



COMUNE DI GENAZZANO
Città metropolitana di Roma Capitale

FUTURA

**LA SCUOLA
PER L'ITALIA DI DOMANI**



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RIQUALIFICAZIONE E MESSA IN SICUREZZA DEL CORPO PALESTRA DELLA SCUOLA MEDIA C.MARCHESI

contributo assegnato con Decreto del Ministero dell'Istruzione n. 45 del 04.08.2022 di approvazione delle graduatorie per l'attuazione di PNRR, MISSIONE 4, Componente 1, Investimento 1.3 finanziato dall'Unione europea - Next Generation EU.

CUP B45E22000000006 CIG 9726504504



PROGETTO DEFINITIVO / ESECUTIVO

Elaborato 06b

**RELAZIONE DI CALCOLO ADEGUAMENTO
SISMICO POST-OPERAM**

SCALA:

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FORMATO

A4

DATA

30/08/2023

CAPOGRUPPO E MANDATARIO

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RELAZIONE DI GEOTECNICA E SULLE FONDAZIONI

Archivio: PALESTRA POST.fnx - Data : 19/07/2023

Oggetto: Adeguamento palestra scuola media

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1 Relazione Geotecnica

1.1 Riferimenti Legislativi

Tutte le operazioni illustrate nel proseguo, relative all'analisi della struttura ed alle verifiche sugli elementi sono state effettuate in piena conformità alle seguenti norme:

D.M. 17/01/2018:

"Norme tecniche per le costruzioni."

Circolare CSLPP N. 7 del 21/01/2019:

"Istruzioni per l'applicazione dell'aggiornamento delle «Norme tecniche per le costruzioni» di cui al decreto ministeriale 17 gennaio 2018."

UNI ENV 1997-1: Eurocodice 7:

"Progettazione geotecnica " - Parte 1: Regole generali."

UNI ENV 1998-5: Eurocodice 8:

"Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici."

1.2 Descrizione dell'opera e degli interventi

Nella presente relazione vengono riportati i risultati delle elaborazioni a carattere geotecnico eseguite per le opere di fondazione da analizzare nell'ambito dei lavori di:

Adeguamento palestra scuola media

I risultati delle indagini effettuate, degli studi eseguiti e delle valutazioni geotecniche operate, parte integrante degli elaborati progettuali relativi ai lavori in oggetto, faranno riferimento per le caratteristiche geotecniche dei terreni di fondazione ai dati riportati nella Relazione geologico-tecnica allegata alla presente.

La presente relazione, basata sul rilevamento geologico e geomorfologico della zona, sull'analisi della letteratura specifica e delle indagini in sito, è tesa alla comprensione delle caratteristiche geologiche e geotecniche di massima dei terreni interessati dal progetto, al fine di poter effettuare valutazioni delle condizioni di stabilità dell'area e dare indicazioni sulle strutture di fondazione e sugli interventi tecnici atti alla risoluzione dei eventuali problemi incontrati.

La presente relazione contiene le considerazioni eseguite dal progettista sulle problematiche relative alle opere di fondazione, in particolare sui problemi geotecnici e sulle scelte tipologiche adottate sulla base di quanto emerso dalle documentazioni disponibili ed inerenti l'opera in oggetto.

TIPOLOGIA FONDAZIONI:

Fondazioni superficiali, quindi del tipo dirette, costituite da un reticolo di travi rovesce, da plinti diretti.

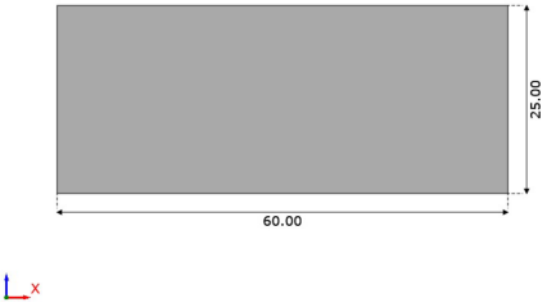
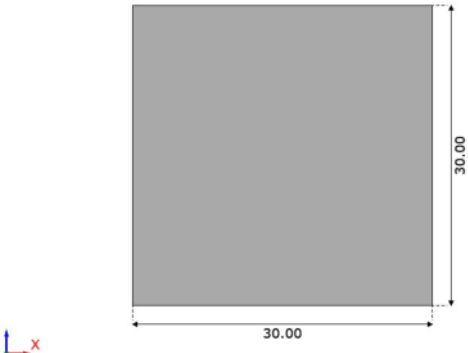
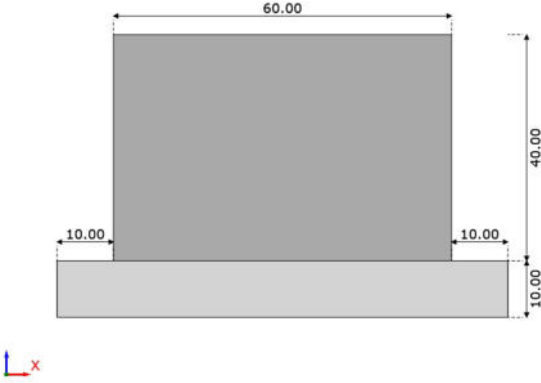
1.3 Descrizione delle fondazioni

Nell'ambito dei lavori in oggetto si sono utilizzate le seguenti tipologie di fondazione: travi rovesce e plinti diretti le cui dimensioni e la loro ubicazione vengono di seguito meglio descritte.

RAPPRESENTAZIONE IN PIANTA DI TUTTI GLI ELEMENTI STRUTTURALI DI FONDAZIONE.

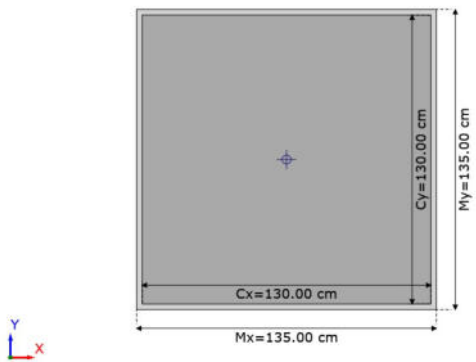
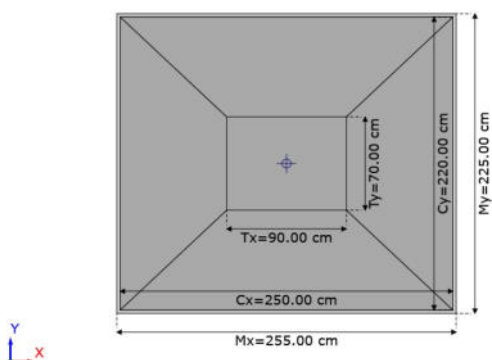
1.3.1 Tipologie di travi di fondazione utilizzate

A : Area della sezione;
 J2 : Momento di inerzia baricentrico intorno all'asse 2 locale;
 J3 : Momento di inerzia baricentrico intorno all'asse 3 locale;
 Jt : Momento di inerzia torsionale;
 Mat. : Nome dei materiali della sezione;
 Peso : Peso per unità di lunghezza della sezione.

Tipologia N.1 (Tip_R (14))	
	<p> A = 150000.00 mm² J2 = 781250000.0 mm⁴ J3 = 4500000000.0 mm⁴ Jt = 2308593750.0 mm⁴ Mat. = Cls esist Peso = 3750.00 N/m </p>
Tipologia N.2 (Tip_R (12))	
	<p> A = 90000.00 mm² J2 = 675000000.0 mm⁴ J3 = 675000000.0 mm⁴ Jt = 1138599943.8 mm⁴ Mat. = Cls esist Peso = 2250.00 N/m </p>
Tipologia N.3 (Tip_F (1))	
	<p> A = 240000.00 mm² J2 = 3200000000.0 mm⁴ J3 = 7200000000.0 mm⁴ Jt = 7449600000.0 mm⁴ Mat. = Cls esist Mat. = Cls nuovo Peso = 6000.00 N/m </p>

1.3.2 Tipologie di plinti/pali di fondazione utilizzate

Mat.	: Nome del materiale del plinto;
Col. str.	: Colonna stratigrafica associata al plinto (vedi "Stratigrafie del terreno");
Hc	: Altezza del corpo del plinto;
Hm	: Altezza del magrone del plinto;
Ht	: Altezza della testa del plinto;
R	: Risega;
Rm	: Risega magrone;
N. pali	: Numero di pali;
Tipo pali	: Tipo di pali;
Dp	: Diametro dei pali;
Prof. cam. pali	: Profilato associato alla camicia dei pali;
Lungh. pali	: Lunghezza dei pali;
Mat. pali	: Nome del materiale dei pali;
Mat. cam. pali	: Nome del materiale della camicia pali;
Bicchieri	: Presenza del bicchiere;
Hb	: Altezza bicchiere;
Sb	: Spessore bicchiere;

Tipologia N.1 (TipPI_M (1))	
	<p>Mat. = Cls esist</p> <p>Mat. = Cls nuovo</p> <p>Col. str. = Colonna 1</p> <p>Hc = 30.00 cm</p> <p>Hm = 5.00 cm</p> <p>Bicchieri = non presente</p>
Tipologia N.2 (TipPI_T (2))	
	<p>Mat. = Cls esist</p> <p>Mat. = Cls nuovo</p> <p>Col. str. = Colonna 1</p> <p>Hc = 40.00 cm</p> <p>Hm = 5.00 cm</p> <p>Ht = 10.00 cm</p> <p>Bicchieri = non presente</p>

1.3.3 Caratteristiche dei Nodi con la loro ubicazione in pianta

I dati seguenti riportano tutte le caratteristiche relative ai nodi che definiscono la struttura ed in modo particolare:

Nodo I. : Etichetta del nodo di input;
 Nodo C. : Numerazione interna del nodo relativa al modello di calcolo;
 Impalcato : Impalcato di appartenenza del nodo;
 Tipo legame : Tipo di legame master-slave di cui il nodo corrente è master;
 Coordinate : Coordinate del nodo secondo il sistema di riferimento globale cartesiano;
 Tip. plinto : Tipologia plinto associata al nodo (vedi "Elenco e caratteristiche dei plinti");
 Tip. rinforzo : Tipologia rinforzo associata al nodo (vedi "Elenco e caratteristiche delle tipologie di rinforzo");
 Master : Nodo MASTER dal quale dipende il nodo corrente;
 Vincoli : Eventuali vincoli esterni del nodo in ognuna delle 6 direzioni:
 Sx : Direzione X rispetto al sistema di riferimento globale;
 Sy : Direzione Y rispetto al sistema di riferimento globale;
 Sz : Direzione Z rispetto al sistema di riferimento globale;
 Rx : Rotazione attorno all'asse X del sistema di riferimento globale;
 Ry : Rotazione attorno all'asse Y del sistema di riferimento globale;
 Rz : Rotazione attorno all'asse Z del sistema di riferimento globale;

I simboli dei vincoli assumono il seguente significato:

L : Non presenza di vincoli;
 P : Valore infinito della rigidezza;
 Valore : Valore della molla applicata al nodo;

Nodo I.	Nodo C.	Impalcato	Tipo legame	Coordinate			Tip. plinto	Tip. rinforzo	Master
				x	y	z			
				[cm]	[cm]	[cm]			
Nodo 1	2	-	-	0.00	0.00	-22.50	2	-	-
Nodo 6	12	-	-	1260.00	0.00	-22.50	2	-	-
Nodo 11	22	-	-	0.00	-474.00	-22.50	2	-	-
Nodo 16	32	-	-	1260.00	-474.00	-22.50	2	-	-
Nodo 21	42	-	-	1875.00	-474.00	-15.00	1	-	-
Nodo 26	51	-	-	0.00	-948.00	-22.50	2	-	-
Nodo 31	61	-	-	1260.00	-948.00	-22.50	2	-	-
Nodo 36	71	-	-	1875.00	-948.00	-15.00	1	-	-
Nodo 41	80	-	-	0.00	-1422.00	-22.50	2	-	-
Nodo 46	90	-	-	1260.00	-1422.00	-22.50	2	-	-
Nodo 51	100	-	-	1875.00	-1422.00	-15.00	1	-	-
Nodo 56	108	1	-	2286.00	-1655.00	0.00	-	-	-
Nodo 61	111	1	-	2695.00	-1655.00	0.00	-	-	-
Nodo 71	118	-	-	0.00	-1896.00	-22.50	2	-	-
Nodo 76	128	-	-	1260.00	-1896.00	-22.50	2	-	-
Nodo 81	138	-	-	1875.00	-1896.00	-15.00	1	-	-
Nodo 86	146	1	-	2286.00	-1987.00	0.00	-	-	-
Nodo 91	149	1	-	2695.00	-1987.00	0.00	-	-	-
Nodo 101	156	-	-	0.00	-2370.00	-22.50	2	-	-
Nodo 106	166	-	-	1260.00	-2370.00	-22.50	2	-	-
Nodo 111	176	-	-	1875.00	-2370.00	-15.00	1	-	-
Nodo 116	185	-	-	346.00	-2370.00	-15.00	1	-	-
Nodo 121	194	-	-	1006.00	-2370.00	-15.00	1	-	-
Nodo 126	203	-	-	346.00	-3030.00	-15.00	1	-	-
Nodo 131	212	-	-	1006.00	-3030.00	-15.00	1	-	-
Nodo 136	221	-	-	1006.00	-2700.00	-15.00	1	-	-
Nodo 141	230	-	-	1875.00	-2700.00	-15.00	1	-	-
Nodo 146	238	1	-	1875.00	-3030.00	0.00	-	-	-
Nodo 151	243	-	-	1495.00	-2700.00	-15.00	1	-	-
Nodo 156	252	-	-	1495.00	-3030.00	-15.00	1	-	-
Nodo 221	273	-	-	630.00	0.00	-15.00	1	-	-
Nodo 226	280	-	-	630.00	-474.00	-15.00	1	-	-
Nodo 231	287	-	-	630.00	-948.00	-15.00	1	-	-
Nodo 236	294	-	-	630.00	-1422.00	-15.00	1	-	-
Nodo 241	301	-	-	630.00	-1896.00	-15.00	1	-	-

Nodo C.	Vincoli					
	Sx	Sy	Sz	Rx	Ry	Rz
	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]

2	L	L	L	L	L	L
12	L	L	L	L	L	L
22	L	L	L	L	L	L
32	L	L	L	L	L	L
42	L	L	L	L	L	L
51	L	L	L	L	L	L
61	L	L	L	L	L	L
71	L	L	L	L	L	L
80	L	L	L	L	L	L
90	L	L	L	L	L	L
100	L	L	L	L	L	L
108	L	L	L	L	L	L
111	L	L	L	L	L	L
118	L	L	L	L	L	L
128	L	L	L	L	L	L
138	L	L	L	L	L	L
146	L	L	L	L	L	L
149	L	L	L	L	L	L
156	L	L	L	L	L	L
166	L	L	L	L	L	L
176	L	L	L	L	L	L
185	L	L	L	L	L	L
194	L	L	L	L	L	L
203	L	L	L	L	L	L
212	L	L	L	L	L	L
221	L	L	L	L	L	L
230	L	L	L	L	L	L
238	L	L	L	L	L	L
243	L	L	L	L	L	L
252	L	L	L	L	L	L
273	L	L	L	L	L	L
280	L	L	L	L	L	L
287	L	L	L	L	L	L
294	L	L	L	L	L	L
301	L	L	L	L	L	L

1.3.4 Caratteristiche delle Travi di fondazione con la loro ubicazione in pianta

La tabella seguente riporta tutte le caratteristiche relative alle aste della struttura ed in modo particolare la colonna:

Asta I.	: Etichetta dell'asta di input;
Asta C.	: Numerazione interna dell'asta relativa al modello di calcolo;
Ni	: Nodo iniziale dell'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
Nf	: Nodo finale dell'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
Gruppo	: Numerazione del gruppo di cui l'asta fa parte;
Imp.	: Impalcato di appartenenza dell'asta;
Tipo	: Funzione dell'asta;
Formulaz.	: Formulazione strutturale dell'asta;
Risposta	: Risposta strutturale dell'asta;
Sez.	: Sezione trasversale associata all'asta (vedi "Elenco e caratteristiche delle sezioni trasversali");
Tip. rinf.	: Tipologia rinforzo associata all'asta (vedi "Elenco e caratteristiche delle tipologie di rinforzo");
Disp.	: Dispositivo antisismico associato all'asta (vedi "Elenco e caratteristiche dei dispositivi antisismici");
Link	: Elemento link associato all'asta (vedi "Elenco e caratteristiche degli elementi link");
Cl. serv.	: Classe di servizio (solo per aste in legno);
L	: Lunghezza teorica (nodo-nodo) dell'asta;
Kw1	: Modulo di Winkler in direzione 1 locale;
Kw2	: Modulo di Winkler in direzione 2 locale;
Kw3	: Modulo di Winkler in direzione 3 locale;
Qult	: Carico ultimo;
Z50	: Cedimento 50%;
Tipo	: Coesivo/Incoerente;

Vincoli interni

- S1 : Grado di rigidezza ($0 \div 1$) o Valore di rigidezza dello spostamento lungo la direzione 1 locale;
 S2 : Grado di rigidezza ($0 \div 1$) o Valore di rigidezza dello spostamento lungo la direzione 2 locale;
 S3 : Grado di rigidezza ($0 \div 1$) o Valore di rigidezza dello spostamento lungo la direzione 3 locale;
 R1 : Grado di rigidezza ($0 \div 1$) o Valore di rigidezza della rotazione intorno alla direzione 1 locale;
 R2 : Grado di rigidezza ($0 \div 1$) o Valore di rigidezza della rotazione intorno alla direzione 2 locale;
 R3 : Grado di rigidezza ($0 \div 1$) o Valore di rigidezza della rotazione intorno alla direzione 3 locale;

Asta I.	Asta C.	Ni	Nf	Gruppo	Imp.	Tipo	Formulaz.	Risposta	Sez.	Tip. rinf.	Disp.	Link	Cl. serv.	L [cm]
Asta 1 (11-1)	31	21	1	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 2 (1-221)	32	1	272	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 3 (6-16)	33	11	31	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 4 (221-6)	34	272	11	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 5 (26-11)	35	50	21	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 6 (11-226)	36	21	279	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 7 (16-21)	37	31	41	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 8 (16-31)	38	31	60	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 9 (226-16)	39	279	31	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 10 (21-36)	40	41	70	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 11 (41-26)	41	79	50	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 12 (26-231)	42	50	286	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 13 (31-36)	43	60	70	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 14 (31-46)	44	60	89	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 15 (231-31)	45	286	60	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 16 (36-51)	46	70	99	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 17 (71-41)	47	117	79	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 18 (41-236)	48	79	293	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 19 (46-51)	49	89	99	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 20 (46-76)	50	89	127	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 21 (236-46)	51	293	89	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 23 (61-56)	53	111	108	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	409.00
Asta 25 (56-86)	55	108	146	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	332.00
Asta 26 (91-61)	56	149	111	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	332.00
Asta 28 (101-71)	58	155	117	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00

Asta 29 (71-241)	59	117	300	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 30 (76-81)	60	127	137	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 31 (76-106)	61	127	165	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 32 (241-76)	62	300	127	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 34 (86-91)	64	146	149	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	409.00
Asta 37 (116-101)	67	184	155	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	346.00
Asta 38 (106-111)	68	165	175	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 39 (121-106)	69	193	165	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	254.00
Asta 40 (111-141)	70	175	229	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 41 (116-121)	71	184	193	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	660.00
Asta 42 (126-116)	72	202	184	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	660.00
Asta 43 (121-136)	73	193	220	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 44 (131-126)	74	211	202	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	660.00
Asta 45 (136-131)	75	220	211	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 46 (156-131)	76	251	211	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	489.00
Asta 47 (136-151)	77	220	242	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	489.00
Asta 48 (146-141)	78	238	229	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	330.00
Asta 49 (151-141)	79	242	229	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	380.00
Asta 50 (156-146)	80	251	238	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	380.00

Asta C.	Kw1 [daN/cm³]	Kw2 [daN/cm³]	Kw3 [daN/cm³]	Qult [N/mm²]	Z50 [cm]	Tipo
53	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
55	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
56	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
64	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
78	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
80	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-

(*) Valore medio della distribuzione variabile con la profondità

Vincoli Interni per grado/valore
Tutte le aste presenti nel modello risultano perfettamente incastrate

1.3.5 Caratteristiche delle Piastre di fondazione con la loro ubicazione in pianta

La tabella seguente riporta tutte le caratteristiche relative alle piastre della struttura:

Piastra I.	: Etichetta della piastra di input;
Piastra C.	: Numerazione interna della piastra relativa al modello di calcolo;
Imp.	: Impalcato al quale appartiene la piastra;
Nodi	: Nodi di calcolo del contorno della piastra (vedi "Nodo C." in "Caratteristiche dei Nodi");
Gruppo	: Numerazione del gruppo di cui la piastra fa parte;
Tipo elem.	: Tipo di elemento (parete o piastra);
Kw1	: Modulo di Winkler in direzione 1 locale;
Kw2	: Modulo di Winkler in direzione 2 locale;
Kw3	: Modulo di Winkler in direzione 3 locale;
Qult	: Carico ultimo;
Z50	: Cedimento 50%;
Tipo	: Coesivo/Incoerente;

Piastra I.	Piastra C.	Imp.	Nodi	Gruppo	Tipo elem.
Plinto Nodo 1	1	-	3 - 4 - 5 - 6	-	Corpo plinto
Plinto Nodo 6	2	-	13 - 14 - 15 - 16	-	Corpo plinto
Plinto Nodo 11	3	-	23 - 24 - 25 - 26	-	Corpo plinto
Plinto Nodo 16	4	-	33 - 34 - 35 - 36	-	Corpo plinto
Plinto Nodo 21	5	-	43 - 44 - 45 - 46	-	Corpo plinto
Plinto Nodo 26	6	-	52 - 53 - 54 - 55	-	Corpo plinto
Plinto Nodo 31	7	-	62 - 63 - 64 - 65	-	Corpo plinto
Plinto Nodo 36	8	-	72 - 73 - 74 - 75	-	Corpo plinto
Plinto Nodo 41	9	-	81 - 82 - 83 - 84	-	Corpo plinto
Plinto Nodo 46	10	-	91 - 92 - 93 - 94	-	Corpo plinto
Plinto Nodo 51	11	-	101 - 102 - 103 - 104	-	Corpo plinto
Plinto Nodo 71	12	-	119 - 120 - 121 - 122	-	Corpo plinto
Plinto Nodo 76	13	-	129 - 130 - 131 - 132	-	Corpo plinto
Plinto Nodo 81	14	-	139 - 140 - 141 - 142	-	Corpo plinto
Plinto Nodo 101	15	-	157 - 158 - 159 - 160	-	Corpo plinto
Plinto Nodo 106	16	-	167 - 168 - 169 - 170	-	Corpo plinto
Plinto Nodo 111	17	-	177 - 178 - 179 - 180	-	Corpo plinto
Plinto Nodo 116	18	-	186 - 187 - 188 - 189	-	Corpo plinto
Plinto Nodo 121	19	-	195 - 196 - 197 - 198	-	Corpo plinto
Plinto Nodo 126	20	-	204 - 205 - 206 - 207	-	Corpo plinto
Plinto Nodo 131	21	-	213 - 214 - 215 - 216	-	Corpo plinto
Plinto Nodo 136	22	-	222 - 223 - 224 - 225	-	Corpo plinto
Plinto Nodo 141	23	-	231 - 232 - 233 - 234	-	Corpo plinto
Plinto Nodo 151	24	-	244 - 245 - 246 - 247	-	Corpo plinto
Plinto Nodo 156	25	-	253 - 254 - 255 - 256	-	Corpo plinto
Plinto Nodo 221	26	-	274 - 275 - 276 - 277	-	Corpo plinto
Plinto Nodo 226	27	-	281 - 282 - 283 - 284	-	Corpo plinto
Plinto Nodo 231	28	-	288 - 289 - 290 - 291	-	Corpo plinto
Plinto Nodo 236	29	-	295 - 296 - 297 - 298	-	Corpo plinto
Plinto Nodo 241	30	-	302 - 303 - 304 - 305	-	Corpo plinto

Piastra C.	Kw1 [daN/cm³]	Kw2 [daN/cm³]	Kw3 [daN/cm³]	Qult	Z50	Tipo
1	2.50	2.50	1.25	-	-	-
2	2.50	2.50	1.25	-	-	-
3	2.50	2.50	1.25	-	-	-
4	2.50	2.50	1.25	-	-	-
5	2.50	2.50	1.25	-	-	-
6	2.50	2.50	1.25	-	-	-
7	2.50	2.50	1.25	-	-	-
8	2.50	2.50	1.25	-	-	-
9	2.50	2.50	1.25	-	-	-
10	2.50	2.50	1.25	-	-	-
11	2.50	2.50	1.25	-	-	-
12	2.50	2.50	1.25	-	-	-
13	2.50	2.50	1.25	-	-	-

14	2.50	2.50	1.25	-	-	-
15	2.50	2.50	1.25	-	-	-
16	2.50	2.50	1.25	-	-	-
17	2.50	2.50	1.25	-	-	-
18	2.50	2.50	1.25	-	-	-
19	2.50	2.50	1.25	-	-	-
20	2.50	2.50	1.25	-	-	-
21	2.50	2.50	1.25	-	-	-
22	2.50	2.50	1.25	-	-	-
23	2.50	2.50	1.25	-	-	-
24	2.50	2.50	1.25	-	-	-
25	2.50	2.50	1.25	-	-	-
26	2.50	2.50	1.25	-	-	-
27	2.50	2.50	1.25	-	-	-
28	2.50	2.50	1.25	-	-	-
29	2.50	2.50	1.25	-	-	-
30	2.50	2.50	1.25	-	-	-

La tabella seguente riporta le caratteristiche delle sezioni trasversali associate alle piastre:

N. strati : Numero totale degli strati della piastra;
 Spess. tot. : Spessore totale della piastra;
 Tip. : Tipologia associata alla piastra (vedi "Elenco e caratteristiche delle tipologie di piastra");
 Materiale : Materiale della piastra;
 Classe serv. : Classe di servizio (solo per elementi in legno);
 E : Modulo Young;
 n : Coefficiente di Poisson;
 ρ : Densità;

Piastra C.	N. strati	Spess. tot. [cm]	Tip.	Materiale	Cl.serv.	E [N/mm ²]	n	ρ [Kg/m ³]
1	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
2	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
3	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
4	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
5	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
6	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
7	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
8	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
9	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
10	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
11	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
12	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
13	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
14	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
15	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
16	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
17	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
18	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
19	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
20	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
21	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
22	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
23	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
24	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
25	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
26	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
27	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
28	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
29	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
30	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009

1.4 Relazione Geotecnica (DM 17/01/2018 CAP. 6 e CIRC. CSLPP n. 7 del 21/01/2019)

1.4.1 Problemi geotecnici e scelte tipologiche

La caratterizzazione geotecnica dei terreni di fondazione compresi nel volume significativo, ovvero in quella parte di sottosuolo che viene influenzata direttamente o indirettamente dalle opere in oggetto, viene riportata in dettaglio nella relazione geologico-tecnica allegata.

Vengono di seguito indicati i parametri fondamentali per la valutazione della capacità portante del terreno di fondazione e le scelte tipologiche adottate per il dimensionamento delle opere di fondazione, non avendo riscontrato altre particolari problematiche di tipo geotecnico.

Al fine d'identificare la categoria di sottosuolo, tramite la conoscenza dello spessore e natura dei diversi strati che compongono il terreno sottostante il piano di posa delle fondazioni, per il dimensionamento strutturale e geotecnico delle stesse sono state effettuate delle indagini in sito ubicate nell'area oggetto dell'intervento.

L'area in esame è sostanzialmente pianeggiante, caratterizzata da un fattore di amplificazione corrispondente alla categoria topografica T1, pertanto non si osservano variazioni di quota della superficie topografica degne di valutazioni particolari.

1.4.2 Descrizione del programma delle indagini e delle prove geotecniche

Per definire la stratigrafia di progetto, dei terreni di sedime dei lavori in oggetto e per acquisire i parametri fisico-meccanici dei terreni in esame è stata condotta sull'area interessata dall'intervento di progetto un'adeguata campagna di indagini.

Il programma delle indagini e delle prove con l'ubicazione delle stesse è stato definito a seguito di un attento sopralluogo dell'area in oggetto e risulta più ampiamente descritto nella relazione geologico-tecnica allegata.

1.4.3 Caratterizzazione fisico meccanica dei terreni e definizione dei valori caratteristici dei parametri geotecnici

- Caratteristiche litostratigrafiche

L'analisi dei risultati ottenuti dalle indagini per la caratterizzazione della categoria di sottosuolo sono meglio indicati nella relazione geologico-tecnica allegata. Per quanto riguarda l'aspetto geologico a seguito il rilevamento di un significativo intorno della zona in esame si è riscontrata la presenza delle seguenti successioni litostratigrafiche nelle relative sezioni geologiche (colonne stratigrafiche):

Colonna : Nome della colonna stratigrafica usata;
 Nome dello strato : Nome dello strato appartenente la colonna stratigrafica usata;
 Descrizione dello strato : Descrizione estesa dello strato;

Colonna	Strato	Descrizione
Colonna 1	Strato1	

- Caratteristiche fisico meccaniche dei terreni di fondazione

Nell'ambito del progetto si è fatto uso delle seguenti colonne stratigrafiche:

Caratteristiche delle colonne stratigrafiche:

Colonna : Nome della colonna stratigrafica;
 Falda : Presenza della falda;
 Prof. Falda : Profondità della falda (se è presente);
 Quota piano campagna : Quota piano campagna;
 N. Strati : Numero degli strati della colonna stratigrafica.
 RQD : (Rock Quality Designation) grado di fratturazione dell'ammasso roccioso in [0-1]

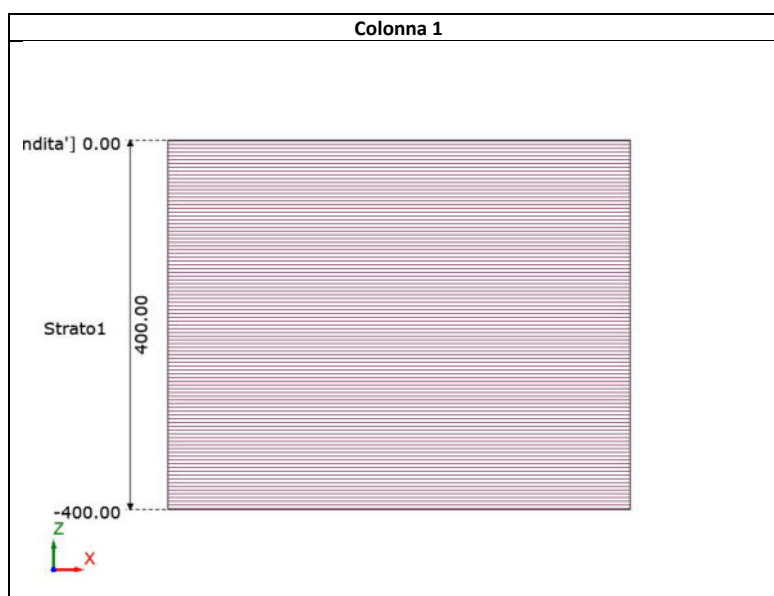
Colonna	Falda	Prof. Falda [cm]	Quota piano campagna [cm]	N. Strati	RQD
Colonna 1	Non presente	-	-170	1	0.00

Caratteristiche degli strati appartenenti alle colonne stratigrafiche:

Colonna : Nome della colonna stratigrafica;
 Strato : Nome dello strato appartenente la colonna stratigrafica;
 Spess. : Spessore dello strato;
 Peso : Peso dell'unità di volume dello strato;
 Peso sat. : Peso dell'unità di volume saturo dello strato;
 NSPT : Numero di colpi medio misurato nello strato;
 Qc : Resistenza alla punta media misurata nello strato;
 ϕ : Angolo di attrito del terreno;
 δ : Angolo di attrito terreno/struttura;
 α : Inclinazione dello strato;
 c' : Coesione drenata del terreno;
 cu' : Coesione non drenata del terreno;
 E : Modulo elastico del terreno;
 G : Modulo di taglio del terreno;
 ν^o : Coefficiente di Poisson;
 Eed : Modulo Edometrico;
 OCR : Grado di sovraconsolidazione del terreno.

Colonna 1															
Strato	Spess. [cm]	Peso [kN/m ³]	Peso sat. [kN/m ³]	NSPT	Qc [N/mm ²]	ϕ [°]	δ [°]	α [°]	c' [N/mm ²]	cu' [N/mm ²]	E [N/mm ²]	G [N/mm ²]	ν^o	Eed [N/mm ²]	OCR
Strato 1	400.00	14.50	8.00	13.00	1.50	34.80	23.00	0.00	0.00	0.087	15.60	83.026	0.35	6.50	1.00

- Sezioni Geologiche:



1.4.4 Caratterizzazione sismica della categoria di sottosuolo, modelli geotecnici di sottosuolo e metodi di analisi

La categoria di sottosuolo assunta per il sito in oggetto è : **C**

L'interazione terreno struttura viene modellata applicando il modello di Winkler, il quale caratterizza il sottosuolo con una relazione lineare fra il cedimento in un punto della superficie limite e la pressione agente nello stesso punto, indipendentemente da altri carichi applicati in punti diversi. Si assume cioè che:

$$p = k_v w$$

dove K_v è detta costante di sottofondo o coefficiente di reazione del terreno e w è l'abbassamento fondazione tale da comprimere il terreno sottostante e p è la pressione agente nello stesso punto.

Il valore di tale coefficiente k_v adottato nel lavoro in oggetto ($k_v = 5.00 \text{ daN/cm}^3$) è stato desunto con riferimento ai dati riportati in relazione geologico-tecnica allegata e comparato con i valori ammessi nella letteratura tecnica per terreni di fondazione con caratteristiche fisico-meccaniche simili alla categoria di sottosuolo in oggetto.

Tale modello viene esteso anche alla componente orizzontale dello spostamento, utilizzando un valore della costante orizzontale pari a $k_o = 2.50 \text{ daN/cm}^3$.

Le travi rovesce di fondazione vengono modellate utilizzando un elemento finito di tipo BEAM vincolato attraverso delle molle traslazionali e rotazionali diffuse atte a simulare l'interazione terreno-fondazione.

In pratica viene aggiunto alla matrice di rigidezza elastica dell'asta il contributo delle molle ripartite sulle facce della fondazione. I valori di tali contributi sono calcolate computando i coefficienti funzione delle aree di contatto terreno-fondazione. Tutti i calcoli sono effettuati sulla base di cinematismi unitari.

Questo elemento finito possiede 12 gradi di libertà in quanto i due nodi di estremità hanno 6 gradi di libertà ciascuno: 3 alla traslazione e 3 alla rotazione.

Per i plinti inclusi nel modello Fem il software discretizzerà ogni plinto con elementi di tipo SHELL per il corpo del plinto mentre se presenti i pali, questi verranno discretizzati in diversi elementi interagenti con il suolo di fondazione.

Per ogni plinto (alto o basso) il software genererà in maniera automatica dei collegamenti pilastro - lati esterni del plinto ed in presenza di pali anche dei collegamenti tra la testa dei singoli pali e tutti questi collegamenti saranno oggetto di opportune verifiche.

Ogni palo sarà discretizzato in un numero adeguato di elementi lungo la lunghezza del palo e ad ogni elemento saranno assegnate dei moduli di reazione con il terreno laterale interagente con la struttura di fondazione in funzione della stratigrafia assegnata al plinto/palo.

Nel caso di ipotesi di vincolo fisso base palo, il software invece di inserire una molla alla base del palo di opportuna rigidità inserirà un vincolo perfetto.

1.4.5 Tensioni sul Terreno

I dati seguenti riportano i valori delle tensioni massime esercitate dalla fondazione sul terreno.

1.4.5.1 Tensioni sul Terreno Travi di Fondazione

Asta : Numerazione dell'asta (vedi "Asta C." in "Caratteristiche delle Aste");
 X : Distanza dal nodo iniziale misurata lungo l'asse dell'asta;
 Tensioni (σ_T) : Valore della tensione dovuta alla pressione dell'asta di fondazione;

Tensioni Terreno									
		SLU		SLV		SLD	SLE		
Asta	X [cm]	A1	A2	A1	A2		Caratt.	Freq.	Q. Perm.
		σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]
53	0.00	38.392	31.109	63.42	63.42	52.461	27.873	25.723	24.864
53	204.50	20.069	16.156	33.335	33.335	28.716	14.681	13.74	13.364
53	409.00	122.409	100.301	113.785	113.785	101.077	87.697	79.00	75.521
55	0.00	122.409	100.301	113.785	113.785	101.077	87.697	79.00	75.521
55	166.00	82.276	67.341	57.229	57.229	55.588	59.024	53.289	50.995
55	332.00	116.715	95.623	112.013	112.013	99.713	83.63	75.42	72.136
56	0.00	35.911	29.067	71.796	71.796	60.477	26.105	24.213	23.456
56	166.00	23.807	19.181	28.465	28.465	25.149	17.399	16.222	15.752
56	332.00	38.392	31.109	63.42	63.42	52.461	27.873	25.723	24.864
64	0.00	116.715	95.623	112.013	112.013	99.713	83.63	75.42	72.136
64	204.50	18.185	14.603	32.525	32.525	26.618	13.342	12.566	12.256
64	409.00	35.911	29.067	71.796	71.796	60.477	26.105	24.213	23.456
78	0.00	0.00	0.00	130.972	130.972	85.297	0.00	0.00	0.00
78	165.00	110.059	89.363	152.641	152.641	133.744	79.71	72.814	70.056
78	330.00	327.468*	267.695*	360.025*	360.025*	307.613*	235.271*	211.823*	202.444*
80	0.00	261.567	212.571	234.14	234.14	220.134	189.241	169.53	161.646
80	190.00	65.625	52.807	88.348	88.348	76.732	48.032	43.947	42.313
80	380.00	0.00	0.00	130.972	130.972	85.297	0.00	0.00	0.00

(*) valore massimo.

1.4.5.2 Tensioni sul Terreno Piastre di Fondazione

Piastra : Numerazione della piastra (vedi "Piastra C." in "Caratteristiche delle Piastre");
 Tensioni (σ_T) : Valore della tensione dovuta alla pressione della piastra di fondazione;

Tensioni Terreno								
Piastra	SLU		SLV		SLD	SLE		
	A1	A2	A1	A2		Caratt.	Freq.	Q. Perm.
	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]
1	128.815	104.417	270.905	270.905	186.591	93.479	85.814	82.748
2	137.524	111.586	262.59	262.59	194.65	99.685	91.43	88.128
3	167.637	137.848	263.376	263.376	196.65	121.95	105.231	100.595
4	213.606	175.049	249.425	249.425	192.339	154.038	132.302	125.895
5	217.165	173.493	309.113	309.113	253.668	151.834	136.28	130.058
6	171.037	139.632	231.179	231.179	180.841	123.078	112.197	107.183
7	239.627	196.761	244.712	244.712	201.747	171.242	151.348	142.838
8	270.089	223.816	307.945	307.945	262.732*	194.181	172.952	159.427
9	170.784	139.422	217.706	217.706	174.986	122.898	112.007	107.008
10	243.292	199.83	237.201	237.201	196.063	173.797	153.392	144.688
11	296.349*	244.064*	317.906*	317.906*	257.911	212.23*	188.215*	173.758*
12	167.984	138.015	227.299	227.299	180.078	122.37	110.887	101.163

13	241.471	194.118	241.786	241.786	197.072	170.56	150.325	142.262
14	285.59	232.936	305.179	305.179	234.413	201.696	179.347	172.244
15	149.89	122.349	241.321	241.321	174.126	108.869	99.997	91.419
16	203.164	166.771	238.847	238.847	186.971	146.128	130.316	123.492
17	191.107	157.109	238.258	238.258	182.572	136.37	123.831	117.972
18	264.666	217.395	259.924	259.924	207.601	187.246	165.32	157.019
19	242.975	200.194	282.513	282.513	216.327	172.914	152.248	143.982
20	254.031	208.416	302.726	302.726	244.966	181.716	159.762	150.981
21	197.832	161.897	239.578	239.578	185.909	144.681	128.04	121.384
22	239.561	197.087	246.878	246.878	199.504	172.264	150.929	137.437
23	109.343	89.469	136.752	136.752	107.002	73.71	68.407	65.32
24	176.174	144.55	175.106	175.106	143.212	126.011	114.158	108.209
25	91.152	74.222	103.929	103.929	86.95	65.796	58.778	55.97
26	173.016	142.134	184.762	184.762	152.716	123.569	105.874	98.797
27	267.693	222.871	213.552	213.552	182.064	185.423	153.311	140.466
28	271.672	227.072	207.911	207.911	181.347	193.319	160.666	147.427
29	272.242	227.594	206.133	206.133	182.587	193.757	161.034	147.689
30	272.267	225.804	210.194	210.194	177.52	193.162	155.381	142.355

(*) valore massimo.

1.4.6 Verifica della sicurezza e delle prestazioni: identificazione stati limite

Le verifiche della sicurezza in fondazione sono condotte nei riguardi di tutti gli stati limite previsti dalla normativa vigente.

Le verifiche nei riguardi dello stato limite ultimo (SLU) previste dalla Normativa ed eseguite sono:

STR - raggiungimento della resistenza degli elementi strutturali, compresi gli elementi di fondazione;

GEO - raggiungimento della resistenza del terreno interagente con la struttura con sviluppo di meccanismi di collasso dell'insieme terreno-struttura;

Verifiche STR: le verifiche di resistenza degli elementi strutturali di fondazione sono state eseguite contestualmente alla verifica degli elementi strutturali in elevazione. I risultati e l'esito delle relative verifiche sono riportate negli appositi elaborati allegati alla presente relazione;

Verifiche GEO: le verifiche di resistenza del terreno interagente con la struttura sono condotte confrontando i valori di resistenza con quelli di progetto.

La verifiche saranno condotte in funzione degli SLU, cioè quelli che possono mettere fuori servizio le strutture di fondazione ed in funzione degli SLE, atti a garantire le prestazioni dell'opera durante il suo esercizio.

Per ogni stato limite si verificherà che verrà rispettata la condizione:

$$E_d < R_d$$

dove E_d è il valore di progetto dell'azione o dell'effetto dell'azione e R_d è il valore di progetto della resistenza del sistema geotecnico.

Verifiche GEO: Approcci progettuali e valori di progetto dei parametri geotecnici.

Nodi con plinti

Nodo : Numerazione del nodo (vedi "Nodo C." in "Caratteristiche dei Nodi");

Approccio : Approccio di progetto;

Teoria carico limite : Teoria di calcolo carico limite terreno di fondazione;

Nodo	Approccio di progetto	Teoria carico limite
1	Approccio 2	Brinch-Hansen
11	Approccio 2	Brinch-Hansen
21	Approccio 2	Brinch-Hansen
31	Approccio 2	Brinch-Hansen
41	Approccio 2	Brinch-Hansen
50	Approccio 2	Brinch-Hansen

60	Approccio 2	Brinch-Hansen
70	Approccio 2	Brinch-Hansen
79	Approccio 2	Brinch-Hansen
89	Approccio 2	Brinch-Hansen
99	Approccio 2	Brinch-Hansen
117	Approccio 2	Brinch-Hansen
127	Approccio 2	Brinch-Hansen
137	Approccio 2	Brinch-Hansen
155	Approccio 2	Brinch-Hansen
165	Approccio 2	Brinch-Hansen
175	Approccio 2	Brinch-Hansen
184	Approccio 2	Brinch-Hansen
193	Approccio 2	Brinch-Hansen
202	Approccio 2	Brinch-Hansen
211	Approccio 2	Brinch-Hansen
220	Approccio 2	Brinch-Hansen
229	Approccio 2	Brinch-Hansen
242	Approccio 2	Brinch-Hansen
251	Approccio 2	Brinch-Hansen
272	Approccio 2	Brinch-Hansen
279	Approccio 2	Brinch-Hansen
286	Approccio 2	Brinch-Hansen
293	Approccio 2	Brinch-Hansen
300	Approccio 2	Brinch-Hansen

Travi di fondazione

Asta : Numerazione dell'asta (vedi "Asta C." in "Caratteristiche delle Travi di Fondazione");
 Approccio : Approccio di progetto;
 Teoria carico limite : Teoria di calcolo carico limite terreno di fondazione;

Asta	Approccio di progetto	Teoria carico limite
53	Approccio 2	Brinch-Hansen
55	Approccio 2	Brinch-Hansen
56	Approccio 2	Brinch-Hansen
64	Approccio 2	Brinch-Hansen
78	Approccio 2	Brinch-Hansen
80	Approccio 2	Brinch-Hansen

1.4.7 Teoria di calcolo capacità portante fondazioni superficiali

Il collasso per carico limite dell'insieme fondazione-terreno è stato effettuato seguendo le seguenti teorie:

Brinch Hansen che tiene conto:

- della forma della fondazione;
- della profondità del piano di posa della fondazione;
- dell'inclinazione del carico sulla fondazione;
- dell'eccentricità del carico;
- dell'inclinazione del piano di posa della fondazione;
- dell'inclinazione del piano di campagna;
- dell'effetto inerziale nella fondazione;
- dell'effetto cinematico del sottosuolo;

Si riportano di seguito le formule considerate nelle varie colonne stratigrafiche assegnate ai fili fissi:

Il carico limite si ottiene dalla seguente espressione:

$$q_{lim} = 0.5 * B' * \gamma_2 * N_\gamma * s_\gamma * d_\gamma * i_\gamma * g_\gamma * b_\gamma * z_\gamma * e_{\gamma k} * e_{\gamma i} + c * N_c * s_c * d_c * i_c * g_c * b_c * z_c + (q + \gamma_1 * D) * N_q * s_q * d_q * i_q * g_q * b_q * z_q$$

dove:

$$B' = B - 2 * eB;$$

- B : lato minore della fondazione;
- eB : eccentricità del carico lungo B ;
- D : profondità del piano di posa della fondazione;
- γ_1 : peso del terreno sopra il piano di posa della fondazione;
- γ_2 : peso del terreno sotto il piano di posa della fondazione;
- c : coesione del terreno;
- q : carico uniformemente distribuito ai lati della fondazione;

2 Relazione sulle Fondazioni

2.1 Riferimenti Legislativi

Tutte le operazioni illustrate nel proseguo, relative all'analisi della struttura ed alle verifiche sugli elementi sono state effettuate in piena conformità alle seguenti norme:

D.M. 17/01/2018:

"Norme tecniche per le costruzioni."

Circolare CSLLPP N. 7 del 21/01/2019:

"Istruzioni per l'applicazione dell'aggiornamento delle «Norme tecniche per le costruzioni» di cui al decreto ministeriale 17 gennaio 2018."

UNI ENV 1997-1: Eurocodice 7:

"Progettazione geotecnica " - Parte 1: Regole generali."

UNI ENV 1998-5: Eurocodice 8:

"Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici."

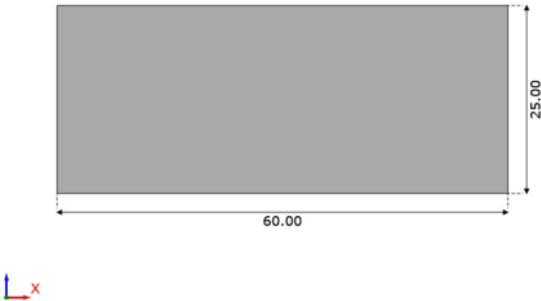
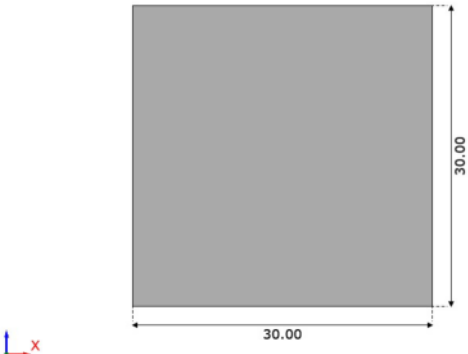
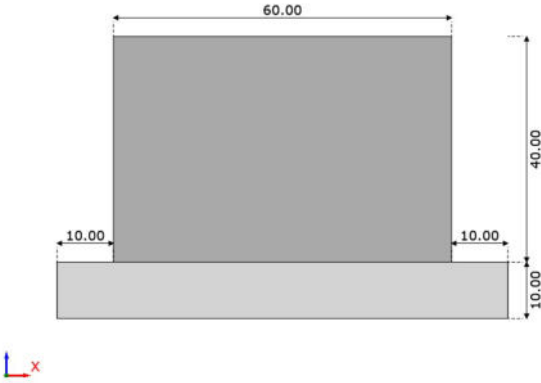
2.2 Descrizione delle fondazioni

Nell'ambito dei lavori in oggetto si sono utilizzate le seguenti tipologie di fondazione: travi rovesce e plinti diretti le cui dimensioni e la loro ubicazione vengono di seguito meglio descritte.

RAPPRESENTAZIONE IN PIANTA DI TUTTI GLI ELEMENTI STRUTTURALI DI FONDAZIONE.

2.2.1 Tipologie di travi di fondazione utilizzate

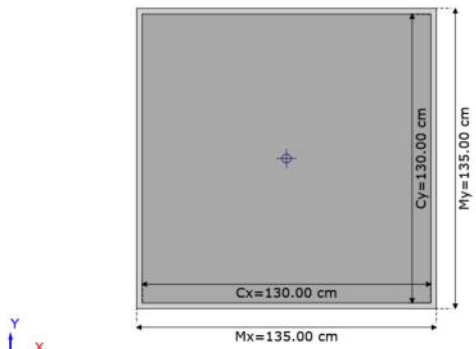
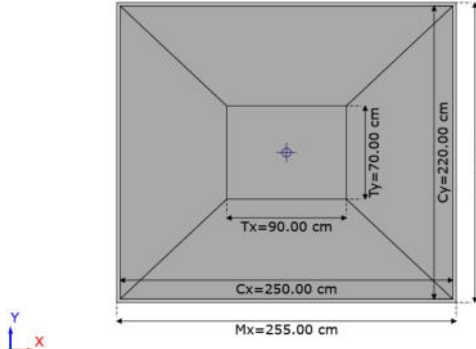
A	: Area della sezione;
J2	: Momento di inerzia baricentrico intorno all'asse 2 locale;
J3	: Momento di inerzia baricentrico intorno all'asse 3 locale;
Jt	: Momento di inerzia torsionale;
Mat.	: Nome dei materiali della sezione;
Peso	: Peso per unità di lunghezza della sezione.

Tipologia N.1 (Tip_R (14))	
	<p> A = 150000.00 mm² J2 = 781250000.0 mm⁴ J3 = 4500000000.0 mm⁴ Jt = 2308593750.0 mm⁴ Mat. = Cls esist Peso = 3750.00 N/m </p>
Tipologia N.2 (Tip_R (12))	
	<p> A = 90000.00 mm² J2 = 675000000.0 mm⁴ J3 = 675000000.0 mm⁴ Jt = 1138599943.8 mm⁴ Mat. = Cls2 Peso = 2250.00 N/m </p>
Tipologia N.3 (Tip_F (1))	
	<p> A = 240000.00 mm² J2 = 3200000000.0 mm⁴ J3 = 7200000000.0 mm⁴ Jt = 7449600000.0 mm⁴ Mat. = Cls esist Mat. = Cls nuovo Peso = 6000.00 N/m </p>

2.2.2 Tipologie di plinti/pali di fondazione utilizzate

Mat.	: Nome del materiale del plinto;
Col. str.	: Colonna stratigrafica associata al plinto (vedi "Stratigrafie del terreno");
Hc	: Altezza del corpo del plinto;
Hm	: Altezza del magrone del plinto;
Ht	: Altezza della testa del plinto;

R : Risega;
 Rm : Risega magrone;
 N. pali : Numero di pali;
 Tipo pali : Tipo di pali;
 Dp : Diametro dei pali;
 Prof. cam. pali : Profilato associato alla camicia dei pali;
 Lungh. pali : Lunghezza dei pali;
 Mat. pali : Nome del materiale dei pali;
 Mat. cam. pali : Nome del materiale della camicia pali;
 Bicchiere : Presenza del bicchiere;
 Hb : Altezza bicchiere;
 Sb : Spessore bicchiere;

Tipologia N.1 (TipPI_M (1))	
	<p>Mat. = Cls esist Col. str. = Colonna 1 Hc = 30.00 cm Hm = 5.00 cm Bicchiere = non presente</p>
Tipologia N.2 (TipPI_T (2))	
	<p>Mat. = Cls esist Col. str. = Colonna 1 Hc = 40.00 cm Hm = 5.00 cm Ht = 10.00 cm Bicchiere = non presente</p>

2.2.3 Caratteristiche dei Nodi con la loro ubicazione in pianta

I dati seguenti riportano tutte le caratteristiche relative ai nodi che definiscono la struttura ed in modo particolare:

Nodo I. : Etichetta del nodo di input;
 Nodo C. : Numerazione interna del nodo relativa al modello di calcolo;
 Impalcato : Impalcato di appartenenza del nodo;
 Tipo legame : Tipo di legame master-slave di cui il nodo corrente è master;
 Coordinate : Coordinate del nodo secondo il sistema di riferimento globale cartesiano;
 Tip. plinto : Tipologia plinto associata al nodo (vedi "Elenco e caratteristiche dei plinti");

Tip. rinforzo : Tipologia rinforzo associata al nodo (vedi "Elenco e caratteristiche delle tipologie di rinforzo");
 Master : Nodo MASTER dal quale dipende il nodo corrente;
 Vincoli : Eventuali vincoli esterni del nodo in ognuna delle 6 direzioni:
 Sx : Direzione X rispetto al sistema di riferimento globale;
 Sy : Direzione Y rispetto al sistema di riferimento globale;
 Sz : Direzione Z rispetto al sistema di riferimento globale;
 Rx : Rotazione attorno all'asse X del sistema di riferimento globale;
 Ry : Rotazione attorno all'asse Y del sistema di riferimento globale;
 Rz : Rotazione attorno all'asse Z del sistema di riferimento globale;

I simboli dei vincoli assumono il seguente significato:

L : Non presenza di vincoli;
 P : Valore infinito della rigidità;
 Valore : Valore della molla applicata al nodo;

Nodo I.	Nodo C.	Impalcato	Tipo legame	Coordinate			Tip. plinto	Tip. rinforzo	Master
				x	y	z			
				[cm]	[cm]	[cm]			
Nodo 1	2	-	-	0.00	0.00	-22.50	2	-	-
Nodo 6	12	-	-	1260.00	0.00	-22.50	2	-	-
Nodo 11	22	-	-	0.00	-474.00	-22.50	2	-	-
Nodo 16	32	-	-	1260.00	-474.00	-22.50	2	-	-
Nodo 21	42	-	-	1875.00	-474.00	-15.00	1	-	-
Nodo 26	51	-	-	0.00	-948.00	-22.50	2	-	-
Nodo 31	61	-	-	1260.00	-948.00	-22.50	2	-	-
Nodo 36	71	-	-	1875.00	-948.00	-15.00	1	-	-
Nodo 41	80	-	-	0.00	-1422.00	-22.50	2	-	-
Nodo 46	90	-	-	1260.00	-1422.00	-22.50	2	-	-
Nodo 51	100	-	-	1875.00	-1422.00	-15.00	1	-	-
Nodo 56	108	1	-	2286.00	-1655.00	0.00	-	-	-
Nodo 61	111	1	-	2695.00	-1655.00	0.00	-	-	-
Nodo 71	118	-	-	0.00	-1896.00	-22.50	2	-	-
Nodo 76	128	-	-	1260.00	-1896.00	-22.50	2	-	-
Nodo 81	138	-	-	1875.00	-1896.00	-15.00	1	-	-
Nodo 86	146	1	-	2286.00	-1987.00	0.00	-	-	-
Nodo 91	149	1	-	2695.00	-1987.00	0.00	-	-	-
Nodo 101	156	-	-	0.00	-2370.00	-22.50	2	-	-
Nodo 106	166	-	-	1260.00	-2370.00	-22.50	2	-	-
Nodo 111	176	-	-	1875.00	-2370.00	-15.00	1	-	-
Nodo 116	185	-	-	346.00	-2370.00	-15.00	1	-	-
Nodo 121	194	-	-	1006.00	-2370.00	-15.00	1	-	-
Nodo 126	203	-	-	346.00	-3030.00	-15.00	1	-	-
Nodo 131	212	-	-	1006.00	-3030.00	-15.00	1	-	-
Nodo 136	221	-	-	1006.00	-2700.00	-15.00	1	-	-
Nodo 141	230	-	-	1875.00	-2700.00	-15.00	1	-	-
Nodo 146	238	1	-	1875.00	-3030.00	0.00	-	-	-
Nodo 151	243	-	-	1495.00	-2700.00	-15.00	1	-	-
Nodo 156	252	-	-	1495.00	-3030.00	-15.00	1	-	-
Nodo 221	273	-	-	630.00	0.00	-15.00	1	-	-
Nodo 226	280	-	-	630.00	-474.00	-15.00	1	-	-
Nodo 231	287	-	-	630.00	-948.00	-15.00	1	-	-
Nodo 236	294	-	-	630.00	-1422.00	-15.00	1	-	-
Nodo 241	301	-	-	630.00	-1896.00	-15.00	1	-	-

Nodo C.	Vincoli					
	Sx	Sy	Sz	Rx	Ry	Rz
	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
2	L	L	L	L	L	L
12	L	L	L	L	L	L
22	L	L	L	L	L	L
32	L	L	L	L	L	L
42	L	L	L	L	L	L
51	L	L	L	L	L	L
61	L	L	L	L	L	L
71	L	L	L	L	L	L

80	L	L	L	L	L	L
90	L	L	L	L	L	L
100	L	L	L	L	L	L
108	L	L	L	L	L	L
111	L	L	L	L	L	L
118	L	L	L	L	L	L
128	L	L	L	L	L	L
138	L	L	L	L	L	L
146	L	L	L	L	L	L
149	L	L	L	L	L	L
156	L	L	L	L	L	L
166	L	L	L	L	L	L
176	L	L	L	L	L	L
185	L	L	L	L	L	L
194	L	L	L	L	L	L
203	L	L	L	L	L	L
212	L	L	L	L	L	L
221	L	L	L	L	L	L
230	L	L	L	L	L	L
238	L	L	L	L	L	L
243	L	L	L	L	L	L
252	L	L	L	L	L	L
273	L	L	L	L	L	L
280	L	L	L	L	L	L
287	L	L	L	L	L	L
294	L	L	L	L	L	L
301	L	L	L	L	L	L

2.2.4 Caratteristiche delle Travi di fondazione con la loro ubicazione in pianta

La tabella seguente riporta tutte le caratteristiche relative alle aste della struttura ed in modo particolare la colonna:

Asta I.	: Etichetta dell'asta di input;
Asta C.	: Numerazione interna dell'asta relativa al modello di calcolo;
Ni	: Nodo iniziale dell'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
Nf	: Nodo finale dell'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
Gruppo	: Numerazione del gruppo di cui l'asta fa parte;
Imp.	: Impalcato di appartenenza dell'asta;
Tipo	: Funzione dell'asta;
Formulaz.	: Formulazione strutturale dell'asta;
Risposta	: Risposta strutturale dell'asta;
Sez.	: Sezione trasversale associata all'asta (vedi "Elenco e caratteristiche delle sezioni trasversali");
Tip. rinf.	: Tipologia rinforzo associata all'asta (vedi "Elenco e caratteristiche delle tipologie di rinforzo");
Disp.	: Dispositivo antisismico associato all'asta (vedi "Elenco e caratteristiche dei dispositivi antisismici");
Link	: Elemento link associato all'asta (vedi "Elenco e caratteristiche degli elementi link");
Cl. serv.	: Classe di servizio (solo per aste in legno);
L	: Lunghezza teorica (nodo-nodo) dell'asta;
Kw1	: Modulo di Winkler in direzione 1 locale;
Kw2	: Modulo di Winkler in direzione 2 locale;
Kw3	: Modulo di Winkler in direzione 3 locale;
Qult	: Carico ultimo;
Z50	: Cedimento 50%;
Tipo	: Coesivo/Incoerente;

Vincoli interni

S1	: Grado di rigidezza ($0 \div 1$) o Valore di rigidezza dello spostamento lungo la direzione 1 locale;
S2	: Grado di rigidezza ($0 \div 1$) o Valore di rigidezza dello spostamento lungo la direzione 2 locale;
S3	: Grado di rigidezza ($0 \div 1$) o Valore di rigidezza dello spostamento lungo la direzione 3 locale;
R1	: Grado di rigidezza ($0 \div 1$) o Valore di rigidezza della rotazione intorno alla direzione 1 locale;
R2	: Grado di rigidezza ($0 \div 1$) o Valore di rigidezza della rotazione intorno alla direzione 2 locale;
R3	: Grado di rigidezza ($0 \div 1$) o Valore di rigidezza della rotazione intorno alla direzione 3 locale;

Asta I.	Asta C.	Ni	Nf	Gruppo	Imp.	Tipo	Formulaz.	Risposta	Sez.	Tip. rinf.	Disp.	Link	Cl. serv.	L [cm]
Asta 1 (11-1)	31	21	1	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 2 (1-221)	32	1	272	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 3 (6-16)	33	11	31	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 4 (221-6)	34	272	11	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 5 (26-11)	35	50	21	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 6 (11-226)	36	21	279	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 7 (16-21)	37	31	41	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 8 (16-31)	38	31	60	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 9 (226-16)	39	279	31	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 10 (21-36)	40	41	70	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 11 (41-26)	41	79	50	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 12 (26-231)	42	50	286	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 13 (31-36)	43	60	70	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 14 (31-46)	44	60	89	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 15 (231-31)	45	286	60	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 16 (36-51)	46	70	99	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 17 (71-41)	47	117	79	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 18 (41-236)	48	79	293	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 19 (46-51)	49	89	99	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 20 (46-76)	50	89	127	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 21 (236-46)	51	293	89	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 23 (61-56)	53	111	108	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	409.00
Asta 25 (56-86)	55	108	146	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	332.00
Asta 26 (91-61)	56	149	111	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	332.00
Asta 28 (101-71)	58	155	117	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 29 (71-241)	59	117	300	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 30 (76-81)	60	127	137	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 31 (76-106)	61	127	165	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00

Asta 32 (241-76)	62	300	127	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 34 (86-91)	64	146	149	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	409.00
Asta 37 (116-101)	67	184	155	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	346.00
Asta 38 (106-111)	68	165	175	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 39 (121-106)	69	193	165	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	254.00
Asta 40 (111-141)	70	175	229	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 41 (116-121)	71	184	193	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	660.00
Asta 42 (126-116)	72	202	184	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	660.00
Asta 43 (121-136)	73	193	220	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 44 (131-126)	74	211	202	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	660.00
Asta 45 (136-131)	75	220	211	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 46 (156-131)	76	251	211	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	489.00
Asta 47 (136-151)	77	220	242	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	489.00
Asta 48 (146-141)	78	238	229	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	330.00
Asta 49 (151-141)	79	242	229	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	380.00
Asta 50 (156-146)	80	251	238	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	380.00

Asta C.	Kw1 [daN/cm³]	Kw2 [daN/cm³]	Kw3 [daN/cm³]	Qult [N/mm²]	Z50 [cm]	Tipo
53	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
55	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
56	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
64	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
78	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
80	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-

(*) Valore medio della distribuzione variabile con la profondità

Vincoli Interni per grado/valore
Tutte le aste presenti nel modello risultano perfettamente incastrate

2.2.5 Caratteristiche delle Piastre di fondazione con la loro ubicazione in pianta

La tabella seguente riporta tutte le caratteristiche relative alle piastre della struttura:

Piastra I. : Etichetta della piastra di input;
Piastra C. : Numerazione interna della piastra relativa al modello di calcolo;

Imp.	: Impalcato al quale appartiene la piastra;
Nodi	: Nodi di calcolo del contorno della piastra (vedi "Nodo C." in "Caratteristiche dei Nodi");
Gruppo	: Numerazione del gruppo di cui la piastra fa parte;
Tipo elem.	: Tipo di elemento (parete o piastra);
Kw1	: Modulo di Winkler in direzione 1 locale;
Kw2	: Modulo di Winkler in direzione 2 locale;
Kw3	: Modulo di Winkler in direzione 3 locale;
Qult	: Carico ultimo;
Z50	: Cedimento 50%;
Tipo	: Coesivo/Incoerente;

Piastra I.	Piastra C.	Imp.	Nodi	Gruppo	Tipo elem.
Plinto Nodo 1	1	-	3 - 4 - 5 - 6	-	Corpo plinto
Plinto Nodo 6	2	-	13 - 14 - 15 - 16	-	Corpo plinto
Plinto Nodo 11	3	-	23 - 24 - 25 - 26	-	Corpo plinto
Plinto Nodo 16	4	-	33 - 34 - 35 - 36	-	Corpo plinto
Plinto Nodo 21	5	-	43 - 44 - 45 - 46	-	Corpo plinto
Plinto Nodo 26	6	-	52 - 53 - 54 - 55	-	Corpo plinto
Plinto Nodo 31	7	-	62 - 63 - 64 - 65	-	Corpo plinto
Plinto Nodo 36	8	-	72 - 73 - 74 - 75	-	Corpo plinto
Plinto Nodo 41	9	-	81 - 82 - 83 - 84	-	Corpo plinto
Plinto Nodo 46	10	-	91 - 92 - 93 - 94	-	Corpo plinto
Plinto Nodo 51	11	-	101 - 102 - 103 - 104	-	Corpo plinto
Plinto Nodo 71	12	-	119 - 120 - 121 - 122	-	Corpo plinto
Plinto Nodo 76	13	-	129 - 130 - 131 - 132	-	Corpo plinto
Plinto Nodo 81	14	-	139 - 140 - 141 - 142	-	Corpo plinto
Plinto Nodo 101	15	-	157 - 158 - 159 - 160	-	Corpo plinto
Plinto Nodo 106	16	-	167 - 168 - 169 - 170	-	Corpo plinto
Plinto Nodo 111	17	-	177 - 178 - 179 - 180	-	Corpo plinto
Plinto Nodo 116	18	-	186 - 187 - 188 - 189	-	Corpo plinto
Plinto Nodo 121	19	-	195 - 196 - 197 - 198	-	Corpo plinto
Plinto Nodo 126	20	-	204 - 205 - 206 - 207	-	Corpo plinto
Plinto Nodo 131	21	-	213 - 214 - 215 - 216	-	Corpo plinto
Plinto Nodo 136	22	-	222 - 223 - 224 - 225	-	Corpo plinto
Plinto Nodo 141	23	-	231 - 232 - 233 - 234	-	Corpo plinto
Plinto Nodo 151	24	-	244 - 245 - 246 - 247	-	Corpo plinto
Plinto Nodo 156	25	-	253 - 254 - 255 - 256	-	Corpo plinto
Plinto Nodo 221	26	-	274 - 275 - 276 - 277	-	Corpo plinto
Plinto Nodo 226	27	-	281 - 282 - 283 - 284	-	Corpo plinto
Plinto Nodo 231	28	-	288 - 289 - 290 - 291	-	Corpo plinto
Plinto Nodo 236	29	-	295 - 296 - 297 - 298	-	Corpo plinto
Plinto Nodo 241	30	-	302 - 303 - 304 - 305	-	Corpo plinto

Piastra C.	Kw1 [daN/cm³]	Kw2 [daN/cm³]	Kw3 [daN/cm³]	Qult	Z50	Tipo
1	2.50	2.50	1.25	-	-	-
2	2.50	2.50	1.25	-	-	-
3	2.50	2.50	1.25	-	-	-
4	2.50	2.50	1.25	-	-	-
5	2.50	2.50	1.25	-	-	-
6	2.50	2.50	1.25	-	-	-
7	2.50	2.50	1.25	-	-	-
8	2.50	2.50	1.25	-	-	-
9	2.50	2.50	1.25	-	-	-
10	2.50	2.50	1.25	-	-	-
11	2.50	2.50	1.25	-	-	-
12	2.50	2.50	1.25	-	-	-
13	2.50	2.50	1.25	-	-	-
14	2.50	2.50	1.25	-	-	-
15	2.50	2.50	1.25	-	-	-
16	2.50	2.50	1.25	-	-	-
17	2.50	2.50	1.25	-	-	-
18	2.50	2.50	1.25	-	-	-
19	2.50	2.50	1.25	-	-	-
20	2.50	2.50	1.25	-	-	-

21	2.50	2.50	1.25	-	-	-
22	2.50	2.50	1.25	-	-	-
23	2.50	2.50	1.25	-	-	-
24	2.50	2.50	1.25	-	-	-
25	2.50	2.50	1.25	-	-	-
26	2.50	2.50	1.25	-	-	-
27	2.50	2.50	1.25	-	-	-
28	2.50	2.50	1.25	-	-	-
29	2.50	2.50	1.25	-	-	-
30	2.50	2.50	1.25	-	-	-

La tabella seguente riporta le caratteristiche delle sezioni trasversali associate alle piastre:

N. strati : Numero totale degli strati della piastra;
 Spess. tot. : Spessore totale della piastra;
 Tip. : Tipologia associata alla piastra (vedi "Elenco e caratteristiche delle tipologie di piastra");
 Materiale : Materiale della piastra;
 Classe serv. : Classe di servizio (solo per elementi in legno);
 E : Modulo Young;
 n : Coefficiente di Poisson;
 ρ : Densità;

Piastra C.	N. strati	Spess. tot. [cm]	Tip.	Materiale	Cl.serv.	E [N/mm ²]	n	ρ [Kg/m ³]
1	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
2	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
3	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
4	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
5	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
6	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
7	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
8	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
9	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
10	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
11	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
12	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
13	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
14	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
15	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
16	1	45.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
17	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
18	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
19	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
20	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
21	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
22	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
23	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
24	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
25	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
26	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
27	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
28	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
29	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009
30	1	30.00	-	Cl. esist.	-	29961.951	0.15	2.55E-009

2.3 Categoria di sottosuolo e definizione dei valori caratteristici dei parametri geotecnici

- Caratteristiche litostratigrafiche

L'analisi dei risultati ottenuti dalle indagini per la caratterizzazione della categoria di sottosuolo sono meglio indicati nella relazione geologico-tecnica allegata. Per quanto riguarda l'aspetto geologico a seguito il rilevamento di un

significativo intorno della zona in esame si è riscontrata la presenza delle seguenti successioni litostratigrafiche nelle relative sezioni geologiche (colonne stratigrafiche):

Colonna : Nome della colonna stratigrafica usata;
 Nome dello strato : Nome dello strato appartenente la colonna stratigrafica usata;
 Descrizione dello strato : Descrizione estesa dello strato;

Colonna	Strato	Descrizione
Colonna 1	Strato1	

- Caratteristiche fisico meccaniche dei terreni di fondazione

Nell'ambito del progetto si è fatto uso delle seguenti colonne stratigrafiche:

Caratteristiche delle colonne stratigrafiche:

Colonna : Nome della colonna stratigrafica;
 Falda : Presenza della falda;
 Prof. Falda : Profondità della falda (se è presente);
 Quota piano campagna : Quota piano campagna;
 N. Strati : Numero degli strati della colonna stratigrafica.
 RQD : (Rock Quality Designation) grado di fratturazione dell'ammasso roccioso in [0-1]

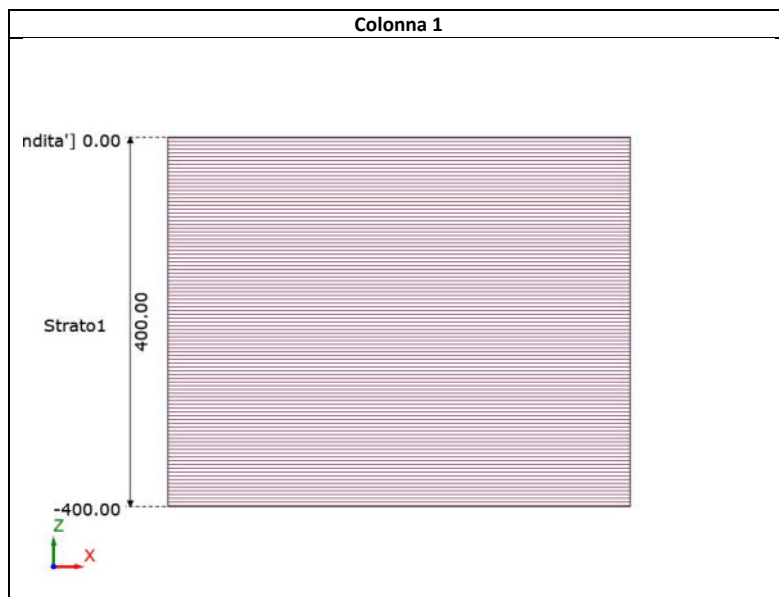
Colonna	Falda	Prof. Falda [cm]	Quota piano campagna [cm]	N. Strati	RQD
Colonna 1	Non presente	-	-170	1	0.00

Caratteristiche degli strati appartenenti alle colonne stratigrafiche:

Colonna : Nome della colonna stratigrafica;
 Strato : Nome dello strato appartenente la colonna stratigrafica;
 Spess. : Spessore dello strato;
 Peso : Peso dell'unità di volume dello strato;
 Peso sat. : Peso dell'unità di volume saturo dello strato;
 NSPT : Numero di colpi medio misurato nello strato;
 Qc : Resistenza alla punta media misurata nello strato;
 ϕ : Angolo di attrito del terreno;
 δ : Angolo di attrito terreno/struttura;
 α : Inclinazione dello strato;
 c' : Coesione drenata del terreno;
 cu' : Coesione non drenata del terreno;
 E : Modulo elastico del terreno;
 G : Modulo di taglio del terreno;
 ν^o : Coefficiente di Poisson;
 Eed : Modulo Edometrico;
 OCR : Grado di sovraconsolidazione del terreno.

Colonna 1															
Strato	Spess. [cm]	Peso [kN/m ³]	Peso sat. [kN/m ³]	NSPT	Qc [N/mm ²]	ϕ [°]	δ [°]	α [°]	c' [N/mm ²]	cu' [N/mm ²]	E [N/mm ²]	G [N/mm ²]	ν^o	Eed [N/mm ²]	OCR
Strato 1	400.00	14.50	8.00	13.00	1.50	34.80	23.00	0.00	0.00	0.087	15.60	83.026	0.35	6.50	1.00

- Sezioni Geologiche:



2.4 Tensioni sul Terreno

I dati seguenti riportano i valori delle tensioni massime esercitate dalla fondazione sul terreno.

2.4.1 Tensioni sul Terreno Travi di Fondazione

Asta : Numerazione dell'asta (vedi "Asta C." in "Caratteristiche delle Aste");

X : Distanza dal nodo iniziale misurata lungo l'asse dell'asta;

Tensioni (σ_T) : Valore della tensione dovuta alla pressione dell'asta di fondazione;

Tensioni Terreno									
		SLU		SLV		SLD	SLE		
Asta	X [cm]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	σ_T [kN/m ²]	Caratt. σ_T [kN/m ²]	Freq. σ_T [kN/m ²]	Q. Perm. σ_T [kN/m ²]
53	0.00	38.392	31.109	63.42	63.42	52.461	27.873	25.723	24.864
53	204.50	20.069	16.156	33.335	33.335	28.716	14.681	13.74	13.364
53	409.00	122.409	100.301	113.785	113.785	101.077	87.697	79.00	75.521
55	0.00	122.409	100.301	113.785	113.785	101.077	87.697	79.00	75.521
55	166.00	82.276	67.341	57.229	57.229	55.588	59.024	53.289	50.995
55	332.00	116.715	95.623	112.013	112.013	99.713	83.63	75.42	72.136

56	0.00	35.911	29.067	71.796	71.796	60.477	26.105	24.213	23.456
56	166.00	23.807	19.181	28.465	28.465	25.149	17.399	16.222	15.752
56	332.00	38.392	31.109	63.42	63.42	52.461	27.873	25.723	24.864
64	0.00	116.715	95.623	112.013	112.013	99.713	83.63	75.42	72.136
64	204.50	18.185	14.603	32.525	32.525	26.618	13.342	12.566	12.256
64	409.00	35.911	29.067	71.796	71.796	60.477	26.105	24.213	23.456
78	0.00	0.00	0.00	130.972	130.972	85.297	0.00	0.00	0.00
78	165.00	110.059	89.363	152.641	152.641	133.744	79.71	72.814	70.056
78	330.00	327.468*	267.695*	360.025*	360.025*	307.613*	235.271*	211.823*	202.444*
80	0.00	261.567	212.571	234.14	234.14	220.134	189.241	169.53	161.646
80	190.00	65.625	52.807	88.348	88.348	76.732	48.032	43.947	42.313
80	380.00	0.00	0.00	130.972	130.972	85.297	0.00	0.00	0.00

(*) valore massimo.

2.5 Relazione sulle Fondazioni (DM 17/01/2018 e CIRC. CSLLPP n. 7 DEL 21/01/2019)

2.5.1 Scelta del tipo di fondazioni

In funzione dei risultati ottenuti dalla campagna di indagini eseguite e della tipologia strutturale adottata per i lavori in oggetto, si è proceduto alla scelta delle tipologie di fondazione superficiali per distribuire i carichi trasmessi dalla sovrastruttura al terreno di fondazione ripartendoli il più possibile in modo uniforme sul suolo di sedime delle fondazioni stesse.

Le dimensioni strutturali delle opere di fondazione, le tipologie usate e la loro ubicazione risultano descritte nella prima parte della presente relazione e vengono meglio evidenziate negli elaborati grafici allegati.

Le verifiche di sicurezza relative agli stati limite ultimi (SLU) ed agli stati limite d'esercizio (SLE) indagati risultano tali da non limitare l'uso della costruzione, la sua efficienza, la durabilità della struttura garantendo un grado di sicurezza ed un livello di prestazioni nel rispetto della normativa vigente in materia.

TABULATI DI CALCOLO

Archivio: PALESTRA POST.fnx - Data : 19/07/2023

Oggetto: Adeguamento palestra scuola media

Committente	Progettista architettonico	Progettista strutturale	Direttore dei Lavori
Geologo	Collaudatore	Appaltatore	

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2.2 Calcestruzzo armato	Errore. Il segnalibro non è definito.
2.2.1 Pilastri.....	Errore. Il segnalibro non è definito.
2.2.1.1 Flessione composta retta in direzione 2 SLU	Errore. Il segnalibro non è definito.
2.2.1.2 Flessione composta retta in direzione 2 SLV.....	Errore. Il segnalibro non è definito.
2.2.1.3 Flessione composta retta in direzione 2 SLD	Errore. Il segnalibro non è definito.
2.2.1.4 Flessione composta retta in direzione 3 SLU	Errore. Il segnalibro non è definito.
2.2.1.5 Flessione composta retta in direzione 3 SLV.....	Errore. Il segnalibro non è definito.
2.2.1.6 Flessione composta retta in direzione 3 SLD	Errore. Il segnalibro non è definito.
2.2.1.7 Taglio SLU.....	Errore. Il segnalibro non è definito.
2.2.1.8 Taglio SLV.....	Errore. Il segnalibro non è definito.
2.2.1.9 Taglio SLD	Errore. Il segnalibro non è definito.
2.2.1.10 Torsione SLU.....	Errore. Il segnalibro non è definito.
2.2.1.11 Torsione SLV	Errore. Il segnalibro non è definito.
2.2.1.12 Stabilità Elastica	Errore. Il segnalibro non è definito.
2.2.1.13 Resistenza massima a compressione sezione cls SLV.....	Errore. Il segnalibro non è definito.
2.2.1.14 Dettagli costruttivi per la duttilità SLV	Errore. Il segnalibro non è definito.
2.2.1.15 Duttilità SLV	Errore. Il segnalibro non è definito.
2.2.1.16 Spostamenti relativi (RIG) SLO	Errore. Il segnalibro non è definito.
2.2.1.17 Stato Tensionale SLE	Errore. Il segnalibro non è definito.
2.2.1.18 Fessurazione SLE.....	Errore. Il segnalibro non è definito.
2.2.2 Nodi.....	Errore. Il segnalibro non è definito.
2.2.2.1 Verifica di resistenza Nodi SLV.....	Errore. Il segnalibro non è definito.
2.2.2.2 Verifica di resistenza Nodi SLD	Errore. Il segnalibro non è definito.
2.2.2.3 Verifica resistenza Nodi esistenti in assenza di armature SLV.....	Errore. Il segnalibro non è definito.

2.2.2.4 Verifica resistenza Nodi esistenti in assenza di armature SLD	Errore. Il segnalibro non è definito.
2.2.2.5 Verifica di resistenza taglio-trazione Nodi SLV	Errore. Il segnalibro non è definito.
2.2.2.6 Verifica di resistenza taglio-trazione Nodi SLD	Errore. Il segnalibro non è definito.
2.2.2.7 Controllo armatura Nodi	Errore. Il segnalibro non è definito.
2.2.3 Travi di Elevazione, Collegamenti plinti	Errore. Il segnalibro non è definito.
2.2.3.1 Flessione composta retta in direzione 2 SLU	Errore. Il segnalibro non è definito.
2.2.3.2 Flessione composta retta in direzione 2 SLV	Errore. Il segnalibro non è definito.
2.2.3.3 Flessione composta retta in direzione 2 SLD	Errore. Il segnalibro non è definito.
2.2.3.4 Taglio SLU	Errore. Il segnalibro non è definito.
2.2.3.5 Taglio SLV	Errore. Il segnalibro non è definito.
2.2.3.6 Taglio SLD	Errore. Il segnalibro non è definito.
2.2.3.7 Torsione SLU	Errore. Il segnalibro non è definito.
2.2.3.8 Torsione SLV	Errore. Il segnalibro non è definito.
2.2.3.9 Deformabilità SLE	Errore. Il segnalibro non è definito.
2.2.3.10 Stato Tensionale SLE	Errore. Il segnalibro non è definito.
2.2.3.11 Fessurazione SLE	Errore. Il segnalibro non è definito.

1 Risultati

1.1 Impalcati, baricentri ed eccentricità accidentali

I valori delle eccentricità accidentali per le torsioni sono i seguenti:

Impalcato	Torsioni Accidentali	
	e _x cm	e _y cm
2	134.75	151.50
3	134.75	151.50
4	93.75	151.50
5	76.00	118.50

Per ogni impalcato si riportano i dati relativi alle rigidezze, le masse e i relativi baricentri:

Impalcati	Caso	Centro Rigidezza		Rigidezze		
		xR cm	yR cm	Kx kN/m	Ky kN/m	Krz kNm/rad
1	Modi di vibrare SLV-SLC	941.57	-1305.93	-76201.59	-327456.31	-86726935.117
1	Modi di vibrare SLU-SLE-SLD-SLO	941.57	-1305.93	-76201.59	-327456.31	-86726935.117
2	Modi di vibrare SLV-SLC	850.08	-1323.40	3171144.03	1490440.84	717657105.011
2	Modi di vibrare SLU-SLE-SLD-SLO	850.08	-1323.40	3171144.03	1490440.84	717657105.011
3	Modi di vibrare SLV-SLC	820.95	-1269.95	4429844.57	1490249.73	828971910.81
3	Modi di vibrare SLU-SLE-SLD-SLO	820.95	-1269.95	4429844.57	1490249.73	828971910.81
4	Modi di vibrare SLV-SLC	630.91	-1190.74	557531.75	117078.09	83710534.869
4	Modi di vibrare SLU-SLE-SLD-SLO	630.91	-1190.74	557531.75	117078.09	83710534.869

Impalcati	Caso	Centro Massa		Masse		
		X cm	Y cm	Mx Kg	My Kg	Mrz Kg ^m
1	Modi di vibrare SLV-SLC	940.80	-1510.61	495725.67	495725.67	57627283.48
1	Modi di vibrare SLU-SLE-SLD-SLO	940.80	-1510.61	495725.67	495725.67	57627283.48
2	Modi di vibrare SLV-SLC	1797.84	-1773.38	45710.61	45710.61	8927538.19
2	Modi di vibrare SLU-SLE-SLD-SLO	1797.84	-1773.38	45710.61	45710.61	8927538.19
3	Modi di vibrare SLV-SLC	1077.78	-1721.75	211061.99	211061.99	33130329.01
3	Modi di vibrare SLU-SLE-SLD-SLO	1077.78	-1721.75	211061.99	211061.99	33130329.01
4	Modi di vibrare SLV-SLC	630.00	-1190.54	255775.44	255775.44	24846099.67
4	Modi di vibrare SLU-SLE-SLD-SLO	630.00	-1190.54	255775.44	255775.44	24846099.67

Di seguito i valori del tagliante alla base, calcolati con l'utilizzo dei modi significativi combinati con il metodo della CQC:

Caso	FX kN	FY kN
Sisma X SLV (DLSR)	2665.22	-666.75
Sisma Y SLV (DLSR)	255.34	2343.30

1.3 Modi di vibrare

I modi di vibrare del calcolo in oggetto sono i seguenti:

Modo	f Hz	T sec	MX %	MY %	MZ %	MRZ %
1	1.222	0.819	0.78	65.32 (*)	0.00	9.13
2	1.45	0.69	62.60 (*)	3.92	0.00	9.67
3	1.627	0.615	13.04 (*)	6.29 (*)	0.00	59.51
4	3.078	0.325	0.04	20.02 (*)	0.00	0.14
5	4.588	0.218	11.36 (*)	0.10	0.00	6.45
6	4.338	0.231	7.96 (*)	0.03	0.00	9.39
			94.96(>= 85%)	91.63(>= 85%)	(¹)	(²)

Dove MX è la percentuale di massa partecipante in direzione X, MY quella relativa alla direzione Y, MZ quella relativa

alla direzione Z e MRZ quella relativa alla direzione RZ.

(*) Modo di vibrare significativo per la direzione.

(¹) Modi di vibrare partecipanti in direzione Z non richiesti.

(²) Modi di vibrare partecipanti in direzione RZ non richiesti.

1.4 Risultati analisi

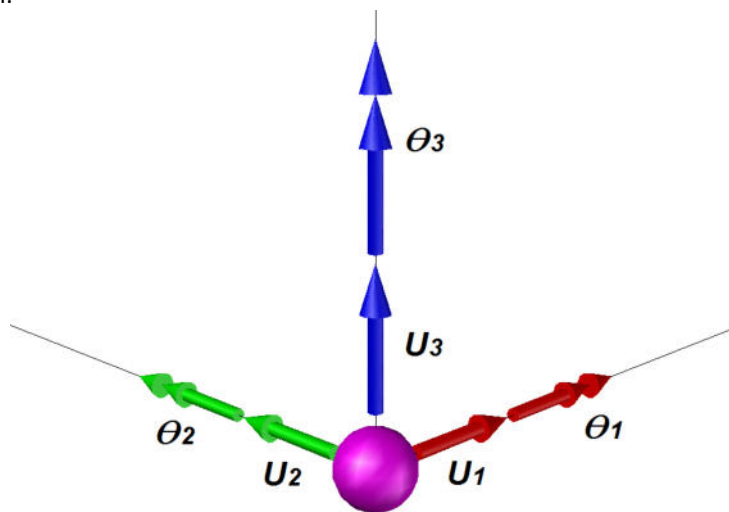
Di seguito si riportano i risultati dell'analisi ritenuti più significativi ai fini delle verifiche di sicurezza. Si tratta di output in termini di:

- Cinematismi nodali;
- Reazioni vincolari;
- Sollecitazioni sugli elementi;
- Domanda di deformazione sugli elementi;

1.4.1 Stato limite ultimo (SLU) - Struttura

1.4.1.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	-0.00158	0.021668	-9.942167	0.000234731027989	0.00014269086505	-0.000003273205973
1	minimi	-0.004595	0.020458	-10.492459	0.000212487825314	0.000137482235087	-0.000003858113745
2	massimi	-0.032513	0.074482	-9.942167	0.000234731027984	0.000142690865045	-0.000003273205971
2	minimi	-0.036701	0.068267	-10.492459	0.00021248782531	0.000137482235082	-0.000003858113743
3	massimi	-0.035142	0.077856	-9.753259	0.000150333996742	0.000284937908563	-0.000002504431897
3	minimi	-0.039824	0.071088	-10.30518	0.000133399536487	0.000271130938366	-0.000002970726488
4	massimi	-0.035435	0.069936	-10.079684	0.000149162453867	-0.000010088984348	-0.000002889079984
4	minimi	-0.040142	0.064372	-10.643972	0.000132270758322	-0.000014006160838	-0.000003390392516
5	massimi	-0.029159	0.069842	-9.63032	0.000302740646559	-0.000008115769934	-0.000002965442804
5	minimi	-0.032771	0.064289	-10.14757	0.00027680983015	-0.000011826390551	-0.000003476591201
6	massimi	-0.029451	0.07795	-9.303896	0.000301569103684	0.000282758138275	-0.000002580794717
6	minimi	-0.03309	0.071171	-9.808778	0.000275681051984	0.000269157723951	-0.000003056925173
7	massimi	0.470726	-0.099338	-10.198813	0.000344768362358	0.000531577415274	0.000041715935439
7	minimi	0.410693	-0.112463	-10.764966	0.000323381454485	0.000437592810995	0.000032082889528
8	massimi	0.870393	-0.147929	-10.323949	-0.000063617280259	0.000057058619135	0.000079837765434
8	minimi	0.732015	-0.167539	-10.894095	-0.000064579884508	0.000050143984194	0.000060373493539
9	massimi	1.059427	-0.309282	-10.40952	0.000442503211628	0.000309938610263	0.000106604156706

9	minimi	0.916443	-0.344868	-10.982469	0.000410668777587	0.000301220599825	0.000080237109121
10	massimi	1.642813	-0.642543	-10.52618	0.000287916095745	0.000860422703329	0.000174415319342
10	minimi	1.455105	-0.713016	-11.103115	0.000262073405211	0.000825427769386	0.000152050363492
11	massimi	0.104481	0.092196	-10.55594	0.000257948875427	0.000131908851671	0.000010242888514
11	minimi	0.088711	0.085695	-11.171237	0.00022975706416	0.000103934842945	0.000009137731988
12	massimi	0.074801	0.150234	-10.55594	0.000257948875423	0.000131908851669	0.00001024288851
12	minimi	0.065325	0.13739	-11.171237	0.000229757064155	0.000103934842944	0.000009137731984
13	massimi	0.083987	0.138508	-10.4076	0.000167090855076	0.000285613556242	0.000008983885724
13	minimi	0.073536	0.126901	-11.001935	0.000144868175235	0.000249131619518	0.000007945411566
14	massimi	0.083344	0.159595	-10.654373	0.000166007837588	-0.000035153942814	0.000008047400457
14	minimi	0.072948	0.145716	-11.315127	0.000144014834075	-0.000051787163431	0.000007171294836
15	massimi	0.065263	0.159786	-10.168489	0.000330594217486	-0.000032758561169	0.000008223083541
15	minimi	0.056833	0.145883	-10.769624	0.000298312468342	-0.00004965357842	0.000007324722184
16	massimi	0.06462	0.138317	-9.921716	0.000329511199997	0.000283218174598	0.000009069568808
16	minimi	0.056245	0.126734	-10.456432	0.000297459127182	0.000246998034507	0.00000809838914
17	massimi	0.473554	0.231885	-10.82897	0.000444938493814	-0.000134418710331	0.000120862814791
17	minimi	0.418733	0.228869	-11.46186	0.000409178672206	-0.000187305416728	0.000110499714802
18	massimi	0.836782	0.346834	-10.960532	-0.000189296528785	0.000384339570239	0.000199024795902
18	minimi	0.769548	0.346018	-11.598074	-0.00019607659473	0.000339121573572	0.000185447230807
19	massimi	1.2225	0.170099	-11.050615	0.000684538821556	0.000106721130923	0.000253904484767
19	minimi	1.092719	0.145209	-11.691423	0.000625678415593	0.000067460452506	0.000238069954811
20	massimi	1.535721	-0.374334	-11.171618	0.000459068236334	-0.000688027896768	0.000222706026788
20	minimi	1.350127	-0.469246	-11.816912	0.00041437096548	-0.000707427369787	0.000204438622371
21	massimi	-0.03444	0.014455	-12.63186	0.00011946293941	0.000241387178429	0.000002211317904
21	minimi	-0.047059	0.013584	-13.490021	0.000106845212729	0.000230871858565	0.000002160722642
22	massimi	-0.086387	0.041334	-12.63186	0.000119462939408	0.000241387178419	0.000002211317903
22	minimi	-0.101371	0.037624	-13.490021	0.000106845212727	0.000230871858556	0.000002160722641
23	massimi	-0.08371	0.038635	-12.14361	0.000015279794109	0.000425812736215	0.000002055116806
23	minimi	-0.098633	0.034921	-12.978135	0.000010105579892	0.000402112233824	0.000002040888572
24	massimi	-0.083871	0.043382	-12.69177	0.000013297919314	0.000036251610416	0.000001843124445
24	minimi	-0.09881	0.039735	-13.551262	0.000008210039622	0.000032516885003	0.000001807995642
25	massimi	-0.087753	0.043123	-12.465817	0.000216691584707	0.000037243801445	0.00000164023019
25	minimi	-0.102583	0.039515	-13.298625	0.00019748787476	0.000033626247357	0.000001569908369
26	massimi	-0.087914	0.038894	-11.917656	0.000214709709913	0.000424703373861	0.000001852222546
26	minimi	-0.10276	0.035142	-12.725498	0.00019559233449	0.000401120042796	0.000001802801299
27	massimi	1.099378	-0.096389	-12.970118	0.000198262556775	0.001160785001944	0.000095113162986
27	minimi	0.953092	-0.10911	-13.853785	0.000176212133683	0.000951638853211	0.000082498262865
28	massimi	2.026692	-0.196159	-13.115273	0.000013070685826	0.000030130529677	0.000183176509675
28	minimi	1.658265	-0.219525	-14.004202	0.000012922402199	-0.000015896094147	0.000156241971384
29	massimi	1.959707	-0.306938	-13.214899	0.000219597393919	-0.000029938577515	0.000245008221181
29	minimi	1.567639	-0.342544	-14.107523	0.00019583979931	-0.000030850649197	0.000208019468854
30	massimi	4.027046	-0.619551	-13.394429	0.000251356185986	0.001948870234073	0.000298686965604
30	minimi	3.572604	-0.688173	-14.295092	0.000225933555905	0.00186141871796	0.000265735454337
31	massimi	0.113845	0.083341	-15.932584	0.000192970060717	0.000294961159251	0.00000956216337
31	minimi	0.094777	0.0773	-17.150686	0.000167415613135	0.000246896252879	0.000008590614937
32	massimi	0.047478	0.12676	-15.932584	0.000192970060714	0.000294961159244	0.000009562163365
32	minimi	0.039225	0.114969	-17.150686	0.000167415613132	0.000246896252873	0.000008590614933
33	massimi	0.056174	0.115891	-15.395146	0.00005633478723	0.000535280931528	0.000008291056481
33	minimi	0.047062	0.105191	-16.548442	0.00004149577796	0.000470142985031	0.000007455750238
34	massimi	0.055631	0.135633	-15.981354	0.000053913053664	0.000024771384796	0.000007576836742
34	minimi	0.04657	0.122937	-17.24877	0.00003946867397	-0.0000013530648	0.000006807964958
35	massimi	0.038694	0.135754	-15.627308	0.000317592069438	0.00002656335594	0.000007688347794
35	minimi	0.031359	0.123037	-16.840683	0.000282839137594	0.000000201600969	0.000006900902027
36	massimi	0.038152	0.115769	-15.041101	0.000315170335872	0.000533488960385	0.000008402567533
36	minimi	0.030867	0.105091	-16.140355	0.000280812033604	0.000468588319262	0.000007547877306
37	massimi	1.064229	0.236955	-16.373142	0.000428986800246	0.000143358892161	0.000174622544243
37	minimi	0.936456	0.23345	-17.628229	0.000377700817403	0.000103190621315	0.000158986807283
38	massimi	2.159202	0.276359	-16.537343	-0.000153965114922	0.000942644230917	0.000328531983542
38	minimi	1.99438	0.271671	-17.798736	-0.000165262957601	0.000875137538753	0.000300734777278
39	massimi	3.549566	0.17617	-16.650343	0.000495450500418	0.001105288616118	0.000436596057944
39	minimi	3.270383	0.151572	-17.916163	0.000438568154864	0.001005475119042	0.000400259947701
40	massimi	3.961147	-0.34385	-16.830434	0.000483273242267	-0.001282252964662	0.000342924029613
40	minimi	3.512506	-0.436321	-18.10441	0.000430497545597	-0.001307482335164	0.000310194898832
41	massimi	0.142647	0.232778	-16.173	-0.000145579679352	0.000196563886656	0.00003106691056
41	minimi	0.121223	0.215505	-17.328845	-0.000150523492963	0.000162865419876	0.000028368357476
42	massimi	0.113162	0.2102	-16.173	-0.00014557967935	0.000196563886657	0.000031066910551
42	minimi	0.096793	0.193668	-17.328845	-0.000150523492961	0.000162865419877	0.000028368357467
43	massimi	0.131426	0.191115	-15.825975	-0.000247674462706	0.000305746910896	0.000028656972267
43	minimi	0.113493	0.17623	-16.945856	-0.000260347306675	0.000264719620568	0.0000261813204

44	massimi	0.131099	0.22789	-16.034403	-0.000248105817766	0.000081388709556	0.000027966932291
44	minimi	0.113192	0.209821	-17.19741	-0.000260867913366	0.000056046347417	0.000025545551614
45	massimi	0.094474	0.228066	-16.22071	-0.000035590438323	0.000080990042544	0.000028338418436
45	minimi	0.079752	0.209971	-17.390044	-0.000038615616415	0.000055660774277	0.000025863301636
46	massimi	0.094148	0.190939	-16.012282	-0.000036111045014	0.000306145577908	0.000029028458412
46	minimi	0.079451	0.176079	-17.13849	-0.000039046971475	0.000265105193708	0.000026499070422
47	massimi	1.06569	1.655211	-16.432457	0.000906126206632	-0.000405574741037	0.000173319142446
47	minimi	0.938155	1.546603	-17.607988	0.00081974839929	-0.000452475752275	0.000158564236301
48	massimi	3.145632	3.442316	-16.51616	-0.00152028503735	0.001462699636615	0.000370916198003
48	minimi	2.888118	3.199104	-17.69744	-0.001651729563202	0.001364634780814	0.000337933544974
49	massimi	3.509693	4.449455	-16.572749	0.000695439650758	-0.001391418542345	0.00050965455616
49	minimi	3.233347	4.132071	-17.758066	0.000628001727878	-0.001503895605863	0.000463873697872
50	massimi	-0.014802	0.004898	-12.966279	0.000025811792007	0.000384257578425	0.000002459434804
50	minimi	-0.025236	0.004747	-13.867757	0.000022592683166	0.000357939607194	0.000002134552827
51	massimi	-0.095339	0.010705	-12.966279	0.000025811792007	0.000384257578411	0.000002459434803
51	minimi	-0.111694	0.009831	-13.867757	0.000022592683166	0.000357939607181	0.000002134552826
52	massimi	-0.092732	0.007924	-12.228548	-0.000073207675782	0.000567026502034	0.000002216314003
52	minimi	-0.10868	0.007414	-13.076455	-0.000077369752402	0.000527677685296	0.000001923187024
53	massimi	-0.092775	0.013318	-13.078406	-0.00007614648757	0.000162575755704	0.000002155995742
53	minimi	-0.108726	0.012092	-13.9888	-0.000080524644117	0.000151953791625	0.000001867797215
54	massimi	-0.096634	0.013033	-13.030627	0.000130217387917	0.000162815450379	0.000001893662675
54	minimi	-0.113176	0.011849	-13.934214	0.000119641817767	0.000152163592859	0.000001643877378
55	massimi	-0.096676	0.008209	-12.180769	0.000127062496202	0.00056678680736	0.000001953980937
55	minimi	-0.113222	0.007658	-13.021869	0.000116703005978	0.000527467884061	0.000001699267187
56	massimi	1.587242	-0.09076	-13.313616	0.000039728923322	0.001335425014851	0.000050382934673
56	minimi	1.387179	-0.102804	-14.241814	0.000035354002466	0.001107238308063	0.000045719435353
57	massimi	2.967472	-0.216365	-13.463759	0.00008855794538	0.000320691243823	0.000108411195879
57	minimi	2.498639	-0.242452	-14.397885	0.000079889311779	0.00024567073238	0.000098699993968
58	massimi	3.303816	-0.304947	-13.566888	0.000050147380005	0.000281496338068	0.000149154443108
58	minimi	2.771662	-0.340595	-14.505176	0.000045265943302	0.00025205635969	0.000135899109591
59	massimi	6.214242	-0.583881	-13.748543	0.000088646395348	0.002165096132846	0.000163453923088
59	minimi	5.535728	-0.649021	-14.695164	0.000079335096496	0.002052846673114	0.000148902658835
60	massimi	0.115153	0.064888	-17.927059	0.000025080532885	0.000374601232001	0.000004116428809
60	minimi	0.096116	0.060433	-19.44897	0.000016083497344	0.000322834953875	0.000003798531156
61	massimi	0.030868	0.070531	-17.927059	0.000025080532885	0.000374601231991	0.000004116428807
61	minimi	0.023478	0.064052	-19.44897	0.000016083497344	0.000322834953866	0.000003798531154
62	massimi	0.034576	0.06574	-17.082528	-0.000120167600944	0.000646689942878	0.000003601950111
62	minimi	0.02693	0.059633	-18.509059	-0.000123734904884	0.000573279306341	0.000003326755909
63	massimi	0.034274	0.074212	-17.849037	-0.000122818188045	0.000064577561671	0.000003204547444
63	minimi	0.026656	0.067464	-19.398477	-0.000126810511109	0.00003969788756	0.000002965857032
64	massimi	0.027051	0.074291	-17.815024	0.000175095444131	0.000064810466149	0.000003277045527
64	minimi	0.019987	0.067524	-19.345437	0.000153782067304	0.00003984724318	0.000003020998532
65	massimi	0.026749	0.065661	-17.048515	0.000172019837906	0.000646457038401	0.000003674448194
65	minimi	0.019713	0.059573	-18.456019	0.000151131480202	0.000573129950721	0.000003381897409
66	massimi	1.556802	0.24828	-18.43047	0.00011341687573	0.000543207373999	0.000109881382182
66	minimi	1.374625	0.243641	-19.999309	0.000094354804882	0.000523326661182	0.000100456741237
67	massimi	3.26733	0.25447	-18.616142	-0.000023860272126	0.001224790675879	0.000195735104291
67	minimi	2.973661	0.247149	-20.192467	-0.000027135572583	0.001130754278065	0.000177867724128
68	massimi	5.094359	0.185885	-18.744217	0.000196532181733	0.001517940792797	0.000256015377262
68	minimi	4.651773	0.161934	-20.325797	0.00016986899853	0.001388659090536	0.00023222011637
69	massimi	6.15794	-0.291442	-18.927585	0.000214026117211	-0.001173733567694	0.000180711247769
69	minimi	5.484642	-0.378793	-20.517462	0.000187683958306	-0.001180406487163	0.000163616251685
70	massimi	0.165279	0.189274	-20.143045	0.000028264491832	0.000573885621093	0.000010472663166
70	minimi	0.139297	0.175622	-21.737924	0.000017110735269	0.000483019916266	0.000008888141831
71	massimi	0.079197	0.193514	-20.143045	0.000028264491831	0.000573885621087	0.000010472663163
71	minimi	0.066844	0.178188	-21.737924	0.000017110735269	0.00048301991626	0.000008888141828
72	massimi	0.085312	0.186706	-19.656663	-0.000113725556273	0.000707494953381	0.000009794219703
72	minimi	0.072046	0.172364	-21.185029	-0.000113999276755	0.000607169117734	0.00000833585833
73	massimi	0.085012	0.199039	-20.274812	-0.000115245513468	0.000422781669484	0.000009158955169
73	minimi	0.071769	0.182832	-21.919464	-0.000115278572785	0.000344146091546	0.000007750904211
74	massimi	0.072856	0.199162	-20.252915	0.000170912868076	0.000422856529031	0.000009418940476
74	minimi	0.061475	0.182935	-21.883293	0.000148978431022	0.000344191409958	0.000007970337142
75	massimi	0.072556	0.186583	-19.634766	0.000169392910881	0.000707420093833	0.00001005420501
75	minimi	0.061198	0.172226	-21.148858	0.000147699134991	0.000607123799322	0.000008555291261
76	massimi	1.560378	1.665126	-20.482063	0.000682029557819	-0.000729980335602	0.000095296564637
76	minimi	1.379353	1.555772	-22.105827	0.000616309128332	-0.000897781102843	0.000086206734885
77	massimi	4.330203	3.491558	-20.60322	-0.00145238018163	0.002128214469223	0.000236571504285
77	minimi	3.985667	3.244896	-22.23433	-0.001576594447213	0.001941851106784	0.000214837462392
78	massimi	5.039048	4.479488	-20.686107	0.000596599483133	-0.001778181295197	0.000335764547016

78	minimi	4.601526	4.159589	-22.322375	0.000540174211581	-0.001900259085888	0.000305152654046
79	massimi	-0.036959	-0.001961	-12.963312	0.000010023172742	0.000375730059396	-0.000007570752839
79	minimi	-0.049143	-0.002325	-13.864157	0.000008953575196	0.000349188109455	-0.000008366746257
80	massimi	-0.115527	0.000053	-12.963312	0.000010023172742	0.000375730059382	-0.000007570752835
80	minimi	-0.133682	-0.00007	-13.864157	0.000008953575196	0.000349188109442	-0.000008366746253
81	massimi	-0.121678	0.00845	-12.221632	-0.000086348318352	0.000558800167597	-0.000006189947959
81	minimi	-0.14044	0.007769	-13.066387	-0.000092573427142	0.000519258746853	-0.000006834070123
82	massimi	-0.121678	-0.007663	-13.050711	-0.000089215277223	0.000154610614718	-0.000006190248914
82	minimi	-0.14044	-0.008589	-13.958485	-0.000095658304885	0.000143755979043	-0.000006833675291
83	massimi	-0.107839	-0.007958	-13.031777	0.000114954871159	0.000154703692375	-0.000006461583831
83	minimi	-0.125146	-0.008931	-13.937288	0.000106452659199	0.000143839124153	-0.000007147651118
84	massimi	-0.107839	0.008792	-12.202697	0.000111869993416	0.00055870708994	-0.000006461282876
84	minimi	-0.125146	0.008064	-13.04519	0.000103585700327	0.000519175601743	-0.000007148046012
85	massimi	1.561492	-0.083963	-13.310448	0.000027696806698	0.001348943383335	-0.000044637787164
85	minimi	1.36082	-0.095211	-14.237986	0.000024762738324	0.001118835370562	-0.000048256064432
86	massimi	3.000164	-0.213793	-13.460527	0.000096264761619	0.000365557939347	-0.000071533095979
86	minimi	2.524202	-0.239888	-14.393983	0.000086553774422	0.000285845000373	-0.000077204026916
87	massimi	3.402528	-0.30198	-13.563611	0.000037024507138	0.000334791493953	-0.00009041703621
87	minimi	2.856427	-0.337604	-14.501223	0.000033851060762	0.000299874529671	-0.000097529192064
88	massimi	6.452041	-0.550122	-13.74511	0.000061450183274	0.00220141229056	-0.000071924044859
88	minimi	5.744753	-0.611898	-14.691042	0.000055779912029	0.002084895968843	-0.000079206210791
89	massimi	0.08341	0.046113	-18.27215	-0.000060434572136	0.000372520341672	-0.000002875700399
89	minimi	0.066778	0.043367	-19.84199	-0.000062818735657	0.000320624921289	-0.000003208497252
90	massimi	-0.000407	0.031979	-18.27215	-0.000060434572135	0.000372520341661	-0.000002875700398
90	minimi	-0.005363	0.029769	-19.84199	-0.000062818735656	0.000320624921279	-0.00000320849725
91	massimi	-0.003268	0.035059	-17.339483	-0.000196653626301	0.000650561840229	-0.000002312637904
91	minimi	-0.007892	0.032515	-18.800388	-0.000211567697309	0.000576318575274	-0.000002590303288
92	massimi	-0.003405	0.028395	-18.100745	-0.000199286068268	0.000056754610385	-0.000002480371436
92	minimi	-0.008019	0.026555	-19.684865	-0.000214626218701	0.000032462358101	-0.000002770485246
93	massimi	0.002597	0.028394	-18.22855	0.000093687861545	0.000056171258951	-0.000002492967007
93	minimi	-0.002635	0.026541	-19.817712	0.000082937692372	0.000031901146641	-0.000002771440986
94	massimi	0.00246	0.03506	-17.467289	0.000090629340152	0.000651145191663	-0.000002325233475
94	minimi	-0.002763	0.032529	-18.933235	0.000080305250406	0.000576879786733	-0.000002591259028
95	massimi	1.525507	0.262318	-18.784569	-0.000017105341095	0.000614852959364	0.000049348463823
95	minimi	1.343163	0.256248	-20.402632	-0.00001888310677	0.000587719675529	0.000046297028787
96	massimi	3.30572	0.246844	-18.973213	0.00003719283394	0.001247549819926	0.000064446778096
96	minimi	3.003866	0.23751	-20.599229	0.000025613364626	0.001150677386692	0.000060348463743
97	massimi	5.181511	0.199096	-19.103373	0.000052718043543	0.001579058807539	0.00007504772216
97	minimi	4.725863	0.176118	-20.734974	0.000045118856739	0.001444453779585	0.000070214364882
98	massimi	6.395658	-0.239026	-19.287811	0.000113029126456	-0.001141096160043	-0.000039041573992
98	minimi	5.693629	-0.320989	-20.927897	0.000100167901972	-0.001143269528974	-0.000044723862791
99	massimi	0.139161	0.101326	-22.021053	-0.000442272463379	0.000149636929723	-0.000000218468924
99	minimi	0.115112	0.094956	-23.775502	-0.000479938028037	0.000089615334246	-0.000003730566349
100	massimi	0.116715	0.029335	-22.021053	-0.000442272463373	0.000149636929725	-0.000000218468924
100	minimi	0.10167	0.028615	-23.775502	-0.00047993802803	0.000089615334248	-0.000003730566348
101	massimi	0.114133	0.031547	-21.474194	-0.0005796544423392	0.000302876376456	-0.000000320312853
101	minimi	0.101225	0.028729	-23.149077	-0.000628580349266	0.000231905570649	-0.00000356547645
102	massimi	0.114087	0.028311	-21.58888	-0.000579891772904	-0.000008164124798	-0.000000414250507
102	minimi	0.101181	0.026928	-23.340576	-0.000628976668183	-0.000055406781293	-0.00000366177623
103	massimi	0.11857	0.028469	-22.154882	-0.000291170696549	-0.000009435258334	-0.000000080490492
103	minimi	0.101485	0.02711	-23.954781	-0.000316268714476	-0.000056578156194	-0.000003278624968
104	massimi	0.118524	0.031365	-22.040196	-0.000291408046061	0.000304147509992	0.000000013447161
104	minimi	0.10144	0.028571	-23.763282	-0.000316665033393	0.000233076945551	-0.000003182325188
105	massimi	1.521429	1.686516	-22.408876	0.000040247020431	-0.000534070551747	-0.000034131214407
105	minimi	1.340866	1.575526	-24.196343	0.000037187350315	-0.000696247698849	-0.000037880250025
106	massimi	4.235864	3.371653	-22.585192	-0.000314461548112	0.001946070314137	-0.000583449636202
106	minimi	3.896389	3.137629	-24.381987	-0.000379026670378	0.001770495062332	-0.000632914327739
107	massimi	5.11464	4.538346	-22.670806	-0.000105992208841	-0.001516926481345	-0.000003079670193
107	minimi	4.665132	4.213567	-24.473447	-0.000115924019083	-0.001617403407093	-0.000004785399521
108	massimi	0.127525	0.014723	-2.291629	-0.00067721009876	-0.001606202449666	0.000007255461706
108	minimi	0.11576	0.014479	-2.448183	-0.000725379195205	-0.001725608830564	0.000007070492261
109	massimi	1.816568	1.275175	-2.438516	-0.000215887155177	0.001568696274767	-0.000112332027733
109	minimi	1.667382	1.190027	-2.604912	-0.000232934691949	0.001450062047988	-0.000120335692407
110	massimi	2.604242	1.344341	-2.540159	0.000165243849201	-0.001384851223838	-0.000198669234497
110	minimi	2.392015	1.248579	-2.713672	0.000159437750256	-0.001492093233441	-0.000212593911534
111	massimi	0.125841	0.002657	-0.729154	-0.000293830462181	0.00047291238711	0.000007587823776
111	minimi	0.114304	0.002046	-0.767842	-0.000312779550873	0.000443128973499	0.000007317643225
112	massimi	2.833065	0.628284	-0.791776	-0.000107618123079	0.000885360485756	-0.000029945123449
112	minimi	2.626541	0.586823	-0.834311	-0.000116775182644	0.00081581783461	-0.000032389581419

113	massimi	2.589314	0.558369	-0.832489	0.000218182542106	-0.001432237711676	-0.00005688897012
113	minimi	2.378133	0.516374	-0.877804	0.000207859130147	-0.001523315530385	-0.00006129632056
114	massimi	0.126918	0.047133	-21.170905	-0.000223871586275	-0.003651384394859	-0.00001199940389
114	minimi	0.114698	0.044921	-22.815494	-0.000257043995168	-0.003926887734096	-0.000012656720767
115	massimi	1.222246	1.694704	-22.231017	-0.00026624081248	-0.000604258046217	-0.000156136288576
115	minimi	1.067682	1.582945	-23.975858	-0.000300852765812	-0.000773424528702	-0.000170961452841
116	massimi	2.647535	3.355012	-23.200641	-0.000193767662336	0.000580915944415	-0.000271720224789
116	minimi	2.432162	3.121938	-24.936672	-0.000215072779053	0.000522899034904	-0.000295657662549
117	massimi	-0.104648	-0.007548	-12.804144	-0.000025809405435	0.000212735023576	-0.000020853131621
117	minimi	-0.123996	-0.008281	-13.678412	-0.000028940715372	0.000200075764312	-0.000022413066165
118	massimi	-0.149665	-0.013355	-12.804144	-0.000025809405435	0.000212735023565	-0.000020853131611
118	minimi	-0.171861	-0.014793	-13.678412	-0.000028940715372	0.000200075764303	-0.000022413066155
119	massimi	-0.167757	0.008384	-12.207269	-0.000119122156297	0.000400920840858	-0.000017285764998
119	minimi	-0.191235	0.008219	-13.038243	-0.00012923078377	0.000375001720174	-0.000018567157628
120	massimi	-0.1677	-0.034718	-12.86231	-0.000120764849654	0.000004888586629	-0.000017210517999
120	minimi	-0.191172	-0.037737	-13.543341	-0.000130977414158	0.000003006009811	-0.000018483808745
121	massimi	-0.129638	-0.0351	-12.736891	0.000075260881422	0.000004648914117	-0.000017562031944
121	minimi	-0.150265	-0.038176	-13.604544	0.000071076700472	0.000002737259182	-0.000018887455558
122	massimi	-0.129581	0.008823	-12.26185	0.000073514251034	0.000401189591487	-0.000017637278943
122	minimi	-0.150201	0.008601	-13.099446	0.000069434007116	0.000375241392686	-0.000018970804441
123	massimi	1.016986	-0.076399	-13.146515	-0.000048991585162	0.00120994042347	-0.000104902549384
123	minimi	0.866409	-0.086795	-14.046675	-0.000058070247216	0.000994338174017	-0.000119219000633
124	massimi	2.161991	-0.220299	-13.29392	0.00013765045651	0.000201291886189	-0.000151940431498
124	minimi	1.766799	-0.247127	-14.199621	0.000122300506382	0.000138373450634	-0.000177434638259
125	massimi	2.354478	-0.298294	-13.395126	-0.00004345451134	0.000185571856003	-0.000184967029578
125	minimi	1.909654	-0.333825	-14.304717	-0.000051144338259	0.000164270621562	-0.000218309447657
126	massimi	5.063351	-0.521118	-13.575604	-0.000018991767	0.002139877306414	-0.00019259475029
126	minimi	4.484866	-0.580024	-14.49338	-0.000022666784342	0.002027555315408	-0.0000218893990182
127	massimi	0.025623	0.028777	-17.862257	-0.000146475806389	0.000225397369472	-0.00000476853287
127	minimi	0.015592	0.027498	-19.380258	-0.000158360282564	0.000187354213169	-0.000005856597723
128	massimi	-0.025092	-0.005459	-17.862257	-0.000146475806386	0.000225397369465	-0.000004768532867
128	minimi	-0.026562	-0.006854	-19.380258	-0.000158360282561	0.000187354213163	-0.00000585659772
129	massimi	-0.030293	-0.000497	-17.008523	-0.000276673300865	0.000503095431563	-0.000003968552839
129	minimi	-0.030756	-0.000749	-18.425468	-0.000300365479851	0.000442872248293	-0.000004883346401
130	massimi	-0.030263	-0.010335	-17.45336	-0.000278211544029	-0.000075126138298	-0.000003937792907
130	minimi	-0.030732	-0.012851	-18.96063	-0.000302216070542	-0.000087136729339	-0.000004844726237
131	massimi	-0.019587	-0.010403	-17.763122	-0.000002658457921	-0.000076596713866	-0.000004000178877
131	minimi	-0.022039	-0.012915	-19.295526	-0.000003783042498	-0.000088496942511	-0.000004903658806
132	massimi	-0.019557	-0.000429	-17.318286	-0.000004509048612	0.000504566007131	-0.000004030938809
132	minimi	-0.022016	-0.000685	-18.760364	-0.000005321285662	0.000444232461464	-0.00000494227897
133	massimi	0.964363	0.277009	-18.362223	-0.00018911136567	0.000415496061114	0.000005406412956
133	minimi	0.832954	0.269457	-19.926871	-0.000207463962154	0.000405569183275	0.000003825244681
134	massimi	2.33282	0.235516	-18.545324	0.000124028628759	0.001029343203981	-0.000036750230363
134	minimi	2.115981	0.224383	-20.117269	0.000103033203726	0.000950530110937	-0.000040568227038
135	massimi	3.953631	0.213506	-18.671594	-0.000129921017327	0.001421023995332	-0.000066349575673
135	minimi	3.605211	0.1916	-20.248661	-0.000143088653009	0.00130153055217	-0.000071738111436
136	massimi	5.002935	-0.193364	-18.853392	-0.000035393770757	-0.001140458246516	-0.000151106052128
136	minimi	4.429876	-0.270865	-20.438663	-0.00003745994826	-0.001144487044973	-0.000169555557871
137	massimi	0.102028	-0.006768	-20.537923	-0.000640912074453	-0.000749888248798	0.000007179235762
137	minimi	0.084	-0.008854	-22.121396	-0.000692111749042	-0.000766419456979	0.000004783385547
138	massimi	0.216991	-0.102905	-20.537923	-0.000640912074444	-0.00074988824878	0.00000717923576
138	minimi	0.196483	-0.112671	-22.121396	-0.000692111749032	-0.00076641945696	0.000004783385546
139	massimi	0.219028	-0.106681	-20.415559	-0.000766306539292	-0.000605136646886	0.000006094104022
139	minimi	0.200021	-0.114973	-21.961453	-0.000827500612363	-0.000610730779222	0.000003846698842
140	massimi	0.219203	-0.098447	-19.455883	-0.000764320432659	-0.000871779878313	0.000006431918998
140	minimi	0.200181	-0.109621	-20.980621	-0.000825470722216	-0.000898744216633	0.000004216572867
141	massimi	0.213339	-0.098142	-20.276096	-0.000497965828642	-0.000873477357537	0.000007076930362
141	minimi	0.191482	-0.109284	-21.866357	-0.000537654091505	-0.00090057730008	0.000004928905916
142	massimi	0.213514	-0.106986	-21.235772	-0.000495979722008	-0.000603439167662	0.000006739115387
142	minimi	0.191642	-0.115311	-22.847189	-0.000535624201358	-0.000608897695775	0.000004559031891
143	massimi	0.947396	1.703172	-20.922143	-0.000823291171317	-0.000676855411741	-0.000003156065245
143	minimi	0.818721	1.590619	-22.537405	-0.000897371964626	-0.000853251206791	-0.000005811386635
144	massimi	2.942039	3.338997	-21.129456	-0.000755321235228	0.001629037323382	-0.000106955809208
144	minimi	2.708143	3.106832	-22.753498	-0.000823235148182	0.001480984817281	-0.000113492615191
145	massimi	3.865754	4.665633	-21.208868	-0.000914951467654	-0.001539888268133	0.000047651088674
145	minimi	3.524688	4.332416	-22.838476	-0.000997934895868	-0.00164725500189	0.000039542578837
146	massimi	0.115783	0.014739	-2.186517	0.000605351578906	-0.001564531973157	-0.000000262922277
146	minimi	0.103063	0.01451	-2.334292	0.000566604965021	-0.0016802517365	-0.00000076861769
147	massimi	1.686986	0.176647	-2.32908	-0.000493232133409	0.001521100409474	-0.000104552588675

147	minimi	1.546363	0.160744	-2.48639	-0.000530303942577	0.001406673708097	-0.000112721843671
148	massimi	2.589168	1.342343	-2.427596	-0.000564874312834	-0.00118471925404	-0.000179962039763
148	minimi	2.378228	1.246709	-2.591801	-0.00060544328033	-0.001276456878933	-0.000193672637842
149	massimi	0.114637	0.002941	-0.684169	0.000261051550381	0.000458640126492	-0.000001468453834
149	minimi	0.102188	0.002301	-0.718223	0.000246501491694	0.000430335078529	-0.000002205339777
150	massimi	2.805679	-0.043218	-0.744063	-0.000184160268305	0.000886323517713	-0.000036933927661
150	minimi	2.601616	-0.045846	-0.781635	-0.000198148940236	0.000817386725634	-0.000039883168284
151	massimi	2.571491	0.558628	-0.782803	-0.000400979345085	-0.001425411862773	-0.000062578193352
151	minimi	2.361773	0.516622	-0.822919	-0.000427789717658	-0.001514554196113	-0.000067127136589
152	massimi	0.113798	-0.026267	-19.691025	-0.001108038215963	-0.002936652237539	0.000017060306352
152	minimi	0.100268	-0.029881	-21.200824	-0.001206314186536	-0.003148750560687	0.000012963475621
153	massimi	0.926892	1.706088	-20.063747	-0.001068571039479	-0.000780929269991	-0.000034529048165
153	minimi	0.802357	1.593257	-21.60255	-0.001162295490798	-0.000962016510691	-0.000041096802775
154	massimi	2.642481	3.330861	-20.679671	-0.000480435980696	0.000963417902695	-0.000357767235467
154	minimi	2.427747	3.099149	-22.231737	-0.000574567448645	0.000872310163103	-0.000382044346547
155	massimi	-0.221081	-0.010399	-11.488569	-0.000159414128821	0.000143833488962	0.000008390362522
155	minimi	-0.242576	-0.010971	-12.186999	-0.000178012950642	0.000123185272205	0.000007238093723
156	massimi	-0.248798	-0.046267	-11.488569	-0.000159414128818	0.000143833488951	0.000008390362518
156	minimi	-0.274939	-0.051024	-12.186999	-0.000178012950639	0.000123185272195	0.00000723809372
157	massimi	-0.240626	-0.053739	-10.879252	-0.000237291675115	0.000311077629993	0.000007189718389
157	minimi	-0.265551	-0.059689	-11.513569	-0.000260819174756	0.000280444618919	0.000006209639047
158	massimi	-0.240428	-0.038067	-11.171732	-0.000238303070118	-0.000037976345405	0.000007477211268
158	minimi	-0.265332	-0.041557	-11.855073	-0.00026200009898	-0.00004654876946	0.000006470329633
159	massimi	-0.253857	-0.038703	-11.508856	-0.000068600280851	-0.000039629417621	0.000006831468202
159	minimi	-0.280888	-0.042259	-12.23153	-0.000080709618608	-0.000048029128423	0.000005885984042
160	massimi	-0.253659	-0.053103	-11.216377	-0.000069611675854	0.000312730702209	0.000006543975322
160	minimi	-0.28067	-0.058986	-11.890025	-0.000081890542832	0.000281924977883	0.000005625293456
161	massimi	0.453411	-0.068416	-11.785794	-0.000074996592434	0.001117451585659	0.000120040026499
161	minimi	0.384332	-0.077971	-12.50376	-0.000083695917394	0.000999242314779	0.000115894430025
162	massimi	1.478478	-0.238948	-11.914266	0.000155687249921	0.000218319229347	0.000160606482241
162	minimi	1.294016	-0.271032	-12.63847	0.000145617061133	0.000188075105151	0.000159564249265
163	massimi	1.850589	-0.293541	-12.002178	-0.00012181061201	0.000466400011315	0.000190226037243
163	minimi	1.614505	-0.328946	-12.730762	-0.000129410870996	0.000405757801637	0.000189089312868
164	massimi	3.364823	-0.504575	-12.123878	-0.000052441023326	0.001270230267857	-0.00001075336292
164	minimi	2.984195	-0.56215	-12.857367	-0.000054136385676	0.001194437669989	-0.000022678440496
165	massimi	-0.008495	0.017251	-15.263822	-0.000272503970171	-0.000012105769529	-0.000003779024717
165	minimi	-0.009655	0.016664	-16.49263	-0.000296216491439	-0.000013872881146	-0.000004747482939
166	massimi	-0.005374	-0.044649	-15.263822	-0.000272503970167	-0.000012105769529	-0.000003779024716
166	minimi	-0.006931	-0.049398	-16.49263	-0.000296216491434	-0.000013872881146	-0.000004747482937
167	massimi	-0.009783	-0.040381	-14.587783	-0.000377566542866	0.000229338928893	-0.000003275224938
167	minimi	-0.010435	-0.044085	-15.758543	-0.000410443888545	0.000211568173708	-0.000004099631376
168	massimi	-0.009572	-0.048214	-14.55904	-0.000377467150293	-0.000234553790807	-0.00000302365299
168	minimi	-0.010244	-0.053933	-15.725604	-0.000410329987373	-0.000255679818113	-0.000003821301821
169	massimi	-0.001105	-0.048232	-15.135324	-0.000147156309989	-0.00023708433492	-0.000003039932143
169	minimi	-0.003527	-0.053947	-16.352034	-0.000159944715906	-0.000258430562985	-0.000003833923641
170	massimi	-0.000893	-0.040364	-15.164067	-0.000147056917417	0.000232089673765	-0.000003291504091
170	minimi	-0.003336	-0.044071	-16.384973	-0.000159830814733	0.000214098717821	-0.000004112253196
171	massimi	0.338121	0.291897	-15.683147	-0.000357526453214	0.00011759549693	-0.000078261717077
171	minimi	0.278792	0.282857	-16.949013	-0.000372507096149	0.000083058899587	-0.000088804166441
172	massimi	1.011215	0.245216	-15.848281	0.000192868074657	0.000559243067599	-0.000135024046664
172	minimi	0.860131	0.23542	-17.122638	0.000173125715038	0.000502595619844	-0.000149127472839
173	massimi	1.873977	0.228863	-15.961936	-0.000258994917641	0.000728619590898	-0.000174878448289
173	minimi	1.651048	0.208096	-17.242255	-0.000269646588074	0.000679598153817	-0.000191482134778
174	massimi	3.26832	-0.167209	-16.087884	-0.000030232495204	-0.000501974477924	-0.00015114097015
174	minimi	2.892948	-0.242621	-17.373433	-0.000032350058194	-0.000516844383749	-0.000169960763364
175	massimi	0.058396	-0.108365	-13.734515	-0.001117164993319	-0.000165624610857	-0.000026112549028
175	minimi	0.049099	-0.118474	-14.759362	-0.001205078787207	-0.000191397182193	-0.000028354804288
176	massimi	0.08324	-0.27594	-13.734515	-0.001117164993301	-0.000165624610852	-0.00002611254902
176	minimi	0.077809	-0.299236	-14.759362	-0.001205078787189	-0.000191397182188	-0.000028354804279
177	massimi	0.065869	-0.259435	-13.016185	-0.001188360713986	-0.000069766155277	-0.00002453369645
177	minimi	0.061807	-0.281316	-13.958322	-0.001281859814408	-0.000101988913706	-0.000026637670797
178	massimi	0.066334	-0.290614	-12.771243	-0.001187853791503	-0.000256434082085	-0.000023627846069
178	minimi	0.062236	-0.315171	-13.746363	-0.0012814211151529	-0.000274970802238	-0.000025655345397
179	massimi	0.099594	-0.290494	-14.200945	-0.001012419972842	-0.000259625777617	-0.000023372416751
179	minimi	0.092866	-0.315041	-15.288573	-0.001092000192068	-0.00027792965485	-0.000025382086545
180	massimi	0.100059	-0.259556	-14.445887	-0.001011913050359	-0.000066574459745	-0.000024278267132
180	minimi	0.093294	-0.281445	-15.500533	-0.001091561529189	-0.000099030061093	-0.000026364411945
181	massimi	0.315434	1.718359	-13.95514	-0.002025050014026	-0.001218954409661	-0.000279720495286
181	minimi	0.25893	1.604358	-14.99833	-0.002185958996185	-0.001419786965569	-0.000310861092824

182	massimi	1.680102	3.298204	-14.07213	-0.001770862854455	0.001314525423423	-0.000656200536944
182	minimi	1.534437	3.068287	-15.118547	-0.001889889864528	0.001173291544343	-0.000715480256162
183	massimi	1.788588	4.808085	-14.130091	-0.001855682173933	-0.002002976967936	-0.000685416590394
183	minimi	1.573865	4.465878	-15.179836	-0.002004904992469	-0.002132529301734	-0.000750829652289
184	massimi	-0.175652	0.068544	-19.076007	-0.000133354723579	0.001189640021365	0.000016726036286
184	minimi	-0.192265	0.062315	-20.620804	-0.000168168521913	0.001078396942555	0.000015517613786
185	massimi	-0.337412	0.043319	-19.076007	-0.000133354723577	0.001189640021335	0.000016726036281
185	minimi	-0.370711	0.042312	-20.620804	-0.00016816852191	0.001078396942527	0.000015517613781
186	massimi	-0.327032	0.03294	-18.12275	-0.000254136915876	0.001306017700891	0.000016022388438
186	minimi	-0.359501	0.032681	-19.559069	-0.000298763025744	0.001186026052072	0.000014857591922
187	massimi	-0.327098	0.05341	-19.502838	-0.000256993089879	0.001036996754139	0.000015880181549
187	minimi	-0.359568	0.051662	-21.081521	-0.000301913831137	0.000937893435577	0.000014718690824
188	massimi	-0.345489	0.052834	-19.6735	-0.000005651104486	0.001036551353618	0.000014663217432
188	minimi	-0.379395	0.051138	-21.296736	-0.000029296678472	0.000937540240682	0.000013611040606
189	massimi	-0.345554	0.033516	-18.293412	-0.000008507278489	0.001306463101412	0.000014805424321
189	minimi	-0.379463	0.033205	-19.774284	-0.000032447483864	0.001186379246967	0.000013749941704
190	massimi	0.429788	0.529787	-19.40825	0.001012822865834	0.002170949421476	0.000012501040934
190	minimi	0.362577	0.497886	-20.983544	0.000874381685994	0.001945698813907	0.000012476543114
191	massimi	0.956945	1.77443	-19.514576	-0.000891390615396	-0.0003367299743	0.000085301100681
191	minimi	0.801927	1.697704	-21.089106	-0.000970783795636	-0.000359421462169	0.000080186460451
192	massimi	1.862587	1.186878	-19.58705	0.002534490801159	0.002348191837041	0.000136433236844
192	minimi	1.629654	1.122246	-21.161043	0.002384155589755	0.002153638881667	0.000127710265643
193	massimi	-0.037778	0.015525	-17.827512	-0.000266796759632	-0.000717365954282	-0.000003427262992
193	minimi	-0.039626	0.014954	-19.3133	-0.000292422559726	-0.000768874996163	-0.00000363863964
194	massimi	0.075705	-0.025066	-17.827512	-0.000266796759628	-0.000717365954269	-0.000003427262991
194	minimi	0.069826	-0.028339	-19.3133	-0.000292422559721	-0.000768874996148	-0.000003638639638
195	massimi	0.073268	-0.02289	-17.950078	-0.000379444893446	-0.000591020259262	-0.000003299585754
195	minimi	0.067537	-0.026022	-19.437983	-0.000414837870765	-0.000631688562399	-0.000003508502798
196	massimi	0.073312	-0.027075	-17.032022	-0.000377544923307	-0.000821843102976	-0.000003217299993
196	minimi	0.067576	-0.030467	-18.454008	-0.000412801477032	-0.000882622655935	-0.000003415473279
197	massimi	0.077596	-0.026967	-17.373458	-0.000147915428692	-0.000822549724016	-0.000002988074968
197	minimi	0.071614	-0.03035	-18.828239	-0.000163129285313	-0.00088339714785	-0.00000316694977
198	massimi	0.07764	-0.022999	-18.291513	-0.000146015458553	-0.000590313638223	-0.000003070360729
198	minimi	0.071653	-0.02614	-19.812213	-0.00016109289158	-0.000630914070484	-0.00000325997929
199	massimi	0.352539	1.167964	-18.129314	0.000120060986748	-0.001447636027038	-0.00040556774006
199	minimi	0.292129	1.074456	-19.643051	0.000080177677184	-0.001604367795464	-0.000447150768666
200	massimi	1.547494	2.102601	-18.209962	-0.000617246286843	0.001419651958113	-0.000815369781771
200	minimi	1.382577	1.948513	-19.722872	-0.000675225412182	0.001280229563155	-0.00089691821841
201	massimi	1.851268	2.466194	-18.264407	0.000340809512112	-0.001563837828715	-0.001103103176585
201	minimi	1.627309	2.284824	-19.776735	0.000301316714649	-0.001677144292194	-0.001212712385251
202	massimi	-0.087386	0.024641	-18.698551	-0.000176844413664	-0.000534774886152	-0.000031898740462
202	minimi	-0.09376	0.023369	-20.249654	-0.00019495426834	-0.00058646678541	-0.000034990807763
203	massimi	-0.00579	-0.001886	-18.698551	-0.000176844413661	-0.000534774886144	-0.000031898740452
203	minimi	-0.00717	-0.005874	-20.249654	-0.000194954268337	-0.000586466785401	-0.000034990807752
204	massimi	-0.026121	0.018925	-18.741783	-0.000307138351418	-0.000405202173671	-0.000029258607015
204	minimi	-0.026582	0.01311	-20.32247	-0.000314370621905	-0.00044554909437	-0.000032090679731
205	massimi	-0.026112	-0.022684	-18.0574	-0.000305585072546	-0.00064804525072	-0.000029239323053
205	minimi	-0.026579	-0.02482	-19.571934	-0.000312954250932	-0.000709506326553	-0.000032084489293
206	massimi	0.015037	-0.022693	-18.306894	-0.000042712740295	-0.000648561594277	-0.000029262859805
206	minimi	0.01182	-0.024831	-19.798253	-0.000071011201299	-0.000709974705493	-0.000032103497402
207	massimi	0.01504	0.018934	-18.991277	-0.000041159461423	-0.000404685830114	-0.000029282143766
207	minimi	0.011829	0.013121	-20.548789	-0.000069594830326	-0.00044508071543	-0.00003210968784
208	massimi	-2.336785	0.529647	-19.01247	-0.001074927697376	-0.000187118620027	-0.000252302874209
208	minimi	-2.543637	0.497275	-20.591873	-0.00122138673926	-0.00022447227165	-0.000277410983105
209	massimi	-4.292415	0.020341	-19.116219	0.000475110895338	-0.00134183152422	-0.00049603924793
209	minimi	-4.664139	-0.007421	-20.701845	0.000422727822715	-0.001447784232214	-0.00054448633689
210	massimi	-5.473133	1.235961	-19.186883	-0.002789082367734	-0.000175251000901	-0.000667173297565
210	minimi	-5.951011	1.167473	-20.776879	-0.002951965881247	-0.000214318091951	-0.000732007329973
211	massimi	-0.043491	-0.01742	-14.085286	-0.00057103832917	-0.000959200286146	-0.000017546839781
211	minimi	-0.046833	-0.02119	-15.206415	-0.000623319381667	-0.001044331734477	-0.000019288041232
212	massimi	0.109817	-0.103076	-14.085286	-0.000571038329161	-0.000959200286128	-0.000017546839776
212	minimi	0.100389	-0.114688	-15.206415	-0.000623319381658	-0.001044331734457	-0.000019288041226
213	massimi	0.097893	-0.092221	-14.204303	-0.000653957015014	-0.000854983763273	-0.000016429692318
213	minimi	0.089541	-0.102752	-15.335551	-0.000713167184378	-0.000931273589707	-0.000018061431898
214	massimi	0.098071	-0.113248	-12.976758	-0.000651416537743	-0.001034176062692	-0.000016091315443
214	minimi	0.089701	-0.125864	-13.999059	-0.000710401233332	-0.001125553942821	-0.000017684936307
215	massimi	0.120834	-0.113092	-13.707549	-0.000473252299557	-0.00103568847873	-0.000015761760611
215	minimi	0.110411	-0.125693	-14.796757	-0.000517235946934	-0.001127204827151	-0.000017324431262
216	massimi	0.121013	-0.092377	-14.935094	-0.000470711822286	-0.000853471347235	-0.000016100137486

216	minimi	0.110571	-0.102922	-16.13325	-0.000514469995889	-0.000929622705378	-0.000017700926854
217	massimi	-2.348961	1.182334	-14.300214	-0.001209164768615	-0.001512815798924	0.000064730066664
217	minimi	-2.556793	1.087117	-15.440111	-0.001352730010679	-0.001634727162066	0.000058029780815
218	massimi	-4.359564	1.907545	-14.420118	-0.00000658757014	-0.000815542080035	0.000033522923249
218	minimi	-4.750171	1.748522	-15.571376	-0.000023094584683	-0.000892323791801	0.000032236445759
219	massimi	-5.499553	2.492137	-14.502126	-0.001085660085241	-0.001005092608805	0.000014126231784
219	minimi	-5.979277	2.308298	-15.66136	-0.001168941348805	-0.001065434728291	0.000011611524681
220	massimi	0.13563	-0.001902	-17.265487	-0.000508635407108	-0.000569689261753	-0.000024574085626
220	minimi	0.120956	-0.003608	-18.749355	-0.000555828007896	-0.000626681840532	-0.000027242143492
221	massimi	0.229633	-0.078197	-17.265487	-0.0005086354071	-0.000569689261737	-0.000024574085618
221	minimi	0.206409	-0.086982	-18.749355	-0.000555828007887	-0.000626681840514	-0.000027242143483
222	massimi	0.212603	-0.063163	-17.144274	-0.000613585262191	-0.000449731300849	-0.000023008974393
222	minimi	0.19105	-0.070314	-18.619987	-0.000670210538222	-0.00049584115669	-0.000025508923487
223	massimi	0.212738	-0.092713	-16.415209	-0.000612076419209	-0.000672280527256	-0.000022752269292
223	minimi	0.191171	-0.103073	-17.817985	-0.000668550748297	-0.000738418438394	-0.000025223379602
224	massimi	0.245005	-0.092392	-17.06614	-0.000389688896184	-0.000673627666857	-0.000022074672038
224	minimi	0.220279	-0.102716	-18.529311	-0.000426161125576	-0.000739890569336	-0.000024469545047
225	massimi	0.24514	-0.063484	-17.795205	-0.000388180053201	-0.000448384161248	-0.000022331377139
225	minimi	0.2204	-0.070671	-19.331313	-0.000424501335651	-0.000494369025749	-0.000024755088932
226	massimi	-1.54362	1.177041	-17.570835	-0.000564237428298	-0.000621960403952	-0.000356587407304
226	minimi	-1.672419	1.082525	-19.084208	-0.000620938700503	-0.000679645078644	-0.000394275877079
227	massimi	-2.799253	1.873155	-17.694895	-0.000585460981774	-0.000597944262321	-0.000684235300551
227	minimi	-3.020587	1.735034	-19.212878	-0.000298564779183	-0.00064074292204	-0.000753522003529
228	massimi	-3.340914	2.483114	-17.77982	-0.000647385711023	-0.00016563021433	-0.000914285949001
228	minimi	-3.616011	2.300105	-19.301039	-0.000713837770559	-0.000205297778209	-0.001005758645504
229	massimi	0.164616	-0.152602	-6.127308	-0.002482141464052	-0.000793304922127	0.000043522316885
229	minimi	0.14761	-0.166083	-6.549368	-0.002662305749861	-0.000860442951735	0.000038919383179
230	massimi	0.293682	-0.524923	-6.127308	-0.002482141464014	-0.000793304922106	0.000043522316871
230	minimi	0.266605	-0.565429	-6.549368	-0.00266230574982	-0.000860442951712	0.000038919383167
231	massimi	0.318152	-0.546121	-4.994668	-0.002481670612433	-0.000748188162353	0.000038512909118
231	minimi	0.288459	-0.589209	-5.340301	-0.002662043784047	-0.000811675356411	0.000034401564659
232	massimi	0.319031	-0.500244	-3.979429	-0.002479569515142	-0.000814238173687	0.000040369089726
232	minimi	0.289275	-0.537899	-4.239141	-0.002659764869213	-0.000882980369216	0.000036124774145
233	massimi	0.266386	-0.49983	-7.155971	-0.002409046558053	-0.000820812216734	0.000041333184697
233	minimi	0.242168	-0.537443	-7.646251	-0.002506062804652	-0.000890031584006	0.000036999981559
234	massimi	0.267265	-0.546535	-8.17121	-0.002406945460761	-0.000741614119307	0.000039477004089
234	minimi	0.242983	-0.589665	-8.74741	-0.002581408641618	-0.000804624141621	0.000035276772073
235	massimi	-1.54174	1.733379	-6.412337	-0.002119803208662	-0.001569049630487	-0.000416011335459
235	minimi	-1.670422	1.61822	-6.854625	-0.002286516881814	-0.001720412456239	-0.000456993053036
236	massimi	-2.323116	3.288089	-6.513772	-0.001292674561363	0.000017849771356	-0.001204347482863
236	minimi	-2.523536	3.058835	-6.962093	-0.001396171564882	0.00000679096016	-0.001315033141968
237	massimi	-3.348704	4.858395	-6.561917	-0.002060602804633	-0.001814156752202	-0.001082909082431
237	minimi	-3.624291	4.512774	-7.013018	-0.002222476119428	-0.001961740019453	-0.00119065623942
238	massimi	-0.026211	-0.154875	0.386953	-0.001073717019095	-0.000629767802893	0.000062048973496
238	minimi	-0.028236	-0.168567	0.314765	-0.001167801261333	-0.000695177125231	0.000056527410513
239	massimi	-2.353899	1.735788	0.296501	-0.001872067127808	-0.001316381995763	-0.000146389549745
239	minimi	-2.562235	1.620316	0.226161	-0.00201492946776	-0.00142502631016	-0.000163748312069
240	massimi	-4.098683	3.498849	0.251901	-0.000485848136013	-0.000820655877922	-0.000209087185902
240	minimi	-4.46248	3.250467	0.183784	-0.000527953729519	-0.00089494207246	-0.000226748279172
241	massimi	-5.5255	4.868575	0.222876	-0.001748760198845	-0.001479659836833	-0.000253108930438
241	minimi	-6.007242	4.522372	0.156322	-0.001876349756893	-0.00159272707694	-0.000270982298627
242	massimi	0.159146	-0.033023	-12.370496	-0.000685177639223	-0.001039749159241	0.000000914153444
242	minimi	0.142531	-0.036798	-13.358409	-0.000736694197888	-0.001132787894849	0.000000866893397
243	massimi	0.329064	-0.135799	-12.370496	-0.000685177639213	-0.001039749159215	0.000000914153443
243	minimi	0.298493	-0.147302	-13.358409	-0.000736694197877	-0.001132787894821	0.000000866893397
244	massimi	0.328374	-0.135661	-12.484691	-0.000754818610543	-0.000946100683809	0.000000125709457
244	minimi	0.297941	-0.147074	-13.489568	-0.000812381778722	-0.001031080891584	0.000000013297647
245	massimi	0.328603	-0.135037	-11.154063	-0.000752064796617	-0.001101701395775	0.000000571509539
245	minimi	0.298152	-0.146554	-12.039873	-0.00080938154828	-0.001199962419374	0.00000049685912
246	massimi	0.327343	-0.134574	-12.030925	-0.000597403180374	-0.001103516113977	0.000001577106001
246	minimi	0.296854	-0.146043	-12.982663	-0.000641549089229	-0.001201913581078	0.000001551397528
247	massimi	0.327572	-0.136125	-13.361553	-0.000594649366448	-0.000944285965607	0.000001105597446
247	minimi	0.297065	-0.147585	-14.432359	-0.000638548858786	-0.00102912972988	0.000001093544528
248	massimi	-1.546577	1.915259	-12.581639	-0.000959790225592	-0.001388491437848	0.000269865408799
248	minimi	-1.675709	1.777551	-13.588378	-0.001037754036548	-0.00152005589723	0.000249454416119
249	massimi	-2.438158	3.553927	-12.690127	-0.000769824871015	-0.000172397885478	0.000602792780629
249	minimi	-2.639434	3.292966	-13.702676	-0.000832778893117	-0.000178637025975	0.000554579750625
250	massimi	-3.352055	4.817958	-12.764119	-0.001057616635771	-0.001514196391476	0.000836550297021
250	minimi	-3.628102	4.460856	-13.780747	-0.001145161416922	-0.001651345591238	0.000768816687619

251	massimi	-0.02757	0.018913	-4.87654	-0.000757000163189	-0.002290610199671	0.000036102368905
251	minimi	-0.02973	0.017462	-5.231342	-0.000823160887005	-0.002465108418764	0.000033395830265
252	massimi	0.340036	-0.096088	-4.87654	-0.000757000163178	-0.002290610199625	0.000036102368894
252	minimi	0.316021	-0.104561	-5.231342	-0.000823160886992	-0.002465108418715	0.000033395830255
253	massimi	0.360298	-0.115384	-5.818037	-0.000776313577669	-0.002228880191992	0.00003238696571
253	minimi	0.334759	-0.125421	-6.238712	-0.000844106303518	-0.002398396921662	0.000029957582197
254	massimi	0.36046	-0.076154	-2.886608	-0.000770246812228	-0.002282512088286	0.000032730217593
254	minimi	0.334909	-0.083008	-3.083968	-0.000837577373119	-0.002456672304896	0.00003027301806
255	massimi	0.317357	-0.075663	-3.855386	-0.000720676738574	-0.002284517031087	0.000033846482803
255	minimi	0.295038	-0.08248	-4.137415	-0.000783650748371	-0.002458852476809	0.000031310447339
256	massimi	0.31752	-0.115875	-6.786814	-0.000714609973133	-0.002226875249191	0.00003350323092
256	minimi	0.295187	-0.125949	-7.29216	-0.000777121817972	-0.002396216749749	0.000030995011476
257	massimi	-2.354459	2.018667	-5.209932	-0.001228558531973	-0.001687174019456	0.00008673836726
257	minimi	-2.562716	1.854951	-5.590643	-0.001339633483544	-0.001828403268768	0.000084251202098
258	massimi	-4.01142	3.812474	-5.328247	-0.00060130786462	-0.000639243089222	0.000275751070427
258	minimi	-4.354696	3.514481	-5.719609	-0.000629361463419	-0.000693760339837	0.000256813279876
259	massimi	-5.520074	4.437952	-5.409028	-0.00034825123008	-0.001924488051237	0.000408462117332
259	minimi	-6.001482	4.148991	-5.807869	-0.000391823725528	-0.002104949458032	0.000377973887678
260	massimi	1.642813	-0.840208	-9.46082	0.000287916095745	0.000852171001194	0.000174415319342
260	minimi	1.455105	-0.939755	-9.99261	0.000262073405211	0.000817535060769	0.000152050363492
261	massimi	4.027046	-0.965007	-10.986264	0.000251356185986	0.001936249561023	0.000298686965604
261	minimi	3.572604	-1.076466	-11.773866	0.000225933555905	0.001849439650346	0.000265735454337
262	massimi	1.535721	-0.108563	-10.284877	0.000459068236334	-0.000680135188152	0.000222706026788
262	minimi	1.350127	-0.179728	-10.905302	0.00041437096548	-0.000699175667652	0.000204438622371
263	massimi	3.961147	0.059403	-15.175185	0.000483273242267	-0.001270273897048	0.000342924029613
263	minimi	3.512506	0.00948	-16.416989	0.000430497545597	-0.001294861662114	0.000310194898832
264	massimi	6.15794	-0.078741	-17.413411	0.000214026117211	-0.001161754500081	0.000180711247769
264	minimi	5.484642	-0.143869	-18.995239	0.000187683958306	-0.001167785814113	0.000163616251685
265	massimi	6.214242	-0.777454	-11.091522	0.000088646395348	0.002152475459796	0.000163453923088
265	minimi	5.535728	-0.861511	-11.892844	0.000079335096496	0.0020408676055	0.000148902658835
266	massimi	6.452041	-0.456621	-11.046425	0.000061450183274	0.00218879161751	-0.000071924044859
266	minimi	5.744753	-0.50893	-11.841511	0.000055779912029	0.002072916901229	-0.000079206210791
267	massimi	6.395658	-0.28978	-17.816066	0.000113029126456	-0.001129117092429	-0.000039041573992
267	minimi	5.693629	-0.37913	-19.453952	0.000100167901972	-0.001130648855924	-0.000044723862791
268	massimi	5.063351	-0.270745	-10.951461	-0.000018991767	0.002127256633363	-0.000163616251685
268	minimi	4.484866	-0.295461	-11.723845	-0.000022666784342	0.002015576247794	-0.000218893990182
269	massimi	5.002935	-0.389802	-17.382475	-0.000035393770757	-0.001128479178903	-0.000151106052128
269	minimi	4.429876	-0.491287	-18.963135	-0.00003745994826	-0.001131866371922	-0.000169555557871
270	massimi	3.364823	-0.490596	-10.578804	-0.000052441023326	0.001261978565722	-0.00001075336292
270	minimi	2.984195	-0.532668	-11.214113	-0.000054136385676	0.001186544961372	-0.000022678440496
271	massimi	3.26832	-0.363693	-15.423681	-0.000030232495204	-0.000493722775789	-0.00015114097015
271	minimi	2.892948	-0.46357	-16.728911	-0.00003273205058194	-0.000508951675132	-0.000169960763364
272	massimi	0.051317	0.016503	-12.68375	0.000120341033841	0.000124371084053	0.000006219409376
272	minimi	0.044759	0.015764	-13.972133	0.000108705767621	0.00010980693733	0.00000585158787
273	massimi	0.032662	0.034555	-12.68375	0.000120341033839	0.000124371084052	0.000006219409374
273	minimi	0.028288	0.03207	-13.972133	0.000108705767619	0.000109806937329	0.000005851587868
274	massimi	0.036279	0.030767	-12.567312	0.000029087495807	0.000212218722673	0.000005708175059
274	minimi	0.031699	0.028505	-13.841294	0.000026359326682	0.000189112121872	0.000005373872968
275	massimi	0.036225	0.038113	-12.707838	0.000028758094412	0.000032732054449	0.000005594739729
275	minimi	0.031649	0.035421	-14.000459	0.000026068498966	0.000027154342613	0.000005268595103
276	massimi	0.028881	0.038164	-12.568721	0.000208255436372	0.000033050782108	0.000005701960708
276	minimi	0.024739	0.035465	-13.846452	0.000188029194714	0.00002744225384	0.00000536145703
277	massimi	0.028828	0.030716	-12.428195	0.000207926034977	0.000211899995014	0.000005815396037
277	minimi	0.024689	0.028461	-13.687287	0.000187738366998	0.000188824210645	0.000005466734895
278	massimi	0.470284	-0.333659	-12.866174	0.00023712087752	0.000020915853071	0.000003669021107
278	minimi	0.413103	-0.364089	-14.177801	0.000219539788451	0.000020055729237	0.0000009358859
279	massimi	0.037197	0.015226	-19.038514	0.000082992494078	0.000393613079618	0.000004057590424
279	minimi	0.03328	0.01413	-21.397998	0.000072577122546	0.000344974522488	0.000003853358165
280	massimi	-0.018466	0.027675	-19.038514	0.000082992494077	0.000393613079612	0.000004057590423
280	minimi	-0.021845	0.025017	-21.397998	0.000072577122544	0.000344974522482	0.000003853358164
281	massimi	-0.016094	0.025154	-18.686695	-0.000052060578326	0.00052773431045	0.000003803311998
281	minimi	-0.019338	0.022628	-20.998781	-0.000057762125647	0.000463800746118	0.000003606060083
282	massimi	-0.016132	0.030014	-19.128179	-0.000052974256049	0.000247492748727	0.000003712459856
282	minimi	-0.019381	0.02724	-21.502511	-0.000058804624379	0.000215631921156	0.000003523934834
283	massimi	-0.020677	0.02998	-19.035298	0.000222259627401	0.000247712557403	0.000003640748174
283	minimi	-0.024164	0.027211	-21.3963	0.000195916023455	0.000215824144337	0.000003463315345
284	massimi	-0.020716	0.025187	-18.593814	0.000221217128669	0.000527514501774	0.000003731600316
284	minimi	-0.024207	0.022657	-20.89257	0.000195002345732	0.000463608522937	0.000003545440593
285	massimi	1.079298	-0.242915	-19.348396	0.000188807328619	0.000168995710254	-0.000018609837225

285	minimi	0.942738	-0.277365	-21.753091	0.000166454175307	0.000160416556879	-0.00002320747949
286	massimi	0.050284	0.008768	-19.45586	0.000016404887168	0.00058446476739	0.000005069987116
286	minimi	0.045169	0.008446	-21.873164	0.000011680312184	0.000512193560016	0.00000479304058
287	massimi	-0.03166	0.011229	-19.45586	0.000016404887168	0.00058446476738	0.000005069987114
287	minimi	-0.037386	0.010198	-21.873164	0.000011680312184	0.000512193560007	0.000004793040578
288	massimi	-0.028697	0.008148	-18.954016	-0.00011464181552	0.00071881552259	0.000004730498464
288	minimi	-0.034238	0.007289	-21.304597	-0.000126308762453	0.000631224419389	0.000004465363998
289	massimi	-0.028713	0.014236	-19.609501	-0.000115998379019	0.000432296892819	0.000004693635374
289	minimi	-0.034255	0.013039	-22.052571	-0.000127856738906	0.000377548733286	0.000004431886847
290	massimi	-0.034398	0.014178	-19.594553	0.00016016641837	0.000432340341767	0.00000457090587
290	minimi	-0.040268	0.01299	-22.031576	0.000139002934846	0.000377579669023	0.000004327953894
291	massimi	-0.034413	0.008206	-18.939068	0.000158618441917	0.000718772073642	0.00000460776896
291	minimi	-0.040286	0.007338	-21.283602	0.000137646371346	0.000631193483652	0.000004361431045
292	massimi	1.568673	-0.046837	-19.77208	0.000047277661116	0.000264159333964	0.000003418304371
292	minimi	1.378064	-0.062377	-22.235432	0.000038861075201	0.000242461095444	0.000002063506247
293	massimi	0.02284	0.000503	-19.502751	0.000002757861776	0.00059843449078	0.000009124694863
293	minimi	0.019779	0.00004	-21.927908	0.000000608799601	0.000523890658011	0.000008465548166
294	massimi	-0.058804	0.000594	-19.502751	0.000002757861776	0.000598434490769	0.00000912469486
294	minimi	-0.066925	0.000453	-21.927908	0.000000608799601	0.000523890658001	0.000008465548164
295	massimi	-0.053574	-0.004488	-18.985883	-0.000125847508708	0.000732925992108	0.000008480681625
295	minimi	-0.061276	-0.005027	-21.341137	-0.000140101025279	0.000643046991101	0.000007862947922
296	massimi	-0.053575	0.00593	-19.656336	-0.000127235052403	0.000445700009972	0.000008479193558
296	minimi	-0.061277	0.005672	-22.106989	-0.000141686001059	0.000388763777315	0.000007860998135
297	massimi	-0.063643	0.005826	-19.655557	0.000147117652559	0.00044570731427	0.000008259494317
297	minimi	-0.072129	0.005581	-22.103459	0.00012843409265	0.000388765389743	0.000007667956714
298	massimi	-0.063644	-0.004397	-18.985103	0.000145532676779	0.00073291868781	0.000008260982384
298	minimi	-0.07213	-0.004923	-21.337607	0.000127046548956	0.000643045378673	0.000007669906501
299	massimi	1.54054	-0.022584	-19.819642	0.000012933312579	0.000286792944568	0.000038974440662
299	minimi	1.349506	-0.031291	-22.290965	0.000009689131642	0.000261890393058	0.000036925512909
300	massimi	-0.041477	-0.010836	-19.402377	-0.000023439632926	0.00047097723396	0.000012557949213
300	minimi	-0.045452	-0.012455	-21.810516	-0.000023727511798	0.000408056191644	0.000011558883418
301	massimi	-0.102686	-0.014395	-19.402377	-0.000023439632926	0.000470977233949	0.000012557949209
301	minimi	-0.116098	-0.015971	-21.810516	-0.000023727511797	0.000408056191635	0.000011558883415
302	massimi	-0.095482	-0.021301	-18.945032	-0.000149284661094	0.000606579607887	0.000011683762579
302	minimi	-0.108257	-0.023476	-21.289681	-0.000165270828163	0.000528264260405	0.000010747890407
303	massimi	-0.09546	-0.007393	-19.467245	-0.00015036541294	0.000321017351985	0.000011736191015
303	minimi	-0.108233	-0.008359	-21.892418	-0.000166518228706	0.000275408731692	0.000010795145379
304	massimi	-0.10923	-0.007553	-19.497611	0.000120353508471	0.000320955271254	0.000011355065837
304	minimi	-0.123194	-0.00854	-21.922415	0.000103633710807	0.000275345888504	0.000010458050725
305	massimi	-0.109208	-0.021141	-18.975397	0.000119106107928	0.000606641688618	0.000011302637401
305	minimi	-0.123169	-0.023296	-21.319678	0.000102552958961	0.000528327103593	0.000010410795754
306	massimi	0.990431	0.057145	-19.717763	-0.000057623260219	0.000302669924919	0.000066200452826
306	minimi	0.849667	0.055594	-22.171787	-0.000062273082461	0.000276090394551	0.000060600439814
307	massimi	-0.035178	0.076008	-9.910374	0.000121510222742	0.000243497616336	-0.000002510286749
307	minimi	-0.039862	0.06953	-10.470152	0.000106289070432	0.000232140546837	-0.000002973137639
308	massimi	-0.03528	0.074107	-10.021092	0.000106218027464	0.000136034774387	-0.000002781362316
308	minimi	-0.039974	0.067923	-10.585794	0.000091903329761	0.000131069111016	-0.000003278070566
309	massimi	-0.035391	0.072052	-10.073628	0.000120075002569	0.000029027217605	-0.000002769887275
309	minimi	-0.040095	0.066176	-10.639591	0.000104906239954	0.000027564708246	-0.000003256371913
310	massimi	-0.03387	0.069915	-10.000694	0.000169607069694	-0.000028176849713	-0.00000285654549
310	minimi	-0.038305	0.064353	-10.555304	0.00015151771923	-0.000033216431636	-0.000003352243634
311	massimi	-0.032333	0.069896	-9.901503	0.000226178990636	-0.000027297705901	-0.000002790972723
311	minimi	-0.036498	0.064337	-10.445181	0.000204746182317	-0.000032238756383	-0.00000328848893
312	massimi	-0.03077	0.069851	-9.776174	0.000281811796362	-0.000026296110279	-0.000002895879291
312	minimi	-0.034661	0.064297	-10.307282	0.000257124521108	-0.000031138816601	-0.000003396643801
313	massimi	-0.029192	0.072005	-9.622975	0.000331329369851	0.000030885604803	-0.000002885964247
313	minimi	-0.032807	0.066134	-10.141764	0.000303722880171	0.000029617631217	-0.000003387400106
314	massimi	-0.029301	0.074107	-9.570113	0.000344070143127	0.000136034774387	-0.000002768967986
314	minimi	-0.032926	0.067923	-10.087606	0.000315715360249	0.000131069111016	-0.000003264079792
315	massimi	-0.029406	0.076056	-9.459722	0.000329894149678	0.000241444693365	-0.000002626363721
315	minimi	-0.03304	0.069572	-9.972325	0.000302340049692	0.000230282159638	-0.000003104165832
316	massimi	-0.030882	0.077929	-9.44915	0.000280685670721	0.000301207063791	-0.000002536856137
316	minimi	-0.034783	0.071152	-9.967868	0.000256039502315	0.000286506084033	-0.000003004935572
317	massimi	-0.032333	0.077902	-9.574457	0.000226178990636	0.000301978295573	-0.000002763169608
317	minimi	-0.036498	0.071129	-10.105745	0.000204746182317	0.000287190970449	-0.00000325815465
318	massimi	-0.033758	0.077866	-9.67367	0.000170733195335	0.000303284678826	-0.000002497522335
318	minimi	-0.038183	0.071096	-10.215891	0.000152602738022	0.000288386823467	-0.000002960535405
319	massimi	0.083892	0.144056	-10.5501	0.000136142241077	0.000241144470685	0.000008595411599
319	minimi	0.07345	0.131858	-11.166373	0.000115818326804	0.000207392608267	0.000007676917161

320	massimi	0.083645	0.149477	-10.642937	0.000119828384076	0.000125755719308	0.000008698626586
320	minimi	0.073224	0.136698	-11.27787	0.000100637302019	0.000099086609961	0.000007759820374
321	massimi	0.083423	0.154589	-10.673517	0.000134815469889	0.000009435855071	0.000008024113919
321	minimi	0.073021	0.141255	-11.323009	0.000114772924973	-0.000009953039407	0.000007154461415
322	massimi	0.078909	0.159614	-10.568492	0.000187931239015	-0.000055697497602	0.000007998537875
322	minimi	0.068995	0.145733	-11.216716	0.000164599011759	-0.00007100942891	0.000007127535738
323	massimi	0.074387	0.159685	-10.461088	0.000248550963311	-0.000054597099501	0.000008659743649
323	minimi	0.064964	0.145795	-11.095335	0.000221386270942	-0.000070008388619	0.000007724715247
324	massimi	0.069804	0.159743	-10.325725	0.000308138678565	-0.000053414379581	0.000008089030586
324	minimi	0.060878	0.145845	-10.94416	0.000277254311666	-0.000068975837979	0.000007206564729
325	massimi	0.065161	0.154685	-10.186239	0.00036123852703	0.000011691837327	0.000008291165923
325	minimi	0.05674	0.141339	-10.775941	0.000327066217795	-0.000007943618513	0.000007387682963
326	massimi	0.064934	0.149477	-10.155305	0.000374998999226	0.000125755719308	0.000008670112295
326	minimi	0.056533	0.136698	-10.730405	0.000340109286486	0.000099086609961	0.000007734918306
327	massimi	0.064692	0.14396	-10.062821	0.000359911755843	0.000238888488429	0.000008862463603
327	minimi	0.056311	0.131774	-10.619305	0.000326020815965	0.000205383187373	0.000007910138709
328	massimi	0.069558	0.138337	-10.078499	0.000307097645036	0.000303075736552	0.000008879123194
328	minimi	0.060654	0.126751	-10.630393	0.000276434050895	0.000265691324451	0.000007929109975
329	massimi	0.074387	0.138431	-10.213845	0.000248550963311	0.000303954588871	0.000008720925764
329	minimi	0.064964	0.126834	-10.781548	0.000221386270942	0.00026648444892	0.000007780666721
330	massimi	0.079155	0.138465	-10.321266	0.000188972272544	0.000305358854573	0.000008788630483
330	minimi	0.06922	0.126863	-10.902949	0.000165419272529	0.000267724915382	0.000007850080985
331	massimi	-0.083718	0.039897	-12.378785	-0.000022560600945	0.00037112335322	0.000002048548252
331	minimi	-0.09864	0.036193	-13.226915	-0.000025088628931	0.000351236325419	0.000002040643135
332	massimi	-0.083776	0.041126	-12.55374	-0.000042581977216	0.000230127207833	0.000001858384936
332	minimi	-0.098704	0.037435	-13.410952	-0.000043736862193	0.00022010239535	0.00000181263203
333	massimi	-0.083835	0.042269	-12.652935	-0.00002498853316	0.000087427162161	0.000001905473767
333	minimi	-0.09877	0.038599	-13.513551	-0.000027410795446	0.000087338790382	0.00000188346277
334	massimi	-0.084894	0.043337	-12.679036	0.000040521489362	0.000012425510767	0.000001775161298
334	minimi	-0.099816	0.039696	-13.535116	0.000033542764661	0.000006928392212	0.000001732787013
335	massimi	-0.085909	0.043252	-12.639667	0.000115110504503	0.000012759344166	0.000001868476719
335	minimi	-0.10081	0.039624	-13.49036	0.000102952483855	0.000007315455781	0.000001824795046
336	massimi	-0.086852	0.043162	-12.566141	0.000189221570626	0.000013371202619	0.000001670652289
336	minimi	-0.101721	0.039548	-13.408889	0.000171934735211	0.000007985764138	0.000001610150399
337	massimi	-0.087762	0.042139	-12.426334	0.000254724216823	0.00008847196742	0.000001597059919
337	minimi	-0.102592	0.038488	-13.260189	0.000232881698084	0.000088273242863	0.000001521553013
338	massimi	-0.087815	0.041126	-12.326974	0.000271749586209	0.000230127207833	0.000001891316387
338	minimi	-0.102651	0.037435	-13.157406	0.000248699690449	0.00022010239535	0.000001851275604
339	massimi	-0.087879	0.040027	-12.152184	0.000252296284608	0.000370078547962	0.000001740134404
339	minimi	-0.102721	0.036304	-12.973553	0.000230559531569	0.000350301872938	0.000001678733378
340	massimi	-0.086913	0.038848	-12.016974	0.000187316527223	0.000448883091126	0.000001868521892
340	minimi	-0.101788	0.035103	-12.83471	0.000170112679401	0.000423595509624	0.000001827528198
341	massimi	-0.085909	0.038769	-12.090465	0.000115110504503	0.000448997330974	0.000001883799941
341	minimi	-0.10081	0.035036	-12.916143	0.000102952483855	0.000423675523051	0.000001841629002
342	massimi	-0.084833	0.038674	-12.129869	0.000042426532765	0.000449940463052	0.0000019730309
342	minimi	-0.099748	0.034954	-12.960937	0.000035364820472	0.000424541201475	0.000001950164811
343	massimi	0.056096	0.121106	-15.668193	0.000007193542923	0.000464322819178	0.000008038424701
343	minimi	0.046992	0.109839	-16.860488	-0.000003911867501	0.000404584767709	0.000007229884231
344	massimi	0.055887	0.126121	-15.863592	-0.000018776113078	0.000281202150421	0.000008116270268
344	minimi	0.046803	0.11439	-17.088461	-0.00002774758599	0.000235379320507	0.0000072909759
345	massimi	0.0557	0.130921	-15.961371	0.000004226752123	0.000095999421776	0.000007556393772
345	minimi	0.046633	0.118703	-17.21074	-0.000006395209828	0.000064431092031	0.000006792690293
346	massimi	0.051457	0.135643	-15.949075	0.000089183317862	-0.000008356999806	0.00000751596161
346	minimi	0.042819	0.122944	-17.207677	0.00007205763404	-0.00003188124526	0.000006751526478
347	massimi	0.047216	0.135688	-15.882621	0.000185939537057	-0.000007665744239	0.000008086978552
347	minimi	0.039008	0.122982	-17.129539	0.000161316120682	-0.000031261211536	0.000007265092302
348	massimi	0.042935	0.135725	-15.77218	0.000281923716261	-0.000006649012429	0.000007573399909
348	minimi	0.035165	0.123011	-17.00378	0.000249904806278	-0.00003039944154	0.000006798980269
349	massimi	0.03861	0.130982	-15.606309	0.000366868371847	0.000097687109044	0.000007725899277
349	minimi	0.031283	0.118753	-16.801482	0.000328347317218	0.000065895283926	0.00000693273063
350	massimi	0.03842	0.126121	-15.508273	0.0003889536145	0.000281202150421	0.000008098171436
350	minimi	0.031111	0.11439	-16.678905	0.000348903588839	0.000235379320507	0.00000727602319
351	massimi	0.038214	0.120999	-15.313131	0.000363901581047	0.00046263513191	0.000008207930207
351	minimi	0.030924	0.109789	-16.451229	0.000325863974891	0.000403120575814	0.000007369924568
352	massimi	0.042728	0.115779	-15.184896	0.000279595862954	0.000564916348844	0.000008240038489
352	minimi	0.034977	0.105098	-16.302166	0.000247956284445	0.000497695250301	0.000007403610238
353	massimi	0.047216	0.115847	-15.295299	0.000185939537057	0.000565253602827	0.000008138600802
353	minimi	0.039008	0.105156	-16.42788	0.000161316120682	0.000497988265652	0.000007311912814
354	massimi	0.051665	0.115861	-15.361792	0.000091511171169	0.000566624336221	0.00000818260019

354	minimi	0.043007	0.105166	-16.506063	0.000074006155873	0.000499177054022	0.000007356156448
355	massimi	0.131372	0.200424	-15.907038	-0.000270556672964	0.000275502574988	0.000028323618306
355	minimi	0.113444	0.184734	-17.039879	-0.000284948261073	0.000236592177134	0.000025876869409
356	massimi	0.13125	0.209685	-15.970382	-0.000279938520784	0.000193678271499	0.000028699779141
356	minimi	0.113332	0.193194	-17.114847	-0.000295070814677	0.000160474508036	0.000026206414566
357	massimi	0.131142	0.218816	-16.011239	-0.000271031802378	0.000111542023501	0.000027902673775
357	minimi	0.113232	0.201533	-17.165639	-0.000285521699463	0.000084098373487	0.000025489031889
358	massimi	0.122014	0.227906	-16.110077	-0.000219989600548	0.000056582925859	0.000027824949435
358	minimi	0.104894	0.209833	-17.276861	-0.000230642366347	0.000032985287555	0.0000254114381
359	massimi	0.112885	0.227962	-16.167917	-0.000143442527219	0.000046242554295	0.000028706111021
359	minimi	0.096556	0.209882	-17.33713	-0.000148313764204	0.000023375405745	0.00002621273581
360	massimi	0.103685	0.228029	-16.203219	-0.000065746283099	0.00005614380171	0.000028051566829
360	minimi	0.088158	0.209939	-17.373165	-0.0000666644207	0.000032560586058	0.00002560527489
361	massimi	0.094418	0.21889	-16.197679	-0.000010764359644	0.000111136305758	0.000028310569891
361	minimi	0.0797	0.201596	-17.358412	-0.000015522998022	0.000083705981191	0.000025837925115
362	massimi	0.094315	0.209685	-16.156847	-0.00000968070681	0.000193678271499	0.000028685011115
362	minimi	0.079605	0.193194	-17.307645	-0.000006377224073	0.000160474508036	0.00002619378276
363	massimi	0.094188	0.20035	-16.093479	-0.000011337798034	0.000275908292732	0.000028731514421
363	minimi	0.079489	0.184671	-17.232651	-0.000015998127435	0.00023698456943	0.000026225762635
364	massimi	0.103549	0.190952	-15.99464	-0.000066276097117	0.000330766827288	0.000028809238761
364	minimi	0.088032	0.176089	-17.12143	-0.000067103404604	0.000288018962498	0.000026303356423
365	massimi	0.112885	0.191027	-15.959312	-0.000143442527219	0.000340345298292	0.000028678679235
365	minimi	0.096556	0.176155	-17.085362	-0.000148313764204	0.000296936702455	0.000026187461516
366	massimi	0.122151	0.191076	-15.901499	-0.000219550616644	0.000330327703139	0.000028582621367
366	minimi	0.10502	0.176195	-17.025126	-0.00023011255233	0.000287594261	0.000026109519634
367	massimi	-0.092723	0.009293	-12.541728	-0.000109224739329	0.000510748603296	0.00000224706557
367	minimi	-0.108668	0.008602	-13.412958	-0.000116141799231	0.000475396050367	0.00000194840464
368	massimi	-0.092737	0.010651	-12.793164	-0.000128814497199	0.000366333142413	0.000002063925432
368	minimi	-0.108684	0.009781	-13.682995	-0.000137226954278	0.000341242823719	0.00000179159388
369	massimi	-0.092753	0.011988	-12.966765	-0.000112824984831	0.000219205289755	0.000002206356535
369	minimi	-0.108702	0.01094	-13.869247	-0.000120006757426	0.000204562978209	0.000001911021838
370	massimi	-0.093806	0.013271	-13.111787	-0.000049965367591	0.000135771636268	0.000002065670762
370	minimi	-0.109916	0.012052	-14.023941	-0.000052344455335	0.000127049416652	0.000001790416697
371	massimi	-0.094811	0.013173	-13.117438	0.000024871381993	0.000135583866188	0.000002084467056
371	minimi	-0.111076	0.011968	-14.029235	0.000021769556066	0.000126867732372	0.000001809007045
372	massimi	-0.095738	0.013079	-13.087915	0.000101983951138	0.000136000097616	0.000001930545358
372	minimi	-0.112144	0.011887	-13.996667	0.000093414090597	0.000127249385521	0.000001675077603
373	massimi	-0.096626	0.011845	-12.918849	0.000169644659462	0.000219431035883	0.00000180759143
373	minimi	-0.113166	0.010817	-13.814504	0.000156272312835	0.000204760570485	0.000001570647602
374	massimi	-0.096636	0.010651	-12.745213	0.000186742115107	0.000366333142412	0.000002106504303
374	minimi	-0.113176	0.009781	-13.628213	0.000172154391626	0.000341242823719	0.00000182793796
375	massimi	-0.096657	0.009436	-12.493812	0.000165779701267	0.000510522857168	0.000001848300465
375	minimi	-0.113199	0.008725	-13.358216	0.000152672067334	0.00047519845809	0.000001608030404
376	massimi	-0.095754	0.008162	-12.236497	0.000098951365193	0.000591276807168	0.000001986845268
376	minimi	-0.112161	0.007617	-13.082647	0.000090589207802	0.000550216002895	0.000001726777389
377	massimi	-0.094811	0.00807	-12.265964	0.000024871381993	0.000590807848504	0.000002088826977
377	minimi	-0.111076	0.007539	-13.115155	0.000021769556066	0.000549773093013	0.000001813010729
378	massimi	-0.09379	0.00797	-12.260369	-0.000047140484796	0.000591505268516	0.000002121970671
378	minimi	-0.109899	0.007453	-13.109921	-0.000049311869389	0.000550415971764	0.000001842116483
379	massimi	0.034532	0.067987	-17.417205	-0.000171485835641	0.000565596788482	0.00000347220599
379	minimi	0.026891	0.061708	-18.887475	-0.000179701236211	0.000498930437523	0.000003211033977
380	massimi	0.034416	0.070176	-17.664152	-0.000198342401793	0.000357127264675	0.000003495972022
380	minimi	0.026787	0.06373	-19.170183	-0.000209127772606	0.000307775720338	0.000003225035938
381	massimi	0.034311	0.072219	-17.800557	-0.00017473298782	0.000146013520859	0.000003203996689
381	minimi	0.026691	0.065619	-19.332297	-0.000183469066157	0.000114342188852	0.00000296746129
382	massimi	0.032505	0.074219	-17.904523	-0.000085640145862	0.000026529581348	0.000003187275597
382	minimi	0.02502	0.067468	-19.455064	-0.000086260083038	0.000004878548382	0.00000294687464
383	massimi	0.030697	0.07425	-17.920994	0.000024166767925	0.000026411563189	0.000003478124242
383	minimi	0.023348	0.067492	-19.469051	0.000015497523498	0.000004763481923	0.00000320973076
384	massimi	0.028863	0.074272	-17.887529	0.000134493275993	0.000026751570363	0.000003224618681
384	minimi	0.021657	0.067509	-19.428563	0.000116570845554	0.000005020904198	0.000002975277511
385	massimi	0.027004	0.072258	-17.766446	0.000231700711137	0.000146232871446	0.000003314199436
385	minimi	0.019945	0.065649	-19.279105	0.000205662694835	0.000114482852713	0.000003051280676
386	massimi	0.026897	0.070176	-17.630017	0.000257240153165	0.000357127264675	0.000003484205201
386	minimi	0.019848	0.06373	-19.116952	0.000229195627618	0.000307775720338	0.000003216086182
387	massimi	0.026784	0.067948	-17.383095	0.000227932881191	0.000565377437895	0.000003582408737
387	minimi	0.019745	0.061678	-18.834283	0.000202415542655	0.000498789773663	0.000003294853363
388	massimi	0.028748	0.065668	-17.119612	0.000131536897876	0.000682249006314	0.000003595546471
388	minimi	0.021552	0.059578	-18.537512	0.000114023010385	0.000606002629403	0.000003312133385

389	massimi	0.030697	0.065708	-17.153028	0.000024166767925	0.000681726075359	0.000003506847643
389	minimi	0.023348	0.05961	-18.577942	0.000015497523498	0.000605516363277	0.000003235815746
390	massimi	0.032621	0.065721	-17.136606	-0.000083092310693	0.000682470995329	0.000003558203388
390	minimi	0.025124	0.059618	-18.564013	-0.00008330370492	0.000606144985219	0.000003283730515
391	massimi	0.085264	0.189894	-19.847729	-0.000142860310006	0.000669122564752	0.000009596730871
391	minimi	0.072002	0.175077	-21.408182	-0.000144962501913	0.000571727547815	0.000008159377893
392	massimi	0.085156	0.193041	-20.016406	-0.000155231981136	0.000565460812873	0.000009677381148
392	minimi	0.071903	0.177752	-21.607094	-0.000158435701839	0.000475929043082	0.000008213162365
393	massimi	0.085052	0.196067	-20.156762	-0.000144269430308	0.000460888311459	0.000009209200959
393	minimi	0.071807	0.180317	-21.775351	-0.000146636705921	0.000379363991587	0.000007802538804
394	massimi	0.082028	0.199046	-20.306059	-0.00007702532115	0.000391151536907	0.000009117636119
394	minimi	0.069243	0.182837	-21.950191	-0.000079963711419	0.000314951201606	0.00000771335484
395	massimi	0.079003	0.199091	-20.314785	0.000027849560851	0.000378108686534	0.000009684840556
395	minimi	0.06668	0.182874	-21.956522	0.000016859544687	0.00030292651594	0.000008220427813
396	massimi	0.075929	0.199133	-20.295112	0.000132679587446	0.000391233993277	0.000009276234747
396	minimi	0.064076	0.18291	-21.932108	0.000113655646264	0.000315001118977	0.000007847215334
397	massimi	0.072807	0.196118	-20.134849	0.000202271708355	0.000460964494954	0.000009494667855
397	minimi	0.061429	0.18036	-21.739153	0.000177949703212	0.00037941011149	0.000008043478718
398	massimi	0.072706	0.193041	-19.99449	0.000214024291316	0.000565460812873	0.000009667045716
398	minimi	0.061336	0.177752	-21.570891	0.000188884156601	0.000475929043082	0.000008204439049
399	massimi	0.072595	0.189842	-19.825816	0.000200597504347	0.000669046381256	0.000009882197767
399	minimi	0.061234	0.175034	-21.371984	0.00017654058291	0.000571681427912	0.000008400317808
400	massimi	0.075803	0.186589	-19.676519	0.000131132748647	0.000738385747175	0.000009973762606
400	minimi	0.06396	0.172265	-21.197144	0.000112353724906	0.000635761214824	0.000008489501772
401	massimi	0.079003	0.18664	-19.696111	0.000027849560851	0.000750568679689	0.000009659586308
401	minimi	0.06668	0.172308	-21.221463	0.000016859544687	0.000647042653676	0.000008197173601
402	massimi	0.082153	0.186676	-19.687466	-0.000075478482351	0.000738468203546	0.000009815163979
402	minimi	0.069359	0.172338	-21.215228	-0.000078661790061	0.000635811132195	0.000008355641278
403	massimi	-0.121662	0.004185	-12.529553	-0.000122349840316	0.000502538633342	-0.000006034296181
403	minimi	-0.140422	0.003907	-13.397752	-0.000131325496996	0.000466989985298	-0.000006658264985
404	massimi	-0.121651	0.000053	-12.775772	-0.000141858695313	0.000358203405958	-0.00000644083065
404	minimi	-0.140409	-0.00007	-13.662701	-0.000152324815208	0.000332899556474	-0.000007119168685
405	massimi	-0.121662	-0.003801	-12.944197	-0.000125862061079	0.000211215980727	-0.000006034499297
405	minimi	-0.140422	-0.004325	-13.843914	-0.000135104683286	0.00019634428373	-0.000006657998511
406	massimi	-0.118296	-0.007711	-13.091279	-0.000063028059755	0.000127836131847	-0.000008355641278
406	minimi	-0.136706	-0.008645	-14.001947	-0.000067471165871	0.000118881110318	-0.000006812075676
407	massimi	-0.114887	-0.007802	-13.10413	0.000009657994996	0.000127588271175	-0.000006423230064
407	minimi	-0.132942	-0.00875	-14.015576	0.00000862736647	0.000118649113134	-0.000007098545971
408	massimi	-0.111384	-0.00791	-13.081819	0.000086747055012	0.000127924847406	-0.000006307348341
408	minimi	-0.129068	-0.008875	-13.991357	0.000080246971106	0.00011896035882	-0.000006973801832
409	massimi	-0.107818	-0.003949	-12.925208	0.000154379953539	0.000211303641918	-0.00000644694786
409	minimi	-0.125122	-0.004496	-13.822656	0.000143080419584	0.000196422590379	-0.000007135264415
410	massimi	-0.107822	0.000053	-12.756769	0.000171552422892	0.000358203405958	-0.000006396790703
410	minimi	-0.125126	-0.00007	-13.641428	0.000159034477441	0.000332899556474	-0.000007068207748
411	massimi	-0.107818	0.004357	-12.510563	0.000150600767249	0.00050245097215	-0.000006446744744
411	minimi	-0.125122	0.004055	-13.376494	0.000139568198821	0.00046691167865	-0.000007135530889
412	massimi	-0.111384	0.008736	-12.251217	0.000083781768804	0.00058321218664	-0.000006307067435
412	minimi	-0.129068	0.008016	-13.097621	0.000077491155704	0.000541941238676	-0.000006974170361
413	massimi	-0.114887	0.008611	-12.273475	0.00009657994996	0.00058268321709	-0.000006423208311
413	minimi	-0.132942	0.007908	-13.121782	0.00000862736647	0.000541448081607	-0.00000709857451
414	massimi	-0.118296	0.008506	-12.260678	-0.000060272244353	0.000583300902199	-0.000006167305259
414	minimi	-0.136706	0.007817	-13.108211	-0.000064505879664	0.000542020487178	-0.000006812444204
415	massimi	-0.003288	0.033449	-17.675563	-0.000248955240525	0.000567744345301	-0.000002304285829
415	minimi	-0.007909	0.031077	-19.180658	-0.000268652784461	0.000500455296583	-0.000002583258706
416	massimi	-0.003335	0.031818	-17.922277	-0.000276137614871	0.000355143441324	-0.000002439166895
416	minimi	-0.007953	0.029619	-19.463358	-0.000298450781059	0.000305668778809	-0.000002720382038
417	massimi	-0.003388	0.03012	-18.05629	-0.000252180163661	0.000139913005842	-0.000002417490136
417	minimi	-0.008002	0.0281	-19.623008	-0.000272399684308	0.000108619046823	-0.000002704864525
418	massimi	-0.001895	0.028392	-18.198013	-0.000161264532184	0.000017899975194	-0.000002444245108
418	minimi	-0.006668	0.02655	-19.789437	-0.000173114298412	-0.000003063961131	-0.000002727234506
419	massimi	-0.000405	0.0284	-18.255423	-0.000058232745139	0.000017399706531	-0.000002445881193
419	minimi	-0.005333	0.026553	-19.850448	-0.00006053004587	-0.000003511292432	-0.000002728684626
420	massimi	0.001086	0.028392	-18.26187	0.000052305533619	0.0000173433963515	-0.000002450732969
420	minimi	-0.003994	0.026541	-19.855813	0.000045040830225	-0.000003598870463	-0.00000272726799
421	massimi	0.002579	0.03012	-18.184462	0.000151594796701	0.000139363602582	-0.000002436636387
421	minimi	-0.002651	0.028093	-19.756237	0.000135960191737	0.000108090495101	-0.000002706317325
422	massimi	0.002526	0.031818	-18.050542	0.000177944612788	0.000355143441324	-0.000002437122568
422	minimi	-0.0027	0.029619	-19.596683	0.000160205024968	0.000305668778809	-0.000002720226916
423	massimi	0.00248	0.033449	-17.803735	0.000147847896854	0.00056829374856	-0.000002323432081

423	minimi	-0.002743	0.031084	-19.313886	0.000132735268601	0.000500983848305	-0.000002584711505
424	massimi	0.001034	0.035057	-17.499211	0.000049365578028	0.000687718151893	-0.000002294173807
424	minimi	-0.004043	0.032524	-18.969712	0.000042510436782	0.000610439517718	-0.000002559548522
425	massimi	-0.000405	0.035057	-17.492714	-0.000058232745139	0.000686804264324	-0.000002433757778
425	minimi	-0.005333	0.03252	-18.964289	-0.00006053004587	0.000609613342357	-0.000002715661465
426	massimi	-0.001843	0.035057	-17.435354	-0.000158734138741	0.000687162140213	-0.000002287685946
426	minimi	-0.006619	0.032515	-18.903336	-0.000170174342821	0.000609904608386	-0.00000255905623
427	massimi	0.114119	0.030401	-21.542706	-0.000611109972255	0.000260872513761	-0.000000353715484
427	minimi	0.101213	0.028634	-23.240085	-0.000662626312896	0.000193117683209	-0.000003581343246
428	massimi	0.114106	0.029263	-21.586869	-0.000623660848133	0.000147440215975	-0.000000195136709
428	minimi	0.101199	0.028545	-23.304728	-0.000676289676183	0.000088299755017	-0.000003437814702
429	massimi	0.114087	0.028438	-21.600041	-0.000611371408239	0.000033770446192	-0.000000411020195
429	minimi	0.101181	0.028107	-23.335821	-0.000663062850663	-0.000016660391626	-0.000003640088923
430	massimi	0.115275	0.028333	-21.770481	-0.000541034690966	-0.000042526012727	-0.000000352505643
430	minimi	0.101315	0.026953	-23.537564	-0.000586911075045	-0.000087119342608	-0.0000003570099678
431	massimi	0.11643	0.028389	-21.927502	-0.000435779774681	-0.000057188082547	-0.000000199903647
431	minimi	0.101421	0.027019	-23.707922	-0.00047289239787	-0.000100621329031	-0.000003443516436
432	massimi	0.117512	0.028444	-22.053444	-0.00032982297735	-0.000043926142196	-0.00000014890229
432	minimi	0.101464	0.027081	-23.844626	-0.000358112064852	-0.000088409589834	-0.000003336366222
433	massimi	0.118556	0.028504	-22.16645	-0.000259184826187	0.000032476831689	-0.000000044547811
433	minimi	0.101472	0.028183	-23.950468	-0.000281633184115	-0.000017852483187	-0.0000003219384374
434	massimi	0.118542	0.029263	-22.153352	-0.000246169133262	0.000147440215975	-0.000000208404974
434	minimi	0.101459	0.028545	-23.919455	-0.000267618255161	0.000088299755017	-0.000003453046462
435	massimi	0.118524	0.030325	-22.109115	-0.00025944626217	0.000262166128265	0.0000000127569
435	minimi	0.101441	0.028568	-23.854731	-0.000282069721882	0.000194309774771	-0.000003160638696
436	massimi	0.117493	0.031391	-21.938676	-0.000330064524569	0.000338467116054	-0.000000045757652
436	minimi	0.101445	0.028593	-23.652989	-0.000358515392972	0.00026480580346	-0.000003230627941
437	massimi	0.11643	0.031454	-21.812718	-0.000435779774681	0.000351483338475	-0.000000203638036
437	minimi	0.101421	0.028649	-23.51626	-0.000472892397869	0.000276870385839	-0.000003447344729
438	massimi	0.115294	0.031518	-21.655712	-0.000540793143746	0.000337066986584	-0.000000249361005
438	minimi	0.101334	0.028704	-23.345927	-0.000586507746924	0.000263515556234	-0.000003464361397
439	massimi	-0.167733	-0.002551	-12.425238	-0.000154734402693	0.00034542097201	-0.000016947604398
439	minimi	-0.191207	-0.003185	-13.271178	-0.000167520100425	0.000323381689148	-0.000018196579985
440	massimi	-0.167687	-0.013288	-12.582374	-0.000173171389083	0.000202811588014	-0.000017708710929
440	minimi	-0.191156	-0.014718	-13.438711	-0.000187327783011	0.00019074284432	-0.000019035521497
441	massimi	-0.167691	-0.023997	-12.662819	-0.00015674681444	0.000058700553144	-0.000016896819899
441	minimi	-0.191161	-0.026221	-13.523791	-0.000169659842148	0.000056691707613	-0.000018140327492
442	massimi	-0.158282	-0.034779	-12.740344	-0.000094918313916	-0.000019221178464	-0.000017054651018
442	minimi	-0.181058	-0.037807	-13.606361	-0.000103187746413	-0.000022908594363	-0.00001832262883
443	massimi	-0.148836	-0.034886	-12.771312	-0.000024869082372	-0.000019437031991	-0.000017689607537
443	minimi	-0.17091	-0.037931	-13.640286	-0.000027886308202	-0.000023143206534	-0.000019012802855
444	massimi	-0.139267	-0.035037	-12.767615	0.000047530916432	-0.000019449618689	-0.000017235712689
444	minimi	-0.160621	-0.038102	-13.636941	0.000045283407808	-0.000023164749955	-0.000018530543673
445	massimi	-0.1296	-0.024189	-12.717556	0.000114004799131	0.000058447441914	-0.000017431146345
445	minimi	-0.150221	-0.026441	-13.58517	0.000107113501952	0.000056465982358	-0.000018753899641
446	massimi	-0.129595	-0.013288	-12.637151	0.000131810359975	0.000202811588014	-0.000017651657249
446	minimi	-0.150215	-0.014718	-13.500134	0.000123660806452	0.00019074284432	-0.000018970006212
447	massimi	-0.129558	-0.002359	-12.479976	0.000111865057409	0.000345674083241	-0.000017481930844
447	minimi	-0.150175	-0.002965	-13.332557	0.000105101090204	0.000323607414404	-0.000018810152134
448	massimi	-0.139246	0.008752	-12.291701	0.000045851997709	0.000425804224542	-0.000017305946797
448	minimi	-0.160597	0.008539	-13.130915	0.000043704396787	0.000398129157518	-0.000018608339924
449	massimi	-0.148836	0.008577	-12.295368	-0.000024869082372	0.000425292616785	-0.000017695046538
449	minimi	-0.17091	0.008385	-13.134228	-0.000027886308202	0.000397655668826	-0.000019018827475
450	massimi	-0.158304	0.008456	-12.26443	-0.000093339302896	0.00042554806895	-0.000017124885125
450	minimi	-0.181082	0.008282	-13.100336	-0.000101508827691	0.000397900717293	-0.000018400425081
451	massimi	-0.030287	-0.002969	-17.261756	-0.000327744475847	0.000422289029036	-0.000003893701166
451	minimi	-0.03075	-0.00379	-18.7142	-0.000356063208627	0.000368793387822	-0.000004795878249
452	massimi	-0.030269	-0.005432	-17.427926	-0.000353435754802	0.000214883292279	-0.000004048033777
452	minimi	-0.030736	-0.00682	-18.907953	-0.000384199915716	0.000178614729366	-0.000004970262556
453	massimi	-0.030265	-0.007883	-17.484231	-0.000329628929913	0.000005886529697	-0.000003872941115
453	minimi	-0.030733	-0.009835	-18.981849	-0.000358330309976	-0.000012886417425	-0.000004769813283
454	massimi	-0.02761	-0.010346	-17.594311	-0.000241031025089	-0.000112623792472	-0.000003898238835
454	minimi	-0.028577	-0.012861	-19.113686	-0.000261652476944	-0.000121450618497	-0.000004791886274
455	massimi	-0.024953	-0.010364	-17.696558	-0.000141139218845	-0.000113382539113	-0.000004044636465
455	minimi	-0.026415	-0.012877	-19.224474	-0.000152590705101	-0.000122129764912	-0.000004967495104
456	massimi	-0.022275	-0.010392	-17.749082	-0.000040661388116	-0.000114025447022	-0.000003930373264
456	minimi	-0.024232	-0.012904	-19.281014	-0.000042895361031	-0.000122747082971	-0.000004822241889
457	massimi	-0.019577	-0.007917	-17.794883	0.000053792246032	0.000004501534368	-0.00000396777266
457	minimi	-0.02203	-0.009867	-19.317706	0.000047945557226	-0.000014167472904	-0.000004859395389

458	massimi	-0.019571	-0.005432	-17.738803	0.000080414895874	0.000214883292279	-0.000004037908205
458	minimi	-0.022025	-0.00682	-19.244054	0.000072448912459	0.000178614729366	-0.000004960697489
459	massimi	-0.019556	-0.002935	-17.572408	0.000051525144682	0.000423674024364	-0.000003988532712
459	minimi	-0.022013	-0.003758	-19.050057	0.00004606110316	0.000370074443301	-0.000004885460356
460	massimi	-0.022264	-0.00044	-17.303429	-0.000042140000168	0.000540630730947	-0.000003959083976
460	minimi	-0.024223	-0.000695	-18.744869	-0.00004467421223	0.000477348813641	-0.000004858289186
461	massimi	-0.024953	-0.000469	-17.250876	-0.000141139218845	0.000539468593608	-0.000004046859726
461	minimi	-0.026415	-0.000724	-18.688294	-0.000152590705101	0.00047629990305	-0.000004970286486
462	massimi	-0.027622	-0.000486	-17.148658	-0.000239552413038	0.000539229076396	-0.000003926949547
462	minimi	-0.028585	-0.000738	-18.577541	-0.000259873625745	0.000476052349167	-0.000004827933572
463	massimi	0.219042	-0.104691	-20.212558	-0.000795546364811	-0.000641028670205	0.00000608662865
463	minimi	0.200034	-0.113711	-21.756123	-0.00085907806458	-0.000649509404578	0.000003856103157
464	massimi	0.219106	-0.102653	-19.987065	-0.00080581702396	-0.000738879670684	0.000006643331121
464	minimi	0.200092	-0.112395	-21.526495	-0.000870235538008	-0.000755168195909	0.000004431939399
465	massimi	0.219165	-0.100551	-19.732784	-0.000793358706042	-0.000835540607587	0.000006429705647
465	minimi	0.200146	-0.111009	-21.265772	-0.000856842179101	-0.000859610688837	0.00000408173711
466	massimi	0.21785	-0.098396	-19.697863	-0.000728103841191	-0.000900770428506	0.000006532506653
466	minimi	0.198108	-0.109565	-21.241961	-0.000786352658751	-0.000930083132453	0.000004345786143
467	massimi	0.21646	-0.098292	-19.917274	-0.000631503298355	-0.000912980313047	0.000006623795527
467	minimi	0.196002	-0.10945	-21.478907	-0.000681951346795	-0.000943307091809	0.000004410428418
468	massimi	0.214934	-0.098181	-20.107915	-0.000533885635814	-0.000902640169661	0.000006925982416
468	minimi	0.193774	-0.109327	-21.68477	-0.000576451661869	-0.000932102239086	0.000004780330099
469	massimi	0.213352	-0.100424	-20.553586	-0.000468193952857	-0.000837268108028	0.00000700093564
469	minimi	0.191494	-0.110868	-22.152145	-0.000505490427917	-0.000861476191765	0.000004863887097
470	massimi	0.21342	-0.102653	-20.807974	-0.000454683196962	-0.000738879670684	0.000006617689398
470	minimi	0.191557	-0.112395	-22.412984	-0.000490960556347	-0.000755168195909	0.000004403621376
471	massimi	0.213475	-0.104819	-21.033361	-0.000466006294087	-0.000639301169764	0.000006794858643
471	minimi	0.191607	-0.113852	-22.642496	-0.000503254542438	-0.00064764390165	0.000004638253143
472	massimi	0.215007	-0.106935	-21.068281	-0.000531864403367	-0.000573418016552	0.000006555057638
472	minimi	0.193841	-0.115254	-22.666308	-0.000574385871564	-0.00057649549579	0.00000437420411
473	massimi	0.21646	-0.106828	-20.877765	-0.000631503298355	-0.000561846486049	0.000006637224993
473	minimi	0.196002	-0.115137	-22.460572	-0.000681951346795	-0.000564032110149	0.000004425132356
474	massimi	0.217777	-0.10672	-20.658229	-0.000730125073637	-0.000575287757706	0.000006161581874
474	minimi	0.198041	-0.115017	-22.223498	-0.000788418449056	-0.000578514602423	0.000003939660154
475	massimi	-0.240558	-0.049901	-11.039956	-0.00026872035683	0.000262216455657	0.000007310004623
475	minimi	-0.265475	-0.055244	-11.692432	-0.000294421344193	0.000234673778769	0.000006322561973
476	massimi	-0.240485	-0.046034	-11.146999	-0.000284536677943	0.000137124098396	0.000007061306329
476	minimi	-0.265395	-0.050767	-11.814023	-0.00031128570972	0.000117439057542	0.000006089345824
477	massimi	-0.240414	-0.042072	-11.186233	-0.000270021063757	0.000011016451407	0.000007504034712
477	minimi	-0.265316	-0.046185	-11.863227	-0.000295868057161	-0.00000665202082	0.000006498503088
478	massimi	-0.243977	-0.038167	-11.295315	-0.000215247047266	-0.000060702536715	0.00000721305818
478	minimi	-0.269433	-0.041667	-11.99118	-0.000237373476855	-0.000067797741159	0.000006235415845
479	massimi	-0.247421	-0.038396	-11.394905	-0.000153606138306	-0.000061534022866	0.000007128987154
479	minimi	-0.273418	-0.04192	-12.101637	-0.000171527342769	-0.000068530868074	0.000006150404349
480	massimi	-0.25066	-0.038596	-11.463757	-0.000091327443045	-0.000062278137461	0.000006880441733
480	minimi	-0.277176	-0.042141	-12.179273	-0.000104969011952	-0.000069208722885	0.000005934424686
481	massimi	-0.253794	-0.042391	-11.524325	-0.000036543583414	0.000009459576381	0.000006522458867
481	minimi	-0.280818	-0.046538	-12.240764	-0.000046463440109	-0.000002059414554	0.000005610255816
482	massimi	-0.253707	-0.046034	-11.485336	-0.000021269917156	0.000137124098396	0.00000716611588
482	minimi	-0.280721	-0.050767	-12.191834	-0.000030199293659	0.000117439057542	0.000006184190046
483	massimi	-0.25365	-0.049582	-11.378048	-0.000037782611488	0.000263773330684	0.000006328428778
483	minimi	-0.280659	-0.054891	-12.069969	-0.000047910153077	0.000236067991242	0.000005434314702
484	massimi	-0.250585	-0.053203	-11.17074	-0.000092299629271	0.000334509006871	0.000006612101388
484	minimi	-0.277093	-0.059097	-11.837141	-0.000106104155256	0.000302359110829	0.000005691101088
485	massimi	-0.247421	-0.053415	-11.101869	-0.000153606138306	0.000333433552086	0.000007108206607
485	minimi	-0.273418	-0.05933	-11.759483	-0.000171527342769	0.00030139748183	0.000006131561124
486	massimi	-0.244053	-0.053632	-11.002299	-0.000214274861039	0.000332933406125	0.000006944717835
486	minimi	-0.269517	-0.05957	-11.649048	-0.000236238333551	0.000300948129103	0.000005992092247
487	massimi	-0.009755	-0.042422	-14.700087	-0.000420686854209	0.000161297027465	-0.000003187598896
487	minimi	-0.010409	-0.046639	-15.880216	-0.000457324467827	0.000148983246703	-0.000003997715318
488	massimi	-0.009673	-0.044424	-14.739166	-0.00044116855081	-0.000011541073519	-0.000003205343743
488	minimi	-0.010335	-0.049149	-15.92228	-0.00047958844817	-0.000013225754946	-0.000004026148232
489	massimi	-0.009601	-0.046334	-14.685712	-0.000420565091446	-0.000171979942024	-0.00000301781157
489	minimi	-0.01027	-0.051558	-15.863742	-0.000457184931027	-0.000187650612026	-0.000003809869131
490	massimi	-0.007469	-0.048213	-14.756421	-0.000345947999796	-0.000263043247233	-0.000002991834441
490	minimi	-0.008578	-0.053932	-15.940168	-0.00037606291562	-0.000286651041529	-0.000003778174612
491	massimi	-0.005344	-0.04822	-14.921366	-0.000262575768861	-0.000264079174599	-0.000003197131943
491	minimi	-0.006893	-0.053937	-16.11947	-0.000285424366258	-0.00028777626368	-0.000004017830256
492	massimi	-0.003216	-0.048225	-15.044356	-0.000178113296456	-0.000265455193105	-0.00000300021968

492	minimi	-0.005202	-0.053941	-16.253158	-0.000193600705711	-0.000289272868077	-0.000003784675993
493	massimi	-0.001074	-0.046343	-15.263649	-0.000103479385801	-0.00017436322096	-0.000003042557153
493	minimi	-0.003498	-0.051565	-16.49197	-0.000112460407758	-0.000190241277124	-0.000003829055283
494	massimi	-0.001001	-0.044424	-15.317523	-0.000081580099579	-0.000011541073519	-0.000003202701551
494	minimi	-0.003432	-0.049149	-16.550964	-0.000088648304585	-0.000013225754946	-0.000004024099644
495	massimi	-0.00092	-0.042413	-15.278024	-0.000103357623039	0.000163887692563	-0.00000321234448
495	minimi	-0.003359	-0.046632	-16.508444	-0.000112320870958	0.000151366525639	-0.000004016901469
496	massimi	-0.003135	-0.040363	-15.073151	-0.000178017756909	0.000263015931653	-0.000003235031962
496	minimi	-0.005129	-0.04407	-16.286157	-0.00019349122	0.000242542834992	-0.000004044463296
497	massimi	-0.005344	-0.040379	-14.950164	-0.000262575768861	0.000261551285074	-0.000003215315017
497	minimi	-0.006893	-0.044086	-16.152471	-0.000285424366258	0.000241194703554	-0.000004037947311
498	massimi	-0.00755	-0.040375	-14.785216	-0.000346043539343	0.000260394105105	-0.000003226646722
498	minimi	-0.008652	-0.044079	-15.973167	-0.000376172401331	0.00024013088912	-0.000004037961915
499	massimi	0.065932	-0.267393	-12.978847	-0.001207092927187	-0.000095263008091	-0.000024217786307
499	minimi	0.061865	-0.289956	-13.931123	-0.001302068723837	-0.000125607787292	-0.000026294687991
500	massimi	0.066106	-0.275265	-12.926999	-0.001213692781537	-0.000163193193282	-0.000024111629686
500	minimi	0.062026	-0.298503	-13.888261	-0.001309250763302	-0.000188587415758	-0.000026182149822
501	massimi	0.066259	-0.282964	-12.856392	-0.001206534561691	-0.000230860534221	-0.000023665191129
501	minimi	0.062167	-0.306864	-13.825157	-0.001301585544999	-0.000251263299212	-0.000025695440818
502	massimi	0.074681	-0.290582	-13.153048	-0.001163953625021	-0.000277053676604	-0.000023381849069
502	minimi	0.069923	-0.315135	-14.158242	-0.001255631280703	-0.000294056987583	-0.000024339089275
503	massimi	0.083036	-0.290537	-13.519882	-0.001100764685529	-0.000287088542338	-0.00002413471239
503	minimi	0.077618	-0.315087	-14.553952	-0.001187387879294	-0.000303325683644	-0.000026207107013
504	massimi	0.09134	-0.290497	-13.867803	-0.001035802818714	-0.000280569268669	-0.000023226029728
504	minimi	0.085265	-0.315044	-14.929245	-0.001117232032435	-0.00029731610759	-0.000025222393398
505	massimi	0.099659	-0.282914	-14.287122	-0.000992460470431	-0.000234108677327	-0.000023384726761
505	minimi	0.092926	-0.30681	-15.368476	-0.001070456438265	-0.000254274481394	-0.000025395399415
506	massimi	0.099816	-0.275265	-14.357915	-0.00098346776047	-0.000163193193282	-0.000024121784
506	minimi	0.09307	-0.298503	-15.431782	-0.001060812367119	-0.000188587415758	-0.00002619301293
507	massimi	0.099987	-0.267443	-14.409577	-0.000991902104935	-0.000092014864985	-0.00002393732194
507	minimi	0.093227	-0.29001	-15.474442	-0.001069973259427	-0.000122596605111	-0.000025994646588
508	massimi	0.091535	-0.259521	-14.112922	-0.001035286930919	-0.000045441391032	-0.000024220663999
508	minimi	0.085444	-0.281408	-15.141357	-0.001116785611468	-0.000079424530827	-0.000026300998131
509	massimi	0.083036	-0.259492	-13.765032	-0.001100764685529	-0.000038650146155	-0.000024098701297
509	minimi	0.077618	-0.281377	-14.766091	-0.001187387879294	-0.000073100662577	-0.000026168055739
510	massimi	0.074486	-0.259436	-13.398166	-0.001164469512816	-0.000048956983096	-0.000024376483341
510	minimi	0.069744	-0.281317	-14.370354	-0.00125607770167	-0.000082683650833	-0.000026467694009
511	massimi	-0.327022	0.038108	-18.502245	-0.000281238343803	0.001269536459858	0.000015957065044
511	minimi	-0.359489	0.037474	-19.977056	-0.000328136529431	0.001152390044474	0.000014794581013
512	massimi	-0.327056	0.043213	-18.860589	-0.000293712761702	0.001172175759024	0.000015423437321
512	minimi	-0.359525	0.042208	-20.372112	-0.000341674318038	0.001062565761042	0.000014309550159
513	massimi	-0.327068	0.048291	-19.192198	-0.000284384365269	0.001072927113873	0.00001587031469
513	minimi	-0.359537	0.046917	-20.738181	-0.000331607081782	0.000971030074713	0.000014709847288
514	massimi	-0.331883	0.053323	-19.580494	-0.000223604270593	0.001006708887698	0.000015538688888
514	minimi	-0.364732	0.051583	-21.17328	-0.000265700895054	0.000909971506078	0.000014405699702
515	massimi	-0.336586	0.053116	-19.636622	-0.00013139703736	0.000993546250413	0.000015450453501
515	minimi	-0.369804	0.051394	-21.241684	-0.000165699758985	0.000897880675005	0.000014334327803
516	massimi	-0.341079	0.052918	-19.665814	-0.000038978171794	0.001006218287475	0.000014796305247
516	minimi	-0.374645	0.051214	-21.280873	-0.000065431741507	0.000909582468603	0.000013730000732
517	massimi	-0.34548	0.04805	-19.362982	0.000021892811726	0.001072473836103	0.000014534073912
517	minimi	-0.379385	0.046697	-20.95355	0.000000589061653	0.000970670633297	0.000013493634444
518	massimi	-0.345505	0.043213	-19.031396	0.000031440189172	0.001172175759024	0.000015471816401
518	minimi	-0.379411	0.042208	-20.58751	0.000010932446457	0.001062565761042	0.000014353583585
519	massimi	-0.345526	0.038349	-18.67303	0.00001874679026	0.001269989737628	0.000014620824266
519	minimi	-0.379432	0.037693	-20.192426	-0.000002881490699	0.00115274948589	0.000013578368169
520	massimi	-0.341107	0.033428	-18.284733	-0.000041884859416	0.001335434478781	0.000014952450068
520	minimi	-0.374674	0.033125	-19.757326	-0.0000686382713	0.001213102661607	0.000013882515755
521	massimi	-0.336586	0.033231	-18.255362	-0.00013139703736	0.001346153014908	0.000015444800221
521	minimi	-0.369804	0.032946	-19.717938	-0.000165699758985	0.00122303362588	0.000014328805941
522	massimi	-0.331856	0.033022	-18.199414	-0.000220697582971	0.001334943878559	0.000015694833709
522	minimi	-0.364704	0.032756	-19.649733	-0.000262494365262	0.001212713624132	0.000014558214725
523	massimi	0.07327	-0.023955	-17.752546	-0.000404846816791	-0.000621965588314	-0.000003274850887
523	minimi	0.067539	-0.027154	-19.226758	-0.00044245087927	-0.000665333559917	-0.000003481389998
524	massimi	0.073288	-0.025005	-17.535506	-0.000413840901985	-0.000706834812937	-0.000003160753103
524	minimi	0.067555	-0.028269	-18.994325	-0.000452242967218	-0.000757587687066	-0.000003355590152
525	massimi	0.073301	-0.026038	-17.293579	-0.000402754035736	-0.000790565586472	-0.00000322465417
525	minimi	0.067566	-0.029366	-18.734836	-0.000440207830215	-0.000848621618901	-0.000003424639275
526	massimi	0.074424	-0.027058	-17.149198	-0.000346361175691	-0.000846854900723	-0.000003148648271
526	minimi	0.068623	-0.030448	-18.582161	-0.000378899595502	-0.000909820359566	-0.000003341303332

527	massimi	0.07552	-0.027019	-17.246951	-0.000262880105421	-0.000856914602757	-0.000003166944989
527	minimi	0.069656	-0.030407	-18.689193	-0.000288129711299	-0.000920769326232	-0.000003362379186
528	massimi	0.076568	-0.026981	-17.319893	-0.000178975631923	-0.00084763323039	-0.000003008814314
528	minimi	0.070644	-0.030366	-18.769251	-0.000196895756033	-0.000910673447713	-0.000003189696736
529	massimi	0.077598	-0.025993	-17.63526	-0.000122400934681	-0.000791284704644	-0.000002972962423
529	minimi	0.071616	-0.029317	-19.109336	-0.000135388218679	-0.000849409808297	-0.000003151757567
530	massimi	0.077614	-0.025005	-17.877231	-0.000110875963029	-0.000706834812937	-0.000003169865694
530	minimi	0.07163	-0.028269	-19.368873	-0.000128272896298	-0.000757587687066	-0.000003365469933
531	massimi	0.077629	-0.024001	-18.094227	-0.000120308153626	-0.000621246470142	-0.000003023159139
531	minimi	0.071643	-0.027204	-19.601257	-0.000133145169624	-0.000664545370521	-0.00000320850829
532	massimi	0.076587	-0.022981	-18.238608	-0.00017704205936	-0.000564409018613	-0.000003099165038
532	minimi	0.070661	-0.02612	-19.753933	-0.000194823347121	-0.000602757698975	-0.000003291844233
533	massimi	0.07552	-0.022945	-18.165786	-0.000262880105421	-0.000553949663801	-0.000003163673808
533	minimi	0.069656	-0.026081	-19.674004	-0.000288129711299	-0.000591399255313	-0.000003358680899
534	massimi	0.074406	-0.022905	-18.067913	-0.000348294748253	-0.00056518734828	-0.000003238998995
534	minimi	0.068607	-0.026038	-19.566843	-0.000380972004413	-0.000603610787123	-0.000003443450829
535	massimi	-0.02612	0.008517	-18.604352	-0.000336191314883	-0.000437777409151	-0.000029068256557
535	minimi	-0.026582	0.00362	-20.171431	-0.000341089905986	-0.000480942106389	-0.000031885129135
536	massimi	-0.026108	-0.001881	-18.446365	-0.000346907885412	-0.000526924234921	-0.000029461114196
536	minimi	-0.026571	-0.00586	-19.998044	-0.000350933523637	-0.000577857282027	-0.000032316757665
537	massimi	-0.026114	-0.012278	-18.262206	-0.00033448040768	-0.000615222379418	-0.000029056492777
537	minimi	-0.02658	-0.015336	-19.796213	-0.000339529800235	-0.000673841741975	-0.000031881352787
538	massimi	-0.016173	-0.022687	-18.153313	-0.000270005735329	-0.000674471984707	-0.00002905753042
538	minimi	-0.016628	-0.024822	-19.664953	-0.000280202100403	-0.000738222278567	-0.000031884480186
539	massimi	-0.005776	-0.022679	-18.228736	-0.000174248286116	-0.000685101017822	-0.000029461029663
539	minimi	-0.007152	-0.024816	-19.735712	-0.000192092282846	-0.000749715938701	-0.000032316502889
540	massimi	0.004624	-0.022693	-18.278044	-0.000078210186958	-0.000675040727337	-0.000029071888526
540	minimi	0.002328	-0.02483	-19.778097	-0.000103673075225	-0.000738738189082	-0.000031896075688
541	massimi	0.015039	-0.012282	-18.51188	-0.00001361498506	-0.000615747854906	-0.000029082336404
541	minimi	0.011823	-0.015341	-20.022694	-0.000044212502948	-0.000674318404555	-0.000031902223912
542	massimi	0.015029	-0.001881	-18.696072	-0.000000897112149	-0.000526924234921	-0.000029460178518
542	minimi	0.011816	-0.00586	-20.224554	-0.00003248864628	-0.000577857282027	-0.000032316002019
543	massimi	0.015041	0.00852	-18.854026	-0.000011904077857	-0.000437251933664	-0.000029094100184
543	minimi	0.011829	0.003624	-20.397912	-0.000042652397197	-0.000480465443809	-0.00003190600026
544	massimi	0.004625	0.018934	-18.962919	-0.000076629437163	-0.000377594581669	-0.000029093060254
544	minimi	0.002332	0.013121	-20.529173	-0.000102231654649	-0.000415645948744	-0.000031902872861
545	massimi	-0.005776	0.01892	-18.9137	-0.000174248286116	-0.000366656140464	-0.00002946026305
545	minimi	-0.007152	0.013107	-20.486886	-0.000192092282846	-0.000403705165439	-0.000032316256795
546	massimi	-0.016174	0.018928	-18.838188	-0.000271586485124	-0.000378163324299	-0.000029078704435
546	minimi	-0.016632	0.013113	-20.416028	-0.000281643520979	-0.000416161859259	-0.00003189127736
547	massimi	0.097912	-0.097544	-13.922194	-0.000673628797014	-0.000879052097906	-0.000016277858839
547	minimi	0.089558	-0.108604	-15.028291	-0.000734494743633	-0.00095736906808	-0.000029093060442
548	massimi	0.097983	-0.102824	-13.62503	-0.000679768187185	-0.000945118946306	-0.000016199143391
548	minimi	0.089622	-0.114407	-14.70471	-0.000741141748355	-0.001029000640157	-0.000017806646133
549	massimi	0.098038	-0.108039	-13.308503	-0.000670830509508	-0.00100966355546	-0.000016071439067
549	minimi	0.089671	-0.12014	-14.360134	-0.000731448101042	-0.00109897487041	-0.000017663887139
550	massimi	0.103819	-0.113219	-13.184119	-0.0006269848117	-0.001053420049349	-0.000015908469589
550	minimi	0.094931	-0.125833	-14.225224	-0.000683909778674	-0.001146416439475	-0.000017484065449
551	massimi	0.109548	-0.113161	-13.376442	-0.000562655320023	-0.001061472832815	-0.000016212420358
551	minimi	0.100143	-0.125769	-14.435084	-0.000614168871428	-0.00115515030341	-0.000017821295461
552	massimi	0.115209	-0.11311	-13.549467	-0.000497419597427	-0.001055085946915	-0.000015707431521
552	minimi	0.105293	-0.125712	-14.62402	-0.000543438763866	-0.001148234857237	-0.000017264146848
553	massimi	0.120855	-0.107974	-14.03982	-0.000453184704453	-0.0010111202719731	-0.000015709584022
553	minimi	0.11043	-0.120068	-15.158406	-0.000495475613815	-0.00110065495189	-0.000017268048401
554	massimi	0.120914	-0.102824	-14.356442	-0.000443309328069	-0.000945118946306	-0.000016212245003
554	minimi	0.110483	-0.114407	-15.503086	-0.000484758417384	-0.001029000640157	-0.000017820977618
555	massimi	0.120981	-0.09761	-14.653511	-0.000450386416947	-0.000877512933636	-0.000015916003794
555	minimi	0.110542	-0.108675	-15.826564	-0.000492428971224	-0.0009556889866	-0.000017497721703
556	massimi	0.115284	-0.092348	-14.777894	-0.000494834189876	-0.000832975956789	-0.000016078973272
556	minimi	0.10536	-0.10289	-15.961474	-0.000540623894864	-0.000907397309657	-0.000017677543393
557	massimi	0.109548	-0.0923	-14.60503	-0.000562655320023	-0.000825013973698	-0.000016198968555
557	minimi	0.100143	-0.102838	-15.772712	-0.000614168871428	-0.000898766972438	-0.00001780632829
558	massimi	0.103744	-0.092238	-14.412547	-0.000629570219252	-0.000834641854355	-0.00001628001134
558	minimi	0.094864	-0.10277	-15.562678	-0.000686724647677	-0.000909215727419	-0.000017897461995
559	massimi	0.212608	-0.070611	-16.992826	-0.000637989622451	-0.000479691005792	-0.00002284927034
559	minimi	0.191055	-0.078571	-18.453077	-0.000696811510624	-0.000528496262632	-0.000025331822145
560	massimi	0.212669	-0.078006	-16.822596	-0.0006466623186	-0.000561326057302	-0.000022682363168
560	minimi	0.191109	-0.086769	-18.265696	-0.000706255348178	-0.000617481968408	-0.000025144979869
561	massimi	0.212704	-0.085352	-16.628342	-0.000636327660537	-0.000642057018848	-0.000022692672735

561	minimi	0.191141	-0.094913	-18.052129	-0.000694983283517	-0.000705473137688	-0.000025157632038
562	massimi	0.220931	-0.092662	-16.608777	-0.000581865616845	-0.000696505031687	-0.000022464711156
562	minimi	0.198562	-0.103016	-18.029425	-0.000635620193128	-0.000764819945081	-0.000024904032817
563	massimi	0.229071	-0.092543	-16.783495	-0.000501168491049	-0.000706700505059	-0.000022700934253
563	minimi	0.205904	-0.102884	-18.22032	-0.000547668290699	-0.000775930484005	-0.000025165639547
564	massimi	0.237067	-0.092436	-16.934199	-0.000419664167018	-0.000697988880395	-0.000022051357049
564	minimi	0.213118	-0.102765	-18.38504	-0.000458834295949	-0.000766441469378	-0.000024444171731
565	massimi	0.245013	-0.085218	-17.27974	-0.000364855459308	-0.000643427983642	-0.000021948663056
565	minimi	0.220286	-0.094764	-18.763967	-0.000399092377094	-0.000706971304389	-0.000024329912915
566	massimi	0.245057	-0.078006	-17.474079	-0.000353685574011	-0.000561326057302	-0.000022709300307
566	minimi	0.220325	-0.086769	-18.977626	-0.000386907590505	-0.000617481968408	-0.000025174947739
567	massimi	0.245108	-0.070745	-17.644224	-0.000363193497394	-0.000478320040998	-0.000022105260661
567	minimi	0.220371	-0.078721	-19.164914	-0.000397264149987	-0.00052699809593	-0.000024504103022
568	massimi	0.237124	-0.063431	-17.663789	-0.000418128638995	-0.000423370868545	-0.00002233322224
568	minimi	0.213169	-0.070612	-19.187619	-0.00045714515137	-0.000467100811551	-0.000024757702243
569	massimi	0.229071	-0.063327	-17.51318	-0.000501168491049	-0.00041372376047	-0.000022690729222
569	minimi	0.205904	-0.070497	-19.023003	-0.000547668290699	-0.000456582726332	-0.000025154288061
570	massimi	0.220875	-0.063205	-17.338367	-0.000583401144868	-0.000424854717253	-0.000022746576347
570	minimi	0.198511	-0.070361	-18.832003	-0.000637309337706	-0.000468722335848	-0.000025217563329
571	massimi	0.318267	-0.534955	-4.749762	-0.002488342164758	-0.000757819407581	0.000038574582713
571	minimi	0.288566	-0.576709	-5.074625	-0.002669251539546	-0.000822065373992	0.000034468425065
572	massimi	0.318569	-0.523639	-4.499689	-0.002488365165815	-0.000781658974589	0.00004021496937
572	minimi	0.288847	-0.564045	-4.803368	-0.002669282689848	-0.000847811398349	0.000035962081661
573	massimi	0.318885	-0.511995	-4.24221	-0.002486027845961	-0.000804239576287	0.000039706907074
573	minimi	0.28914	-0.55103	-4.524118	-0.0026667413581	-0.000872191910156	0.00003551963316
574	massimi	0.305991	-0.500151	-4.783385	-0.00246921945047	-0.000821436085128	0.000040395029575
574	minimi	0.277607	-0.537798	-5.101511	-0.002648601420753	-0.000890745935539	0.00003615362409
575	massimi	0.292964	-0.500028	-5.581259	-0.002445702903741	-0.000827623451732	0.000040158910881
575	minimi	0.265953	-0.537662	-5.957322	-0.00262322232531	-0.0008973949804	0.000035910433047
576	massimi	0.279754	-0.49986	-6.371445	-0.002418247228547	-0.000828677268796	0.000040983155653
576	minimi	0.254133	-0.537476	-6.80484	-0.002593618182863	-0.000898512714829	0.000036687526164
577	massimi	0.266498	-0.511822	-7.421037	-0.002399747112185	-0.000810929886306	0.000040765494583
577	minimi	0.242272	-0.550839	-7.933678	-0.002573663732416	-0.000879367831066	0.000036480621097
578	massimi	0.266826	-0.523639	-7.67893	-0.002393333882321	-0.000781658974589	0.000040176642826
578	minimi	0.242576	-0.564045	-8.213372	-0.002566750643936	-0.000847811398349	0.000035927288745
579	massimi	0.267116	-0.535129	-7.928589	-0.002397432793389	-0.000751129097562	0.000039633170222
579	minimi	0.242846	-0.576899	-8.484184	-0.00257115355097	-0.000814889453082	0.000035429413002
580	massimi	0.280121	-0.546445	-7.387414	-0.002416108971745	-0.000732841032555	0.000038945047721
580	minimi	0.254474	-0.589567	-7.906791	-0.002591298963679	-0.000795158128409	0.000034795422072
581	massimi	0.292964	-0.546298	-6.59736	-0.002445702903741	-0.000732592168238	0.000040232701315
581	minimi	0.265953	-0.589404	-7.059417	-0.00262322232531	-0.000794862934488	0.000035978937359
582	massimi	0.305623	-0.546154	-5.799354	-0.002471357707272	-0.000740082216224	0.000038356921642
582	minimi	0.277266	-0.589246	-6.203463	-0.002650920639937	-0.000802924907698	0.000034261519998
583	massimi	0.328389	-0.1356	-12.173523	-0.000771875081912	-0.000967024207897	0.000000159299498
583	minimi	0.297956	-0.147047	-13.150468	-0.000830896587025	-0.001053786642596	0.000000049607175
584	massimi	0.328476	-0.135467	-11.849328	-0.000776771270912	-0.001024485338455	0.000000863759782
584	minimi	0.298036	-0.146942	-12.797228	-0.000836209312239	-0.0011161582383	0.000000822106759
585	massimi	0.32855	-0.13525	-11.508297	-0.000768841808128	-0.001080296399681	0.000000431250563
585	minimi	0.298104	-0.146745	-12.425716	-0.000827591890124	-0.001176732113323	0.00000034459379
586	massimi	0.328462	-0.134961	-11.394678	-0.000730733591136	-0.001118323132209	0.000000779105946
586	minimi	0.297986	-0.14647	-12.298791	-0.000786233674109	-0.001217999302617	0.000000726149311
587	massimi	0.328259	-0.134801	-11.622253	-0.000675119031729	-0.001125444277021	0.000000835421445
587	minimi	0.297763	-0.146293	-12.543561	-0.000725879312294	-0.001225713748504	0.000000791023012
588	massimi	0.327851	-0.134634	-11.83305	-0.000618417103701	-0.001120322009873	0.000001385131446
588	minimi	0.297354	-0.14611	-12.770124	-0.000664355825703	-0.00122014847021	0.000001376866227
589	massimi	0.327358	-0.135056	-12.38579	-0.000579841899099	-0.001082143212561	0.000001530717451
589	minimi	0.296868	-0.146531	-13.369185	-0.000622495510607	-0.001178717782813	0.000001507178991
590	massimi	0.327446	-0.135467	-12.726935	-0.000570787310113	-0.001024485338455	0.000000824805405
590	minimi	0.296949	-0.146942	-13.74082	-0.000612668367249	-0.0011161582383	0.000000779162723
591	massimi	0.327519	-0.135794	-13.051016	-0.000576808625315	-0.000965177395017	0.000001235730835
591	minimi	0.297017	-0.147261	-14.093937	-0.000619190813706	-0.001051800973107	0.000001235227926
592	massimi	0.327947	-0.136048	-13.164635	-0.000615614586472	-0.000926289949396	0.000000887372543
592	minimi	0.297442	-0.147501	-14.220862	-0.000661302533893	-0.001009598226199	0.000000854175315
593	massimi	0.328259	-0.135888	-12.954011	-0.00067511903173	-0.000919460316222	0.000000853143741
593	minimi	0.297763	-0.147324	-13.994488	-0.000725879312294	-0.001002172803514	0.00000081024647
594	massimi	0.328366	-0.135722	-12.726263	-0.000733536108365	-0.00092828882706	0.000000289612262
594	minimi	0.297897	-0.147141	-13.749529	-0.000789286965919	-0.001011747393792	0.00000019519318
595	massimi	0.360304	-0.105645	-5.092456	-0.000782305810224	-0.002235842184978	0.000032189317438
595	minimi	0.334765	-0.114892	-5.457933	-0.000850613971996	-0.002405967439779	0.000029774107547

596	massimi	0.360357	-0.095853	-4.362629	-0.000780808442303	-0.002256983374147	0.000033365169762
596	minimi	0.334813	-0.104305	-4.672539	-0.000849021276878	-0.002428919908512	0.000030863931077
597	massimi	0.360418	-0.086	-3.626937	-0.000775623383211	-0.002274489392652	0.000032398711108
597	minimi	0.33487	-0.093654	-3.880771	-0.000843422479053	-0.002447960280018	0.000029966532632
598	massimi	0.349862	-0.076075	-3.135503	-0.000762543279355	-0.002287217055929	0.000032754820476
598	minimi	0.325106	-0.082923	-3.354622	-0.000829207057344	-0.002461798363992	0.00003029661986
599	massimi	0.339204	-0.075914	-3.38047	-0.000745887180105	-0.002288905938694	0.000033336159007
599	minimi	0.315248	-0.08275	-3.620998	-0.000811076645208	-0.002463654008112	0.000030837040239
600	massimi	0.328335	-0.075729	-3.619827	-0.000728029730758	-0.002289425462379	0.000033435774843
600	minimi	0.305193	-0.082551	-3.881275	-0.000791639886706	-0.002464199781984	0.000030929482007
601	massimi	0.31736	-0.085795	-4.596411	-0.000714433688148	-0.002276529794397	0.000033624383314
601	minimi	0.295041	-0.093433	-4.934976	-0.000776863433938	-0.002450179009937	0.000031105642067
602	massimi	0.317435	-0.095853	-5.332229	-0.000708005563507	-0.002256983374147	0.000033320793857
602	minimi	0.29511	-0.104305	-5.726881	-0.000769912928426	-0.002428919908512	0.000030822689208
603	massimi	0.317475	-0.105851	-6.06193	-0.000707751261135	-0.002233801783232	0.000033414989644
603	minimi	0.295146	-0.115113	-6.512138	-0.000769671940995	-0.00240374870986	0.000030913216982
604	massimi	0.328403	-0.115799	-6.553364	-0.000721855669936	-0.002219344933853	0.000033058880276
604	minimi	0.305256	-0.125866	-7.038288	-0.000784995487186	-0.002388047825934	0.000030583129755
605	massimi	0.339204	-0.115618	-6.314388	-0.000745887180105	-0.002216103059898	0.000033349804611
605	minimi	0.315248	-0.125671	-6.778422	-0.000811076645208	-0.00238454565966	0.000030849580047
606	massimi	0.349794	-0.115453	-6.06904	-0.000768717340178	-0.002221553340302	0.000032377925909
606	minimi	0.325043	-0.125494	-6.511634	-0.000835851456864	-0.002390449243926	0.000029950267607
607	massimi	0.036269	0.032622	-12.624937	0.000009334627369	0.00018812215868	0.000005644647084
607	minimi	0.03169	0.030251	-13.906014	0.000008535189756	0.000167369462326	0.000005314777514
608	massimi	0.036249	0.03447	-12.668778	0.00000112185505	0.000122545280282	0.000005746176839
608	minimi	0.031671	0.031991	-13.955456	0.000001115121278	0.000108194939479	0.000005406183362
609	massimi	0.036231	0.036297	-12.695191	0.000008971797983	0.000056771026479	0.000005575448221
609	minimi	0.031655	0.033711	-13.985586	0.000008214848546	0.00004884615435	0.000005250554942
610	massimi	0.034409	0.038119	-12.695544	0.000052797905144	0.000012943993168	0.000005573931974
610	minimi	0.029938	0.035426	-13.986877	0.00004776053987	0.000009300209965	0.000005247525562
611	massimi	0.032582	0.038136	-12.669483	0.000118574392381	0.000005078129143	0.000005746300361
611	minimi	0.028218	0.035441	-13.958037	0.000107109935261	0.000002204706129	0.000005406430153
612	massimi	0.030734	0.038155	-12.625995	0.000184159899855	0.000013295065636	0.000005639339901
612	minimi	0.026481	0.035457	-13.909884	0.000166286815915	0.000009617338719	0.000005304174049
613	massimi	0.028871	0.036318	-12.555974	0.00022790387742	0.000057095391079	0.000005693178105
613	minimi	0.024729	0.033729	-13.831468	0.000205758418063	0.000049139157508	0.00000535251842
614	massimi	0.028855	0.03447	-12.529542	0.000235563053138	0.000122545280282	0.000005741914386
614	minimi	0.024714	0.031991	-13.801318	0.000212672906452	0.000108194939479	0.000005402491737
615	massimi	0.028834	0.0326	-12.48572	0.000227541158356	0.00018779779408	0.000005762376967
615	minimi	0.024694	0.030233	-13.751896	0.000205438076853	0.000167076459169	0.000005416740991
616	massimi	0.030712	0.030721	-12.485367	0.000183824672745	0.000231513353541	0.000005763893214
616	minimi	0.02646	0.028466	-13.750604	0.000165990844689	0.000206523438272	0.000005419770371
617	massimi	0.032582	0.030742	-12.528837	0.000118574392381	0.000239526061003	0.000005741790863
617	minimi	0.028218	0.028484	-13.798737	0.000107109935261	0.000213755757531	0.000005402244946
618	massimi	0.034431	0.030757	-12.554917	0.000053133132254	0.000231864426009	0.000005698485287
618	minimi	0.029959	0.028497	-13.827598	0.000048056511096	0.000206840567026	0.000005363121885
619	massimi	-0.016098	0.026386	-18.831532	-0.000079322435632	0.000490025176241	0.000003765523458
619	minimi	-0.019343	0.023797	-21.163634	-0.000088546985429	0.000430407783442	0.000003570616842
620	massimi	-0.016113	0.027608	-18.955246	-0.000090873557792	0.000387834724859	0.000003746034045
620	minimi	-0.01936	0.024956	-21.304633	-0.000101597590068	0.000339910195926	0.000003557632206
621	massimi	-0.016126	0.028812	-19.052245	-0.000080328834306	0.000285019614283	0.000003710100999
621	minimi	-0.019373	0.026099	-21.415465	-0.000089695278	0.000248865138018	0.000003520518042
622	massimi	-0.017278	0.030007	-19.139533	-0.000019684349999	0.00021646606716	0.000003670436852
622	minimi	-0.020588	0.027234	-21.515001	-0.000021213114929	0.000188158053771	0.000003485689578
623	massimi	-0.018421	0.029995	-19.129695	0.000081774140071	0.000203855632223	0.000003749265319
623	minimi	-0.021791	0.027224	-21.503561	0.000071511669229	0.000176992344951	0.000003560469537
624	massimi	-0.019552	0.029983	-19.093098	0.000184629686987	0.000216708182245	0.000003626690633
624	minimi	-0.022981	0.027214	-21.461903	0.000162592509441	0.000188369783957	0.00000344870992
625	massimi	-0.020682	0.028798	-18.959297	0.000253055285944	0.000285243310444	0.000003631360737
625	minimi	-0.024169	0.026087	-21.309179	0.000223187528303	0.000249060760813	0.000003453957136
626	massimi	-0.020695	0.027608	-18.862285	0.000264821316522	0.000387834724859	0.000003748884865
626	minimi	-0.024184	0.024956	-21.198332	0.000233613073319	0.000339910195926	0.000003560042068
627	massimi	-0.020709	0.0264	-18.738584	0.000251906993372	0.00048980148008	0.000003686783196
627	minimi	-0.024199	0.023809	-21.057347	0.000222181129629	0.000430212160648	0.000003504055936
628	massimi	-0.019568	0.025181	-18.651296	0.000183568750868	0.000558068338532	0.000003726447343
628	minimi	-0.022999	0.022651	-20.957811	0.00016166267263	0.000490668017706	0.0000035388844
629	massimi	-0.018421	0.025171	-18.687836	0.000081774140071	0.000570274538813	0.000003745653591
629	minimi	-0.021791	0.022642	-20.999404	0.000071511669228	0.000501478976062	0.000003557204737
630	massimi	-0.017262	0.025157	-18.697731	-0.000018754513188	0.000558310453618	0.000003770193563

630	minimi	-0.02057	0.022631	-21.010909	-0.00002015217881	0.000490879747892	0.000003575864058
631	massimi	-0.028697	0.009679	-19.153119	-0.000142469599381	0.00068019364497	0.000004699851807
631	minimi	-0.034238	0.008735	-21.531384	-0.00015773946262	0.000597029817833	0.000004436066383
632	massimi	-0.028705	0.011202	-19.330626	-0.000154465804405	0.000575884654214	0.00000468003685
632	minimi	-0.034247	0.010173	-21.733778	-0.000171299746904	0.000504674409234	0.000004424631593
633	massimi	-0.028708	0.012717	-19.480818	-0.000143963828334	0.000470648124946	0.000004677364246
633	minimi	-0.03425	0.011604	-21.905321	-0.000159444529309	0.000411506155655	0.000004415644343
634	massimi	-0.030152	0.014227	-19.641204	-0.000081936793802	0.000400460335843	0.000004638425053
634	minimi	-0.03578	0.013031	-22.087352	-0.000089387286661	0.000349364097632	0.000004382117483
635	massimi	-0.031583	0.014205	-19.651166	0.000016164058641	0.000387310110093	0.000004683209065
635	minimi	-0.037294	0.013013	-22.097576	0.000011508841795	0.000337721099708	0.000004427362887
636	massimi	-0.032994	0.014186	-19.633731	0.000121689369587	0.000400508194035	0.000004563556472
636	minimi	-0.038786	0.012997	-22.076856	0.000104935940878	0.000349398172759	0.000004318715347
637	massimi	-0.034398	0.012693	-19.465859	0.000191735431369	0.000470692342322	0.000004542605821
637	minimi	-0.040269	0.011584	-21.884312	0.000166955014612	0.000411537638514	0.00000430152475
638	massimi	-0.034403	0.011202	-19.315665	0.000203563710594	0.000575884654214	0.000004684915828
638	minimi	-0.040274	0.010173	-21.712766	0.00017743781051	0.000504674409234	0.000004428763334
639	massimi	-0.034409	0.009704	-19.138161	0.00019003036468	0.000680149427595	0.000004565093382
639	minimi	-0.040281	0.008755	-21.510375	0.000165460785659	0.000596998334973	0.000004321946789
640	massimi	-0.033	0.008196	-18.977775	0.000120114015987	0.000749935229832	0.000004604032575
640	minimi	-0.038793	0.00733	-21.328344	0.000103555385517	0.000658788711626	0.000004355473649
641	massimi	-0.031583	0.008178	-18.995125	0.000016164058641	0.000762173567591	0.000004681743613
641	minimi	-0.037294	0.007314	-21.348967	0.000011508841795	0.000669624714622	0.00000442603204
642	massimi	-0.030145	0.008156	-18.985248	-0.00008055623844	0.000749983088024	0.000004678901155
642	minimi	-0.035772	0.007295	-21.33884	-0.000087811933062	0.000658822786753	0.000004418875785
643	massimi	-0.053571	-0.001943	-19.188812	-0.000153737410281	0.000694200674192	0.000008438113433
643	minimi	-0.061272	-0.002282	-21.572491	-0.00017160379019	0.000608763863277	0.00000782281513
644	massimi	-0.053575	0.000592	-19.370093	-0.000165769807247	0.000589649297992	0.000008422906495
644	minimi	-0.061276	0.000452	-21.779393	-0.000185206192475	0.00051619979042	0.000007814669773
645	massimi	-0.053571	0.003186	-19.523994	-0.000155265763331	0.000484148213497	0.000008437205668
645	minimi	-0.061272	0.003127	-21.955366	-0.000173349610935	0.000422804309429	0.000007821625703
646	massimi	-0.056126	0.005915	-19.691676	-0.000093085619017	0.000413775539508	0.000008383237905
646	minimi	-0.064028	0.005659	-22.146246	-0.000103113830036	0.000360503909146	0.000007774049559
647	massimi	-0.05866	0.005876	-19.705215	0.000002717375561	0.000400560991811	0.000008427303025
647	minimi	-0.066761	0.005624	-22.168078	0.000000599862245	0.000348806937692	0.000007818545604
648	massimi	-0.061158	0.005842	-19.691286	0.000108544204465	0.000413783585055	0.000008249214954
648	minimi	-0.069452	0.005595	-22.144482	0.00009428437735	0.000360505685205	0.000007656288656
649	massimi	-0.06364	0.003142	-19.523214	0.000178778105725	0.000484155646978	0.000008195973342
649	minimi	-0.072126	0.003089	-21.951834	0.000156464106733	0.000422805950374	0.000007609663974
650	massimi	-0.063639	0.000592	-19.369314	0.000190630158595	0.000589649297992	0.000008431640398
650	minimi	-0.072124	0.000452	-21.77586	0.000166967150942	0.00051619979042	0.000007822343924
651	massimi	-0.063641	-0.001905	-19.188032	0.000177032284979	0.000694193240712	0.000008196881107
651	minimi	-0.072126	-0.002238	-21.568959	0.000154935753683	0.000608762222332	0.000007610853401
652	massimi	-0.061158	-0.004411	-19.02035	0.000106931197178	0.000764157435423	0.00000825084887
652	minimi	-0.069452	-0.004939	-21.378079	0.000092872293886	0.00067070542616	0.000007658429545
653	massimi	-0.05866	-0.00444	-19.034192	0.000002717375561	0.000776397342882	0.000008427243868
653	minimi	-0.066761	-0.004972	-21.394375	0.000000599862245	0.000681543895881	0.000007818468092
654	massimi	-0.056126	-0.004475	-19.02074	-0.000091673535552	0.000764165480969	0.00000838487182
654	minimi	-0.064028	-0.005012	-21.379844	-0.000101500822749	0.000670707202219	0.000007776190448
655	massimi	-0.095473	-0.017824	-19.110696	-0.000177026305327	0.000568097381107	0.000011639659593
655	minimi	-0.108247	-0.019697	-21.480018	-0.000196600420244	0.000494190527193	0.000010706428788
656	massimi	-0.09547	-0.01436	-19.254847	-0.000188809350943	0.000464063150858	0.000011590540662
656	minimi	-0.108244	-0.015932	-21.646058	-0.000209924748382	0.000402065807787	0.000010668710956
657	massimi	-0.095457	-0.010886	-19.371768	-0.000178216732978	0.000359281485439	0.00001167164247
657	minimi	-0.108229	-0.012157	-21.781346	-0.000197974408272	0.000309293508143	0.000010735255701
658	massimi	-0.098962	-0.007416	-19.510129	-0.000116390777089	0.000289344655826	0.000011591443349
658	minimi	-0.112041	-0.008385	-21.939778	-0.000128151201133	0.000247368323575	0.000010664537361
659	massimi	-0.102434	-0.007475	-19.531371	-0.000023095532281	0.000276267191803	0.000011597074152
659	minimi	-0.115814	-0.008452	-21.962694	-0.000023379185007	0.000235791366745	0.000010674472087
660	massimi	-0.105842	-0.007528	-19.52531	0.000081997334985	0.000289276275079	0.000011358945863
660	minimi	-0.119515	-0.008512	-21.954775	0.000069670062348	0.000247299102995	0.00001045889978
661	massimi	-0.109222	-0.010953	-19.402155	0.000151836517569	0.000359218306763	0.000011253162585
661	minimi	-0.123184	-0.012232	-21.811365	0.000131512189889	0.000309229553525	0.000010365121843
662	massimi	-0.109212	-0.01436	-19.285238	0.000163825347764	0.000464063150858	0.000011605691877
662	minimi	-0.123174	-0.015932	-21.676081	0.000142143770662	0.000402065807787	0.000010682111787
663	massimi	-0.109206	-0.017757	-19.141083	0.000150462529541	0.000568160559782	0.000011221179708
663	minimi	-0.123167	-0.019621	-21.510036	0.000130321762238	0.000494254481812	0.000010336294931
664	massimi	-0.105833	-0.021165	-19.002721	0.00008072787321	0.000637781593639	0.000011301378829
664	minimi	-0.119505	-0.023322	-21.351604	0.00006857019658	0.00055906818791	0.000010407013271

665	massimi	-0.102434	-0.021218	-19.008714	-0.000023095532281	0.000650017287949	0.000011599158387
665	minimi	-0.115814	-0.023382	-21.359445	-0.000023379185007	0.00056674448835	0.000010676350656
666	massimi	-0.098972	-0.021277	-18.98754	-0.000115290911321	0.000637713212892	0.000011533876315
666	minimi	-0.112051	-0.023449	-21.336608	-0.000126881739359	0.000555837598211	0.000010612650851
667	massimi	-0.033839	0.074179	-9.979388	0.000080861158084	0.00013549125995	-0.00000239074603
667	minimi	-0.038272	0.067989	-10.536775	0.000068033116977	0.000130545436431	-0.000002826916404
668	massimi	-0.032362	0.072006	-9.926242	0.000225404193296	-0.000046463307891	-0.000002954654003
668	minimi	-0.036531	0.066135	-10.473486	0.000204044805071	-0.000052600504807	-0.000003448858909
669	massimi	-0.032362	0.076037	-9.761311	0.000225404193295	0.0003218268768	-0.000002183943381
669	minimi	-0.036531	0.069555	-10.302306	0.000204044805071	0.000305862137331	-0.000002607983637
670	massimi	-0.033773	0.076032	-9.852002	0.00014455864741	0.000270244356825	-0.000002535174067
670	minimi	-0.0382	0.069552	-10.403409	0.000127944549755	0.000257327677067	-0.000003006332647
671	massimi	-0.030825	0.074179	-9.752455	0.000369993720392	0.00013549125995	-0.000002749701638
671	minimi	-0.03472	0.067989	-10.286086	0.00034009857946	0.000130545436431	-0.000003232107064
672	massimi	-0.030779	0.072021	-9.790409	0.000309361195092	0.000005997215828	-0.000003448858909
672	minimi	-0.034671	0.066149	-10.324409	0.00028301902838	0.000003147535416	-0.000003507484019
673	massimi	-0.030899	0.076084	-9.626344	0.000308376689149	0.000268744064956	-0.000002633113701
673	minimi	-0.034802	0.069598	-10.154129	0.000282070459756	0.000255969553435	-0.000003116887334
674	massimi	-0.033893	0.072073	-10.016067	0.000143574141468	0.000004639092195	-0.000002893178428
674	minimi	-0.038331	0.066195	-10.57369	0.000126995981132	0.000001647243548	-0.000003396929333
675	massimi	0.079099	0.149622	-10.597048	0.000092632684489	0.000125253277605	0.000007630131017
675	minimi	0.069168	0.136831	-11.222052	0.000075099863799	0.000098690721445	0.000006814635051
676	massimi	0.074454	0.154656	-10.513008	0.000247699513059	-0.000076403910311	0.000007192108046
676	minimi	0.065022	0.141315	-11.138184	0.000220627877597	-0.000090437886393	0.000006397117658
677	massimi	0.074454	0.143954	-10.388322	0.000247699513059	0.000325286970165	0.000008888189496
677	minimi	0.065022	0.131767	-10.979938	0.000220627877597	0.000286540129799	0.000007948196072
678	massimi	0.07921	0.144096	-10.486498	0.000160922473046	0.000269770259543	0.000008928023439
678	minimi	0.069269	0.131894	-11.091589	0.000139065206343	0.000234214077508	0.000007975675518
679	massimi	0.069668	0.149622	-10.351672	0.000402817473997	0.000125253277605	0.000008455960027
679	minimi	0.060754	0.136831	-10.946567	0.000366201435393	0.000098690721445	0.00000753584709
680	massimi	0.069841	0.154744	-10.366532	0.000337724033379	-0.000016774624981	0.000008365493656
680	minimi	0.060911	0.141393	-10.975066	0.000304989564384	-0.00003470196557	0.000007451957433
681	massimi	0.069577	0.14399	-10.2425	0.00033681391731	0.000268121562512	0.00000915334634
681	minimi	0.06067	0.131801	-10.817652	0.000304272457309	0.000232745570274	0.000008172454253
682	massimi	0.078946	0.154638	-10.61053	0.000160012356977	-0.000018423322011	0.000008140170756
682	minimi	0.069028	0.1413	-11.249003	0.000138348099268	-0.000036170472803	0.000007255178698
683	massimi	-0.084886	0.041165	-12.589291	-0.000075132256488	0.000229207755727	0.000002256250675
683	minimi	-0.09981	0.037471	-13.446731	-0.000076322400663	0.000219222996461	0.000002213264473
684	massimi	-0.085986	0.042207	-12.641785	0.000114716182676	-0.00001237488296	0.000001523388929
684	minimi	-0.100901	0.038547	-13.496628	0.000102599810468	-0.000019688421344	0.000001462735243
685	massimi	-0.085986	0.03995	-12.364819	0.000114716182676	0.000475133093789	0.000001948153189
685	minimi	-0.100901	0.036237	-13.207047	0.000102599810468	0.000447979452703	0.000001929377508
686	massimi	-0.084872	0.0399	-12.392788	0.000007193411734	0.000406848303219	0.000002095496522
686	minimi	-0.099794	0.036196	-13.239541	0.000002568885829	0.00038449618673	0.000002085080395
687	massimi	-0.086922	0.041165	-12.475183	0.000305778427383	0.000229207755727	0.000001259527663
687	minimi	-0.1018	0.037471	-13.319147	0.000280353039669	0.000219222996461	0.000001137083493
688	massimi	-0.086894	0.042146	-12.554832	0.000224986902134	0.00005610359095	0.000001637965053
688	minimi	-0.10177	0.038495	-13.400734	0.000205191800391	0.00005386863253	0.000001562959058
689	massimi	-0.08696	0.040044	-12.27932	0.000223321433839	0.000406084751514	0.000001835273164
689	minimi	-0.101843	0.036319	-13.112674	0.000203598883307	0.000383813281682	0.000001779720007
690	massimi	-0.084938	0.04229	-12.6683	0.00000552794344	0.000055420685902	0.00000189818841
690	minimi	-0.099867	0.038618	-13.527601	0.000000975968744	0.000053105080826	0.000001868319446
691	massimi	0.051616	0.126243	-15.89367	-0.00006249594289	0.000280078641382	0.000007246429658
691	minimi	0.042961	0.114501	-17.114831	-0.000068148033487	0.000234438891019	0.000006529097479
692	massimi	0.047258	0.130971	-15.9151	0.000185302572052	-0.000042661611903	0.000006790281853
692	minimi	0.039043	0.118746	-17.14837	0.000160763507045	-0.000063543569979	0.00000609422207
693	massimi	0.047258	0.120981	-15.618907	0.000185302572052	0.000599188599456	0.000008221346158
693	minimi	0.039043	0.10977	-16.794516	0.000160763507045	0.00052938262554	0.000007392173303
694	massimi	0.051704	0.121091	-15.670598	0.000045941367328	0.00051056580195	0.000008332974413
694	minimi	0.043041	0.109868	-16.856794	0.000031887499097	0.000447241382131	0.000007494334625
695	massimi	0.042811	0.126243	-15.714874	0.000433139338823	0.000280078641382	0.000007770606828
695	minimi	0.035051	0.114501	-16.908743	0.000389708233832	0.000234438891019	0.000006962156849
696	massimi	0.042958	0.131032	-15.787441	0.00032844745443	0.000052704039001	0.000007811244619
696	minimi	0.035184	0.118798	-17.003857	0.000292860007124	0.00002427940693	0.000007009576656
697	massimi	0.042736	0.121024	-15.492805	0.000326412345434	0.000509332421244	0.000008475993269
697	minimi	0.034982	0.109812	-16.651863	0.000291156525938	0.00044617133434	0.00000761249249
698	massimi	0.051481	0.130965	-15.965233	0.000043906258331	0.000051470658295	0.000007668225764
698	minimi	0.042839	0.118743	-17.208788	0.000030184017911	0.00002320935914	0.000006891418791
699	massimi	0.12212	0.209776	-16.066798	-0.000301670817535	0.000193399567594	0.000027184535739

699	minimi	0.104991	0.193277	-17.21659	-0.00031843178648	0.000160243584496	0.000024853403671
700	massimi	0.112934	0.200365	-16.061251	-0.000143236112775	0.000363730734434	0.000028677237723
700	minimi	0.096598	0.184682	-17.201814	-0.000148100340029	0.000318678184276	0.000026194227403
701	massimi	0.122187	0.200458	-15.996034	-0.000243939593593	0.000301746803236	0.000028794578519
701	minimi	0.105051	0.184765	-17.133631	-0.000256339852447	0.000260987509704	0.000026307353464
702	massimi	0.112934	0.218895	-16.165791	-0.000143236112775	0.00002306601322	0.000026736590158
702	minimi	0.096598	0.201603	-17.327985	-0.000148100340029	0.000001807006495	0.000024406210493
703	massimi	0.10359	0.209776	-16.160243	0.000022232934733	0.000193399567594	0.000028229292142
703	minimi	0.08807	0.193277	-17.313209	0.000015200360246	0.000160243584496	0.000025747034225
704	massimi	0.103705	0.218939	-16.193669	-0.000040041319164	0.000085448269953	0.000028467110912
704	minimi	0.088175	0.201641	-17.356026	-0.000042748314527	0.000059796230639	0.000025980435896
705	massimi	0.103554	0.200377	-16.089314	-0.000040338007503	0.00030197399942	0.000029176459594
705	minimi	0.088036	0.184696	-17.230078	-0.000042994139291	0.000261207243827	0.000026633994771
706	massimi	0.122036	0.218858	-16.100389	-0.000244185418356	0.000085675466138	0.000028085229837
706	minimi	0.104912	0.201572	-17.259579	-0.000256636540786	0.000060015964762	0.000025653794589
707	massimi	-0.093824	0.010662	-12.875814	-0.000161231373775	0.000364869492016	0.000002547794428
707	minimi	-0.109938	0.009791	-13.771175	-0.000172119341692	0.000339879419384	0.00000220240317
708	massimi	-0.094897	0.011924	-13.048672	0.000024786182742	0.000107508443476	0.000001870100927
708	minimi	-0.111176	0.010885	-13.955825	0.000021694982411	0.000100783793439	0.000001620022764
709	massimi	-0.094897	0.009354	-12.619268	0.000024786182742	0.000617501344037	0.000001990959255
709	minimi	-0.111176	0.008655	-13.494848	0.000021694982411	0.000574569753569	0.000001731006063
710	massimi	-0.093834	0.009286	-12.60204	-0.000081235236011	0.000548077098925	0.00000227482486
710	minimi	-0.109951	0.008597	-13.477093	-0.000086006821722	0.000510078838665	0.000001971299388
711	massimi	-0.095789	0.010662	-12.851685	0.000221696819576	0.000364869492016	0.000001314656028
711	minimi	-0.112203	0.009791	-13.743608	0.000204625813404	0.000339879419384	0.000001149832281
712	massimi	-0.095787	0.011843	-13.005196	0.000138464286537	0.000184274958986	0.000001879885349
712	minimi	-0.112201	0.010816	-13.908236	0.000127299548357	0.000172104827696	0.00000163255646
713	massimi	-0.095804	0.009444	-12.578047	0.000135813073585	0.000547912121922	0.000001936025497
713	minimi	-0.11222	0.008732	-13.449681	0.000124829918151	0.000509934436713	0.000001684109538
714	massimi	-0.093852	0.012001	-13.029189	-0.000083704866217	0.000184109981982	0.000002216342337
714	minimi	-0.10997	0.010951	-13.935648	-0.000088658034674	0.000171960425744	0.000001919746309
715	massimi	0.032591	0.070244	-17.79	-0.00024441107463	0.000355700406064	0.000003061957356
715	minimi	0.025096	0.063791	-19.303488	-0.000259371400905	0.000306546039828	0.000002853127718
716	massimi	0.030725	0.072245	-17.932755	0.000024083980876	-0.00001368421547	0.00000283305524
716	minimi	0.023369	0.065641	-19.468647	0.000015444434304	-0.000031956909449	0.0000023602549
717	massimi	0.030725	0.067945	-17.545461	0.000024083980876	0.000720474545789	0.000003629321068
717	minimi	0.023369	0.061672	-19.019251	0.000015444434304	0.000641075631426	0.000003343216642
718	massimi	0.032644	0.068006	-17.511904	-0.000131484374015	0.000618828721034	0.000003613420263
718	minimi	0.025143	0.061725	-18.986718	-0.000136077630933	0.000547678607153	0.00000333920271
719	massimi	0.0288	0.070244	-17.772824	0.000307544334291	0.000355700406064	0.000003402747254
719	minimi	0.021598	0.063791	-19.276702	0.000275303131418	0.000306546039828	0.000003112329968
720	massimi	0.028879	0.072285	-17.880081	0.000187057448381	0.000095118953918	0.0000023602549
720	minimi	0.021669	0.065674	-19.407116	0.000164746407327	0.000067573030753	0.000003074023734
721	massimi	0.028755	0.067962	-17.494823	0.000184472856094	0.000618668417176	0.000003706402911
721	minimi	0.021556	0.061691	-18.960083	0.000162518980771	0.000547575808433	0.000003409924617
722	massimi	0.03252	0.072242	-17.897161	-0.00013371180057	0.000094958650059	0.000003243544058
722	minimi	0.025031	0.06564	-19.433751	-0.00013866222322	0.000067470232033	0.000003003301827
723	massimi	0.082105	0.193124	-20.073717	-0.000182462906522	0.000564647112215	0.000008974420074
723	minimi	0.069313	0.17783	-21.666012	-0.000187904382293	0.000475244179044	0.000007618294481
724	massimi	0.079037	0.189866	-19.913204	0.000027809485208	0.000780357322753	0.000010233306867
724	minimi	0.066709	0.175055	-21.472758	0.000016835283726	0.000674539331912	0.000008749411391
725	massimi	0.082177	0.189929	-19.895477	-0.000108675885125	0.000702541366058	0.000009844354921
725	minimi	0.069379	0.17511	-21.45672	-0.000109313564685	0.000602563210459	0.000008379065938
726	massimi	0.079037	0.196113	-20.223246	0.000027809485208	0.000348929931062	0.000008446708097
726	minimi	0.066709	0.180356	-21.841124	0.000016835283727	0.000275943159248	0.000007104304113
727	massimi	0.075859	0.193124	-20.062734	0.000243523009398	0.000564647112215	0.00000970559489
727	minimi	0.064012	0.17783	-21.64787	0.000216133266142	0.000475244179044	0.000008235421023
728	massimi	0.075947	0.196159	-20.194005	0.000165250665614	0.000428614815319	0.000009458574625
728	minimi	0.064092	0.180397	-21.806324	0.000143767432995	0.00034948221278	0.000008003316732
729	massimi	0.075808	0.189872	-19.884513	0.000164384457814	0.00070249870438	0.00001011161514
729	minimi	0.063964	0.175062	-21.43861	0.00014303837549	0.000602537383967	0.000008604639044
730	massimi	0.082038	0.196102	-20.204969	-0.000109542092925	0.000428572153641	0.000009191314406
730	minimi	0.069251	0.180349	-21.824434	-0.00011004262219	0.000349456386288	0.000007777474362
731	massimi	-0.118367	0.000053	-12.865589	-0.000174283874126	0.000356772237176	-0.0000053070657
731	minimi	-0.136788	-0.00007	-13.759176	-0.000187226362424	0.000331569486896	-0.000005831884316
732	massimi	-0.114991	-0.003902	-13.040489	0.000009624910628	0.000099535944777	-0.00000594295392
732	minimi	-0.133062	-0.00444	-13.947151	0.000008597812618	0.000092587311082	-0.000006567070833
733	massimi	-0.114991	0.004301	-12.621583	0.000009624910628	0.000609384284306	-0.000005942350903
733	minimi	-0.133062	0.004008	-13.496404	0.000008597812618	0.000566254078787	-0.000006567861948

734	massimi	-0.11836	0.004184	-12.597093	-0.000094398159085	0.000539850661875	-0.000006216869923
734	minimi	-0.13678	0.003906	-13.470248	-0.000101237230097	0.000501654928141	-0.000006861803672
735	massimi	-0.111396	0.000053	-12.856027	0.000206478168915	0.000356772237176	-0.000006582518731
735	minimi	-0.129084	-0.000007	-13.748471	0.000191481272747	0.000331569486896	-0.000007307778034
736	massimi	-0.111435	-0.003964	-13.004289	0.000123170250266	0.000176151644181	-0.000006565152402
736	minimi	-0.129127	-0.004514	-13.907982	0.000114084163268	0.000163765942785	-0.000007264128017
737	massimi	-0.111435	0.004374	-12.587585	0.000120577873548	0.000539786598404	-0.000006564872293
737	minimi	-0.129127	0.00407	-13.459603	0.000111674914653	0.000501597701041	-0.0000072644955
738	massimi	-0.11836	-0.0038	-13.013798	-0.000096807407699	0.000176087580709	-0.000006217150032
738	minimi	-0.13678	-0.004324	-13.918626	-0.000103829606815	0.000163708715685	-0.00000686143619
739	massimi	-0.001882	0.031848	-18.091232	-0.000323247784338	0.000353724508837	-0.00000222848861
739	minimi	-0.006657	0.029648	-19.646154	-0.000349881467599	0.000304447516328	-0.000002517168931
740	massimi	-0.000405	0.030105	-18.272649	-0.00005803325975	-0.000023539952832	-0.000002425320935
740	minimi	-0.005338	0.028083	-19.85601	-0.000060322690717	-0.000040971963996	-0.000002699020911
741	massimi	-0.000405	0.033457	-17.888007	-0.00005803325975	0.000726404099685	-0.000002089237434
741	minimi	-0.005338	0.031088	-19.409111	-0.000060322690717	0.000645920839405	-0.000002337994809
742	massimi	-0.001844	0.033462	-17.812924	-0.000208366621633	0.000622195481371	-0.000002341450537
742	minimi	-0.006623	0.031088	-19.328887	-0.000224363619347	0.00055027209518	-0.000002624059549
743	massimi	0.001073	0.031848	-18.155775	0.00022922363381	0.000353724508837	-0.00000228769629
743	minimi	-0.004009	0.029648	-19.713243	0.000207169285089	0.000304447516328	-0.000002521661554
744	massimi	0.001091	0.030126	-18.259725	0.00010571925057	0.00008722532802	-0.000002513720341
744	minimi	-0.003992	0.028099	-19.840149	0.000093964661763	0.000060279345537	-0.000002792986824
745	massimi	0.001035	0.033462	-17.877105	0.000103149015558	0.00062259699141	-0.000002357605027
745	minimi	-0.004045	0.031096	-19.395599	0.00009175248351	0.000550658366682	-0.000002625285336
746	massimi	-0.0019	0.030127	-18.195544	-0.000210578799885	0.000087626838059	-0.000002497565851
746	minimi	-0.006675	0.028107	-19.773436	-0.000226933854359	0.000060665617039	-0.000002791761037
747	massimi	0.115286	0.029276	-21.797033	-0.000653777864259	0.000147228048839	-0.000000664169022
747	minimi	0.101329	0.028558	-23.532614	-0.00070889487251	0.000088172691272	-0.000003865873873
748	massimi	0.11648	0.030368	-21.910215	-0.000435152685622	0.000383913023747	-0.000000062747027
748	minimi	0.101465	0.028603	-23.638621	-0.000472211903578	0.000306800011658	-0.000003191677065
749	massimi	0.115316	0.030411	-21.742812	-0.000574599656935	0.000297382194572	-0.000000324604543
749	minimi	0.101353	0.028643	-23.457057	-0.000623138872832	0.000226794531437	-0.000003585478588
750	massimi	0.11648	0.028473	-21.967738	-0.000435152685622	-0.00008945874361	-0.000000326934443
750	minimi	0.101465	0.028143	-23.73467	-0.000472211903578	-0.000130455717613	-0.000003462507656
751	massimi	0.117512	0.029276	-22.08092	-0.0002165622134989	0.00014722804884	0.000000274487552
751	minimi	0.101459	0.028558	-23.840677	-0.000235523105152	0.000088172691272	-0.000002788310848
752	massimi	0.117535	0.028513	-22.083616	-0.000296972514995	-0.000003176133311	-0.00000007807147
752	minimi	0.101483	0.028191	-23.860454	-0.000322580544949	-0.000050832610503	-0.000003290600425
753	massimi	0.117514	0.030327	-22.026196	-0.000297107778014	0.000298106600356	0.000000018494748
753	minimi	0.101463	0.02857	-23.764575	-0.000322806402979	0.000227462085813	-0.000003191605982
754	massimi	0.115294	0.02844	-21.800233	-0.000574734919954	-0.000002451727527	-0.000000421170761
754	minimi	0.101333	0.028108	-23.552937	-0.000623364730862	-0.000050165056127	-0.00000368447303
755	massimi	-0.15843	-0.0133	-12.689242	-0.000205200762452	0.000202001272956	-0.00001554835832
755	minimi	-0.181221	-0.014733	-13.554238	-0.00022176549544	0.000189980748819	-0.000016650738347
756	massimi	-0.148971	-0.024166	-12.793665	-0.000024783890998	-0.000044887437177	-0.00001629325269
756	minimi	-0.171064	-0.02641	-13.665719	-0.000027790781039	-0.000050501852561	-0.000017509604464
757	massimi	-0.148971	-0.002378	-12.553643	-0.000024783890998	0.000451886191861	-0.000016444023391
757	minimi	-0.171064	-0.002993	-13.410511	-0.000027790781039	0.000422386530268	-0.000017676608726
758	massimi	-0.158398	-0.002545	-12.510634	-0.000127044884639	0.000381775067868	-0.000017413211339
758	minimi	-0.181188	-0.003179	-13.363629	-0.000137749942139	0.000357199955933	-0.000018700401751
759	massimi	-0.139228	-0.0133	-12.716806	0.000166178201234	0.000202001272956	-0.000017200705656
759	minimi	-0.160583	-0.014733	-13.585146	0.000155627868529	0.000189980748819	-0.000018548144539
760	massimi	-0.139324	-0.024223	-12.776804	0.000083373922493	0.000023871258402	-0.00001779401304
760	minimi	-0.160688	-0.02648	-13.648232	0.000078623675095	0.000023397832734	-0.000019140526118
761	massimi	-0.139301	-0.002332	-12.538043	0.000081906141813	0.000381960043498	-0.000017864047846
761	minimi	-0.160662	-0.002935	-13.394364	0.000077243237889	0.000357364917683	-0.000019218101608
762	massimi	-0.158374	-0.024011	-12.749395	-0.000128425321844	0.000024036220152	-0.000017343176533
762	minimi	-0.181162	-0.026235	-13.617497	-0.00013921772282	0.000023582808365	-0.000018622826262
763	massimi	-0.027648	-0.005437	-17.638956	-0.000399522433544	0.000214024752183	-0.000003597777316
763	minimi	-0.028609	-0.006826	-19.137417	-0.000434476004261	0.000177901095908	-0.000004460277493
764	massimi	-0.024976	-0.007917	-17.787414	-0.000140655724346	-0.000153061810087	-0.000003712240364
764	minimi	-0.026439	-0.009871	-19.311208	-0.000152067981743	-0.000158466759257	-0.000004558441497
765	massimi	-0.024976	-0.002934	-17.562651	-0.000140655724346	0.00057833718991	-0.000003773873273
765	minimi	-0.026439	-0.003752	-19.040807	-0.000152067981743	0.000511963050511	-0.000004635823757
766	massimi	-0.02764	-0.002968	-17.442516	-0.000288215628728	0.000475107213003	-0.000003999769397
766	minimi	-0.028603	-0.003788	-18.910575	-0.000312968080947	0.000417154264866	-0.000004924155638
767	massimi	-0.022255	-0.005437	-17.79539	0.000130308649531	0.000214024752183	-0.00000389103346
767	minimi	-0.024219	-0.006826	-19.306543	0.000118181949429	0.000177901095908	-0.000004737300324
768	massimi	-0.022283	-0.007925	-17.821651	0.000008952307865	-0.000046633887385	-0.000004051153405

768	minimi	-0.024242	-0.009877	-19.34773	0.000006869577887	-0.000061094661755	-0.00000496379469
769	massimi	-0.022271	-0.00293	-17.598071	0.000007397160009	0.000476119383059	-0.000004079782722
769	minimi	-0.024232	-0.003753	-19.078751	0.000005576911945	0.000418090474518	-0.000004999739792
770	massimi	-0.027628	-0.007888	-17.666096	-0.00028950829467	-0.000045621717329	-0.00000397114008
770	minimi	-0.028594	-0.009841	-19.179555	-0.000314523228803	-0.000060158452103	-0.000004888210535
771	massimi	0.217829	-0.102698	-20.255882	-0.000833953116732	-0.000737816419508	0.000005495770708
771	minimi	0.198092	-0.112444	-21.816804	-0.000900626472728	-0.000754081505472	0.000003264373461
772	massimi	0.216553	-0.104767	-20.702247	-0.000630594562263	-0.000534416190563	0.000005927745627
772	minimi	0.196087	-0.113792	-22.284906	-0.000680970015734	-0.000534449418466	0.000003745934163
773	massimi	0.217814	-0.104705	-20.472527	-0.000761297468751	-0.000610367644505	0.000006111122708
773	minimi	0.198075	-0.113725	-22.036854	-0.000822114791226	-0.000616349335111	0.000003852058741
774	massimi	0.216553	-0.100485	-20.220908	-0.000630594562263	-0.000941174312146	0.00000687780625
774	minimi	0.196087	-0.110939	-21.792956	-0.000680970015734	-0.000973737511183	0.000004786156689
775	massimi	0.214976	-0.102698	-20.667272	-0.00042722823053	-0.000737816419508	0.000007309781169
775	minimi	0.193809	-0.112444	-22.261058	-0.000461305152108	-0.000754081505472	0.000005267717391
776	massimi	0.214968	-0.100434	-20.402701	-0.000503055295512	-0.000868609817744	0.000007121450507
776	minimi	0.193804	-0.11088	-21.989241	-0.000543176141661	-0.000895287984676	0.000004964548147
777	massimi	0.215049	-0.104846	-20.883188	-0.000501923433994	-0.000609400268746	0.000006774182789
777	minimi	0.193878	-0.113881	-22.48032	-0.000542019328374	-0.000615304679916	0.000004584324302
778	massimi	0.217895	-0.100575	-19.99204	-0.000760165607233	-0.000867642441986	0.000006458390426
778	minimi	0.198149	-0.111036	-21.545775	-0.000820957977939	-0.00089424332948	0.000004232282586
779	massimi	-0.244076	-0.046079	-11.313758	-0.000313109010594	0.000136576231665	0.00000810608452
779	minimi	-0.269541	-0.050816	-11.996185	-0.000341801435062	0.000116969840583	0.000007056982663
780	massimi	-0.247644	-0.0422	-11.446724	-0.000153079946076	-0.000085552335094	0.000006874025418
780	minimi	-0.273664	-0.046326	-12.149706	-0.000170939759773	-0.000091005791218	0.000005942701978
781	massimi	-0.247644	-0.049763	-11.298944	-0.000153079946076	0.000356934587833	0.000006297982476
781	minimi	-0.273664	-0.05092	-11.977155	-0.000170939759773	0.000323429386839	0.000005420362182
782	massimi	-0.244173	-0.049939	-11.188135	-0.000244583127366	0.000294288984756	0.000007363213569
782	minimi	-0.269649	-0.055286	-11.854738	-0.000268629398564	0.000264670936052	0.000006363601499
783	massimi	-0.250741	-0.046079	-11.484009	0.000006917544162	0.000136576231665	0.000005070666292
783	minimi	-0.277267	-0.050816	-12.1863	-0.00000011334253	0.000116969840583	0.000004310173058
784	massimi	-0.250793	-0.042415	-11.504433	-0.000062171325912	-0.000021357937542	0.000006802590461
784	minimi	-0.277323	-0.046564	-12.215429	-0.000073870746297	-0.000030965345311	0.000005856778367
785	massimi	-0.250712	-0.049586	-11.35743	-0.000063021251606	0.000295426760978	0.00000653501158
785	minimi	-0.277233	-0.054896	-12.043784	-0.000261676274441	0.000265689837231	0.000005614145244
786	massimi	-0.244092	-0.042061	-11.335138	-0.00024543305306	-0.00002022016132	0.000007630792449
786	minimi	-0.269559	-0.046173	-12.026382	-0.000269621788123	-0.000029946444132	0.000006606234622
787	massimi	-0.00753	-0.044467	-14.995808	-0.00048026071389	-0.000011494962561	-0.000002929150259
787	minimi	-0.008632	-0.049197	-16.201274	-0.000522088911188	-0.000013172913049	-0.000003698210772
788	massimi	-0.005349	-0.046347	-15.098481	-0.000261676274441	-0.00029445345005	-0.000002714308805
788	minimi	-0.006899	-0.051573	-16.312447	-0.000284446600389	-0.00032079752279	-0.000003447692689
789	massimi	-0.005349	-0.042399	-15.113004	-0.000261676274441	0.000294622440034	-0.000003218377253
789	minimi	-0.006899	-0.046612	-16.329089	-0.000284446600389	0.000271612519179	-0.000004005374689
790	massimi	-0.007559	-0.042432	-14.932005	-0.000387527742662	0.000205340167379	-0.000003296780287
790	minimi	-0.008661	-0.046649	-16.132332	-0.000421273013924	0.000189496271511	-0.000004129122965
791	massimi	-0.003158	-0.044467	-15.286838	-0.000043145852569	-0.000011494962561	-0.00000300567326
791	minimi	-0.005153	-0.049197	-16.517627	-0.000046863007624	-0.000013172913049	-0.00000375754184
792	massimi	-0.003217	-0.04636	-15.206953	-0.000138377583982	-0.000214305048533	-0.000003083512582
792	minimi	-0.005204	-0.051584	-16.430354	-0.00015040002433	-0.000233667663648	-0.000003886260318
793	massimi	-0.00313	-0.042422	-15.2214	-0.00013829405922	0.000207233454369	-0.000003317659167
793	minimi	-0.005126	-0.046641	-16.446909	-0.000150304307235	0.000191237998377	-0.00000414531112
794	massimi	-0.007473	-0.046351	-14.917559	-0.0003874442179	-0.000212563321667	-0.000003062633703
794	minimi	-0.008582	-0.051577	-16.115777	-0.000421177296829	-0.000231774376659	-0.000003870072163
795	massimi	0.074558	-0.275384	-13.325914	-0.001232510874139	-0.000162958357542	-0.000023647565035
795	minimi	0.06981	-0.298633	-14.318586	-0.001329557329722	-0.000188316037617	-0.000025672384052
796	massimi	0.083072	-0.267404	-13.745885	-0.001099180680186	-0.000019071926085	-0.000024562177301
796	minimi	0.077652	-0.289968	-14.7585	-0.001185679222785	-0.000054977896538	-0.000026669462713
797	massimi	0.074484	-0.267434	-13.372156	-0.001185755665595	-0.000072773048521	-0.000024661859437
797	minimi	0.069742	-0.290001	-14.355378	-0.001279071641418	-0.000104802766607	-0.000026776763258
798	massimi	0.083072	-0.282979	-13.62303	-0.001099180680186	-0.000306842777265	-0.000022014591076
798	minimi	0.077652	-0.306881	-14.652189	-0.001185679222785	-0.000321651853919	-0.000023906800457
799	massimi	0.091471	-0.275384	-14.043001	-0.000965836916758	-0.000162958357542	-0.000022929203342
799	minimi	0.085386	-0.298633	-15.092103	-0.001041786478542	-0.000188316037617	-0.000024903879119
800	massimi	0.091352	-0.282968	-13.965336	-0.001016436149208	-0.000255487633142	-0.000023468084794
800	minimi	0.085276	-0.306869	-15.021402	-0.001096357056797	-0.000274122282994	-0.000025486045232
801	massimi	0.091567	-0.26749	-14.087973	-0.001016147259356	-0.000070954134426	-0.000024399282692
801	minimi	0.085474	-0.29006	-15.127525	-0.001096107067383	-0.000103116547271	-0.000026495858074
802	massimi	0.074699	-0.283024	-13.249519	-0.001185466775743	-0.000253668719047	-0.000023730661539
802	minimi	0.06994	-0.306928	-14.249255	-0.001278821652005	-0.000272436063658	-0.000025766950417

803	massimi	-0.331869	0.043232	-18.962511	-0.000319522525477	0.001170488992824	0.000016628332654
803	minimi	-0.364718	0.042227	-20.490166	-0.000369675807365	0.001061036724123	0.000015396889783
804	massimi	-0.336732	0.038213	-18.659209	-0.000131207956431	0.001374697280329	0.000015117025286
804	minimi	-0.369964	0.037569	-20.162334	-0.000165461316285	0.001249345553763	0.000014034649413
805	massimi	-0.331912	0.038099	-18.594909	-0.000250172720125	0.001301910462625	0.000016113090561
805	minimi	-0.364765	0.037466	-20.08507	-0.000294492793423	0.001182212654718	0.000014941539216
806	massimi	-0.336732	0.04819	-19.351412	-0.000131207956431	0.000966266255537	0.000014717086931
806	minimi	-0.369964	0.046825	-20.925942	-0.000165461316285	0.000872714795898	0.000013644008166
807	massimi	-0.341125	0.043232	-19.048109	0.000057108232388	0.001170488992824	0.000013205779563
807	minimi	-0.374695	0.042227	-20.59811	0.000038755217428	0.001061036724123	0.000012281767797
808	massimi	-0.341143	0.048049	-19.371332	-0.000011038241436	0.001042585014146	0.000014715887215
808	minimi	-0.374715	0.046697	-20.955078	-0.000035167344945	0.000943078176029	0.000013660106886
809	massimi	-0.341173	0.038365	-18.680355	-0.000012665945301	0.001302164291751	0.000014862073339
809	minimi	-0.374747	0.037708	-20.192823	-0.000036962956174	0.001182413936816	0.000013802894716
810	massimi	-0.331942	0.048316	-19.285885	-0.00025180042399	0.001042838843272	0.000015966904437
810	minimi	-0.364796	0.04694	-20.847325	-0.000296288404653	0.000943279458127	0.000014798751386
811	massimi	0.074415	-0.025015	-17.676013	-0.000437965183338	-0.000705817674456	-0.000003378925102
811	minimi	0.068615	-0.028282	-19.147836	-0.000478471078943	-0.00075649751497	-0.000003594577852
812	massimi	0.075553	-0.023976	-17.991871	-0.000262501819765	-0.000530348333891	-0.000003172301331
812	minimi	0.069686	-0.027177	-19.48845	-0.000287715091346	-0.000565735081928	-0.000003375924555
813	massimi	0.074418	-0.023957	-17.885313	-0.000374874224718	-0.000595747968762	-0.000003318632975
813	minimi	0.068618	-0.027156	-19.37185	-0.000409876845362	-0.000636818936817	-0.000003528876279
814	massimi	0.075553	-0.02602	-17.531407	-0.000262501819765	-0.000881278301644	-0.000002940883344
814	minimi	0.069686	-0.029347	-18.994923	-0.000287715091346	-0.000947250608989	-0.000003114291146
815	massimi	0.076585	-0.025015	-17.847265	-0.000087035215585	-0.000705817674456	-0.000002734259573
815	minimi	0.070659	-0.028282	-19.335536	-0.000096955551882	-0.00075649751497	-0.000002895637849
816	massimi	0.076582	-0.025996	-17.596613	-0.000152057969958	-0.000818564223522	-0.000002998405491
816	minimi	0.070657	-0.029321	-19.066566	-0.000167640876126	-0.000879054906053	-0.000003177765909
817	massimi	0.076603	-0.024007	-18.056261	-0.000150975196732	-0.000595345272779	-0.000003082993773
817	minimi	0.070675	-0.02721	-19.559218	-0.000166480356513	-0.000636377561928	-0.000003273398582
818	massimi	0.074438	-0.026046	-17.425665	-0.000373791451492	-0.000818161527539	-0.000003234044693
818	minimi	0.068636	-0.029375	-18.879198	-0.000408716325749	-0.000878613531164	-0.000003433243605
819	massimi	-0.01621	-0.001882	-18.566744	-0.000374391850294	-0.000526165988572	-0.000028415681462
819	minimi	-0.016664	-0.005862	-20.117666	-0.000376245012479	-0.000577025742794	-0.000031179698821
820	massimi	-0.005779	0.008555	-18.800944	-0.000173997542047	-0.000341732405506	-0.000003177765909
820	minimi	-0.007155	0.003655	-20.362644	-0.000191815861186	-0.000376626798826	-0.000031215132637
821	massimi	-0.016184	0.008525	-18.716449	-0.000301957657023	-0.000410060267084	-0.00002939526201
821	minimi	-0.016642	0.003627	-20.28204	-0.000309628969836	-0.000450851588724	-0.000032240467155
822	massimi	-0.005779	-0.012316	-18.457682	-0.000173997542047	-0.000710593076076	-0.000028421661671
822	minimi	-0.007155	-0.015372	-19.986201	-0.000191815861185	-0.000777417563333	-0.000031197722836
823	massimi	0.004661	-0.001882	-18.691881	0.000026398914214	-0.000526165988572	-0.00002848187551
823	minimi	0.002363	-0.005862	-20.231179	-0.00000738431909	-0.000577025742795	-0.000031233156652
824	massimi	0.004632	-0.012291	-18.498711	-0.000047483245328	-0.000644261277818	-0.000029399633801
824	minimi	0.002335	-0.01535	-20.019577	-0.000075427959102	-0.000705326000419	-0.00003225364349
825	massimi	0.004633	0.008529	-18.841365	-0.000046598047851	-0.00040976600826	-0.000029419457367
825	minimi	0.002339	0.003632	-20.395353	-0.000074620784012	-0.000450584664437	-0.000032260007149
826	massimi	-0.016183	-0.012287	-18.373795	-0.000301072459546	-0.000643967018994	-0.000029375438444
826	minimi	-0.016637	-0.015345	-19.906265	-0.000308821794746	-0.000705059076132	-0.000032234103496
827	massimi	0.103767	-0.102869	-13.850604	-0.000698789552888	-0.000943758915883	-0.000016112501816
827	minimi	0.094884	-0.114457	-14.950621	-0.000761768103162	-0.001027519903598	-0.000017708907871
828	massimi	0.109596	-0.097564	-14.34172	-0.000561845656482	-0.000806805726071	-0.000016124907239
828	minimi	0.100187	-0.108625	-15.485839	-0.000613285079654	-0.000879026752155	-0.000017731393537
829	massimi	0.103756	-0.097555	-14.142093	-0.000650426790148	-0.00085875816509	-0.000016514241181
829	minimi	0.094874	-0.108616	-15.268054	-0.00070934007903	-0.00093536679863	-0.000018154409703
830	massimi	0.109596	-0.10803	-13.726027	-0.000561845656481	-0.001080700454915	-0.000015173266346
830	minimi	0.100187	-0.120129	-14.815501	-0.000613285079654	-0.001176000370225	-0.000016672548719
831	massimi	0.115272	-0.102869	-14.217143	-0.000424894824044	-0.000943758915883	-0.00001518567177
831	minimi	0.10535	-0.114457	-15.350719	-0.000464794485091	-0.001027519903598	-0.000016695034384
832	massimi	0.11523	-0.107994	-13.89338	-0.000476522583362	-0.001032662371877	-0.000015827619401
832	minimi	0.105312	-0.12009	-14.998292	-0.000520782374013	-0.001123924503647	-0.000017396786307
833	massimi	0.115312	-0.097627	-14.507982	-0.000475074791783	-0.000857896254917	-0.000016175464741
833	minimi	0.105386	-0.108695	-15.667442	-0.000519206087274	-0.000934425976818	-0.000017783817002
834	massimi	0.103838	-0.108066	-13.52749	-0.000648978998569	-0.001031800461704	-0.00001616639584
834	minimi	0.094948	-0.120169	-14.598904	-0.000707763792291	-0.001122983681834	-0.000017767379007
835	massimi	0.220886	-0.07804	-17.038544	-0.000670124445797	-0.000560518306576	-0.000022869138078
835	minimi	0.198521	-0.086807	-18.501533	-0.000731830064802	-0.000616593409073	-0.000025355839757
836	massimi	0.22917	-0.070657	-17.384622	-0.000500447307332	-0.000390834619257	-0.000022277285895
836	minimi	0.205994	-0.078622	-18.881048	-0.000546880193561	-0.000431636356243	-0.000024697336497
837	massimi	0.220907	-0.070612	-17.201351	-0.000609418673141	-0.000454069955896	-0.000023127368053

837	minimi	0.19854	-0.078573	-18.680826	-0.000665666685223	-0.000500573700294	-0.00002564022227
838	massimi	0.22917	-0.085314	-17.018949	-0.000500447307332	-0.00073019507425	-0.000021555336231
838	minimi	0.205994	-0.094871	-18.478793	-0.000546880193561	-0.000801542850007	-0.000023894281508
839	massimi	0.237135	-0.07804	-17.365028	-0.000330763990804	-0.000560518306576	-0.000020963484047
839	minimi	0.213179	-0.086807	-18.858308	-0.000361923571039	-0.000616593409073	-0.000023235778248
840	massimi	0.237113	-0.085231	-17.162231	-0.000393948258689	-0.000669540370347	-0.000022166922038
840	minimi	0.213159	-0.094779	-18.635427	-0.000430801649103	-0.000735438736414	-0.00002457175993
841	massimi	0.237175	-0.070761	-17.527257	-0.000393088384763	-0.000453302235045	-0.000022430810264
841	minimi	0.213215	-0.078737	-19.03697	-0.000429855752084	-0.000499734748179	-0.000024865293907
842	massimi	0.220969	-0.08538	-16.836326	-0.000608558799215	-0.000668772649497	-0.000022863479827
842	minimi	0.198596	-0.094944	-18.279283	-0.000664720788204	-0.000734599784299	-0.000025346688292
843	massimi	0.305866	-0.523866	-5.310025	-0.002497206710261	-0.000780534163802	0.000037459528099
843	minimi	0.27749	-0.56429	-5.672632	-0.002678813723268	-0.000846591393926	0.000033479410345
844	massimi	0.293091	-0.535108	-6.36125	-0.002442183526241	-0.000725491087426	0.00003620509076
844	minimi	0.266068	-0.576876	-6.803226	-0.002619447496563	-0.000787203772955	0.00003228696265
845	massimi	0.305668	-0.535051	-5.559104	-0.002481662072571	-0.000748719358295	0.000038659982492
845	minimi	0.277306	-0.576812	-5.942811	-0.002662020510097	-0.00081226074795	0.00003453201439
846	massimi	0.293091	-0.511893	-5.852042	-0.00244218352624	-0.000835567604421	0.000041425356984
846	minimi	0.266068	-0.550917	-6.250924	-0.002619447496563	-0.000905968563658	0.00003713326491
847	massimi	0.279906	-0.523866	-6.903266	-0.002387130193265	-0.000780534163802	0.000040170919645
847	minimi	0.254276	-0.56429	-7.381517	-0.002560048932565	-0.000846591393926	0.000035940817216
848	massimi	0.279777	-0.511899	-6.641217	-0.002411771098565	-0.000818610332301	0.000041559175056
848	minimi	0.254153	-0.550921	-7.097344	-0.002586613083278	-0.000887668174769	0.000037203140224
849	massimi	0.280183	-0.535243	-7.149522	-0.002410573705067	-0.000744972879523	0.000039651054779
849	minimi	0.25453	-0.577023	-7.648668	-0.002585314353411	-0.000808242333964	0.000035431711869
850	massimi	0.306074	-0.51209	-5.050799	-0.002480464679073	-0.000814863853529	0.000040568102769
850	minimi	0.277683	-0.551132	-5.391487	-0.00266072178023	-0.000883649760783	0.000036303442746
851	massimi	0.328431	-0.135526	-12.105808	-0.000793440912639	-0.001023011099436	-0.000000562619173
851	minimi	0.297957	-0.147006	-13.07337	-0.000854296128006	-0.001114552081565	-0.000000745891034
852	massimi	0.328401	-0.135704	-12.659408	-0.0006741475324	-0.000903707243417	0.000000188407168
852	minimi	0.297892	-0.147162	-13.673363	-0.000724834768693	-0.000985079368561	0.000000093158967
853	massimi	0.328421	-0.135614	-12.425247	-0.000751763957079	-0.000949430580208	0.000000109680607
853	minimi	0.297947	-0.147062	-13.421447	-0.000809059227732	-0.001034701751893	-0.000000004866196
854	massimi	0.328401	-0.135159	-11.992012	-0.0006741475324	-0.0011423023263	0.000001453112633
854	minimi	0.297892	-0.146644	-12.946247	-0.000724834768693	-0.001244011035332	0.0000001442161842
855	massimi	0.327914	-0.135526	-12.545611	-0.000554845829756	-0.001023011099436	0.0000002292162634
855	minimi	0.297411	-0.147006	-13.54624	-0.000595364461235	-0.001114552081565	0.0000002193188182
856	massimi	0.327906	-0.13507	-12.198057	-0.000600272583707	-0.00110092195358	0.000001602700663
856	minimi	0.297403	-0.146547	-13.167652	-0.000644655530328	-0.001199105449298	0.00000015752623
857	massimi	0.328011	-0.135829	-12.864271	-0.000598703213786	-0.000948396391175	0.000000116987834
857	minimi	0.297501	-0.147299	-13.893479	-0.000642945730197	-0.001033589805127	0.0000001105608167
858	massimi	0.328527	-0.135285	-11.759034	-0.000750194587158	-0.001099887764547	0.000000567955073
858	minimi	0.298045	-0.146783	-12.695619	-0.000807349427601	-0.001197993502532	0.0000004922263
859	massimi	0.349881	-0.095894	-4.617758	-0.000786973717284	-0.002253735564901	0.000030628094332
859	minimi	0.325124	-0.104351	-4.949956	-0.000855720844494	-0.002425424681818	0.000028325135345
860	massimi	0.339351	-0.105787	-5.595861	-0.000744813845092	-0.002211557184041	0.000031715093987
860	minimi	0.315385	-0.115045	-6.005295	-0.00080990950226	-0.002379593369352	0.000029340391572
861	massimi	0.349861	-0.10566	-5.347068	-0.000774513956524	-0.002231166113903	0.000032521276382
861	minimi	0.325106	-0.114908	-5.734777	-0.000842164860442	-0.002400863066944	0.00003008178511
862	massimi	0.339351	-0.085868	-4.12556	-0.000744813845092	-0.002295886123212	0.000032680445206
862	minimi	0.315385	-0.093511	-4.422988	-0.00080990950226	-0.002471226052219	0.000030227513857
863	massimi	0.328348	-0.095894	-5.103663	-0.000702644778112	-0.002253735564901	0.000033767444861
863	minimi	0.305205	-0.104351	-5.478327	-0.000764088161627	-0.002425424681818	0.000031242770085
864	massimi	0.328384	-0.085793	-4.364416	-0.000720970913408	-0.002284709157019	0.000034021633701
864	minimi	0.305239	-0.093431	-4.682709	-0.000783984445299	-0.002459043482087	0.000031472506142
865	massimi	0.328459	-0.105887	-5.832112	-0.000717513526868	-0.002230023517849	0.000033668776939
865	minimi	0.305308	-0.115152	-6.262213	-0.000780263675756	-0.002399620609641	0.000031148243748
866	massimi	0.349936	-0.08602	-3.879373	-0.000771056569984	-0.002283566560965	0.000032874133144
866	minimi	0.325175	-0.093675	-4.155273	-0.000838444090899	-0.002457801024784	0.000030406047503
867	massimi	0.034428	0.034485	-12.672642	-0.000015566630748	0.000122368937072	0.000005395985663
867	minimi	0.029956	0.032005	-13.95978	-0.00001737968461	0.000108039246473	0.00000508813684
868	massimi	0.032596	0.032606	-12.602512	0.000118403763296	0.000258150898799	0.000005706269228
868	minimi	0.028231	0.030238	-13.881242	0.000106955803582	0.000230560353737	0.000005366758019
869	massimi	0.03444	0.032627	-12.622963	0.000032475740336	0.000208869526341	0.000005734917709
869	minimi	0.029967	0.030257	-13.903867	0.000029418128021	0.000186088188145	0.000005399125942
870	massimi	0.032596	0.036316	-12.672995	0.000118403763296	-0.00001341453531	0.000005387247137
870	minimi	0.028231	0.033728	-13.961074	0.000106955803582	-0.000014483194545	0.000005070677735
871	massimi	0.030718	0.034485	-12.602865	0.000254185749499	0.000122368937072	0.000005697530701
871	minimi	0.026466	0.032005	-13.882536	0.000229476917534	0.000108039246473	0.000005349298914

872	massimi	0.03074	0.036327	-12.623669	0.000204901006089	0.000036444260588	0.000005728529468
872	minimi	0.026486	0.033738	-13.906449	0.000185003830864	0.000030502485303	0.000005386362581
873	massimi	0.030715	0.032604	-12.553311	0.000204713283659	0.000208687886763	0.000005845138946
873	minimi	0.026463	0.030236	-13.826759	0.000184838091172	0.000185924110531	0.000005494586332
874	massimi	0.034415	0.036304	-12.693322	0.000032288017906	0.00003626262101	0.000005618308231
874	minimi	0.029944	0.033717	-13.983557	0.00002925238833	0.000030338407688	0.000005290902191
875	massimi	-0.017267	0.02762	-18.991255	-0.000116521150756	0.000387276628942	0.000003719587504
875	minimi	-0.020575	0.024967	-21.344965	-0.000130558981255	0.000339421063623	0.000003521846016
876	massimi	-0.018429	0.02639	-18.857246	0.000081656466715	0.000599489182403	0.00000374650253
876	minimi	-0.021801	0.0238	-21.192002	0.000071408763614	0.000527348442129	0.000003552087089
877	massimi	-0.017263	0.026389	-18.858549	-0.000047538065157	0.000522704975639	0.000003822976816
877	minimi	-0.020572	0.0238	-21.193808	-0.000052656739888	0.000459344860786	0.000003624572295
878	massimi	-0.018429	0.02881	-19.078678	0.000081656466715	0.000175059294519	0.000003490992712
878	minimi	-0.021801	0.026098	-21.444655	0.000071408763614	0.000151489494936	0.000003321120522
879	massimi	-0.019565	0.02762	-18.944669	0.000293870906629	0.000387276628942	0.000003517907738
879	minimi	-0.022996	0.024967	-21.291693	0.000259337796437	0.000339421063623	0.000003351361595
880	massimi	-0.019555	0.028803	-19.033086	0.000216826879969	0.000253221355781	0.000003655864129
880	minimi	-0.022985	0.026092	-21.392837	0.000191106367143	0.000220700428485	0.000003477833272
881	massimi	-0.019573	0.026405	-18.812045	0.000216232770782	0.00052257970896	0.000003749258497
881	minimi	-0.023005	0.023813	-21.140631	0.00019058567171	0.000459235314794	0.00000356225655
882	massimi	-0.017281	0.028819	-19.079589	-0.000048058760591	0.000253096089103	0.000003729582448
882	minimi	-0.020592	0.026105	-21.446014	-0.000053250849075	0.000220590882493	0.000003540149017
883	massimi	-0.030145	0.011207	-19.387444	-0.000180732879697	0.000575055953602	0.000004694230391
883	minimi	-0.035772	0.010177	-21.796924	-0.000200964985887	0.000503948180485	0.00000442080518
884	massimi	-0.031596	0.009687	-19.219311	0.000016140798488	0.000792158088791	0.000004573486338
884	minimi	-0.03731	0.008741	-21.60408	0.00001149228052	0.000696170159124	0.000004321731296
885	massimi	-0.030149	0.009679	-19.200694	-0.000110152294647	0.000713841842486	0.000004754460733
885	minimi	-0.035777	0.008734	-21.584085	-0.000121239202845	0.000626818491966	0.000004487828949
886	massimi	-0.031596	0.012711	-19.548079	0.000016140798488	0.0003579467193	0.000004469813698
886	minimi	-0.03731	0.0116	-21.979237	0.00001149228052	0.000311719980564	0.000004227581169
887	massimi	-0.033004	0.011207	-19.379946	0.000233246383604	0.000575055953602	0.000004349069645
887	minimi	-0.038797	0.010177	-21.786394	0.000203717298864	0.000503948180485	0.000004128507285
888	massimi	-0.033	0.012695	-19.521395	0.000154454981223	0.000438147658419	0.000004590402416
888	minimi	-0.038793	0.011586	-21.948067	0.000133946975294	0.000382719222026	0.000004346573834
889	massimi	-0.033008	0.009706	-19.19321	0.000153572890539	0.000713817081383	0.00000462829701
889	minimi	-0.038802	0.008757	-21.573574	0.000133173883861	0.000626800862011	0.000004380987742
890	massimi	-0.030156	0.012722	-19.528879	-0.000110925386079	0.000438122897316	0.000004716566139
890	minimi	-0.035785	0.011609	-21.958578	-0.000122121378529	0.000382701592071	0.00000445341504
891	massimi	-0.05612	0.000593	-19.430601	-0.000192108732504	0.000588800789995	0.000008446764485
891	minimi	-0.064022	0.000452	-21.847076	-0.000214955696679	0.000515456976595	0.00000782142102
892	massimi	-0.058686	-0.001932	-19.262267	0.000002713465246	0.000806466300774	0.000008139919231
892	minimi	-0.06679	-0.002269	-21.654129	0.000000598999041	0.000708161522764	0.000007552710853
893	massimi	-0.056134	-0.001947	-19.240053	-0.000121360739684	0.000727956281006	0.000008522883697
893	minimi	-0.064038	-0.002286	-21.629704	-0.000135035383179	0.000638643915351	0.000007901958454
894	massimi	-0.058686	0.003173	-19.598543	0.000002713465246	0.000371128010422	0.000008135734236
894	minimi	-0.06679	0.003117	-22.038253	0.000000598999041	0.000322746067068	0.00000754722733
895	massimi	-0.06117	0.000593	-19.43021	0.000220382593673	0.000588800789995	0.000007828888982
895	minimi	-0.069465	0.000452	-21.845306	0.000193306723191	0.000515456976595	0.000007278517163
896	massimi	-0.061171	0.003142	-19.575342	0.000141374317682	0.000451546580144	0.000008295507123
896	minimi	-0.069466	0.003089	-22.01138	0.000123351414466	0.0003939317612	0.000007701511
897	massimi	-0.061171	-0.001905	-19.239662	0.000140471056467	0.000727952118362	0.000008297036829
897	minimi	-0.069467	-0.002238	-21.627936	0.000122560667743	0.000638642996445	0.000007703515346
898	massimi	-0.056135	0.00319	-19.575733	-0.000122151486407	0.000451542417501	0.000008521353991
898	minimi	-0.064038	0.003132	-22.013147	-0.000135938644395	0.000393930842294	0.000007899954108
899	massimi	-0.09896	-0.014366	-19.322803	-0.000215020000325	0.000463395361892	0.000011735694907
899	minimi	-0.112038	-0.015939	-21.72173	-0.000239523026437	0.000401487233278	0.000010782766565
900	massimi	-0.102479	-0.017803	-19.199457	-0.000023062297706	0.000679853372649	0.000011126038368
900	minimi	-0.115864	-0.019673	-21.578097	-0.000023345542255	0.000593159357253	0.000010242299933
901	massimi	-0.098988	-0.017833	-19.169501	-0.000144775311086	0.000601561883134	0.000011742183367
901	minimi	-0.112069	-0.019707	-21.545349	-0.000160181690777	0.000523816236914	0.00001080148566
902	massimi	-0.102479	-0.010909	-19.46138	-0.000023062297706	0.000246931630482	0.000011273486518
902	minimi	-0.115864	-0.012182	-21.880409	-0.000023345542255	0.00020981015291	0.000010375198386
903	massimi	-0.105855	-0.014366	-19.338034	0.00019339871573	0.000463395361892	0.000010663829979
903	minimi	-0.119529	-0.015939	-21.736776	0.000168329204018	0.000401487233278	0.000009834731753
904	massimi	-0.105864	-0.010956	-19.446164	0.000114693669147	0.00032668652321	0.000011404289029
904	minimi	-0.11954	-0.012236	-21.862144	0.000098624916384	0.000280416009444	0.00001050353568
905	massimi	-0.105854	-0.017759	-19.184704	0.000113982788548	0.000601597262297	0.000011350393539
905	minimi	-0.119529	-0.019623	-21.560368	0.000098009007145	0.000523852050594	0.00001045495842
906	massimi	-0.098978	-0.010883	-19.430961	-0.000145391220325	0.000326721902373	0.000011796078857

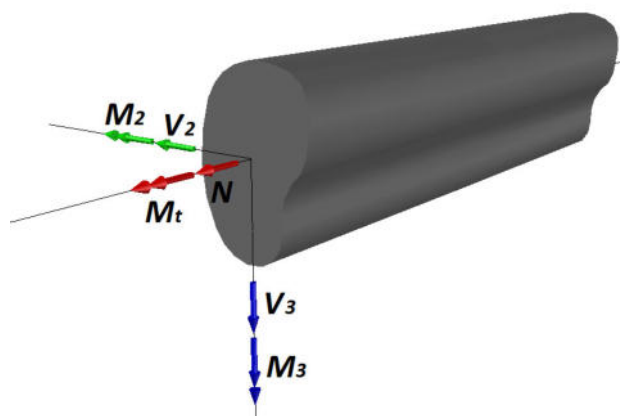
906	minimi	-0.112058	-0.012153	-21.847125	-0.000160892571375	0.000280451823124	0.000010850062921
907	massimi	0.00	0.00	0.00	0.00	0.00	0.00
907	minimi	0.00	0.00	0.00	0.00	0.00	0.00
908	massimi	0.00	0.00	0.00	0.00	0.00	0.00
908	minimi	0.00	0.00	0.00	0.00	0.00	0.00
909	massimi	0.00	0.00	0.00	0.00	0.00	0.00
909	minimi	0.00	0.00	0.00	0.00	0.00	0.00
910	massimi	0.00	0.00	0.00	0.00	0.00	0.00
910	minimi	0.00	0.00	0.00	0.00	0.00	0.00

1.4.1.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N:** sforzo normale;
- **V₂:** sforzo di taglio in direzione 2;
- **V₃:** sforzo di taglio in direzione 3;
- **M_t:** momento torcente;
- **M₂:** momento flettente nel piano 1-2;
- **M₃:** momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 1 (11-1)	31	massimi	0.00	6.83924	0.584	15.46002	-0.59253	-2.65046	1.555
Asta 1 (11-1)	31	massimi	237.00	6.83924	0.584	-5.09812	-0.59253	8.92437	0.171
Asta 1 (11-1)	31	massimi	474.00	6.83924	0.584	-24.97057	-0.59253	-27.26007	-0.937
Asta 1 (11-1)	31	minimi	0.00	6.51704	0.461	14.77433	-0.6262	-3.095	1.249
Asta 1 (11-1)	31	minimi	237.00	6.51704	0.461	-5.69223	-0.6262	8.37132	0.156
Asta 1 (11-1)	31	minimi	474.00	6.51704	0.461	-26.84448	-0.6262	-29.63163	-1.213
Asta 2 (1-221)	32	massimi	0.00	39.88703	0.08292	31.07766	-0.49542	-34.57548	0.066
Asta 2 (1-221)	32	massimi	315.00	39.88703	0.08292	2.96391	-0.49542	14.82779	-0.195
Asta 2 (1-221)	32	massimi	630.00	39.88703	0.08292	-24.20801	-0.49542	-20.11505	-0.456
Asta 2	32	minimi	0.00	33.05674	0.08154	28.61748	-0.54606	-38.78769	0.041

(1-221)									
Asta 2 (1-221)	32	minimi	315.00	33.05674	0.08154	2.20474	-0.54606	13.96952	-0.216
Asta 2 (1-221)	32	minimi	630.00	33.05674	0.08154	-25.14984	-0.54606	-20.68564	-0.473
Asta 3 (6-16)	33	massimi	0.00	8.39525	0.57084	34.10482	-0.90705	-43.11704	1.372
Asta 3 (6-16)	33	massimi	237.00	8.39525	0.57084	12.95257	-0.90705	8.67603	0.019
Asta 3 (6-16)	33	massimi	474.00	8.39525	0.57084	-8.17385	-0.90705	14.30821	-1.279
Asta 3 (6-16)	33	minimi	0.00	7.95931	0.54617	31.57104	-1.03452	-47.08699	1.31
Asta 3 (6-16)	33	minimi	237.00	7.95931	0.54617	11.6986	-1.03452	8.15748	0.016
Asta 3 (6-16)	33	minimi	474.00	7.95931	0.54617	-8.19968	-1.03452	12.3343	-1.334
Asta 4 (221-6)	34	massimi	0.00	37.92566	-0.14698	24.06046	0.65689	-16.77958	-0.533
Asta 4 (221-6)	34	massimi	315.00	37.92566	-0.14698	-3.14665	0.65689	14.73171	-0.07
Asta 4 (221-6)	34	massimi	630.00	37.92566	-0.14698	-29.55939	0.65689	-37.6235	0.40
Asta 4 (221-6)	34	minimi	0.00	31.35445	-0.15423	23.2661	0.57785	-17.79963	-0.572
Asta 4 (221-6)	34	minimi	315.00	31.35445	-0.15423	-4.05329	0.57785	13.88851	-0.086
Asta 4 (221-6)	34	minimi	630.00	31.35445	-0.15423	-32.16704	0.57785	-42.31531	0.393
Asta 5 (26-11)	35	massimi	0.00	9.06161	-0.14187	21.06406	-0.80621	-15.11031	-0.338
Asta 5 (26-11)	35	massimi	237.00	9.06161	-0.14187	-0.07293	-0.80621	8.81762	0.008
Asta 5 (26-11)	35	massimi	474.00	9.06161	-0.14187	-19.94538	-0.80621	-15.45602	0.40
Asta 5 (26-11)	35	minimi	0.00	8.3789	-0.16519	19.79952	-0.90647	-16.03879	-0.383
Asta 5 (26-11)	35	minimi	237.00	8.3789	-0.16519	-0.08819	-0.90647	8.26569	-0.002
Asta 5 (26-11)	35	minimi	474.00	8.3789	-0.16519	-21.24044	-0.90647	-16.4568	0.334
Asta 6 (11-226)	36	massimi	0.00	60.10641	0.12175	34.75026	-0.16358	-44.40915	0.343
Asta 6 (11-226)	36	massimi	315.00	60.10641	0.12175	6.63652	-0.16358	14.19412	-0.035
Asta 6 (11-226)	36	massimi	630.00	60.10641	0.12175	-21.25344	-0.16358	-9.18001	-0.413
Asta 6 (11-226)	36	minimi	0.00	48.31059	0.12008	31.57206	-0.1741	-50.99006	0.343
Asta 6 (11-226)	36	minimi	315.00	48.31059	0.12008	5.15931	-0.1741	13.44274	-0.041
Asta 6 (11-226)	36	minimi	630.00	48.31059	0.12008	-21.47723	-0.1741	-11.90552	-0.424
Asta 7 (16-21)	37	massimi	0.00	13.26676	-0.02686	13.75989	-0.79302	-10.76816	-0.151
Asta 7 (16-21)	37	massimi	307.50	13.26676	-0.02686	-1.11755	-0.79302	8.14082	-0.068
Asta 7 (16-21)	37	massimi	615.00	13.26676	-0.02686	-15.50855	-0.79302	-17.89694	0.014
Asta 7 (16-21)	37	minimi	0.00	12.18151	-0.02691	13.27345	-0.87029	-11.02401	-0.157
Asta 7 (16-21)	37	minimi	307.50	12.18151	-0.02691	-1.46136	-0.87029	7.66569	-0.074
Asta 7 (16-21)	37	minimi	615.00	12.18151	-0.02691	-16.68261	-0.87029	-19.75555	0.008
Asta 8 (16-31)	38	massimi	0.00	17.49691	0.47264	25.85112	-0.48181	-24.70097	1.275
Asta 8 (16-31)	38	massimi	237.00	17.49691	0.47264	4.69887	-0.48181	9.18424	0.155
Asta 8	38	massimi	474.00	17.49691	0.47264	-15.75892	-0.48181	-4.74487	-0.873

(16-31)									
Asta 8 (16-31)	38	minimi	0.00	15.99249	0.42575	23.98598	-0.50529	-27.01749	1.145
Asta 8 (16-31)	38	minimi	237.00	15.99249	0.42575	4.11353	-0.50529	8.59695	0.136
Asta 8 (16-31)	38	minimi	474.00	15.99249	0.42575	-16.45338	-0.50529	-5.20284	-0.965
Asta 9 (226-16)	39	massimi	0.00	54.67877	-0.15511	20.9059	0.52499	-6.44816	-0.59
Asta 9 (226-16)	39	massimi	315.00	54.67877	-0.15511	-5.58347	0.52499	15.12626	-0.101
Asta 9 (226-16)	39	massimi	630.00	54.67877	-0.15511	-31.99622	0.52499	-44.95691	0.396
Asta 9 (226-16)	39	minimi	0.00	43.87042	-0.16314	20.82928	0.45272	-9.78104	-0.632
Asta 9 (226-16)	39	minimi	315.00	43.87042	-0.16314	-7.20785	0.45272	14.2311	-0.118
Asta 9 (226-16)	39	minimi	630.00	43.87042	-0.16314	-35.3216	0.45272	-51.85762	0.387
Asta 10 (21-36)	40	massimi	0.00	25.99974	0.1815	22.98058	-1.05245	-33.74442	0.522
Asta 10 (21-36)	40	massimi	237.00	25.99974	0.1815	11.24908	-1.05245	3.83256	0.092
Asta 10 (21-36)	40	massimi	474.00	25.99974	0.1815	-0.48243	-1.05245	16.59104	-0.311
Asta 10 (21-36)	40	minimi	0.00	23.83558	0.16812	21.32486	-1.24038	-36.72958	0.486
Asta 10 (21-36)	40	minimi	237.00	23.83558	0.16812	10.23326	-1.24038	3.65195	0.087
Asta 10 (21-36)	40	minimi	474.00	23.83558	0.16812	-0.85834	-1.24038	14.76123	-0.338
Asta 11 (41-26)	41	massimi	0.00	6.8485	0.1505	21.38575	0.05553	-16.11779	0.058
Asta 11 (41-26)	41	massimi	237.00	6.8485	0.1505	0.2335	0.05553	8.43311	-0.276
Asta 11 (41-26)	41	massimi	474.00	6.8485	0.1505	-19.66742	0.05553	-15.14597	-0.61
Asta 11 (41-26)	41	minimi	0.00	6.36062	0.14088	20.07747	0.0541	-17.1857	0.049
Asta 11 (41-26)	41	minimi	237.00	6.36062	0.14088	0.20503	0.0541	7.91697	-0.308
Asta 11 (41-26)	41	minimi	474.00	6.36062	0.14088	-20.91875	0.0541	-16.07891	-0.665
Asta 12 (26-231)	42	massimi	0.00	53.87436	0.12842	33.67881	-0.04491	-41.57149	0.349
Asta 12 (26-231)	42	massimi	315.00	53.87436	0.12842	5.56506	-0.04491	14.01584	-0.056
Asta 12 (26-231)	42	massimi	630.00	53.87436	0.12842	-22.20165	-0.04491	-12.73338	-0.426
Asta 12 (26-231)	42	minimi	0.00	42.7823	0.11727	30.62385	-0.05209	-47.79324	0.313
Asta 12 (26-231)	42	minimi	315.00	42.7823	0.11727	4.2111	-0.05209	13.29356	-0.057
Asta 12 (26-231)	42	minimi	630.00	42.7823	0.11727	-22.54869	-0.05209	-15.04155	-0.46
Asta 13 (31-36)	43	massimi	0.00	23.08932	-0.08349	14.53331	0.00807	-14.17483	-0.274
Asta 13 (31-36)	43	massimi	307.50	23.08932	-0.08349	-0.28719	0.00807	7.11243	-0.018
Asta 13 (31-36)	43	massimi	615.00	23.08932	-0.08349	-14.67819	0.00807	-16.18727	0.246
Asta 13 (31-36)	43	minimi	0.00	19.89006	-0.08716	14.10381	0.0026	-14.42106	-0.29
Asta 13 (31-36)	43	minimi	307.50	19.89006	-0.08716	-0.68794	0.0026	6.822	-0.022
Asta 13 (31-36)	43	minimi	615.00	19.89006	-0.08716	-15.90919	0.0026	-18.40566	0.239
Asta 14 (31-46)	44	massimi	0.00	17.80171	0.51494	22.42478	0.01402	-18.13561	1.429
Asta 14	44	massimi	237.00	17.80171	0.51494	1.27253	0.01402	8.78922	0.208

(31-46)									
Asta 14 (31-46)	44	massimi	474.00	17.80171	0.51494	-18.685	0.01402	-12.50711	-0.945
Asta 14 (31-46)	44	minimi	0.00	16.18171	0.47894	21.0599	0.0132	-19.29209	1.325
Asta 14 (31-46)	44	minimi	237.00	16.18171	0.47894	1.18745	0.0132	8.22749	0.19
Asta 14 (31-46)	44	minimi	474.00	16.18171	0.47894	-19.87972	0.0132	-13.26031	-1.012
Asta 15 (231-31)	45	massimi	0.00	46.27631	-0.16127	21.99676	0.04141	-9.47117	-0.487
Asta 15 (231-31)	45	massimi	315.00	46.27631	-0.16127	-4.67222	0.04141	15.53947	0.021
Asta 15 (231-31)	45	massimi	630.00	46.27631	-0.16127	-31.08497	0.04141	-41.74731	0.574
Asta 15 (231-31)	45	minimi	0.00	36.34428	-0.17588	21.74053	0.02102	-12.31233	-0.534
Asta 15 (231-31)	45	minimi	315.00	36.34428	-0.17588	-6.11699	0.02102	14.57026	0.02
Asta 15 (231-31)	45	minimi	630.00	36.34428	-0.17588	-34.23074	0.02102	-48.0082	0.529
Asta 16 (36-51)	46	massimi	0.00	52.56191	0.10709	19.17221	1.39464	-23.07586	0.303
Asta 16 (36-51)	46	massimi	237.00	52.56191	0.10709	7.44071	1.39464	6.91187	0.064
Asta 16 (36-51)	46	massimi	474.00	52.56191	0.10709	-4.18333	1.39464	10.64451	-0.175
Asta 16 (36-51)	46	minimi	0.00	48.20923	0.10078	17.99987	1.29325	-24.62443	0.295
Asta 16 (36-51)	46	minimi	237.00	48.20923	0.10078	6.90827	1.29325	6.44028	0.041
Asta 16 (36-51)	46	minimi	474.00	48.20923	0.10078	-4.2908	1.29325	9.66933	-0.213
Asta 17 (71-41)	47	massimi	0.00	5.64707	0.02894	21.52391	1.03416	-16.27281	-0.331
Asta 17 (71-41)	47	massimi	237.00	5.64707	0.02894	0.37167	1.03416	8.54756	-0.378
Asta 17 (71-41)	47	massimi	474.00	5.64707	0.02894	-19.558	1.03416	-14.78232	-0.389
Asta 17 (71-41)	47	minimi	0.00	5.29698	0.00492	20.1869	0.94607	-17.39871	-0.366
Asta 17 (71-41)	47	minimi	237.00	5.29698	0.00492	0.31445	0.94607	8.02129	-0.40
Asta 17 (71-41)	47	minimi	474.00	5.29698	0.00492	-20.78058	0.94607	-15.63701	-0.468
Asta 18 (41-236)	48	massimi	0.00	51.35136	0.0023	33.72509	-0.03468	-41.79107	-0.336
Asta 18 (41-236)	48	massimi	315.00	51.35136	0.0023	5.61134	-0.03468	13.93226	-0.343
Asta 18 (41-236)	48	massimi	630.00	51.35136	0.0023	-22.15606	-0.03468	-12.67117	-0.35
Asta 18 (41-236)	48	minimi	0.00	40.47627	0.00015	30.66944	-0.03983	-48.02262	-0.374
Asta 18 (41-236)	48	minimi	315.00	40.47627	0.00015	4.25669	-0.03983	13.21758	-0.374
Asta 18 (41-236)	48	minimi	630.00	40.47627	0.00015	-22.50241	-0.03983	-14.97393	-0.375
Asta 19 (46-51)	49	massimi	0.00	25.68	-0.06697	17.77276	-0.96744	-22.3363	-0.215
Asta 19 (46-51)	49	massimi	307.50	25.68	-0.06697	2.72637	-0.96744	8.57088	0.002
Asta 19 (46-51)	49	massimi	615.00	25.68	-0.06697	-11.66463	-0.96744	-5.56913	0.26
Asta 19 (46-51)	49	minimi	0.00	22.26386	-0.0839	17.11737	-1.05683	-22.67768	-0.256
Asta 19 (46-51)	49	minimi	307.50	22.26386	-0.0839	2.55151	-1.05683	8.17345	-0.009
Asta 19 (46-51)	49	minimi	615.00	22.26386	-0.0839	-12.66974	-1.05683	-6.98591	0.197
Asta 20	50	massimi	0.00	16.43746	0.55154	21.317	0.93345	-15.77745	1.382

(46-76)									
Asta 20 (46-76)	50	massimi	237.00	16.43746	0.55154	0.21228	0.93345	8.82696	0.075
Asta 20 (46-76)	50	massimi	474.00	16.43746	0.55154	-19.66016	0.93345	-14.77122	-1.137
Asta 20 (46-76)	50	minimi	0.00	15.04668	0.50239	20.08473	0.84556	-16.62892	1.245
Asta 20 (46-76)	50	minimi	237.00	15.04668	0.50239	0.16475	0.84556	8.27452	0.054
Asta 20 (46-76)	50	minimi	474.00	15.04668	0.50239	-20.9875	0.84556	-15.848	-1.232
Asta 21 (236-46)	51	massimi	0.00	43.20917	-0.16342	22.3347	-0.2914	-10.47604	-0.272
Asta 21 (236-46)	51	massimi	315.00	43.20917	-0.16342	-4.37081	-0.2914	15.59911	0.264
Asta 21 (236-46)	51	massimi	630.00	43.20917	-0.16342	-30.78355	-0.2914	-40.74618	0.823
Asta 21 (236-46)	51	minimi	0.00	33.52767	-0.17753	22.04194	-0.31304	-13.21011	-0.295
Asta 21 (236-46)	51	minimi	315.00	33.52767	-0.17753	-5.77905	-0.31304	14.62193	0.243
Asta 21 (236-46)	51	minimi	630.00	33.52767	-0.17753	-33.8928	-0.31304	-46.88406	0.758
Asta 22 (66-51)	52	massimi	0.00	65.88774	-0.13803	7.811	27.26178	-5.8485	-0.242
Asta 22 (66-51)	52	massimi	116.50	65.88774	-0.13803	2.04425	27.26178	-0.91275	-0.081
Asta 22 (66-51)	52	massimi	233.00	65.88774	-0.13803	-3.7225	27.26178	-1.89033	0.217
Asta 22 (66-51)	52	minimi	0.00	60.83267	-0.27854	6.94554	25.01796	-6.65344	-0.432
Asta 22 (66-51)	52	minimi	116.50	60.83267	-0.27854	1.49334	25.01796	-0.93286	-0.107
Asta 22 (66-51)	52	minimi	233.00	60.83267	-0.27854	-3.95886	25.01796	-2.36903	0.079
Asta 23 (61-56)	53	massimi	0.00	2.18859	0.97313	-31.06338	9.78996	-8.60395	1.649
Asta 23 (61-56)	53	massimi	204.50	-2.55474	0.70183	-18.60097	9.78996	-54.13482	-0.098
Asta 23 (61-56)	53	massimi	409.00	-7.25626	0.27779	51.48309	9.78996	-50.22615	-1.058
Asta 23 (61-56)	53	minimi	0.00	2.11704	0.90082	-33.00709	9.09664	-9.28004	1.53
Asta 23 (61-56)	53	minimi	204.50	-2.95555	0.65455	-20.06303	9.09664	-57.95929	-0.099
Asta 23 (61-56)	53	minimi	409.00	-8.1341	0.24152	48.38863	9.09665	-54.31934	-1.143
Asta 24 (56-66)	54	massimi	0.00	0.73189	0.07826	42.31001	-1.7187	-78.09813	0.264
Asta 24 (56-66)	54	massimi	205.50	0.73189	0.07826	32.13775	-1.7187	-7.27837	0.103
Asta 24 (56-66)	54	massimi	411.00	0.73189	0.07826	21.9655	-1.7187	47.69584	-0.055
Asta 24 (56-66)	54	minimi	0.00	0.41858	0.0746	39.27087	-1.77556	-84.39034	0.252
Asta 24 (56-66)	54	minimi	205.50	0.41858	0.0746	29.65347	-1.77556	-7.89526	0.099
Asta 24 (56-66)	54	minimi	411.00	0.41858	0.0746	20.03607	-1.77556	43.77762	-0.058
Asta 25 (56-86)	55	massimi	0.00	0.45356	-3.69579	-99.31687	-1.21806	13.28604	-1.638
Asta 25 (56-86)	55	massimi	166.00	-0.03414	-0.04888	2.94564	-1.21805	-60.56855	1.585
Asta 25 (56-86)	55	massimi	332.00	-0.5221	3.75669	109.19353	-1.21804	21.54408	-1.262
Asta 25 (56-86)	55	minimi	0.00	0.41282	-4.05302	-106.35048	-1.32583	12.42017	-1.758
Asta 25 (56-86)	55	minimi	166.00	-0.06691	-0.07689	2.71005	-1.32581	-64.8334	1.433
Asta 25	55	minimi	332.00	-0.54715	3.32588	101.92138	-1.3258	20.01153	-1.485

(56-86)									
Asta 26 (91-61)	56	massimi	0.00	-0.62599	3.60466	-17.79385	0.41718	-5.69496	1.182
Asta 26 (91-61)	56	massimi	166.00	-0.55188	-0.1405	-1.15946	0.41719	-19.26387	-1.512
Asta 26 (91-61)	56	massimi	332.00	-0.48201	-3.71364	17.50645	0.41719	-8.94256	1.759
Asta 26 (91-61)	56	minimi	0.00	-0.71098	3.20567	-18.68084	0.37397	-6.13851	1.02
Asta 26 (91-61)	56	minimi	166.00	-0.61593	-0.14864	-1.25506	0.37397	-20.40175	-1.682
Asta 26 (91-61)	56	minimi	332.00	-0.5256	-4.08068	16.68003	0.37398	-9.63648	1.632
Asta 27 (81-66)	57	massimi	0.00	65.80948	0.45335	-1.81173	-18.75966	11.30829	0.715
Asta 27 (81-66)	57	massimi	120.50	65.80948	0.45335	-7.45113	-18.75966	5.03341	0.169
Asta 27 (81-66)	57	massimi	241.00	65.80948	0.45335	-13.09053	-18.75966	-7.56721	-0.184
Asta 27 (81-66)	57	minimi	0.00	60.75807	0.28055	-2.225	-20.43405	10.39001	0.492
Asta 27 (81-66)	57	minimi	120.50	60.75807	0.28055	-8.18975	-20.43405	4.80914	0.154
Asta 27 (81-66)	57	minimi	241.00	60.75807	0.28055	-14.1545	-20.43405	-8.429	-0.377
Asta 28 (101-71)	58	massimi	0.00	2.70363	1.29663	23.79229	0.48785	-20.51911	3.949
Asta 28 (101-71)	58	massimi	237.00	2.70363	1.29663	2.64004	0.48785	9.09131	0.876
Asta 28 (101-71)	58	massimi	474.00	2.70363	1.29663	-17.56035	0.48785	-9.55978	-2.197
Asta 28 (101-71)	58	minimi	0.00	2.55075	1.27869	22.18454	0.43716	-22.23101	3.83
Asta 28 (101-71)	58	minimi	237.00	2.55075	1.27869	2.31209	0.43716	8.5094	0.799
Asta 28 (101-71)	58	minimi	474.00	2.55075	1.27869	-18.51221	0.43716	-9.7172	-2.231
Asta 29 (71-241)	59	massimi	0.00	56.03192	-0.16816	34.82967	0.02626	-45.076	-1.223
Asta 29 (71-241)	59	massimi	315.00	56.03192	-0.16816	6.71592	0.02626	13.80021	-0.694
Asta 29 (71-241)	59	massimi	630.00	56.03192	-0.16816	-21.15248	0.02626	-9.32379	-0.164
Asta 29 (71-241)	59	minimi	0.00	45.06446	-0.17386	31.67302	0.00994	-51.63409	-1.296
Asta 29 (71-241)	59	minimi	315.00	45.06446	-0.17386	5.26027	0.00994	13.09394	-0.748
Asta 29 (71-241)	59	minimi	630.00	45.06446	-0.17386	-21.39783	0.00994	-11.93628	-0.201
Asta 30 (76-81)	60	massimi	0.00	35.19387	0.04568	20.04918	-1.25272	-26.36109	0.099
Asta 30 (76-81)	60	massimi	307.50	35.19387	0.04568	4.82867	-1.25272	11.22728	-0.037
Asta 30 (76-81)	60	massimi	615.00	35.19387	0.04568	-9.56233	-1.25272	3.33525	-0.152
Asta 30 (76-81)	60	minimi	0.00	31.50993	0.03763	19.21967	-1.35233	-27.02127	0.079
Asta 30 (76-81)	60	minimi	307.50	31.50993	0.03763	4.82793	-1.35233	10.61324	-0.041
Asta 30 (76-81)	60	minimi	615.00	31.50993	0.03763	-10.39332	-1.35233	2.67049	-0.182
Asta 31 (76-106)	61	massimi	0.00	10.92846	0.13652	16.37748	1.5181	-4.71329	0.292
Asta 31 (76-106)	61	massimi	237.00	10.92846	0.13652	-4.23452	1.5181	9.03592	-0.028
Asta 31 (76-106)	61	massimi	474.00	10.92846	0.13652	-24.10697	1.5181	-25.11267	-0.208
Asta 31 (76-106)	61	minimi	0.00	10.27177	0.07581	15.63793	1.26552	-5.04106	0.152
Asta 31	61	minimi	237.00	10.27177	0.07581	-4.77477	1.26552	8.47199	-0.032

(76-106)									
Asta 31 (76-106)	61	minimi	474.00	10.27177	0.07581	-25.92702	1.26552	-27.3457	-0.355
Asta 32 (241-76)	62	massimi	0.00	50.70283	-0.10964	22.91951	-0.58596	-12.24511	0.004
Asta 32 (241-76)	62	massimi	315.00	50.70283	-0.10964	-3.83703	-0.58596	15.67217	0.394
Asta 32 (241-76)	62	massimi	630.00	50.70283	-0.10964	-30.24977	-0.58596	-38.99999	0.804
Asta 32 (241-76)	62	minimi	0.00	40.71231	-0.1302	22.57572	-0.64406	-14.82673	-0.016
Asta 32 (241-76)	62	minimi	315.00	40.71231	-0.1302	-5.19424	-0.64406	14.68672	0.349
Asta 32 (241-76)	62	minimi	630.00	40.71231	-0.1302	-33.30799	-0.64406	-44.96885	0.695
Asta 33 (96-81)	63	massimi	0.00	65.45524	-1.2503	21.46522	40.79255	2.92182	-0.378
Asta 33 (96-81)	63	massimi	45.50	65.45524	-1.2503	19.21297	40.79255	12.17611	0.231
Asta 33 (96-81)	63	massimi	91.00	65.45524	-1.2503	16.96072	40.79255	20.40562	1.037
Asta 33 (96-81)	63	minimi	0.00	60.69991	-1.77262	19.4266	37.44386	2.71301	-0.576
Asta 33 (96-81)	63	minimi	45.50	60.69991	-1.77262	17.2972	37.44386	11.06768	0.191
Asta 33 (96-81)	63	minimi	91.00	60.69991	-1.77262	15.1678	37.44386	18.45347	0.76
Asta 34 (86-91)	64	massimi	0.00	-5.72546	-1.03881	-43.32905	-7.59526	-51.77605	-1.412
Asta 34 (86-91)	64	massimi	204.50	-1.53535	-0.55859	19.82097	-7.59526	-51.75479	0.184
Asta 34 (86-91)	64	massimi	409.00	2.67205	-0.40693	29.6314	-7.59525	-9.42122	1.286
Asta 34 (86-91)	64	minimi	0.00	-6.71575	-1.13389	-46.00752	-8.16938	-55.97172	-1.575
Asta 34 (86-91)	64	minimi	204.50	-2.01015	-0.63834	18.38088	-8.16938	-55.36266	0.167
Asta 34 (86-91)	64	minimi	409.00	2.63689	-0.47383	27.98509	-8.16938	-10.18126	1.118
Asta 35 (86-96)	65	massimi	0.00	1.92615	-0.02298	43.01325	6.86841	-75.97447	-0.137
Asta 35 (86-96)	65	massimi	205.50	1.92615	-0.02298	32.841	6.86841	-3.79906	-0.071
Asta 35 (86-96)	65	massimi	411.00	1.92615	-0.02298	22.66875	6.86841	52.92903	0.077
Asta 35 (86-96)	65	minimi	0.00	1.36796	-0.07183	39.93056	6.34893	-82.04749	-0.219
Asta 35 (86-96)	65	minimi	205.50	1.36796	-0.07183	30.31316	6.34893	-4.10724	-0.09
Asta 35 (86-96)	65	minimi	411.00	1.36796	-0.07183	20.69575	6.34893	48.6126	-0.042
Asta 36 (111-96)	66	massimi	0.00	65.52707	0.15354	17.75497	-11.16874	-20.40243	0.055
Asta 36 (111-96)	66	massimi	191.50	65.52707	0.15354	8.27572	-11.16874	3.01861	-0.229
Asta 36 (111-96)	66	massimi	383.00	65.52707	0.15354	-1.20353	-11.16874	9.79023	-0.455
Asta 36 (111-96)	66	minimi	0.00	60.7229	0.11766	16.65525	-12.13648	-21.90578	-0.004
Asta 36 (111-96)	66	minimi	191.50	60.7229	0.11766	7.69305	-12.13648	2.91106	-0.239
Asta 36 (111-96)	66	minimi	383.00	60.7229	0.11766	-1.26915	-12.13648	9.06194	-0.534
Asta 37 (116-101)	67	massimi	0.00	65.35087	-1.30254	-22.85011	0.22651	55.89958	-1.931
Asta 37 (116-101)	67	massimi	173.00	65.35087	-1.30254	-37.35616	0.22651	-2.27967	0.325
Asta 37	67	massimi	346.00	65.35087	-1.30254	-51.86221	0.22651	-79.45356	2.762

(116-101)									
Asta 37 (116-101)	67	minimi	0.00	59.00852	-1.40868	-26.10808	0.08557	49.79876	-2.112
Asta 37 (116-101)	67	minimi	173.00	59.00852	-1.40868	-41.54833	0.08557	-2.62321	0.323
Asta 37 (116-101)	67	minimi	346.00	59.00852	-1.40868	-56.98858	0.08557	-87.85763	2.576
Asta 38 (106-111)	68	massimi	0.00	30.81178	0.0372	13.92645	-2.14007	-11.08611	0.196
Asta 38 (106-111)	68	massimi	307.50	30.81178	0.0372	-0.99033	-2.14007	8.32514	0.082
Asta 38 (106-111)	68	massimi	615.00	30.81178	0.0372	-15.38134	-2.14007	-17.17667	-0.033
Asta 38 (106-111)	68	minimi	0.00	27.06346	0.03629	13.40067	-2.30273	-11.09603	0.189
Asta 38 (106-111)	68	minimi	307.50	27.06346	0.03629	-1.2948	-2.30273	7.99478	0.077
Asta 38 (106-111)	68	minimi	615.00	27.06346	0.03629	-16.51605	-2.30273	-19.05903	-0.034
Asta 39 (121-106)	69	massimi	0.00	55.08286	-1.07252	-17.41559	-0.04492	28.0071	-1.343
Asta 39 (121-106)	69	massimi	127.00	55.08286	-1.07252	-28.06454	-0.04492	-4.24541	0.059
Asta 39 (121-106)	69	massimi	254.00	55.08286	-1.07252	-38.71349	-0.04492	-46.64946	1.611
Asta 39 (121-106)	69	minimi	0.00	49.7618	-1.22196	-19.97495	-0.06757	24.63447	-1.493
Asta 39 (121-106)	69	minimi	127.00	49.7618	-1.22196	-31.3097	-0.06757	-4.55865	0.019
Asta 39 (121-106)	69	minimi	254.00	49.7618	-1.22196	-42.64445	-0.06757	-51.51954	1.381
Asta 40 (111-141)	70	massimi	0.00	40.86934	-0.54896	-4.11407	3.28078	26.29766	-1.324
Asta 40 (111-141)	70	massimi	165.00	40.86934	-0.54896	-11.83607	3.28078	11.62803	-0.419
Asta 40 (111-141)	70	massimi	330.00	40.86934	-0.54896	-19.55807	3.28078	-14.98858	0.488
Asta 40 (111-141)	70	minimi	0.00	37.9745	-0.57602	-4.80693	2.84208	24.07045	-1.413
Asta 40 (111-141)	70	minimi	165.00	37.9745	-0.57602	-12.97444	2.84208	10.91159	-0.463
Asta 40 (111-141)	70	minimi	330.00	37.9745	-0.57602	-21.14194	2.84208	-16.51798	0.487
Asta 41 (116-121)	71	massimi	0.00	103.94001	0.54143	26.81839	-0.56618	-16.20189	2.203
Asta 41 (116-121)	71	massimi	330.00	103.94001	0.54143	-2.38386	-0.56618	23.14501	0.416

Asta 41 (116-121)	71	massimi	660.00	103.94001	0.54143	-30.05436	-0.56618	-31.93538	-1.234
Asta 41 (116-121)	71	minimi	0.00	93.88571	0.49107	25.28664	-0.60805	-16.75905	2.008
Asta 41 (116-121)	71	minimi	330.00	93.88571	0.49107	-2.63411	-0.60805	21.58769	0.387
Asta 41 (116-121)	71	minimi	660.00	93.88571	0.49107	-32.08661	-0.60805	-34.14418	-1.371
Asta 42 (126-116)	72	massimi	0.00	18.844	-0.12621	15.65447	4.1932	-14.72412	-0.569
Asta 42 (126-116)	72	massimi	330.00	18.844	-0.12621	-0.62605	4.1932	9.01218	-0.153
Asta 42 (126-116)	72	massimi	660.00	18.844	-0.12621	-16.07006	4.1932	-18.85609	0.298
Asta 42 (126-116)	72	minimi	0.00	16.71637	-0.14081	14.81795	3.80852	-15.69482	-0.631
Asta 42 (126-116)	72	minimi	330.00	16.71637	-0.14081	-0.68053	3.80852	8.6925	-0.166
Asta 42 (126-116)	72	minimi	660.00	16.71637	-0.14081	-17.01553	3.80852	-20.18633	0.264
Asta 43 (121-136)	73	massimi	0.00	16.42421	-1.45392	14.09613	-0.67141	-11.08833	-2.263
Asta 43 (121-136)	73	massimi	165.00	16.42421	-1.45392	5.92863	-0.67141	3.94193	0.152
Asta 43 (121-136)	73	massimi	330.00	16.42421	-1.45392	-2.23887	-0.67141	6.98598	2.80
Asta 43 (121-136)	73	minimi	0.00	14.4695	-1.60484	12.81185	-0.6973	-12.5785	-2.496
Asta 43 (121-136)	73	minimi	165.00	14.4695	-1.60484	5.08985	-0.6973	3.68056	0.136
Asta 43 (121-136)	73	minimi	330.00	14.4695	-1.60484	-2.63216	-0.6973	5.70816	2.535
Asta 44 (131-126)	74	massimi	0.00	20.14197	-0.10853	16.03491	-0.88789	-14.69487	-0.312
Asta 44 (131-126)	74	massimi	330.00	20.14197	-0.10853	-0.28099	-0.88789	10.45817	0.051
Asta 44 (131-126)	74	massimi	660.00	20.14197	-0.10853	-15.72499	-0.88789	-16.54939	0.441
Asta 44 (131-126)	74	minimi	0.00	18.84033	-0.1182	15.16301	-1.05408	-15.50428	-0.34
Asta 44 (131-126)	74	minimi	330.00	18.84033	-0.1182	-0.30009	-1.05408	9.86048	0.046
Asta 44 (131-126)	74	minimi	660.00	18.84033	-0.1182	-16.63509	-1.05408	-17.48488	0.404
Asta 45 (136-131)	75	massimi	0.00	15.0929	0.7498	-2.20131	1.97205	14.64076	1.186
Asta 45 (136-131)	75	massimi	165.00	15.0929	0.7498	-9.92332	1.97205	2.68059	-0.045

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Asta 45 (136-131)	75	massimi	330.00	15.0929	0.7498	-17.64532	1.97205	-20.21881	-1.157
Asta 45 (136-131)	75	minimi	0.00	13.32146	0.6736	-3.16484	1.83919	12.52813	1.066
Asta 45 (136-131)	75	minimi	165.00	13.32146	0.6736	-11.33234	1.83919	2.52531	-0.051
Asta 45 (136-131)	75	minimi	330.00	13.32146	0.6736	-19.49984	1.83919	-22.75596	-1.288
Asta 46 (156-131)	76	massimi	0.00	9.90783	0.00843	15.1433	-0.59256	-10.27391	0.246
Asta 46 (156-131)	76	massimi	244.50	9.90783	0.00843	3.04054	-0.59256	11.10489	0.241
Asta 46 (156-131)	76	massimi	489.00	9.90783	0.00843	-8.68885	-0.59256	3.74341	0.235
Asta 46 (156-131)	76	minimi	0.00	9.22313	0.0022	14.19635	-0.63679	-11.12485	0.242
Asta 46 (156-131)	76	minimi	244.50	9.22313	0.0022	2.75375	-0.63679	10.4476	0.221
Asta 46 (156-131)	76	minimi	489.00	9.22313	0.0022	-9.06221	-0.63679	3.19194	0.201
Asta 47 (136-151)	77	massimi	0.00	13.62285	-0.05828	9.72821	-0.56255	-1.85904	-0.253
Asta 47 (136-151)	77	massimi	244.50	13.62285	-0.05828	-2.09299	-0.56255	7.13081	-0.111
Asta 47 (136-151)	77	massimi	489.00	13.62285	-0.05828	-13.53559	-0.56255	-12.40076	0.045
Asta 47 (136-151)	77	minimi	0.00	12.49842	-0.06824	9.34961	-0.57633	-2.16603	-0.289
Asta 47 (136-151)	77	minimi	244.50	12.49842	-0.06824	-2.37454	-0.57633	6.70519	-0.122
Asta 47 (136-151)	77	minimi	489.00	12.49842	-0.06824	-14.4773	-0.57633	-13.47056	0.032
Asta 48 (146-141)	78	massimi	0.00	10.93321	-0.2153	-34.30848	-4.80925	-22.87735	0.07
Asta 48 (146-141)	78	massimi	165.00	5.40491	-0.88027	-3.23557	-4.80925	-75.30552	0.555
Asta 48 (146-141)	78	massimi	330.00	-0.08244	-4.47503	259.7977	-4.80926	91.32721	5.11
Asta 48 (146-141)	78	minimi	0.00	10.02674	-0.25983	-34.92481	-4.86009	-24.9559	-0.043
Asta 48 (146-141)	78	minimi	165.00	4.94738	-1.01499	-3.55667	-4.86009	-79.92593	0.546
Asta 48 (146-141)	78	minimi	330.00	-0.09448	-5.02292	243.31136	-4.8601	85.35713	4.599
Asta 49 (151-141)	79	massimi	0.00	4.07747	0.99257	-3.93369	-7.36844	19.19829	1.647
Asta 49	79	massimi	190.00	4.07747	0.99257	-12.82569	-7.36844	1.45554	-0.212

(151-141)									
Asta 49 (151-141)	79	massimi	380.00	4.07747	0.99257	-21.71769	-7.36844	-31.37831	-1.936
Asta 49 (151-141)	79	minimi	0.00	3.78621	0.90726	-4.63579	-7.89596	17.35932	1.511
Asta 49 (151-141)	79	minimi	190.00	3.78621	0.90726	-14.04079	-7.89596	1.43791	-0.238
Asta 49 (151-141)	79	minimi	380.00	3.78621	0.90726	-23.44579	-7.89596	-34.15671	-2.124
Asta 50 (156-146)	80	massimi	0.00	3.93525	0.99843	-170.91193	-8.0884	27.02995	-0.466
Asta 50 (156-146)	80	massimi	190.00	2.82339	0.30783	28.27127	-8.08841	-67.83722	-1.992
Asta 50 (156-146)	80	massimi	380.00	1.7399	-3.65306	32.86289	-8.08841	5.67384	0.629
Asta 50 (156-146)	80	minimi	0.00	3.59934	0.89543	-183.0668	-8.80152	25.32381	-0.50
Asta 50 (156-146)	80	minimi	190.00	2.568	0.25643	26.13281	-8.80152	-72.22349	-2.209
Asta 50 (156-146)	80	minimi	380.00	1.56246	-3.93767	32.14863	-8.80153	5.6336	0.578
Asta 51 (12-2)	81	massimi	0.00	-2.35009	-0.86453	22.94632	-2.83039	0.54622	-1.748
Asta 51 (12-2)	81	massimi	237.00	-2.35009	-0.86453	-9.00728	-2.83039	14.18531	0.319
Asta 51 (12-2)	81	massimi	474.00	-2.35009	-0.86453	-40.96087	-2.83039	-45.02695	2.622
Asta 51 (12-2)	81	minimi	0.00	-2.67155	-0.97154	21.72871	-3.46448	-2.33246	-1.983
Asta 51 (12-2)	81	minimi	237.00	-2.67155	-0.97154	-10.22488	-3.46448	14.17826	0.301
Asta 51 (12-2)	81	minimi	474.00	-2.67155	-0.97154	-42.17848	-3.46448	-47.91973	2.35
Asta 52 (2-222)	82	massimi	0.00	2.16814	0.78711	139.54415	-0.83621	-135.01352	2.754
Asta 52 (2-222)	82	massimi	315.00	2.16814	0.78711	13.64243	-0.83621	79.87568	0.275
Asta 52 (2-222)	82	massimi	630.00	2.16814	0.78711	-99.31838	-0.83621	-72.02243	-2.037
Asta 52 (2-222)	82	minimi	0.00	-0.39726	0.70749	119.31555	-0.86686	-161.39317	2.42
Asta 52 (2-222)	82	minimi	315.00	-0.39726	0.70749	9.99859	-0.86686	68.65625	0.192
Asta 52 (2-222)	82	minimi	630.00	-0.39726	0.70749	-112.25929	-0.86686	-75.44589	-2.204
Asta 53 (7-17)	83	massimi	0.00	-3.65026	0.3861	55.19245	-1.52947	-74.39153	0.625
Asta 53 (7-17)	83	massimi	237.00	-3.65026	0.3861	23.23886	-1.52947	12.95612	-0.29
Asta 53 (7-17)	83	massimi	474.00	-3.65026	0.3861	-8.71474	-1.52947	30.00223	-1.151
Asta 53 (7-17)	83	minimi	0.00	-4.03999	0.34992	52.83234	-1.5995	-80.14995	0.508
Asta 53 (7-17)	83	minimi	237.00	-4.03999	0.34992	20.87875	-1.5995	12.79115	-0.321
Asta 53 (7-17)	83	minimi	474.00	-4.03999	0.34992	-11.07485	-1.5995	24.57373	-1.205
Asta 54 (222-7)	84	massimi	0.00	5.06239	-0.41376	108.0231	1.6735	-67.5265	-2.024

Asta 54 (222-7)	84	massimi	315.00	5.06239	-0.41376	-13.67896	1.6735	71.71606	-0.721
Asta 54 (222-7)	84	massimi	630.00	5.06239	-0.41376	-122.99593	1.6735	-153.70392	0.583
Asta 54 (222-7)	84	minimi	0.00	2.94044	-0.43295	95.63801	1.52711	-70.26149	-2.173
Asta 54 (222-7)	84	minimi	315.00	2.94044	-0.43295	-17.87862	1.52711	61.55902	-0.809
Asta 54 (222-7)	84	minimi	630.00	2.94044	-0.43295	-143.78034	1.52711	-182.89681	0.555
Asta 55 (27-12)	85	massimi	0.00	-4.48536	-0.41564	32.95241	-0.85675	-25.87055	-1.205
Asta 55 (27-12)	85	massimi	237.00	-4.48536	-0.41564	0.99881	-0.85675	14.30605	-0.22
Asta 55 (27-12)	85	massimi	474.00	-4.48536	-0.41564	-30.95479	-0.85675	-21.19178	0.815
Asta 55 (27-12)	85	minimi	0.00	-5.02524	-0.45658	32.84971	-0.96159	-25.92614	-1.349
Asta 55 (27-12)	85	minimi	237.00	-5.02524	-0.45658	0.89611	-0.96159	14.11825	-0.267
Asta 55 (27-12)	85	minimi	474.00	-5.02524	-0.45658	-31.05748	-0.96159	-21.62297	0.765
Asta 56 (12-227)	86	massimi	0.00	-9.31117	0.80501	257.2637	-0.07614	-256.94508	3.334
Asta 56 (12-227)	86	massimi	315.00	-9.31117	0.80501	30.26651	-0.07614	145.93127	0.798
Asta 56 (12-227)	86	massimi	630.00	-9.31117	0.80501	-171.22435	-0.07614	-109.18592	-1.552
Asta 56 (12-227)	86	minimi	0.00	-18.05811	0.7092	218.13202	-0.07858	-306.9288	2.916
Asta 56 (12-227)	86	minimi	315.00	-18.05811	0.7092	23.45383	-0.07858	123.55265	0.682
Asta 56 (12-227)	86	minimi	630.00	-18.05811	0.7092	-196.73068	-0.07858	-116.2498	-1.738
Asta 57 (22-17)	87	massimi	0.00	2.08638	-0.98407	130.05374	5.84712	-48.72637	-3.03
Asta 57 (22-17)	87	massimi	307.50	2.08638	-0.98407	-17.99179	5.84712	114.27992	-0.004
Asta 57 (22-17)	87	massimi	615.00	2.08638	-0.98407	-154.58898	5.84712	-159.37589	3.119
Asta 57 (22-17)	87	minimi	0.00	1.79409	-1.01813	118.6054	5.41709	-52.00172	-3.143
Asta 57 (22-17)	87	minimi	307.50	1.79409	-1.01813	-21.90308	5.41709	105.96705	-0.012
Asta 57 (22-17)	87	minimi	615.00	1.79409	-1.01813	-173.85989	5.41709	-186.70564	3.022
Asta 58 (17-32)	88	massimi	0.00	-8.12104	0.58	38.11396	-2.09214	-34.85555	1.762
Asta 58 (17-32)	88	massimi	237.00	-8.12104	0.58	6.16036	-2.09214	15.97452	0.387
Asta 58 (17-32)	88	massimi	474.00	-8.12104	0.58	-25.79324	-2.09214	-7.29044	-0.987
Asta 58 (17-32)	88	minimi	0.00	-9.0245	0.56407	37.27963	-2.42278	-36.49055	1.687
Asta 58 (17-32)	88	minimi	237.00	-9.0245	0.56407	5.32603	-2.42278	15.63215	0.35
Asta 58 (17-32)	88	minimi	474.00	-9.0245	0.56407	-26.62757	-2.42278	-9.61018	-0.988
Asta 59 (227-17)	89	massimi	0.00	-5.64919	-0.0697	186.35701	1.9341	-102.91721	-1.417
Asta 59 (227-17)	89	massimi	315.00	-5.64919	-0.0697	-32.0745	1.9341	120.9489	-1.198
Asta 59 (227-17)	89	massimi	630.00	-5.64919	-0.0697	-226.75269	1.9341	-304.98658	-0.978
Asta 59 (227-17)	89	minimi	0.00	-13.55103	-0.07619	162.60369	1.70111	-108.55511	-1.574
Asta 59 (227-17)	89	minimi	315.00	-13.55103	-0.07619	-40.64018	1.70111	102.66625	-1.334
Asta 59 (227-17)	89	minimi	630.00	-13.55103	-0.07619	-267.63737	1.70111	-364.58825	-1.094

Asta 60 (37-22)	90	massimi	0.00	-14.61306	0.9061	12.11868	7.0803	65.26353	1.237
Asta 60 (37-22)	90	massimi	237.00	-14.61306	0.9061	-29.33366	7.0803	35.42144	-0.865
Asta 60 (37-22)	90	massimi	474.00	-14.61306	0.9061	-70.78601	7.0803	-84.97622	-2.967
Asta 60 (37-22)	90	minimi	0.00	-15.80085	0.8868	8.13457	5.15801	54.06535	1.215
Asta 60 (37-22)	90	minimi	237.00	-15.80085	0.8868	-33.31778	5.15801	33.6656	-0.933
Asta 60 (37-22)	90	minimi	474.00	-15.80085	0.8868	-74.77012	5.15801	-92.66272	-3.08
Asta 61 (42-27)	91	massimi	0.00	-5.41619	0.09829	32.88213	-0.06385	-27.08959	-0.321
Asta 61 (42-27)	91	massimi	237.00	-5.41619	0.09829	0.92853	-0.06385	12.74951	-0.54
Asta 61 (42-27)	91	massimi	474.00	-5.41619	0.09829	-31.02506	-0.06385	-22.91488	-0.759
Asta 61 (42-27)	91	minimi	0.00	-6.05061	0.09232	32.78009	-0.07443	-27.31613	-0.357
Asta 61 (42-27)	91	minimi	237.00	-6.05061	0.09232	0.82649	-0.07443	12.7342	-0.59
Asta 61 (42-27)	91	minimi	474.00	-6.05061	0.09232	-31.12711	-0.07443	-23.17203	-0.822
Asta 62 (27-232)	92	massimi	0.00	-8.19709	0.25446	251.10053	0.06079	-237.7866	1.127
Asta 62 (27-232)	92	massimi	315.00	-8.19709	0.25446	24.10334	0.06079	148.07549	0.326
Asta 62 (27-232)	92	massimi	630.00	-8.19709	0.25446	-176.67643	0.06079	-124.37549	-0.427
Asta 62 (27-232)	92	minimi	0.00	-16.69899	0.22607	212.67995	0.02824	-285.3706	0.997
Asta 62 (27-232)	92	minimi	315.00	-16.69899	0.22607	18.00176	0.02824	125.5371	0.285
Asta 62 (27-232)	92	minimi	630.00	-16.69899	0.22607	-202.89385	0.02824	-133.51958	-0.476
Asta 63 (37-32)	93	massimi	0.00	4.35619	-1.6181	193.56099	4.69056	-87.70446	-5.074
Asta 63 (37-32)	93	massimi	307.50	4.35619	-1.6181	-23.56149	4.69056	153.39118	-0.098
Asta 63 (37-32)	93	massimi	615.00	4.35619	-1.6181	-213.60449	4.69056	-232.60764	5.197
Asta 63 (37-32)	93	minimi	0.00	3.29465	-1.72285	166.4815	4.30567	-101.11041	-5.399
Asta 63 (37-32)	93	minimi	307.50	3.29465	-1.72285	-28.0315	4.30567	132.03505	-0.101
Asta 63 (37-32)	93	minimi	615.00	3.29465	-1.72285	-249.624	4.30567	-273.50416	4.877
Asta 64 (32-47)	94	massimi	0.00	-10.04573	1.30448	32.94798	-0.35455	-26.21103	3.453
Asta 64 (32-47)	94	massimi	237.00	-10.04573	1.30448	0.99439	-0.35455	14.00844	0.362
Asta 64 (32-47)	94	massimi	474.00	-10.04573	1.30448	-30.95921	-0.35455	-21.50212	-2.546
Asta 64 (32-47)	94	minimi	0.00	-11.186	1.21063	32.94704	-0.39449	-26.39691	3.193
Asta 64 (32-47)	94	minimi	237.00	-11.186	1.21063	0.99344	-0.39449	13.82479	0.324
Asta 64 (32-47)	94	minimi	474.00	-11.186	1.21063	-30.96016	-0.39449	-21.68352	-2.73
Asta 65 (232-32)	95	massimi	0.00	-3.0933	0.08559	188.01223	0.5326	-115.53642	-0.419
Asta 65 (232-32)	95	massimi	315.00	-3.0933	0.08559	-30.62007	0.5326	111.64501	-0.655
Asta 65 (232-32)	95	massimi	630.00	-3.0933	0.08559	-225.29826	0.5326	-308.44287	-0.89
Asta 65 (232-32)	95	minimi	0.00	-10.67649	0.0749	164.05812	0.44688	-123.07292	-0.458
Asta 65 (232-32)	95	minimi	315.00	-10.67649	0.0749	-38.98496	0.44688	94.6285	-0.727

Asta 65 (232-32)	95	minimi	630.00	-10.67649	0.0749	-265.98215	0.44688	-368.6782	-0.997
Asta 66 (52-37)	96	massimi	0.00	-31.48304	1.11737	24.62005	-3.11494	63.59057	1.056
Asta 66 (52-37)	96	massimi	237.00	-31.48304	1.11737	-16.8323	-3.11494	71.18396	-1.438
Asta 66 (52-37)	96	massimi	474.00	-31.48304	1.11737	-58.28465	-3.11494	-19.46473	-3.888
Asta 66 (52-37)	96	minimi	0.00	-34.09015	1.03362	23.93013	-3.20435	56.10931	1.011
Asta 66 (52-37)	96	minimi	237.00	-34.09015	1.03362	-17.52221	-3.20435	65.33779	-1.592
Asta 66 (52-37)	96	minimi	474.00	-34.09015	1.03362	-58.97456	-3.20435	-23.6758	-4.24
Asta 67 (72-42)	97	massimi	0.00	-6.0276	0.47111	32.63073	0.76536	-25.89219	0.699
Asta 67 (72-42)	97	massimi	237.00	-6.0276	0.47111	0.67714	0.76536	13.53292	-0.36
Asta 67 (72-42)	97	massimi	474.00	-6.0276	0.47111	-31.27646	0.76536	-22.72727	-1.419
Asta 67 (72-42)	97	minimi	0.00	-6.70628	0.44688	32.55802	0.68549	-25.9369	0.692
Asta 67 (72-42)	97	minimi	237.00	-6.70628	0.44688	0.60442	0.68549	13.40529	-0.424
Asta 67 (72-42)	97	minimi	474.00	-6.70628	0.44688	-31.34918	0.68549	-23.02725	-1.541
Asta 68 (42-237)	98	massimi	0.00	-10.17484	-0.17471	250.65582	-0.11889	-236.79017	-1.10
Asta 68 (42-237)	98	massimi	315.00	-10.17484	-0.17471	23.65863	-0.11889	147.82956	-0.55
Asta 68 (42-237)	98	massimi	630.00	-10.17484	-0.17471	-177.05983	-0.11889	-125.79453	0.01
Asta 68 (42-237)	98	minimi	0.00	-18.84189	-0.18997	212.29654	-0.12138	-284.21569	-1.187
Asta 68 (42-237)	98	minimi	315.00	-18.84189	-0.18997	17.61836	-0.12138	125.3258	-0.588
Asta 68 (42-237)	98	minimi	630.00	-18.84189	-0.18997	-203.33856	-0.12138	-135.16633	0.00
Asta 69 (52-47)	99	massimi	0.00	-2.11632	-2.81002	186.13258	0.48777	-70.516	-9.197
Asta 69 (52-47)	99	massimi	307.50	-2.11632	-2.81002	-30.33327	0.48777	149.80143	-0.556
Asta 69 (52-47)	99	massimi	615.00	-2.11632	-2.81002	-220.37627	0.48777	-257.06564	8.76
Asta 69 (52-47)	99	minimi	0.00	-3.75626	-3.04473	159.70972	0.44787	-81.85779	-9.965
Asta 69 (52-47)	99	minimi	307.50	-3.75626	-3.04473	-35.45992	0.44787	128.40028	-0.603
Asta 69 (52-47)	99	minimi	615.00	-3.75626	-3.04473	-257.05241	0.44787	-299.93627	8.085
Asta 70 (47-77)	100	massimi	0.00	-10.52587	2.19345	32.35424	1.09768	-23.98027	5.471
Asta 70 (47-77)	100	massimi	237.00	-10.52587	2.19345	0.40064	1.09768	14.64418	0.272
Asta 70 (47-77)	100	massimi	474.00	-10.52587	2.19345	-31.55296	1.09768	-22.46139	-4.542
Asta 70 (47-77)	100	minimi	0.00	-11.70688	2.01974	32.27404	1.00294	-24.38423	5.031
Asta 70 (47-77)	100	minimi	237.00	-11.70688	2.01974	0.32044	1.00294	14.4303	0.244
Asta 70 (47-77)	100	minimi	474.00	-11.70688	2.01974	-31.63316	1.00294	-22.48519	-4.926
Asta 71 (237-47)	101	massimi	0.00	-5.70399	-0.03139	188.42669	-0.23008	-117.84146	-0.169
Asta 71 (237-47)	101	massimi	315.00	-5.70399	-0.03139	-30.27342	-0.23008	110.32271	-0.063
Asta 71 (237-47)	101	massimi	630.00	-5.70399	-0.03139	-224.95161	-0.23008	-308.564	0.044
Asta 71 (237-47)	101	minimi	0.00	-13.51965	-0.03402	164.40477	-0.24189	-125.70081	-0.17

Asta 71 (237-47)	101	minimi	315.00	-13.51965	-0.03402	-38.5705	-0.24189	93.41541	-0.07
Asta 71 (237-47)	101	minimi	630.00	-13.51965	-0.03402	-265.56769	-0.24189	-368.69493	0.029
Asta 72 (67-52)	102	massimi	0.00	-24.05331	3.00359	-17.2876	2.49634	91.08471	0.263
Asta 72 (67-52)	102	massimi	116.50	-24.05331	3.00359	-32.64959	2.49634	61.43476	-2.967
Asta 72 (67-52)	102	massimi	233.00	-24.05331	3.00359	-48.01158	2.49634	13.8881	-6.193
Asta 72 (67-52)	102	minimi	0.00	-26.54439	2.76923	-17.7696	2.27026	85.06734	0.259
Asta 72 (67-52)	102	minimi	116.50	-26.54439	2.76923	-33.13159	2.27026	55.97892	-3.236
Asta 72 (67-52)	102	minimi	233.00	-26.54439	2.76923	-48.49358	2.27026	8.99379	-6.735
Asta 73 (82-67)	103	massimi	0.00	-24.05331	3.00359	14.5157	2.49634	95.58647	7.502
Asta 73 (82-67)	103	massimi	120.50	-24.05331	3.00359	-1.38595	2.49634	102.91634	3.882
Asta 73 (82-67)	103	massimi	241.00	-24.05331	3.00359	-17.2876	2.49634	91.08471	0.263
Asta 73 (82-67)	103	minimi	0.00	-26.54439	2.76923	14.0337	2.27026	88.40748	6.933
Asta 73 (82-67)	103	minimi	120.50	-26.54439	2.76923	-1.86795	2.27026	96.31816	3.596
Asta 73 (82-67)	103	minimi	241.00	-26.54439	2.76923	-17.7696	2.27026	85.06734	0.259
Asta 74 (102-72)	104	massimi	0.00	-6.3617	1.80516	38.91956	0.50925	-38.9457	5.708
Asta 74 (102-72)	104	massimi	237.00	-6.3617	1.80516	6.96596	0.50925	12.9904	1.43
Asta 74 (102-72)	104	massimi	474.00	-6.3617	1.80516	-24.98764	0.50925	-8.55417	-2.524
Asta 74 (102-72)	104	minimi	0.00	-7.03092	1.62195	37.89076	-0.027	-41.57283	5.164
Asta 74 (102-72)	104	minimi	237.00	-7.03092	1.62195	5.93716	-0.027	12.80151	1.32
Asta 74 (102-72)	104	minimi	474.00	-7.03092	1.62195	-26.01643	-0.027	-10.80354	-2.848
Asta 75 (72-242)	105	massimi	0.00	-15.05583	-0.55691	254.40787	-0.03384	-251.0538	-2.871
Asta 75 (72-242)	105	massimi	315.00	-15.05583	-0.55691	27.41068	-0.03384	143.65102	-1.116
Asta 75 (72-242)	105	massimi	630.00	-15.05583	-0.55691	-173.71962	-0.03384	-119.01481	0.737
Asta 75 (72-242)	105	minimi	0.00	-23.88102	-0.63094	215.63676	-0.06951	-300.21321	-3.238
Asta 75 (72-242)	105	minimi	315.00	-23.88102	-0.63094	20.95857	-0.06951	121.58385	-1.251
Asta 75 (72-242)	105	minimi	630.00	-23.88102	-0.63094	-199.58651	-0.06951	-127.52591	0.638
Asta 76 (82-77)	106	massimi	0.00	-13.11221	-2.88099	186.89868	-5.23143	-73.36225	-8.918
Asta 76 (82-77)	106	massimi	307.50	-13.11221	-2.88099	-29.76147	-5.23143	148.6309	-0.059
Asta 76 (82-77)	106	massimi	615.00	-13.11221	-2.88099	-219.80447	-5.23143	-256.39531	9.588
Asta 76 (82-77)	106	minimi	0.00	-15.63043	-3.13972	160.28152	-5.69114	-85.38407	-9.721
Asta 76 (82-77)	106	minimi	307.50	-15.63043	-3.13972	-34.69382	-5.69114	127.31232	-0.067
Asta 76 (82-77)	106	minimi	615.00	-15.63043	-3.13972	-256.28631	-5.69114	-298.75105	8.80
Asta 77 (77-107)	107	massimi	0.00	-10.67784	1.3561	24.10239	1.77577	-1.92658	3.768
Asta 77 (77-107)	107	massimi	237.00	-10.67784	1.3561	-7.8512	1.77577	14.41104	0.554
Asta 77 (77-107)	107	massimi	474.00	-10.67784	1.3561	-39.8048	1.77577	-42.06133	-2.386

Asta 77 (77-107)	107	minimi	0.00	-11.86396	1.21774	22.85519	1.64047	-4.84662	3.386
Asta 77 (77-107)	107	minimi	237.00	-11.86396	1.21774	-9.0984	1.64047	14.37521	0.50
Asta 77 (77-107)	107	minimi	474.00	-11.86396	1.21774	-41.052	1.64047	-45.05302	-2.66
Asta 78 (242-77)	108	massimi	0.00	-15.03039	-0.0017	190.23248	-1.05884	-117.90336	0.415
Asta 78 (242-77)	108	massimi	315.00	-15.03039	-0.0017	-28.57206	-1.05884	116.12956	0.421
Asta 78 (242-77)	108	massimi	630.00	-15.03039	-0.0017	-223.25025	-1.05884	-297.90733	0.426
Asta 78 (242-77)	108	minimi	0.00	-23.44379	-0.00895	166.10613	-1.16918	-125.58217	0.344
Asta 78 (242-77)	108	minimi	315.00	-23.44379	-0.00895	-36.76471	-1.16918	98.71281	0.372
Asta 78 (242-77)	108	minimi	630.00	-23.44379	-0.00895	-263.7619	-1.16918	-357.19986	0.40
Asta 79 (97-82)	109	massimi	0.00	-21.89642	-0.70624	-8.93138	9.00784	123.1093	-2.275
Asta 79 (97-82)	109	massimi	45.50	-21.89642	-0.70624	-14.71434	9.00784	117.7299	-1.953
Asta 79 (97-82)	109	massimi	91.00	-21.89642	-0.70624	-20.49729	9.00784	109.71926	-1.632
Asta 79 (97-82)	109	minimi	0.00	-24.20318	-0.75684	-9.61898	8.6193	114.72519	-2.541
Asta 79 (97-82)	109	minimi	45.50	-24.20318	-0.75684	-15.40193	8.6193	109.03293	-2.197
Asta 79 (97-82)	109	minimi	91.00	-24.20318	-0.75684	-21.18488	8.6193	100.70943	-1.853
Asta 80 (112-97)	110	massimi	0.00	-21.89642	-0.70624	42.03	9.00784	59.72545	-4.98
Asta 80 (112-97)	110	massimi	191.50	-21.89642	-0.70624	16.54931	9.00784	115.81514	-3.627
Asta 80 (112-97)	110	massimi	383.00	-21.89642	-0.70624	-8.93138	9.00784	123.1093	-2.275
Asta 80 (112-97)	110	minimi	0.00	-24.20318	-0.75684	41.3424	8.6193	53.97484	-5.44
Asta 80 (112-97)	110	minimi	191.50	-24.20318	-0.75684	15.86171	8.6193	108.74777	-3.991
Asta 80 (112-97)	110	minimi	383.00	-24.20318	-0.75684	-9.61898	8.6193	114.72519	-2.541
Asta 81 (102-117)	111	massimi	0.00	-35.62355	-4.23688	218.59004	15.95012	-303.64286	-6.06
Asta 81 (102-117)	111	massimi	173.00	-35.62355	-4.23688	137.42325	15.95012	-25.58232	1.321
Asta 81 (102-117)	111	massimi	346.00	-35.62355	-4.23688	56.25646	15.95012	139.1839	9.382
Asta 81 (102-117)	111	minimi	0.00	-38.68186	-4.65945	196.99135	14.04778	-336.30053	-6.74
Asta 81 (102-117)	111	minimi	173.00	-38.68186	-4.65945	124.46591	14.04778	-28.34904	1.27
Asta 81 (102-117)	111	minimi	346.00	-38.68186	-4.65945	51.94047	14.04778	127.00921	8.60
Asta 82 (112-107)	112	massimi	0.00	-18.29806	-5.30999	171.57781	-13.75562	-83.52213	-17.72
Asta 82 (112-107)	112	massimi	307.50	-18.29806	-5.30999	-15.47532	-13.75562	139.65064	-1.392
Asta 82 (112-107)	112	massimi	615.00	-18.29806	-5.30999	-178.49275	-13.75562	-178.69535	16.365
Asta 82	112	minimi	0.00	-20.90028	-5.82106	147.54211	-14.9594	-96.46352	-19.434

(112-107)									
Asta 82 (112-107)	112	minimi	307.50	-20.90028	-5.82106	-18.00763	-14.9594	119.53056	-1.534
Asta 82 (112-107)	112	minimi	615.00	-20.90028	-5.82106	-207.59306	-14.9594	-207.21042	14.936
Asta 83 (122-107)	113	massimi	0.00	-29.74806	6.08028	-12.84645	-8.74239	-21.83832	1.727
Asta 83 (122-107)	113	massimi	127.00	-29.74806	6.08028	-88.76336	-8.74239	-86.36055	-5.476
Asta 83 (122-107)	113	massimi	254.00	-29.74806	6.08028	-164.68026	-8.74239	-247.29725	-12.476
Asta 83 (122-107)	113	minimi	0.00	-32.16146	5.51185	-13.7469	-9.8382	-24.49149	1.524
Asta 83 (122-107)	113	minimi	127.00	-32.16146	5.51185	-100.2937	-9.8382	-96.90727	-5.995
Asta 83 (122-107)	113	minimi	254.00	-32.16146	5.51185	-186.84051	-9.8382	-279.23749	-13.717
Asta 84 (142-112)	114	massimi	0.00	-31.73282	13.60051	120.84849	7.99547	-154.58632	19.932
Asta 84 (142-112)	114	massimi	165.00	-31.73282	13.60051	102.79867	7.99547	17.24061	-2.34
Asta 84 (142-112)	114	massimi	330.00	-31.73282	13.60051	84.74886	7.99547	171.96732	-22.715
Asta 84 (142-112)	114	minimi	0.00	-34.38298	12.34839	112.73294	6.86568	-167.2683	18.035
Asta 84 (142-112)	114	minimi	165.00	-34.38298	12.34839	94.68312	6.86568	16.53193	-2.509
Asta 84 (142-112)	114	minimi	330.00	-34.38298	12.34839	76.6333	6.86568	157.86797	-24.95
Asta 85 (117-122)	115	massimi	0.00	-60.47484	-3.32321	134.92004	-6.1048	0.47778	-8.275
Asta 85 (117-122)	115	massimi	330.00	-60.47484	-3.32321	-20.73391	-6.1048	183.95764	2.959
Asta 85 (117-122)	115	massimi	660.00	-60.47484	-3.32321	-161.94521	-6.1048	-136.36599	15.09
Asta 85 (117-122)	115	minimi	0.00	-66.31221	-3.676	120.4774	-6.86238	-1.08206	-9.172
Asta 85 (117-122)	115	minimi	330.00	-66.31221	-3.676	-22.77477	-6.86238	165.05455	2.692
Asta 85 (117-122)	115	minimi	660.00	-66.31221	-3.676	-180.46957	-6.86238	-151.39552	13.658
Asta 86 (117-127)	116	massimi	0.00	0.69955	4.9641	200.38802	27.35331	-84.98197	18.87
Asta 86 (117-127)	116	massimi	330.00	0.69955	4.9641	4.98761	27.35331	243.85531	2.488
Asta 86 (117-127)	116	massimi	660.00	0.69955	4.9641	-167.53809	27.35331	-55.45642	-12.617

Asta 86 (117-127)	116	minimi	0.00	0.15971	4.51212	176.48523	24.35464	-95.01448	17.163
Asta 86 (117-127)	116	minimi	330.00	0.15971	4.51212	4.47357	24.35464	213.60005	2.273
Asta 86 (117-127)	116	minimi	660.00	0.15971	4.51212	-190.4128	24.35464	-62.09626	-13.893
Asta 87 (122-137)	117	massimi	0.00	-13.85295	9.03274	103.32042	-12.69342	-31.10054	14.223
Asta 87 (122-137)	117	massimi	165.00	-13.85295	9.03274	15.18815	-12.69342	62.40221	-0.631
Asta 87 (122-137)	117	massimi	330.00	-13.85295	9.03274	-62.35853	-12.69342	14.75352	-14.167
Asta 87 (122-137)	117	minimi	0.00	-15.58494	8.20394	89.62627	-14.21611	-35.36736	12.906
Asta 87 (122-137)	117	minimi	165.00	-15.58494	8.20394	13.63387	-14.21611	54.08907	-0.681
Asta 87 (122-137)	117	minimi	330.00	-15.58494	8.20394	-72.94413	-14.21611	13.89123	-15.585
Asta 88 (127-132)	118	massimi	0.00	-13.9356	-2.91096	61.66404	-1.49981	-18.13232	-12.27
Asta 88 (127-132)	118	massimi	330.00	-13.9356	-2.91096	16.54067	-1.49981	110.90545	-2.664
Asta 88 (127-132)	118	massimi	660.00	-13.9356	-2.91096	-28.58271	-1.49981	91.03608	7.634
Asta 88 (127-132)	118	minimi	0.00	-15.05834	-3.20323	60.21667	-1.53285	-18.51772	-13.508
Asta 88 (127-132)	118	minimi	330.00	-15.05834	-3.20323	15.09329	-1.53285	105.74371	-2.937
Asta 88 (127-132)	118	minimi	660.00	-15.05834	-3.20323	-30.03008	-1.53285	81.098	6.942
Asta 89 (137-132)	119	massimi	0.00	-7.88396	4.8331	72.10582	14.68284	22.22822	2.064
Asta 89 (137-132)	119	massimi	165.00	-7.88396	4.8331	-19.55279	14.68284	63.56937	-5.339
Asta 89 (137-132)	119	massimi	330.00	-7.88396	4.8331	-101.95957	14.68284	-44.36829	-12.66
Asta 89 (137-132)	119	minimi	0.00	-9.0873	4.43718	62.85399	13.69546	20.15592	1.983
Asta 89 (137-132)	119	minimi	165.00	-9.0873	4.43718	-21.99534	13.69546	55.87941	-5.91
Asta 89 (137-132)	119	minimi	330.00	-9.0873	4.43718	-116.0965	13.69546	-50.3564	-13.885
Asta 90 (132-157)	120	massimi	0.00	-8.49398	-2.44179	-28.99572	0.20185	136.10095	-6.274
Asta 90 (132-157)	120	massimi	244.50	-8.49398	-2.44179	-52.35769	0.20185	25.74612	-0.255
Asta 90 (132-157)	120	massimi	489.00	-8.49398	-2.44179	-75.71967	0.20185	-132.68908	6.37

157)									
Asta 90 (132-157)	120	minimi	0.00	-9.1486	-2.70946	-33.12384	-0.2989	123.34004	-6.88
Asta 90 (132-157)	120	minimi	244.50	-9.1486	-2.70946	-57.14596	-0.2989	23.8855	-0.304
Asta 90 (132-157)	120	minimi	489.00	-9.1486	-2.70946	-81.16809	-0.2989	-143.34281	5.666
Asta 91 (137-152)	121	massimi	0.00	-3.42569	-4.17313	79.43603	-4.10373	-29.90217	-15.47
Asta 91 (137-152)	121	massimi	244.50	-3.42569	-4.17313	-1.28453	-4.10373	62.41729	-5.266
Asta 91 (137-152)	121	massimi	489.00	-3.42569	-4.17313	-74.51933	-4.10373	-36.18352	5.343
Asta 91 (137-152)	121	minimi	0.00	-3.81274	-4.54569	71.95027	-4.32432	-32.18633	-16.885
Asta 91 (137-152)	121	minimi	244.50	-3.81274	-4.54569	-2.05065	-4.32432	56.4867	-5.771
Asta 91 (137-152)	121	minimi	489.00	-3.81274	-4.54569	-83.53732	-4.32432	-42.214	4.937
Asta 92 (142-147)	122	massimi	0.00	-4.79729	-2.19081	8.98154	-5.77042	-27.39347	-8.244
Asta 92 (142-147)	122	massimi	165.00	-4.79729	-2.19081	-6.98381	-5.77042	-25.91002	-4.629
Asta 92 (142-147)	122	massimi	330.00	-4.79729	-2.19081	-22.74957	-5.77042	-50.44006	-0.901
Asta 92 (142-147)	122	minimi	0.00	-5.51457	-2.50502	8.78194	-6.74603	-30.14472	-9.168
Asta 92 (142-147)	122	minimi	165.00	-5.51457	-2.50502	-7.22971	-6.74603	-28.69947	-5.035
Asta 92 (142-147)	122	minimi	330.00	-5.51457	-2.50502	-23.44096	-6.74603	-54.00277	-1.014
Asta 93 (152-142)	123	massimi	0.00	7.8835	-1.46014	41.71047	-15.48683	10.98218	5.062
Asta 93 (152-142)	123	massimi	190.00	7.8835	-1.46014	-20.44295	-15.48683	28.96012	8.128
Asta 93 (152-142)	123	massimi	380.00	7.8835	-1.46014	-77.18332	-15.48683	-66.70103	11.194
Asta 93 (152-142)	123	minimi	0.00	7.21126	-1.61379	36.29743	-16.67169	9.70545	4.667
Asta 93 (152-142)	123	minimi	190.00	7.21126	-1.61379	-21.4424	-16.67169	26.04393	7.441
Asta 93 (152-142)	123	minimi	380.00	7.21126	-1.61379	-84.59528	-16.67169	-71.77568	10.216
Asta 94 (157-147)	124	massimi	0.00	1.11267	1.69201	44.60419	-12.7627	-96.12132	6.949
Asta 94 (157-147)	124	massimi	190.00	1.11267	1.69201	25.93669	-12.7627	-33.56385	3.735
Asta 94	124	massimi	380.00	1.11267	1.69201	7.26919	-12.7627	-5.3106	0.694

(157-147)									
Asta 94 (157-147)	124	minimi	0.00	0.95605	1.44435	42.00224	-13.39314	-103.87	6.183
Asta 94 (157-147)	124	minimi	190.00	0.95605	1.44435	23.84773	-13.39314	-36.85618	3.439
Asta 94 (157-147)	124	minimi	380.00	0.95605	1.44435	5.69323	-13.39314	-5.49993	0.52
Asta 95 (2-1)	125	massimi	0.00	-524.75317	44.32161	17.10052	0.84649	-22.4342	81.818
Asta 95 (2-1)	125	massimi	130.00	-532.35817	44.32161	17.10052	0.84649	-1.71187	24.20
Asta 95 (2-1)	125	massimi	260.00	-539.96317	44.32161	17.10052	0.84649	20.5188	-29.479
Asta 95 (2-1)	125	minimi	0.00	-557.65344	37.04175	15.93001	0.6567	-23.94254	66.83
Asta 95 (2-1)	125	minimi	130.00	-565.25844	37.04175	15.93001	0.6567	-1.72519	18.675
Asta 95 (2-1)	125	minimi	260.00	-572.86344	37.04175	15.93001	0.6567	18.98382	-33.418
Asta 96 (7-6)	126	massimi	0.00	-558.73894	-40.83354	29.09217	2.05464	-37.75149	-67.916
Asta 96 (7-6)	126	massimi	130.00	-566.34394	-40.83354	29.09217	2.05464	-2.79129	-14.832
Asta 96 (7-6)	126	massimi	260.00	-573.94894	-40.83354	29.09217	2.05464	34.91079	43.478
Asta 96 (7-6)	126	minimi	0.00	-595.23026	-48.72491	26.89246	1.88269	-40.72884	-83.207
Asta 96 (7-6)	126	minimi	130.00	-602.83526	-48.72491	26.89246	1.88269	-2.90903	-19.864
Asta 96 (7-6)	126	minimi	260.00	-610.44026	-48.72491	26.89246	1.88269	32.16891	38.251
Asta 97 (12-11)	127	massimi	0.00	-694.04002	74.7172	7.99432	1.72649	-10.3417	154.345
Asta 97 (12-11)	127	massimi	130.00	-701.64502	74.7172	7.99432	1.72649	-1.07915	57.213
Asta 97 (12-11)	127	massimi	260.00	-709.25002	74.7172	7.99432	1.72649	9.16671	-34.092
Asta 97 (12-11)	127	minimi	0.00	-746.9468	60.72616	7.12503	1.49124	-11.61851	123.796
Asta 97 (12-11)	127	minimi	130.00	-754.5518	60.72616	7.12503	1.49124	-1.2259	44.852
Asta 97 (12-11)	127	minimi	260.00	-762.15679	60.72616	7.12503	1.49124	8.18339	-39.919
Asta 98 (17-16)	128	massimi	0.00	-906.23956	-36.93377	26.5712	3.06582	-34.31878	-54.457
Asta 98 (17-16)	128	massimi	130.00	-913.84456	-36.93377	26.5712	3.06582	-3.27144	-6.443
Asta 98 (17-16)	128	massimi	260.00	-921.44956	-36.93377	26.5712	3.06582	30.87081	50.217
Asta 98 (17-16)	128	minimi	0.00	-982.95723	-47.8079	23.88257	2.79345	-38.21431	-74.084
Asta 98 (17-16)	128	minimi	130.00	-990.56223	-47.8079	23.88257	2.79345	-3.67175	-11.934
Asta 98 (17-16)	128	minimi	260.00	-998.16723	-47.8079	23.88257	2.79345	27.7759	41.571
Asta 99 (22-21)	129	massimi	0.00	-278.88776	-16.42717	34.88236	0.85252	-49.51665	-26.00
Asta 99 (22-21)	129	massimi	130.00	-282.69026	-16.42717	34.88236	0.85252	-7.88828	-4.645
Asta 99 (22-21)	129	massimi	260.00	-286.49276	-16.42717	34.88236	0.85252	36.71254	18.376
Asta 99 (22-21)	129	minimi	0.00	-300.3363	-18.21536	32.02182	0.78027	-53.98159	-28.984
Asta 99 (22-21)	129	minimi	130.00	-304.1388	-18.21536	32.02182	0.78027	-8.63452	-5.304
Asta 99	129	minimi	260.00	-307.9413	-18.21536	32.02182	0.78027	33.74009	16.71

(22-21)									
Asta 100 (27-26)	130	massimi	0.00	-712.8716	68.83182	-0.55721	0.89013	0.59121	148.671
Asta 100 (27-26)	130	massimi	130.00	-720.4766	68.83182	-0.55721	0.89013	-0.19853	59.19
Asta 100 (27-26)	130	massimi	260.00	-728.0816	68.83182	-0.55721	0.89013	-0.9229	-25.569
Asta 100 (27-26)	130	minimi	0.00	-768.29753	55.53629	-0.62132	0.80954	0.52584	118.825
Asta 100 (27-26)	130	minimi	130.00	-775.90253	55.53629	-0.62132	0.80954	-0.21651	46.628
Asta 100 (27-26)	130	minimi	260.00	-783.50753	55.53629	-0.62132	0.80954	-1.02423	-30.291
Asta 101 (32-31)	131	massimi	0.00	-1036.6145	-19.71791	10.03682	1.96447	-12.94936	-13.157
Asta 101 (32-31)	131	massimi	130.00	-1044.2195	-19.71791	10.03682	1.96447	-1.21768	12.476
Asta 101 (32-31)	131	massimi	260.00	-1051.8245	-19.71791	10.03682	1.96447	11.67361	46.178
Asta 101 (32-31)	131	minimi	0.00	-1133.95677	-27.45028	9.02437	1.79532	-14.42213	-25.193
Asta 101 (32-31)	131	minimi	130.00	-1141.56177	-27.45028	9.02437	1.79532	-1.37426	10.492
Asta 101 (32-31)	131	minimi	260.00	-1149.16677	-27.45028	9.02437	1.79532	10.514	38.11
Asta 102 (37-36)	132	massimi	0.00	-365.57329	-22.64509	34.80282	0.50835	-46.45083	-39.351
Asta 102 (37-36)	132	massimi	130.00	-369.37579	-22.64509	34.80282	0.50835	-4.89641	-9.912
Asta 102 (37-36)	132	massimi	260.00	-373.17829	-22.64509	34.80282	0.50835	39.90136	22.222
Asta 102 (37-36)	132	minimi	0.00	-397.04572	-26.3449	31.96493	0.46337	-50.58598	-46.274
Asta 102 (37-36)	132	minimi	130.00	-400.84822	-26.3449	31.96493	0.46337	-5.34231	-12.026
Asta 102 (37-36)	132	minimi	260.00	-404.65072	-26.3449	31.96493	0.46337	36.658	19.526
Asta 103 (42-41)	133	massimi	0.00	-712.45608	69.75219	-1.05414	-0.68848	1.29929	151.24
Asta 103 (42-41)	133	massimi	130.00	-720.06108	69.75219	-1.05414	-0.68848	-0.24595	60.562
Asta 103 (42-41)	133	massimi	260.00	-727.66608	69.75219	-1.05414	-0.68848	-1.61633	-25.438
Asta 103 (42-41)	133	minimi	0.00	-767.82332	56.40912	-1.21095	-0.7409	1.12444	121.226
Asta 103 (42-41)	133	minimi	130.00	-775.42832	56.40912	-1.21095	-0.7409	-0.27495	47.894
Asta 103 (42-41)	133	minimi	260.00	-783.03332	56.40912	-1.21095	-0.7409	-1.84919	-30.116
Asta 104 (47-46)	134	massimi	0.00	-1055.30094	-10.55357	3.1014	0.97619	-4.5872	2.901
Asta 104 (47-46)	134	massimi	130.00	-1062.90594	-10.55357	3.1014	0.97619	-0.64642	16.621
Asta 104 (47-46)	134	massimi	260.00	-1070.51094	-10.55357	3.1014	0.97619	3.32065	37.843
Asta 104 (47-46)	134	minimi	0.00	-1155.32903	-17.50998	3.03137	0.91333	-4.74299	-7.683
Asta 104 (47-46)	134	minimi	130.00	-1162.93403	-17.50998	3.03137	0.91333	-0.71117	15.08
Asta 104 (47-46)	134	minimi	260.00	-1170.53903	-17.50998	3.03137	0.91333	3.29436	30.341
Asta 105 (52-51)	135	massimi	0.00	-418.74885	-26.16189	14.64528	-0.20324	-22.0073	-39.107
Asta 105 (52-51)	135	massimi	130.00	-422.55135	-26.16189	14.64528	-0.20324	-3.94296	-5.097
Asta 105 (52-51)	135	massimi	260.00	-426.35385	-26.16189	14.64528	-0.20324	14.81312	32.554
Asta 105 (52-51)	135	minimi	0.00	-454.72419	-30.35866	13.89565	-0.20466	-23.26461	-46.378
Asta 105	135	minimi	130.00	-458.52669	-30.35866	13.89565	-0.20466	-4.22574	-6.912

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Asta 105 (52-51)	135	minimi	260.00	-462.3292	-30.35866	13.89565	-0.20466	14.12139	28.914
Asta 106 (57-56)	136	massimi	0.00	-103.15339	-11.68394	0.09751	-0.32849	-1.85625	-3.724
Asta 106 (57-56)	136	massimi	130.00	-105.79401	-11.68394	0.09751	-0.32849	-1.73054	12.358
Asta 106 (57-56)	136	massimi	260.00	-108.43464	-11.68394	0.09751	-0.32849	-1.60482	28.745
Asta 106 (57-56)	136	minimi	0.00	-110.24231	-12.60571	0.0967	-0.35102	-1.97405	-4.03
Asta 106 (57-56)	136	minimi	130.00	-112.88294	-12.60571	0.0967	-0.35102	-1.84728	11.465
Asta 106 (57-56)	136	minimi	260.00	-115.52356	-12.60571	0.0967	-0.35102	-1.72051	26.654
Asta 107 (62-61)	137	massimi	0.00	-42.46216	-5.83068	0.44753	-0.10252	-1.24298	-6.182
Asta 107 (62-61)	137	massimi	130.00	-45.10279	-5.83068	0.44753	-0.10252	-0.69853	1.547
Asta 107 (62-61)	137	massimi	260.00	-47.74341	-5.83068	0.44753	-0.10252	-0.15347	9.697
Asta 107 (62-61)	137	minimi	0.00	-45.2323	-6.26926	0.41881	-0.10998	-1.31705	-6.603
Asta 107 (62-61)	137	minimi	130.00	-47.87292	-6.26926	0.41881	-0.10998	-0.73526	1.398
Asta 107 (62-61)	137	minimi	260.00	-50.51355	-6.26926	0.41881	-0.10998	-0.15408	8.978
Asta 108 (72-71)	138	massimi	0.00	-702.57006	78.26406	-4.58686	-1.56113	7.33283	163.798
Asta 108 (72-71)	138	massimi	130.00	-710.17506	78.26406	-4.58686	-1.56113	0.45317	62.055
Asta 108 (72-71)	138	massimi	260.00	-717.78006	78.26406	-4.58686	-1.56113	-5.60227	-34.106
Asta 108 (72-71)	138	minimi	0.00	-756.28017	64.25551	-5.29205	-1.79806	6.32357	132.958
Asta 108 (72-71)	138	minimi	130.00	-763.88517	64.25551	-5.29205	-1.79806	0.36065	49.426
Asta 108 (72-71)	138	minimi	260.00	-771.49017	64.25551	-5.29205	-1.79806	-6.42649	-39.689
Asta 109 (77-76)	139	massimi	0.00	-1029.4701	-5.1434	-5.36596	0.18899	8.92566	6.893
Asta 109 (77-76)	139	massimi	130.00	-1037.0751	-5.1434	-5.36596	0.18899	0.76391	13.579
Asta 109 (77-76)	139	massimi	260.00	-1044.6801	-5.1434	-5.36596	0.18899	-6.31246	26.991
Asta 109 (77-76)	139	minimi	0.00	-1126.22834	-11.66277	-6.27827	0.17983	7.63904	-3.332
Asta 109 (77-76)	139	minimi	130.00	-1133.83334	-11.66277	-6.27827	0.17983	0.66329	11.83
Asta 109 (77-76)	139	minimi	260.00	-1141.43834	-11.66277	-6.27827	0.17983	-7.39783	20.266
Asta 110 (82-81)	140	massimi	0.00	-414.82361	-37.56261	-4.43989	-0.06194	8.35859	-48.235
Asta 110 (82-81)	140	massimi	130.00	-418.62611	-37.56261	-4.43989	-0.06194	1.67731	0.597
Asta 110 (82-81)	140	massimi	260.00	-422.42862	-37.56261	-4.43989	-0.06194	-4.28153	54.938
Asta 110 (82-81)	140	minimi	0.00	-449.45927	-42.80577	-5.13945	-0.06349	7.26219	-56.357
Asta 110 (82-81)	140	minimi	130.00	-453.26177	-42.80577	-5.13945	-0.06349	1.49033	-0.71
Asta 110 (82-81)	140	minimi	260.00	-457.06427	-42.80577	-5.13945	-0.06349	-5.00398	49.428
Asta 111 (87-86)	141	massimi	0.00	-100.03862	-10.9775	1.72782	-0.28692	2.01396	-3.125
Asta 111 (87-86)	141	massimi	130.00	-102.67924	-10.9775	1.72782	-0.28692	4.26012	12.009
Asta 111 (87-86)	141	massimi	260.00	-105.31987	-10.9775	1.72782	-0.28692	6.50628	27.402
Asta 111	141	minimi	0.00	-106.90655	-11.84039	1.60895	-0.308	1.88408	-3.383

(87-86)									
Asta 111 (87-86)	141	minimi	130.00	-109.54717	-11.84039	1.60895	-0.308	3.97571	11.146
Asta 111 (87-86)	141	minimi	260.00	-112.18779	-11.84039	1.60895	-0.308	6.06734	25.416
Asta 112 (92-91)	142	massimi	0.00	-40.49769	-5.84256	0.23715	-0.09757	1.41428	-6.143
Asta 112 (92-91)	142	massimi	130.00	-43.13831	-5.84256	0.23715	-0.09757	1.72257	1.604
Asta 112 (92-91)	142	massimi	260.00	-45.77894	-5.84256	0.23715	-0.09757	2.03087	9.764
Asta 112 (92-91)	142	minimi	0.00	-43.03099	-6.27671	0.21906	-0.10366	1.33075	-6.555
Asta 112 (92-91)	142	minimi	130.00	-45.67162	-6.27671	0.21906	-0.10366	1.61552	1.452
Asta 112 (92-91)	142	minimi	260.00	-48.31224	-6.27671	0.21906	-0.10366	1.90029	9.047
Asta 113 (102-101)	143	massimi	0.00	-608.92603	104.24409	-10.33013	2.07377	12.61107	196.104
Asta 113 (102-101)	143	massimi	130.00	-616.53103	104.24409	-10.33013	2.07377	-1.17796	60.587
Asta 113 (102-101)	143	massimi	260.00	-624.13603	104.24409	-10.33013	2.07377	-14.60713	-68.086
Asta 113 (102-101)	143	minimi	0.00	-649.44946	94.30879	-10.93363	2.01817	12.25121	177.117
Asta 113 (102-101)	143	minimi	130.00	-657.05446	94.30879	-10.93363	2.01817	-1.60264	54.516
Asta 113 (102-101)	143	minimi	260.00	-664.65946	94.30879	-10.93363	2.01817	-15.81636	-74.93
Asta 114 (107-106)	144	massimi	0.00	-862.19638	-21.67413	-15.26758	-1.38343	22.53707	-22.24
Asta 114 (107-106)	144	massimi	130.00	-869.80138	-21.67413	-15.26758	-1.38343	1.32271	8.179
Asta 114 (107-106)	144	massimi	260.00	-877.40638	-21.67413	-15.26758	-1.38343	-18.52514	38.598
Asta 114 (107-106)	144	minimi	0.00	-939.06402	-23.39912	-16.42323	-1.56126	21.17056	-22.254
Asta 114 (107-106)	144	minimi	130.00	-946.66902	-23.39912	-16.42323	-1.56126	1.18687	5.922
Asta 114 (107-106)	144	minimi	260.00	-954.27402	-23.39912	-16.42323	-1.56126	-20.16334	34.098
Asta 115 (112-111)	145	massimi	0.00	-236.57931	-29.63953	-34.41004	-1.51988	56.50787	-46.928
Asta 115 (112-111)	145	massimi	130.00	-240.38181	-29.63953	-34.41004	-1.51988	8.01537	-8.397
Asta 115 (112-111)	145	massimi	260.00	-244.18431	-29.63953	-34.41004	-1.51988	-37.31418	33.465
Asta 115 (112-111)	145	minimi	0.00	-256.56449	-33.62551	-37.30193	-1.69307	52.15193	-53.962
Asta 115 (112-111)	145	minimi	130.00	-260.367	-33.62551	-37.30193	-1.69307	7.41888	-10.249
Asta 115 (112-111)	145	minimi	260.00	-264.1695	-33.62551	-37.30193	-1.69307	-40.47714	30.135

Asta 116 (117-116)	146	massimi	0.00	-358.1918	54.3491	22.61881	-0.01808	-34.61476	78.673
Asta 116 (117-116)	146	massimi	130.00	-361.9943	54.3491	22.61881	-0.01808	-8.23482	8.019
Asta 116 (117-116)	146	massimi	260.00	-365.7968	54.3491	22.61881	-0.01808	19.75385	-56.898
Asta 116 (117-116)	146	minimi	0.00	-391.4207	49.21959	20.29226	-0.02547	-39.05504	71.073
Asta 116 (117-116)	146	minimi	130.00	-395.2232	49.21959	20.29226	-0.02547	-9.65059	7.087
Asta 116 (117-116)	146	minimi	260.00	-399.02571	49.21959	20.29226	-0.02547	18.14511	-62.635
Asta 117 (122-121)	147	massimi	0.00	-325.02514	-45.6122	13.46674	-2.41004	-18.24002	-65.263
Asta 117 (122-121)	147	massimi	130.00	-328.82764	-45.6122	13.46674	-2.41004	-2.83534	-5.967
Asta 117 (122-121)	147	massimi	260.00	-332.63014	-45.6122	13.46674	-2.41004	14.13611	58.748
Asta 117 (122-121)	147	minimi	0.00	-355.4769	-50.44222	11.84976	-2.65798	-20.87741	-72.402
Asta 117 (122-121)	147	minimi	130.00	-359.2794	-50.44222	11.84976	-2.65798	-3.37065	-6.827
Asta 117 (122-121)	147	minimi	260.00	-363.0819	-50.44222	11.84976	-2.65798	12.56935	53.328
Asta 118 (127-126)	148	massimi	0.00	-338.22733	20.24512	-17.07248	-1.32089	33.28978	29.277
Asta 118 (127-126)	148	massimi	130.00	-342.02983	20.24512	-17.07248	-1.32089	8.53559	2.958
Asta 118 (127-126)	148	massimi	260.00	-345.83233	20.24512	-17.07248	-1.32089	-15.00342	-21.88
Asta 118 (127-126)	148	minimi	0.00	-369.06127	19.01621	-19.04169	-1.45283	29.38501	27.562
Asta 118 (127-126)	148	minimi	130.00	-372.86377	19.01621	-19.04169	-1.45283	7.19079	2.841
Asta 118 (127-126)	148	minimi	260.00	-376.66627	19.01621	-19.04169	-1.45283	-16.21861	-23.361
Asta 119 (132-131)	149	massimi	0.00	-230.37171	-13.17347	-17.54806	0.50352	31.70742	-21.649
Asta 119 (132-131)	149	massimi	130.00	-234.17421	-13.17347	-17.54806	0.50352	5.96046	-4.524
Asta 119 (132-131)	149	massimi	260.00	-237.97671	-13.17347	-17.54806	0.50352	-17.59796	13.52
Asta 119 (132-131)	149	minimi	0.00	-250.82094	-14.11148	-19.80536	0.45293	28.027	-23.169
Asta 119 (132-131)	149	minimi	130.00	-254.62344	-14.11148	-19.80536	0.45293	5.21452	-4.824
Asta 119 (132-131)	149	minimi	260.00	-258.42594	-14.11148	-19.80536	0.45293	-19.78651	12.602

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Asta 120 (137-136)	150	massimi	0.00	-328.889	1.67442	-4.50127	-1.98977	7.11612	1.75
Asta 120 (137-136)	150	massimi	130.00	-332.6915	1.67442	-4.50127	-1.98977	0.53206	-0.427
Asta 120 (137-136)	150	massimi	260.00	-336.494	1.67442	-4.50127	-1.98977	-5.39729	-2.504
Asta 120 (137-136)	150	minimi	0.00	-361.03559	1.59309	-5.06466	-2.19965	6.306	1.638
Asta 120 (137-136)	150	minimi	130.00	-364.83809	1.59309	-5.06466	-2.19965	0.45436	-0.433
Asta 120 (137-136)	150	minimi	260.00	-368.64059	1.59309	-5.06466	-2.19965	-6.052	-2.604
Asta 121 (142-141)	151	massimi	0.00	-306.74985	-20.04284	-61.09419	-2.72642	82.42948	-32.395
Asta 121 (142-141)	151	massimi	130.00	-310.55235	-20.04284	-61.09419	-2.72642	-2.96088	-6.339
Asta 121 (142-141)	151	massimi	260.00	-314.35485	-20.04284	-61.09419	-2.72642	-82.38333	21.638
Asta 121 (142-141)	151	minimi	0.00	-328.78945	-22.04991	-65.76944	-2.99961	76.46156	-35.692
Asta 121 (142-141)	151	minimi	130.00	-332.59195	-22.04991	-65.76944	-2.99961	-3.0708	-7.027
Asta 121 (142-141)	151	minimi	260.00	-336.39445	-22.04991	-65.76944	-2.99961	-88.57107	19.717
Asta 122 (147-146)	152	massimi	0.00	-61.17586	-1.34716	-13.6798	-0.55826	22.50994	-4.327
Asta 122 (147-146)	152	massimi	130.00	-63.81649	-1.34716	-13.6798	-0.55826	3.17779	-2.576
Asta 122 (147-146)	152	massimi	260.00	-66.45711	-1.34716	-13.6798	-0.55826	-14.78893	-0.814
Asta 122 (147-146)	152	minimi	0.00	-62.50645	-1.48007	-14.87089	-0.6212	20.77855	-4.662
Asta 122 (147-146)	152	minimi	130.00	-65.14707	-1.48007	-14.87089	-0.6212	2.99481	-2.738
Asta 122 (147-146)	152	minimi	260.00	-67.7877	-1.48007	-14.87089	-0.6212	-16.15436	-0.824
Asta 123 (152-151)	153	massimi	0.00	-226.24806	-21.2888	-4.75624	1.61212	9.1494	-30.525
Asta 123 (152-151)	153	massimi	130.00	-230.05056	-21.2888	-4.75624	1.61212	2.46014	-2.85
Asta 123 (152-151)	153	massimi	260.00	-233.85306	-21.2888	-4.75624	1.61212	-3.93908	27.268
Asta 123 (152-151)	153	minimi	0.00	-246.7593	-23.41007	-5.14558	1.48951	8.42713	-33.598
Asta 123 (152-151)	153	minimi	130.00	-250.5618	-23.41007	-5.14558	1.48951	2.24403	-3.165
Asta 123	153	minimi	260.00	-254.36431	-23.41007	-5.14558	1.48951	-4.22911	24.826

(152-151)									
Asta 124 (157-156)	154	massimi	0.00	-237.48151	-18.93978	-4.95256	0.13991	8.96562	-22.358
Asta 124 (157-156)	154	massimi	130.00	-240.12214	-18.93978	-4.95256	0.13991	1.93742	2.388
Asta 124 (157-156)	154	massimi	260.00	-242.76276	-18.93978	-4.95256	0.13991	-4.6694	28.779
Asta 124 (157-156)	154	minimi	0.00	-256.14201	-20.30054	-5.40631	0.13931	8.20726	-24.002
Asta 124 (157-156)	154	minimi	130.00	-258.78263	-20.30054	-5.40631	0.13931	1.76893	2.264
Asta 124 (157-156)	154	minimi	260.00	-261.42325	-20.30054	-5.40631	0.13931	-5.09079	26.885
Asta 125 (222-221)	155	massimi	0.00	-194.9564	-2.89425	1.22006	-0.01308	-2.36332	-4.496
Asta 125 (222-221)	155	massimi	130.00	-198.7589	-2.89425	1.22006	-0.01308	-0.90569	-0.733
Asta 125 (222-221)	155	massimi	260.00	-202.5614	-2.89425	1.22006	-0.01308	0.6318	3.494
Asta 125 (222-221)	155	minimi	0.00	-220.28239	-3.3377	1.12125	-0.03166	-2.54035	-5.184
Asta 125 (222-221)	155	minimi	130.00	-224.08489	-3.3377	1.12125	-0.03166	-0.95428	-0.845
Asta 125 (222-221)	155	minimi	260.00	-227.88739	-3.3377	1.12125	-0.03166	0.55193	3.029
Asta 126 (227-226)	156	massimi	0.00	-333.82804	-3.66198	0.8812	-0.13462	-1.77969	-6.269
Asta 126 (227-226)	156	massimi	130.00	-337.63054	-3.66198	0.8812	-0.13462	-0.76713	-1.508
Asta 126 (227-226)	156	massimi	260.00	-341.43304	-3.66198	0.8812	-0.13462	0.28088	4.024
Asta 126 (227-226)	156	minimi	0.00	-383.08769	-4.50709	0.77889	-0.1634	-2.01024	-7.695
Asta 126 (227-226)	156	minimi	130.00	-386.89019	-4.50709	0.77889	-0.1634	-0.86468	-1.835
Asta 126 (227-226)	156	minimi	260.00	-390.69269	-4.50709	0.77889	-0.1634	0.24544	3.252
Asta 127 (232-231)	157	massimi	0.00	-340.73454	-5.10379	0.16887	-0.00824	-0.41863	-8.839
Asta 127 (232-231)	157	massimi	130.00	-344.53704	-5.10379	0.16887	-0.00824	-0.22211	-2.204
Asta 127 (232-231)	157	massimi	260.00	-348.33954	-5.10379	0.16887	-0.00824	-0.02559	5.212
Asta 127 (232-231)	157	minimi	0.00	-390.90608	-6.0225	0.15117	-0.01802	-0.47181	-10.447
Asta 127 (232-231)	157	minimi	130.00	-394.70858	-6.0225	0.15117	-0.01802	-0.25228	-2.617

Asta 127 (232-231)	157	minimi	260.00	-398.51108	-6.0225	0.15117	-0.01802	-0.03275	4.431
Asta 128 (237-236)	158	massimi	0.00	-341.4646	-4.47085	-0.14069	0.17889	0.12301	-7.953
Asta 128 (237-236)	158	massimi	130.00	-345.2671	-4.47085	-0.14069	0.17889	-0.0742	-2.141
Asta 128 (237-236)	158	massimi	260.00	-349.06961	-4.47085	-0.14069	0.17889	-0.2571	4.372
Asta 128 (237-236)	158	minimi	0.00	-391.76525	-5.32224	-0.15858	0.17056	0.1087	-9.466
Asta 128 (237-236)	158	minimi	130.00	-395.56775	-5.32224	-0.15858	0.17056	-0.08315	-2.547
Asta 128 (237-236)	158	minimi	260.00	-399.37026	-5.32224	-0.15858	0.17056	-0.28931	3.671
Asta 129 (242-241)	159	massimi	0.00	-339.82575	-0.02544	-0.54796	0.32148	1.13534	-1.111
Asta 129 (242-241)	159	massimi	130.00	-343.62825	-0.02544	-0.54796	0.32148	0.31733	-1.078
Asta 129 (242-241)	159	massimi	260.00	-347.43075	-0.02544	-0.54796	0.32148	-0.43536	-0.807
Asta 129 (242-241)	159	minimi	0.00	-389.81898	-0.43723	-0.62924	0.29391	0.98933	-1.944
Asta 129 (242-241)	159	minimi	130.00	-393.62148	-0.43723	-0.62924	0.29391	0.27698	-1.375
Asta 129 (242-241)	159	minimi	260.00	-397.42398	-0.43723	-0.62924	0.29391	-0.50067	-1.045
Asta 130 (68-53)	160	massimi	0.00	19.67055	6.89308	-10.75907	8.07036	28.43439	10.107
Asta 130 (68-53)	160	massimi	116.50	19.67055	6.89308	-32.20723	8.07036	2.70816	2.076
Asta 130 (68-53)	160	massimi	233.00	19.67055	6.89308	-53.65539	8.07036	-47.30682	-5.50
Asta 130 (68-53)	160	minimi	0.00	18.54774	6.36796	-11.8066	7.37539	27.73603	9.338
Asta 130 (68-53)	160	minimi	116.50	18.54774	6.36796	-33.25475	7.37539	2.18616	1.919
Asta 130 (68-53)	160	minimi	233.00	18.54774	6.36796	-54.70291	7.37539	-49.04918	-5.954
Asta 131 (63-58)	161	massimi	0.00	-5.3416	0.32472	35.41066	0.70041	-17.15286	0.967
Asta 131 (63-58)	161	massimi	204.50	-5.3416	0.32472	-3.89994	0.00391	13.20252	0.303
Asta 131 (63-58)	161	massimi	409.00	-5.3416	0.32472	-39.14701	-0.30982	-31.94135	-0.332
Asta 131 (63-58)	161	minimi	0.00	-5.74415	0.30132	33.05216	0.61717	-18.40106	0.90
Asta 131 (63-58)	161	minimi	204.50	-5.74415	0.30132	-4.17885	0.002	12.36472	0.284
Asta 131 (63-58)	161	minimi	409.00	-5.74415	0.30132	-41.82633	-0.35528	-34.16872	-0.361
Asta 132 (58-68)	162	massimi	0.00	-15.37318	1.36891	58.05109	1.05089	-57.90558	2.979
Asta 132 (58-68)	162	massimi	205.50	-15.37318	1.36891	18.30179	0.37506	16.00187	0.166
Asta 132 (58-68)	162	massimi	411.00	-15.37318	1.36891	-18.78405	-0.00201	14.06084	-2.494
Asta 132 (58-68)	162	minimi	0.00	-16.57766	1.2846	54.09825	0.94408	-62.19248	2.786

Asta 132 (58-68)	162	minimi	205.50	-16.57766	1.2846	16.99512	0.35064	14.91613	0.146
Asta 132 (58-68)	162	minimi	411.00	-16.57766	1.2846	-19.93954	-0.02654	12.85128	-2.647
Asta 133 (88-58)	163	massimi	0.00	0.94668	-1.65236	4.45136	-0.2741	-0.0862	-2.697
Asta 133 (88-58)	163	massimi	166.00	0.94668	-1.65236	-0.96414	-0.2741	2.73909	0.047
Asta 133 (88-58)	163	massimi	332.00	0.94668	-1.65236	-6.08939	-0.2741	-3.29194	2.989
Asta 133 (88-58)	163	minimi	0.00	0.88658	-1.77221	4.16111	-0.29534	-0.09101	-2.895
Asta 133 (88-58)	163	minimi	166.00	0.88658	-1.77221	-1.04739	-0.29534	2.56248	0.046
Asta 133 (88-58)	163	minimi	332.00	0.88658	-1.77221	-6.54614	-0.29534	-3.56354	2.789
Asta 134 (93-63)	164	massimi	0.00	-0.11749	-0.48908	4.99461	-0.00935	-1.10037	-0.826
Asta 134 (93-63)	164	massimi	166.00	-0.11749	-0.48908	-0.46601	-0.00935	2.54203	-0.014
Asta 134 (93-63)	164	massimi	332.00	-0.11749	-0.48908	-5.59126	-0.00935	-2.64751	0.857
Asta 134 (93-63)	164	minimi	0.00	-0.12281	-0.52511	4.65924	-0.012	-1.18506	-0.886
Asta 134 (93-63)	164	minimi	166.00	-0.12281	-0.52511	-0.50414	-0.012	2.38002	-0.014
Asta 134 (93-63)	164	minimi	332.00	-0.12281	-0.52511	-6.00289	-0.012	-2.85881	0.798
Asta 135 (83-68)	165	massimi	0.00	18.30164	-9.00522	36.79555	-5.47589	-25.73099	-9.871
Asta 135 (83-68)	165	massimi	120.50	18.30164	-9.00522	22.46425	-5.47589	9.97304	1.084
Asta 135 (83-68)	165	massimi	241.00	18.30164	-9.00522	8.13295	-5.47589	28.40785	12.754
Asta 135 (83-68)	165	minimi	0.00	17.26314	-9.68458	36.68759	-5.99048	-26.14463	-10.586
Asta 135 (83-68)	165	minimi	120.50	17.26314	-9.68458	22.35628	-5.99048	9.4293	0.981
Asta 135 (83-68)	165	minimi	241.00	17.26314	-9.68458	8.02498	-5.99048	27.73401	11.832
Asta 136 (98-83)	166	massimi	0.00	24.62449	16.92352	-42.07754	10.07515	14.33241	3.467
Asta 136 (98-83)	166	massimi	45.50	24.62449	16.92352	-50.36077	10.07515	-7.05463	-3.954
Asta 136 (98-83)	166	massimi	91.00	24.62449	16.92352	-58.64399	10.07515	-32.21053	-11.119
Asta 136 (98-83)	166	minimi	0.00	23.25146	15.74922	-42.86286	9.21321	13.16508	3.212
Asta 136 (98-83)	166	minimi	45.50	23.25146	15.74922	-51.14609	9.21321	-7.86464	-4.233
Asta 136 (98-83)	166	minimi	91.00	23.25146	15.74922	-59.42931	9.21321	-32.66322	-11.933
Asta 137 (88-93)	167	massimi	0.00	-6.33163	0.35996	43.01935	0.83906	-31.48027	0.483
Asta 137 (88-93)	167	massimi	204.50	-6.33163	0.35996	3.42985	0.14066	13.46786	-0.235
Asta 137 (88-93)	167	massimi	409.00	-6.33163	0.35996	-32.01969	-0.18145	-17.11805	-0.923
Asta 137 (88-93)	167	minimi	0.00	-6.80182	0.33655	40.17947	0.74555	-33.69549	0.453
Asta 137 (88-93)	167	minimi	204.50	-6.80182	0.33655	3.22737	0.13229	12.61266	-0.254
Asta 137 (88-93)	167	minimi	409.00	-6.80182	0.33655	-34.21764	-0.21663	-18.34361	-0.99
Asta 138 (98-88)	168	massimi	0.00	-18.96149	1.1411	22.37354	0.59597	11.33788	1.969
Asta 138 (98-88)	168	massimi	205.50	-18.96149	1.1411	-16.10011	-0.07986	16.21485	-0.355
Asta 138 (98-88)	168	massimi	411.00	-18.96149	1.1411	-51.87928	-0.48147	-54.96888	-2.531

Asta 138 (98-88)	168	minimi	0.00	-20.41443	1.05891	21.00302	0.45989	10.29566	1.821
Asta 138 (98-88)	168	minimi	205.50	-20.41443	1.05891	-17.37576	-0.13355	15.10667	-0.376
Asta 138 (98-88)	168	minimi	411.00	-20.41443	1.05891	-55.61709	-0.4862	-59.04354	-2.721
Asta 139 (113-98)	169	massimi	0.00	23.48339	-3.21227	49.23908	-1.08245	-39.1895	-7.269
Asta 139 (113-98)	169	massimi	191.50	23.48339	-3.21227	14.37488	-1.08245	20.78296	-1.118
Asta 139 (113-98)	169	massimi	383.00	23.48339	-3.21227	-20.48932	-1.08245	14.92838	5.436
Asta 139 (113-98)	169	minimi	0.00	22.19255	-3.4909	48.65388	-1.26272	-40.12741	-7.934
Asta 139 (113-98)	169	minimi	191.50	22.19255	-3.4909	13.78968	-1.26272	20.60021	-1.249
Asta 139 (113-98)	169	minimi	383.00	22.19255	-3.4909	-21.07452	-1.26272	13.62497	5.034
Asta 140 (143-113)	170	massimi	0.00	8.44171	4.08715	33.30898	5.41233	-47.05529	4.138
Asta 140 (143-113)	170	massimi	165.00	8.44171	4.08715	25.67141	5.41233	-1.9737	-2.383
Asta 140 (143-113)	170	massimi	330.00	8.44171	4.08715	18.03384	5.41233	33.95081	-8.608
Asta 140 (143-113)	170	minimi	0.00	7.88835	3.77273	31.14096	4.86898	-50.76484	3.842
Asta 140 (143-113)	170	minimi	165.00	7.88835	3.77273	23.50339	4.86898	-2.10601	-2.606
Asta 140 (143-113)	170	minimi	330.00	7.88835	3.77273	15.86581	4.86898	30.50589	-9.35
Asta 141 (3-2)	171	massimi	0.00	-353.47874	44.8959	15.21608	0.97925	-5.10381	4.326
Asta 141 (3-2)	171	massimi	94.00	-358.97774	44.8959	15.21608	0.97925	8.80722	-33.344
Asta 141 (3-2)	171	massimi	188.00	-364.47674	44.8959	15.21608	0.97925	23.11033	-71.014
Asta 141 (3-2)	171	minimi	0.00	-364.93282	40.07442	14.28742	0.72671	-5.49589	1.365
Asta 141 (3-2)	171	minimi	94.00	-370.43182	40.07442	14.28742	0.72671	8.32637	-40.838
Asta 141 (3-2)	171	minimi	188.00	-375.93082	40.07442	14.28742	0.72671	21.75654	-83.04
Asta 142 (8-7)	172	massimi	0.00	-371.91267	-46.28203	25.48513	2.00777	-9.36027	0.302
Asta 142 (8-7)	172	massimi	94.00	-377.41167	-46.28203	25.48513	2.00777	13.79159	49.196
Asta 142 (8-7)	172	massimi	188.00	-382.91067	-46.28203	25.48513	2.00777	37.7476	98.091
Asta 142 (8-7)	172	minimi	0.00	-385.25947	-52.01527	23.65596	1.9252	-10.16443	-2.752
Asta 142 (8-7)	172	minimi	94.00	-390.75847	-52.01527	23.65596	1.9252	12.87633	40.753
Asta 142 (8-7)	172	minimi	188.00	-396.25747	-52.01527	23.65596	1.9252	35.11293	84.258
Asta 143 (13-12)	173	massimi	0.00	-410.90619	56.14413	6.44564	2.26211	-1.84381	-35.359
Asta 143 (13-12)	173	massimi	94.00	-416.40519	56.14413	6.44564	2.26211	3.98445	-83.267
Asta 143 (13-12)	173	massimi	188.00	-421.90419	56.14413	6.44564	2.26211	10.04335	-131.175
Asta 143 (13-12)	173	minimi	0.00	-426.0016	50.96609	5.69896	1.89428	-2.07446	-44.53
Asta 143 (13-12)	173	minimi	94.00	-431.5006	50.96609	5.69896	1.89428	3.51322	-97.305

Asta 143 (13-12)	173	minimi	188.00	-436.9996	50.96609	5.69896	1.89428	8.87024	-150.081
Asta 144 (18-17)	174	massimi	0.00	-465.54541	-29.37616	20.64475	3.95352	-5.94865	41.513
Asta 144 (18-17)	174	massimi	94.00	-471.04441	-29.37616	20.64475	3.95352	12.78542	72.244
Asta 144 (18-17)	174	massimi	188.00	-476.54341	-29.37616	20.64475	3.95352	32.19148	102.975
Asta 144 (18-17)	174	minimi	0.00	-483.63327	-32.69285	18.49741	3.64113	-6.62064	35.364
Asta 144 (18-17)	174	minimi	94.00	-489.13227	-32.69285	18.49741	3.64113	11.43891	62.978
Asta 144 (18-17)	174	minimi	188.00	-494.63127	-32.69285	18.49741	3.64113	28.82648	90.591
Asta 145 (23-22)	175	massimi	0.00	-85.67759	-19.40035	20.09964	0.7898	-4.53604	-8.589
Asta 145 (23-22)	175	massimi	94.00	-87.58697	-19.40035	20.09964	0.7898	13.94036	10.438
Asta 145 (23-22)	175	massimi	188.00	-89.49634	-19.40035	20.09964	0.7898	32.83402	30.098
Asta 145 (23-22)	175	minimi	0.00	-91.69369	-20.91555	18.39283	0.71694	-4.9533	-9.223
Asta 145 (23-22)	175	minimi	94.00	-93.60307	-20.91555	18.39283	0.71694	12.75322	9.648
Asta 145 (23-22)	175	minimi	188.00	-95.51244	-20.91555	18.39283	0.71694	30.04248	27.884
Asta 146 (28-27)	176	massimi	0.00	-425.21683	51.57796	-1.26197	1.49059	0.25813	-30.126
Asta 146 (28-27)	176	massimi	94.00	-430.71583	51.57796	-1.26197	1.49059	-0.95819	-74.147
Asta 146 (28-27)	176	massimi	188.00	-436.21483	51.57796	-1.26197	1.49059	-2.14444	-118.169
Asta 146 (28-27)	176	minimi	0.00	-442.22153	46.83125	-1.39224	1.36093	0.22806	-38.846
Asta 146 (28-27)	176	minimi	94.00	-447.72053	46.83125	-1.39224	1.36093	-1.05057	-87.329
Asta 146 (28-27)	176	minimi	188.00	-453.21953	46.83125	-1.39224	1.36093	-2.35927	-135.812
Asta 147 (33-32)	177	massimi	0.00	-527.1382	-12.91498	6.06688	2.20535	-2.46838	45.306
Asta 147 (33-32)	177	massimi	94.00	-532.6372	-12.91498	6.06688	2.20535	2.95355	58.658
Asta 147 (33-32)	177	massimi	188.00	-538.1362	-12.91498	6.06688	2.20535	8.65642	72.009
Asta 147 (33-32)	177	minimi	0.00	-548.61234	-14.20363	5.40668	1.98848	-2.74932	40.136
Asta 147 (33-32)	177	minimi	94.00	-554.11134	-14.20363	5.40668	1.98848	2.61389	52.276
Asta 147 (33-32)	177	minimi	188.00	-559.61034	-14.20363	5.40668	1.98848	7.69617	64.416
Asta 148 (38-37)	178	massimi	0.00	-124.86971	-27.1481	18.23636	0.56468	-4.43588	-10.958
Asta 148 (38-37)	178	massimi	94.00	-126.77908	-27.1481	18.23636	0.56468	12.30954	16.492
Asta 148 (38-37)	178	massimi	188.00	-128.68846	-27.1481	18.23636	0.56468	29.45172	44.552
Asta 148 (38-37)	178	minimi	0.00	-132.55684	-29.85082	16.71305	0.51414	-4.83264	-11.568
Asta 148 (38-37)	178	minimi	94.00	-134.46622	-29.85082	16.71305	0.51414	11.27439	14.562
Asta 148 (38-37)	178	minimi	188.00	-136.37559	-29.85082	16.71305	0.51414	26.98466	40.081
Asta 149 (43-42)	179	massimi	0.00	-425.03227	50.53748	-1.84026	-0.69087	0.45794	-28.561
Asta 149 (43-42)	179	massimi	94.00	-430.53127	50.53748	-1.84026	-0.69087	-1.32945	-71.688
Asta 149 (43-42)	179	massimi	188.00	-436.03027	50.53748	-1.84026	-0.69087	-3.05929	-114.815
Asta 149 (43-42)	179	minimi	0.00	-442.01091	45.87971	-2.05659	-0.7436	0.40039	-37.126

Asta 149 (43-42)	179	minimi	94.00	-447.50991	45.87971	-2.05659	-0.7436	-1.47526	-84.631
Asta 149 (43-42)	179	minimi	188.00	-453.00891	45.87971	-2.05659	-0.7436	-3.40845	-132.136
Asta 150 (48-47)	180	massimi	0.00	-535.66161	-7.77501	-0.22478	0.38784	-0.74606	46.333
Asta 150 (48-47)	180	massimi	94.00	-541.16061	-7.77501	-0.22478	0.38784	-0.95735	54.45
Asta 150 (48-47)	180	massimi	188.00	-546.65961	-7.77501	-0.22478	0.38784	-1.16864	62.568
Asta 150 (48-47)	180	minimi	0.00	-558.47674	-8.63555	-0.43281	0.36094	-0.76139	41.14
Asta 150 (48-47)	180	minimi	94.00	-563.97574	-8.63555	-0.43281	0.36094	-1.16824	48.449
Asta 150 (48-47)	180	minimi	188.00	-569.47474	-8.63555	-0.43281	0.36094	-1.57508	55.757
Asta 151 (53-52)	181	massimi	0.00	-182.58875	-25.78119	25.23577	-2.19564	-20.75411	-11.674
Asta 151 (53-52)	181	massimi	94.00	-184.49812	-25.78119	25.23577	-2.19564	2.26837	14.401
Asta 151 (53-52)	181	massimi	188.00	-186.4075	-25.78119	25.23577	-2.19564	25.99	41.18
Asta 151 (53-52)	181	minimi	0.00	-192.34915	-28.48863	24.1354	-2.37837	-21.45325	-12.379
Asta 151 (53-52)	181	minimi	94.00	-194.25852	-28.48863	24.1354	-2.37837	1.93317	12.56
Asta 151 (53-52)	181	minimi	188.00	-196.1679	-28.48863	24.1354	-2.37837	24.62045	36.794
Asta 152 (58-57)	182	massimi	0.00	-99.33464	-11.68394	0.09751	-0.32849	-2.03804	-25.69
Asta 152 (58-57)	182	massimi	94.00	-101.24402	-11.68394	0.09751	-0.32849	-1.94715	-14.707
Asta 152 (58-57)	182	massimi	188.00	-103.15339	-11.68394	0.09751	-0.32849	-1.85625	-3.724
Asta 152 (58-57)	182	minimi	0.00	-106.42356	-12.60571	0.0967	-0.35102	-2.15737	-27.728
Asta 152 (58-57)	182	minimi	94.00	-108.33294	-12.60571	0.0967	-0.35102	-2.06571	-15.879
Asta 152 (58-57)	182	minimi	188.00	-110.24231	-12.60571	0.0967	-0.35102	-1.97405	-4.03
Asta 153 (63-62)	183	massimi	0.00	-38.64341	-5.83068	0.44753	-0.10252	-2.03034	-17.144
Asta 153 (63-62)	183	massimi	94.00	-40.55279	-5.83068	0.44753	-0.10252	-1.63666	-11.663
Asta 153 (63-62)	183	massimi	188.00	-42.46216	-5.83068	0.44753	-0.10252	-1.24298	-6.182
Asta 153 (63-62)	183	minimi	0.00	-41.41355	-6.26926	0.41881	-0.10998	-2.1584	-18.389
Asta 153 (63-62)	183	minimi	94.00	-43.32292	-6.26926	0.41881	-0.10998	-1.73772	-12.496
Asta 153 (63-62)	183	minimi	188.00	-45.2323	-6.26926	0.41881	-0.10998	-1.31705	-6.603
Asta 154 (73-72)	184	massimi	0.00	-417.36085	53.04899	-5.47788	-1.20828	1.66179	-28.522
Asta 154 (73-72)	184	massimi	94.00	-422.85985	53.04899	-5.47788	-1.20828	-3.68539	-73.665
Asta 154 (73-72)	184	massimi	188.00	-428.35885	53.04899	-5.47788	-1.20828	-8.83459	-118.808
Asta 154 (73-72)	184	minimi	0.00	-433.25592	48.02461	-6.24762	-1.4954	1.46382	-36.939
Asta 154 (73-72)	184	minimi	94.00	-438.75492	48.02461	-6.24762	-1.4954	-4.21098	-86.805
Asta 154 (73-72)	184	minimi	188.00	-444.25392	48.02461	-6.24762	-1.4954	-10.08374	-136.671
Asta 155 (78-77)	185	massimi	0.00	-519.76203	-2.42322	-8.38997	-1.08289	1.86683	49.997
Asta 155 (78-77)	185	massimi	94.00	-525.26103	-2.42322	-8.38997	-1.08289	-6.28556	52.828
Asta 155 (78-77)	185	massimi	188.00	-530.76003	-2.42322	-8.38997	-1.08289	-14.17213	55.66

Asta 155 (78-77)	185	minimi	0.00	-540.69377	-3.01206	-9.57337	-1.14035	1.60101	44.622
Asta 155 (78-77)	185	minimi	94.00	-546.19277	-3.01206	-9.57337	-1.14035	-7.13214	46.90
Asta 155 (78-77)	185	minimi	188.00	-551.69177	-3.01206	-9.57337	-1.14035	-16.13111	49.178
Asta 156 (83-82)	186	massimi	0.00	-215.02276	-20.97492	0.59799	-0.41489	-0.72504	-7.956
Asta 156 (83-82)	186	massimi	94.00	-216.93213	-20.97492	0.59799	-0.41489	-0.37044	13.529
Asta 156 (83-82)	186	massimi	188.00	-218.84151	-20.97492	0.59799	-0.41489	0.19167	35.539
Asta 156 (83-82)	186	minimi	0.00	-224.21085	-23.41491	0.34148	-0.4304	-0.93255	-8.481
Asta 156 (83-82)	186	minimi	94.00	-226.12023	-23.41491	0.34148	-0.4304	-0.40405	11.76
Asta 156 (83-82)	186	minimi	188.00	-228.0296	-23.41491	0.34148	-0.4304	-0.08306	31.477
Asta 157 (88-87)	187	massimi	0.00	-96.21987	-10.9775	1.72782	-0.28692	-1.14074	-23.763
Asta 157 (88-87)	187	massimi	94.00	-98.12924	-10.9775	1.72782	-0.28692	0.38981	-13.444
Asta 157 (88-87)	187	massimi	188.00	-100.03862	-10.9775	1.72782	-0.28692	2.01396	-3.125
Asta 157 (88-87)	187	minimi	0.00	-103.0878	-11.84039	1.60895	-0.308	-1.23433	-25.643
Asta 157 (88-87)	187	minimi	94.00	-104.99717	-11.84039	1.60895	-0.308	0.37167	-14.513
Asta 157 (88-87)	187	minimi	188.00	-106.90655	-11.84039	1.60895	-0.308	1.88408	-3.383
Asta 158 (93-92)	188	massimi	0.00	-36.67894	-5.84256	0.23715	-0.09757	0.96843	-17.127
Asta 158 (93-92)	188	massimi	94.00	-38.58831	-5.84256	0.23715	-0.09757	1.19135	-11.635
Asta 158 (93-92)	188	massimi	188.00	-40.49769	-5.84256	0.23715	-0.09757	1.41428	-6.143
Asta 158 (93-92)	188	minimi	0.00	-39.21224	-6.27671	0.21906	-0.10366	0.91892	-18.356
Asta 158 (93-92)	188	minimi	94.00	-41.12162	-6.27671	0.21906	-0.10366	1.12483	-12.455
Asta 158 (93-92)	188	minimi	188.00	-43.03099	-6.27671	0.21906	-0.10366	1.33075	-6.555
Asta 159 (103-102)	189	massimi	0.00	-363.04591	67.36739	-8.2053	1.12176	3.08521	-13.121
Asta 159 (103-102)	189	massimi	94.00	-368.54491	67.36739	-8.2053	1.12176	-4.93372	-69.81
Asta 159 (103-102)	189	massimi	188.00	-374.04391	67.36739	-8.2053	1.12176	-12.6467	-126.499
Asta 159 (103-102)	189	minimi	0.00	-380.94186	60.3072	-8.56216	1.04204	2.77926	-14.055
Asta 159 (103-102)	189	minimi	94.00	-386.44086	60.3072	-8.56216	1.04204	-4.96322	-77.38
Asta 159 (103-102)	189	minimi	188.00	-391.93986	60.3072	-8.56216	1.04204	-13.01164	-140.706
Asta 160 (108-107)	190	massimi	0.00	-468.22057	-9.00639	-15.41158	-1.45807	3.30879	27.877
Asta 160 (108-107)	190	massimi	94.00	-473.71957	-9.00639	-15.41158	-1.45807	-11.4171	38.012
Asta 160 (108-107)	190	massimi	188.00	-479.21857	-9.00639	-15.41158	-1.45807	-25.90399	48.147
Asta 160	190	minimi	0.00	-492.58045	-10.78184	-16.46061	-1.54954	3.06979	27.64

(108-107)									
Asta 160 (108-107)	190	minimi	94.00	-498.07945	-10.78184	-16.46061	-1.54954	-12.16418	36.106
Asta 160 (108-107)	190	minimi	188.00	-503.57845	-10.78184	-16.46061	-1.54954	-27.63715	44.572
Asta 161 (113-112)	191	massimi	0.00	-120.50935	-24.3961	-38.93645	-1.5048	37.54744	-9.895
Asta 161 (113-112)	191	massimi	94.00	-122.41872	-24.3961	-38.93645	-1.5048	-1.38532	14.902
Asta 161 (113-112)	191	massimi	188.00	-124.3281	-24.3961	-38.93645	-1.5048	-37.98559	40.36
Asta 161 (113-112)	191	minimi	0.00	-123.8868	-27.08258	-41.66066	-1.61727	35.21494	-10.556
Asta 161 (113-112)	191	minimi	94.00	-125.79617	-27.08258	-41.66066	-1.61727	-1.61358	13.038
Asta 161 (113-112)	191	minimi	188.00	-127.70555	-27.08258	-41.66066	-1.61727	-40.7746	35.97
Asta 162 (118-117)	192	massimi	0.00	-108.55035	21.75466	23.76196	0.29108	-10.96765	6.659
Asta 162 (118-117)	192	massimi	94.00	-110.45973	21.75466	23.76196	0.29108	10.81069	-12.439
Asta 162 (118-117)	192	massimi	188.00	-112.3691	21.75466	23.76196	0.29108	33.14693	-31.104
Asta 162 (118-117)	192	minimi	0.00	-109.35089	19.85617	21.90547	0.27054	-11.52555	6.226
Asta 162 (118-117)	192	minimi	94.00	-111.26027	19.85617	21.90547	0.27054	9.62349	-13.791
Asta 162 (118-117)	192	minimi	188.00	-113.16964	19.85617	21.90547	0.27054	30.21463	-34.24
Asta 163 (123-122)	193	massimi	0.00	-81.61506	-23.08936	7.63808	-1.63799	-2.62099	-6.837
Asta 163 (123-122)	193	massimi	94.00	-83.52443	-23.08936	7.63808	-1.63799	4.33432	16.481
Asta 163 (123-122)	193	massimi	188.00	-85.43381	-23.08936	7.63808	-1.63799	11.51412	40.286
Asta 163 (123-122)	193	minimi	0.00	-82.48137	-25.32421	6.83187	-1.79773	-2.84547	-7.324
Asta 163 (123-122)	193	minimi	94.00	-84.39074	-25.32421	6.83187	-1.79773	3.80097	14.867
Asta 163 (123-122)	193	minimi	188.00	-86.30012	-25.32421	6.83187	-1.79773	10.22293	36.571
Asta 164 (128-127)	194	massimi	0.00	-106.65383	10.15088	-20.68299	-0.97422	11.81441	2.875
Asta 164 (128-127)	194	massimi	94.00	-108.5632	10.15088	-20.68299	-0.97422	-8.16225	-6.293
Asta 164 (128-127)	194	massimi	188.00	-110.47258	10.15088	-20.68299	-0.97422	-27.60426	-15.31

Asta 164 (128-127)	194	minimi	0.00	-113.16568	9.59273	-22.40463	-1.06751	11.27976	2.724
Asta 164 (128-127)	194	minimi	94.00	-115.07506	9.59273	-22.40463	-1.06751	-9.24594	-6.667
Asta 164 (128-127)	194	minimi	188.00	-116.98443	9.59273	-22.40463	-1.06751	-30.30629	-16.209
Asta 165 (133-132)	195	massimi	0.00	-123.55902	-3.29467	-9.19493	-0.1031	2.27433	0.88
Asta 165 (133-132)	195	massimi	94.00	-125.46839	-3.29467	-9.19493	-0.1031	-6.4641	4.046
Asta 165 (133-132)	195	massimi	188.00	-127.37777	-3.29467	-9.19493	-0.1031	-15.10734	7.213
Asta 165 (133-132)	195	minimi	0.00	-135.44682	-3.36864	-10.22429	-0.12474	2.17913	0.703
Asta 165 (133-132)	195	minimi	94.00	-137.3562	-3.36864	-10.22429	-0.12474	-7.3365	3.80
Asta 165 (133-132)	195	minimi	188.00	-139.26557	-3.36864	-10.22429	-0.12474	-16.94733	6.897
Asta 166 (138-137)	196	massimi	0.00	-127.90746	2.0155	-2.70541	-1.30962	1.16901	2.073
Asta 166 (138-137)	196	massimi	94.00	-129.81683	2.0155	-2.70541	-1.30962	-1.51934	0.212
Asta 166 (138-137)	196	massimi	188.00	-131.7262	2.0155	-2.70541	-1.30962	-4.06242	-1.649
Asta 166 (138-137)	196	minimi	0.00	-132.73087	1.97998	-3.11272	-1.43592	1.02374	2.025
Asta 166 (138-137)	196	minimi	94.00	-134.64024	1.97998	-3.11272	-1.43592	-1.75694	0.131
Asta 166 (138-137)	196	minimi	188.00	-136.54962	1.97998	-3.11272	-1.43592	-4.6829	-1.764
Asta 167 (143-142)	197	massimi	0.00	-104.2329	-12.7149	-32.69851	-3.151	28.31762	-3.364
Asta 167 (143-142)	197	massimi	94.00	-106.14228	-12.7149	-32.69851	-3.151	-4.50786	9.474
Asta 167 (143-142)	197	massimi	188.00	-108.05165	-12.7149	-32.69851	-3.151	-35.24446	22.472
Asta 167 (143-142)	197	minimi	0.00	-110.5454	-13.82788	-35.28725	-3.42961	26.22873	-3.525
Asta 167 (143-142)	197	minimi	94.00	-112.45477	-13.82788	-35.28725	-3.42961	-4.8524	8.588
Asta 167 (143-142)	197	minimi	188.00	-114.36415	-13.82788	-35.28725	-3.42961	-38.02241	20.54
Asta 168 (148-147)	198	massimi	0.00	-40.30078	-4.65065	-10.32686	-0.23855	2.67116	-1.80
Asta 168 (148-147)	198	massimi	94.00	-42.21016	-4.65065	-10.32686	-0.23855	-7.19156	2.75
Asta 168 (148-147)	198	massimi	188.00	-44.11953	-4.65065	-10.32686	-0.23855	-16.89881	7.395

147)									
Asta 168 (148-147)	198	minimi	0.00	-42.51592	-4.94114	-11.04833	-0.2397	2.5157	-1.895
Asta 168 (148-147)	198	minimi	94.00	-44.4253	-4.94114	-11.04833	-0.2397	-7.71427	2.572
Asta 168 (148-147)	198	minimi	188.00	-46.33467	-4.94114	-11.04833	-0.2397	-18.0997	6.943
Asta 169 (153-152)	199	massimi	0.00	-111.61256	-10.65185	-2.04325	1.33072	0.96373	-3.385
Asta 169 (153-152)	199	massimi	94.00	-113.52193	-10.65185	-2.04325	1.33072	-1.03531	7.311
Asta 169 (153-152)	199	massimi	188.00	-115.43131	-10.65185	-2.04325	1.33072	-2.95597	18.322
Asta 169 (153-152)	199	minimi	0.00	-117.69276	-11.71383	-2.21367	1.21959	0.88534	-3.70
Asta 169 (153-152)	199	minimi	94.00	-119.60214	-11.71383	-2.21367	1.21959	-1.11712	6.628
Asta 169 (153-152)	199	minimi	188.00	-121.51151	-11.71383	-2.21367	1.21959	-3.19797	16.64
Asta 170 (158-157)	200	massimi	0.00	-115.94086	-9.33312	-1.00484	0.71915	-2.25168	-3.337
Asta 170 (158-157)	200	massimi	94.00	-117.85023	-9.33312	-1.00484	0.71915	-3.25411	5.886
Asta 170 (158-157)	200	massimi	188.00	-119.75961	-9.33312	-1.00484	0.71915	-4.25654	15.471
Asta 170 (158-157)	200	minimi	0.00	-126.55098	-10.19589	-1.06642	0.65656	-2.74027	-3.698
Asta 170 (158-157)	200	minimi	94.00	-128.46036	-10.19589	-1.06642	0.65656	-3.68481	5.437
Asta 170 (158-157)	200	minimi	188.00	-130.36973	-10.19589	-1.06642	0.65656	-4.62936	14.21
Asta 171 (4-9)	201	massimi	0.00	47.15676	0.18758	79.07076	-1.35776	-156.1781	0.977
Asta 171 (4-9)	201	massimi	630.00	47.15676	0.18758	-0.9956	0.52701	82.61036	-0.205
Asta 171 (4-9)	201	massimi	1260.00	47.15676	0.18758	-74.63742	1.73642	-159.86482	-1.232
Asta 171 (4-9)	201	minimi	0.00	43.62496	0.16071	76.86423	-1.55126	-160.36752	0.793
Asta 171 (4-9)	201	minimi	630.00	43.62496	0.16071	-1.13421	0.46665	80.59365	-0.22
Asta 171 (4-9)	201	minimi	1260.00	43.62496	0.16071	-76.53489	1.52829	-164.56956	-1.387
Asta 172 (14-4)	202	massimi	0.00	-1.65235	0.06325	27.54871	0.73643	-2.69284	0.623
Asta 172 (14-4)	202	massimi	237.00	-1.65235	0.06325	-8.97127	1.49797	16.99256	0.513
Asta 172 (14-4)	202	massimi	474.00	-1.65235	0.06325	-43.45531	1.90519	-45.9263	0.827
Asta 172 (14-4)	202	minimi	0.00	-1.66691	-0.13246	27.20265	0.6859	-5.01089	0.199
Asta 172 (14-4)	202	minimi	237.00	-1.66691	-0.13246	-10.20401	1.44931	16.60128	0.473
Asta 172 (14-4)	202	minimi	474.00	-1.66691	-0.13246	-45.29176	1.80678	-49.22792	0.323
Asta 173	203	massimi	0.00	-4.31716	-1.31514	59.14702	-4.59105	-72.86993	-3.718

(9-19)									
Asta 173 (9-19)	203	massimi	237.00	-4.31716	-1.31514	21.74035	-3.87817	16.58674	-0.601
Asta 173 (9-19)	203	massimi	474.00	-4.31716	-1.31514	-13.34739	-3.52071	26.07441	2.561
Asta 173 (9-19)	203	minimi	0.00	-4.5246	-1.3661	56.04087	-4.93618	-78.80681	-3.914
Asta 173 (9-19)	203	minimi	237.00	-4.5246	-1.3661	19.52089	-4.12411	16.26865	-0.677
Asta 173 (9-19)	203	minimi	474.00	-4.5246	-1.3661	-14.96315	-3.71689	21.26748	2.516
Asta 174 (29-14)	204	massimi	0.00	-1.38604	-0.76939	38.72354	-1.83734	-29.89454	-2.091
Asta 174 (29-14)	204	massimi	237.00	-1.38604	-0.76939	1.31687	-1.12447	16.35108	-0.267
Asta 174 (29-14)	204	massimi	474.00	-1.38604	-0.76939	-33.28122	-0.767	-22.5649	1.567
Asta 174 (29-14)	204	minimi	0.00	-1.41606	-0.81094	37.72279	-2.0557	-30.63883	-2.277
Asta 174 (29-14)	204	minimi	237.00	-1.41606	-0.81094	1.20282	-1.24363	15.83021	-0.355
Asta 174 (29-14)	204	minimi	474.00	-1.41606	-0.81094	-33.77087	-0.83641	-22.5848	1.556
Asta 175 (24-19)	205	massimi	0.00	-20.29926	-1.1762	65.25327	1.62367	-33.01093	-3.435
Asta 175 (24-19)	205	massimi	307.50	-20.29926	-1.1762	-3.45699	0.55384	58.51555	0.209
Asta 175 (24-19)	205	massimi	615.00	-20.29926	-1.1762	-65.14551	0.0825	-51.8612	4.075
Asta 175 (24-19)	205	minimi	0.00	-21.85378	-1.25724	60.91257	1.47044	-35.66563	-3.657
Asta 175 (24-19)	205	minimi	307.50	-21.85378	-1.25724	-3.53939	0.53105	54.47108	0.182
Asta 175 (24-19)	205	minimi	615.00	-21.85378	-1.25724	-68.92584	0.04302	-53.60365	3.798
Asta 176 (19-34)	206	massimi	0.00	-6.90858	0.23261	35.07	-1.60845	-30.48601	1.174
Asta 176 (19-34)	206	massimi	237.00	-6.90858	0.23261	4.93285	-1.60845	15.49125	0.669
Asta 176 (19-34)	206	massimi	474.00	-6.90858	0.23261	-25.2043	-1.60845	-8.53042	0.215
Asta 176 (19-34)	206	minimi	0.00	-7.36866	0.19128	34.31525	-1.73215	-31.91213	1.122
Asta 176 (19-34)	206	minimi	237.00	-7.36866	0.19128	4.1781	-1.73215	15.12862	0.622
Asta 176 (19-34)	206	minimi	474.00	-7.36866	0.19128	-25.95905	-1.73215	-10.68181	0.071
Asta 177 (39-24)	207	massimi	0.00	-19.56904	0.93823	6.23556	2.39795	11.90257	1.58
Asta 177 (39-24)	207	massimi	237.00	-19.56904	0.93823	-8.79291	1.60473	7.08063	-0.588
Asta 177 (39-24)	207	massimi	474.00	-19.56904	0.93823	-22.08378	1.18618	-30.28503	-2.718
Asta 177 (39-24)	207	minimi	0.00	-21.35688	0.89891	6.08657	2.26815	10.02065	1.543
Asta 177 (39-24)	207	minimi	237.00	-21.35688	0.89891	-9.82586	1.57163	6.64702	-0.644
Asta 177 (39-24)	207	minimi	474.00	-21.35688	0.89891	-23.75917	1.16578	-33.1085	-2.868
Asta 178 (44-29)	208	massimi	0.00	-2.10968	0.04676	38.52426	-0.85436	-31.12933	-0.73
Asta 178 (44-29)	208	massimi	237.00	-2.10968	0.04676	1.11759	-0.14149	14.47512	-0.838
Asta 178 (44-29)	208	massimi	474.00	-2.10968	0.04676	-33.46483	0.25099	-24.68988	-0.946
Asta 178 (44-29)	208	minimi	0.00	-2.12678	0.04555	37.53918	-0.9683	-32.04249	-0.803
Asta 178 (44-29)	208	minimi	237.00	-2.12678	0.04555	1.01921	-0.15624	14.16027	-0.914
Asta 178	208	minimi	474.00	-2.12678	0.04555	-33.97015	0.21598	-24.91314	-1.024

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Asta 179 (39-34)	209	massimi	0.00	-27.53957	-2.10235	103.17239	1.29431	-50.59526	-6.257
Asta 179 (39-34)	209	massimi	307.50	-27.53957	-2.10235	-9.21312	1.29431	89.26118	0.228
Asta 179 (39-34)	209	massimi	615.00	-27.53957	-2.10235	-114.78918	1.29431	-107.25592	7.184
Asta 179 (39-34)	209	minimi	0.00	-30.31479	-2.26225	96.36295	1.19802	-55.05441	-6.729
Asta 179 (39-34)	209	minimi	307.50	-30.31479	-2.26225	-9.30859	1.19802	83.39761	0.208
Asta 179 (39-34)	209	minimi	615.00	-30.31479	-2.26225	-121.78956	1.19802	-112.30223	6.673
Asta 180 (34-49)	210	massimi	0.00	-9.39445	1.37972	29.17342	-0.2342	-19.32484	3.94
Asta 180 (34-49)	210	massimi	237.00	-9.39445	1.37972	-0.96374	-0.2342	13.62997	0.67
Asta 180 (34-49)	210	massimi	474.00	-9.39445	1.37972	-31.10089	-0.2342	-24.59538	-2.413
Asta 180 (34-49)	210	minimi	0.00	-10.08701	1.27134	28.97356	-0.25655	-20.02727	3.613
Asta 180 (34-49)	210	minimi	237.00	-10.08701	1.27134	-1.16359	-0.25655	13.4012	0.60
Asta 180 (34-49)	210	minimi	474.00	-10.08701	1.27134	-31.30075	-0.25655	-24.84027	-2.60
Asta 181 (54-39)	211	massimi	0.00	-38.38444	1.4022	9.2291	-0.45197	11.81909	2.062
Asta 181 (54-39)	211	massimi	237.00	-38.38444	1.4022	-6.29908	-1.14849	14.44495	-1.142
Asta 181 (54-39)	211	massimi	474.00	-38.38444	1.4022	-19.58995	-1.53394	-17.67449	-4.20
Asta 181 (54-39)	211	minimi	0.00	-41.85549	1.29039	8.72939	-0.45314	10.81045	1.917
Asta 181 (54-39)	211	minimi	237.00	-41.85549	1.29039	-6.68333	-1.24636	13.34719	-1.261
Asta 181 (54-39)	211	minimi	474.00	-41.85549	1.29039	-20.61664	-1.68531	-18.29638	-4.585
Asta 182 (74-44)	212	massimi	0.00	-2.62135	0.59249	38.21976	-0.08443	-29.65416	1.029
Asta 182 (74-44)	212	massimi	237.00	-2.62135	0.59249	0.81309	0.69384	15.37569	-0.35
Asta 182 (74-44)	212	massimi	474.00	-2.62135	0.59249	-33.75363	1.10106	-24.58365	-1.729
Asta 182 (74-44)	212	minimi	0.00	-2.68737	0.58181	37.25038	-0.11823	-30.42026	0.957
Asta 182 (74-44)	212	minimi	237.00	-2.68737	0.58181	0.73041	0.62845	14.95097	-0.447
Asta 182 (74-44)	212	minimi	474.00	-2.68737	0.58181	-34.27465	0.98591	-24.73424	-1.852
Asta 183 (54-49)	213	massimi	0.00	-33.28572	-3.44888	101.16472	-0.48888	-46.62482	-10.815
Asta 183 (54-49)	213	massimi	307.50	-33.28572	-3.44888	-11.12229	-0.48888	87.21035	-0.209
Asta 183 (54-49)	213	massimi	615.00	-33.28572	-3.44888	-116.69836	-0.48888	-115.02693	11.319
Asta 183 (54-49)	213	minimi	0.00	-36.65101	-3.75513	94.45377	-0.54559	-50.93168	-11.775
Asta 183 (54-49)	213	minimi	307.50	-36.65101	-3.75513	-11.31625	-0.54559	81.49732	-0.228
Asta 183 (54-49)	213	minimi	615.00	-36.65101	-3.75513	-123.79723	-0.54559	-120.52662	10.396
Asta 184 (49-79)	214	massimi	0.00	-10.24756	2.4445	28.65789	0.66337	-17.32488	6.337
Asta 184 (49-79)	214	massimi	237.00	-10.24756	2.4445	-1.47927	0.66337	14.25389	0.544
Asta 184 (49-79)	214	massimi	474.00	-10.24756	2.4445	-31.61642	0.66337	-25.2137	-4.791
Asta 184 (49-79)	214	minimi	0.00	-11.00931	2.23498	28.39296	0.59993	-18.20198	5.803
Asta 184	214	minimi	237.00	-11.00931	2.23498	-1.7442	0.59993	14.00469	0.506

(49-79)									
Asta 184 (49-79)	214	minimi	474.00	-11.00931	2.23498	-31.88135	0.59993	-25.59238	-5.25
Asta 185 (84-54)	215	massimi	0.00	-84.51647	2.6715	13.27332	0.85948	10.58718	6.526
Asta 185 (84-54)	215	massimi	237.00	-84.51647	2.6715	-6.31196	0.06626	18.05858	0.194
Asta 185 (84-54)	215	massimi	474.00	-84.51647	2.6715	-23.06896	-0.34091	-18.48972	-5.594
Asta 185 (84-54)	215	minimi	0.00	-90.51694	2.42696	12.18263	0.74105	10.05629	5.91
Asta 185 (84-54)	215	minimi	237.00	-90.51694	2.42696	-6.63848	0.04454	16.66985	0.158
Asta 185 (84-54)	215	minimi	474.00	-90.51694	2.42696	-24.57117	-0.37269	-19.31573	-6.137
Asta 186 (104-74)	216	massimi	0.00	-3.38011	0.8598	44.52012	-1.66731	-42.63738	3.547
Asta 186 (104-74)	216	massimi	237.00	-3.38011	0.8598	7.11345	-0.95443	15.25686	1.509
Asta 186 (104-74)	216	massimi	474.00	-3.38011	0.8598	-27.97429	-0.59696	-9.92122	-0.053
Asta 186 (104-74)	216	minimi	0.00	-3.46953	0.60852	42.73385	-1.9234	-45.47094	2.832
Asta 186 (104-74)	216	minimi	237.00	-3.46953	0.60852	6.21388	-1.11133	14.96358	1.39
Asta 186 (104-74)	216	minimi	474.00	-3.46953	0.60852	-28.27016	-0.70411	-11.57522	-0.529
Asta 187 (84-79)	217	massimi	0.00	-44.13345	-3.80509	102.84001	-2.53975	-52.42703	-11.398
Asta 187 (84-79)	217	massimi	307.50	-44.13345	-3.80509	-9.59621	-2.53975	86.02479	0.341
Asta 187 (84-79)	217	massimi	615.00	-44.13345	-3.80509	-115.17228	-2.53975	-111.44375	13.007
Asta 187 (84-79)	217	minimi	0.00	-48.16382	-4.11915	95.97985	-2.76562	-57.26874	-12.326
Asta 187 (84-79)	217	minimi	307.50	-48.16382	-4.11915	-9.64097	-2.76562	80.38781	0.302
Asta 187 (84-79)	217	minimi	615.00	-48.16382	-4.11915	-122.12194	-2.76562	-116.56068	12.003
Asta 188 (79-109)	218	massimi	0.00	-10.9205	2.87989	18.67774	2.90644	8.51932	7.269
Asta 188 (79-109)	218	massimi	237.00	-10.9205	2.87989	-11.45942	2.90644	13.45309	0.444
Asta 188 (79-109)	218	massimi	474.00	-10.9205	2.87989	-41.59657	2.90644	-49.41826	-6.079
Asta 188 (79-109)	218	minimi	0.00	-11.73084	2.73475	17.1376	2.61062	4.89938	6.883
Asta 188 (79-109)	218	minimi	237.00	-11.73084	2.73475	-12.99956	2.61062	13.4229	0.402
Asta 188 (79-109)	218	minimi	474.00	-11.73084	2.73475	-43.13671	2.61062	-53.09858	-6.382
Asta 189 (114-84)	219	massimi	0.00	-94.90787	0.83104	16.13796	2.03699	-6.07793	-0.716
Asta 189 (114-84)	219	massimi	237.00	-94.90787	0.83104	3.47327	2.03699	17.08638	-2.685
Asta 189 (114-84)	219	massimi	474.00	-94.90787	0.83104	-8.84745	2.03699	10.31039	-4.655
Asta 189 (114-84)	219	minimi	0.00	-101.30041	0.81231	15.41542	1.94386	-6.15293	-1.032
Asta 189 (114-84)	219	minimi	237.00	-101.30041	0.81231	3.28398	1.94386	16.08087	-2.957
Asta 189 (114-84)	219	minimi	474.00	-101.30041	0.81231	-9.19141	1.94386	9.48815	-4.883
Asta 190 (119-104)	220	massimi	0.00	14.75813	-4.40322	-24.27545	14.72835	54.55625	-7.935
Asta 190 (119-104)	220	massimi	173.00	14.75813	-4.40322	-52.27385	15.38997	-21.02066	-0.267
Asta 190	220	massimi	346.00	14.75813	-4.40322	-77.78125	15.62384	-133.87744	8.115

(119-104)									
Asta 190 (119-104)	220	minimi	0.00	11.68863	-4.84526	-30.32318	13.89225	45.55361	-8.649
Asta 190 (119-104)	220	minimi	173.00	11.68863	-4.84526	-58.96451	14.47306	-23.08663	-0.317
Asta 190 (119-104)	220	minimi	346.00	11.68863	-4.84526	-84.76858	14.67836	-147.82479	7.30
Asta 191 (114-109)	221	massimi	0.00	-42.30279	-6.23331	90.46297	-5.16564	-48.44849	-20.625
Asta 191 (114-109)	221	massimi	307.50	-42.30279	-6.23331	-6.5659	-5.16564	76.21551	-1.457
Asta 191 (114-109)	221	massimi	615.00	-42.30279	-6.23331	-97.73621	-5.16564	-88.82877	19.284
Asta 191 (114-109)	221	minimi	0.00	-46.80043	-6.79046	84.60442	-5.61395	-52.69928	-22.477
Asta 191 (114-109)	221	minimi	307.50	-46.80043	-6.79046	-6.61596	-5.61395	71.53573	-1.597
Asta 191 (114-109)	221	minimi	615.00	-46.80043	-6.79046	-103.69488	-5.61395	-93.38741	17.71
Asta 192 (109-124)	222	massimi	0.00	31.50282	6.1036	85.59176	-4.3891	-125.04914	14.81
Asta 192 (109-124)	222	massimi	127.00	31.50282	6.1036	55.39244	-4.3891	-44.03192	7.058
Asta 192 (109-124)	222	massimi	254.00	31.50282	6.1036	25.19312	-4.3891	3.68921	-0.653
Asta 192 (109-124)	222	minimi	0.00	30.13544	5.56563	78.45698	-4.78189	-137.00759	13.484
Asta 192 (109-124)	222	minimi	127.00	30.13544	5.56563	49.1292	-4.78189	-47.48262	6.416
Asta 192 (109-124)	222	minimi	254.00	30.13544	5.56563	19.80141	-4.78189	-0.26098	-0.693
Asta 193 (144-114)	223	massimi	0.00	-47.90052	12.95211	28.66626	-1.02974	-34.45673	19.031
Asta 193 (144-114)	223	massimi	165.00	-47.90052	12.95211	22.63344	-1.02974	5.40922	-2.115
Asta 193 (144-114)	223	massimi	330.00	-47.90052	12.95211	16.60063	-1.02974	37.77733	-21.507
Asta 193 (144-114)	223	minimi	0.00	-51.38853	11.75273	27.04543	-1.13845	-36.91304	17.277
Asta 193 (144-114)	223	minimi	165.00	-51.38853	11.75273	21.01262	-1.13845	5.19117	-2.34
Asta 193 (144-114)	223	minimi	330.00	-51.38853	11.75273	14.97981	-1.13845	34.88492	-23.711
Asta 194 (124-119)	224	massimi	0.00	-1.1978	-3.21056	56.21019	-6.27901	-45.93672	-13.869
Asta 194 (124-119)	224	massimi	330.00	-1.1978	-3.21056	8.54416	-6.27901	60.90794	-3.274

Asta 194 (124-119)	224	massimi	660.00	-1.1978	-3.21056	-39.12187	-6.27901	10.45473	8.094
Asta 194 (124-119)	224	minimi	0.00	-5.78061	-3.54006	55.42723	-6.61316	-46.0062	-15.271
Asta 194 (124-119)	224	minimi	330.00	-5.78061	-3.54006	7.7612	-6.61316	58.25471	-3.589
Asta 194 (124-119)	224	minimi	660.00	-5.78061	-3.54006	-39.90482	-6.61316	5.21775	7.321
Asta 195 (119-129)	225	massimi	0.00	-23.09813	4.28542	97.07042	8.72657	-60.05413	16.452
Asta 195 (119-129)	225	massimi	330.00	-23.09813	4.28542	2.15428	7.66201	98.92557	2.31
Asta 195 (119-129)	225	massimi	660.00	-23.09813	4.28542	-85.15908	6.97565	-44.59594	-10.756
Asta 195 (119-129)	225	minimi	0.00	-25.06715	3.90024	91.04028	7.90019	-64.23285	14.985
Asta 195 (119-129)	225	minimi	330.00	-25.06715	3.90024	2.04293	6.96542	93.03944	2.114
Asta 195 (119-129)	225	minimi	660.00	-25.06715	3.90024	-90.71697	6.36272	-47.76522	-11.832
Asta 196 (124-139)	226	massimi	0.00	-15.60806	10.59184	47.91674	-8.43018	-9.74914	16.376
Asta 196 (124-139)	226	massimi	165.00	-15.60806	10.59184	2.65532	-8.43018	30.62547	-1.004
Asta 196 (124-139)	226	massimi	330.00	-15.60806	10.59184	-40.89118	-8.43018	-2.33394	-16.863
Asta 196 (124-139)	226	minimi	0.00	-17.28174	9.61126	44.1743	-8.87417	-11.09648	14.854
Asta 196 (124-139)	226	minimi	165.00	-17.28174	9.61126	1.64156	-8.87417	28.04894	-1.101
Asta 196 (124-139)	226	minimi	330.00	-17.28174	9.61126	-42.60611	-8.87417	-4.33199	-18.578
Asta 197 (129-134)	227	massimi	0.00	-13.49297	-2.41514	19.76746	6.3767	-9.02365	-9.782
Asta 197 (129-134)	227	massimi	330.00	-13.49297	-2.41514	-2.05425	5.31214	18.92264	-1.812
Asta 197 (129-134)	227	massimi	660.00	-13.49297	-2.41514	-21.12666	4.62579	-20.60684	6.808
Asta 197 (129-134)	227	minimi	0.00	-14.4363	-2.66253	18.81349	6.01463	-9.29827	-10.764
Asta 197 (129-134)	227	minimi	330.00	-14.4363	-2.66253	-2.32306	5.07986	18.13538	-1.978
Asta 197 (129-134)	227	minimi	660.00	-14.4363	-2.66253	-22.3687	4.47716	-22.38111	6.158
Asta 198 (139-134)	228	massimi	0.00	-8.36888	4.23792	32.35172	5.18601	1.18888	1.58
Asta 198 (139-134)	228	massimi	165.00	-8.36888	4.23792	-7.94251	5.18601	19.52564	-4.939

134)									
Asta 198 (139-134)	228	massimi	330.00	-8.36888	4.23792	-48.06212	5.18601	-27.61655	-11.452
Asta 198 (139-134)	228	minimi	0.00	-9.21702	3.94746	32.17711	5.06135	-1.40627	1.574
Asta 198 (139-134)	228	minimi	165.00	-9.21702	3.94746	-10.12533	5.06135	18.58727	-5.412
Asta 198 (139-134)	228	minimi	330.00	-9.21702	3.94746	-52.60238	5.06135	-32.22472	-12.405
Asta 199 (134-159)	229	massimi	0.00	-14.14576	-1.58909	57.7945	21.08012	-11.89969	-5.192
Asta 199 (134-159)	229	massimi	244.50	-14.14576	-1.58909	-11.98304	1.94249	39.25977	-1.306
Asta 199 (134-159)	229	massimi	489.00	-14.14576	-1.58909	-68.50291	-7.42169	-64.66774	2.622
Asta 199 (134-159)	229	minimi	0.00	-15.30558	-1.65526	51.68899	17.77727	-13.62809	-5.472
Asta 199 (134-159)	229	minimi	244.50	-15.30558	-1.65526	-13.11822	1.64577	35.18359	-1.425
Asta 199 (134-159)	229	minimi	489.00	-15.30558	-1.65526	-75.54562	-8.81456	-70.86066	2.579
Asta 200 (139-154)	230	massimi	0.00	-7.6793	-4.53377	55.09179	-1.66916	-18.17745	-17.128
Asta 200 (139-154)	230	massimi	244.50	-7.6793	-4.53377	-5.30345	-1.66916	41.60354	-6.043
Asta 200 (139-154)	230	massimi	489.00	-7.6793	-4.53377	-62.76482	-1.66916	-44.11131	5.493
Asta 200 (139-154)	230	minimi	0.00	-8.3339	-4.95201	52.15792	-1.75499	-18.74695	-18.722
Asta 200 (139-154)	230	minimi	244.50	-8.3339	-4.95201	-5.72534	-1.75499	39.10215	-6.614
Asta 200 (139-154)	230	minimi	489.00	-8.3339	-4.95201	-66.54247	-1.75499	-46.74387	5.042
Asta 201 (149-144)	231	massimi	0.00	-9.80419	-0.16199	17.79794	-2.01678	-23.58372	4.615
Asta 201 (149-144)	231	massimi	165.00	-9.80419	-0.16199	8.98076	-2.01678	-3.05249	4.893
Asta 201 (149-144)	231	massimi	330.00	-9.80419	-0.16199	0.16357	-2.01678	4.00274	5.171
Asta 201 (149-144)	231	minimi	0.00	-10.39791	-0.16855	16.66614	-2.22488	-25.63376	4.147
Asta 201 (149-144)	231	minimi	165.00	-10.39791	-0.16855	8.22021	-2.22488	-3.54133	4.414
Asta 201 (149-144)	231	minimi	330.00	-10.39791	-0.16855	-0.22573	-2.22488	3.54296	4.682
Asta 202 (154-144)	232	massimi	0.00	3.37993	-2.49053	48.46904	-5.25159	-26.66585	4.163
Asta 202	232	massimi	190.00	3.37993	-2.49053	1.51348	-5.25159	19.61209	9.366

(154-144)									
Asta 202 (154-144)	232	massimi	380.00	3.37993	-2.49053	-43.13952	-5.25159	-20.91462	14.568
Asta 202 (154-144)	232	minimi	0.00	2.97255	-2.73833	46.16649	-5.64077	-27.58136	3.823
Asta 202 (154-144)	232	minimi	190.00	2.97255	-2.73833	1.20828	-5.64077	18.63012	8.555
Asta 202 (154-144)	232	minimi	380.00	2.97255	-2.73833	-46.05248	-5.64077	-22.98989	13.287
Asta 203 (159-149)	233	massimi	0.00	-4.81264	-0.52267	48.32411	-6.57768	-49.01144	1.922
Asta 203 (159-149)	233	massimi	190.00	-4.81264	-0.52267	12.183	-7.15372	3.74562	3.139
Asta 203 (159-149)	233	massimi	380.00	-4.81264	-0.52267	-20.95339	-7.43657	-5.92191	4.375
Asta 203 (159-149)	233	minimi	0.00	-5.1097	-0.65042	44.7567	-7.40068	-53.70435	1.903
Asta 203 (159-149)	233	minimi	190.00	-5.1097	-0.65042	11.0582	-8.0567	3.47318	2.916
Asta 203 (159-149)	233	minimi	380.00	-5.1097	-0.65042	-22.03673	-8.37881	-6.19208	3.909
Asta 204 (4-3)	234	massimi	0.00	-345.75674	44.8959	15.21608	0.97925	-23.9632	60.627
Asta 204 (4-3)	234	massimi	66.00	-349.61774	44.8959	15.21608	0.97925	-14.5335	30.996
Asta 204 (4-3)	234	massimi	132.00	-353.47874	44.8959	15.21608	0.97925	-5.10381	4.326
Asta 204 (4-3)	234	minimi	0.00	-357.21082	40.07442	14.28742	0.72671	-25.58111	57.224
Asta 204 (4-3)	234	minimi	66.00	-361.07182	40.07442	14.28742	0.72671	-15.5385	30.775
Asta 204 (4-3)	234	minimi	132.00	-364.93282	40.07442	14.28742	0.72671	-5.49589	1.365
Asta 205 (9-8)	235	massimi	0.00	-364.19067	-46.28203	25.48513	2.00777	-40.58613	-63.844
Asta 205 (9-8)	235	massimi	66.00	-368.05167	-46.28203	25.48513	2.00777	-24.9732	-33.298
Asta 205 (9-8)	235	massimi	132.00	-371.91267	-46.28203	25.48513	2.00777	-9.36027	0.302
Asta 205 (9-8)	235	minimi	0.00	-377.53747	-52.01527	23.65596	1.9252	-43.8048	-68.358
Asta 205 (9-8)	235	minimi	66.00	-381.39847	-52.01527	23.65596	1.9252	-26.98461	-34.028
Asta 205 (9-8)	235	minimi	132.00	-385.25947	-52.01527	23.65596	1.9252	-10.16443	-2.752
Asta 206 (14-13)	236	massimi	0.00	-403.18419	56.14413	6.44564	2.26211	-9.36643	31.916
Asta 206 (14-13)	236	massimi	66.00	-407.04519	56.14413	6.44564	2.26211	-5.60512	-1.721
Asta 206 (14-13)	236	massimi	132.00	-410.90619	56.14413	6.44564	2.26211	-1.84381	-35.359
Asta 206 (14-13)	236	minimi	0.00	-418.2796	50.96609	5.69896	1.89428	-10.5827	29.581
Asta 206 (14-13)	236	minimi	66.00	-422.1406	50.96609	5.69896	1.89428	-6.32858	-7.475
Asta 206 (14-13)	236	minimi	132.00	-426.0016	50.96609	5.69896	1.89428	-2.07446	-44.53
Asta 207 (19-18)	237	massimi	0.00	-457.82341	-29.37616	20.64475	3.95352	-30.36523	-1.642

Asta 207 (19-18)	237	massimi	66.00	-461.68441	-29.37616	20.64475	3.95352	-18.15694	19.936
Asta 207 (19-18)	237	massimi	132.00	-465.54541	-29.37616	20.64475	3.95352	-5.94865	41.513
Asta 207 (19-18)	237	minimi	0.00	-475.91127	-32.69285	18.49741	3.64113	-33.87171	-3.413
Asta 207 (19-18)	237	minimi	66.00	-479.77227	-32.69285	18.49741	3.64113	-20.24618	15.976
Asta 207 (19-18)	237	minimi	132.00	-483.63327	-32.69285	18.49741	3.64113	-6.62064	35.364
Asta 208 (24-23)	238	massimi	0.00	-82.99634	-19.40035	20.09964	0.7898	-28.81458	-34.197
Asta 208 (24-23)	238	massimi	66.00	-84.33697	-19.40035	20.09964	0.7898	-16.67531	-21.393
Asta 208 (24-23)	238	massimi	132.00	-85.67759	-19.40035	20.09964	0.7898	-4.53604	-8.589
Asta 208 (24-23)	238	minimi	0.00	-89.01244	-20.91555	18.39283	0.71694	-31.48483	-36.831
Asta 208 (24-23)	238	minimi	66.00	-90.35307	-20.91555	18.39283	0.71694	-18.21907	-23.027
Asta 208 (24-23)	238	minimi	132.00	-91.69369	-20.91555	18.39283	0.71694	-4.9533	-9.223
Asta 209 (29-28)	239	massimi	0.00	-417.49483	51.57796	-1.26197	1.49059	2.09589	31.691
Asta 209 (29-28)	239	massimi	66.00	-421.35583	51.57796	-1.26197	1.49059	1.17701	0.783
Asta 209 (29-28)	239	massimi	132.00	-425.21683	51.57796	-1.26197	1.49059	0.25813	-30.126
Asta 209 (29-28)	239	minimi	0.00	-434.49953	46.83125	-1.39224	1.36093	1.89386	29.237
Asta 209 (29-28)	239	minimi	66.00	-438.36053	46.83125	-1.39224	1.36093	1.06096	-4.804
Asta 209 (29-28)	239	minimi	132.00	-442.22153	46.83125	-1.39224	1.36093	0.22806	-38.846
Asta 210 (34-33)	240	massimi	0.00	-519.4162	-12.91498	6.06688	2.20535	-9.6052	26.557
Asta 210 (34-33)	240	massimi	66.00	-523.2772	-12.91498	6.06688	2.20535	-6.03679	35.932
Asta 210 (34-33)	240	massimi	132.00	-527.1382	-12.91498	6.06688	2.20535	-2.46838	45.306
Asta 210 (34-33)	240	minimi	0.00	-540.89034	-14.20363	5.40668	1.98848	-10.75761	23.088
Asta 210 (34-33)	240	minimi	66.00	-544.75134	-14.20363	5.40668	1.98848	-6.75346	31.612
Asta 210 (34-33)	240	minimi	132.00	-548.61234	-14.20363	5.40668	1.98848	-2.74932	40.136
Asta 211 (39-38)	241	massimi	0.00	-122.18846	-27.1481	18.23636	0.56468	-26.49711	-46.793
Asta 211 (39-38)	241	massimi	66.00	-123.52908	-27.1481	18.23636	0.56468	-15.4665	-28.875
Asta 211 (39-38)	241	massimi	132.00	-124.86971	-27.1481	18.23636	0.56468	-4.43588	-10.958
Asta 211 (39-38)	241	minimi	0.00	-129.87559	-29.85082	16.71305	0.51414	-28.90465	-50.971
Asta 211 (39-38)	241	minimi	66.00	-131.21622	-29.85082	16.71305	0.51414	-16.86865	-31.27
Asta 211 (39-38)	241	minimi	132.00	-132.55684	-29.85082	16.71305	0.51414	-4.83264	-11.568
Asta 212 (44-43)	242	massimi	0.00	-417.31027	50.53748	-1.84026	-0.69087	3.17264	32.00
Asta 212 (44-43)	242	massimi	66.00	-421.17127	50.53748	-1.84026	-0.69087	1.81529	1.72
Asta 212 (44-43)	242	massimi	132.00	-425.03227	50.53748	-1.84026	-0.69087	0.45794	-28.561
Asta 212 (44-43)	242	minimi	0.00	-434.28891	45.87971	-2.05659	-0.7436	2.82953	29.584
Asta 212 (44-43)	242	minimi	66.00	-438.14991	45.87971	-2.05659	-0.7436	1.61496	-3.771
Asta 212 (44-43)	242	minimi	132.00	-442.01091	45.87971	-2.05659	-0.7436	0.40039	-37.126

Asta 213 (49-48)	243	massimi	0.00	-527.93961	-7.77501	-0.22478	0.38784	-0.19008	34.934
Asta 213 (49-48)	243	massimi	66.00	-531.80061	-7.77501	-0.22478	0.38784	-0.47574	40.634
Asta 213 (49-48)	243	massimi	132.00	-535.66161	-7.77501	-0.22478	0.38784	-0.74606	46.333
Asta 213 (49-48)	243	minimi	0.00	-550.75474	-8.63555	-0.43281	0.36094	-0.44935	30.877
Asta 213 (49-48)	243	minimi	66.00	-554.61574	-8.63555	-0.43281	0.36094	-0.5977	36.009
Asta 213 (49-48)	243	minimi	132.00	-558.47674	-8.63555	-0.43281	0.36094	-0.76139	41.14
Asta 214 (54-53)	244	massimi	0.00	-126.25211	-32.14915	44.90632	3.57577	-29.78904	-46.736
Asta 214 (54-53)	244	massimi	66.00	-127.59274	-32.14915	44.90632	3.57577	-1.61817	-25.517
Asta 214 (54-53)	244	massimi	132.00	-128.93336	-32.14915	44.90632	3.57577	27.59593	-4.299
Asta 214 (54-53)	244	minimi	0.00	-134.96499	-35.3817	42.68314	3.30389	-31.68041	-51.012
Asta 214 (54-53)	244	minimi	66.00	-136.30561	-35.3817	42.68314	3.30389	-2.04224	-27.66
Asta 214 (54-53)	244	minimi	132.00	-137.64624	-35.3817	42.68314	3.30389	26.55271	-4.308
Asta 215 (74-73)	245	massimi	0.00	-409.63885	53.04899	-5.47788	-1.20828	9.90865	34.87
Asta 215 (74-73)	245	massimi	66.00	-413.49985	53.04899	-5.47788	-1.20828	5.78522	3.174
Asta 215 (74-73)	245	massimi	132.00	-417.36085	53.04899	-5.47788	-1.20828	1.66179	-28.522
Asta 215 (74-73)	245	minimi	0.00	-425.53393	48.02461	-6.24762	-1.4954	8.69461	33.086
Asta 215 (74-73)	245	minimi	66.00	-429.39492	48.02461	-6.24762	-1.4954	5.07921	-1.927
Asta 215 (74-73)	245	minimi	132.00	-433.25592	48.02461	-6.24762	-1.4954	1.46382	-36.939
Asta 216 (79-78)	246	massimi	0.00	-512.04003	-2.42322	-8.38997	-1.08289	14.50367	46.021
Asta 216 (79-78)	246	massimi	66.00	-515.90103	-2.42322	-8.38997	-1.08289	8.18525	48.009
Asta 216 (79-78)	246	massimi	132.00	-519.76203	-2.42322	-8.38997	-1.08289	1.86683	49.997
Asta 216 (79-78)	246	minimi	0.00	-532.97177	-3.01206	-9.57337	-1.14035	12.67577	41.423
Asta 216 (79-78)	246	minimi	66.00	-536.83277	-3.01206	-9.57337	-1.14035	7.13839	43.023
Asta 216 (79-78)	246	minimi	132.00	-540.69377	-3.01206	-9.57337	-1.14035	1.60101	44.622
Asta 217 (84-83)	247	massimi	0.00	-117.00993	-45.72937	6.66433	0.91735	-3.04241	-53.63
Asta 217 (84-83)	247	massimi	66.00	-118.35055	-45.72937	6.66433	0.91735	1.35604	-23.448
Asta 217 (84-83)	247	massimi	132.00	-119.69118	-45.72937	6.66433	0.91735	5.7545	7.584
Asta 217 (84-83)	247	minimi	0.00	-125.30474	-50.02301	6.58631	0.83398	-3.10789	-58.446
Asta 217 (84-83)	247	minimi	66.00	-126.64536	-50.02301	6.58631	0.83398	1.23907	-25.431
Asta 217 (84-83)	247	minimi	132.00	-127.98599	-50.02301	6.58631	0.83398	5.58604	6.733
Asta 218 (104-103)	248	massimi	0.00	-355.32391	67.36739	-8.2053	1.12176	14.38726	74.87
Asta 218 (104-103)	248	massimi	66.00	-359.18491	67.36739	-8.2053	1.12176	8.73623	30.408
Asta 218 (104-103)	248	massimi	132.00	-363.04591	67.36739	-8.2053	1.12176	3.08521	-13.121
Asta 218	248	minimi	0.00	-373.21986	60.3072	-8.56216	1.04204	13.61026	66.484

(104-103)									
Asta 218 (104-103)	248	minimi	66.00	-377.08086	60.3072	-8.56216	1.04204	8.19476	26.682
Asta 218 (104-103)	248	minimi	132.00	-380.94186	60.3072	-8.56216	1.04204	2.77926	-14.055
Asta 219 (109-108)	249	massimi	0.00	-460.49857	-9.00639	-15.41158	-1.45807	25.03679	15.751
Asta 219 (109-108)	249	massimi	66.00	-464.35957	-9.00639	-15.41158	-1.45807	14.17279	21.695
Asta 219 (109-108)	249	massimi	132.00	-468.22057	-9.00639	-15.41158	-1.45807	3.30879	27.877
Asta 219 (109-108)	249	minimi	0.00	-484.85845	-10.78184	-16.46061	-1.54954	23.41308	13.645
Asta 219 (109-108)	249	minimi	66.00	-488.71945	-10.78184	-16.46061	-1.54954	13.24143	20.761
Asta 219 (109-108)	249	minimi	132.00	-492.58045	-10.78184	-16.46061	-1.54954	3.06979	27.64
Asta 220 (114-113)	250	massimi	0.00	-85.04003	-31.3811	-53.24065	-0.16632	38.31631	-45.366
Asta 220 (114-113)	250	massimi	66.00	-86.38065	-31.3811	-53.24065	-0.16632	0.89276	-24.655
Asta 220 (114-113)	250	massimi	132.00	-87.72128	-31.3811	-53.24065	-0.16632	-34.48045	-3.881
Asta 220 (114-113)	250	minimi	0.00	-90.0003	-34.66063	-56.70234	-0.20123	35.79721	-49.633
Asta 220 (114-113)	250	minimi	66.00	-91.34093	-34.66063	-56.70234	-0.20123	0.65838	-26.757
Asta 220 (114-113)	250	minimi	132.00	-92.68155	-34.66063	-56.70234	-0.20123	-36.53078	-3.943
Asta 221 (119-118)	251	massimi	0.00	-105.8691	21.75466	23.76196	0.29108	-39.88287	35.375
Asta 221 (119-118)	251	massimi	66.00	-107.20973	21.75466	23.76196	0.29108	-25.42526	21.017
Asta 221 (119-118)	251	massimi	132.00	-108.55035	21.75466	23.76196	0.29108	-10.96765	6.659
Asta 221 (119-118)	251	minimi	0.00	-106.66964	19.85617	21.90547	0.27054	-42.89134	32.436
Asta 221 (119-118)	251	minimi	66.00	-108.01027	19.85617	21.90547	0.27054	-27.20845	19.331
Asta 221 (119-118)	251	minimi	132.00	-109.35089	19.85617	21.90547	0.27054	-11.52555	6.226
Asta 222 (124-123)	252	massimi	0.00	-78.93381	-23.08936	7.63808	-1.63799	-11.63905	-37.315
Asta 222 (124-123)	252	massimi	66.00	-80.27443	-23.08936	7.63808	-1.63799	-7.13002	-22.076
Asta 222 (124-123)	252	massimi	132.00	-81.61506	-23.08936	7.63808	-1.63799	-2.62099	-6.837

Asta 222 (124-123)	252	minimi	0.00	-79.80012	-25.32421	6.83187	-1.79773	-12.92775	-40.752
Asta 222 (124-123)	252	minimi	66.00	-81.14074	-25.32421	6.83187	-1.79773	-7.88661	-24.038
Asta 222 (124-123)	252	minimi	132.00	-82.48137	-25.32421	6.83187	-1.79773	-2.84547	-7.324
Asta 223 (129-128)	253	massimi	0.00	-103.97258	10.15088	-20.68299	-0.97422	41.38852	16.274
Asta 223 (129-128)	253	massimi	66.00	-105.3132	10.15088	-20.68299	-0.97422	26.60147	9.574
Asta 223 (129-128)	253	massimi	132.00	-106.65383	10.15088	-20.68299	-0.97422	11.81441	2.875
Asta 223 (129-128)	253	minimi	0.00	-110.48443	9.59273	-22.40463	-1.06751	38.58131	15.386
Asta 223 (129-128)	253	minimi	66.00	-111.82506	9.59273	-22.40463	-1.06751	24.93054	9.055
Asta 223 (129-128)	253	minimi	132.00	-113.16568	9.59273	-22.40463	-1.06751	11.27976	2.724
Asta 224 (134-133)	254	massimi	0.00	-120.87777	-3.29467	-9.19493	-0.1031	15.77039	-3.567
Asta 224 (134-133)	254	massimi	66.00	-122.21839	-3.29467	-9.19493	-0.1031	9.02236	-1.344
Asta 224 (134-133)	254	massimi	132.00	-123.55902	-3.29467	-9.19493	-0.1031	2.27433	0.88
Asta 224 (134-133)	254	minimi	0.00	-132.76557	-3.36864	-10.22429	-0.12474	14.31644	-3.646
Asta 224 (134-133)	254	minimi	66.00	-134.1062	-3.36864	-10.22429	-0.12474	8.24779	-1.471
Asta 224 (134-133)	254	minimi	132.00	-135.44682	-3.36864	-10.22429	-0.12474	2.17913	0.703
Asta 225 (139-138)	255	massimi	0.00	-125.22621	2.0155	-2.70541	-1.30962	5.2778	4.687
Asta 225 (139-138)	255	massimi	66.00	-126.56683	2.0155	-2.70541	-1.30962	3.22341	3.38
Asta 225 (139-138)	255	massimi	132.00	-127.90746	2.0155	-2.70541	-1.30962	1.16901	2.073
Asta 225 (139-138)	255	minimi	0.00	-130.04962	1.97998	-3.11272	-1.43592	4.59488	4.686
Asta 225 (139-138)	255	minimi	66.00	-131.39024	1.97998	-3.11272	-1.43592	2.80931	3.356
Asta 225 (139-138)	255	minimi	132.00	-132.73087	1.97998	-3.11272	-1.43592	1.02374	2.025
Asta 226 (144-143)	256	massimi	0.00	-70.41069	-8.94217	-40.58686	0.70805	35.27501	-20.036
Asta 226 (144-143)	256	massimi	66.00	-71.75131	-8.94217	-40.58686	0.70805	6.4139	-14.134
Asta 226 (144-143)	256	massimi	132.00	-73.09194	-8.94217	-40.58686	0.70805	-20.82656	-8.233

143)									
Asta 226 (144-143)	256	minimi	0.00	-74.55516	-9.74073	-43.72896	0.69132	32.7481	-21.795
Asta 226 (144-143)	256	minimi	66.00	-75.89579	-9.74073	-43.72896	0.69132	5.96077	-15.366
Asta 226 (144-143)	256	minimi	132.00	-77.23641	-9.74073	-43.72896	0.69132	-22.44722	-8.937
Asta 227 (149-148)	257	massimi	0.00	-37.61953	-4.65065	-10.32686	-0.23855	17.25495	-7.939
Asta 227 (149-148)	257	massimi	66.00	-38.96016	-4.65065	-10.32686	-0.23855	9.96305	-4.869
Asta 227 (149-148)	257	massimi	132.00	-40.30078	-4.65065	-10.32686	-0.23855	2.67116	-1.80
Asta 227 (149-148)	257	minimi	0.00	-39.83467	-4.94114	-11.04833	-0.2397	16.14716	-8.417
Asta 227 (149-148)	257	minimi	66.00	-41.1753	-4.94114	-11.04833	-0.2397	9.33143	-5.156
Asta 227 (149-148)	257	minimi	132.00	-42.51592	-4.94114	-11.04833	-0.2397	2.5157	-1.895
Asta 228 (154-153)	258	massimi	0.00	-108.93131	-10.65185	-2.04325	1.33072	3.88578	-17.445
Asta 228 (154-153)	258	massimi	66.00	-110.27193	-10.65185	-2.04325	1.33072	2.42476	-10.415
Asta 228 (154-153)	258	massimi	132.00	-111.61256	-10.65185	-2.04325	1.33072	0.96373	-3.385
Asta 228 (154-153)	258	minimi	0.00	-115.01151	-11.71383	-2.21367	1.21959	3.58242	-19.163
Asta 228 (154-153)	258	minimi	66.00	-116.35214	-11.71383	-2.21367	1.21959	2.23388	-11.431
Asta 228 (154-153)	258	minimi	132.00	-117.69276	-11.71383	-2.21367	1.21959	0.88534	-3.70
Asta 229 (159-158)	259	massimi	0.00	-113.25961	-9.33312	-1.00484	0.71915	-0.844	-15.656
Asta 229 (159-158)	259	massimi	66.00	-114.60023	-9.33312	-1.00484	0.71915	-1.54784	-9.496
Asta 229 (159-158)	259	massimi	132.00	-115.94086	-9.33312	-1.00484	0.71915	-2.25168	-3.337
Asta 229 (159-158)	259	minimi	0.00	-123.86973	-10.19589	-1.06642	0.65656	-1.41388	-17.156
Asta 229 (159-158)	259	minimi	66.00	-125.21036	-10.19589	-1.06642	0.65656	-2.07707	-10.427
Asta 229 (159-158)	259	minimi	132.00	-126.55098	-10.19589	-1.06642	0.65656	-2.74027	-3.698
Asta 230 (5-10)	260	massimi	0.00	-89.86682	1.09584	166.4497	1.61151	-175.80936	6.594
Asta 230 (5-10)	260	massimi	630.00	-89.86682	1.09584	-1.70964	1.61151	337.87105	-0.31
Asta 230 (5-10)	260	massimi	1260.00	-89.86682	1.09584	-164.59173	1.61151	-197.35083	-6.383
Asta 230	260	minimi	0.00	-91.67691	0.95975	161.17244	1.43399	-180.32905	5.71

(5-10)									
Asta 230 (5-10)	260	minimi	630.00	-91.67691	0.95975	-1.94173	1.43399	326.49847	-0.336
Asta 230 (5-10)	260	minimi	1260.00	-91.67691	0.95975	-170.33317	1.43399	-204.7949	-7.214
Asta 231 (15-5)	261	massimi	0.00	-13.74097	-2.69889	2.83448	-3.40563	5.54652	-5.887
Asta 231 (15-5)	261	massimi	237.00	-13.74097	-2.69889	-4.09777	-3.40563	2.90211	0.557
Asta 231 (15-5)	261	massimi	474.00	-13.74097	-2.69889	-11.03002	-3.40563	-15.0262	7.723
Asta 231 (15-5)	261	minimi	0.00	-14.84715	-3.0236	2.35034	-3.57807	4.39722	-6.609
Asta 231 (15-5)	261	minimi	237.00	-14.84715	-3.0236	-4.58191	-3.57807	2.90023	0.51
Asta 231 (15-5)	261	minimi	474.00	-14.84715	-3.0236	-11.51416	-3.57807	-16.17173	6.906
Asta 232 (5-165)	262	massimi	0.00	0.00	0.00	37.91944	0.00	-23.57533	0.00
Asta 232 (5-165)	262	massimi	65.00	0.00	0.00	18.95972	0.00	-5.89383	0.00
Asta 232 (5-165)	262	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 232 (5-165)	262	minimi	0.00	0.00	0.00	36.26974	0.00	-24.64764	0.00
Asta 232 (5-165)	262	minimi	65.00	0.00	0.00	18.13487	0.00	-6.16191	0.00
Asta 232 (5-165)	262	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 233 (20-10)	263	massimi	0.00	-18.21835	-2.25683	-1.82141	1.97257	17.41752	-4.875
Asta 233 (20-10)	263	massimi	237.00	-18.21835	-2.25683	-8.75366	1.97257	2.66595	0.539
Asta 233 (20-10)	263	massimi	474.00	-18.21835	-2.25683	-15.68592	1.97257	-26.29495	6.694
Asta 233 (20-10)	263	minimi	0.00	-19.67711	-2.59723	-2.77344	1.95341	15.19742	-5.617
Asta 233 (20-10)	263	minimi	237.00	-19.67711	-2.59723	-9.70569	1.95341	2.62974	0.474
Asta 233 (20-10)	263	minimi	474.00	-19.67711	-2.59723	-16.63795	1.95341	-28.58747	5.823
Asta 234 (10-175)	264	massimi	0.00	0.00	0.00	37.91944	0.00	-23.57533	0.00
Asta 234 (10-175)	264	massimi	65.00	0.00	0.00	18.95972	0.00	-5.89383	0.00
Asta 234 (10-175)	264	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 234 (10-175)	264	minimi	0.00	0.00	0.00	36.26974	0.00	-24.64764	0.00
Asta 234 (10-175)	264	minimi	65.00	0.00	0.00	18.13487	0.00	-6.16191	0.00
Asta 234 (10-175)	264	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 235 (15-20)	265	massimi	0.00	-51.44701	1.8394	274.03343	2.18366	-219.18681	11.304
Asta 235 (15-20)	265	massimi	630.00	-51.44701	1.8394	-1.65185	2.18366	624.1362	-0.284
Asta 235 (15-20)	265	massimi	1260.00	-51.44701	1.8394	-264.76252	2.18366	-240.00007	-10.536
Asta 235 (15-20)	265	minimi	0.00	-56.41309	1.62702	261.45883	1.92611	-233.40874	9.965
Asta 235 (15-20)	265	minimi	630.00	-56.41309	1.62702	-1.79694	1.92611	599.20518	-0.285
Asta 235 (15-20)	265	minimi	1260.00	-56.41309	1.62702	-277.62731	1.92611	-256.0502	-11.872
Asta 236 (30-15)	266	massimi	0.00	-21.31779	-2.34717	7.90358	-0.62928	-6.91513	-6.086
Asta 236 (30-15)	266	massimi	237.00	-21.31779	-2.34717	0.97133	-0.62928	3.46756	-0.524
Asta 236	266	massimi	474.00	-21.31779	-2.34717	-5.96092	-0.62928	-2.4451	5.589

(30-15)									
Asta 236 (30-15)	266	minimi	0.00	-23.39849	-2.61408	7.81653	-0.7108	-7.04922	-6.802
Asta 236 (30-15)	266	minimi	237.00	-23.39849	-2.61408	0.88428	-0.7108	3.39534	-0.606
Asta 236 (30-15)	266	minimi	474.00	-23.39849	-2.61408	-6.04797	-0.7108	-2.72363	5.039
Asta 237 (15-170)	267	massimi	0.00	0.00	0.00	57.99638	0.00	-35.78119	0.00
Asta 237 (15-170)	267	massimi	65.00	0.00	0.00	28.99819	0.00	-8.9453	0.00
Asta 237 (15-170)	267	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 237 (15-170)	267	minimi	0.00	0.00	0.00	55.04798	0.00	-37.69765	0.00
Asta 237 (15-170)	267	minimi	65.00	0.00	0.00	27.52399	0.00	-9.42441	0.00
Asta 237 (15-170)	267	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 238 (35-20)	268	massimi	0.00	-31.32111	-2.033	5.41909	-0.35674	0.04504	-5.475
Asta 238 (35-20)	268	massimi	237.00	-31.32111	-2.033	-1.51316	-0.35674	3.94509	-0.657
Asta 238 (35-20)	268	massimi	474.00	-31.32111	-2.033	-8.44542	-0.35674	-7.97431	4.696
Asta 238 (35-20)	268	minimi	0.00	-34.38116	-2.28814	5.11172	-0.41774	-0.80191	-6.15
Asta 238 (35-20)	268	minimi	237.00	-34.38116	-2.28814	-1.82053	-0.41774	3.82661	-0.727
Asta 238 (35-20)	268	minimi	474.00	-34.38116	-2.28814	-8.75279	-0.41774	-8.58429	4.161
Asta 239 (20-180)	269	massimi	0.00	0.00	0.00	57.99638	0.00	-35.78119	0.00
Asta 239 (20-180)	269	massimi	65.00	0.00	0.00	28.99819	0.00	-8.9453	0.00
Asta 239 (20-180)	269	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 239 (20-180)	269	minimi	0.00	0.00	0.00	55.04798	0.00	-37.69765	0.00
Asta 239 (20-180)	269	minimi	65.00	0.00	0.00	27.52399	0.00	-9.42441	0.00
Asta 239 (20-180)	269	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 240 (30-35)	270	massimi	0.00	-43.73278	0.92109	272.87011	1.18054	-203.49704	5.692
Asta 240 (30-35)	270	massimi	630.00	-43.73278	0.92109	-2.79039	1.18054	633.29429	-0.094
Asta 240 (30-35)	270	massimi	1260.00	-43.73278	0.92109	-265.90107	1.18054	-238.656	-5.22
Asta 240 (30-35)	270	minimi	0.00	-48.19747	0.81356	260.32028	1.02018	-216.92176	5.031
Asta 240 (30-35)	270	minimi	630.00	-48.19747	0.81356	-2.96026	1.02018	607.7221	-0.111
Asta 240 (30-35)	270	minimi	1260.00	-48.19747	0.81356	-278.79063	1.02018	-254.22101	-5.914
Asta 241 (45-30)	271	massimi	0.00	-20.17576	-0.06365	7.79374	-0.10536	-7.20726	-1.141
Asta 241 (45-30)	271	massimi	237.00	-20.17576	-0.06365	0.86149	-0.10536	2.86014	-0.99
Asta 241 (45-30)	271	massimi	474.00	-20.17576	-0.06365	-6.07076	-0.10536	-3.31284	-0.839
Asta 241 (45-30)	271	minimi	0.00	-22.18661	-0.09129	7.70709	-0.11938	-7.39631	-1.304
Asta 241 (45-30)	271	minimi	237.00	-22.18661	-0.09129	0.77484	-0.11938	2.84382	-1.088
Asta 241 (45-30)	271	minimi	474.00	-22.18661	-0.09129	-6.15741	-0.11938	-3.53453	-0.871
Asta 242 (30-190)	272	massimi	0.00	0.00	0.00	57.99638	0.00	-35.78119	0.00
Asta 242	272	massimi	65.00	0.00	0.00	28.99819	0.00	-8.9453	0.00

(30-190)									
Asta 242 (30-190)	272	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 242 (30-190)	272	minimi	0.00	0.00	0.00	55.04798	0.00	-37.69765	0.00
Asta 242 (30-190)	272	minimi	65.00	0.00	0.00	27.52399	0.00	-9.42441	0.00
Asta 242 (30-190)	272	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 243 (50-35)	273	massimi	0.00	-31.326	0.20649	7.80532	-0.10729	-6.91108	-0.419
Asta 243 (50-35)	273	massimi	237.00	-31.326	0.20649	0.87306	-0.10729	3.19094	-0.908
Asta 243 (50-35)	273	massimi	474.00	-31.326	0.20649	-6.05919	-0.10729	-2.95462	-1.398
Asta 243 (50-35)	273	minimi	0.00	-34.54636	0.20247	7.70308	-0.12208	-7.09294	-0.531
Asta 243 (50-35)	273	minimi	237.00	-34.54636	0.20247	0.77083	-0.12208	3.13051	-1.01
Asta 243 (50-35)	273	minimi	474.00	-34.54636	0.20247	-6.16142	-0.12208	-3.25733	-1.49
Asta 244 (35-185)	274	massimi	0.00	0.00	0.00	57.99638	0.00	-35.78119	0.00
Asta 244 (35-185)	274	massimi	65.00	0.00	0.00	28.99819	0.00	-8.9453	0.00
Asta 244 (35-185)	274	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 244 (35-185)	274	minimi	0.00	0.00	0.00	55.04798	0.00	-37.69765	0.00
Asta 244 (35-185)	274	minimi	65.00	0.00	0.00	27.52399	0.00	-9.42441	0.00
Asta 244 (35-185)	274	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 245 (45-50)	275	massimi	0.00	-43.76445	-0.49023	272.49588	0.48565	-201.41157	-3.30
Asta 245 (45-50)	275	massimi	630.00	-43.76445	-0.49023	-3.13101	0.48565	633.20997	-0.211
Asta 245 (45-50)	275	massimi	1260.00	-43.76445	-0.49023	-266.24168	0.48565	-240.8623	3.055
Asta 245 (45-50)	275	minimi	0.00	-48.26728	-0.52007	259.97966	0.41794	-214.6484	-3.498
Asta 245 (45-50)	275	minimi	630.00	-48.26728	-0.52007	-3.33449	0.41794	607.66169	-0.221
Asta 245 (45-50)	275	minimi	1260.00	-48.26728	-0.52007	-279.16486	0.41794	-256.66301	2.877
Asta 246 (75-45)	276	massimi	0.00	-17.33361	1.63318	7.62551	0.20229	-6.59776	3.245
Asta 246 (75-45)	276	massimi	237.00	-17.33361	1.63318	0.69325	0.20229	3.11528	-0.541
Asta 246 (75-45)	276	massimi	474.00	-17.33361	1.63318	-6.239	0.20229	-3.45643	-4.132
Asta 246 (75-45)	276	minimi	0.00	-19.04935	1.51536	7.54678	0.1885	-6.74245	3.051
Asta 246 (75-45)	276	minimi	237.00	-19.04935	1.51536	0.61453	0.1885	3.07339	-0.626
Asta 246 (75-45)	276	minimi	474.00	-19.04935	1.51536	-6.31772	0.1885	-3.68489	-4.497
Asta 247 (45-195)	277	massimi	0.00	0.00	0.00	57.99638	0.00	-35.78119	0.00
Asta 247 (45-195)	277	massimi	65.00	0.00	0.00	28.99819	0.00	-8.9453	0.00
Asta 247 (45-195)	277	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 247 (45-195)	277	minimi	0.00	0.00	0.00	55.04798	0.00	-37.69765	0.00
Asta 247 (45-195)	277	minimi	65.00	0.00	0.00	27.52399	0.00	-9.42441	0.00
Asta 247 (45-195)	277	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 248	278	massimi	0.00	-27.28947	2.11842	8.53225	0.004	-8.20468	4.461

(80-50)									
Asta 248 (80-50)	278	massimi	237.00	-27.28947	2.11842	1.60	0.004	3.41278	-0.502
Asta 248 (80-50)	278	massimi	474.00	-27.28947	2.11842	-5.33225	0.004	-1.00994	-5.116
Asta 248 (80-50)	278	minimi	0.00	-29.95618	1.94658	8.33977	-0.0021	-8.59394	4.111
Asta 248 (80-50)	278	minimi	237.00	-29.95618	1.94658	1.40752	-0.0021	3.34587	-0.56
Asta 248 (80-50)	278	minimi	474.00	-29.95618	1.94658	-5.52473	-0.0021	-1.53302	-5.58
Asta 249 (50-200)	279	massimi	0.00	0.00	0.00	57.99638	0.00	-35.78119	0.00
Asta 249 (50-200)	279	massimi	65.00	0.00	0.00	28.99819	0.00	-8.9453	0.00
Asta 249 (50-200)	279	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 249 (50-200)	279	minimi	0.00	0.00	0.00	55.04798	0.00	-37.69765	0.00
Asta 249 (50-200)	279	minimi	65.00	0.00	0.00	27.52399	0.00	-9.42441	0.00
Asta 249 (50-200)	279	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 250 (75-80)	280	massimi	0.00	-47.07439	-1.20987	273.30161	-0.13929	-211.88329	-7.889
Asta 250 (75-80)	280	massimi	630.00	-47.07439	-1.20987	-2.41422	-0.13929	627.01375	-0.266
Asta 250 (75-80)	280	massimi	1260.00	-47.07439	-1.20987	-265.52489	-0.13929	-242.30247	8.11
Asta 250 (75-80)	280	minimi	0.00	-51.71921	-1.33766	260.69645	-0.15444	-225.9207	-8.744
Asta 250 (75-80)	280	minimi	630.00	-51.71921	-1.33766	-2.52876	-0.15444	601.70574	-0.317
Asta 250 (75-80)	280	minimi	1260.00	-51.71921	-1.33766	-278.35914	-0.15444	-257.78313	7.356
Asta 251 (105-75)	281	massimi	0.00	-9.8871	2.69566	10.41312	2.85881	-12.60282	7.268
Asta 251 (105-75)	281	massimi	237.00	-9.8871	2.69566	3.48087	2.85881	2.88817	0.879
Asta 251 (105-75)	281	massimi	474.00	-9.8871	2.69566	-3.45138	2.85881	2.91425	-4.965
Asta 251 (105-75)	281	minimi	0.00	-10.68191	2.43887	10.00241	2.73872	-13.58509	6.595
Asta 251 (105-75)	281	minimi	237.00	-10.68191	2.43887	3.07016	2.73872	2.8793	0.815
Asta 251 (105-75)	281	minimi	474.00	-10.68191	2.43887	-3.86209	2.73872	1.94972	-5.509
Asta 252 (75-205)	282	massimi	0.00	0.00	0.00	57.99638	0.00	-35.78119	0.00
Asta 252 (75-205)	282	massimi	65.00	0.00	0.00	28.99819	0.00	-8.9453	0.00
Asta 252 (75-205)	282	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 252 (75-205)	282	minimi	0.00	0.00	0.00	55.04798	0.00	-37.69765	0.00
Asta 252 (75-205)	282	minimi	65.00	0.00	0.00	27.52399	0.00	-9.42441	0.00
Asta 252 (75-205)	282	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 253 (110-80)	283	massimi	0.00	-15.63133	2.22634	13.88639	-2.05002	-20.27016	5.275
Asta 253 (110-80)	283	massimi	237.00	-15.63133	2.22634	6.95413	-2.05002	2.7246	0.00
Asta 253 (110-80)	283	massimi	474.00	-15.63133	2.22634	0.02188	-2.05002	10.97242	-4.656
Asta 253 (110-80)	283	minimi	0.00	-16.87979	1.96453	13.16855	-2.11214	-21.99017	4.656
Asta 253 (110-80)	283	minimi	237.00	-16.87979	1.96453	6.2363	-2.11214	2.70584	-0.002
Asta 253	283	minimi	474.00	-16.87979	1.96453	-0.69595	-2.11214	9.28991	-5.278

(110-80)									
Asta 254 (80-210)	284	massimi	0.00	0.00	0.00	57.99638	0.00	-35.78119	0.00
Asta 254 (80-210)	284	massimi	65.00	0.00	0.00	28.99819	0.00	-8.9453	0.00
Asta 254 (80-210)	284	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 254 (80-210)	284	minimi	0.00	0.00	0.00	55.04798	0.00	-37.69765	0.00
Asta 254 (80-210)	284	minimi	65.00	0.00	0.00	27.52399	0.00	-9.42441	0.00
Asta 254 (80-210)	284	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 255 (105-110)	285	massimi	0.00	-78.11271	-0.65869	178.6336	0.22507	-174.56509	-3.248
Asta 255 (105-110)	285	massimi	630.00	-78.11271	-0.65869	-2.36692	0.22507	372.2591	0.946
Asta 255 (105-110)	285	massimi	1260.00	-78.11271	-0.65869	-176.30551	0.22507	-204.3883	5.633
Asta 255 (105-110)	285	minimi	0.00	-82.61147	-0.74403	171.57166	0.18917	-182.51342	-3.742
Asta 255 (105-110)	285	minimi	630.00	-82.61147	-0.74403	-2.51534	0.18917	358.42985	0.901
Asta 255 (105-110)	285	minimi	1260.00	-82.61147	-0.74403	-183.66427	0.18917	-214.20667	5.051
Asta 256 (105-215)	286	massimi	0.00	0.00	0.00	37.91944	0.00	-23.57533	0.00
Asta 256 (105-215)	286	massimi	65.00	0.00	0.00	18.95972	0.00	-5.89383	0.00
Asta 256 (105-215)	286	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 256 (105-215)	286	minimi	0.00	0.00	0.00	36.26974	0.00	-24.64764	0.00
Asta 256 (105-215)	286	minimi	65.00	0.00	0.00	18.13487	0.00	-6.16191	0.00
Asta 256 (105-215)	286	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 257 (110-220)	287	massimi	0.00	0.00	0.00	37.91944	0.00	-23.57533	0.00
Asta 257 (110-220)	287	massimi	65.00	0.00	0.00	18.95972	0.00	-5.89383	0.00
Asta 257 (110-220)	287	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 257 (110-220)	287	minimi	0.00	0.00	0.00	36.26974	0.00	-24.64764	0.00
Asta 257 (110-220)	287	minimi	65.00	0.00	0.00	18.13487	0.00	-6.16191	0.00
Asta 257 (110-220)	287	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 258 (5-4)	288	massimi	0.00	-208.4722	88.65331	13.75131	1.19587	-16.46018	159.259
Asta 258 (5-4)	288	massimi	145.00	-216.9547	88.65331	13.75131	1.19587	2.15615	30.712

Asta 258 (5-4)	288	massimi	290.00	-225.4372	88.65331	13.75131	1.19587	22.09555	-97.147
Asta 258 (5-4)	288	minimi	0.00	-215.8833	87.16793	12.78122	1.12922	-17.78325	155.64
Asta 258 (5-4)	288	minimi	145.00	-224.3658	87.16793	12.78122	1.12922	2.07258	29.246
Asta 258 (5-4)	288	minimi	290.00	-232.8483	87.16793	12.78122	1.12922	20.60534	-97.835
Asta 259 (10-9)	289	massimi	0.00	-216.54738	-92.12365	20.77295	-0.51953	-24.86096	-175.729
Asta 259 (10-9)	289	massimi	145.00	-225.02988	-92.12365	20.77295	-0.51953	3.14482	-42.15
Asta 259 (10-9)	289	massimi	290.00	-233.51238	-92.12365	20.77295	-0.51953	33.26559	91.43
Asta 259 (10-9)	289	minimi	0.00	-224.89055	-94.27414	19.17809	-0.56004	-26.97595	-182.12
Asta 259 (10-9)	289	minimi	145.00	-233.37305	-94.27414	19.17809	-0.56004	2.94727	-45.422
Asta 259 (10-9)	289	minimi	290.00	-241.85555	-94.27414	19.17809	-0.56004	30.75551	91.275
Asta 260 (15-14)	290	massimi	0.00	-325.38926	56.82261	6.71194	0.96111	-9.04696	192.844
Asta 260 (15-14)	290	massimi	145.00	-333.87176	56.82261	6.71194	0.96111	-0.41974	110.451
Asta 260 (15-14)	290	massimi	290.00	-342.35426	56.82261	6.71194	0.96111	9.28935	30.413
Asta 260 (15-14)	290	minimi	0.00	-340.34107	51.79872	5.94981	0.89388	-10.17528	180.629
Asta 260 (15-14)	290	minimi	145.00	-348.82357	51.79872	5.94981	0.89388	-0.44297	105.521
Asta 260 (15-14)	290	minimi	290.00	-357.30607	51.79872	5.94981	0.89388	8.20748	28.058
Asta 261 (20-19)	291	massimi	0.00	-326.4345	-51.22318	16.54345	-1.49981	-21.24562	-201.909
Asta 261 (20-19)	291	massimi	145.00	-334.917	-51.22318	16.54345	-1.49981	0.16985	-127.635
Asta 261 (20-19)	291	massimi	290.00	-343.3995	-51.22318	16.54345	-1.49981	24.15785	-53.261
Asta 261 (20-19)	291	minimi	0.00	-341.60304	-56.10401	14.72979	-1.55987	-23.81816	-215.962
Asta 261 (20-19)	291	minimi	145.00	-350.08554	-56.10401	14.72979	-1.55987	0.11257	-134.611
Asta 261 (20-19)	291	minimi	290.00	-358.56804	-56.10401	14.72979	-1.55987	21.47076	-53.362
Asta 262 (30-29)	292	massimi	0.00	-329.34221	50.72025	-1.95559	0.23812	2.55584	178.633
Asta 262 (30-29)	292	massimi	145.00	-337.82471	50.72025	-1.95559	0.23812	-0.47519	105.088
Asta 262 (30-29)	292	massimi	290.00	-346.30721	50.72025	-1.95559	0.23812	-3.3108	33.745
Asta 262 (30-29)	292	minimi	0.00	-344.84084	46.0163	-2.13298	0.21654	2.36042	167.192
Asta 262 (30-29)	292	minimi	145.00	-353.32334	46.0163	-2.13298	0.21654	-0.53698	100.468
Asta 262 (30-29)	292	minimi	290.00	-361.80584	46.0163	-2.13298	0.21654	-3.62979	31.544
Asta 263 (35-34)	293	massimi	0.00	-332.52955	-41.49328	1.08629	-1.14242	-1.43524	-203.124
Asta 263 (35-34)	293	massimi	145.00	-341.01205	-41.49328	1.08629	-1.14242	-0.244	-142.959
Asta 263 (35-34)	293	massimi	290.00	-349.49455	-41.49328	1.08629	-1.14242	1.33111	-82.794
Asta 263 (35-34)	293	minimi	0.00	-347.95791	-45.70686	0.81845	-1.254	-1.81912	-216.819
Asta 263 (35-34)	293	minimi	145.00	-356.44041	-45.70686	0.81845	-1.254	-0.24848	-150.544
Asta 263 (35-34)	293	minimi	290.00	-364.92291	-45.70686	0.81845	-1.254	0.93828	-84.269
Asta 264 (45-44)	294	massimi	0.00	-329.05245	49.99175	-2.35192	0.30795	3.45423	176.629

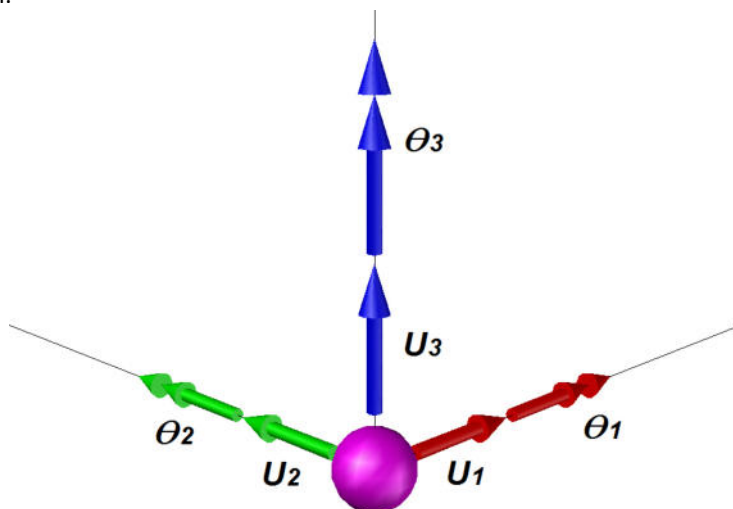
Asta 264 (45-44)	294	massimi	145.00	-337.53495	49.99175	-2.35192	0.30795	-0.30586	104.141
Asta 264 (45-44)	294	massimi	290.00	-346.01745	49.99175	-2.35192	0.30795	-3.71614	33.841
Asta 264 (45-44)	294	minimi	0.00	-344.525	45.34346	-2.61718	0.30512	3.10442	165.337
Asta 264 (45-44)	294	minimi	145.00	-353.0075	45.34346	-2.61718	0.30512	-0.34068	99.589
Asta 264 (45-44)	294	minimi	290.00	-361.49	45.34346	-2.61718	0.30512	-4.1356	31.653
Asta 265 (50-49)	295	massimi	0.00	-334.51748	-42.02436	-4.52677	-1.81938	6.56865	-205.186
Asta 265 (50-49)	295	massimi	145.00	-342.99998	-42.02436	-4.52677	-1.81938	-0.76781	-144.251
Asta 265 (50-49)	295	massimi	290.00	-351.48248	-42.02436	-4.52677	-1.81938	-7.33163	-83.316
Asta 265 (50-49)	295	minimi	0.00	-350.29881	-46.35133	-5.11025	-1.99449	5.796	-219.091
Asta 265 (50-49)	295	minimi	145.00	-358.78131	-46.35133	-5.11025	-1.99449	-0.84121	-151.882
Asta 265 (50-49)	295	minimi	290.00	-367.26381	-46.35133	-5.11025	-1.99449	-8.25106	-84.673
Asta 266 (75-74)	296	massimi	0.00	-327.15331	52.78169	-6.23664	-0.00973	9.79599	185.567
Asta 266 (75-74)	296	massimi	145.00	-335.63581	52.78169	-6.23664	-0.00973	-0.3412	109.033
Asta 266 (75-74)	296	massimi	290.00	-344.11831	52.78169	-6.23664	-0.00973	-9.38433	34.358
Asta 266 (75-74)	296	minimi	0.00	-342.37487	47.9979	-7.02978	-0.12702	8.70192	173.552
Asta 266 (75-74)	296	minimi	145.00	-350.85737	47.9979	-7.02978	-0.12702	-0.3972	103.955
Asta 266 (75-74)	296	minimi	290.00	-359.33987	47.9979	-7.02978	-0.12702	-10.59038	32.50
Asta 267 (80-79)	297	massimi	0.00	-329.6086	-47.05644	-12.868	-1.4114	19.42707	-204.473
Asta 267 (80-79)	297	massimi	145.00	-338.0911	-47.05644	-12.868	-1.4114	-1.31845	-136.242
Asta 267 (80-79)	297	massimi	290.00	-346.5736	-47.05644	-12.868	-1.4114	-19.97705	-68.01
Asta 267 (80-79)	297	minimi	0.00	-344.86588	-51.61128	-14.41404	-1.6289	17.34016	-217.969
Asta 267 (80-79)	297	minimi	145.00	-353.34838	-51.61128	-14.41404	-1.6289	-1.47329	-143.133
Asta 267 (80-79)	297	minimi	290.00	-361.83088	-51.61128	-14.41404	-1.6289	-22.37365	-68.297
Asta 268 (105-104)	298	massimi	0.00	-217.84381	79.91581	-9.22842	-3.3468	13.36002	160.725
Asta 268 (105-104)	298	massimi	145.00	-226.32631	79.91581	-9.22842	-3.3468	-0.96755	44.847
Asta 268 (105-104)	298	massimi	290.00	-234.80881	79.91581	-9.22842	-3.3468	-14.34876	-65.726
Asta 268 (105-104)	298	minimi	0.00	-226.96616	75.67384	-9.93788	-3.52646	12.41365	153.728
Asta 268 (105-104)	298	minimi	145.00	-235.44866	75.67384	-9.93788	-3.52646	-1.04991	44.001
Asta 268 (105-104)	298	minimi	290.00	-243.93116	75.67384	-9.93788	-3.52646	-15.45985	-71.031
Asta 269 (110-109)	299	massimi	0.00	-225.7438	-80.07724	-16.29002	0.39529	22.21524	-182.863
Asta 269 (110-109)	299	massimi	145.00	-234.2263	-80.07724	-16.29002	0.39529	-3.1612	-66.751

Asta 269 (110-109)	299	massimi	290.00	-242.7088	-80.07724	-16.29002	0.39529	-26.78172	54.358
Asta 269 (110-109)	299	minimi	0.00	-235.4701	-84.83782	-17.62382	0.35838	20.45933	-191.671
Asta 269 (110-109)	299	minimi	145.00	-243.9526	-84.83782	-17.62382	0.35838	-3.3393	-68.656
Asta 269 (110-109)	299	minimi	290.00	-252.4351	-84.83782	-17.62382	0.35838	-28.89385	49.361

1.4.2 Stato limite salvaguardia della vita (SLV) - Struttura

1.4.2.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	5.942395	3.746894	-0.377931	0.008253515126204	0.01310014704928	0.000188211168036
1	minimi	-5.939482	-3.720593	-13.137798	-0.00798652089992	-0.012911419398605	-0.000191732041393
2	massimi	3.000222	1.951502	-0.377931	0.008253515126059	0.013100147048979	0.00018821116795
2	minimi	-3.039772	-1.865128	-13.137798	-0.00798652089978	-0.012911419398311	-0.000191732041306
3	massimi	2.820066	2.125737	15.959063	0.007908970814844	0.012459763817202	0.000157904125514
3	minimi	-2.862387	-2.036436	-29.198667	-0.007746954342621	-0.012092877526437	-0.000160556219354
4	massimi	2.815902	1.747844	2.791442	0.007942433046086	0.012413984553931	0.00016318703205
4	minimi	-2.858592	-1.665755	-16.479144	-0.007781966095161	-0.012422527567266	-0.000166325800219
5	massimi	3.14584	1.752071	13.003811	0.007947233877007	0.012382640330783	0.000156636784249
5	minimi	-3.181724	-1.670084	-26.126881	-0.007593684765858	-0.012388703969805	-0.000159868443604
6	massimi	3.141637	2.121419	12.842488	0.008005511704174	0.012491145421434	0.000151352542188
6	minimi	-3.177891	-2.032017	-25.51746	-0.007653512114322	-0.012126738504983	-0.000154097527215
7	massimi	51.842538	49.217966	-0.364054	0.014573182509247	0.017501044192292	0.002271607281659
7	minimi	-51.374792	-49.335968	-13.494633	-0.014159134504849	-0.017060213542114	-0.002246678373679
8	massimi	91.213435	83.31343	-0.364972	0.022495672942765	0.025417288977172	0.00382689181589
8	minimi	-90.440043	-83.487218	-13.669661	-0.022583316056874	-0.025362034609283	-0.003783469423071
9	massimi	120.059942	104.807122	-0.363992	0.014957777606731	0.024068482150355	0.004887277708176
9	minimi	-119.043433	-105.177787	-13.790653	-0.01444018065977	-0.023671111771872	-0.004830870528128
10	massimi	167.587626	151.746128	-0.343851	0.01740050633988	0.005075905412061	0.007046687480867
10	minimi	-165.879061	-152.521602	-13.976811	-0.017066459821081	-0.003912965568128	-0.006875369494559
11	massimi	5.990891	3.249477	-0.35143	0.00705236563294	0.013065494721588	0.000155215301609
11	minimi	-5.89519	-3.139719	-13.915413	-0.006772589538275	-0.012975920672222	-0.00014437537268
12	massimi	3.056557	1.73177	-0.35143	0.007052365632817	0.013065494721291	0.000155215301538
12	minimi	-2.98101	-1.559061	-13.915413	-0.006772589538156	-0.012975920671925	-0.000144375372614
13	massimi	2.92063	1.679995	4.145219	0.006770933724172	0.01257164416252	0.000134208521685

13	minimi	-2.835308	-1.519809	-18.245725	-0.006603160082118	-0.012286876325716	-0.000124753336769
14	massimi	2.921618	1.769135	13.619296	0.006771427922549	0.012236300638826	0.000131549002444
14	minimi	-2.837036	-1.586623	-27.932478	-0.006604389714552	-0.012350991323917	-0.00012306693385
15	massimi	3.152147	1.768442	13.842455	0.006805930600044	0.012241477843244	0.000125442286846
15	minimi	-3.08664	-1.585738	-27.563975	-0.006434345085254	-0.012353570453347	-0.000116782783698
16	massimi	3.153178	1.679767	9.20923	0.006806294429947	0.012566496636683	0.000128168369884
16	minimi	-3.088411	-1.519773	-22.718073	-0.006435444349214	-0.012284326874868	-0.000118535750412
17	massimi	51.851979	41.419564	-0.330443	0.012277569552258	0.017220940581172	0.002327988840636
17	minimi	-51.365351	-41.096606	-14.29941	-0.011769115284393	-0.017310724928935	-0.002190296814702
18	massimi	91.307095	68.477501	-0.325538	0.016580760827045	0.025594679791296	0.00392544168261
18	minimi	-90.346383	-67.979739	-14.488161	-0.016837858803073	-0.025197055634363	-0.003684919556351
19	massimi	120.20688	83.850868	-0.3204	0.012577175764932	0.023876914719738	0.005015435110119
19	minimi	-118.896494	-83.551518	-14.618857	-0.011803863331219	-0.023841603547032	-0.004702713126185
20	massimi	167.512724	130.553844	-0.320852	0.017672549117684	0.004000456860021	0.007089829515353
20	minimi	-165.953963	-130.893671	-14.789659	-0.017156887625568	-0.0049974272717775	-0.006832227460074
21	massimi	5.085109	3.776037	-3.394197	0.006505405208922	0.010598976830209	0.000233488906012
21	minimi	-5.10901	-3.758741	-13.364182	-0.006377589228966	-0.010286138379271	-0.000230172950663
22	massimi	2.702023	2.345158	-3.394197	0.006505405208808	0.010598976829973	0.000233488905905
22	minimi	-2.796312	-2.299103	-13.364182	-0.006377589228854	-0.010286138379047	-0.000230172950557
23	massimi	2.52116	2.519265	11.48616	0.006182976175041	0.010099636604251	0.000194876200274
23	minimi	-2.611693	-2.477137	-27.581357	-0.006180928816407	-0.00956395789676	-0.000191865067952
24	massimi	2.517386	2.142492	-0.078068	0.006201904679682	0.010025009857174	0.000201298788874
24	minimi	-2.608115	-2.093235	-16.759903	-0.006202425836264	-0.009966692107792	-0.000198547152539
25	massimi	2.880162	2.143963	2.907203	0.006322282446624	0.010000562253035	0.000195331866959
25	minimi	-2.976756	-2.094946	-19.474872	-0.006075690550604	-0.009941057572902	-0.000192801685833
26	massimi	2.875331	2.515846	7.502978	0.006355527520541	0.010124098497888	0.000188906218464
26	minimi	-2.972123	-2.473477	-23.327873	-0.006111504139737	-0.009589606721148	-0.000186116541351
27	massimi	42.099575	49.219832	-3.469336	0.010475111438478	0.014606108693688	0.002305202732886
27	minimi	-41.03619	-49.334102	-13.729449	-0.010265730133979	-0.013673427417893	-0.002213082922452
28	massimi	74.772179	83.283073	-3.511617	0.024411763524147	0.020523102428066	0.003888986276538
28	minimi	-73.178611	-83.517576	-13.889764	-0.024395001568214	-0.020658852497702	-0.003721374962424
29	massimi	98.765313	104.808523	-3.539649	0.010899567562049	0.020188855885482	0.004969382111607
29	minimi	-97.3707	-105.176386	-14.000456	-0.010665838547092	-0.020239734492323	-0.004748766124696
30	massimi	138.029631	151.760869	-3.578373	0.013437673021447	0.004512057059933	0.007118489100992
30	minimi	-133.821171	-152.506861	-14.210759	-0.013166398477103	-0.001952591260555	-0.006803567744435
31	massimi	5.410907	3.283142	-8.940173	0.005727403022625	0.010635435934923	0.000224311460405
31	minimi	-5.313717	-3.184324	-11.846918	-0.005538005359527	-0.010380894110923	-0.000213943611471
32	massimi	3.020043	2.04256	-8.940173	0.005727403022525	0.010635435934694	0.000224311460302
32	minimi	-2.980124	-1.901127	-11.846918	-0.005538005359429	-0.010380894110701	-0.000213943611373
33	massimi	2.84686	1.993796	3.051137	0.005437420358795	0.010234386479184	0.0001918207952
33	minimi	-2.797429	-1.864194	-23.19438	-0.005409265104897	-0.009689643036047	-0.000182806328186
34	massimi	2.847739	2.079351	2.513558	0.005437681137156	0.009959483099363	0.000189347618306
34	minimi	-2.798912	-1.928313	-23.261162	-0.005411615760043	-0.010020919728496	-0.000181130049311
35	massimi	3.176893	2.078559	1.203412	0.005588718980981	0.009964004253397	0.000183070893148
35	minimi	-3.146414	-1.927419	-21.550483	-0.005250156799377	-0.010023682085617	-0.000174759568585
36	massimi	3.177967	1.993903	5.252622	0.005589022386283	0.010229870928748	0.000185534965784
36	minimi	-3.148093	-1.864402	-24.995333	-0.005252550081463	-0.009686886282523	-0.000176426743202
37	massimi	42.107811	41.422521	-9.172202	0.008686659485474	0.010826577022245	0.002358446935138
37	minimi	-41.027954	-41.09365	-12.179251	-0.008245186020049	-0.010540375391086	-0.0021598387202
38	massimi	75.246677	68.433376	-9.280998	0.018154608206636	0.022233638012389	0.003994973488362
38	minimi	-72.704114	-68.023864	-12.299038	-0.018355671091984	-0.021096046015727	-0.003615387750599
39	massimi	100.152383	83.854649	-9.355655	0.00929141509129	0.019507805494435	0.005112401649302
39	minimi	-95.983631	-83.547737	-12.38135	-0.008774086528579	-0.018246685473103	-0.004605746587002
40	massimi	137.991552	130.5734	-9.486749	0.013530223643286	0.00265186635998	0.007151636681816
40	minimi	-133.859251	-130.874114	-12.499898	-0.013018492872374	-0.004501919261691	-0.006770420293611
41	massimi	5.426054	4.943713	4.011828	0.008826733288669	0.009864309768199	0.000419630815605
41	minimi	-5.295375	-4.66678	-25.239474	-0.009025275314403	-0.009713426788622	-0.000383915186604
42	massimi	3.953641	3.590853	4.011828	0.008826733288533	0.009864309768176	0.000419630815474
42	minimi	-3.845594	-3.343701	-25.239474	-0.009025275314264	-0.009713426788599	-0.000383915186484
43	massimi	3.725578	3.482669	-1.074392	0.0086759907359	0.009871818759817	0.00039495379747
43	minimi	-3.596458	-3.257493	-19.734947	-0.009007308691824	-0.00958749653219	-0.000361963502941
44	massimi	3.72811	3.676262	10.186705	0.0086755712013737	0.009556129031508	0.00038691702092
44	minimi	-3.599374	-3.408773	-31.189137	-0.009007288588788	-0.009543284892984	-0.000354738073295
45	massimi	4.154557	3.675576	10.522881	0.008708981383772	0.009562967525754	0.000375008758309
45	minimi	-4.067917	-3.40792	-31.779399	-0.00876829540473	-0.009550649233093	-0.000342475117809
46	massimi	4.157161	3.483328	4.920449	0.00870850480437	0.009865006508098	0.000383131366934
46	minimi	-4.070905	-3.258319	-25.983874	-0.008768218444454	-0.009580158434606	-0.00034978637953
47	massimi	42.109364	43.397451	4.090286	0.004197271309606	0.001492986376726	0.00235939956057
47	minimi	-41.026401	-41.370592	-25.65438	-0.003189893955289	-0.001982272971855	-0.002158886094768

48	massimi	75.810311	71.30505	4.103473	0.019543404367646	0.028768395286299	0.004017089364759
48	minimi	-72.140479	-67.141915	-25.779444	-0.021485784369757	-0.026980093086596	-0.003593271874202
49	massimi	100.128202	87.007249	4.114149	0.005700319306949	0.003369499686125	0.005149376829569
49	minimi	-96.007812	-81.643282	-25.865317	-0.004917951485152	-0.005191430815696	-0.004568771406735
50	massimi	4.05818	3.790571	-4.796658	0.006291289473198	0.008682170768555	0.000264646791568
50	minimi	-4.058447	-3.784397	-12.355948	-0.006264935421192	-0.008217479277206	-0.000262237725077
51	massimi	2.106932	2.382814	-4.796658	0.006291289473088	0.00868217076836	0.000264646791447
51	minimi	-2.211755	-2.370709	-12.355948	-0.006264935421082	-0.008217479277027	-0.000262237724957
52	massimi	2.04277	2.57689	7.503215	0.005989328602282	0.008304606281357	0.0002199648052
52	minimi	-2.144667	-2.567517	-23.693831	-0.006087547365957	-0.007618959756363	-0.000217794704899
53	massimi	2.041097	2.173318	-0.383621	0.005993321197429	0.008180545177531	0.000226527191801
53	minimi	-2.143046	-2.158672	-16.910314	-0.00609535524392	-0.007983866980057	-0.000224425292858
54	massimi	2.258189	2.173622	0.843217	0.006118649041738	0.008167101508339	0.00022306885698
54	minimi	-2.36449	-2.159245	-18.08142	-0.005965878294979	-0.00797017858063	-0.00022045118012
55	massimi	2.254427	2.574879	5.569329	0.006137992593871	0.008318048359099	0.00021574102686
55	minimi	-2.360779	-2.565238	-21.704212	-0.005989037129928	-0.007632646564339	-0.000213817119923
56	massimi	34.220868	49.223299	-4.913878	0.010449847579572	0.011770781573835	0.002287448278184
56	minimi	-32.639494	-49.330636	-12.689794	-0.010407870765349	-0.010652666355475	-0.002230837377154
57	massimi	60.188317	83.271023	-4.974054	0.024451061562559	0.016733504704843	0.003866592957438
57	minimi	-57.586693	-83.529626	-12.838063	-0.024354549768997	-0.016551569067834	-0.003743768281524
58	massimi	79.310594	104.809711	-5.014618	0.010813676807598	0.016465185649827	0.004943731717504
58	minimi	-76.464495	-105.175198	-12.94033	-0.010759301109976	-0.016170870965608	-0.004774416518799
59	massimi	111.313123	151.783106	-5.074	0.01336055103885	0.003944489632112	0.007053589783197
59	minimi	-104.726033	-152.484623	-13.132413	-0.013266171215051	-0.001157607191217	-0.00686846719223
60	massimi	4.247661	3.306562	-9.908365	0.005588733788742	0.008458973398088	0.000277953013083
60	minimi	-4.14927	-3.228697	-13.15425	-0.005583154131294	-0.008103737988388	-0.000273144646467
61	massimi	2.347014	2.05283	-9.908365	0.005588733788644	0.008458973397905	0.000277953012955
61	minimi	-2.328552	-1.973709	-13.15425	-0.005583154131196	-0.008103737988215	-0.000273144646341
62	massimi	2.27937	1.995288	0.592297	0.005291223411102	0.008183937961265	0.000235585146578
62	minimi	-2.256466	-1.921761	-22.632211	-0.005458198094389	-0.007508234235521	-0.000231366278145
63	massimi	2.277928	2.099837	-0.288685	0.005291117925509	0.007877451669122	0.000233414007875
63	minimi	-2.255363	-2.016368	-22.594666	-0.005461009214894	-0.007878658404999	-0.000229640941468
64	massimi	2.50906	2.099479	-1.434121	0.005468316046699	0.007870469282058	0.000228929454787
64	minimi	-2.494946	-2.015963	-21.437431	-0.00528768282502	-0.007871624203756	-0.000225113025026
65	massimi	2.509825	1.99523	1.830238	0.005468245104358	0.008190906775414	0.000231104152172
65	minimi	-2.496049	-1.921749	-23.858353	-0.005290528488777	-0.007515254863848	-0.000226841920385
66	massimi	34.231654	41.42881	-10.174879	0.008748176549491	0.010040191103304	0.00232240288219
66	minimi	-32.628708	-41.087361	-13.523157	-0.008650250098626	-0.009321817677078	-0.002195882773149
67	massimi	60.737769	68.420121	-10.275017	0.018226783413384	0.017956728572825	0.003915819145909
67	minimi	-57.03724	-68.037119	-13.680003	-0.018274043055609	-0.016503958108294	-0.003694542093052
68	massimi	80.805236	83.860711	-10.343781	0.009072126085992	0.01620879381601	0.005002978380175
68	minimi	-74.969852	-83.541675	-13.78815	-0.008881179816009	-0.014456676588128	-0.004715169856129
69	massimi	111.280987	130.606085	-10.408079	0.013491368209752	0.001947790291818	0.007061539436947
69	minimi	-104.758169	-130.84143	-13.977841	-0.013274561104344	-0.003678709045626	-0.00686051753848
70	massimi	4.256874	4.903062	-0.143367	0.004966103006305	0.007925648727896	0.000319558832792
70	minimi	-4.109885	-4.676634	-25.927335	-0.004968845736693	-0.007427415842362	-0.000309965486798
71	massimi	3.075161	4.166156	-0.143367	0.004966103006229	0.007925648727875	0.000319558832692
71	minimi	-3.002907	-3.940139	-25.927335	-0.004968845736617	-0.007427415842346	-0.000309965486701
72	massimi	3.071005	4.097328	-3.222482	0.004808349532825	0.007955562617417	0.000300756341298
72	minimi	-2.99311	-3.87771	-22.285851	-0.004979280423489	-0.007296037795807	-0.000291703974431
73	massimi	3.070656	4.208333	4.270984	0.004808163063524	0.007654192193992	0.000292902943512
73	minimi	-2.993111	-3.977417	-30.416936	-0.004980413542327	-0.007332439627629	-0.000284592541356
74	massimi	3.1693	4.208076	4.202768	0.004972879904531	0.007652315238207	0.000285568857992
74	minimi	-3.102815	-3.977048	-30.352229	-0.004806031275724	-0.007330569936066	-0.000277021261001
75	massimi	3.171763	4.097587	-3.526662	0.004972616440295	0.007957432158291	0.000293397249729
75	minimi	-3.105629	-3.878081	-21.985182	-0.004807087399628	-0.007297900072458	-0.000284107688027
76	massimi	34.236326	43.403332	-0.139688	0.001841720677764	0.002037204263373	0.0023122634589
76	minimi	-32.624036	-41.364711	-26.363431	-0.001088781586547	-0.002754167536134	-0.002206022196439
77	massimi	61.426363	71.330578	-0.131513	0.020984091897522	0.023260291157159	0.003938631931766
77	minimi	-56.348647	-67.116387	-26.535204	-0.022839600044671	-0.020815437356787	-0.003671729307196
78	massimi	80.773766	87.024699	-0.124487	0.00226967435236	0.002655905817411	0.005048927823518
78	minimi	-75.001322	-81.625832	-26.653741	-0.00161169981679	-0.005013764416552	-0.004669220412786
79	massimi	3.828371	3.799304	-4.973802	0.00628666056997	0.008310688002116	0.00024618630682
79	minimi	-3.85718	-3.801635	-12.175765	-0.006276021794504	-0.007859998115181	-0.000255572620672
80	massimi	1.960851	2.388769	-4.973802	0.006286660569859	0.008310688001927	0.000246186306707
80	minimi	-2.091065	-2.388706	-12.175765	-0.006276021794394	-0.007859998115008	-0.000255572620555
81	massimi	1.927903	2.575851	5.890183	0.005998376280768	0.007961586393924	0.000203669075247
81	minimi	-2.06583	-2.566205	-22.07785	-0.006111755162087	-0.007289353874742	-0.000211358744382
82	massimi	1.927796	2.185798	-0.037586	0.005988066897382	0.007818247992847	0.000210301721262

82	minimi	-2.065723	-2.195318	-17.220157	-0.006105146103354	-0.007634741087461	-0.000217991748047
83	massimi	1.981715	2.185026	-0.062632	0.006114992327381	0.007815130617631	0.000207753745713
83	minimi	-2.102484	-2.194879	-17.172612	-0.005977431399589	-0.00763152491795	-0.000215749603581
84	massimi	1.980677	2.575205	6.030295	0.006118345775373	0.0079647044435	0.000201116851669
84	minimi	-2.101446	-2.565227	-22.195464	-0.005984485172234	-0.007292570718615	-0.000209112351888
85	massimi	32.577809	49.227473	-5.095142	0.010432554265982	0.011092771161675	0.002230101444631
85	minimi	-31.038748	-49.326462	-12.50526	-0.010403039504498	-0.009962828850323	-0.002288184210708
86	massimi	56.670914	83.27273	-5.156434	0.024456926039994	0.015673283993227	0.003758438181547
86	minimi	-54.052245	-83.527919	-12.652336	-0.024352514830191	-0.015444282248412	-0.003851923057414
87	massimi	74.065652	104.8115	-5.197789	0.010805365027068	0.015483500266757	0.004799903279973
87	minimi	-71.132734	-105.173409	-12.753759	-0.010763976215919	-0.015132632303604	-0.004918244956331
88	massimi	104.73805	151.804139	-5.258957	0.01334795914761	0.003909944451988	0.006915546617571
88	minimi	-97.917688	-152.463591	-12.943858	-0.013281221571099	-0.001085819574107	-0.007006510357856
89	massimi	3.984746	3.320581	-9.706438	0.005579479055835	0.008111554052999	0.000249072137357
89	minimi	-3.92368	-3.263764	-13.756308	-0.005662112343126	-0.007760687499072	-0.000252464387911
90	massimi	2.16277	2.047216	-9.706438	0.005579479055738	0.008111554052821	0.000249072137242
90	minimi	-2.18065	-2.008992	-13.756308	-0.005662112343027	-0.007760687498905	-0.000252464387796
91	massimi	2.12904	2.010668	0.538454	0.005285404483388	0.007854781839879	0.000210457222021
91	minimi	-2.149819	-1.969244	-22.87899	-0.005540581424346	-0.007177266602634	-0.000213162945661
92	massimi	2.128615	2.073786	-1.58292	0.005282858435657	0.007546982969714	0.000208458018914
92	minimi	-2.149557	-2.039363	-21.590681	-0.00554091611289	-0.007558296505199	-0.000211379118216
93	massimi	2.180603	2.073633	-1.9661	0.005461066957813	0.007544124735582	0.000205795326862
93	minimi	-2.195182	-2.039255	-21.382251	-0.005362094526514	-0.007556205625681	-0.000208758419046
94	massimi	2.18026	2.010694	0.634953	0.005461614697174	0.007857616927	0.000207795846455
94	minimi	-2.195002	-1.969224	-23.150239	-0.005365523002149	-0.007179334335142	-0.000210543562977
95	massimi	32.585316	41.436505	-9.966605	0.008646967581634	0.009441373026653	0.002289757116086
95	minimi	-31.031242	-41.079665	-14.141918	-0.008678538731485	-0.008646891450784	-0.00228528539252
96	massimi	57.222001	68.416389	-10.063303	0.018259273394973	0.016847341218518	0.003844866030375
96	minimi	-53.501158	-68.040852	-14.30556	-0.01824637920387	-0.015373277727803	-0.003765495208586
97	massimi	75.552681	83.86891	-10.129706	0.008995410084986	0.01529208007485	0.004905128615041
97	minimi	-69.645705	-83.533476	-14.418424	-0.008946944237082	-0.013471825499764	-0.004813019621263
98	massimi	104.705909	130.638584	-10.190445	0.013425455993855	0.001898540198144	0.006938259714234
98	minimi	-97.94983	-130.80893	-14.612839	-0.013309213408955	-0.00359135927521	-0.006983797261193
99	massimi	3.949702	4.760244	-0.783972	0.005852163683301	0.006631953356163	0.000676908875647
99	minimi	-3.833371	-4.635851	-27.638607	-0.006419718774793	-0.006642189737846	-0.000669761427429
100	massimi	2.961346	3.798293	-0.783972	0.005852163683211	0.006631953356159	0.000676908875435
100	minimi	-2.84348	-3.759033	-27.638607	-0.006419718774694	-0.006642189737837	-0.00066976142722
101	massimi	2.610608	3.700895	-3.547491	0.005683826651631	0.006668906520662	0.000628022130657
101	minimi	-2.488852	-3.665925	-24.253801	-0.006427605161797	-0.006494877791013	-0.000621594796331
102	massimi	2.610479	3.873168	2.5323	0.005683957318689	0.006392993729776	0.000621279911592
102	minimi	-2.488784	-3.829879	-30.320492	-0.006427708717422	-0.00658718317175	-0.000614981457916
103	massimi	3.295337	3.873153	3.010556	0.005842192266885	0.006390573265661	0.000613851850183
103	minimi	-3.182082	-3.829682	-31.525081	-0.006216249414875	-0.006586265898188	-0.000607166467591
104	massimi	3.295295	3.700846	-3.383709	0.005842269305647	0.006671313332344	0.000620610400152
104	minimi	-3.182101	-3.666059	-25.143916	-0.006216299342204	-0.006495781412141	-0.000613796136911
105	massimi	32.585543	43.415961	-0.78514	0.001039820370032	0.002362710791275	0.002238249660993
105	minimi	-31.031015	-41.352082	-28.131134	-0.000983177661381	-0.002813313249426	-0.002280035994345
106	massimi	57.838288	71.265427	-0.786505	0.013411732709295	0.020623042980089	0.003433430498477
106	minimi	-52.884871	-67.181538	-28.365957	-0.013774487004455	-0.018406371103116	-0.004176930740484
107	massimi	75.514657	87.058897	-0.775415	0.002860493357025	0.002842827507689	0.004858680237219
107	minimi	-69.683729	-81.591633	-28.490923	-0.003001045572963	-0.004872567373512	-0.004859467999084
108	massimi	0.93532	0.770859	-0.362494	0.000773042557881	-0.000456220816275	0.00009599015984
108	minimi	-0.791942	-0.750301	-2.658344	-0.001659755524273	-0.00163518203223	-0.000086096821848
109	massimi	32.730094	44.399969	-0.426906	0.021306086046258	0.017621048186843	0.002185486591646
109	minimi	-30.622171	-42.841437	-2.786715	-0.021585894166446	-0.01575914299504	-0.002332799063692
110	massimi	56.332572	74.306871	-0.470029	0.01025978428776	0.004910922111293	0.003674688436752
110	minimi	-53.297616	-72.68478	-2.875962	-0.010038946828027	-0.006696722588679	-0.00393567280221
111	massimi	0.918695	0.814625	0.659415	0.001186932294055	0.001218851630924	0.000101646481041
111	minimi	-0.776971	-0.812943	-1.653959	-0.001576813285069	-0.000634190908128	-0.00009157250073
112	massimi	33.36568	51.28319	0.649576	0.024693067733704	0.016181562830209	0.002239609539625
112	minimi	-29.986585	-50.513294	-1.727561	-0.024830610784215	-0.015143491169125	-0.002278676115713
113	massimi	56.323638	85.722548	0.645988	0.012682261458587	0.008877942706409	0.003767881130277
113	minimi	-53.30655	-85.05751	-1.777281	-0.012399962240725	-0.010754719748637	-0.003842480108684
114	massimi	1.014896	4.64139	-1.124368	0.003536811270707	-0.000714043542972	0.000363074533735
114	minimi	-0.87402	-4.580959	-26.287701	-0.003800943748565	-0.004029523807565	-0.000379037409968
115	massimi	32.28176	43.420635	-0.702719	0.000944011205162	0.002405502057926	0.002161039674337
115	minimi	-31.070504	-41.347408	-28.02368	-0.001266760277233	-0.002944866145365	-0.002357245981001
116	massimi	56.358415	71.255215	-1.625376	0.005494183589195	0.011249665302762	0.003632484425008
116	minimi	-53.271773	-67.19175	-28.45065	-0.005727593917891	-0.010615231250651	-0.003977876813953

117	massimi	3.679968	3.803535	-4.451184	0.006287367171461	0.008317873835039	0.000256246631575
117	minimi	-3.791958	-3.81306	-12.513649	-0.006319377656094	-0.008055065733667	-0.000283025756923
118	massimi	1.811125	2.383163	-4.451184	0.006287367171351	0.008317873834846	0.000256246631457
118	minimi	-1.982247	-2.399889	-12.513649	-0.006319377655983	-0.008055065733486	-0.000283025756793
119	massimi	1.84934	2.628069	5.689545	0.005999818884062	0.007971599757334	0.000211072101708
119	minimi	-2.043836	-2.617068	-21.875698	-0.006153513088869	-0.007480874207229	-0.000233293650003
120	massimi	1.852584	2.123248	0.417884	0.005991260007317	0.007821902339472	0.000217852094312
120	minimi	-2.047008	-2.167439	-17.228024	-0.006147111960333	-0.007813625671072	-0.000239979396662
121	massimi	1.78769	2.12143	-0.080661	0.006113163084697	0.007836408272494	0.000217157475404
121	minimi	-1.933234	-2.166058	-16.797175	-0.006018937570144	-0.007828428861359	-0.000239686688739
122	massimi	1.787916	2.628839	6.958607	0.00610493430656	0.007957138970146	0.000210373406225
122	minimi	-1.933388	-2.617401	-23.212456	-0.006012866540215	-0.007466116162777	-0.000232996865506
123	massimi	32.440346	49.232125	-4.558916	0.010294891608699	0.011030431658886	0.002199106959147
123	minimi	-31.51509	-49.32181	-12.851219	-0.01035065871749	-0.010050788141044	-0.002319178696192
124	massimi	56.039329	83.268088	-4.614879	0.024504885340367	0.01532819192936	0.0037235412903
124	minimi	-54.352131	-83.532561	-13.000414	-0.024358322000739	-0.015278435161754	-0.003886819948661
125	massimi	72.624732	104.813702	-4.652512	0.010687934050118	0.015158860096512	0.004762266401701
125	minimi	-70.85616	-105.171207	-13.103304	-0.010740444393555	-0.01497744547538	-0.004955881834603
126	massimi	103.451977	151.822279	-4.710821	0.013166284691102	0.003992841798896	0.006849755063039
126	minimi	-98.196903	-152.445451	-13.295069	-0.013188858774473	-0.001244068395665	-0.007072301912388
127	massimi	3.733807	3.32638	-9.281375	0.005493400842479	0.008136452554281	0.00025694514286
127	minimi	-3.732948	-3.289361	-13.683635	-0.00568196752185	-0.007950237817254	-0.00026178161805
128	massimi	1.906664	2.053025	-9.281375	0.005493400842382	0.008136452554096	0.000256945142742
128	minimi	-1.947704	-2.058434	-13.683635	-0.005681967521751	-0.007950237817075	-0.00026178161793
129	massimi	1.939513	1.974867	0.3089	0.00520563330563	0.00788359217022	0.00021679080647
129	minimi	-1.984712	-1.975261	-22.249361	-0.005559388852827	-0.007370805948832	-0.000220798984432
130	massimi	1.940858	2.118515	-0.400992	0.005205179702615	0.007565443305261	0.000213414755123
130	minimi	-1.986034	-2.128853	-21.981599	-0.005560464137481	-0.00772465756799	-0.000217392458968
131	massimi	1.866103	2.118596	-1.258091	0.00537074359542	0.007575793589279	0.000212810302334
131	minimi	-1.902461	-2.129038	-21.523275	-0.005378486913008	-0.007736758932184	-0.00021688439502
132	massimi	1.86584	1.974971	1.090226	0.005370285116161	0.007873276545389	0.000216132252653
132	minimi	-1.902175	-1.975262	-23.429462	-0.005379557321418	-0.007358739243824	-0.000220236819455
133	massimi	32.437067	41.444541	-9.529915	0.008388469205963	0.009294322343426	0.00226433105203
133	minimi	-31.51837	-41.071629	-14.065754	-0.008627922570336	-0.008730151694938	-0.002253954603308
134	massimi	56.498111	68.409337	-9.618961	0.018330676667044	0.01647280119096	0.0037816728739096
134	minimi	-53.893349	-68.047903	-14.230254	-0.018223243784341	-0.015253355801472	-0.003828688359865
135	massimi	73.989213	83.877814	-9.679979	0.008829739786821	0.014958702369216	0.004815418147202
135	minimi	-69.491679	-83.524572	-14.343733	-0.0089958638903	-0.013315276628831	-0.004902730089102
136	massimi	103.417119	130.667187	-9.73285	0.013118866799102	0.002022221210867	0.006869969426928
136	minimi	-98.23176	-130.780328	-14.54278	-0.013168562887772	-0.003709710117468	-0.007052087548499
137	massimi	3.4901	4.522752	-0.594351	0.007711511791995	0.005137534986436	0.000884676804372
137	minimi	-3.405976	-4.528393	-25.998671	-0.00853759071745	-0.00620703144382	-0.000869226123955
138	massimi	2.722411	3.242511	-0.594351	0.007711511791876	0.005137534986447	0.000884676804095
138	minimi	-2.477863	-3.372064	-25.998671	-0.008537590717318	-0.006207031443806	-0.000869226123684
139	massimi	2.204993	3.167435	-2.691967	0.007526641077588	0.005183533070027	0.000816487943217
139	minimi	-1.952168	-3.305557	-23.809931	-0.008513981690575	-0.006065385251448	-0.000802929071971
140	massimi	2.20488	3.304419	3.167044	0.007528640410876	0.004935110831967	0.000814618765982
140	minimi	-1.951854	-3.424543	-28.300244	-0.008513148423123	-0.006159648494746	-0.000800634599908
141	massimi	3.226077	3.304671	3.883447	0.004936860446382	0.004936860446382	0.000806556219351
141	minimi	-2.991629	-3.424416	-30.073829	-0.008301911745042	-0.006163586009607	-0.000791769254107
142	massimi	3.226873	3.167051	-2.275719	0.007661411111148	0.005181819959847	0.000808433481454
142	minimi	-2.992223	-3.305553	-25.283361	-0.008301045741923	-0.006061484240822	-0.000794071811039
143	massimi	32.429662	43.42547	-0.594204	0.000233087271422	0.002472636705393	0.002260016864538
143	minimi	-31.525774	-41.342573	-26.488946	-0.001275089102438	-0.003103810031709	-0.0022582687908
144	massimi	56.918715	71.245394	-0.634063	0.008257077337536	0.018898678591896	0.003733839693947
144	minimi	-53.472745	-67.201571	-26.728082	-0.009225215550699	-0.017049028322172	-0.003876521545014
145	massimi	73.938003	87.135697	-0.61911	0.002670745236139	0.002830673109957	0.004879352345372
145	minimi	-69.542888	-81.514834	-26.848476	-0.003828219517977	-0.004883226294794	-0.004838795890932
146	massimi	1.424296	0.77091	-0.246433	0.0016620312642	-0.000459539295335	0.000146453964441
146	minimi	-1.301453	-0.750277	-2.639025	-0.000917004063361	-0.001578136279618	-0.000145743008089
147	massimi	33.314786	43.720644	-0.299877	0.021031022701837	0.017825268639367	0.002191349021088
147	minimi	-31.365771	-43.520762	-2.772726	-0.021672679297476	-0.016018889312877	-0.00232693663425
148	massimi	57.287172	74.305647	-0.335049	0.010065199158868	0.005029205894595	0.003688109637767
148	minimi	-54.273539	-72.686005	-2.865846	-0.010807788735996	-0.006558401418434	-0.003922251601194
149	massimi	1.385757	0.814318	0.981089	0.001663378949065	0.001202862285606	0.000167767749404
149	minimi	-1.263633	-0.812329	-1.919333	-0.001333526697103	-0.000634045694295	-0.000168334248241
150	massimi	34.01282	50.861437	0.988522	0.02461014596522	0.01633078713659	0.002235055988966
150	minimi	-30.667737	-50.935048	-2.006869	-0.024849474873586	-0.015290396805555	-0.002283229666372
151	massimi	57.276561	85.722717	0.997372	0.012303509696164	0.00910505735244	0.00376388195468

151	minimi	-54.284151	-85.057341	-2.066613	-0.012833414392993	-0.010975498611214	-0.003846479284282
152	massimi	1.623795	4.460227	-0.386305	0.000392590217278	0.000152439668749	0.00173236239864
152	minimi	-1.506726	-4.491013	-25.135144	-0.001787522495731	-0.003986207729375	-0.001699269221742
153	massimi	32.785008	43.42714	-0.492043	0.000613864340725	0.002304647944349	0.00224128319119
153	minimi	-31.895549	-41.340903	-25.504997	-0.001967335925154	-0.003076568684867	-0.002277002464148
154	massimi	57.319139	71.240366	-0.348649	0.000697616629161	0.01370927685571	0.003569834793563
154	minimi	-54.241573	-67.2066	-26.471549	-0.001255179749454	-0.0126359973376	-0.004040526445398
155	massimi	4.068446	3.802482	-1.129431	0.008045768784835	0.008831215373722	0.000208919471218
155	minimi	-4.343674	-3.816196	-14.250218	-0.008243076565407	-0.008699470453368	-0.000200786633617
156	massimi	2.086691	1.948877	-1.129431	0.008045768784694	0.008831215373521	0.000208919471122
156	minimi	-2.391562	-2.006985	-14.250218	-0.008243076565262	-0.008699470453179	-0.000200786633525
157	massimi	2.055174	1.897561	9.30227	0.007688903239827	0.008431976854154	0.000174478098552
157	minimi	-2.350708	-1.964049	-23.929295	-0.007989292729717	-0.008091676524216	-0.000167488364082
158	massimi	2.058155	2.000456	6.698241	0.007665207005172	0.008336546060408	0.000174501601183
158	minimi	-2.35344	-2.04927	-21.638068	-0.007966678167828	-0.008426698060873	-0.000167184458725
159	massimi	2.091663	1.996912	-1.147859	0.007824519006949	0.008357644094121	0.000174677529748
159	minimi	-2.402063	-2.046505	-14.209229	-0.007902903880124	-0.008449628343357	-0.000168076429113
160	massimi	2.094778	1.900193	10.15314	0.007801170143809	0.008410587476159	0.000174632581069
160	minimi	-2.404929	-1.965902	-25.197425	-0.00788063668975	-0.008068454897449	-0.000168358888422
161	massimi	34.381875	49.2371	-1.123006	0.013318335187949	0.011336389530807	0.002334749201629
161	minimi	-33.983186	-49.316835	-14.648931	-0.013450350671893	-0.010151330893067	-0.002183536453709
162	massimi	59.564271	83.260861	-1.114529	0.022885184201904	0.016657603540643	0.003914740589677
162	minimi	-58.101757	-83.539788	-14.833452	-0.022698582266842	-0.016451642811127	-0.003695620649284
163	massimi	76.990298	104.816551	-1.10694	0.014281528698725	0.014949838441234	0.004992473847408
163	minimi	-75.180436	-105.168358	-14.961123	-0.014435262753816	-0.014501687246746	-0.004725674388896
164	massimi	109.243396	151.832942	-1.116166	0.017179400949363	0.003990064475574	0.006963680033626
164	minimi	-105.744108	-152.434788	-15.122937	-0.017268105595103	-0.00238198553403	-0.006958376941801
165	massimi	4.262725	3.329406	-5.565545	0.006670365425859	0.00854896861403	0.000339998461034
165	minimi	-4.282577	-3.30633	-14.189801	-0.007020986433313	-0.008564563136269	-0.000343871412933
166	massimi	2.345085	1.75381	-5.565545	0.006670365425742	0.008548968613844	0.000339998460878
166	minimi	-2.361428	-1.809624	-14.189801	-0.00702098643319	-0.008564563136083	-0.000343871412775
167	massimi	2.427717	1.97686	-0.137977	0.006341848310464	0.008299998231356	0.000280062574403
167	minimi	-2.44761	-2.028233	-18.752656	-0.006826189168132	-0.008030642395582	-0.000283436682422
168	massimi	2.429115	1.521081	5.094609	0.006342057436256	0.007932347280752	0.000286380591985
168	minimi	-2.448769	-1.580457	-23.948215	-0.00682627025748	-0.008231312941511	-0.000289440202233
169	massimi	2.254191	1.521661	2.896661	0.006499835630416	0.007945628427537	0.0002881212067
169	minimi	-2.267004	-1.58108	-22.491751	-0.006690636850502	-0.008247850047928	-0.000291219218193
170	massimi	2.253758	1.976859	0.331325	0.006499935834234	0.008286660778168	0.000281804453062
170	minimi	-2.266332	-2.02819	-19.963441	-0.006690609017877	-0.008014048982762	-0.000285216944326
171	massimi	34.315461	41.452683	-5.681313	0.010348546439424	0.009570199064503	0.002217204216317
171	minimi	-34.049601	-41.063487	-14.60717	-0.010827477453852	-0.009516550933757	-0.002301081439021
172	massimi	59.287541	68.415351	-5.690612	0.017219807463698	0.017357688609605	0.003727262623036
172	minimi	-58.378487	-68.041889	-14.822885	-0.017012944201809	-0.016754345176122	-0.003883098615925
173	massimi	77.037651	83.887214	-5.695565	0.011402738610445	0.014266693042091	0.004755894000259
173	minimi	-75.133083	-83.515172	-14.972396	-0.01174982593396	-0.013375118872417	-0.004962254236045
174	massimi	109.181583	130.684055	-5.696165	0.017451647193056	0.003019272192288	0.006873558443586
174	minimi	-105.805921	-130.763459	-15.148289	-0.017518683425661	-0.003833126570424	-0.007048498531841
175	massimi	4.249253	4.203562	0.564624	0.005526811015986	0.006656647219791	0.000245100453564
175	minimi	-4.199993	-4.340086	-18.461354	-0.006966337713233	-0.007000494812133	-0.000278246481209
176	massimi	3.254199	3.159875	0.564624	0.0055268110159	0.006656647219796	0.000245100453487
176	minimi	-3.153362	-3.512327	-18.461354	-0.006966337713126	-0.007000494812129	-0.000278246481122
177	massimi	3.313118	3.118503	-3.249502	0.005416486767576	0.006651279240721	0.000225944651563
177	minimi	-3.232601	-3.449996	-13.783792	-0.006947909857884	-0.006878409464632	-0.000257093547779
178	massimi	3.31397	3.181516	4.534603	0.00541863970481	0.006459135983035	0.000220945100907
178	minimi	-3.232905	-3.552591	-21.127855	-0.006949152102111	-0.006909218920007	-0.000250936971829
179	massimi	3.174204	3.18192	5.546641	0.005466616165494	0.006459049388863	0.000223781176528
179	minimi	-3.054263	-3.552837	-23.98214	-0.006771273903288	-0.006912944965289	-0.000253442021668
180	massimi	3.175119	3.118157	-0.965719	0.005468717456485	0.00665140396177	0.000228740281758
180	minimi	-3.05463	-3.449807	-17.909822	-0.006772464501271	-0.006874721546228	-0.000259558152191
181	massimi	34.303949	43.434168	0.566328	0.000185870645474	0.001642329118198	0.002088167730933
181	minimi	-34.061113	-41.333875	-18.744318	-0.002788613640552	-0.003006626338269	-0.002430117924405
182	massimi	59.788931	71.220155	0.543531	0.006645698294345	0.021929923429206	0.003388606728361
182	minimi	-57.877097	-67.226811	-18.883058	-0.008941204999892	-0.020518667765018	-0.0042217545106
183	massimi	76.989942	87.222487	0.54049	0.002297898909064	0.00182892002396	0.004427843795789
183	minimi	-75.180793	-81.428043	-18.958584	-0.004683241875495	-0.004500488736345	-0.005290304440515
184	massimi	4.12826	5.064117	-5.333744	0.009101216332553	0.004706114408893	0.000389415330572
184	minimi	-4.348706	-4.983807	-19.153748	-0.009196843838255	-0.003380801269064	-0.000368823772242
185	massimi	3.460709	3.687121	-5.333744	0.009101216332413	0.004706114408926	0.00038941533045
185	minimi	-3.879951	-3.621156	-19.153748	-0.009196843838113	-0.003380801269131	-0.000368823772127

186	massimi	3.391659	3.503275	-5.847873	0.008897216167434	0.004755946863234	0.000362856149433
186	minimi	-3.797214	-3.4501	-17.503977	-0.009147769663035	-0.00329282247887	-0.00034317108469
187	massimi	3.393768	3.84799	-2.542058	0.008897585598292	0.004512828330147	0.000352559245073
187	minimi	-3.799426	-3.769672	-22.505873	-0.009151649234535	-0.003365727950472	-0.000333090730056
188	massimi	3.507932	3.844409	-0.272011	0.009046758035577	0.004510911520429	0.000351597540088
188	minimi	-3.937979	-3.766743	-24.8983	-0.008981034253521	-0.003364064413723	-0.000333505307668
189	massimi	3.510159	3.506861	-2.258796	0.009041857640791	0.004760007946045	0.000361871632407
189	minimi	-3.940308	-3.453035	-21.215434	-0.008979643999377	-0.003296630288712	-0.000343562850262
190	massimi	34.368026	44.343578	-5.424564	0.004977008857624	0.002960229522163	0.002264663168441
190	minimi	-33.997035	-43.729504	-19.478242	-0.003972903557367	-0.000643758510195	-0.002253622486897
191	massimi	59.246464	74.757045	-5.465212	0.022522570932145	0.022562389621491	0.003850483291147
191	minimi	-58.419564	-72.506459	-19.591698	-0.023640822981359	-0.022993647619203	-0.003759877947815
192	massimi	77.006405	92.371906	-5.492134	0.007929851336281	0.003303583975577	0.004932309064701
192	minimi	-75.164329	-90.981984	-19.669622	-0.004705568850239	-0.000643904446431	-0.004785839171603
193	massimi	4.234495	4.530864	-0.49323	0.007328561503721	0.004417532940281	0.000514435921833
193	minimi	-4.288351	-4.507645	-22.365243	-0.007647665047566	-0.005344963268545	-0.000519689363963
194	massimi	3.589862	3.38467	-0.49323	0.007328561503608	0.004417532940329	0.000514435921672
194	minimi	-3.504604	-3.409316	-22.365243	-0.007647665047448	-0.005344963268576	-0.000519689363801
195	massimi	3.656926	3.636828	0.948838	0.007176026878803	0.004352626670647	0.000465974258398
195	minimi	-3.575093	-3.658202	-23.985993	-0.007638571170958	-0.005119267011734	-0.000470973641397
196	massimi	3.657976	3.111103	-4.572839	0.007173535383041	0.004347777813891	0.000474403141697
196	minimi	-3.576105	-3.138858	-17.277429	-0.007633623341829	-0.005407725874458	-0.000479321616487
197	massimi	3.524777	3.111362	0.173195	0.007260308690352	0.004353679463855	0.000477840830792
197	minimi	-3.436696	-3.138984	-22.431839	-0.007428700105543	-0.005414472681906	-0.000482479418913
198	massimi	3.524396	3.636613	4.594653	0.007257875955048	0.004346732439396	0.000469407575667
198	minimi	-3.436276	-3.658119	-28.040183	-0.007423811036872	-0.005112527622999	-0.000474127071996
199	massimi	34.324044	41.843163	-0.512061	0.004892161753842	0.002087550407433	0.002011467710873
199	minimi	-34.041017	-40.508979	-22.723844	-0.004833037761658	-0.003819970745	-0.002506817944465
200	massimi	59.644604	69.315561	-0.507344	0.019813144136516	0.022470576447822	0.003305047645452
200	minimi	-58.021425	-66.858831	-22.844499	-0.020582097939327	-0.020931789525152	-0.00430531359351
201	massimi	77.018019	85.256297	-0.502506	0.005005072073607	0.001993469191494	0.004181683499682
201	minimi	-75.152715	-82.389384	-22.927385	-0.004618820402599	-0.003963702391877	-0.005536464736621
202	massimi	3.187585	5.077426	-1.154195	0.009840939932537	0.008582735366925	0.000296288267627
202	minimi	-3.302544	-5.043149	-23.002085	-0.010157766411722	-0.009249340995761	-0.000336061822428
203	massimi	1.901125	3.567146	-1.154195	0.009840939932385	0.008582735366856	0.000296288267534
203	minimi	-1.916093	-3.580394	-23.002085	-0.010157766411565	-0.009249340995682	-0.000336061822323
204	massimi	1.957215	3.693385	6.130983	0.009550321746048	0.008514969675159	0.000268077278575
204	minimi	-1.995798	-3.682947	-30.287888	-0.010019091316437	-0.00901594482015	-0.000304558759436
205	massimi	1.959788	3.419804	4.694064	0.009548495861063	0.008388979112345	0.00027207855722
205	minimi	-1.99835	-3.456649	-27.997875	-0.010015499901904	-0.009200894082122	-0.00030851654934
206	massimi	1.833447	3.417701	-8.142601	0.009833440134288	0.008397302678047	0.00027551146975
206	minimi	-1.824723	-3.45457	-15.566671	-0.009990430753296	-0.009210056774419	-0.00031199859937
207	massimi	1.835989	3.695524	-1.290596	0.009831727182477	0.008506583174493	0.000271501547672
207	minimi	-1.827244	-3.685063	-23.271771	-0.009986952271937	-0.009006719192891	-0.000308032166034
208	massimi	37.495635	44.342508	-1.187633	0.003259942480488	0.002611064328015	0.002103108549711
208	minimi	-40.479628	-43.730574	-23.367797	-0.004472113886745	-0.002806078181624	-0.002415177105627
209	massimi	63.901188	73.545672	-1.222861	0.023786017062928	0.022365525842412	0.003497762532576
209	minimi	-69.413432	-73.717832	-23.473101	-0.0232644005261517	-0.024110481279245	-0.004112598706385
210	massimi	81.942062	92.400801	-1.246156	0.003671309986188	0.00621567813055	0.004445365271775
210	minimi	-88.945879	-90.953089	-23.545123	-0.007398926732413	-0.006361111677676	-0.005272782964529
211	massimi	3.04613	4.542724	0.221875	0.007486997507301	0.005308199934589	0.000271691935251
211	minimi	-3.103103	-4.557447	-18.573119	-0.008195675291135	-0.006532554608822	-0.000293699930069
212	massimi	2.250682	3.317168	0.221875	0.007486997507186	0.005308199934582	0.000271691935166
212	minimi	-2.124001	-3.438193	-18.573119	-0.008195675291008	-0.006532554608792	-0.000293699929977
213	massimi	2.278055	3.401188	5.606239	0.007252325909175	0.005285589609122	0.000242841845258
213	minimi	-2.164977	-3.508624	-24.120702	-0.008068292371298	-0.006375751689655	-0.000263436372795
214	massimi	2.279095	3.21428	5.542026	0.007254066302844	0.005169176201953	0.000251080998548
214	minimi	-2.165829	-3.34809	-22.48961	-0.008066790016539	-0.006490399623178	-0.000271278228138
215	massimi	2.209759	3.214665	-4.793284	0.007491701668016	0.005174787125081	0.000255609102315
215	minimi	-2.070504	-3.348279	-13.061237	-0.008074729830246	-0.006497887505506	-0.000275390467991
216	massimi	2.21076	3.401036	-2.674522	0.007493466686291	0.005279889126347	0.000247387182815
216	minimi	-2.071318	-3.50867	-16.746877	-0.008073252100093	-0.006368174247679	-0.000267565846438
217	massimi	37.487809	41.850502	0.189323	0.004522306728212	0.000320756155871	0.002295027989252
217	minimi	-40.487454	-40.50164	-18.815713	-0.005955668091726	-0.002272483014134	-0.002223257666086
218	massimi	63.882267	69.161913	0.144771	0.020103739131689	0.024138046070305	0.003828199461146
218	minimi	-69.432352	-67.012479	-18.924411	-0.020162112165984	-0.025170211803348	-0.003782161777815
219	massimi	81.924562	85.270664	0.114994	0.00428555536611	0.002047172863859	0.004873059160726
219	minimi	-88.963379	-82.375017	-18.99888	-0.005673346263736	-0.003404090410833	-0.004845089075578
220	massimi	3.821097	4.555105	-4.127611	0.004395852709198	0.00680403537191	0.000227811380265

220	minimi	-3.676644	-4.55156	-18.008968	-0.005015743001011	-0.007512849036068	-0.000257859753007
221	massimi	2.800962	3.808758	-4.127611	0.00439585270913	0.006804035371898	0.000227811380194
221	minimi	-2.550187	-3.898196	-18.008968	-0.005015743000934	-0.007512849036037	-0.000257859752927
222	massimi	2.688684	3.790397	0.011087	0.004250399883461	0.006727402341744	0.000209853779705
222	minimi	-2.45668	-3.861474	-22.001012	-0.005003954582934	-0.007284058717433	-0.000237975592941
223	massimi	2.689838	3.806628	-5.67703	0.004249894601411	0.006673260643956	0.000208634095324
223	minimi	-2.457695	-3.913835	-15.405784	-0.0050015719818	-0.007512623762581	-0.00023646230208
224	massimi	2.895033	3.806491	-7.490672	0.004407880373643	0.006677428068658	0.000208150251866
224	minimi	-2.627289	-3.913308	-14.385453	-0.004877086527921	-0.007518432989542	-0.000235155218651
225	massimi	2.896218	3.790216	1.14626	0.004407463044766	0.006723227581139	0.000209379273213
225	minimi	-2.628336	-3.861682	-23.929495	-0.00487479187996	-0.007278242154569	-0.000236677846478
226	massimi	35.122666	41.847915	-4.221847	0.002543168066068	0.00341736049861	0.002038646556571
226	minimi	-37.113213	-40.504227	-18.297453	-0.003220919121175	-0.004204795972104	-0.002479639098767
227	massimi	60.297543	69.176804	-4.275601	0.021196045098645	0.021509398154722	0.003378546357985
227	minimi	-63.938859	-66.997589	-18.416521	-0.021575519857114	-0.0222981574717	-0.004231814880976
228	massimi	78.061236	85.265605	-4.311867	0.002342613388529	0.005137483668168	0.004287704671909
228	minimi	-82.377076	-82.380077	-18.498242	-0.003116311632181	-0.005282023825941	-0.005430443564395
229	massimi	3.710503	3.92206	0.678547	0.001055361064124	0.005121923120755	0.000524774050801
229	minimi	-3.531819	-4.116044	-8.776307	-0.004306559129268	-0.006139790235466	-0.000477799182675
230	massimi	2.943089	3.291502	0.678547	0.001055361064108	0.005121923120774	0.000524774050637
230	minimi	-2.611725	-3.973166	-8.776307	-0.004306559129201	-0.006139790235458	-0.000477799182526
231	massimi	3.243085	3.192306	-2.074364	0.001029330885113	0.005089748170419	0.000475761354634
231	minimi	-2.885413	-3.899388	-4.52727	-0.004279161992318	-0.0060495654609	-0.00043434056091
232	massimi	3.244494	3.373036	4.460599	0.001033959979957	0.00499796304923	0.000477766054758
232	minimi	-2.885762	-4.024761	-9.759609	-0.004281095228636	-0.006042850812574	-0.000434101001749
233	massimi	2.622438	3.373488	4.585505	0.001044654131499	0.004990925841289	0.000487367111136
233	minimi	-2.320638	-4.024698	-14.045264	-0.004200803848073	-0.0060444245224	-0.00044261426129
234	massimi	2.623897	3.191976	-2.080345	0.00104923986643	0.005096790254295	0.000485146792529
234	minimi	-2.321039	-3.899573	-8.682038	-0.004202693724479	-0.00604799662701	-0.000442631697149
235	massimi	35.123836	43.443065	0.726989	0.000731882153578	0.003091667356959	0.001999604838107
235	minimi	-37.112043	-41.324978	-9.199255	-0.003468425987647	-0.005068454857274	-0.002518680817231
236	massimi	60.627524	71.213942	0.7425	0.011216854019548	0.021748860821992	0.003044731992333
236	minimi	-63.608879	-67.233023	-9.351345	-0.012886926221169	-0.021763971100657	-0.004565629246628
237	massimi	78.055815	87.253061	0.746417	0.001729943597192	0.004186418571337	0.00418476155004
237	minimi	-82.382498	-81.39747	-9.420245	-0.00438959666791	-0.00653381825829	-0.005533386686264
238	massimi	2.690413	3.844284	4.261572	0.002496908007414	0.003003094387393	0.000695980054165
238	minimi	-2.724626	-4.041129	-3.995649	-0.003856325366132	-0.003776065308061	-0.000625301446358
239	massimi	37.484766	43.444238	4.442459	0.001339719386089	0.001699848434334	0.002171134743315
239	minimi	-40.490496	-41.323806	-4.307109	-0.003773811644143	-0.003406784581999	-0.002347150912023
240	massimi	64.041909	71.332541	4.468857	0.020756105040665	0.0230163564203	0.003671912894641
240	minimi	-69.272711	-67.114424	-4.391833	-0.021374487117865	-0.024057120370602	-0.00393844834432
241	massimi	81.907623	87.259455	4.489155	0.002877911549913	0.004309698322638	0.004694028347865
241	minimi	-88.980318	-81.391076	-4.449559	-0.005164613365304	-0.006247311765929	-0.005024119888439
242	massimi	3.799063	3.291004	-5.917682	0.010957597981089	0.003799151585239	0.000346402166023
242	minimi	-3.627061	-3.33118	-10.123551	-0.01184434579615	-0.005125997212232	-0.000344585148633
243	massimi	3.230982	1.516214	-5.917682	0.01095759798092	0.003799151585285	0.000346402165915
243	minimi	-2.859953	-1.689403	-10.123551	-0.011844345795968	-0.005125997212245	-0.000344585148525
244	massimi	3.237641	1.528817	0.01148	0.010738131189981	0.003781660200431	0.000316649976022
244	minimi	-2.866897	-1.702223	-16.190029	-0.011713902604377	-0.004988673469299	-0.000315876498305
245	massimi	3.238331	1.49933	-0.186144	0.010741526475637	0.003702254175017	0.000315615793828
245	minimi	-2.867317	-1.671151	-14.294364	-0.011713783690544	-0.005108483927405	-0.000314273776569
246	massimi	3.204924	1.499543	-0.147545	0.01083963364791	0.003705037714204	0.000318879480122
246	minimi	-2.836341	-1.670788	-15.467785	-0.011613839994553	-0.005113616050826	-0.000316319455594
247	massimi	3.205639	1.528662	-0.628951	0.010843034472695	0.003779609414523	0.000319914984249
247	minimi	-2.836787	-1.702644	-16.684422	-0.011613726619848	-0.004984274099158	-0.000317923499264
248	massimi	35.120815	42.774925	-6.02034	0.010969338176085	0.001296657906909	0.00242249675549
248	minimi	-37.115064	-40.488456	-10.288915	-0.012195614261397	-0.003047304216714	-0.002095788899848
249	massimi	60.54428	70.606484	-6.082683	0.016804502257	0.022892050413022	0.004164202401184
249	minimi	-63.692123	-66.384353	-10.374206	-0.017786836726651	-0.023134059614695	-0.003446158837777
250	massimi	78.053963	86.632798	-6.124868	0.010265748871105	0.001457446192622	0.005355479712156
250	minimi	-82.38435	-80.92212	-10.432324	-0.011612438065417	-0.003384514198018	-0.004362668524148
251	massimi	2.736139	1.324885	-1.058096	0.005765831605291	-0.000286232603406	0.000516390336107
251	minimi	-2.772054	-1.302654	-5.407732	-0.006723597235579	-0.002726409971223	-0.000473458313801
252	massimi	2.816604	0.327106	-1.058096	0.005765831605202	-0.000286232603323	0.000516390335945
252	minimi	-2.400622	-0.448541	-5.407732	-0.006723597235475	-0.002726409971246	-0.000473458313653
253	massimi	2.818018	0.599767	2.809589	0.005643117694098	-0.000278279502065	0.000473149309865
253	minimi	-2.377978	-0.746008	-10.539094	-0.006626033083946	-0.002653953233921	-0.000434649851117
254	massimi	2.818124	0.122591	3.476468	0.005649572545462	-0.000285439733746	0.000474578338089
254	minimi	-2.377896	-0.218414	-7.350517	-0.006624508840543	-0.002715773760609	-0.000435680236218

255	massimi	2.804856	0.121124	0.063506	0.00570632480192	-0.000290325075906	0.000474228698621
255	minimi	-2.415879	-0.216301	-5.163263	-0.006617722755868	-0.002713425095981	-0.000433965018683
256	massimi	2.80494	0.598981	-1.79743	0.005712781822036	-0.000273413038062	0.000472799535296
256	minimi	-2.415775	-0.745868	-7.157783	-0.006616200681217	-0.002656283020393	-0.000432934498482
257	massimi	37.48422	42.804503	-1.094735	0.009499691393661	-0.000213375043748	0.002320831568394
257	minimi	-40.491043	-40.458878	-5.80909	-0.011049886114279	-0.001966654262154	-0.002197454086944
258	massimi	64.082733	70.731158	-1.146231	0.016950324956052	0.024414834289401	0.00397763766353
258	minimi	-69.231887	-66.259679	-5.908938	-0.017762349724418	-0.0252329228085	-0.003632723575432
259	massimi	81.911254	86.480834	-1.180664	0.010940842799797	0.000873102524845	0.005109304651768
259	minimi	-88.976687	-81.074084	-5.977243	-0.011595525565159	-0.003312942005248	-0.004608843584535
260	massimi	167.587626	158.799037	5.45338	0.01740050633988	0.005073776146993	0.007046687480867
260	minimi	-165.879061	-159.797224	-18.272923	-0.017066459821081	-0.003921813753249	-0.006875369494559
261	massimi	138.029631	158.720436	2.268789	0.013437673021447	0.004507714790956	0.007118489100992
261	minimi	-133.821171	-159.875825	-16.746544	-0.013166398477103	-0.001964585601108	-0.006803567874435
262	massimi	167.512724	131.447904	4.282908	0.017672549117684	0.00400912106783	0.007089829515353
262	minimi	-165.953963	-131.452849	-18.108059	-0.017156887625568	-0.004995113975395	-0.006832227460074
263	massimi	137.991552	131.54781	-4.259232	0.013530223643286	0.002664115641584	0.007151636681816
263	minimi	-133.859251	-131.352943	-15.338274	-0.013018492872374	-0.004497831933766	-0.006770420293611
264	massimi	111.280987	131.463368	-5.915969	0.013491368209752	0.00196007049794	0.007061539436947
264	minimi	-104.758169	-131.437385	-16.235685	-0.013274561104344	-0.003674652642218	-0.00686051753848
265	massimi	111.313123	158.827042	0.032747	0.01366055103885	0.003939228151783	0.007053589783197
265	minimi	-104.726033	-159.769219	-14.632142	-0.013266171215051	-0.001168682320417	-0.0068646719223
266	massimi	104.73805	159.027531	-0.196525	0.01334795914761	0.00390494292978	0.006915546617571
266	minimi	-97.917688	-159.568731	-14.350855	-0.013281221571099	-0.001097154661428	-0.007006510357856
267	massimi	104.705909	131.335604	-5.79299	0.013425455993855	0.001911714204603	0.006938259714234
267	minimi	-97.94983	-131.565149	-16.825558	-0.013309213408955	-0.003588196672138	-0.006983797261193
268	massimi	103.451977	159.1312	0.457295	0.013166284691102	0.003988379383222	0.006849755063039
268	minimi	-98.196903	-159.465061	-14.905707	-0.013188858774473	-0.001255942589522	-0.007072301912388
269	massimi	103.417119	131.275429	-5.118228	0.013118866799102	0.002035674947031	0.006869969426928
269	minimi	-98.23176	-131.625324	-16.979594	-0.013168562887772	-0.003706827244102	-0.007052087548499
270	massimi	109.243396	158.99376	3.865015	0.017179400949363	0.003987623336219	0.006963680033626
270	minimi	-105.744108	-159.602501	-18.024319	-0.017268105595103	-0.002390521844865	-0.006958376941801
271	massimi	109.181583	131.296964	-0.893567	0.017451647193056	0.003028170470824	0.006873558443586
271	minimi	-105.805921	-131.603789	-18.903579	-0.017518683425661	-0.00383104739877	-0.007048498531841
272	massimi	6.03289	2.642634	-6.312524	0.0110647288929553	0.006787149891035	0.000211447831451
272	minimi	-5.982245	-2.622068	-9.633578	-0.01092949428647	-0.006659336719793	-0.000203705544483
273	massimi	5.025803	1.005093	-6.312524	0.011064720829383	0.006787149891095	0.000211447831385
273	minimi	-4.99433	-0.964243	-9.633578	-0.010929494286301	-0.006659336719854	-0.000203705544419
274	massimi	4.892205	1.013894	0.036011	0.010855149207719	0.006731867561532	0.000201636809012
274	minimi	-4.856199	-0.977759	-15.843488	-0.01082195108544	-0.0065056869521	-0.000194519413681
275	massimi	4.891879	1.001683	-2.202392	0.010855748999635	0.006635531931663	0.000202150953667
275	minimi	-4.855938	-0.956389	-13.768655	-0.010822889395245	-0.006609982519921	-0.000195167660807
276	massimi	5.126582	1.001985	2.423934	0.010936392973596	0.006630085641953	0.000186311448273
276	minimi	-5.099786	-0.956641	-18.221924	-0.010702921806104	-0.006604178077734	-0.000179224834814
277	massimi	5.126258	1.011695	0.599639	0.010936992641435	0.006737315557975	0.000185799169055
277	minimi	-5.099525	-0.97561	-16.234059	-0.010703859991832	-0.00651149310102	-0.000178578453125
278	massimi	51.846359	41.591854	-6.39645	0.015574555114546	0.003700792725245	0.002264858021486
278	minimi	-51.370971	-42.010136	-9.767603	-0.01529798814761	-0.003673456757159	-0.002253427633852
279	massimi	5.285667	2.838241	-10.787836	0.010888515377752	0.005322573419577	0.000185387749179
279	minimi	-5.246054	-2.820374	-12.096245	-0.010804326357539	-0.004927784073731	-0.00018022274885
280	massimi	4.493204	1.218639	-10.787836	0.010888515377584	0.005322573419642	0.000185387749121
280	minimi	-4.51281	-1.188143	-12.096245	-0.010804326357373	-0.004927784073802	-0.000180222748794
281	massimi	4.377909	1.221757	-3.266725	0.010648113329071	0.005316146164934	0.000176661123292
281	minimi	-4.394355	-1.194449	-19.207786	-0.010711935067428	-0.004780012473898	-0.00017184102835
282	massimi	4.377514	1.209848	-4.435471	0.010648093289383	0.005166747577325	0.000177367017031
282	minimi	-4.394007	-1.176367	-18.544276	-0.010712960641857	-0.004925337534622	-0.000172647034033
283	massimi	4.579388	1.210041	-2.963746	0.010797007908968	0.005162425467244	0.000163498581507
283	minimi	-4.601977	-1.17659	-19.908259	-0.010566328976711	-0.004920792446821	-0.000158842960764
284	massimi	4.578994	1.221356	-4.34126	0.01079698690806	0.005320467466919	0.000162791973788
284	minimi	-4.60163	-1.194017	-18.02551	-0.01056735358992	-0.004784556753603	-0.0001580362411
285	massimi	42.102745	41.6594	-10.946694	0.014376595350271	0.002717423914866	0.002250433428633
285	minimi	-41.033019	-41.94259	-12.293466	-0.014181020919034	-0.00250052012174	-0.002267852226705
286	massimi	4.187592	2.830847	-11.256461	0.010803171146641	0.004450489056649	0.000166640552524
286	minimi	-4.133772	-2.81947	-12.111985	-0.010795436967462	-0.003861230881468	-0.000160274933176
287	massimi	3.526993	1.212225	-11.256461	0.010803171146475	0.004450489056696	0.000166640552472
287	minimi	-3.561562	-1.199687	-12.111985	-0.010795436967296	-0.003861230881525	-0.000160274933126
288	massimi	3.501085	1.217719	-3.526746	0.010563075237115	0.004453851089873	0.000157109824116
288	minimi	-3.531744	-1.209035	-19.254064	-0.010705218132795	-0.00372302477005	-0.000151193316402
289	massimi	3.50068	1.202798	-4.766423	0.01056237378524	0.004311462362177	0.000157923170686

289	minimi	-3.531359	-1.186489	-18.768495	-0.010706077352891	-0.003881735575674	-0.000152047822552
290	massimi	3.568616	1.202908	-3.996602	0.010714639670749	0.00430585275775	0.000148673058068
290	minimi	-3.606846	-1.186652	-19.528418	-0.010555703517369	-0.003876105486988	-0.000142911193028
291	massimi	3.568292	1.217521	-4.392573	0.010713939661192	0.004459459488137	0.000147857849231
291	minimi	-3.606542	-1.208783	-18.378338	-0.010556564179782	-0.003728653652573	-0.000142054824612
292	massimi	34.224779	41.782318	-11.427996	0.014358572268612	0.002469902668284	0.002262901027362
292	minimi	-32.635583	-41.819672	-12.303946	-0.014319238562047	-0.002160790511696	-0.002255384627976
293	massimi	3.940355	2.835139	-11.181284	0.010807480478745	0.004190715353696	0.000178349044303
293	minimi	-3.91903	-2.833757	-12.239443	-0.010810497647662	-0.003589988485116	-0.000167463557897
294	massimi	3.318568	1.214245	-11.181284	0.010807480478578	0.00419071535374	0.000178349044248
294	minimi	-3.387351	-1.213314	-12.239443	-0.010810497647496	-0.003589988485172	-0.000167463557844
295	massimi	3.315706	1.217173	-3.786988	0.010567295048273	0.004199793174824	0.000165907008173
295	minimi	-3.377787	-1.222773	-19.031376	-0.010720365251428	-0.003457332186226	-0.000155807317309
296	massimi	3.315623	1.208888	-4.526066	0.010566242192007	0.004053905023325	0.000166711217689
296	minimi	-3.377706	-1.201434	-19.061084	-0.010720903442388	-0.003613225136248	-0.00015661458049
297	massimi	3.300553	1.208792	-4.261693	0.010719258885388	0.004052279763936	0.000161350414489
297	minimi	-3.375581	-1.201445	-19.329317	-0.010570539995939	-0.003611607867941	-0.000151479579172
298	massimi	3.30045	1.21799	-4.187873	0.010718207236596	0.004201416911074	0.000160543930504
298	minimi	-3.37548	-1.223483	-18.634352	-0.010571079394373	-0.003458947931393	-0.000150670041521
299	massimi	32.580307	41.792746	-11.351287	0.014326981613132	0.002326370194123	0.002283753344375
299	minimi	-31.03625	-41.809245	-12.433674	-0.014319399329834	-0.00199528585288	-0.002234532310963
300	massimi	3.746038	2.810966	-11.153445	0.010800143709416	0.004173784157893	0.000174539540927
300	minimi	-3.798747	-2.823148	-12.153526	-0.010836295738728	-0.003717293601638	-0.000159889244549
301	massimi	3.127103	1.18654	-11.153445	0.010800143709249	0.004173784157931	0.000174539540873
301	minimi	-3.248286	-1.204145	-12.153526	-0.010836295738561	-0.003717293601687	-0.000159889244499
302	massimi	3.137644	1.184247	-4.054699	0.01056131103261	0.004187205897507	0.000160568612453
302	minimi	-3.249726	-1.210601	-18.722106	-0.010746429570875	-0.003587599097323	-0.000146959876617
303	massimi	3.138125	1.183241	-3.978005	0.010560143917316	0.004033159790693	0.000161396069808
303	minimi	-3.250179	-1.191981	-19.382998	-0.010746471487625	-0.003733701367211	-0.000147729538883
304	massimi	3.101262	1.182906	-4.262025	0.010710907574204	0.004040347699294	0.000159691827071
304	minimi	-3.230769	-1.191834	-19.145244	-0.010595781985786	-0.003740985025792	-0.000146423111917
305	massimi	3.10131	1.186007	-3.624664	0.010709740990756	0.004180023099248	0.000158861531257
305	minimi	-3.23079	-1.212173	-19.198407	-0.010595824434382	-0.003580320549083	-0.000145650611192
306	massimi	32.438993	41.846316	-11.323165	0.014251446569082	0.002268690305221	0.002296999240197
306	minimi	-31.516444	-41.755675	-12.346391	-0.014327801332916	-0.001920377232408	-0.002221286451541
307	massimi	2.818974	2.034246	8.209256	0.007889369467391	0.012455879003833	0.000158358074365
307	minimi	-2.861339	-1.946594	-21.66168	-0.007763538005282	-0.012141059730928	-0.000161025523879
308	massimi	2.817531	1.941669	0.608274	0.007886554742954	0.012489065418979	0.000159042067784
308	minimi	-2.860027	-1.85573	-14.211591	-0.007779922036429	-0.012309141333642	-0.000162034754534
309	massimi	2.815935	1.845386	-2.834227	0.007930217655785	0.012429820032821	0.000161923231748
309	minimi	-2.858571	-1.761337	-10.842302	-0.007806284463277	-0.012386123323032	-0.000164919139706
310	massimi	2.900384	1.748382	4.092205	0.007938782921831	0.012368727985008	0.000159218750099
310	minimi	-2.941377	-1.666316	-17.683308	-0.007752592417719	-0.012401447499005	-0.000162322699528
311	massimi	2.98362	1.750247	5.567001	0.007952811933041	0.012338726230359	0.000159874117068
311	minimi	-3.022951	-1.668202	-19.034502	-0.007695545200458	-0.012370351814423	-0.000162878904425
312	massimi	3.06469	1.751231	8.721319	0.007934139716496	0.012338855106907	0.00015584462593
312	minimi	-3.102328	-1.669234	-22.03031	-0.007606864949719	-0.012369211442829	-0.000158996422774
313	massimi	3.144865	1.847528	8.368185	0.007942706858678	0.012400294774046	0.000151966749439
313	minimi	-3.180792	-1.763529	-21.478462	-0.007553191266046	-0.01235426297211	-0.000155103858671
314	massimi	3.143056	1.941669	6.015939	0.007965726428293	0.012489065418979	0.000160105400974
314	minimi	-3.17912	-1.85573	-19.052592	-0.007560179970684	-0.012309141333642	-0.0001630830107
315	massimi	3.141799	2.032084	6.767684	0.008016028920671	0.012485429619001	0.00014840021861
315	minimi	-3.177996	-1.944381	-19.653855	-0.00762841159764	-0.012172945438243	-0.0001512088694
316	massimi	3.063086	2.121967	12.06283	0.007986850256433	0.012455679578278	0.000150912600166
316	minimi	-3.100865	-2.032588	-24.922901	-0.007661064940621	-0.012068122059252	-0.000153610144516
317	massimi	2.98362	2.123456	12.478061	0.007952811933041	0.012425604095122	0.000159492186949
317	minimi	-3.022951	-2.034104	-25.496613	-0.007695545200458	-0.012037212088011	-0.000162461796535
318	massimi	2.901981	2.124877	14.191883	0.007906244619944	0.012425766417538	0.000154287380884
318	minimi	-2.942832	-2.035566	-27.334067	-0.007718564664867	-0.012035845720437	-0.00015693707782
319	massimi	2.920243	1.698242	-2.69031	0.006756832325187	0.012531347612915	0.000133464327377
319	minimi	-2.83503	-1.532157	-11.570626	-0.006627661856857	-0.012302034797619	-0.000124335370128
320	massimi	2.920627	1.723044	-0.70968	0.006737156398245	0.012456030554524	0.000131101970372
320	minimi	-2.835697	-1.551206	-13.645764	-0.00662784589172	-0.012370634852364	-0.00012189700464
321	massimi	2.920965	1.74642	6.060244	0.006757468670106	0.012288522068031	0.000131800080967
321	minimi	-2.83629	-1.569184	-20.427545	-0.006629199159266	-0.01234767576068	-0.000123327885412
322	massimi	2.980919	1.768885	13.009749	0.006768854103562	0.012175947667887	0.000128325850314
322	minimi	-2.901015	-1.586356	-27.222191	-0.006574456547102	-0.01231602910876	-0.000119894976016
323	massimi	3.039643	1.768807	12.55856	0.006795425135259	0.012163478451146	0.000131600302786
323	minimi	-2.964515	-1.586204	-26.641758	-0.006525842188927	-0.012302286826564	-0.000122438590731

324	massimi	3.096184	1.768418	12.443696	0.006793901207399	0.012180884217524	0.000125179693072
324	minimi	-3.025893	-1.585759	-26.36052	-0.006450252207185	-0.012318489346599	-0.000116657423897
325	massimi	3.151853	1.746078	9.102839	0.006805032787776	0.012293393834821	0.000122512143042
325	minimi	-3.086462	-1.568746	-22.876779	-0.006395273009784	-0.012350100647621	-0.00011377023311
326	massimi	3.152003	1.723044	5.689343	0.006791673912555	0.012456030554524	0.000132095332858
326	minimi	-3.086873	-1.551206	-19.450996	-0.006364285537939	-0.012370634852364	-0.000122919165691
327	massimi	3.152606	1.698212	5.250785	0.006805448938158	0.012526495971304	0.000124279047653
327	minimi	-3.087754	-1.532224	-18.91836	-0.006396590117656	-0.012299630035857	-0.000114880376027
328	massimi	3.096575	1.679669	7.131334	0.006794267701752	0.012548044200766	0.000127693203105
328	minimi	-3.026566	-1.519658	-20.835091	-0.00645132562596	-0.012240903984158	-0.000118262646398
329	massimi	3.039643	1.679982	5.333461	0.006795425135259	0.012535329440071	0.000131777322945
329	minimi	-2.964515	-1.519871	-19.203578	-0.006525842188927	-0.01222719232151	-0.000122545276157
330	massimi	2.980536	1.679823	4.398492	0.006768396188972	0.012552948762652	0.000130804358373
330	minimi	-2.900349	-1.519682	-18.397868	-0.00657329170809	-0.012243332234246	-0.000121465196543
331	massimi	2.520177	2.426919	5.192822	0.006147819770315	0.010091355028678	0.000194850500074
331	minimi	-2.610721	-2.382924	-21.601748	-0.006191679845336	-0.009622063851652	-0.00019186125463
332	massimi	2.518867	2.333342	1.272084	0.006130958158167	0.010104567109733	0.000197477709555
332	minimi	-2.609483	-2.287518	-17.916177	-0.006199185625299	-0.009806321611833	-0.000194684271664
333	massimi	2.517423	2.23547	-1.460023	0.006170866519488	0.010042978059219	0.00019918470158
333	minimi	-2.608111	-2.187914	-15.320384	-0.006217873201376	-0.009917986499926	-0.000196370591011
334	massimi	2.592185	2.142551	-0.750211	0.006213755298262	0.009986083586941	0.000196906121827
334	minimi	-2.684438	-2.093336	-16.077316	-0.006181201984887	-0.009958897690078	-0.000194238270522
335	massimi	2.687071	2.143511	-0.16918	0.006268391513639	0.009962257328859	0.000198330148476
335	minimi	-2.780838	-2.094376	-16.61311	-0.006145232297828	-0.009934700487885	-0.000195526186091
336	massimi	2.783334	2.143542	1.354323	0.006297017772698	0.009962782601367	0.000193832498785
336	minimi	-2.878539	-2.09449	-18.046796	-0.006083764022431	-0.009934465399435	-0.000191278717067
337	massimi	2.879161	2.237138	-0.655822	0.006339509682452	0.010019951262779	0.000190114088248
337	minimi	-2.975769	-2.189703	-15.853509	-0.006046703829011	-0.009893841843766	-0.000187636605504
338	massimi	2.877099	2.333342	-2.003481	0.006357562895905	0.010104567109733	0.000198446489834
338	minimi	-2.973772	-2.287518	-14.369338	-0.006044144052584	-0.009806321611833	-0.000195617107893
339	massimi	2.875636	2.425213	2.144704	0.006384212274169	0.010114391519742	0.000185776700221
339	minimi	-2.972387	-2.381097	-18.282553	-0.006094553027595	-0.009646218202436	-0.000183124082603
340	massimi	2.781493	2.516216	7.844578	0.006325876261554	0.010097746217407	0.000187835503696
340	minimi	-2.876773	-2.47389	-23.792913	-0.006115091452806	-0.009533960119184	-0.000185039513396
341	massimi	2.687071	2.517446	8.75808	0.006268391513639	0.010073843286856	0.000197865765898
341	minimi	-2.780838	-2.475192	-24.796184	-0.006145232297828	-0.009510017494001	-0.000195043037636
342	massimi	2.593635	2.518521	10.091218	0.00619547944532	0.010074429834435	0.000190910621908
342	minimi	-2.685812	-2.476357	-26.174607	-0.006160457190426	-0.009509512431143	-0.000188000562021
343	massimi	2.846463	2.008387	-2.150259	0.00540282387604	0.010201358236813	0.000190532886429
343	minimi	-2.797115	-1.873165	-18.306698	-0.005433100933828	-0.009740955178858	-0.000181788934279
344	massimi	2.846824	2.032268	-4.518311	0.005375416661561	0.010139326354582	0.000189671456188
344	minimi	-2.797709	-1.891547	-16.152533	-0.005435971828638	-0.009896658104761	-0.00018087353132
345	massimi	2.847103	2.056189	-2.753051	0.005403133954367	0.010002234782253	0.000188862588734
345	minimi	-2.798198	-1.910261	-18.006163	-0.005435971255489	-0.009979098090086	-0.000180656467549
346	massimi	2.914518	2.079061	1.628954	0.005452284050001	0.009910254957923	0.000185281169371
346	minimi	-2.87022	-1.928017	-22.348622	-0.005384287239122	-0.010010770802614	-0.00017713543816
347	massimi	3.003331	2.078985	1.330718	0.005518735199706	0.009900251308866	0.000190222580456
347	minimi	-2.963633	-1.927902	-21.978608	-0.005336237906263	-0.010000011853675	-0.000181455025087
348	massimi	3.090249	2.078527	1.254759	0.005562299717025	0.009914564565464	0.000182047831909
348	minimi	-3.055185	-1.927415	-21.774305	-0.005266059688461	-0.010013404042242	-0.000173853808083
349	massimi	3.176635	2.055797	-1.991921	0.005611111328068	0.010006492088423	0.000179319435494
349	minimi	-3.146246	-1.909817	-18.365611	-0.005214048877169	-0.009981698952643	-0.000170970798527
350	massimi	3.176734	2.032268	-3.51857	0.005611572839603	0.010139326354582	0.000190691068827
350	minimi	-3.146558	-1.891547	-16.7503	-0.005187693157622	-0.00989665810476	-0.000181908360982
351	massimi	3.177418	2.008457	-0.201198	0.005611493381748	0.010197104732256	0.000180980220778
351	minimi	-3.147472	-1.873287	-19.854077	-0.005216991174182	-0.009738358117913	-0.000172093752845
352	massimi	3.090654	1.993726	4.122916	0.00556258572831	0.010214954618998	0.00018434990298
352	minimi	-3.055821	-1.86422	-24.036992	-0.005268354560942	-0.00963434870744	-0.000175412070303
353	massimi	3.003331	1.993959	3.481212	0.005518735199706	0.010204759825206	0.000190400972944
353	minimi	-2.963633	-1.86439	-23.523593	-0.005336237906263	-0.009623819212738	-0.000181575819519
354	massimi	2.914127	1.993654	3.253157	0.005452027934314	0.010219258188546	0.00018758767509
354	minimi	-2.869598	-1.86408	-23.367355	-0.00538202226224	-0.009636975909077	-0.000178698135028
355	massimi	3.725712	3.532731	1.576719	0.008667365671441	0.009828090837296	0.000391492559905
355	minimi	-3.596653	-3.29684	-22.471999	-0.009028458369244	-0.009580350971811	-0.000358885473841
356	massimi	3.726792	3.582067	4.242711	0.008658444521575	0.009719498825185	0.000387322352992
356	minimi	-3.597877	-3.33552	-25.200886	-0.009031647325704	-0.009570830851732	-0.000354329501452
357	massimi	3.727494	3.629425	7.104773	0.008666910451949	0.00959526999345	0.000386491342379
357	minimi	-3.598706	-3.372375	-28.096587	-0.009028443322636	-0.009545913361492	-0.000354379201614
358	massimi	3.836258	3.675961	9.35798	0.008677916688924	0.009516185432047	0.000381806035807

358	minimi	-3.717975	-3.40846	-30.461765	-0.008973049050979	-0.009533309610458	-0.000349805314619
359	massimi	3.943967	3.675742	9.108082	0.008697154270732	0.009498172491387	0.000387720572492
359	minimi	-3.836185	-3.408188	-30.290037	-0.008892781641647	-0.009527763188683	-0.000354718644061
360	massimi	4.049614	3.675478	9.350834	0.008702478654207	0.00952372120066	0.000374541119926
360	minimi	-3.9524	-3.407859	-30.581645	-0.00879828595019	-0.009541424588312	-0.000342324025729
361	massimi	4.15473	3.629141	8.984905	0.00870761453425	0.009602225752352	0.000373499159183
361	minimi	-4.068154	-3.372021	-30.230987	-0.008736886003896	-0.009553404266244	-0.000340997561509
362	massimi	4.155616	3.582067	7.567954	0.008701576249308	0.009719498825185	0.000387792600584
362	minimi	-4.069162	-3.33552	-28.780431	-0.00871885176081	-0.009570830851732	-0.000354813849473
363	massimi	4.156563	3.533009	6.211651	0.008707082860661	0.009821154611061	0.000378508724473
363	minimi	-4.070257	-3.297188	-27.3612	-0.008736794503191	-0.009572879599726	-0.0003455121815
364	massimi	4.050696	3.483018	2.59361	0.008702001257544	0.009892990480692	0.000383396918507
364	minimi	-3.953643	-3.258	-23.631188	-0.008798215240222	-0.009578293430946	-0.000350288955957
365	massimi	3.943967	3.482908	0.329105	0.008697154270732	0.009902332537872	0.000387394381485
365	minimi	-3.836185	-3.257815	-21.317802	-0.008892781641647	-0.009575995942543	-0.000354424707265
366	massimi	3.83519	3.482554	-0.929427	0.008678351765336	0.009900490961251	0.000390608607753
366	minimi	-3.716747	-3.257418	-19.981125	-0.008973077440696	-0.009586373120747	-0.000357717018211
367	massimi	2.042107	2.474366	2.637476	0.005957931153534	0.00828976153829	0.000219154866834
367	minimi	-2.143994	-2.463653	-19.234992	-0.006103023189827	-0.007672158154549	-0.000216958926787
368	massimi	2.041347	2.370807	-0.075995	0.005933386974998	0.008277174164487	0.000224036396609
368	minimi	-2.143252	-2.358764	-16.848068	-0.006103961582561	-0.007834159104182	-0.0002220138658
369	massimi	2.04092	2.264285	-1.773533	0.005962714330303	0.008203322186688	0.000223583351562
369	minimi	-2.142845	-2.250937	-15.375783	-0.006112480349071	-0.007938175607323	-0.000221433440884
370	massimi	2.067578	2.173184	-1.51376	0.006004319536342	0.008145238213032	0.000222190846435
370	minimi	-2.170688	-2.158583	-15.825233	-0.006072276451213	-0.007980969685321	-0.00022017450836
371	massimi	2.095274	2.173763	-1.848315	0.006062076731139	0.008128874835247	0.000224770344787
371	minimi	-2.199516	-2.159254	-15.499643	-0.006036682845495	-0.007964854927624	-0.000222728896391
372	massimi	2.172615	2.173389	-0.761198	0.006094678399974	0.00813242447679	0.000220016926644
372	minimi	-2.277903	-2.158969	-16.549948	-0.005976039151477	-0.007967922688163	-0.000218127400558
373	massimi	2.257418	2.26448	-1.367378	0.006135895935783	0.008190661038915	0.000217167426944
373	minimi	-2.363711	-2.251267	-15.726045	-0.005935449210639	-0.007925283970895	-0.000215391747864
374	massimi	2.25579	2.370807	-1.752194	0.006145954509844	0.008277174164487	0.000224721695044
374	minimi	-2.362095	-2.358764	-15.115937	-0.005924824515688	-0.007834159104182	-0.000222659204974
375	massimi	2.254673	2.473369	1.049828	0.006162384753114	0.008302421606762	0.000212735326912
375	minimi	-2.361003	-2.46252	-17.591452	-0.005966612010445	-0.007685048711675	-0.000210913618463
376	massimi	2.171188	2.575016	4.832389	0.006110701061672	0.008300190537697	0.000213889188504
376	minimi	-2.276496	-2.56542	-21.038189	-0.005995729188823	-0.007585179706447	-0.000211936004576
377	massimi	2.095274	2.575754	5.235004	0.006062076731139	0.008283732260472	0.000224295841753
377	minimi	-2.199516	-2.566243	-21.477545	-0.006036682845495	-0.007569310028872	-0.0002224946363
378	massimi	2.068492	2.576372	6.273742	0.006000419833403	0.008287378515885	0.000216064802601
378	minimi	-2.171581	-2.566957	-22.507389	-0.006064709372626	-0.007572134423719	-0.000213984806684
379	massimi	2.278791	2.01446	-3.52691	0.005251956911645	0.008144225207998	0.000233270465366
379	minimi	-2.255933	-1.938303	-18.905339	-0.00548408253542	-0.007562881793873	-0.000229189393892
380	massimi	2.278241	2.042486	-5.169965	0.005222292695405	0.008064388938332	0.000235297010009
380	minimi	-2.255513	-1.963764	-17.543318	-0.005488187096984	-0.007725724141358	-0.000231216747172
381	massimi	2.277738	2.071508	-3.889574	0.0052518199664	0.007924881096796	0.000231806063437
381	minimi	-2.255128	-1.990384	-18.9645	-0.005487518633988	-0.007831402438299	-0.000228025886265
382	massimi	2.305656	2.099617	-1.840075	0.005309366326674	0.007831809709144	0.000229148536072
382	minimi	-2.285173	-2.016147	-21.121408	-0.005432076687556	-0.007877036454916	-0.000225406276179
383	massimi	2.334027	2.099677	-2.34088	0.005385118134672	0.007818841777682	0.000235744158008
383	minimi	-2.315666	-2.016187	-20.649333	-0.005379741762198	-0.007864217490878	-0.000231680724721
384	massimi	2.418994	2.099376	-1.911774	0.005438534482868	0.007825153709775	0.000226838595434
384	minimi	-2.402771	-2.015874	-21.043813	-0.005305093700287	-0.007870331069728	-0.000223073999482
385	massimi	2.508868	2.071331	-3.88862	0.005495756218696	0.007918306820007	0.000224990023517
385	minimi	-2.494804	-1.990184	-18.953622	-0.005249327473786	-0.007824779362661	-0.00022114393066
386	massimi	2.508871	2.042486	-5.058278	0.005498698067459	0.008064388938332	0.000236024634581
386	minimi	-2.494926	-1.963764	-17.643162	-0.005222100121273	-0.007725724141358	-0.000231951409846
387	massimi	2.509426	2.014372	-2.596148	0.005495677590697	0.008150790276259	0.000226458093016
387	minimi	-2.495609	-1.938238	-19.824267	-0.0052528218896	-0.007569495660984	-0.000222311125858
388	massimi	2.419277	1.995079	0.253878	0.005438461745425	0.008185042331645	0.000228867598852
388	minimi	-2.403183	-1.921597	-22.364479	-0.005307824504589	-0.007467517715951	-0.000224686900106
389	massimi	2.334027	1.995381	-0.397329	0.005385118134672	0.008171863634218	0.00023590116925
389	minimi	-2.315666	-1.921868	-21.747842	-0.005379741762198	-0.007454958991953	-0.000231805514361
390	massimi	2.306189	1.995119	0.073472	0.005309463291316	0.008178400957451	0.000231175804108
390	minimi	-2.285576	-1.921605	-22.189969	-0.005429370110452	-0.007460826955938	-0.00022701744142
391	massimi	3.070777	4.127059	-1.420523	0.004787471751295	0.007912956485798	0.000297724323035
391	minimi	-2.992938	-3.904493	-24.294117	-0.004995475226441	-0.007298926583299	-0.000288884021377
392	massimi	3.070712	4.155963	0.443544	0.00477602763942	0.007809297894104	0.000294988191203
392	minimi	-2.992998	-3.930499	-26.335753	-0.004999723291756	-0.007318379212577	-0.000286123372

393	massimi	3.070531	4.182514	2.345147	0.004787276516516	0.007693098450535	0.000292932898195
393	minimi	-2.992939	-3.954293	-28.378554	-0.004996733492958	-0.00732608167954	-0.000284545216672
394	massimi	3.069065	4.20806	3.786711	0.004829061152625	0.007616423743233	0.000289223593967
394	minimi	-2.994232	-3.977139	-29.980652	-0.004955943167723	-0.00733209706333	-0.000280959071866
395	massimi	3.067637	4.208025	3.803641	0.004893199166403	0.007595451355525	0.000295290096298
395	minimi	-2.99556	-3.977063	-30.016687	-0.00489590163271	-0.007326505427432	-0.000286415243807
396	massimi	3.114493	4.207879	3.996483	0.004949586412331	0.007614355393601	0.000284750300009
396	minimi	-3.045216	-3.976879	-30.192179	-0.004828104977165	-0.007330036715101	-0.0002933518082215
397	massimi	3.169496	4.182407	2.184239	0.004988186537613	0.00769118932826	0.000284874397107
397	minimi	-3.103068	-3.954139	-28.221158	-0.004784128271776	-0.007324179949961	-0.000276226272892
398	massimi	3.170366	4.155963	0.189791	0.004991267220337	0.007809297894104	0.000295280286139
398	minimi	-3.104057	-3.930499	-26.085513	-0.004772965774785	-0.007318379212577	-0.000286424896357
399	massimi	3.17123	4.127167	-1.749266	0.004987887717996	0.007914860088473	0.000289648964184
399	minimi	-3.105048	-3.904648	-23.968886	-0.004785282953455	-0.007300822793279	-0.000280548219835
400	massimi	3.115512	4.097306	-3.748339	0.004949328153574	0.007986349436688	0.0002933518082215
400	minimi	-3.046381	-3.877796	-21.80928	-0.004829189644473	-0.007289961015802	-0.000284127924935
401	massimi	3.067637	4.097327	-3.884804	0.004893199166403	0.007992256527956	0.000294978368983
401	minimi	-2.99556	-3.877771	-21.690082	-0.00489590163271	-0.007281313501975	-0.000286133012489
402	massimi	3.069193	4.097124	-3.846523	0.004829262129431	0.007984291056653	0.000297841965414
402	minimi	-2.994213	-3.877535	-21.709341	-0.004954801218466	-0.007287910637169	-0.000288762757416
403	massimi	1.927575	2.476843	1.332893	0.005970965920841	0.007945019900686	0.000202643350803
403	minimi	-2.065485	-2.471994	-17.919078	-0.006131204955156	-0.007340819168291	-0.00021014798857
404	massimi	1.927488	2.376733	-0.946551	0.005938871295906	0.007923019928305	0.000208520489653
404	minimi	-2.065384	-2.37667	-15.957847	-0.006124480549829	-0.007493353340567	-0.000216503430719
405	massimi	1.927497	2.273965	-1.643321	0.005958252516339	0.007842404403913	0.000207119124889
405	minimi	-2.065407	-2.278688	-15.478038	-0.006123024701513	-0.007590453284015	-0.000214624004035
406	massimi	1.93821	2.185488	-1.212044	0.005997617498106	0.007783737285143	0.000206584159388
406	minimi	-2.071935	-2.195063	-16.099028	-0.006080612329714	-0.00763259496297	-0.000214238676488
407	massimi	1.95	2.185701	-2.00198	0.006057616474356	0.007772711561863	0.000209110556017
407	minimi	-2.079494	-2.195376	-15.326354	-0.006047365305104	-0.007621871314446	-0.000217074156253
408	massimi	1.962115	2.184968	-1.286137	0.006092477054345	0.007780766019144	0.000205271641834
408	minimi	-2.087271	-2.194766	-16.013694	-0.005989022447998	-0.007629529532683	-0.000213083689775
409	massimi	1.981287	2.273609	-1.541179	0.006131456598471	0.007839468317425	0.000203245043691
409	minimi	-2.102033	-2.278499	-15.557616	-0.005946225295456	-0.007587424152364	-0.000211214808052
410	massimi	1.980794	2.376733	-1.031014	0.006130509668583	0.007923019928305	0.000208934409742
410	minimi	-2.101544	-2.37667	-15.850804	-0.005924491886725	-0.007493353340567	-0.000216867711842
411	massimi	1.98053	2.476529	1.362216	0.006137871111299	0.007947956445423	0.000198764849168
411	minimi	-2.101276	-2.471513	-17.925838	-0.005957172959144	-0.00734384875819	-0.00020673437215
412	massimi	1.961897	2.57512	4.922866	0.006093503763101	0.007948778962095	0.000199077765552
412	minimi	-2.087053	-2.565196	-21.150657	-0.005993606030824	-0.007247003395206	-0.000206889479669
413	massimi	1.95	2.575405	4.516613	0.006057616474356	0.007937650679787	0.000208630942675
413	minimi	-2.079494	-2.565603	-20.772837	-0.006047365305104	-0.007236517099892	-0.000216594517059
414	massimi	1.938315	2.575555	5.125207	0.006007479142915	0.00794580696845	0.000200392355313
414	minimi	-2.072039	-2.565855	-21.364239	-0.006086917100453	-0.007243937237275	-0.000208046538589
415	massimi	2.128639	2.021361	-3.749127	0.005247124416695	0.007815178138709	0.000208022490979
415	minimi	-2.149439	-1.98162	-18.984299	-0.005568594732216	-0.007233780128399	-0.000210714152847
416	massimi	2.12843	2.036901	-5.168973	0.005216333959648	0.007733175611174	0.000210958312317
416	minimi	-2.149285	-1.998869	-17.844145	-0.005571942952944	-0.007398675876616	-0.000213837818724
417	massimi	2.128328	2.055679	-4.696508	0.005244002850698	0.00759397516899	0.000206673774348
417	minimi	-2.149247	-2.019434	-18.453556	-0.005569002267023	-0.00750885039281	-0.000209510794465
418	massimi	2.139223	2.0736	-2.610806	0.005300655174737	0.007502669468963	0.000204965730408
418	minimi	-2.158576	-2.039187	-20.689098	-0.005510554709128	-0.007558817177978	-0.000207850209772
419	massimi	2.150802	2.073751	-2.99435	0.005376200581629	0.007492060703306	0.00021124711926
419	minimi	-2.168583	-2.039344	-20.381483	-0.005455823270906	-0.007548738304368	-0.000214132976859
420	massimi	2.162259	2.073496	-2.544642	0.005430656196511	0.007499943736894	0.000203594193937
420	minimi	-2.178452	-2.039114	-20.842575	-0.005379671439119	-0.007556822837146	-0.000206500303441
421	massimi	2.180238	2.055599	-4.293242	0.00548935399003	0.007591286298802	0.000202626602779
421	minimi	-2.194834	-2.019378	-19.032074	-0.00532326425056	-0.007506884220984	-0.000205527455354
422	massimi	2.179993	2.036901	-5.163322	0.005493137709791	0.007733175611174	0.000211390403147
422	minimi	-2.194652	-1.998869	-18.025175	-0.005296045450697	-0.007398675876616	-0.000214263093888
423	massimi	2.179987	2.021241	-3.286266	0.00549003327456	0.007817851304963	0.000203976682179
423	minimi	-2.194703	-1.981476	-19.622412	-0.005327472635893	-0.00723573059629	-0.000206732176506
424	massimi	2.162068	2.01053	-0.320177	0.005431178139217	0.007852723197358	0.000205461139466
424	minimi	-2.178324	-1.96907	-22.232446	-0.005382962444266	-0.007131765691007	-0.000208166221586
425	massimi	2.150802	2.010782	-0.705601	0.005376200581629	0.007841910752881	0.000211391622986
425	minimi	-2.168583	-1.969337	-21.835584	-0.005455823270906	-0.007121963008219	-0.000214261913701
426	massimi	2.139398	2.010513	-0.118727	0.005303101019664	0.007850022406709	0.000206832033379
426	minimi	-2.158688	-1.969084	-22.346584	-0.005510231491613	-0.007129796291596	-0.000209515485359
427	massimi	2.610397	3.745038	-2.160896	0.005663104821613	0.006629920449932	0.000623128762125

427	minimi	-2.488656	-3.707973	-25.688175	-0.006447213218632	-0.006505573415303	-0.000616787069672
428	massimi	2.610585	3.789	-0.701864	0.005651379819925	0.006534594347576	0.000625023687978
428	minimi	-2.488865	-3.749836	-27.163791	-0.006451390380793	-0.006544680456187	-0.0006184148447
429	massimi	2.610306	3.831251	0.896524	0.005663255471655	0.006428834328145	0.000619016377861
429	minimi	-2.488608	-3.790013	-28.739046	-0.006447334005944	-0.006573337334983	-0.000612753306367
430	massimi	2.782342	3.872953	2.463784	0.005703826833808	0.006358756798749	0.000615567923081
430	minimi	-2.662689	-3.82964	-30.484895	-0.006397775812654	-0.006593517439044	-0.000609241890074
431	massimi	2.954101	3.87298	2.49547	0.005766252214348	0.006339661122725	0.000625305365431
431	minimi	-2.836523	-3.829603	-30.718045	-0.006325475431637	-0.006591624311071	-0.000618701651366
432	massimi	3.124699	3.872943	2.668475	0.005819515833948	0.00635608900106	0.000611036072637
432	minimi	-3.009269	-3.829501	-31.052704	-0.00624311258662	-0.006592505377226	-0.000604474001695
433	massimi	3.295183	3.83125	1.233254	0.005856300057328	0.00642637296056	0.000610863695642
433	minimi	-3.181944	-3.789936	-29.802632	-0.006189380433416	-0.006572405743025	-0.000604175771691
434	massimi	3.295052	3.789	-0.457723	0.005858977224823	0.006534594347576	0.000625318660819
434	minimi	-3.181829	-3.749836	-28.134882	-0.006175193595428	-0.006544680456187	-0.000618725199477
435	massimi	3.295154	3.745026	-1.963324	0.00585637860382	0.006632371655116	0.000614987089512
435	minimi	-3.181958	-3.708037	-26.612603	-0.006189429117179	-0.006506494844859	-0.000608220544601
436	massimi	3.124674	3.70063	-3.713381	0.005819601382672	0.006698281130069	0.000618453588794
436	minimi	-3.009269	-3.665818	-24.683958	-0.006243170544423	-0.006482013749434	-0.000611750005396
437	massimi	2.954101	3.700767	-3.822443	0.005766252214348	0.00670386070958	0.00062503701714
437	minimi	-2.836523	-3.665887	-24.413243	-0.006325475431637	-0.006472029707663	-0.000618438426585
438	massimi	2.782385	3.700664	-3.847786	0.005703701363678	0.006696531689198	0.000622974431132
438	minimi	-2.662707	-3.665723	-24.186434	-0.006397677933444	-0.006481020044434	-0.00061650688567
439	massimi	1.849517	2.500132	1.109667	0.005973053988726	0.007956093584049	0.000209476189206
439	minimi	-2.043985	-2.502973	-17.581139	-0.006173167788216	-0.007532653044959	-0.000231276737399
440	massimi	1.85058	2.371155	-1.15202	0.005942115714702	0.007929870564186	0.000217200482631
440	minimi	-2.04499	-2.387797	-15.525471	-0.006166275698663	-0.007679321653685	-0.000239937596479
441	massimi	1.851884	2.243184	-1.601721	0.005962262190237	0.007845003331129	0.000214051325079
441	minimi	-2.0463	-2.273593	-15.181823	-0.006165019378906	-0.0077692011552	-0.000235788266308
442	massimi	1.825813	2.122769	-0.851011	0.006000327721865	0.007788494532179	0.000214461878828
442	minimi	-2.008128	-2.16703	-16.033916	-0.006122490688036	-0.007811650112467	-0.000236376940483
443	massimi	1.801103	2.122699	-1.850287	0.006058297331989	0.007785840674903	0.000217651291543
443	minimi	-1.971278	-2.167079	-15.074145	-0.006089141567478	-0.007809272714917	-0.00024036797618
444	massimi	1.790964	2.121543	-1.283903	0.00609112471149	0.007802323444772	0.000214104025796
444	minimi	-1.948859	-2.166099	-15.634847	-0.006030522148299	-0.007825762351321	-0.000236226108186
445	massimi	1.787438	2.242286	-1.247836	0.006128814272989	0.007858659404057	0.000212994499297
445	minimi	-1.932936	-2.272914	-15.603597	-0.005987615510789	-0.007783137187107	-0.000235342374093
446	massimi	1.78746	2.371155	0.090542	0.006119263323005	0.007929870564186	0.000217313558766
446	minimi	-1.932954	-2.387797	-16.835972	-0.00595650954805	-0.007679321653685	-0.000239985439069
447	massimi	1.787602	2.500523	2.150181	0.006118807986022	0.007942468134111	0.000208415124466
447	minimi	-1.933048	-2.503145	-18.689541	-0.005980252613001	-0.00751874763604	-0.000230826606227
448	massimi	1.791139	2.628522	5.875179	0.006083172774036	0.007940891443723	0.00020777276278
448	minimi	-1.949007	-2.617155	-22.168797	-0.006024644309572	-0.007420040714357	-0.00022998281253
449	massimi	1.801103	2.628265	4.880755	0.006058297331989	0.007938118008954	0.000217161054369
449	minimi	-1.971278	-2.617077	-21.180014	-0.006089141567478	-0.007417879560668	-0.000239884551288
450	massimi	1.824627	2.628003	5.049397	0.006008511171307	0.007954671712551	0.000208132603736
450	minimi	-2.006969	-2.61693	-21.309192	-0.00612860003875	-0.007434104309445	-0.000230135632752
451	massimi	1.939415	2.006028	-4.16285	0.005168764041144	0.007844015912408	0.000213498376826
451	minimi	-1.984606	-2.008921	-18.068223	-0.005587319894538	-0.007425180984754	-0.000217422143391
452	massimi	1.939789	2.042681	-5.275092	0.005140216670011	0.007756912675806	0.000217796103663
452	minimi	-1.984966	-2.048062	-17.136191	-0.005591082915825	-0.00757938426961	-0.000221904501338
453	massimi	1.940397	2.078943	-4.393131	0.005168209648492	0.007612439573323	0.00021130158626
453	minimi	-1.985571	-2.086801	-18.059062	-0.005588638494825	-0.00767753213363	-0.000215033358038
454	massimi	1.917936	2.118367	-1.373405	0.005221903532022	0.007521539593898	0.000210339419732
454	minimi	-1.960935	-2.12872	-21.189299	-0.00553005002697	-0.0077241075507	-0.000214285010459
455	massimi	1.896113	2.118549	-2.121275	0.005293258476088	0.007517184191521	0.000217872326934
455	minimi	-1.936926	-2.128934	-20.57257	-0.005474955061229	-0.007720566716609	-0.000221974617771
456	massimi	1.880323	2.118421	-1.815331	0.005342677733573	0.007531406977443	0.000210028031054
456	minimi	-1.918915	-2.128845	-20.946617	-0.005397169986088	-0.00773564394708	-0.00021402327077
457	massimi	1.86576	2.078975	-3.980574	0.005396073416145	0.007622183001115	0.000210133086952
457	minimi	-1.902107	-2.086886	-18.871539	-0.005338271678898	-0.007688924737376	-0.000214182804928
458	massimi	1.865627	2.042681	-4.672165	0.005397891282244	0.007756912675806	0.000217902736081
458	minimi	-1.901969	-2.048062	-18.139327	-0.0057938426961	-0.00757938426961	-0.000221995489337
459	massimi	1.865569	2.005885	-3.636541	0.00539551079184	0.007834295998817	0.000212498127447
459	minimi	-1.901899	-2.008725	-18.994451	-0.005339582047532	-0.007413811895209	-0.000216568412576
460	massimi	1.880224	1.974795	0.190524	0.005342237620945	0.007868435744648	0.000213169870339
460	minimi	-1.918808	-1.975102	-22.509529	-0.005398199492689	-0.007311753709009	-0.000217193553993
461	massimi	1.896113	1.975064	-0.595285	0.005293258476088	0.0078638473606	0.000218125782934
461	minimi	-1.936926	-1.975413	-21.655589	-0.005474955061229	-0.007308448737124	-0.00022230276373

462	massimi	1.917417	1.974724	-0.323684	0.00522234022461	0.007878265782119	0.000213509045204
462	minimi	-1.960425	-1.975102	-21.796077	-0.005529017100328	-0.007323252759315	-0.000217483079869
463	massimi	2.204787	3.200186	-1.326588	0.007507554179844	0.005149173751264	0.000811369640075
463	minimi	-1.951945	-3.333895	-24.880576	-0.008532486874396	-0.006077130189795	-0.000797857003814
464	massimi	2.205061	3.234578	0.084238	0.007496455271075	0.005062114475178	0.000816898741373
464	minimi	-1.952148	-3.363814	-25.967773	-0.008534431709474	-0.006115910412768	-0.000802613034797
465	massimi	2.204707	3.269009	1.529525	0.007509760392033	0.004967004651082	0.000810229564641
465	minimi	-1.951724	-3.393692	-27.052432	-0.00853157303062	-0.006144942809798	-0.000796457486118
466	massimi	2.459544	3.304275	2.754652	0.007544680704134	0.00490500387082	0.000807814022201
466	minimi	-2.211036	-3.424335	-28.199558	-0.008482639870444	-0.006166739561766	-0.000793742299516
467	massimi	2.71575	3.30439	2.792524	0.00759830455075	0.004890836128723	0.000817096173639
467	minimi	-2.4718	-3.424325	-28.520169	-0.008412256396752	-0.006168180699657	-0.000802834877832
468	massimi	2.970976	3.304452	3.247431	0.007639770700111	0.00490693555272	0.000802895385665
468	minimi	-2.731736	-3.424245	-29.220857	-0.008328404248548	-0.006171081174491	-0.000788333932048
469	massimi	3.226072	3.269126	2.22983	0.007669565052136	0.004968780146832	0.0008013784486
469	minimi	-2.991609	-3.39365	-28.810679	-0.008273782108428	-0.006148944900684	-0.000786724887235
470	massimi	3.226144	3.234578	0.610233	0.00767021234444	0.005062114475178	0.000817219101923
470	minimi	-2.9916	-3.363814	-27.551848	-0.008256909101538	-0.006115910412768	-0.000802965309752
471	massimi	3.226632	3.200042	-0.962486	0.007671727252278	0.005147425428958	0.000802523976267
471	minimi	-2.992027	-3.333909	-26.302621	-0.008272824252605	-0.006073155272352	-0.000788129857164
472	massimi	2.971298	3.166918	-2.874384	0.007641776544778	0.005205969123252	0.000804954861162
472	minimi	-2.731974	-3.305357	-24.468724	-0.008327527395766	-0.006046989175938	-0.000790860386221
473	massimi	2.71575	3.167149	-3.327239	0.00759830455075	0.005213639250337	0.000817021698366
473	minimi	-2.4718	-3.305452	-23.770266	-0.008412256396752	-0.00603970413997	-0.000802743495427
474	massimi	2.459575	3.167188	-3.289939	0.007542650490091	0.005207851724178	0.00080986804866
474	minimi	-2.211151	-3.30536	-23.524649	-0.008483492353849	-0.006051281707688	-0.00079626330465
475	massimi	2.055246	1.918696	6.141805	0.007657575473203	0.008424961682106	0.000172095986315
475	minimi	-2.350695	-1.980867	-20.962337	-0.007999448864107	-0.008144914877851	-0.000164958301055
476	massimi	2.05628	1.939057	4.860037	0.007611404782111	0.008419266296526	0.000177144466085
476	minimi	-2.351637	-1.996873	-19.803418	-0.007973888858928	-0.008293666872136	-0.000170307205528
477	massimi	2.057421	1.96744	4.457129	0.007628465112119	0.008351486293313	0.00017210779651
477	minimi	-2.352689	-2.020781	-19.434102	-0.007971663626165	-0.008381264207905	-0.000164749142295
478	massimi	2.066247	1.999725	2.453168	0.007675760128084	0.008305648781652	0.000172098585046
478	minimi	-2.365545	-2.048661	-17.548963	-0.007946906357282	-0.008423670662539	-0.000165060961159
479	massimi	2.075144	1.998689	-1.038947	0.007752634486533	0.008305525849544	0.000177253842962
479	minimi	-2.378328	-2.047904	-14.181312	-0.007942753683968	-0.008424422307833	-0.000170341903927
480	massimi	2.083377	1.997336	-1.946197	0.007797338305502	0.00832573952763	0.000172188908621
480	minimi	-2.390194	-2.046797	-13.358078	-0.007905641079414	-0.008445507788682	-0.000165520111437
481	massimi	2.091767	1.96567	-1.285489	0.007844223610088	0.008371395747191	0.000172369958316
481	minimi	-2.402089	-2.019402	-14.109942	-0.007880461916242	-0.008402899286548	-0.000166099739103
482	massimi	2.092811	1.939057	1.271908	0.007823321553988	0.008419266296526	0.00017711766618
482	minimi	-2.403023	-1.996873	-16.634052	-0.007839336051978	-0.008293666872136	-0.000170164185991
483	massimi	2.09404	1.920024	5.223516	0.007815699679408	0.008404854564433	0.000172335853698
483	minimi	-2.40418	-1.981803	-20.462506	-0.007853263108704	-0.008123082135413	-0.000166286603441
484	massimi	2.084558	1.899611	8.63462	0.007774849668064	0.008389093463301	0.000172151714722
484	minimi	-2.391281	-1.965442	-23.625518	-0.007884192181506	-0.008019974133407	-0.00016578851388
485	massimi	2.075144	1.899	8.208904	0.007752634486533	0.008389077353707	0.000177251381188
485	minimi	-2.378328	-1.965091	-23.115765	-0.007942753683968	-0.008021133319089	-0.000170363107843
486	massimi	2.06509	1.897838	8.465717	0.00769849498131299	0.008409498131299	0.000172071847457
486	minimi	-2.364483	-1.964194	-23.248135	-0.007968598891091	-0.00804212518157	-0.000165339819912
487	massimi	2.427579	1.858891	-1.172216	0.006305006509279	0.008254013854415	0.000276814606013
487	minimi	-2.447438	-1.912368	-17.861378	-0.006844278571337	-0.008064389546253	-0.000280084058229
488	massimi	2.427901	1.744974	-1.251495	0.006274742272032	0.008150186160971	0.000288406950916
488	minimi	-2.447669	-1.800506	-17.83178	-0.006840098670796	-0.008165053247878	-0.000291693724042
489	massimi	2.428599	1.631184	1.04634	0.006305288186197	0.007986102681712	0.000281078960951
489	minimi	-2.448285	-1.688658	-20.061415	-0.006844403394772	-0.008205351085705	-0.000284136168997
490	massimi	2.379845	1.521042	3.930863	0.006356568475102	0.007884320124146	0.000282618324525
490	minimi	-2.397813	-1.58042	-23.037757	-0.006800622772979	-0.008219581213069	-0.000285652491691
491	massimi	2.332109	1.521682	2.98928	0.006427342431669	0.007880910021909	0.000288691911032
491	minimi	-2.348361	-1.581078	-22.308137	-0.0067651891814	-0.00821750595874	-0.000291966459834
492	massimi	2.285321	1.521433	2.543912	0.006471526395977	0.007896975250929	0.000283514920233
492	minimi	-2.299844	-1.58084	-22.021282	-0.006701762823275	-0.008235339703413	-0.000286568858249
493	massimi	2.253773	1.631454	-1.348603	0.006522525531474	0.00799861851283	0.000283725056664
493	minimi	-2.26655	-1.688949	-18.410084	-0.006657679407669	-0.008220933395675	-0.000286840610239
494	massimi	2.25355	1.744974	-2.6363	0.006521219368146	0.008150186160971	0.00028812434283
494	minimi	-2.266243	-1.800506	-17.191126	-0.006628464760577	-0.008165053247878	-0.000291404886154
495	massimi	2.253457	1.858587	-2.556453	0.006522623301477	0.008241459825092	0.00027946201765
495	minimi	-2.26606	-1.912043	-17.220752	-0.006657620324189	-0.008048769038079	-0.000282789815396
496	massimi	2.285745	1.976719	-0.644653	0.006471636774135	0.008283596957559	0.000277618731652

496	minimi	-2.300177	-2.028052	-18.86981	-0.006701750128414	-0.007974747958621	-0.000280966198866
497	massimi	2.332109	1.976661	-1.402802	0.006427342431669	0.00827997088938	0.000288235304175
497	minimi	-2.348361	-2.028019	-17.953151	-0.0067651891814	-0.007972854482273	-0.000291532582891
498	massimi	2.379332	1.97672	-1.060877	0.006356381706996	0.008296312756806	0.000276721519982
498	minimi	-2.397391	-2.028081	-18.083111	-0.00680055907789	-0.007990567121429	-0.000280049216347
499	massimi	3.313062	3.13555	-1.590579	0.005407723744583	0.006623897328845	0.000223404769884
499	minimi	-3.232471	-3.477146	-15.363502	-0.00696330354934	-0.006881446787878	-0.000254151597465
500	massimi	3.313391	3.152143	0.248057	0.005402163130781	0.006558925698097	0.000226422850552
500	minimi	-3.232596	-3.503733	-17.104231	-0.006966107882	-0.006897725507537	-0.000257028871279
501	massimi	3.313661	3.167075	2.384861	0.005410101360842	0.006483411799766	0.000220353678994
501	minimi	-3.232685	-3.528439	-19.11895	-0.006964678054533	-0.006902916277646	-0.000250394687367
502	massimi	3.280284	3.181397	4.354116	0.005424086519318	0.00643420477428	0.000219822242309
502	minimi	-3.189462	-3.552429	-21.439307	-0.006923792433477	-0.006908831830889	-0.000249500179273
503	massimi	3.246237	3.181586	4.55155	0.005445675819038	0.006420180289104	0.000226465856999
503	minimi	-3.145647	-3.55256	-22.109422	-0.006864069844705	-0.006906673226845	-0.000257101455649
504	massimi	3.210501	3.181681	5.023228	0.005458562650189	0.006434114067384	0.000221553696901
504	minimi	-3.100206	-3.552603	-23.029421	-0.006793360275916	-0.006912940674003	-0.000251029698473
505	massimi	3.174148	3.167238	3.60006	0.005468880770034	0.006483318427074	0.000223458970252
505	minimi	-3.05413	-3.528536	-22.177721	-0.006747826496744	-0.006906702973848	-0.000253136508459
506	massimi	3.17457	3.152143	1.689956	0.005467725953731	0.006558925698097	0.000226310914375
506	minimi	-3.054368	-3.503733	-20.389942	-0.006734939784525	-0.006897725507537	-0.000256930094671
507	massimi	3.174792	3.135399	-0.160274	0.005471188947819	0.006624019083674	0.000226482806588
507	minimi	-3.054389	-3.477061	-18.637379	-0.006749131563463	-0.006877688473813	-0.000256866164003
508	massimi	3.210877	3.118024	-2.25162	0.005460708229983	0.006668757214623	0.000227007701391
508	minimi	-3.100353	-3.44963	-16.194931	-0.006794579056402	-0.006866750193186	-0.000257754130215
509	massimi	3.246237	3.118226	-2.781223	0.005445675819038	0.006671744844355	0.000226267895691
509	minimi	-3.145647	-3.449793	-15.217065	-0.006864069844705	-0.006861506861671	-0.000256857498064
510	massimi	3.279921	3.118268	-3.230694	0.005421902493498	0.006668615246223	0.000225303517482
510	minimi	-3.189328	-3.449763	-14.294856	-0.006922535206966	-0.006870807774796	-0.000256251881699
511	massimi	3.391769	3.59114	-5.465764	0.008879219636455	0.004721917577569	0.000358633631968
511	minimi	-3.797314	-3.531613	-18.354017	-0.009164317092899	-0.003301593032906	-0.00033904305029
512	massimi	3.392609	3.6781	-4.503759	0.008866815937803	0.004637027277499	0.00035963209028
512	minimi	-3.798206	-3.612296	-19.757005	-0.009167782927814	-0.003331170120945	-0.000340641748423
513	massimi	3.393253	3.76313	-3.528167	0.008879635246325	0.004544675913782	0.000352351484912
513	minimi	-3.798871	-3.691091	-21.139541	-0.009168599056078	-0.00335328940125	-0.000332893004889
514	massimi	3.42291	3.84726	-3.403413	0.008911090391133	0.004483290239501	0.000349598353915
514	minimi	-3.834898	-3.769041	-21.719625	-0.009122672179619	-0.003371712296141	-0.000330528511007
515	massimi	3.452242	3.845986	-3.150783	0.008967607823512	0.004467509197195	0.000359855870028
515	minimi	-3.870458	-3.768002	-22.019984	-0.009061831489551	-0.003371173757603	-0.000340833867516
516	massimi	3.480223	3.844739	-2.490516	0.009022689707399	0.004481182105524	0.000349012427656
516	minimi	-3.904407	-3.766979	-22.693704	-0.008999403491298	-0.003369883137534	-0.000330782157312
517	massimi	3.508067	3.761631	-0.807846	0.009059817048145	0.004542721642281	0.000351290619881
517	minimi	-3.938106	-3.689864	-23.982331	-0.008959083635182	-0.003353692882045	-0.000333343314184
518	massimi	3.508889	3.6781	-1.320771	0.009056902047209	0.004637027277499	0.000359670779435
518	minimi	-3.938967	-3.612296	-23.062478	-0.008944008424618	-0.003331170120945	-0.000340625724966
519	massimi	3.509634	3.592641	-1.818612	0.009054410504617	0.004725226092125	0.000357557391284
519	minimi	-3.939746	-3.532841	-22.123637	-0.008957543444963	-0.003304643795166	-0.000339477983932
520	massimi	3.481145	3.506107	-5.064526	0.009017712810212	0.004785157066712	0.000360298374436
520	minimi	-3.905372	-3.452382	-18.422392	-0.00897998814271	-0.003287748253945	-0.00034183032997
521	massimi	3.452242	3.505006	-7.337223	0.008967607823512	0.004789915510614	0.000359446976953
521	minimi	-3.870458	-3.451503	-16.136023	-0.009061831489551	-0.00327971945842	-0.000340433583139
522	massimi	3.422012	3.503583	-7.378637	0.008910724161895	0.004780161619281	0.000360899679185
522	minimi	-3.833957	-3.450316	-16.0471	-0.009118733730221	-0.003283031781884	-0.000341592062155
523	massimi	3.656881	3.506829	-0.453569	0.007162730065648	0.004351795903296	0.000464460743623
523	minimi	-3.575047	-3.529818	-22.327505	-0.007657560437338	-0.005157747398222	-0.000469427526947
524	massimi	3.65728	3.376388	-1.849849	0.007151617962707	0.00435268268988	0.000475184711644
524	minimi	-3.57543	-3.400974	-20.650353	-0.00765786802872	-0.005266497649656	-0.000480031057814
525	massimi	3.65762	3.244097	-3.23654	0.007159978769833	0.004346560855645	0.000469602496943
525	minimi	-3.575759	-3.270264	-18.951169	-0.00765210353693	-0.005366768301348	-0.000474519923897
526	massimi	3.618907	3.11093	-4.021305	0.007183111210795	0.004345066891975	0.000472488243117
526	minimi	-3.535436	-3.138664	-17.97147	-0.007603585154865	-0.005436785360468	-0.000477317639287
527	massimi	3.581079	3.111223	-3.312414	0.007220976084349	0.004344736715906	0.000474948823903
527	minimi	-3.496029	-3.13891	-18.798201	-0.007535395095142	-0.005449193678554	-0.000479802341576
528	massimi	3.543691	3.111112	-1.822479	0.007247273982633	0.004351568306187	0.000474585574058
528	minimi	-3.457114	-3.138753	-20.374457	-0.007455131646686	-0.005444217699611	-0.000479244231188
529	massimi	3.524519	3.2442	1.272962	0.007265543640427	0.004352565903957	0.000473376092923
529	minimi	-3.436437	-3.270312	-23.869341	-0.007401532994203	-0.005373633454399	-0.000477986201054
530	massimi	3.524449	3.376388	2.376515	0.00726194339421	0.00435268268988	0.000475048130159
530	minimi	-3.436353	-3.400974	-25.285439	-0.007383283451003	-0.005266497649656	-0.000479905602918

531	massimi	3.524251	3.506735	3.484476	0.007262871349384	0.004345796376467	0.000468231394832
531	minimi	-3.436141	-3.529779	-26.67422	-0.007396155098567	-0.005150887766653	-0.000472890859333
532	massimi	3.544037	3.636468	3.069757	0.007244790035642	0.004343792168207	0.000465326836206
532	minimi	-3.457444	-3.657953	-26.454434	-0.007450147924196	-0.005076669618787	-0.000470074331491
533	massimi	3.581079	3.636477	2.328947	0.007220976084349	0.004343364001242	0.000475283982696
533	minimi	-3.496029	-3.657918	-25.627458	-0.007535395095142	-0.005062910954669	-0.000480134283952
534	massimi	3.61849	3.636619	1.615529	0.007185638899073	0.004350283605753	0.000463232458465
534	minimi	-3.535036	-3.658011	-24.796045	-0.007608612618643	-0.005084091981263	-0.00046815069279
535	massimi	1.957491	3.626085	5.543618	0.009513677830124	0.008497229147756	0.000266965992818
535	minimi	-1.996071	-3.62748	-29.53035	-0.010016637835925	-0.009039943784202	-0.000303205370403
536	massimi	1.958402	3.558418	5.001633	0.009492043843864	0.008456738309674	0.00027371043056
536	minimi	-1.996963	-3.571634	-28.791879	-0.010007586913427	-0.009113557973543	-0.000310444977786
537	massimi	1.959302	3.489167	4.539202	0.009511652856752	0.008402698269696	0.000269406657953
537	minimi	-1.997868	-3.514194	-28.099443	-0.010012668165257	-0.009172565065924	-0.000305619506136
538	massimi	1.927813	3.419279	1.446811	0.009584229218509	0.008370734955123	0.000271220014379
538	minimi	-1.954556	-3.456128	-24.894967	-0.010009257879063	-0.009216508016178	-0.000307434240809
539	massimi	1.896473	3.41868	-1.793744	0.009696472065395	0.008363063314011	0.000273562656283
539	minimi	-1.911405	-3.455526	-21.772495	-0.010008647439501	-0.009222566743336	-0.000310297091229
540	massimi	1.864845	3.417799	-4.986534	0.009793117751776	0.008379895329495	0.000273314480974
540	minimi	-1.867955	-3.454665	-18.664326	-0.009991937039647	-0.009226592672571	-0.000309558682713
541	massimi	1.833711	3.488283	-7.798166	0.009859050455188	0.008411177840746	0.000273174202355
541	minimi	-1.824981	-3.513319	-16.167828	-0.009981667159804	-0.009181898604163	-0.000309441004085
542	massimi	1.834673	3.558418	-6.169699	0.009862588298749	0.008456738309673	0.000273574128699
542	minimi	-1.825949	-3.571634	-18.026353	-0.009970156983396	-0.009113557973543	-0.000310306722518
543	massimi	1.8355	3.626977	-3.773964	0.009857177310707	0.00848870272938	0.000270727711553
543	minimi	-1.826755	-3.628363	-20.61852	-0.009977849318028	-0.009030563398638	-0.000307021042685
544	massimi	1.865913	3.695012	-0.753131	0.009791359146905	0.008514197419359	0.000268913379206
544	minimi	-1.869015	-3.684552	-23.751437	-0.009988381680488	-0.00897962717923	-0.000305205332091
545	massimi	1.896473	3.69426	0.158685	0.009696472065395	0.008516993360854	0.000273721901142
545	minimi	-1.911405	-3.68382	-24.578743	-0.010008647439501	-0.008968522405263	-0.000310454607241
546	massimi	1.926739	3.693506	3.115882	0.009586071897106	0.008523442414162	0.000266824739213
546	minimi	-1.95349	-3.683062	-27.417746	-0.010012897311948	-0.008989796456053	-0.000303086716789
547	massimi	2.278082	3.355415	5.467849	0.007221637182803	0.005269493997028	0.000242645599552
547	minimi	-2.164985	-3.469524	-23.622545	-0.00806297571886	-0.006390683643347	-0.000263055100479
548	massimi	2.278475	3.309052	5.373271	0.0072058401372	0.005230274012122	0.000251016077265
548	minimi	-2.165302	-3.429781	-23.148781	-0.008055132859194	-0.006436654802797	-0.00027133368431
549	massimi	2.278814	3.260926	5.339087	0.007223551157919	0.005182739576611	0.000247672317848
549	minimi	-2.165584	-3.388199	-22.710448	-0.008061317868115	-0.00647236847559	-0.000267839455428
550	massimi	2.262074	3.214141	2.930087	0.007284506141755	0.005153714551234	0.000250786093482
550	minimi	-2.142244	-3.347915	-20.136203	-0.008065742651791	-0.006499755142112	-0.000270754826702
551	massimi	2.245175	3.214389	0.321709	0.007377086201208	0.005147545958653	0.000250762300534
551	minimi	-2.118805	-3.348091	-17.766968	-0.008075360388574	-0.006503936970863	-0.000271096070759
552	massimi	2.227474	3.214412	-2.27949	0.007457788617597	0.005159883583899	0.000253547853254
552	minimi	-2.094642	-3.348048	-15.380034	-0.008071975819227	-0.006507991609719	-0.000273262897345
553	massimi	2.209776	3.261086	-5.002027	0.007513653241715	0.005188462325957	0.000252647794935
553	minimi	-2.0705	-3.388277	-13.276923	-0.008070827238885	-0.006480001379594	-0.000272358309093
554	massimi	2.21019	3.309052	-4.664774	0.007519088241305	0.005230274012122	0.000250835726805
554	minimi	-2.070852	-3.429781	-14.018444	-0.008063572511024	-0.006436654802797	-0.000271169866065
555	massimi	2.210481	3.35535	-4.145768	0.007515600324987	0.005263704584442	0.000247632692343
555	minimi	-2.071072	-3.469542	-14.916517	-0.008069202496296	-0.006382984076105	-0.000267585569847
556	massimi	2.227898	3.400874	-1.511495	0.00745958152479	0.005288768295844	0.00024451648731
556	minimi	-2.094988	-3.508471	-17.716034	-0.008070468627507	-0.006350644347834	-0.000264667769176
557	massimi	2.245175	3.400946	0.776154	0.007377086201208	0.005292475455462	0.000251089498984
557	minimi	-2.118805	-3.508483	-19.789623	-0.008075360388574	-0.006344058015397	-0.000271407475063
558	massimi	2.261642	3.400981	3.107192	0.007282731565212	0.005295057753177	0.000241743109703
558	minimi	-2.141891	-3.508439	-21.881314	-0.008067268174159	-0.006359001240109	-0.000262148080697
559	massimi	2.688687	3.793336	-1.929797	0.004230622491774	0.006719148840591	0.000208300477887
559	minimi	-2.456678	-3.873515	-19.872501	-0.005015183695995	-0.007313856853978	-0.000236230705512
560	massimi	2.689202	3.799439	-3.843093	0.004219759807015	0.00670415014916	0.000210389753337
560	minimi	-2.45713	-3.888658	-17.747715	-0.005015378182772	-0.007402558222079	-0.000238125096331
561	massimi	2.6895	3.803394	-5.157148	0.004230055388012	0.006678360139072	0.000207557426634
561	minimi	-2.457393	-3.901597	-16.191655	-0.005012548760884	-0.007479343392817	-0.000235308545735
562	massimi	2.742094	3.80639	-7.065965	0.004270014651247	0.006663662369127	0.000207155558736
562	minimi	-2.500912	-3.913535	-14.254343	-0.004983330672783	-0.007533802538632	-0.000234634177099
563	massimi	2.794109	3.806413	-8.050369	0.004331320309903	0.006658156286149	0.000210423568029
563	minimi	-2.543947	-3.913414	-13.483491	-0.004942110431515	-0.007541218739606	-0.0002381811110529
564	massimi	2.844758	3.806293	-8.037337	0.004385682844618	0.006668251822012	0.000206859917798
564	minimi	-2.585774	-3.913164	-13.679573	-0.004892963307916	-0.007540200405551	-0.000233836335744
565	massimi	2.895054	3.80334	-5.357807	0.004422729822678	0.006682602265508	0.000207029166858

565	minimi	-2.627303	-3.901381	-16.784877	-0.004860410444077	-0.00748525635804	-0.000233876358878
566	massimi	2.895475	3.799439	-3.200628	0.004425886758168	0.00670415014916	0.000210408737591
566	minimi	-2.627678	-3.888658	-19.184164	-0.004849424458452	-0.007402558222079	-0.000238176807592
567	massimi	2.895889	3.79338	-1.030985	0.004422280971043	0.006714901253199	0.000207778598724
567	minimi	-2.62804	-3.873723	-21.565194	-0.004857893761094	-0.0073079384278	-0.000234804899269
568	massimi	2.845251	3.790024	0.62314	0.004385245994398	0.006724617259942	0.000208207698451
568	minimi	-2.586209	-3.861427	-23.247814	-0.004890615936789	-0.007247876846625	-0.000235506499734
569	massimi	2.794109	3.790165	0.145107	0.004331320309903	0.006723544709155	0.000210374973887
569	minimi	-2.543947	-3.861441	-22.586848	-0.004942110431515	-0.00723452648714	-0.000238120844382
570	massimi	2.741607	3.790152	-0.121124	0.004270516975338	0.006729216575903	0.00020849706711
570	minimi	-2.500483	-3.86128	-22.106947	-0.004985743517781	-0.00725428457662	-0.000236298068809
571	massimi	3.243145	3.237754	-1.164605	0.001026816758986	0.005075222131954	0.000472494248768
571	minimi	-2.885333	-3.931391	-5.122837	-0.004285224851796	-0.006047465665512	-0.000430957008125
572	massimi	3.243541	3.283449	0.604988	0.001027826680991	0.005046731796243	0.000484855034705
572	minimi	-2.885364	-3.963445	-6.571589	-0.004286231876283	-0.00604965632496	-0.00044144894171
573	massimi	3.244136	3.328135	2.529678	0.001031920756127	0.005010115032095	0.000473779145365
573	minimi	-2.885579	-3.994066	-8.165894	-0.004287359411928	-0.006042105213177	-0.000430876809167
574	massimi	3.090384	3.37292	4.425021	0.001035800359573	0.004984523631724	0.000476705248056
574	minimi	-2.745751	-4.024528	-10.776891	-0.00426957324286	-0.006038692829518	-0.000432991506512
575	massimi	2.935889	3.373098	4.446016	0.001039868056033	0.004972064227755	0.000484617605338
575	minimi	-2.605335	-4.024552	-11.842893	-0.004243337585758	-0.006034291297656	-0.000441277614175
576	massimi	2.779628	3.373239	4.510535	0.001042301363474	0.004976772879169	0.000482562693729
576	minimi	-2.46336	-4.024484	-12.942503	-0.004210307927655	-0.006040426839485	-0.000438185364356
577	massimi	2.622465	3.328312	2.716319	0.001046352526749	0.005002952694288	0.000484317710839
577	minimi	-2.320529	-3.994027	-12.516276	-0.004190477441641	-0.006043706083795	-0.000440220961041
578	massimi	2.623197	3.283449	0.939237	0.001047900293632	0.005046731796243	0.000484473692734
578	minimi	-2.320867	-3.963445	-11.070122	-0.004183719895666	-0.00604965632496	-0.00044110843916
579	massimi	2.623492	3.237603	-0.726216	0.001050558420718	0.005082388099448	0.000482876161206
579	minimi	-2.320811	-3.931454	-9.724967	-0.004191713898599	-0.006045868424582	-0.000440144506962
580	massimi	2.780232	3.19183	-2.315443	0.001046974243014	0.005105084543938	0.000480207065549
580	minimi	-2.463521	-3.899314	-7.420085	-0.004212237270352	-0.006044970563813	-0.000438286816651
581	massimi	2.935889	3.192057	-2.467571	0.001039868056033	0.005101380097483	0.00048471116475
581	minimi	-2.605335	-3.899359	-6.233037	-0.004243337585758	-0.006041021574125	-0.0004412822141
582	massimi	3.08979	3.192063	-2.579579	0.001031095204901	0.005097327235655	0.000474482100864
582	minimi	-2.7456	-3.899184	-5.075852	-0.00426761162503	-0.006046698018052	-0.000433225439795
583	massimi	3.237559	1.518604	-0.116437	0.010720527772516	0.003770216736622	0.000314276286822
583	minimi	-2.866796	-1.691734	-15.665114	-0.01171813342683	-0.005004023127724	-0.000313462204511
584	massimi	3.237858	1.512505	-0.198197	0.010708902710474	0.003743378932503	0.000319990752815
584	minimi	-2.866993	-1.685269	-15.169678	-0.011712776637795	-0.005050746078864	-0.000318288403968
585	massimi	3.238044	1.505893	-0.223106	0.010724266941921	0.003711107450401	0.000313645464125
585	minimi	-2.867092	-1.678184	-14.709537	-0.011718001772181	-0.005089929664068	-0.000312484556094
586	massimi	3.230725	1.499273	-3.894352	0.010752655972448	0.003691955209473	0.000314181812189
586	minimi	-2.860124	-1.671	-10.897265	-0.011697597238301	-0.005119469848194	-0.000312585002409
587	massimi	3.223077	1.499385	-6.184834	0.010796737248255	0.003687144128806	0.000319946423842
587	minimi	-2.852956	-1.670912	-8.901192	-0.011670467346877	-0.005123794572019	-0.000318279586105
588	massimi	3.214094	1.499424	-3.649662	0.010823429302358	0.003695021591961	0.000316172729555
588	minimi	-2.844684	-1.670744	-11.709291	-0.011624540975698	-0.005125123151649	-0.000313832899782
589	massimi	3.204844	1.505972	-0.580859	0.01084435162958	0.003713939794487	0.000317229299061
589	minimi	-2.836242	-1.678022	-15.487423	-0.01159606536934	-0.005095152128894	-0.000314731004859
590	massimi	3.205168	1.512505	-0.935504	0.010841726086476	0.003743378932503	0.000319860980692
590	minimi	-2.836463	-1.685269	-15.568158	-0.011581844605765	-0.005050746078864	-0.000318207052395
591	massimi	3.205347	1.518543	-1.146471	0.010848098246301	0.003768129293381	0.00031786101311
591	minimi	-2.836556	-1.691914	-15.770719	-0.011595941162007	-0.004999545563744	-0.000315709544628
592	massimi	3.21439	1.528599	-2.886952	0.010826889516714	0.003785993960518	0.00031730951241
592	minimi	-2.844869	-1.702487	-14.171264	-0.011624424839262	-0.004967616684684	-0.000315593945678
593	massimi	3.223077	1.528673	-3.464688	0.010796737248255	0.003787486366887	0.000319905281309
593	minimi	-2.852956	-1.70236	-13.320823	-0.011670467346877	-0.004960381402068	-0.000318215841903
594	massimi	3.230434	1.528708	-2.769185	0.010749199881506	0.003788252507356	0.000315317704337
594	minimi	-2.859945	-1.70219	-13.721696	-0.011697717498152	-0.00497246215249	-0.000314345157598
595	massimi	2.817873	0.462458	2.974062	0.005632541198575	-0.000279875236505	0.000470443953424
595	minimi	-2.377827	-0.596182	-9.74906	-0.006623177130732	-0.002661290523045	-0.000432183263067
596	massimi	2.81796	0.326306	3.139129	0.005628561479435	-0.000282030625265	0.000476914489541
596	minimi	-2.377853	-0.447443	-8.954162	-0.006617185709186	-0.002686385478078	-0.000437236716917
597	massimi	2.817948	0.199958	3.306897	0.005639650829737	-0.000283715145454	0.000471315696754
597	minimi	-2.37777	-0.308434	-8.154424	-0.006621497940417	-0.002707170274378	-0.000432811822453
598	massimi	2.813228	0.122359	1.331517	0.005656785742747	-0.000286348777438	0.000471575901919
598	minimi	-2.385595	-0.218078	-5.520573	-0.006621821608003	-0.002720875654328	-0.000432641573124
599	massimi	2.809713	0.121872	-0.790618	0.005681187516411	-0.000289342908179	0.000476893028713
599	minimi	-2.394749	-0.217379	-3.708424	-0.006624892868028	-0.002719974132284	-0.000437250323433

600	massimi	2.80655	0.121327	-1.447414	0.005696440222894	-0.00029173211791	0.000471362611112
600	minimi	-2.404514	-0.216591	-3.354416	-0.006617295098409	-0.002718286416022	-0.00043159523983
601	massimi	2.804707	0.200476	-0.601978	0.005709648252709	-0.000288684362214	0.00047093176315
601	minimi	-2.415728	-0.308681	-5.472139	-0.006613039110938	-0.002704782598229	-0.000430928468223
602	massimi	2.804793	0.326306	-1.057123	0.005711271749507	-0.000282030625265	0.000476928392256
602	minimi	-2.415726	-0.447443	-5.98466	-0.006606312747313	-0.002686385478078	-0.000437304906698
603	massimi	2.804766	0.462126	-1.489803	0.005716760799752	-0.000274920071924	0.000470059928756
603	minimi	-2.415655	-0.59612	-6.511785	-0.006611362836503	-0.002663664147014	-0.000430296847773
604	massimi	2.806588	0.599097	-2.142601	0.005703011145421	-0.000271678377457	0.000469793395154
604	minimi	-2.404473	-0.745883	-6.517457	-0.006615745809783	-0.00264830098038	-0.000430463738665
605	massimi	2.809713	0.599239	-1.298467	0.005681187516411	-0.000273593283033	0.000476949841243
605	minimi	-2.394749	-0.745787	-7.059307	-0.006624892868028	-0.002642140525486	-0.00043729128834
606	massimi	2.813186	0.59965	0.691076	0.005650216434669	-0.000277036333923	0.000470006777044
606	minimi	-2.385632	-0.745981	-8.738361	-0.006623372511078	-0.002645737126081	-0.000431510163043
607	massimi	4.89186	1.004244	-1.366192	0.010839853511639	0.006716573624586	0.000201286084515
607	minimi	-4.855866	-0.965797	-14.510042	-0.010828736961369	-0.006517325424504	-0.000194244908753
608	massimi	4.891908	1.002634	-2.272875	0.010827498470962	0.006687512552137	0.000194971560742
608	minimi	-4.855937	-0.961884	-13.65504	-0.01082553878231	-0.00656157571551	-0.000187818980876
609	massimi	4.891631	1.001246	-2.285581	0.010840514187046	0.006647682653842	0.00020159979339
609	minimi	-4.855682	-0.958217	-13.672428	-0.010829770507808	-0.006595260018626	-0.00019464042405
610	massimi	4.953331	1.00167	-3.628057	0.010864106945288	0.006620732670848	0.000197850951173
610	minimi	-4.919657	-0.956371	-12.327576	-0.010804375660236	-0.006617295937771	-0.00019089909234
611	massimi	5.013507	1.001793	-3.508534	0.010902287502075	0.006607649356829	0.000195276186951
611	minimi	-4.98211	-0.956478	-12.414634	-0.010769046124066	-0.006612994809969	-0.000188122995236
612	massimi	5.070596	1.001883	-0.760768	0.010922910696857	0.006614733900938	0.00018818791172
612	minimi	-5.041497	-0.956548	-15.108348	-0.01071637382878	-0.006610902669703	-0.000181173024304
613	massimi	5.126253	1.001475	1.062163	0.010938963874562	0.006642139805102	0.00018420845343
613	minimi	-5.099468	-0.958426	-16.846699	-0.010683531565267	-0.006589352683207	-0.000177135636867
614	massimi	5.126181	1.002634	0.566505	0.010933808884132	0.006687512552137	0.000195601253355
614	minimi	-5.099415	-0.961884	-16.321216	-0.010669799543046	-0.00656157571551	-0.000188452780887
615	massimi	5.126025	1.003945	0.535759	0.010939624383156	0.006722117743813	0.000183896000535
615	minimi	-5.099285	-0.965518	-16.238811	-0.010684564944893	-0.006523234030408	-0.00017674137755
616	massimi	5.07046	1.011968	-2.353333	0.010923520987403	0.006744899974945	0.000187625028544
616	minimi	-5.041388	-0.975878	-13.352095	-0.010717328624163	-0.006497147482842	-0.000180462895052
617	massimi	5.013507	1.01273	-3.564598	0.010902287502075	0.006740835921016	0.000195296590189
617	minimi	-4.98211	-0.976619	-12.19486	-0.010769046124066	-0.006484116625801	-0.000188148729571
618	massimi	4.953467	1.013516	-2.984991	0.010863496562378	0.006738898910222	0.00019728680919
618	minimi	-4.919766	-0.977391	-12.806955	-0.010803420772489	-0.006490751919961	-0.000190187704281
619	massimi	4.377586	1.218465	-4.110415	0.010625510888354	0.005294223747128	0.000176404485937
619	minimi	-4.394037	-1.189594	-18.531336	-0.010721710066746	-0.004797744626583	-0.000171630782931
620	massimi	4.37759	1.215657	-4.324047	0.010609961631736	0.005244436490232	0.000170942460235
620	minimi	-4.39406	-1.185236	-18.459859	-0.010719855702409	-0.004855442767076	-0.000166173512088
621	massimi	4.377308	1.212675	-4.407152	0.010625488932976	0.005186205159552	0.000176835104034
621	minimi	-4.393793	-1.180721	-18.487183	-0.010722839835476	-0.0049053233597	-0.000172122472237
622	massimi	4.430419	1.209806	-6.971135	0.010665575387063	0.005147018493417	0.000173606467076
622	minimi	-4.448446	-1.176331	-16.022729	-0.01069090634271	-0.004938228019814	-0.000168933965541
623	massimi	4.48221	1.2099	-7.732631	0.010728668797675	0.005133454999668	0.000171204101789
623	minimi	-4.501768	-1.176436	-15.25019	-0.010645715696822	-0.004937915770919	-0.000166431884396
624	massimi	4.531274	1.209942	-6.112835	0.010774483566576	0.005142257676728	0.000165145577066
624	minimi	-4.552351	-1.176488	-16.827166	-0.01058338001618	-0.004933221597398	-0.000160512338384
625	massimi	4.579078	1.212768	-3.900272	0.010807149431257	0.005181806720805	0.000161607677511
625	minimi	-4.601674	-1.180828	-18.886244	-0.010544083313624	-0.004900697999703	-0.000156965716219
626	massimi	4.578979	1.215657	-4.508316	0.010804795116897	0.005244436490231	0.000171493883471
626	minimi	-4.60159	-1.185236	-18.167757	-0.010529324077389	-0.004855442767076	-0.000166722376672
627	massimi	4.578801	1.21833	-4.481537	0.010807126183515	0.005298621584316	0.000161176574131
627	minimi	-4.60143	-1.189447	-18.052395	-0.010545211789989	-0.004802369385021	-0.00015647354163
628	massimi	4.531109	1.221345	-7.536842	0.010774462325101	0.005334543386582	0.000164369937804
628	minimi	-4.552206	-1.194013	-14.897561	-0.010584422881305	-0.004766487616954	-0.000159626775041
629	massimi	4.48221	1.221505	-8.424424	0.010728668797675	0.005334603736284	0.000171232176124
629	minimi	-4.501768	-1.194182	-14.052733	-0.010645715696822	-0.004753699397355	-0.000166463938572
630	massimi	4.430585	1.221627	-6.401972	0.010665595912993	0.005329783656367	0.000172831302882
630	minimi	-4.448592	-1.194317	-16.086294	-0.01068986276204	-0.004761482281012	-0.000168048877265
631	massimi	3.500821	1.212355	-4.267943	0.010540262737174	0.004432887783792	0.000156758429576
631	minimi	-3.531481	-1.201754	-18.74321	-0.010715436519204	-0.00374264663314	-0.000150881391298
632	massimi	3.500758	1.209259	-4.610443	0.010524289882598	0.00438515457996	0.000153719952371
632	minimi	-3.531427	-1.196751	-18.605423	-0.010713670948068	-0.003804546886578	-0.000147843127649
633	massimi	3.500537	1.205954	-4.703188	0.010539489926544	0.004330364208584	0.000157254567117
633	minimi	-3.53121	-1.191548	-18.68497	-0.010716382759134	-0.003860325118065	-0.000151402637384
634	massimi	3.509892	1.202744	-7.977885	0.010580228541246	0.004292927445964	0.000155172445199

634	minimi	-3.542478	-1.186443	-15.596618	-0.010683498782718	-0.003896644587221	-0.000149358246922
635	massimi	3.518364	1.202809	-9.124567	0.010644577444757	0.00427962327559	0.000153887649775
635	minimi	-3.552848	-1.186529	-14.463721	-0.010636956805584	-0.003897154352076	-0.000148007751228
636	massimi	3.536155	1.202821	-7.24033	0.01069178232259	0.004286748440286	0.000149528863216
636	minimi	-3.572517	-1.186558	-16.329225	-0.01057328307682	-0.003890443018521	-0.000143783892939
637	massimi	3.568371	1.206006	-4.5727	0.010725158121344	0.004324655561045	0.000147097901268
637	minimi	-3.606602	-1.191622	-18.805553	-0.01053304155574	-0.003854595623988	-0.000141370577294
638	massimi	3.568293	1.209259	-4.714011	0.010722618538293	0.00438515457996	0.000154087805802
638	minimi	-3.60653	-1.196751	-18.491949	-0.010518026440059	-0.003804546886578	-0.000148206469684
639	massimi	3.568143	1.212281	-4.56386	0.010724387249897	0.004438595533445	0.000146600505028
639	minimi	-3.606389	-1.201658	-18.437389	-0.010533989734853	-0.003748375229331	-0.00014084807251
640	massimi	3.53602	1.217486	-7.539831	0.01069106973567	0.004473471038662	0.000148634239966
640	minimi	-3.57239	-1.208757	-15.275072	-0.010574158763546	-0.003709897832285	-0.000142844075992
641	massimi	3.518364	1.21755	-8.549945	0.010644577444757	0.004473283825302	0.000153920018014
641	minimi	-3.552848	-1.208838	-14.283594	-0.010636956805584	-0.003696841738085	-0.000148041755721
642	massimi	3.510061	1.217626	-6.793286	0.010580942201852	0.004467293654649	0.000154279072007
642	minimi	-3.542639	-1.208935	-16.026566	-0.010682624169677	-0.003703697885251	-0.000148419680032
643	massimi	3.315504	1.2124	-4.394446	0.010544454046091	0.004178990475725	0.000165294581274
643	minimi	-3.377581	-1.214729	-18.658025	-0.010730625515243	-0.003477212955347	-0.000155247700814
644	massimi	3.315538	1.211274	-4.6208	0.01052826647066	0.004129194430691	0.000164610857014
644	minimi	-3.37762	-1.210346	-18.64009	-0.010728684588208	-0.003537286407674	-0.000154561861625
645	massimi	3.315446	1.209981	-4.673018	0.010543294198747	0.004072766667121	0.000165785130348
645	minimi	-3.377524	-1.205796	-18.763794	-0.010731218176229	-0.003591681487734	-0.000155740112714
646	massimi	3.313314	1.208804	-7.860351	0.010584146419076	0.004035371425307	0.000164652123516
646	minimi	-3.378673	-1.201365	-15.769927	-0.010698276730726	-0.003628218658822	-0.000154662944627
647	massimi	3.310448	1.208795	-9.221083	0.01064882351461	0.004024488971439	0.000164701411823
647	minimi	-3.379064	-1.201397	-14.426459	-0.010651796390607	-0.003631206702478	-0.000154647867483
648	massimi	3.305775	1.208736	-7.479335	0.010696349940042	0.004033581082431	0.000161381534458
648	minimi	-3.377604	-1.201373	-16.152874	-0.010588160592177	-0.003626437117972	-0.000151530101309
649	massimi	3.300346	1.20994	-4.671046	0.010729836682206	0.004071112877389	0.000159898658698
649	minimi	-3.375372	-1.2058	-18.769631	-0.010547851612137	-0.003590035830414	-0.000150101574159
650	massimi	3.300381	1.211274	-4.711679	0.010727117607572	0.004129194430691	0.000164824061111
650	minimi	-3.375405	-1.210346	-18.553075	-0.010532633442961	-0.003537286407674	-0.000154766089215
651	massimi	3.300274	1.212438	-4.532559	0.010728678458299	0.00418064313161	0.0001594065751
651	minimi	-3.3753	-1.214723	-18.523776	-0.010548445896559	-0.003478857478821	-0.000149607627736
652	massimi	3.305734	1.217805	-7.470844	0.010695279526852	0.004215323049614	0.000160496563621
652	minimi	-3.377564	-1.223315	-15.392026	-0.010588709365099	-0.003440013743906	-0.000150641777512
653	massimi	3.310448	1.217513	-8.672249	0.01064882351461	0.004217514778558	0.000164733425842
653	minimi	-3.379064	-1.223056	-14.205854	-0.010651796390607	-0.003429330227437	-0.000154680002897
654	massimi	3.313351	1.21723	-7.045	0.01058521773113	0.00421353475456	0.000163768683666
654	minimi	-3.37871	-1.222815	-15.81594	-0.010697728856668	-0.003438234250879	-0.000153776151816
655	massimi	3.137537	1.183699	-4.562194	0.010538740293087	0.004166573445684	0.000159802857491
655	minimi	-3.249608	-1.205649	-18.402336	-0.010756790638236	-0.003607409933558	-0.000146248523726
656	massimi	3.137759	1.183636	-4.666282	0.010522600663203	0.004112511789772	0.000161165206953
656	minimi	-3.249826	-1.201199	-18.46044	-0.010754591599734	-0.003662722647968	-0.00014764257379
657	massimi	3.137875	1.183356	-4.456113	0.010537454673561	0.004051860728433	0.000160307569417
657	minimi	-3.249926	-1.196519	-18.800478	-0.010756836744564	-0.003712170401938	-0.00014671797896
658	massimi	3.129052	1.183123	-7.307589	0.010577730748639	0.004014261785235	0.000160075746082
658	minimi	-3.24554	-1.19189	-16.106865	-0.0107237323891066	-0.003748073602041	-0.000146569117689
659	massimi	3.119452	1.183028	-9.089361	0.010641594451193	0.004008265566869	0.000161182609301
659	minimi	-3.240338	-1.191866	-14.35286	-0.010677215758175	-0.003755809328281	-0.000147653217563
660	massimi	3.108421	1.182887	-7.45949	0.010688319426172	0.004022179673652	0.000159036054205
660	minimi	-3.233629	-1.191786	-15.978094	-0.010613511524877	-0.003756096957245	-0.000145772105045
661	massimi	3.101089	1.18321	-4.604271	0.010721235076023	0.004059175051267	0.000158435774255
661	minimi	-3.230586	-1.196452	-18.698618	-0.010573013606483	-0.003719582168165	-0.000145282990149
662	massimi	3.101175	1.183636	-4.574646	0.010718353664633	0.004112511789772	0.000161233029488
662	minimi	-3.23066	-1.201199	-18.598381	-0.010557463964529	-0.003662722647968	-0.000147694581593
663	massimi	3.101123	1.183853	-4.266176	0.010719950171558	0.004159262927081	0.000157929149303
663	minimi	-3.2306	-1.205725	-18.744653	-0.010573060427872	-0.003600001971564	-0.000144811621888
664	massimi	3.108443	1.185684	-6.895462	0.010687132137976	0.004193422622818	0.000158125039987
664	minimi	-3.23364	-1.211877	-15.957504	-0.01061355465138	-0.003560962624936	-0.000144924550508
665	massimi	3.119452	1.185062	-8.642254	0.010641594451193	0.004200438290536	0.000161215559895
665	minimi	-3.240338	-1.211317	-14.215274	-0.010677215758175	-0.003555101415312	-0.000147683870576
666	massimi	3.128853	1.184445	-7.278065	0.01057891843275	0.004201333640275	0.000159166645104
666	minimi	-3.245353	-1.21077	-15.551771	-0.010723681160478	-0.003568979109178	-0.000145723476392
667	massimi	2.901566	1.943556	-0.859378	0.007890139158412	0.012439166506101	0.000163341670604
667	minimi	-2.942516	-1.857533	-12.697095	-0.007815406759005	-0.012259961290909	-0.00016588804571
668	massimi	2.986309	1.845592	0.220579	0.007925568830057	0.012309958139491	0.00015303888325
668	minimi	-3.025676	-1.76159	-13.718107	-0.00766918338879	-0.012367189672548	-0.000156290157268

669	massimi	2.986309	2.033593	5.461381	0.007925568830057	0.012407288423497	0.000142453344509
669	minimi	-3.025676	-1.945912	-18.732501	-0.00766918338879	-0.011993969199276	-0.000144729480246
670	massimi	2.903375	2.035115	6.46965	0.007928223389359	0.012504850360958	0.000160638887615
670	minimi	-2.944244	-1.947437	-19.852992	-0.007773532643175	-0.012156357610585	-0.000163325056508
671	massimi	3.06568	1.943556	1.931547	0.00798684504982	0.012439166506101	0.00013294357933
671	minimi	-3.103389	-1.857533	-15.202875	-0.007548753684614	-0.012259961290909	-0.000135926604264
672	massimi	3.066395	1.848044	4.058976	0.007971338918458	0.012435431561785	0.000157154774776
672	minimi	-3.104043	-1.764026	-17.383993	-0.007609537348061	-0.012422604998646	-0.000160413045335
673	massimi	3.064674	2.032723	5.869259	0.008021559564159	0.012526448408411	0.000152236449422
673	minimi	-3.102475	-1.944988	-18.969057	-0.007661060133837	-0.012179662161308	-0.000155041756512
674	massimi	2.901662	1.845674	-2.296261	0.007956322259083	0.012457006536656	0.000165555643604
674	minimi	-2.942683	-1.7616	-11.312299	-0.007802933652974	-0.012445886476786	-0.000168694775966
675	massimi	2.981336	1.724718	-1.398132	0.006739832302244	0.012406263997276	0.000136522168236
675	minimi	-2.90122	-1.552713	-12.909751	-0.00666447247283	-0.012321209483272	-0.000128427338429
676	massimi	3.042384	1.746229	4.922449	0.006772146342174	0.012117625159967	0.000119451567047
676	minimi	-2.967187	-1.568925	-19.103191	-0.006503486894447	-0.012283481770531	-0.000111917676257
677	massimi	3.042384	1.697904	-1.220716	0.006772146342174	0.012534215029591	0.000125211582764
677	minimi	-2.967187	-1.531926	-12.852567	-0.006503486894447	-0.012199351842079	-0.000115727883029
678	massimi	2.981932	1.69872	-2.721717	0.00678505636718	0.012598274034216	0.000136275060631
678	minimi	-2.901687	-1.532589	-11.468331	-0.006625014572307	-0.012333446660984	-0.000126785225714
679	massimi	3.097989	1.724718	2.462632	0.006806103999986	0.012406263997276	0.000107829987578
679	minimi	-3.027854	-1.552713	-16.47172	-0.006344089474839	-0.012321209483272	-0.000098901095666
680	massimi	3.097799	1.74662	6.553716	0.006822888525285	0.012301109525301	0.000126007223944
680	minimi	-3.02747	-1.569221	-20.55354	-0.006442458252874	-0.012393468993227	-0.000117195532296
681	massimi	3.098219	1.698687	1.5808	0.006823189863495	0.012594730112943	0.000128529847909
681	minimi	-3.028192	-1.532663	-15.47373	-0.006443377614671	-0.012331690946835	-0.000118812443737
682	massimi	2.982342	1.746998	5.417065	0.006785475893731	0.012297547288477	0.000133840309374
682	minimi	-2.902401	-1.569706	-19.714006	-0.006626052122445	-0.012391694963526	-0.00012525618698
683	massimi	2.593258	2.335609	-2.035049	0.006115414470854	0.010064195240665	0.000197486616577
683	minimi	-2.685494	-2.289741	-14.661569	-0.006224628741412	-0.009767141355237	-0.000194362331837
684	massimi	2.689493	2.235386	-6.161088	0.006246918550744	0.009936490747028	0.000189734876238
684	minimi	-2.783345	-2.187883	-10.617164	-0.006124181228375	-0.009941756246572	-0.000187391994581
685	massimi	2.689493	2.426461	2.519701	0.006246918550744	0.010061501921749	0.000176866764473
685	minimi	-2.783345	-2.382423	-18.922654	-0.006124181228375	-0.009465978866923	-0.000174003936612
686	massimi	2.594882	2.427884	3.797494	0.006193112728507	0.010134141354409	0.000197956738557
686	minimi	-2.687101	-2.383885	-20.230814	-0.006200934301738	-0.009621396960727	-0.000194894729655
687	massimi	2.784228	2.335609	-3.209462	0.006392850582721	0.010064195240665	0.000169450817896
687	minimi	-2.879518	-2.289741	-13.35065	-0.006038136351616	-0.009767141355237	-0.000167367518669
688	massimi	2.784928	2.237743	-4.1284	0.006343804771492	0.010044969487451	0.000196281148988
688	minimi	-2.880179	-2.190297	-12.542508	-0.006087191933028	-0.00996079608268	-0.000193744690181
689	massimi	2.782952	2.425996	1.670561	0.006373032602837	0.01015097748217	0.000190300169529
689	minimi	-2.878285	-2.381863	-17.968143	-0.00611857821589	-0.009639050028954	-0.000187522189451
690	massimi	2.593328	2.235897	-4.735668	0.006208998376558	0.010061796794088	0.000203934102674
690	minimi	-2.685627	-2.188317	-12.070978	-0.006218978401306	-0.009978440329783	-0.000201113615042
691	massimi	2.914796	2.034243	-7.46876	0.00535687854845	0.010098815907592	0.000191053293219
691	minimi	-2.870327	-1.893385	-13.254438	-0.005469426578194	-0.00985711720929	-0.000183132481963
692	massimi	3.006039	2.055944	-4.853139	0.005499829907948	0.009862810107827	0.000173649274281
692	minimi	-2.966305	-1.909968	-15.87367	-0.005317957787566	-0.01000397724389	-0.000166309400267
693	massimi	3.006039	2.008066	-2.831267	0.005499829907948	0.010203955619779	0.000178601676063
693	minimi	-2.966305	-1.872923	-17.590178	-0.005317957787566	-0.009582523432531	-0.000169665077333
694	massimi	2.915455	2.008952	-3.1055	0.005443876245739	0.010255935611552	0.000194558756937
694	minimi	-2.870889	-1.873696	-17.368463	-0.00542809451737	-0.009740821758971	-0.000185495783497
695	massimi	3.092311	2.034243	-6.580556	0.005643949405954	0.010098815907592	0.000161554624545
695	minimi	-3.057389	-1.893385	-13.940368	-0.005167619591762	-0.00985711720929	-0.000153193098876
696	massimi	3.091904	2.056429	-4.618141	0.00560748405676	0.010012582334949	0.000184205430311
696	minimi	-3.05682	-1.910395	-15.958444	-0.005256049114002	-0.010041466574786	-0.00017576391051
697	massimi	3.092338	2.00903	-1.925393	0.005607740307262	0.010252827452153	0.000186497400963
697	minimi	-3.057502	-1.873831	-18.347433	-0.005258061596943	-0.009738924147065	-0.00017731418102
698	massimi	2.915866	2.056864	-4.367348	0.005444093851021	0.010009470716662	0.000192256010211
698	minimi	-2.871547	-1.910886	-16.410374	-0.005430068355091	-0.0100395565503992	-0.000183934736912
699	massimi	3.83554	3.58362	3.689016	0.008659760061752	0.009705512422574	0.000390927565947
699	minimi	-3.717135	-3.336965	-24.775554	-0.009061243345602	-0.009557058383005	-0.000359573472721
700	massimi	3.945676	3.532874	1.760708	0.008684639026543	0.009939581092235	0.000385835161082
700	minimi	-3.837848	-3.297043	-22.862541	-0.00887998488879	-0.00958498934162	-0.000352841400344
701	massimi	3.835761	3.533327	1.358276	0.008682951437052	0.009871732374281	0.000397033054321
701	minimi	-3.717281	-3.297397	-22.372298	-0.009009381901713	-0.00959230524277	-0.000363883297482
702	massimi	3.945676	3.629624	6.382019	0.008684639026543	0.009471435428745	0.000363865053855
702	minimi	-3.837848	-3.37249	-27.580701	-0.00887998488879	-0.009529120932899	-0.000333153100623
703	massimi	4.05072	3.58362	5.384221	0.008709719754802	0.009705512422574	0.000357664986792

703	minimi	-3.953618	-3.336965	-26.5982	-0.008698925783885	-0.009557058383005	-0.000325313366047
704	massimi	4.050366	3.629819	6.821568	0.008714688841256	0.009574498722621	0.000376539406822
704	minimi	-3.953133	-3.372641	-28.059481	-0.008779351767459	-0.00955683912957	-0.000343859082111
705	massimi	4.051562	3.533635	3.952675	0.008714417849777	0.009867849864855	0.000384879972348
705	minimi	-3.954507	-3.297782	-25.093912	-0.008779308514764	-0.009588123059255	-0.000351365597614
706	massimi	3.836941	3.630133	6.28918	0.008682711604714	0.009570601831708	0.000388781043572
706	minimi	-3.718638	-3.373033	-27.399879	-0.00900936980816	-0.009552642564566	-0.000356465336757
707	massimi	2.068575	2.373111	-3.372065	0.005919253551488	0.008244103475956	0.000217805975868
707	minimi	-2.171703	-2.361056	-13.661174	-0.006132021715414	-0.007802858441603	-0.000215335665838
708	massimi	2.097162	2.26351	-6.671367	0.006041310518877	0.008103951043292	0.00021433127121
708	minimi	-2.201498	-2.250222	-10.587777	-0.006016003622369	-0.007973876742305	-0.000212508604415
709	massimi	2.097162	2.474331	0.081284	0.006041310518877	0.008277439744283	0.000201182157414
709	minimi	-2.201498	-2.46356	-16.782958	-0.006016003622369	-0.007530743102239	-0.000199222837108
710	massimi	2.069522	2.475324	1.244434	0.005998210537704	0.008329025067907	0.00022307080728
710	minimi	-2.172661	-2.464616	-17.922063	-0.006106882946224	-0.007666282552093	-0.000220847525786
711	massimi	2.173398	2.373111	-4.040855	0.006178758309707	0.008244103475956	0.000197967107677
711	minimi	-2.278744	-2.361056	-12.964239	-0.005915371132962	-0.007802858441603	-0.000196654068805
712	massimi	2.173872	2.265026	-4.693181	0.006138091190505	0.008205266925008	0.000223765326647
712	minimi	-2.279214	-2.251814	-12.511002	-0.005975360016501	-0.00798239038961	-0.000221921279262
713	massimi	2.172341	2.47422	-0.018969	0.006155921820302	0.008338277079139	0.000217653785516
713	minimi	-2.277705	-2.463363	-16.630673	-0.005996396818848	-0.007675703006202	-0.000215746260929
714	massimi	2.068543	2.26481	-5.005564	0.006001549640867	0.008214519917082	0.00022917824485
714	minimi	-2.171703	-2.251449	-12.226606	-0.006113428221938	-0.007991811824562	-0.000227018440556
715	massimi	2.306543	2.044471	-8.169585	0.005199251435872	0.00803216865178	0.000228867981264
715	minimi	-2.285969	-1.965672	-14.711201	-0.005523619128241	-0.00769485694887	-0.000225194215646
716	massimi	2.336131	2.071406	-6.690313	0.005366670569097	0.007782399904449	0.000216043428601
716	minimi	-2.317754	-1.990262	-16.346896	-0.005361312614229	-0.007874271374832	-0.000212715725518
717	massimi	2.336131	2.014022	-5.432228	0.005366670569097	0.00817789566239	0.000220834175924
717	minimi	-2.317754	-1.937903	-17.178818	-0.005361312614229	-0.007415772919149	-0.000216613230423
718	massimi	2.307323	2.015028	-4.950325	0.005296298082427	0.008197799041595	0.000238539011386
718	minimi	-2.286693	-1.93885	-17.610096	-0.00547762928683	-0.007554740918136	-0.000234300269792
719	massimi	2.420773	2.044471	-8.029846	0.005535248998313	0.00803216865178	0.000207802870487
719	minimi	-2.404626	-1.965672	-14.844981	-0.00520016429017	-0.00769485694887	-0.000203925267851
720	massimi	2.420321	2.071988	-6.258699	0.005487797161389	0.007915669313778	0.000230767345
720	minimi	-2.404088	-1.990812	-16.719719	-0.005293248511849	-0.007881805188044	-0.000226887910734
721	massimi	2.420624	2.01493	-4.314776	0.005487738619916	0.008202596080087	0.000232791728191
721	minimi	-2.40453	-1.938778	-18.23972	-0.005295640946566	-0.007559573619372	-0.000228497370788
722	massimi	2.306752	2.072184	-5.697689	0.005296208222614	0.007920474731166	0.00023651882789
722	minimi	-2.28626	-1.991034	-17.286654	-0.005479990403207	-0.007886646268175	-0.000232695009433
723	massimi	3.069286	4.157764	-0.09751	0.004761684460204	0.007798060279242	0.000295441343207
723	minimi	-2.994366	-3.932202	-25.87621	-0.005020369782767	-0.00730784803191	-0.000287219091417
724	massimi	3.068967	4.127217	-2.049216	0.004886157830752	0.008027896718811	0.00029611185132
724	minimi	-2.996858	-3.904673	-23.76548	-0.004888856408197	-0.00728170073556	-0.000286512720178
725	massimi	3.06976	4.127787	-1.999683	0.004815018045898	0.007956034943997	0.000302339999764
725	minimi	-2.994758	-3.90518	-23.784254	-0.004979878847417	-0.007302501147212	-0.000293239454633
726	massimi	3.068967	4.182757	1.793882	0.004886157830752	0.007568270320598	0.000274053963283
726	minimi	-2.996858	-3.954492	-27.928385	-0.004888856408197	-0.007334047860896	-0.000266541511262
727	massimi	3.115347	4.157764	-0.033635	0.005010996357652	0.007798060279241	0.00027478707185
727	minimi	-3.04615	-3.932202	-25.941845	-0.004757708156665	-0.00730784803191	-0.000265897740477
728	massimi	3.115044	4.183181	1.970576	0.004973341095267	0.007664201242694	0.000286727613553
728	minimi	-3.045749	-3.954867	-28.07551	-0.004813134123907	-0.007335735218787	-0.000278145962774
729	massimi	3.11617	4.127906	-1.924967	0.004973191729649	0.007957100456241	0.000294774734501
729	minimi	-3.047037	-3.905351	-23.860727	-0.004813736777848	-0.007303562519651	-0.000285430357345
730	massimi	3.069619	4.1833	1.835668	0.00481491087183	0.007665270818606	0.000294266574432
730	minimi	-2.994778	-3.955038	-27.938845	-0.004980523692907	-0.007336800654893	-0.000285928755677
731	massimi	1.938885	2.379042	-3.981118	0.005926864049291	0.007891364230471	0.000199380732798
731	minimi	-2.072694	-2.378979	-13.040715	-0.006154677468635	-0.007463414336089	-0.000206032356496
732	massimi	1.951758	2.272932	-6.639236	0.006036865541121	0.007747848988578	0.000199911951184
732	minimi	-2.081369	-2.277773	-10.608504	-0.006026649488211	-0.007630922613923	-0.000207280084115
733	massimi	1.951758	2.477127	-0.422441	0.006036865541121	0.007932632323893	0.000186621615708
733	minimi	-2.081369	-2.472161	-16.284626	-0.006026649488211	-0.007199205712669	-0.000193989032025
734	massimi	1.939273	2.477761	0.26953	0.006006625399376	0.007982690787194	0.000206382212729
734	minimi	-2.073071	-2.472911	-16.944171	-0.006130481281967	-0.007333381787156	-0.000214109578863
735	massimi	1.962833	2.379042	-3.994155	0.006160687029846	0.007891364230471	0.00018739838605
735	minimi	-2.087999	-2.378979	-13.016317	-0.005912439397518	-0.007463414336089	-0.000195487617511
736	massimi	1.963123	2.274132	-4.794294	0.006132758842619	0.007850876246559	0.000209286835559
736	minimi	-2.088335	-2.27904	-12.406881	-0.005985264886433	-0.007641346124012	-0.000217406780223
737	massimi	1.962889	2.477413	0.218361	0.006137000460959	0.007984836976276	0.000203109079092
737	minimi	-2.088101	-2.472378	-16.881704	-0.005992616072242	-0.007335595974357	-0.00021122869088

738	massimi	1.939162	2.274527	-4.896659	0.005997949332675	0.007853022016024	0.000212554949418
738	minimi	-2.072959	-2.27925	-12.315814	-0.006124914782734	-0.007643559891595	-0.000220282648427
739	massimi	2.140008	2.03888	-8.204239	0.00519391107808	0.007702278647243	0.000201917115885
739	minimi	-2.159349	-2.000811	-15.026095	-0.005609200357709	-0.007369115365749	-0.000204482122695
740	massimi	2.152741	2.055555	-6.829118	0.005357783564528	0.007456436927096	0.000193545361366
740	minimi	-2.170538	-2.019339	-16.601115	-0.005437133493813	-0.007560465388396	-0.00019642387769
741	massimi	2.152741	2.020978	-5.539501	0.005357783564528	0.007848379291861	0.000197557380257
741	minimi	-2.170538	-1.981218	-17.46981	-0.005437133493813	-0.007082342629942	-0.000200004353729
742	massimi	2.14046	2.021948	-4.900999	0.005290415701499	0.007866966235375	0.000212911249967
742	minimi	-2.15976	-1.982194	-18.009802	-0.005560406277546	-0.00722262029399	-0.00021564773474
743	massimi	2.163058	2.03888	-8.133861	0.005530486766417	0.007702278647243	0.000189409142468
743	minimi	-2.179276	-2.000811	-15.184724	-0.005273913725487	-0.007369115365749	-0.000192171544151
744	massimi	2.163365	2.056241	-6.376348	0.005480770970009	0.007587368393611	0.000207635871063
744	minimi	-2.179562	-2.020012	-17.040917	-0.005367808188505	-0.007563680581097	-0.000210626671409
745	massimi	2.16316	2.021815	-4.880246	0.005481233264841	0.00786891845954	0.000209497843531
745	minimi	-2.179424	-1.982035	-18.118311	-0.005370690416244	-0.007224044362119	-0.000212288186408
746	massimi	2.140273	2.056329	-6.133164	0.005288275665371	0.007589334906563	0.00021105083029
746	minimi	-2.15964	-2.020075	-17.196346	-0.005560687074325	-0.007565118938014	-0.000213987772531
747	massimi	2.78191	3.790642	-0.791418	0.005638145307692	0.006525191036862	0.000614138272992
747	minimi	-2.662231	-3.751461	-27.34382	-0.00647675429295	-0.006535262631517	-0.000608307940255
748	massimi	2.955381	3.745066	-2.342491	0.005757954551426	0.006736259818881	0.000613285438517
748	minimi	-2.837752	-3.708044	-25.978184	-0.006316373043985	-0.006466137411811	-0.000606729782166
749	massimi	2.78278	3.745692	-2.355376	0.005691093689707	0.00666901608172	0.000631121964723
749	minimi	-2.663078	-3.708618	-25.750448	-0.006428323290702	-0.006501628458211	-0.000624667607575
750	massimi	2.955381	3.831584	0.825189	0.005757954551425	0.006314401510418	0.000594298431276
750	minimi	-2.837752	-3.790299	-29.139294	-0.006316373043985	-0.006604666982464	-0.000588105234968
751	massimi	3.125427	3.790642	-0.716312	0.005880905727596	0.006525191036862	0.000593270723331
751	minimi	-3.010012	-3.751461	-27.783229	-0.006159126833736	-0.006535262631517	-0.000586352203409
752	massimi	3.125383	3.831976	0.875909	0.005843488460736	0.006401160156708	0.000616555167753
752	minimi	-3.009933	-3.790649	-29.338831	-0.006224910522018	-0.006589580072912	-0.000609835541629
753	massimi	3.125355	3.745679	-2.25497	0.005843532932934	0.006670387845781	0.000623503037381
753	minimi	-3.009933	-3.708689	-26.214511	-0.006224939543691	-0.006502143569607	-0.000616650924267
754	massimi	2.782732	3.831977	0.82023	0.005691167552107	0.006402539402819	0.000624191272349
754	minimi	-2.663058	-3.790735	-28.919495	-0.006428381702577	-0.006590102666358	-0.00061786940219
755	massimi	1.826099	2.373458	-3.705755	0.005930663446157	0.007898187495266	0.000202920293927
755	minimi	-2.008595	-2.390117	-13.110177	-0.006196570992704	-0.007648639629906	-0.000223003478439
756	massimi	1.802727	2.241659	-6.491213	0.006037544066413	0.007761728456857	0.000207947520285
756	minimi	-1.973055	-2.272272	-10.461168	-0.006068282642082	-0.007818338120817	-0.000228873340023
757	massimi	1.802727	2.500972	-0.052048	0.006037544066413	0.007932326676153	0.000194359969962
757	minimi	-1.973055	-2.503606	-16.585054	-0.006068282642082	-0.007379855755504	-0.000215474628158
758	massimi	1.825532	2.501065	0.213204	0.006008344439758	0.007990540749943	0.000213615390252
758	minimi	-2.007984	-2.503897	-16.795117	-0.006172363466704	-0.007523014966444	-0.000236007677495
759	massimi	1.791674	2.373458	-3.117361	0.006146002203942	0.007898187495266	0.000199647000648
759	minimi	-1.949512	-2.390117	-13.732757	-0.005941578148873	-0.007648639629906	-0.000221619431819
760	massimi	1.791848	2.24272	-4.494928	0.006130936530345	0.00786885853681	0.000219034156742
760	minimi	-1.949806	-2.273392	-12.434603	-0.006026871445343	-0.007835818840926	-0.000241854199808
761	massimi	1.792036	2.501498	0.958273	0.006124032280698	0.007980585702606	0.00021271948922
761	minimi	-1.949965	-2.504087	-17.574181	-0.006021780459198	-0.007512855322934	-0.000235627250023
762	massimi	1.826806	2.243715	-4.887288	0.006001140908462	0.007858875636675	0.000219925241394
762	minimi	-2.009228	-2.274143	-12.008247	-0.00616697319891	-0.007825631344619	-0.0002422298109
763	massimi	1.918566	2.044665	-8.226849	0.005119078405609	0.007725920873316	0.000203373406312
763	minimi	-1.961603	-2.050052	-14.453508	-0.005628383860023	-0.007549101760305	-0.000206944615907
764	massimi	1.897823	2.079024	-6.280555	0.00527512559016	0.007481706402441	0.000199155066085
764	minimi	-1.938672	-2.086925	-16.55876	-0.005456199745192	-0.007731070227144	-0.000202920924069
765	massimi	1.897823	2.005487	-5.447782	0.00527512559016	0.007870078439342	0.000205261476553
765	minimi	-1.938672	-2.008336	-17.168139	-0.005456199745192	-0.007269368264842	-0.000209088394767
766	massimi	1.91839	2.006578	-5.051802	0.005210956969557	0.007893945874488	0.000218976517527
766	minimi	-1.961422	-2.00947	-17.410121	-0.005579320255483	-0.007413937436118	-0.000223011703666
767	massimi	1.880843	2.044665	-7.599944	0.00543230709034	0.007725920873316	0.000200286672787
767	minimi	-1.919427	-2.050052	-15.281799	-0.005285187324951	-0.007549101760305	-0.000204310974959
768	massimi	1.881247	2.079663	-5.895213	0.005389495713626	0.007616912673609	0.000215004570296
768	minimi	-1.919856	-2.087584	-16.989186	-0.005383704601824	-0.007743301760743	-0.000219135016953
769	massimi	1.881141	2.00642	-4.613078	0.005389110234427	0.007886844455577	0.000218132062152
769	minimi	-1.919741	-2.009254	-18.049099	-0.005384603926657	-0.007405630780999	-0.000222290872108
770	massimi	1.918946	2.079628	-5.47407	0.005210575911531	0.007609789859516	0.000215779933928
770	minimi	-1.961969	-2.08749	-17.210074	-0.005580224001489	-0.007734973710443	-0.000219786756768
771	massimi	2.458805	3.235979	-0.503941	0.007486835031121	0.005054830069636	0.000800329353159
771	minimi	-2.210312	-3.365272	-25.725839	-0.008560973436784	-0.006107109590123	-0.000787678602715
772	massimi	2.716927	3.200157	-1.989229	0.007587370556259	0.005241979037312	0.000791703838513

772	minimi	-2.472871	-3.333966	-24.848919	-0.008400151121887	-0.006032889205604	-0.00077852224717
773	massimi	2.459855	3.200755	-1.921447	0.007535187680873	0.005182258156566	0.000820418909184
773	minimi	-2.211388	-3.334482	-24.620642	-0.008516032107483	-0.006070908997335	-0.000806811000291
774	massimi	2.716927	3.26935	1.083139	0.007587370556259	0.004868071253278	0.000786440060562
774	minimi	-2.472871	-3.393944	-27.234797	-0.008400151121887	-0.006181707135484	-0.000772062387402
775	massimi	2.972162	3.235979	-0.0795	0.007688101330461	0.005054830069636	0.000777665661773
775	minimi	-2.732885	-3.365272	-26.680525	-0.00823951402221	-0.006107109590123	-0.000762757143214
776	massimi	2.971671	3.269751	1.569672	0.0076629846492417	0.004944860925545	0.000810209289043
776	minimi	-2.732395	-3.394287	-27.955793	-0.008311936249025	-0.006165406436316	-0.00079533892161
777	massimi	2.972026	3.200596	-1.58337	0.0076641075929	0.005181281473341	0.000812139167923
777	minimi	-2.732657	-3.334499	-25.488024	-0.008311443079801	-0.006068685452397	-0.000797705995924
778	massimi	2.459822	3.269622	1.024751	0.007536326721766	0.004943864236328	0.000818497533978
778	minimi	-2.211261	-3.394334	-26.881566	-0.008515556878669	-0.006163162885386	-0.000804452429652
779	massimi	2.066353	1.940941	1.021426	0.007598369499419	0.008385627891943	0.000163781118439
779	minimi	-2.365777	-1.998813	-16.177684	-0.007998440833617	-0.008260530288508	-0.000155712025299
780	massimi	2.077015	1.966577	-3.137845	0.007726077110162	0.008284655098215	0.000164043879278
780	minimi	-2.380472	-2.020077	-12.168517	-0.007915545036459	-0.00843307483964	-0.000157332009208
781	massimi	2.077015	1.91902	3.260028	0.007726077110162	0.008378259018523	0.000163973516207
781	minimi	-2.380472	-1.981018	-18.408342	-0.007915545036459	-0.007981265502448	-0.000157917666074
782	massimi	2.066069	1.919169	3.657506	0.007699191405667	0.008454599797344	0.000176260023861
782	minimi	-2.365611	-1.981386	-18.666525	-0.008009129375428	-0.00813517849099	-0.000169087699477
783	massimi	2.08481	1.940941	-1.201838	0.007855973511858	0.008385627891943	0.000164555722584
783	minimi	-2.391723	-1.998813	-14.165141	-0.007834877109923	-0.008260530288508	-0.000159852498178
784	massimi	2.08439	1.966216	-4.55009	0.007845867566492	0.008387738650957	0.000176503665637
784	minimi	-2.391369	-2.019978	-10.825684	-0.007915744315332	-0.008457386506177	-0.0001699494976212
785	massimi	2.085657	1.920638	3.533331	0.007826257765277	0.008439887869069	0.000176459210828
785	minimi	-2.392535	-1.982422	-18.751888	-0.007897043497723	-0.008119205462888	-0.00017020525056
786	massimi	2.06731	1.968175	0.149281	0.007679266668973	0.008373206560196	0.000176279141902
786	minimi	-2.366749	-2.021504	-15.315518	-0.007990113622341	-0.008441593315589	-0.00016880208836
787	massimi	2.380865	1.746669	-4.488636	0.006256247251201	0.008117623082036	0.000262942766294
787	minimi	-2.398899	-1.802256	-14.92342	-0.006871410727048	-0.008132430769303	-0.000265893719125
788	massimi	2.334211	1.630376	-1.767027	0.006405324563533	0.007841543325679	0.000273222301669
788	minimi	-2.350478	-1.687868	-17.777574	-0.006742013966311	-0.008216835384887	-0.000275947315136
789	massimi	2.334211	1.859346	-6.10303	0.006405324563533	0.008288617087906	0.000260564721623
789	minimi	-2.350478	-1.912792	-13.460279	-0.006742013966311	-0.007942748470438	-0.000263919850376
790	massimi	2.380572	1.859646	-4.824268	0.006350104265464	0.008308944574135	0.000282966545719
790	minimi	-2.398646	-1.913136	-14.506616	-0.006847143044942	-0.008067703632866	-0.000286357717083
791	massimi	2.286002	1.746669	-5.645529	0.006555863985116	0.008117623082036	0.00027112559892
791	minimi	-2.30047	-1.802256	-14.140983	-0.006614148817288	-0.008132430769303	-0.000274256978897
792	massimi	2.286386	1.631783	-2.172094	0.006520931675837	0.00799008408759	0.000291079601734
792	minimi	-2.300918	-1.689299	-17.512534	-0.006700556396187	-0.008263205093199	-0.000294227304613
793	massimi	2.286842	1.859309	-5.495671	0.00652101229395	0.008299766548664	0.000285200510811
793	minimi	-2.301275	-1.912776	-14.207567	-0.006700529418599	-0.008056284590398	-0.000288640910729
794	massimi	2.381123	1.631484	-0.876039	0.0063502836359	0.007980865138392	0.00028884713078
794	minimi	-2.399098	-1.688977	-18.436235	-0.006847214819678	-0.008251820805836	-0.000291945605105
795	massimi	3.280381	3.153509	0.127067	0.005399935485558	0.00654948737446	0.000214739028918
795	minimi	-3.189702	-3.505252	-17.497277	-0.00698813418695	-0.006887799649447	-0.000244765679505
796	massimi	3.247644	3.135571	-1.318831	0.005437839466994	0.00669521349057	0.00022566867414
796	minimi	-3.14701	-3.477183	-16.623737	-0.006854192417265	-0.006861669183695	-0.000256856832752
797	massimi	3.280523	3.136118	-1.713877	0.005421918711514	0.006652539214251	0.000227027048502
797	minimi	-3.189932	-3.477767	-15.747061	-0.006949928622291	-0.006883367186971	-0.000258338824281
798	massimi	3.247644	3.167363	2.549075	0.005437839466994	0.006403821855548	0.000211662830724
798	minimi	-3.14701	-3.528746	-20.270933	-0.006854192417265	-0.006913986535907	-0.000239597006381
799	massimi	3.210725	3.153509	1.101225	0.005475878552282	0.00654948737446	0.00022655621689
799	minimi	-3.100276	-3.505252	-19.395441	-0.00672036826644	-0.006887799649447	-0.000251751305372
800	massimi	3.211043	3.167833	3.048292	0.0054701508338	0.006467535674583	0.000224803057569
800	minimi	-3.100733	-3.529201	-21.211279	-0.006779929312951	-0.006916595078928	-0.000254585143608
801	massimi	3.211459	3.135951	-0.798169	0.005471348908328	0.006652609877484	0.000229900429532
801	minimi	-3.100896	-3.477673	-17.585137	-0.006780608393005	-0.006881265066626	-0.000260871916761
802	massimi	3.280924	3.167653	2.215454	0.005423145090072	0.006467585442873	0.000221887134255
802	minimi	-3.190079	-3.529093	-19.456073	-0.006950636006374	-0.006914472063641	-0.000252009508844
803	massimi	3.422528	3.679694	-5.427883	0.008859629497983	0.00463035457435	0.000348738154787
803	minimi	-3.834493	-3.613862	-18.938933	-0.009193408247597	-0.003326376552129	-0.00032843838777
804	massimi	3.453738	3.591771	-6.389186	0.008954703395441	0.004818423184993	0.000361773872665
804	minimi	-3.872136	-3.532125	-17.582975	-0.009048791473201	-0.003274761959013	-0.000343104855489
805	massimi	3.422569	3.591659	-6.411736	0.008906112198455	0.004755181481607	0.000364683480739
805	minimi	-3.834583	-3.532139	-17.502298	-0.0091515390213	-0.003296987551655	-0.000344887877513
806	massimi	3.453738	3.762856	-4.239195	0.008954703395441	0.00444463092681	0.000332847839854
806	minimi	-3.872136	-3.690928	-20.583659	-0.009048791473201	-0.003380352206064	-0.00031478784058

807	massimi	3.480954	3.679694	-4.060348	0.009078718348417	0.00463035457435	0.000346001274623
807	minimi	-3.905201	-3.613862	-20.36785	-0.008933114592796	-0.003326376552129	-0.000329572074182
808	massimi	3.480828	3.762294	-3.504449	0.009049257188604	0.004519362239033	0.000353109843175
808	minimi	-3.905091	-3.690524	-21.320045	-0.008990309280793	-0.003365543039737	-0.000334951642927
809	massimi	3.481847	3.593317	-4.57821	0.009046465306715	0.004757734637278	0.000363671147934
809	minimi	-3.906158	-3.533496	-19.397097	-0.008989517791555	-0.003299396369694	-0.000345290338462
810	massimi	3.423561	3.763951	-4.427772	0.008906321952792	0.00452045490603	0.000354098181415
810	minimi	-3.835622	-3.69188	-20.335448	-0.009153749168288	-0.003366491369102	-0.000334525187413
811	massimi	3.619009	3.377852	-1.208038	0.007146824077539	0.004346418739588	0.000454072169754
811	minimi	-3.535548	-3.402448	-21.464332	-0.007683712939322	-0.005258919135804	-0.000459151005879
812	massimi	3.582631	3.507403	0.920676	0.007210585067223	0.004345604690471	0.00044695411035
812	minimi	-3.497544	-3.530416	-23.993109	-0.007524551627642	-0.005035175214908	-0.000451753145972
813	massimi	3.619154	3.50756	0.204325	0.007182414567638	0.004354599005981	0.000468013833646
813	minimi	-3.535686	-3.53055	-23.147731	-0.007639128319953	-0.005127268793692	-0.000473040780204
814	massimi	3.582631	3.243853	-1.906896	0.007210585067223	0.004347194630753	0.000470664916854
814	minimi	-3.497544	-3.269999	-20.570237	-0.007524551627642	-0.005482613633858	-0.000475236408675
815	massimi	3.543915	3.377852	0.403089	0.007274617162163	0.004346418739588	0.000463729088619
815	minimi	-3.45732	-3.402448	-23.280286	-0.007365657545276	-0.005258919135804	-0.000468020779938
816	massimi	3.544295	3.244709	-0.713563	0.007263536645042	0.004355610678254	0.000480212459456
816	minimi	-3.457702	-3.270824	-21.84006	-0.007437167453932	-0.00541136340939	-0.000484868515369
817	massimi	3.544677	3.507456	1.662788	0.00726214959774	0.004351239858721	0.000471543161987
817	minimi	-3.458066	-3.530507	-24.810657	-0.007434380567787	-0.00512342799997	-0.000476282390083
818	massimi	3.619614	3.244595	-2.616667	0.007180995317549	0.004352247465526	0.000476678533406
818	minimi	-3.536128	-3.270771	-19.732493	-0.00763630923102	-0.005407518550201	-0.00048162230778
819	massimi	1.927478	3.559961	1.92235	0.009467970494233	0.008444569025136	0.000259452861243
819	minimi	-1.954267	-3.573181	-25.888243	-0.010015976911112	-0.009100443522549	-0.000294855668544
820	massimi	1.897295	3.626944	-0.533758	0.009682518798396	0.008533763245259	0.000258637774165
820	minimi	-1.912233	-3.628294	-23.747759	-0.009994244950732	-0.008953351505576	-0.000294170831087
821	massimi	1.927054	3.626745	2.489486	0.009562425831086	0.008517206271377	0.000269243596062
821	minimi	-1.953819	-3.628133	-26.641279	-0.010025180098892	-0.009024353643141	-0.000305895462976
822	massimi	1.897295	3.488657	-1.690908	0.009682518798396	0.008355463708987	0.000269900384936
822	minimi	-1.912233	-3.513731	-22.162726	-0.009994244950732	-0.009247616346673	-0.000305311135435
823	massimi	1.865364	3.559961	-4.187388	0.009897178717462	0.008444569025136	0.000269094574319
823	minimi	-1.86843	-3.573181	-19.98187	-0.00997262075697	-0.009100443522549	-0.000304635574439
824	massimi	1.865108	3.488826	-4.77255	0.009834912966517	0.008403980402078	0.000276885800453
824	minimi	-1.868212	-3.513875	-19.155124	-0.009997621543232	-0.009211173464932	-0.000313543474188
825	massimi	1.866288	3.627731	-3.070739	0.009833935543377	0.008512427559238	0.000272763577563
825	minimi	-1.869383	-3.629108	-21.284059	-0.009995637963162	-0.009019096721482	-0.000309465956943
826	massimi	1.928242	3.489803	1.410244	0.009561386515423	0.008399236180157	0.00027335672739
826	minimi	-1.954997	-3.514842	-25.134913	-0.010023134626298	-0.009205951033491	-0.000309963888659
827	massimi	2.262027	3.310486	2.796922	0.007185027972881	0.005222747624249	0.000235961568958
827	minimi	-2.142254	-3.431267	-20.854449	-0.008058825708514	-0.006427392427529	-0.000256174102589
828	massimi	2.246148	3.355707	0.383089	0.00736647054092	0.005306807520863	0.000230755979801
828	minimi	-2.119723	-3.46984	-19.061005	-0.008063739908583	-0.006334912216531	-0.00025094240625
829	massimi	2.262042	3.35606	2.911264	0.00726266211978	0.005286143370539	0.000243827779899
829	minimi	-2.142278	-3.470182	-21.340641	-0.008074064829519	-0.006381177653373	-0.000264528008235
830	massimi	2.246148	3.261008	0.142667	0.00736647054092	0.005138934165132	0.000253901112664
830	minimi	-2.119723	-3.388269	-18.034692	-0.008063739908583	-0.006520104204586	-0.000272970190378
831	massimi	2.227736	3.310486	-2.336378	0.007547868998695	0.005222747624249	0.00024871899234
831	minimi	-2.094836	-3.431267	-16.176036	-0.008068601390542	-0.006427392427529	-0.000267761962872
832	massimi	2.227846	3.261659	-2.445814	0.007493034507444	0.005179529113282	0.000256952289835
832	minimi	-2.09499	-3.388872	-15.653147	-0.008080265146352	-0.006498735466947	-0.000276816602404
833	massimi	2.228315	3.35599	-1.952828	0.007494040107227	0.00528289566855	0.000248500513059
833	minimi	-2.095372	-3.470202	-16.93063	-0.008079422737524	-0.006376860291853	-0.000268773240771
834	massimi	2.26252	3.261481	2.740473	0.007263654224389	0.005176330492266	0.000252297683873
834	minimi	-2.142669	-3.388786	-20.385352	-0.008073208925519	-0.0064944671864	-0.000272589497066
835	massimi	2.741806	3.801085	-4.050251	0.004205812063653	0.006694502846883	0.000203912322176
835	minimi	-2.500672	-3.890343	-17.806481	-0.005031213501279	-0.007391905907438	-0.000231868484381
836	massimi	2.79532	3.793523	-2.027517	0.004325087520458	0.006732337769726	0.000205112938101
836	minimi	-2.54505	-3.873758	-20.255649	-0.004934998712333	-0.007214242515078	-0.000232324337697
837	massimi	2.742047	3.794021	-2.098376	0.004256454365613	0.006730524820317	0.000210855661731
837	minimi	-2.500888	-3.874201	-19.9604	-0.0050047068483	-0.007292695431283	-0.000239121884796
838	massimi	2.79532	3.803567	-6.11844	0.004325087520458	0.006656597112037	0.00020163364702
838	minimi	-2.54505	-3.901725	-15.709752	-0.004934998712333	-0.007569489878296	-0.000228019304308
839	massimi	2.84532	3.801085	-3.738449	0.004444573137225	0.006694502846883	0.000202568109993
839	minimi	-2.586263	-3.890343	-18.516179	-0.004838986553945	-0.007391905907438	-0.00022820901699
840	massimi	2.845285	3.804034	-5.90494	0.004408026505946	0.006682432764001	0.000209104291065
840	minimi	-2.58625	-3.902089	-16.096859	-0.00488263140795	-0.00751825095565	-0.000236222416067
841	massimi	2.84583	3.79407	-1.56017	0.004407787700898	0.006728145747757	0.000210367904139

841	minimi	-2.586731	-3.87443	-20.895797	-0.004881322738277	-0.007289380712687	-0.000237787851321
842	massimi	2.742584	3.804093	-5.963358	0.004256167358952	0.006680057711791	0.000209601857777
842	minimi	-2.501361	-3.902328	-15.641249	-0.005003349977015	-0.007514940257405	-0.000237566258662
843	massimi	3.090769	3.284872	0.610391	0.001026813782309	0.005039469526446	0.000454532582743
843	minimi	-2.746293	-3.965163	-7.638055	-0.004296650355098	-0.006040950842246	-0.000414167856767
844	massimi	2.937161	3.237681	-1.177923	0.001038371681214	0.005114340097058	0.000466020358151
844	minimi	-2.606464	-3.931507	-7.219858	-0.004237231403849	-0.006044818635929	-0.000427272685209
845	massimi	3.090424	3.238322	-1.216323	0.001031381552723	0.005093137347047	0.000477860538439
845	minimi	-2.746186	-3.932083	-6.130921	-0.00428124074264	-0.006053607760554	-0.000436278438583
846	massimi	2.937161	3.328543	2.561572	0.001038371681214	0.004964551125772	0.000471439257912
846	minimi	-2.606464	-3.994349	-10.306003	-0.004237231403849	-0.006037022855133	-0.000426398191963
847	massimi	2.779529	3.284872	0.762638	0.00105096958972	0.005039469526446	0.000481510175811
847	minimi	-2.463073	-3.965163	-9.877186	-0.004178812972017	-0.006040950842246	-0.000438086162898
848	massimi	2.779999	3.328958	2.63161	0.001046119090051	0.004998033011507	0.000489784325372
848	minimi	-2.463706	-3.994774	-11.409847	-0.004205822426053	-0.006048659278927	-0.000444783618596
849	massimi	2.780667	3.238155	-0.958085	0.001048732938803	0.005097150504626	0.000487508440109
849	minimi	-2.463884	-3.932153	-8.472345	-0.004206899933065	-0.006052713645639	-0.000444808104672
850	massimi	3.091081	3.328763	2.502237	0.001034019163845	0.005002043496897	0.000479914419134
850	minimi	-2.746353	-3.994816	-9.197288	-0.004282342012021	-0.006047762491823	-0.000436031947939
851	massimi	3.230765	1.51316	-3.936427	0.010704211939341	0.00373799219335	0.000304425697242
851	minimi	-2.8602	-1.686	-11.762866	-0.011729435767598	-0.005043478032495	-0.000304517940138
852	massimi	3.224474	1.51867	-4.690223	0.010781200694699	0.003797664437653	0.000310397485925
852	minimi	-2.854192	-1.69193	-11.719501	-0.011653673491772	-0.004950385802076	-0.000309576457123
853	massimi	3.231013	1.518888	-3.668881	0.010748760700458	0.003782502674919	0.000318103932313
853	minimi	-2.860462	-1.692038	-12.438	-0.011720630163782	-0.004993771113302	-0.000317347662647
854	massimi	3.224474	1.505984	-7.041337	0.0107812006947	0.003681639728427	0.000307486678003
854	minimi	-2.854192	-1.678161	-8.51671	-0.011653673491772	-0.005139873925966	-0.000305066705781
855	massimi	3.21437	1.51316	-4.324384	0.01085806374543	0.00373799219335	0.000313605404906
855	minimi	-2.844889	-1.686	-11.944095	-0.011577774740571	-0.005043478032495	-0.000310272160986
856	massimi	3.214658	1.506247	-4.100149	0.010846444437126	0.003708570353095	0.000320395824743
856	minimi	-2.845188	-1.678315	-11.724742	-0.01162433438456	-0.005113818307368	-0.000317803017091
857	massimi	3.214986	1.518821	-3.669229	0.01084838247134	0.003781333908457	0.000321460315923
857	minimi	-2.845392	-1.692237	-13.00583	-0.011624269713027	-0.004991263913106	-0.000319451956694
858	massimi	3.231335	1.506159	-3.999061	0.010750695699024	0.003706984063105	0.000317040831613
858	minimi	-2.860659	-1.678494	-11.257651	-0.011720562456602	-0.005110893583645	-0.000315700113524
859	massimi	2.813361	0.326447	1.009505	0.005625079032603	-0.000281624781924	0.000461063356055
859	minimi	-2.385702	-0.447637	-7.147599	-0.006621620177161	-0.002682519757269	-0.000424694839542
860	massimi	2.81093	0.462785	-1.178933	0.005673012261973	-0.000272497657264	0.00045853146077
860	minimi	-2.395787	-0.596694	-6.233428	-0.006615359617336	-0.002637428979756	-0.000420803254958
861	massimi	2.813699	0.462651	0.848238	0.005649899185466	-0.000277670947472	0.000475347599575
861	minimi	-2.386063	-0.596393	-7.945657	-0.006630451266482	-0.00265755864702	-0.000436688822128
862	massimi	2.81093	0.19986	-0.931998	0.005673012261973	-0.000290740776449	0.000462550632526
862	minimi	-2.395787	-0.308162	-4.546603	-0.006615359617336	-0.002727585072313	-0.000423701294846
863	massimi	2.806699	0.326447	-1.858405	0.00572088388208	-0.000281624781924	0.000460080114299
863	minimi	-2.404649	-0.447637	-4.894462	-0.006609025814895	-0.002682519757269	-0.000419871087319
864	massimi	2.807058	0.200469	-1.676075	0.00571072805346	-0.000289259222915	0.000476457191932
864	minimi	-2.404962	-0.308671	-4.104693	-0.006622454133283	-0.00271479637277	-0.000435984826836
865	massimi	2.8071	0.462284	-2.024596	0.005714407818518	-0.000274897381522	0.000474988036601
865	minimi	-2.404916	-0.596325	-5.686506	-0.006621586695204	-0.002658886586823	-0.000434925469465
866	massimi	2.813746	0.199897	1.167731	0.005653577761968	-0.000286475311733	0.000476816612805
866	minimi	-2.386023	-0.308398	-6.334817	-0.006629582639847	-0.002716134657805	-0.000437748037398
867	massimi	4.953435	1.003068	-5.745444	0.01082496285357	0.006677889191437	0.000210943107998
867	minimi	-4.919738	-0.962301	-10.187078	-0.01084369128692	-0.006552133578485	-0.000204183464706
868	massimi	5.015679	1.00415	-5.414814	0.010886599061228	0.006754985736808	0.000187863941395
868	minimi	-4.984269	-0.965719	-10.433288	-0.010753549418163	-0.006477453644927	-0.000180770437369
869	massimi	4.954337	1.004444	-4.525076	0.010864874258278	0.006736072054979	0.000202758110508
869	minimi	-4.920627	-0.965991	-11.348536	-0.010827881871246	-0.006513643737606	-0.000195607101918
870	massimi	5.015679	1.001406	-5.176406	0.010886599061228	0.00660071324699	0.000189306893148
870	minimi	-4.984269	-0.958357	-10.753737	-0.010753549418163	-0.006626735665431	-0.000182590534858
871	massimi	5.070973	1.003068	-2.973527	0.010948104199006	0.006677889191437	0.000166422664387
871	minimi	-5.041894	-0.962301	-12.872195	-0.010663278122035	-0.006552133578485	-0.000159372445362
872	massimi	5.071565	1.001669	-2.145741	0.01094306052797	0.006638120160436	0.000187003971838
872	minimi	-5.042461	-0.95861	-13.723121	-0.010713332024561	-0.006608427959442	-0.000179884606457
873	massimi	5.071415	1.004113	-2.975612	0.010943402272246	0.006739176797132	0.00018647738156
873	minimi	-5.042341	-0.965682	-12.811354	-0.010713866686662	-0.006516952587132	-0.000179220161251
874	massimi	4.954187	1.001416	-5.484341	0.010865216070562	0.006641223967307	0.000203286662942
874	minimi	-4.920506	-0.958379	-10.471166	-0.010828416601356	-0.006611735873685	-0.00019627350928
875	massimi	4.430541	1.216184	-7.809689	0.010600324566828	0.005236889722488	0.000185001519782
875	minimi	-4.448554	-1.18575	-15.017623	-0.010740679162477	-0.004848455763053	-0.000180304627338

876	massimi	4.484153	1.218467	-10.154709	0.010713230194926	0.005353354854454	0.000164354522221
876	minimi	-4.503719	-1.189594	-12.518879	-0.01063039646396	-0.004741735477322	-0.000159607359103
877	massimi	4.431366	1.218696	-7.421658	0.010658849774633	0.005318063152535	0.000177641003036
877	minimi	-4.449375	-1.189822	-15.252827	-0.010717293480285	-0.004787231064635	-0.00017279647031
878	massimi	4.484153	1.212771	-9.334883	0.010713230194926	0.005120360502518	0.000166339680962
878	minimi	-4.503719	-1.180818	-13.592113	-0.01063039646396	-0.004955116756028	-0.000161874069651
879	massimi	4.531582	1.216184	-7.961634	0.010826003844573	0.005236889722488	0.000146039816593
879	minimi	-4.552676	-1.18575	-14.811638	-0.01051998280958	-0.004848455763053	-0.000141523934608
880	massimi	4.532141	1.212993	-7.064982	0.010802140767934	0.005170127634228	0.000164110252103
880	minimi	-4.553222	-1.181046	-15.808518	-0.010577166825122	-0.004922713194792	-0.000159434795895
881	massimi	4.531959	1.218547	-7.925003	0.010802128809358	0.005320525832749	0.000163383861053
881	minimi	-4.553062	-1.189659	-14.695539	-0.010577750751158	-0.004789820817533	-0.000158605491568
882	massimi	4.431184	1.212889	-7.864768	0.010658838342831	0.005172590757315	0.000178366642689
882	minimi	-4.449214	-1.180928	-15.062676	-0.010717877933095	-0.004925303390562	-0.000173625023242
883	massimi	3.51012	1.209783	-8.090881	0.010514330900226	0.004378844322757	0.000161851731394
883	minimi	-3.542697	-1.19727	-15.194388	-0.010734894524354	-0.003799072126463	-0.000156014998155
884	massimi	3.519888	1.212389	-9.990398	0.010629259849844	0.004490979090022	0.000147484324649
884	minimi	-3.554388	-1.201783	-13.103271	-0.010621650176805	-0.003683037222199	-0.000141749291643
885	massimi	3.510704	1.212582	-7.566189	0.01057365318821	0.004455515902746	0.000157943669481
885	minimi	-3.543286	-1.201982	-15.503407	-0.01071046078113	-0.003729929624871	-0.000151997715816
886	massimi	3.519888	1.206029	-10.264337	0.010629259849844	0.004266658444812	0.000149773042785
886	minimi	-3.554388	-1.191626	-13.207566	-0.010621650176805	-0.003915063077381	-0.000144153765736
887	massimi	3.536375	1.209783	-8.141615	0.010744058699244	0.004378844322757	0.000135878716659
887	minimi	-3.572749	-1.19727	-15.138689	-0.01050827582298	-0.003799072126463	-0.000130361139844
888	massimi	3.536829	1.206227	-7.801746	0.010719514055442	0.004313087480345	0.00014927093618
888	minimi	-3.573198	-1.19184	-15.640458	-0.010566573187319	-0.003877249663514	-0.000143483952402
889	massimi	3.53668	1.212501	-7.990359	0.010719115110884	0.004458712106217	0.00014843289076
889	minimi	-3.573058	-1.201876	-15.074281	-0.010567063653488	-0.003733137502108	-0.000142603595674
890	massimi	3.510517	1.206169	-8.18423	0.010573253453208	0.004316284344854	0.000158779755759
890	minimi	-3.543109	-1.191758	-15.26293	-0.010710950456855	-0.003880458201788	-0.000152876113401
891	massimi	3.313505	1.211799	-8.104498	0.010518268482019	0.004123252501297	0.000166808992132
891	minimi	-3.378856	-1.21087	-15.229398	-0.010749948419568	-0.003532196236592	-0.000156783290516
892	massimi	3.311883	1.212483	-10.023622	0.010633499809583	0.004235021944347	0.000157939641849
892	minimi	-3.380528	-1.214802	-13.118445	-0.010636468407599	-0.003415257970103	-0.000148227165407
893	massimi	3.313959	1.21262	-7.702499	0.010577808079091	0.004200416583943	0.000166736620027
893	minimi	-3.379327	-1.214954	-15.411993	-0.010725543990554	-0.003463194511759	-0.000156587073245
894	massimi	3.311883	1.210016	-10.268175	0.010633499809583	0.00401143653296	0.000160203281707
894	minimi	-3.380528	-1.205842	-13.259488	-0.010636468407599	-0.003649095274432	-0.000150499393302
895	massimi	3.305901	1.211799	-8.138018	0.010748601480585	0.004123252501297	0.000151752071471
895	minimi	-3.377745	-1.21087	-15.197815	-0.01052285870242	-0.003532196236592	-0.000142361408239
896	massimi	3.306377	1.210158	-7.912411	0.010724053270699	0.004058454898371	0.000162052581631
896	minimi	-3.378221	-1.206017	-15.588927	-0.010581357398832	-0.003611664609516	-0.000152138294234
897	massimi	3.306332	1.212662	-7.896595	0.010723453933308	0.004201342007425	0.000161223501383
897	minimi	-3.378176	-1.214947	-15.21983	-0.010581664782712	-0.003464115381206	-0.000151306074873
898	massimi	3.313918	1.210203	-8.066434	0.010577208079959	0.004059381156623	0.000167563307753
898	minimi	-3.379287	-1.206013	-15.43297	-0.010725850712692	-0.003612586313732	-0.000157416900085
899	massimi	3.129139	1.184149	-8.158982	0.010512843968615	0.004106593866773	0.000158242871398
899	minimi	-3.245624	-1.201719	-15.050964	-0.010775954299725	-0.003657451973571	-0.000144617654038
900	massimi	3.120804	1.183835	-9.993108	0.010626281148821	0.004217868789728	0.000154509266261
900	minimi	-3.241742	-1.205762	-13.081934	-0.010661851196582	-0.003541189165967	-0.000141524722004
901	massimi	3.129419	1.183907	-7.848302	0.010571749553692	0.004185929544768	0.000161330222591
901	minimi	-3.245938	-1.205868	-15.188606	-0.010751504877238	-0.00359161888677	-0.000147653939964
902	massimi	3.120804	1.18334	-10.199496	0.010626281148821	0.003995271521163	0.000156839062442
902	minimi	-3.241742	-1.196529	-13.168559	-0.010661851196582	-0.003773672903213	-0.000143691977024
903	massimi	3.108562	1.184149	-8.002672	0.010739588339146	0.004106593866773	0.000153453861462
903	minimi	-3.233785	-1.201719	-15.23048	-0.010547617664443	-0.003657451973571	-0.000140947449147
904	massimi	3.108982	1.183418	-7.847614	0.010715716399166	0.004044597066107	0.000160428922788
904	minimi	-3.234216	-1.196664	-15.504951	-0.01060652676319	-0.00373923136763	-0.000147102175305
905	massimi	3.109006	1.184077	-7.557071	0.010715051569199	0.004181835961897	0.000159575359143
905	minimi	-3.234228	-1.205951	-15.503	-0.010606550948012	-0.00358747073698	-0.000146308023971
906	massimi	3.129639	1.183579	-7.808193	0.010571084432253	0.004040500682763	0.000162180800562
906	minimi	-3.246145	-1.196738	-15.521208	-0.010751528770588	-0.003735080417368	-0.000148445105623
907	massimi	31.777013	41.260986	0.00	0.00	0.00	0.002259142827669
907	minimi	-31.777013	-41.260986	0.00	0.00	0.00	-0.002259142827669
908	massimi	54.636173	68.713117	0.00	0.00	0.00	0.003805180619481
908	minimi	-54.636173	-68.713117	0.00	0.00	0.00	-0.003805180619481
909	massimi	71.296971	83.719085	0.00	0.00	0.00	0.004859074118152
909	minimi	-71.296971	-83.719085	0.00	0.00	0.00	-0.004859074118152
910	massimi	104.008535	128.914168	0.00	0.00	0.00	0.006961028487713

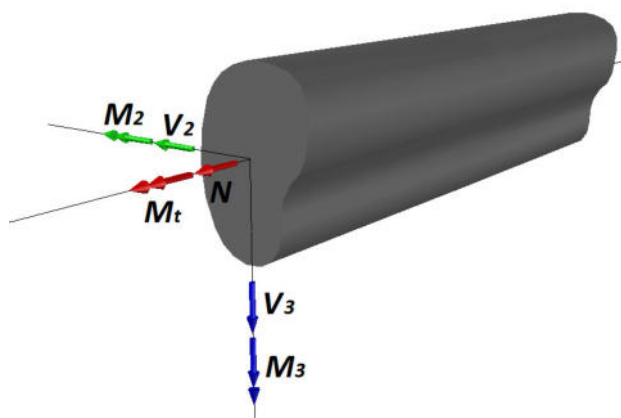
910	minimi	-104.008535	-128.914168	0.00	0.00	0.00	-0.006961028487713
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1.4.2.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N:** sforzo normale;
- **V₂:** sforzo di taglio in direzione 2;
- **V₃:** sforzo di taglio in direzione 3;
- **M_t:** momento torcente;
- **M₂:** momento flettente nel piano 1-2;
- **M₃:** momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 1 (11-1)	31	massimi	0.00	27.01417	2.59005	63.37306	11.12401	117.37704	6.329
Asta 1 (11-1)	31	massimi	237.00	27.01417	2.59005	50.07736	11.12401	11.16467	1.058
Asta 1 (11-1)	31	massimi	474.00	27.01417	2.59005	36.78166	11.12401	114.09081	5.229
Asta 1 (11-1)	31	minimi	0.00	-18.47646	-2.19006	-42.86643	-11.91146	-123.27603	-5.187
Asta 1 (11-1)	31	minimi	237.00	-18.47646	-2.19006	-56.16213	-11.91146	0.02624	-0.863
Asta 1 (11-1)	31	minimi	474.00	-18.47646	-2.19006	-69.45783	-11.91146	-148.83161	-5.982
Asta 2 (1-221)	32	massimi	0.00	56.5539	1.92495	62.29057	12.38047	132.66479	5.363
Asta 2 (1-221)	32	massimi	315.00	56.5539	1.92495	44.61907	12.38047	25.10821	1.02
Asta 2 (1-221)	32	massimi	630.00	56.5539	1.92495	26.94757	12.38047	106.50347	6.357
Asta 2 (1-221)	32	minimi	0.00	-22.50275	-1.8018	-25.33749	-13.00948	-174.62036	-5.216
Asta 2 (1-221)	32	minimi	315.00	-22.50275	-1.8018	-43.00899	-13.00948	-6.3268	-1.261
Asta 2 (1-221)	32	minimi	630.00	-22.50275	-1.8018	-60.68049	-13.00948	-138.31554	-6.986
Asta 3 (6-16)	33	massimi	0.00	30.79646	4.54798	66.37835	10.87943	85.92491	10.041
Asta 3	33	massimi	237.00	30.79646	4.54798	53.08265	10.87943	9.72528	1.416

(6-16)									
Asta 3 (6-16)	33	massimi	474.00	30.79646	4.54798	39.78695	10.87943	111.31874	9.801
Asta 3 (6-16)	33	minimi	0.00	-20.42352	-3.807	-25.52209	-11.92611	-140.29352	-8.271
Asta 3 (6-16)	33	minimi	237.00	-20.42352	-3.807	-38.81779	-11.92611	1.22464	-1.402
Asta 3 (6-16)	33	minimi	474.00	-20.42352	-3.807	-52.11349	-11.92611	-98.0719	-11.543
Asta 4 (221-6)	34	massimi	0.00	54.33433	2.15493	59.85264	16.86	107.11576	6.972
Asta 4 (221-6)	34	massimi	315.00	54.33433	2.15493	42.18114	16.86	25.10166	1.314
Asta 4 (221-6)	34	massimi	630.00	54.33433	2.15493	24.50964	16.86	130.04698	7.179
Asta 4 (221-6)	34	minimi	0.00	-22.19259	-2.35331	-27.1653	-16.16998	-135.7185	-7.664
Asta 4 (221-6)	34	minimi	315.00	-22.19259	-2.35331	-44.8368	-16.16998	-6.4045	-1.38
Asta 4 (221-6)	34	minimi	630.00	-22.19259	-2.35331	-62.5083	-16.16998	-175.38038	-6.62
Asta 5 (26-11)	35	massimi	0.00	18.55938	2.80955	67.97711	11.20636	118.99713	6.014
Asta 5 (26-11)	35	massimi	237.00	18.55938	2.80955	54.68141	11.20636	6.43005	0.702
Asta 5 (26-11)	35	massimi	474.00	18.55938	2.80955	41.38571	11.20636	119.86803	7.649
Asta 5 (26-11)	35	minimi	0.00	-8.0139	-2.96247	-41.46179	-12.16982	-139.32297	-6.402
Asta 5 (26-11)	35	minimi	237.00	-8.0139	-2.96247	-54.75749	-12.16982	4.5746	-0.728
Asta 5 (26-11)	35	minimi	474.00	-8.0139	-2.96247	-68.05319	-12.16982	-140.55449	-7.313
Asta 6 (11-226)	36	massimi	0.00	108.99231	1.58524	52.91739	16.41216	91.75755	4.852
Asta 6 (11-226)	36	massimi	315.00	108.99231	1.58524	35.24589	16.41216	22.40594	0.925
Asta 6 (11-226)	36	massimi	630.00	108.99231	1.58524	17.57439	16.41216	79.1036	4.72
Asta 6 (11-226)	36	minimi	0.00	-63.68338	-1.41607	-13.19702	-16.62042	-142.96092	-4.358
Asta 6 (11-226)	36	minimi	315.00	-63.68338	-1.41607	-30.86852	-16.62042	-4.15536	-0.965
Asta 6 (11-226)	36	minimi	630.00	-63.68338	-1.41607	-48.54002	-16.62042	-102.7295	-5.292
Asta 7 (16-21)	37	massimi	0.00	23.22106	0.74216	45.34056	6.29884	103.97062	2.429
Asta 7 (16-21)	37	massimi	307.50	23.22106	0.74216	35.56206	6.29884	7.45354	0.396
Asta 7 (16-21)	37	massimi	615.00	23.22106	0.74216	25.78356	6.29884	97.77806	2.176
Asta 7 (16-21)	37	minimi	0.00	-7.79561	-0.78207	-26.66713	-7.28174	-120.94147	-2.639
Asta 7 (16-21)	37	minimi	307.50	-7.79561	-0.78207	-36.44563	-7.28174	2.92753	-0.484
Asta 7 (16-21)	37	minimi	615.00	-7.79561	-0.78207	-46.22413	-7.28174	-120.18285	-2.141
Asta 8 (16-31)	38	massimi	0.00	31.70979	4.31554	61.74009	12.10911	93.57026	11.461
Asta 8 (16-31)	38	massimi	237.00	31.70979	4.31554	48.44439	12.10911	6.7424	1.328
Asta 8 (16-31)	38	massimi	474.00	31.70979	4.31554	35.1487	12.10911	104.62311	7.913
Asta 8 (16-31)	38	minimi	0.00	-11.84255	-3.78734	-30.36563	-12.74798	-125.00558	-10.051
Asta 8 (16-31)	38	minimi	237.00	-11.84255	-3.78734	-43.66133	-12.74798	4.66896	-1.17
Asta 8 (16-31)	38	minimi	474.00	-11.84255	-3.78734	-56.95703	-12.74798	-113.38669	-9.007
Asta 9	39	massimi	0.00	67.17679	1.82152	53.28087	19.42604	95.17706	5.366

(226-16)									
Asta 9 (226-16)	39	massimi	315.00	67.17679	1.82152	35.60937	19.42604	22.95447	0.816
Asta 9 (226-16)	39	massimi	630.00	67.17679	1.82152	17.93787	19.42604	107.24342	6.657
Asta 9 (226-16)	39	minimi	0.00	-26.10173	-2.02872	-22.59126	-18.92381	-117.10792	-6.13
Asta 9 (226-16)	39	minimi	315.00	-26.10173	-2.02872	-40.26276	-18.92381	-3.8783	-0.927
Asta 9 (226-16)	39	minimi	630.00	-26.10173	-2.02872	-57.93426	-18.92381	-158.49067	-6.116
Asta 10 (21-36)	40	massimi	0.00	22.63259	0.57671	56.11538	5.0929	90.53172	1.557
Asta 10 (21-36)	40	massimi	237.00	22.63259	0.57671	48.57878	5.0929	14.51832	0.435
Asta 10 (21-36)	40	massimi	474.00	22.63259	0.57671	41.04218	5.0929	96.76157	0.928
Asta 10 (21-36)	40	minimi	0.00	7.55136	-0.35868	-28.30578	-6.23475	-133.50245	-0.923
Asta 10 (21-36)	40	minimi	237.00	7.55136	-0.35868	-35.84238	-6.23475	-9.44204	-0.318
Asta 10 (21-36)	40	minimi	474.00	7.55136	-0.35868	-43.37898	-6.23475	-79.36176	-1.328
Asta 11 (41-26)	41	massimi	0.00	12.69603	1.65576	67.39853	11.72231	117.20644	3.988
Asta 11 (41-26)	41	massimi	237.00	12.69603	1.65576	54.10283	11.72231	5.31492	0.142
Asta 11 (41-26)	41	massimi	474.00	12.69603	1.65576	40.80713	11.72231	117.74431	3.099
Asta 11 (41-26)	41	minimi	0.00	-4.63195	-1.47335	-40.56787	-11.63348	-138.70309	-3.892
Asta 11 (41-26)	41	minimi	237.00	-4.63195	-1.47335	-53.86356	-11.63348	5.26629	-0.477
Asta 11 (41-26)	41	minimi	474.00	-4.63195	-1.47335	-67.15926	-11.63348	-138.10685	-3.867
Asta 12 (26-231)	42	massimi	0.00	72.89867	1.67907	46.62997	16.76085	72.88276	5.202
Asta 12 (26-231)	42	massimi	315.00	72.89867	1.67907	28.95847	16.76085	19.80199	1.397
Asta 12 (26-231)	42	massimi	630.00	72.89867	1.67907	11.28697	16.76085	61.75207	4.991
Asta 12 (26-231)	42	minimi	0.00	-34.31476	-1.53389	-8.03383	-16.84973	-120.70314	-4.829
Asta 12 (26-231)	42	minimi	315.00	-34.31476	-1.53389	-25.70532	-16.84973	-1.70974	-1.482
Asta 12 (26-231)	42	minimi	630.00	-34.31476	-1.53389	-43.37682	-16.84973	-89.07765	-5.533
Asta 13 (31-36)	43	massimi	0.00	20.98727	0.77325	38.33208	2.20681	77.69783	2.397
Asta 13 (31-36)	43	massimi	307.50	20.98727	0.77325	28.55358	2.20681	6.56789	0.203
Asta 13 (31-36)	43	massimi	615.00	20.98727	0.77325	18.77508	2.20681	76.08542	2.697
Asta 13 (31-36)	43	minimi	0.00	1.39811	-0.88755	-18.35455	-2.22789	-99.5309	-2.765
Asta 13 (31-36)	43	minimi	307.50	1.39811	-0.88755	-28.13305	-2.22789	2.96106	-0.219
Asta 13 (31-36)	43	minimi	615.00	1.39811	-0.88755	-37.91155	-2.22789	-95.33223	-2.362
Asta 14 (31-46)	44	massimi	0.00	25.79591	2.30487	60.6391	11.45229	98.13164	5.39
Asta 14 (31-46)	44	massimi	237.00	25.79591	2.30487	47.3434	11.45229	5.66288	0.669
Asta 14 (31-46)	44	massimi	474.00	25.79591	2.30487	34.0477	11.45229	102.06176	4.312
Asta 14 (31-46)	44	minimi	0.00	-5.83887	-1.68682	-32.51066	-11.42457	-122.34602	-3.692
Asta 14 (31-46)	44	minimi	237.00	-5.83887	-1.68682	-45.80635	-11.42457	5.27635	-0.436
Asta 14	44	minimi	474.00	-5.83887	-1.68682	-59.10205	-11.42457	-118.99054	-5.544

(31-46)									
Asta 15 (231-31)	45	massimi	0.00	34.45394	2.08333	45.54645	19.42148	71.04663	5.779
Asta 15 (231-31)	45	massimi	315.00	34.45394	2.08333	27.87495	19.42148	20.0305	1.651
Asta 15 (231-31)	45	massimi	630.00	34.45394	2.08333	10.20345	19.42148	79.9488	8.042
Asta 15 (231-31)	45	minimi	0.00	-2.65763	-2.28579	-13.88919	-19.43176	-95.67719	-6.384
Asta 15 (231-31)	45	minimi	315.00	-2.65763	-2.28579	-31.56068	-19.43176	-0.60591	-1.618
Asta 15 (231-31)	45	minimi	630.00	-2.65763	-2.28579	-49.23218	-19.43176	-127.7995	-7.371
Asta 16 (36-51)	46	massimi	0.00	67.64222	1.93769	55.04642	6.72672	83.25903	2.945
Asta 16 (36-51)	46	massimi	237.00	67.64222	1.93769	47.50981	6.72672	7.89238	1.936
Asta 16 (36-51)	46	massimi	474.00	67.64222	1.93769	39.97321	6.72672	111.54923	6.08
Asta 16 (36-51)	46	minimi	0.00	-6.66149	-1.76931	-31.10702	-5.05521	-113.64808	-2.535
Asta 16 (36-51)	46	minimi	237.00	-6.66149	-1.76931	-38.64362	-5.05521	0.5932	-1.925
Asta 16 (36-51)	46	minimi	474.00	-6.66149	-1.76931	-46.18022	-5.05521	-99.91251	-6.468
Asta 17 (71-41)	47	massimi	0.00	9.16475	2.07895	68.01055	12.24199	118.52657	4.924
Asta 17 (71-41)	47	massimi	237.00	9.16475	2.07895	54.71486	12.24199	6.05435	0.789
Asta 17 (71-41)	47	massimi	474.00	9.16475	2.07895	41.41916	12.24199	119.18826	4.553
Asta 17 (71-41)	47	minimi	0.00	-2.34353	-2.1174	-41.0655	-11.04993	-140.16132	-5.51
Asta 17 (71-41)	47	minimi	237.00	-2.34353	-2.1174	-54.3612	-11.04993	4.65987	-1.284
Asta 17 (71-41)	47	minimi	474.00	-2.34353	-2.1174	-67.6569	-11.04993	-139.14669	-4.957
Asta 18 (41-236)	48	massimi	0.00	64.42122	1.65757	45.44304	16.79119	68.62531	4.829
Asta 18 (41-236)	48	massimi	315.00	64.42122	1.65757	27.77154	16.79119	19.50176	0.928
Asta 18 (41-236)	48	massimi	630.00	64.42122	1.65757	10.10004	16.79119	58.21189	5.298
Asta 18 (41-236)	48	minimi	0.00	-28.65644	-1.65103	-6.77579	-16.85638	-116.76431	-5.242
Asta 18 (41-236)	48	minimi	315.00	-28.65644	-1.65103	-24.44729	-16.85638	-1.50415	-1.362
Asta 18 (41-236)	48	minimi	630.00	-28.65644	-1.65103	-42.11879	-16.85638	-85.40812	-5.753
Asta 19 (46-51)	49	massimi	0.00	32.74538	1.35787	39.11445	1.90909	70.66766	2.925
Asta 19 (46-51)	49	massimi	307.50	32.74538	1.35787	29.33594	1.90909	8.79554	1.274
Asta 19 (46-51)	49	massimi	615.00	32.74538	1.35787	19.55744	1.90909	77.77103	5.596
Asta 19 (46-51)	49	minimi	0.00	-7.28907	-1.41928	-15.2692	-3.13771	-102.65245	-3.151
Asta 19 (46-51)	49	minimi	307.50	-7.28907	-1.41928	-25.0477	-3.13771	2.47491	-1.31
Asta 19 (46-51)	49	minimi	615.00	-7.28907	-1.41928	-34.8262	-3.13771	-83.38312	-5.444
Asta 20 (46-76)	50	massimi	0.00	19.49544	3.44161	60.74969	11.93947	101.47854	7.564
Asta 20 (46-76)	50	massimi	237.00	19.49544	3.44161	47.45399	11.93947	6.12885	0.946
Asta 20 (46-76)	50	massimi	474.00	19.49544	3.44161	34.15829	11.93947	102.06391	7.337
Asta 20 (46-76)	50	minimi	0.00	-0.72337	-2.8232	-33.77582	-10.8948	-122.86907	-6.057
Asta 20	50	minimi	237.00	-0.72337	-2.8232	-47.07152	-10.8948	4.89789	-0.905

(46-76)									
Asta 20 (46-76)	50	minimi	474.00	-0.72337	-2.8232	-60.36722	-10.8948	-121.64152	-8.762
Asta 21 (236-46)	51	massimi	0.00	26.34837	2.06147	44.4585	19.14583	66.69213	6.072
Asta 21 (236-46)	51	massimi	315.00	26.34837	2.06147	26.787	19.14583	19.85416	1.289
Asta 21 (236-46)	51	massimi	630.00	26.34837	2.06147	9.1155	19.14583	76.35426	7.895
Asta 21 (236-46)	51	minimi	0.00	2.00146	-2.26743	-12.43559	-19.52588	-92.41562	-6.416
Asta 21 (236-46)	51	minimi	315.00	2.00146	-2.26743	-30.10709	-19.52588	-0.37073	-0.983
Asta 21 (236-46)	51	minimi	630.00	2.00146	-2.26743	-47.77859	-19.52588	-122.99435	-6.941
Asta 22 (66-51)	52	massimi	0.00	109.40447	15.89034	34.04213	29.87697	5.83973	20.711
Asta 22 (66-51)	52	massimi	116.50	109.40447	15.89034	30.33743	29.87697	29.30728	2.541
Asta 22 (66-51)	52	massimi	233.00	109.40447	15.89034	26.63273	29.87697	62.46081	17.102
Asta 22 (66-51)	52	minimi	0.00	-31.63947	-16.59206	-25.79439	1.77721	-12.46048	-21.739
Asta 22 (66-51)	52	minimi	116.50	-31.63947	-16.59206	-29.49909	1.77721	-30.63539	-2.752
Asta 22 (66-51)	52	minimi	233.00	-31.63947	-16.59206	-33.20379	1.77721	-67.12823	-16.495
Asta 23 (61-56)	53	massimi	0.00	9.18686	19.15877	30.02476	9.87372	41.93458	9.43
Asta 23 (61-56)	53	massimi	204.50	17.94753	1.99041	6.57034	9.87371	-12.32762	8.436
Asta 23 (61-56)	53	massimi	409.00	38.01494	21.23059	72.40522	9.87371	-1.11635	13.495
Asta 23 (61-56)	53	minimi	0.00	-6.29909	-18.00193	-71.42455	1.91486	-52.93551	-7.459
Asta 23 (61-56)	53	minimi	204.50	-20.85067	-1.13885	-30.64341	1.91487	-58.62044	-8.575
Asta 23 (61-56)	53	minimi	409.00	-46.7428	-20.95702	-8.4057	1.91488	-63.62879	-14.851
Asta 24 (56-66)	54	massimi	0.00	38.08869	4.05614	38.40311	5.12742	-23.29391	8.97
Asta 24 (56-66)	54	massimi	205.50	38.08869	4.05614	31.86821	5.12742	-2.48088	0.824
Asta 24 (56-66)	54	massimi	411.00	38.08869	4.05614	25.33331	5.12742	53.60141	7.635
Asta 24 (56-66)	54	minimi	0.00	-36.36451	-3.95551	12.65784	-7.48775	-77.44077	-8.63
Asta 24 (56-66)	54	minimi	205.50	-36.36451	-3.95551	6.12294	-7.48775	-6.75277	-0.69
Asta 24 (56-66)	54	minimi	411.00	-36.36451	-3.95551	-0.41196	-7.48775	1.80753	-7.709
Asta 25 (56-86)	55	massimi	0.00	17.14708	13.6878	-35.95945	12.72423	71.08159	6.711
Asta 25 (56-86)	55	massimi	166.00	6.06974	6.37878	46.17596	12.72424	-32.9178	9.916
Asta 25 (56-86)	55	massimi	332.00	17.158	34.35747	96.06441	12.72424	80.71143	21.483
Asta 25 (56-86)	55	minimi	0.00	-16.62974	-18.30439	-94.0148	-14.29472	-54.8421	-8.84
Asta 25 (56-86)	55	minimi	166.00	-6.23381	-6.55024	-42.72403	-14.29472	-46.4365	-8.156
Asta 25 (56-86)	55	minimi	332.00	-18.00474	-30.43613	37.17685	-14.29471	-54.83052	-22.846
Asta 26 (91-61)	56	massimi	0.00	17.11128	32.0107	18.6785	14.10755	70.19793	18.151
Asta 26 (91-61)	56	massimi	166.00	4.16881	5.26193	50.29244	14.10755	-0.8737	9.346
Asta 26 (91-61)	56	massimi	332.00	18.48347	15.2691	48.22784	14.10755	69.28815	9.157
Asta 26	56	minimi	0.00	-17.83993	-28.19906	-42.92361	-13.64442	-77.54959	-17.016

(91-61)									
Asta 26 (91-61)	56	minimi	166.00	-4.83412	-5.49705	-51.78337	-13.64441	-24.93071	-11.184
Asta 26 (91-61)	56	minimi	332.00	-19.09053	-19.8915	-25.4672	-13.64441	-80.84487	-7.05
Asta 27 (81-66)	57	massimi	0.00	106.02566	21.37544	29.44011	0.13876	77.4484	28.756
Asta 27 (81-66)	57	massimi	120.50	106.02566	21.37544	25.60821	0.13876	38.08996	3.41
Asta 27 (81-66)	57	massimi	241.00	106.02566	21.37544	21.77631	0.13876	3.30778	21.976
Asta 27 (81-66)	57	minimi	0.00	-28.36128	-20.35298	-30.78612	-23.89351	-64.71584	-27.247
Asta 27 (81-66)	57	minimi	120.50	-28.36128	-20.35298	-34.61802	-23.89351	-31.59678	-3.133
Asta 27 (81-66)	57	minimi	241.00	-28.36128	-20.35298	-38.44992	-23.89351	-12.28887	-22.931
Asta 28 (101-71)	58	massimi	0.00	9.63326	7.26173	71.55693	11.28745	127.49668	22.923
Asta 28 (101-71)	58	massimi	237.00	9.63326	7.26173	58.26123	11.28745	11.73006	5.732
Asta 28 (101-71)	58	massimi	474.00	9.63326	7.26173	44.96553	11.28745	121.95932	8.228
Asta 28 (101-71)	58	minimi	0.00	-5.66076	-5.45313	-42.21796	-10.45589	-154.19932	-17.643
Asta 28 (101-71)	58	minimi	237.00	-5.66076	-5.45313	-55.51366	-10.45589	-0.41016	-4.739
Asta 28 (101-71)	58	minimi	474.00	-5.66076	-5.45313	-68.80936	-10.45589	-135.63849	-11.522
Asta 29 (71-241)	59	massimi	0.00	54.30792	1.21106	46.22831	16.71274	67.1808	3.467
Asta 29 (71-241)	59	massimi	315.00	54.30792	1.21106	28.55681	16.71274	19.54438	1.266
Asta 29 (71-241)	59	massimi	630.00	54.30792	1.21106	10.88531	16.71274	60.48871	4.786
Asta 29 (71-241)	59	minimi	0.00	-12.01768	-1.44107	-6.3061	-16.73251	-119.4351	-5.078
Asta 29 (71-241)	59	minimi	315.00	-12.01768	-1.44107	-23.9776	-16.73251	-1.70894	-2.153
Asta 29 (71-241)	59	minimi	630.00	-12.01768	-1.44107	-41.64909	-16.73251	-83.89396	-4.948
Asta 30 (76-81)	60	massimi	0.00	106.93011	1.97766	39.59776	4.9585	67.9164	4.022
Asta 30 (76-81)	60	massimi	307.50	106.93011	1.97766	29.81925	4.9585	12.66668	2.087
Asta 30 (76-81)	60	massimi	615.00	106.93011	1.97766	20.04075	4.9585	78.386	7.844
Asta 30 (76-81)	60	minimi	0.00	-68.5763	-1.89513	-13.0872	-6.57372	-105.00646	-3.838
Asta 30 (76-81)	60	minimi	307.50	-68.5763	-1.89513	-22.8657	-6.57372	1.69434	-2.157
Asta 30 (76-81)	60	minimi	615.00	-68.5763	-1.89513	-32.6442	-6.57372	-72.71169	-8.168
Asta 31 (76-106)	61	massimi	0.00	13.72526	4.83473	60.91173	11.34425	110.66843	7.692
Asta 31 (76-106)	61	massimi	237.00	13.72526	4.83473	47.61603	11.34425	9.81041	5.566
Asta 31 (76-106)	61	massimi	474.00	13.72526	4.83473	34.32033	11.34425	106.90069	16.933
Asta 31 (76-106)	61	minimi	0.00	-0.50498	-4.83369	-39.41558	-10.06383	-118.7996	-7.717
Asta 31 (76-106)	61	minimi	237.00	-0.50498	-4.83369	-52.71128	-10.06383	1.49347	-5.593
Asta 31 (76-106)	61	minimi	474.00	-0.50498	-4.83369	-66.00698	-10.06383	-139.18337	-16.963
Asta 32 (241-76)	62	massimi	0.00	39.48249	1.89031	45.06659	19.12288	66.43456	5.72
Asta 32 (241-76)	62	massimi	315.00	39.48249	1.89031	27.39509	19.12288	20.0245	1.618
Asta 32	62	massimi	630.00	39.48249	1.89031	9.72359	19.12288	78.43545	7.022

(241-76)									
Asta 32 (241-76)	62	minimi	0.00	-1.26857	-2.00865	-12.38201	-19.85045	-94.16648	-5.676
Asta 32 (241-76)	62	minimi	315.00	-1.26857	-2.00865	-30.05351	-19.85045	-0.46521	-1.201
Asta 32 (241-76)	62	minimi	630.00	-1.26857	-2.00865	-47.72501	-19.85045	-122.9154	-6.232
Asta 33 (96-81)	63	massimi	0.00	142.85072	82.47922	40.25255	49.21512	46.68605	31.767
Asta 33 (96-81)	63	massimi	45.50	142.85072	82.47922	38.80565	49.21512	64.41729	7.207
Asta 33 (96-81)	63	massimi	91.00	142.85072	82.47922	37.35874	49.21512	81.55598	45.507
Asta 33 (96-81)	63	minimi	0.00	-64.57645	-86.15252	-16.71626	-1.88262	-43.23601	-33.026
Asta 33 (96-81)	63	minimi	45.50	-64.57645	-86.15252	-18.16316	-1.88262	-50.91658	-6.795
Asta 33 (96-81)	63	minimi	91.00	-64.57645	-86.15252	-19.61006	-1.88262	-59.32127	-43.423
Asta 34 (86-91)	64	massimi	0.00	78.4346	20.60646	18.05416	-0.72804	-1.75766	16.701
Asta 34 (86-91)	64	massimi	204.50	44.28091	7.56124	29.93931	-0.72804	-6.71866	8.663
Asta 34 (86-91)	64	massimi	409.00	13.14587	20.18865	65.36569	-0.72803	42.41037	17.876
Asta 34 (86-91)	64	minimi	0.00	-84.69547	-21.91446	-75.55101	-9.12303	-64.98705	-18.407
Asta 34 (86-91)	64	minimi	204.50	-45.54417	-8.20307	-6.15272	-9.12303	-61.18977	-8.454
Asta 34 (86-91)	64	minimi	409.00	-9.42624	-20.6371	-27.85475	-9.12303	-54.43316	-16.61
Asta 35 (86-96)	65	massimi	0.00	95.12617	5.71624	41.69289	5.88803	-17.90658	10.443
Asta 35 (86-96)	65	massimi	205.50	95.12617	5.71624	35.15798	5.88803	0.74025	2.672
Asta 35 (86-96)	65	massimi	411.00	95.12617	5.71624	28.62308	5.88803	64.45228	13.535
Asta 35 (86-96)	65	minimi	0.00	-91.14562	-5.64996	10.19362	2.22502	-80.09925	-10.474
Asta 35 (86-96)	65	minimi	205.50	-91.14562	-5.64996	3.65872	2.22502	-5.54853	-2.84
Asta 35 (86-96)	65	minimi	411.00	-91.14562	-5.64996	-2.87618	2.22502	-2.92147	-13.839
Asta 36 (111-96)	66	massimi	0.00	139.66419	8.67059	40.27561	1.15831	52.74858	13.052
Asta 36 (111-96)	66	massimi	191.50	139.66419	8.67059	34.18591	1.15831	12.25982	3.221
Asta 36 (111-96)	66	massimi	383.00	139.66419	8.67059	28.0962	1.15831	51.56869	19.221
Asta 36 (111-96)	66	minimi	0.00	-61.45619	-8.36334	-18.12742	-15.35663	-79.36595	-12.832
Asta 36 (111-96)	66	minimi	191.50	-61.45619	-8.36334	-24.21712	-15.35663	-8.12518	-3.589
Asta 36 (111-96)	66	minimi	383.00	-61.45619	-8.36334	-30.30682	-15.35663	-40.0056	-20.177
Asta 37 (116-101)	67	massimi	0.00	85.63269	16.05636	41.10296	11.91945	99.63161	22.73
Asta 37 (116-101)	67	massimi	173.00	85.63269	16.05636	31.39766	11.91945	21.20374	5.67
Asta 37 (116-101)	67	massimi	346.00	85.63269	16.05636	21.69236	11.91945	67.05699	36.336
Asta 37 (116-101)	67	minimi	0.00	-14.47487	-17.78791	-66.36169	-11.03566	-41.62191	-25.24
Asta 37 (116-101)	67	minimi	173.00	-14.47487	-17.78791	-76.06699	-11.03566	-23.68181	-5.185

Asta 37 (116-101)	67	minimi	346.00	-14.47487	-17.78791	-85.77229	-11.03566	-163.60316	-32.855
Asta 38 (106-111)	68	massimi	0.00	35.86034	1.07882	41.38557	2.46876	94.28476	3.96
Asta 38 (106-111)	68	massimi	307.50	35.86034	1.07882	31.60707	2.46876	9.61359	0.707
Asta 38 (106-111)	68	massimi	615.00	35.86034	1.07882	21.82857	2.46876	83.72798	2.637
Asta 38 (106-111)	68	minimi	0.00	-4.02627	-1.02866	-22.65427	-5.22766	-110.65765	-3.705
Asta 38 (106-111)	68	minimi	307.50	-4.02627	-1.02866	-32.43277	-5.22766	1.54338	-0.606
Asta 38 (106-111)	68	minimi	615.00	-4.02627	-1.02866	-42.21127	-5.22766	-105.17894	-2.69
Asta 39 (121-106)	69	massimi	0.00	49.51074	23.56655	52.0115	10.04437	67.45345	22.719
Asta 39 (121-106)	69	massimi	127.00	49.51074	23.56655	44.8868	10.04437	21.97738	7.378
Asta 39 (121-106)	69	massimi	254.00	49.51074	23.56655	37.7621	10.04437	73.93396	38.60
Asta 39 (121-106)	69	minimi	0.00	10.65665	-24.69676	-70.42433	-10.41754	-40.40784	-24.228
Asta 39 (121-106)	69	minimi	127.00	10.65665	-24.69676	-77.54903	-10.41754	-27.36442	-7.451
Asta 39 (121-106)	69	minimi	254.00	10.65665	-24.69676	-84.67373	-10.41754	-129.85039	-37.238
Asta 40 (111-141)	70	massimi	0.00	169.32724	7.83564	51.2538	6.43394	118.41917	11.026
Asta 40 (111-141)	70	massimi	165.00	169.32724	7.83564	46.0068	6.43394	23.1762	1.414
Asta 40 (111-141)	70	massimi	330.00	169.32724	7.83564	40.7598	6.43394	63.48545	15.569
Asta 40 (111-141)	70	minimi	0.00	-120.00133	-8.59195	-55.36927	-3.25136	-88.42129	-12.79
Asta 40 (111-141)	70	minimi	165.00	-120.00133	-8.59195	-60.61627	-3.25136	-8.62639	-1.93
Asta 40 (111-141)	70	minimi	330.00	-120.00133	-8.59195	-65.86327	-3.25136	-81.69881	-14.837
Asta 41 (116-121)	71	massimi	0.00	91.3802	3.06465	46.58357	9.34936	83.38016	18.319
Asta 41 (116-121)	71	massimi	330.00	91.3802	3.06465	28.07057	9.34936	20.04073	11.437
Asta 41 (116-121)	71	massimi	660.00	91.3802	3.06465	9.55757	9.34936	78.71201	13.311
Asta 41 (116-121)	71	minimi	0.00	22.05985	-2.45851	-12.43204	-10.36767	-106.63337	-15.791
Asta 41 (116-121)	71	minimi	330.00	22.05985	-2.45851	-30.94504	-10.36767	8.31322	-10.909

121)									
Asta 41 (116-121)	71	minimi	660.00	22.05985	-2.45851	-49.45804	-10.36767	-120.93669	-14.783
Asta 42 (126-116)	72	massimi	0.00	20.50256	0.67993	44.30817	10.72945	105.08121	1.978
Asta 42 (126-116)	72	massimi	330.00	20.50256	0.67993	33.81417	10.72945	8.00685	0.972
Asta 42 (126-116)	72	massimi	660.00	20.50256	0.67993	23.32017	10.72945	98.73236	3.389
Asta 42 (126-116)	72	minimi	0.00	-0.7445	-0.82961	-24.23348	-6.02674	-124.44201	-2.666
Asta 42 (126-116)	72	minimi	330.00	-0.7445	-0.82961	-34.72748	-6.02674	4.24862	-1.167
Asta 42 (126-116)	72	minimi	660.00	-0.7445	-0.82961	-45.22149	-6.02674	-124.12103	-3.089
Asta 43 (121-136)	73	massimi	0.00	28.8185	1.93855	74.55484	7.76109	114.83967	5.467
Asta 43 (121-136)	73	massimi	165.00	28.8185	1.93855	69.30784	7.76109	14.53859	2.278
Asta 43 (121-136)	73	massimi	330.00	28.8185	1.93855	64.06084	7.76109	100.36436	4.362
Asta 43 (121-136)	73	minimi	0.00	-11.92969	-3.75868	-58.19054	-8.79335	-128.36083	-8.311
Asta 43 (121-136)	73	minimi	165.00	-11.92969	-3.75868	-63.43754	-8.79335	-9.71621	-2.119
Asta 43 (121-136)	73	minimi	330.00	-11.92969	-3.75868	-68.68454	-8.79335	-94.51353	-1.199
Asta 44 (131-126)	74	massimi	0.00	61.26749	0.46687	37.77437	5.08179	74.22203	1.704
Asta 44 (131-126)	74	massimi	330.00	61.26749	0.46687	27.28037	5.08179	13.10839	0.316
Asta 44 (131-126)	74	massimi	660.00	61.26749	0.46687	16.78637	5.08179	85.81166	1.911
Asta 44 (131-126)	74	minimi	0.00	-36.37892	-0.60422	-17.17225	-6.00691	-94.23998	-2.10
Asta 44 (131-126)	74	minimi	330.00	-36.37892	-0.60422	-27.66625	-6.00691	0.23047	-0.259
Asta 44 (131-126)	74	minimi	660.00	-36.37892	-0.60422	-38.16025	-6.00691	-108.37641	-1.401
Asta 45 (136-131)	75	massimi	0.00	12.97801	3.89535	61.83829	5.6546	96.03887	5.441
Asta 45 (136-131)	75	massimi	165.00	12.97801	3.89535	56.59129	5.6546	15.26243	0.964
Asta 45 (136-131)	75	massimi	330.00	12.97801	3.89535	51.34429	5.6546	104.17167	6.014
Asta 45 (136-131)	75	minimi	0.00	2.70409	-3.07571	-62.64719	-3.22033	-82.58914	-4.141
Asta 45	75	minimi	165.00	2.70409	-3.07571	-67.89419	-3.22033	-11.80494	-1.016

(136-131)									
Asta 45 (136-131)	75	minimi	330.00	2.70409	-3.07571	-73.14119	-3.22033	-128.02152	-7.418
Asta 46 (156-131)	76	massimi	0.00	130.31789	2.60108	35.04809	5.43077	41.75335	6.546
Asta 46 (156-131)	76	massimi	244.50	130.31789	2.60108	27.27299	5.43077	21.41855	1.878
Asta 46 (156-131)	76	massimi	489.00	130.31789	2.60108	19.49789	5.43077	78.58099	7.265
Asta 46 (156-131)	76	minimi	0.00	-118.11861	-2.57011	-16.17069	-6.22448	-54.79196	-6.188
Asta 46 (156-131)	76	minimi	244.50	-118.11861	-2.57011	-23.94579	-6.22448	-7.31205	-1.596
Asta 46 (156-131)	76	minimi	489.00	-118.11861	-2.57011	-31.7209	-6.22448	-75.34963	-7.059
Asta 47 (136-151)	77	massimi	0.00	22.26186	1.84129	40.99554	14.06526	90.01883	4.714
Asta 47 (136-151)	77	massimi	244.50	22.26186	1.84129	33.22044	14.06526	12.34652	0.566
Asta 47 (136-151)	77	massimi	489.00	22.26186	1.84129	25.44534	14.06526	68.40355	4.299
Asta 47 (136-151)	77	minimi	0.00	-6.30244	-1.89647	-27.88337	-14.9156	-94.04602	-4.987
Asta 47 (136-151)	77	minimi	244.50	-6.30244	-1.89647	-35.65847	-14.9156	-3.32458	-0.704
Asta 47 (136-151)	77	minimi	489.00	-6.30244	-1.89647	-43.43357	-14.9156	-84.35271	-4.303
Asta 48 (146-141)	78	massimi	0.00	30.22763	57.23825	81.72037	45.31087	127.58634	68.76
Asta 48 (146-141)	78	massimi	165.00	113.89232	21.66022	102.9338	45.31088	30.25909	46.268
Asta 48 (146-141)	78	massimi	330.00	198.46082	72.0141	327.37441	45.3109	222.43521	27.776
Asta 48 (146-141)	78	minimi	0.00	-17.54579	-57.4607	-132.0951	-52.51271	-156.44362	-68.411
Asta 48 (146-141)	78	minimi	165.00	-107.66651	-22.65012	-106.83417	-52.51272	-131.3928	-45.437
Asta 48 (146-141)	78	minimi	330.00	-198.64387	-77.3548	-4.97288	-52.51274	-109.72036	-22.175
Asta 49 (151-141)	79	massimi	0.00	48.50774	3.23288	38.99366	19.59348	84.32134	5.011
Asta 49 (151-141)	79	massimi	190.00	48.50774	3.23288	32.95166	19.59348	5.78793	1.945
Asta 49 (151-141)	79	massimi	380.00	48.50774	3.23288	26.90966	19.59348	62.33639	5.601
Asta 49 (151-141)	79	minimi	0.00	-43.52634	-2.08749	-43.11851	-29.28891	-62.90525	-3.087

Asta 49 (151-141)	79	minimi	190.00	-43.52634	-2.08749	-49.16051	-29.28891	-3.68886	-2.197
Asta 49 (151-141)	79	minimi	380.00	-43.52634	-2.08749	-55.20251	-29.28891	-102.51395	-8.029
Asta 50 (156-146)	80	massimi	0.00	130.95049	34.75874	-40.30025	47.47966	78.55042	7.273
Asta 50 (156-146)	80	massimi	190.00	61.80386	12.35678	77.98553	47.47963	22.0715	23.618
Asta 50 (156-146)	80	massimi	380.00	33.71395	91.05179	150.00999	47.47961	135.72544	69.904
Asta 50 (156-146)	80	minimi	0.00	-126.3916	-33.66726	-187.4939	-57.73715	-44.28617	-7.877
Asta 50 (156-146)	80	minimi	190.00	-58.58911	-12.09253	-44.14805	-57.73713	-113.80245	-26.065
Asta 50 (156-146)	80	minimi	380.00	-31.81102	-95.77851	-102.2787	-57.73712	-127.2047	-68.877
Asta 51 (12-2)	81	massimi	0.00	-1.48665	-0.5079	119.72302	4.98082	225.33581	-1.003
Asta 51 (12-2)	81	massimi	237.00	-1.48665	-0.5079	97.47262	4.98082	24.13041	0.201
Asta 51 (12-2)	81	massimi	474.00	-1.48665	-0.5079	75.22223	4.98082	228.75537	1.405
Asta 51 (12-2)	81	minimi	0.00	-1.48665	-0.5079	-85.79176	-7.689	-233.26711	-1.003
Asta 51 (12-2)	81	minimi	237.00	-1.48665	-0.5079	-108.04216	-7.689	-4.37807	0.201
Asta 51 (12-2)	81	minimi	474.00	-1.48665	-0.5079	-130.29256	-7.689	-286.78627	1.405
Asta 52 (2-222)	82	massimi	0.00	3.43626	0.42295	173.46728	10.98959	459.53579	1.378
Asta 52 (2-222)	82	massimi	315.00	3.43626	0.42295	111.14138	10.98959	229.05409	0.046
Asta 52 (2-222)	82	massimi	630.00	3.43626	0.42295	48.81548	10.98959	99.85805	-1.287
Asta 52 (2-222)	82	minimi	0.00	3.43626	0.42295	-42.03994	-12.09669	-600.60733	1.378
Asta 52 (2-222)	82	minimi	315.00	3.43626	0.42295	-104.36584	-12.09669	-152.45612	0.046
Asta 52 (2-222)	82	minimi	630.00	3.43626	0.42295	-166.69174	-12.09669	-198.24372	-1.287
Asta 53 (7-17)	83	massimi	0.00	-2.3556	0.32527	119.53645	11.45299	165.82671	0.589
Asta 53 (7-17)	83	massimi	237.00	-2.3556	0.32527	97.28605	11.45299	21.77916	-0.182
Asta 53 (7-17)	83	massimi	474.00	-2.3556	0.32527	75.03565	11.45299	200.74882	-0.953
Asta 53 (7-17)	83	minimi	0.00	-2.3556	0.32527	-49.66819	-13.5232	-260.39157	0.589
Asta 53 (7-17)	83	minimi	237.00	-2.3556	0.32527	-71.91859	-13.5232	-3.48969	-0.182
Asta 53 (7-17)	83	minimi	474.00	-2.3556	0.32527	-94.16899	-13.5232	-175.07191	-0.953
Asta 54 (222-7)	84	massimi	0.00	5.05401	-0.27683	163.19549	18.10495	98.13546	-1.298
Asta 54 (222-7)	84	massimi	315.00	5.05401	-0.27683	100.86959	18.10495	224.92787	-0.426
Asta 54 (222-7)	84	massimi	630.00	5.05401	-0.27683	38.54369	18.10495	444.38219	0.446
Asta 54 (222-7)	84	minimi	0.00	5.05401	-0.27683	-49.45357	-16.23762	-191.49391	-1.298
Asta 54 (222-7)	84	minimi	315.00	5.05401	-0.27683	-111.77947	-16.23762	-156.32586	-0.426

Asta 54 (222-7)	84	minimi	630.00	5.05401	-0.27683	-174.10537	-16.23762	-606.47288	0.446
Asta 55 (27-12)	85	massimi	0.00	-2.76227	-0.26414	118.68351	5.88101	209.49604	-0.732
Asta 55 (27-12)	85	massimi	237.00	-2.76227	-0.26414	96.43311	5.88101	9.93612	-0.106
Asta 55 (27-12)	85	massimi	474.00	-2.76227	-0.26414	74.18271	5.88101	211.65349	0.52
Asta 55 (27-12)	85	minimi	0.00	-2.76227	-0.26414	-73.0998	-6.90202	-245.43954	-0.732
Asta 55 (27-12)	85	minimi	237.00	-2.76227	-0.26414	-95.35019	-6.90202	9.42033	-0.106
Asta 55 (27-12)	85	minimi	474.00	-2.76227	-0.26414	-117.60059	-6.90202	-242.46398	0.52
Asta 56 (12-227)	86	massimi	0.00	2.85144	0.41216	203.23864	15.02282	287.99651	1.668
Asta 56 (12-227)	86	massimi	315.00	2.85144	0.41216	95.69134	15.02282	218.19428	0.369
Asta 56 (12-227)	86	massimi	630.00	2.85144	0.41216	-11.85595	15.02282	46.2703	-0.929
Asta 56 (12-227)	86	minimi	0.00	2.85144	0.41216	31.59736	-15.134	-556.72012	1.668
Asta 56 (12-227)	86	minimi	315.00	2.85144	0.41216	-75.94994	-15.134	-85.95847	0.369
Asta 56 (12-227)	86	minimi	630.00	2.85144	0.41216	-183.49724	-15.134	-190.62305	-0.929
Asta 57 (22-17)	87	massimi	0.00	1.9077	-0.68787	229.12359	23.57495	231.20912	-2.106
Asta 57 (22-17)	87	massimi	307.50	1.9077	-0.68787	147.00664	23.57495	283.21132	0.009
Asta 57 (22-17)	87	massimi	615.00	1.9077	-0.68787	64.88968	23.57495	608.94324	2.124
Asta 57 (22-17)	87	minimi	0.00	1.9077	-0.68787	-82.28907	-16.64007	-295.24303	-2.106
Asta 57 (22-17)	87	minimi	307.50	1.9077	-0.68787	-164.40603	-16.64007	-148.23872	0.009
Asta 57 (22-17)	87	minimi	615.00	1.9077	-0.68787	-246.52298	-16.64007	-779.9834	2.124
Asta 58 (17-32)	88	massimi	0.00	-5.01159	0.39496	101.77936	2.67154	157.52985	1.151
Asta 58 (17-32)	88	massimi	237.00	-5.01159	0.39496	79.52896	2.67154	11.98842	0.215
Asta 58 (17-32)	88	massimi	474.00	-5.01159	0.39496	57.27856	2.67154	173.56649	-0.721
Asta 58 (17-32)	88	minimi	0.00	-5.01159	0.39496	-51.21681	-5.05113	-203.40173	1.151
Asta 58 (17-32)	88	minimi	237.00	-5.01159	0.39496	-73.46721	-5.05113	9.23949	0.215
Asta 58 (17-32)	88	minimi	474.00	-5.01159	0.39496	-95.71761	-5.05113	-190.70568	-0.721
Asta 59 (227-17)	89	massimi	0.00	4.55524	-0.04212	167.25737	21.23054	43.09695	-0.861
Asta 59 (227-17)	89	massimi	315.00	4.55524	-0.04212	59.71007	21.23054	176.17517	-0.729
Asta 59 (227-17)	89	massimi	630.00	4.55524	-0.04212	-47.83723	21.23054	194.78922	-0.596
Asta 59 (227-17)	89	minimi	0.00	4.55524	-0.04212	19.504	-19.25039	-181.56621	-0.861
Asta 59 (227-17)	89	minimi	315.00	4.55524	-0.04212	-88.0433	-19.25039	-65.12011	-0.729
Asta 59 (227-17)	89	minimi	630.00	4.55524	-0.04212	-195.5906	-19.25039	-511.75783	-0.596
Asta 60 (37-22)	90	massimi	0.00	-9.37308	0.63101	83.50804	11.09678	128.45455	0.932
Asta 60 (37-22)	90	massimi	237.00	-9.37308	0.63101	53.97714	11.09678	92.22763	-0.563
Asta 60 (37-22)	90	massimi	474.00	-9.37308	0.63101	24.44624	11.09678	185.05102	-2.059
Asta 60 (37-22)	90	minimi	0.00	-9.37308	0.63101	-59.26962	-7.47675	-70.95523	0.932

Asta 60 (37-22)	90	minimi	237.00	-9.37308	0.63101	-88.80052	-7.47675	-47.27148	-0.563
Asta 60 (37-22)	90	minimi	474.00	-9.37308	0.63101	-118.33142	-7.47675	-292.61452	-2.059
Asta 61 (42-27)	91	massimi	0.00	-3.32623	0.06196	118.73721	6.38843	208.79973	-0.196
Asta 61 (42-27)	91	massimi	237.00	-3.32623	0.06196	96.48682	6.38843	8.90188	-0.343
Asta 61 (42-27)	91	massimi	474.00	-3.32623	0.06196	74.23642	6.38843	211.20183	-0.49
Asta 61 (42-27)	91	minimi	0.00	-3.32623	0.06196	-73.25637	-6.45355	-246.14568	-0.196
Asta 61 (42-27)	91	minimi	237.00	-3.32623	0.06196	-95.50676	-6.45355	8.80834	-0.343
Asta 61 (42-27)	91	minimi	474.00	-3.32623	0.06196	-117.75716	-6.45355	-243.90233	-0.49
Asta 62 (27-232)	92	massimi	0.00	3.51716	0.13461	181.79558	15.09248	212.07089	0.59
Asta 62 (27-232)	92	massimi	315.00	3.51716	0.13461	74.24828	15.09248	189.57561	0.166
Asta 62 (27-232)	92	massimi	630.00	3.51716	0.13461	-33.29902	15.09248	9.86642	-0.258
Asta 62 (27-232)	92	minimi	0.00	3.51716	0.13461	46.61535	-15.11377	-458.04033	0.59
Asta 62 (27-232)	92	minimi	315.00	3.51716	0.13461	-60.93195	-15.11377	-54.82464	0.166
Asta 62 (27-232)	92	minimi	630.00	3.51716	0.13461	-168.47925	-15.11377	-171.94302	-0.258
Asta 63 (37-32)	93	massimi	0.00	4.30376	-1.07571	169.8578	23.54553	119.79036	-3.378
Asta 63 (37-32)	93	massimi	307.50	4.30376	-1.07571	64.87115	23.54553	142.45777	-0.07
Asta 63 (37-32)	93	massimi	615.00	4.30376	-1.07571	-40.1155	23.54553	179.20021	3.238
Asta 63 (37-32)	93	minimi	0.00	4.30376	-1.07571	15.55708	-18.14224	-219.82704	-3.378
Asta 63 (37-32)	93	minimi	307.50	4.30376	-1.07571	-89.42957	-18.14224	4.82238	-0.07
Asta 63 (37-32)	93	minimi	615.00	4.30376	-1.07571	-194.41622	-18.14224	-430.27114	3.238
Asta 64 (32-47)	94	massimi	0.00	-6.13201	0.78817	100.9285	5.47408	166.30276	2.063
Asta 64 (32-47)	94	massimi	237.00	-6.13201	0.78817	78.6781	5.47408	9.76927	0.195
Asta 64 (32-47)	94	massimi	474.00	-6.13201	0.78817	56.4277	5.47408	169.44609	-1.673
Asta 64 (32-47)	94	minimi	0.00	-6.13201	0.78817	-54.99073	-5.89314	-203.48813	2.063
Asta 64 (32-47)	94	minimi	237.00	-6.13201	0.78817	-77.24112	-5.89314	9.18443	0.195
Asta 64 (32-47)	94	minimi	474.00	-6.13201	0.78817	-99.49152	-5.89314	-199.82021	-1.673
Asta 65 (232-32)	95	massimi	0.00	6.18257	0.04426	159.14164	20.57412	20.02597	-0.262
Asta 65 (232-32)	95	massimi	315.00	6.18257	0.04426	51.59434	20.57412	159.28887	-0.401
Asta 65 (232-32)	95	massimi	630.00	6.18257	0.04426	-55.95296	20.57412	152.34268	-0.541
Asta 65 (232-32)	95	minimi	0.00	6.18257	0.04426	29.27563	-20.10229	-172.88326	-0.262
Asta 65 (232-32)	95	minimi	315.00	6.18257	0.04426	-78.27167	-20.10229	-57.40577	-0.401
Asta 65 (232-32)	95	minimi	630.00	6.18257	0.04426	-185.81897	-20.10229	-473.26719	-0.541
Asta 66 (52-37)	96	massimi	0.00	-20.12648	0.67198	99.0553	3.3432	213.27821	0.708
Asta 66 (52-37)	96	massimi	237.00	-20.12648	0.67198	69.5244	3.3432	55.47235	-0.885
Asta 66 (52-37)	96	massimi	474.00	-20.12648	0.67198	39.99351	3.3432	182.12797	-2.477

Asta 66 (52-37)	96	minimi	0.00	-20.12648	0.67198	-62.44019	-7.5783	-147.55461	0.708
Asta 66 (52-37)	96	minimi	237.00	-20.12648	0.67198	-91.97109	-7.5783	27.04084	-0.885
Asta 66 (52-37)	96	minimi	474.00	-20.12648	0.67198	-121.50199	-7.5783	-222.80166	-2.477
Asta 67 (72-42)	97	massimi	0.00	-3.70682	0.30576	118.61437	6.83005	209.19664	0.539
Asta 67 (72-42)	97	massimi	237.00	-3.70682	0.30576	96.36397	6.83005	9.72688	-0.185
Asta 67 (72-42)	97	massimi	474.00	-3.70682	0.30576	74.11357	6.83005	211.59738	-0.91
Asta 67 (72-42)	97	minimi	0.00	-3.70682	0.30576	-73.38693	-6.00249	-245.16831	0.539
Asta 67 (72-42)	97	minimi	237.00	-3.70682	0.30576	-95.63733	-6.00249	8.75703	-0.185
Asta 67 (72-42)	97	minimi	474.00	-3.70682	0.30576	-117.88773	-6.00249	-244.12477	-0.91
Asta 68 (42-237)	98	massimi	0.00	2.24608	-0.11257	177.61541	14.99553	192.08985	-0.716
Asta 68 (42-237)	98	massimi	315.00	2.24608	-0.11257	70.06811	14.99553	181.46587	-0.362
Asta 68 (42-237)	98	massimi	630.00	2.24608	-0.11257	-37.47919	14.99553	4.5081	-0.007
Asta 68 (42-237)	98	minimi	0.00	2.24608	-0.11257	50.38622	-15.17215	-437.0437	-0.716
Asta 68 (42-237)	98	minimi	315.00	2.24608	-0.11257	-57.16108	-15.17215	-46.98861	-0.362
Asta 68 (42-237)	98	minimi	630.00	2.24608	-0.11257	-164.70838	-15.17215	-168.1477	-0.007
Asta 69 (52-47)	99	massimi	0.00	0.20892	-1.8055	166.06894	22.17368	135.44231	-5.908
Asta 69 (52-47)	99	massimi	307.50	0.20892	-1.8055	61.08229	22.17368	134.79421	-0.356
Asta 69 (52-47)	99	massimi	615.00	0.20892	-1.8055	-43.90436	22.17368	160.56634	5.196
Asta 69 (52-47)	99	minimi	0.00	0.20892	-1.8055	11.01956	-21.44599	-215.13342	-5.908
Asta 69 (52-47)	99	minimi	307.50	0.20892	-1.8055	-93.96709	-21.44599	7.22787	-0.356
Asta 69 (52-47)	99	minimi	615.00	0.20892	-1.8055	-198.95374	-21.44599	-442.49897	5.196
Asta 70 (47-77)	100	massimi	0.00	-6.40348	1.28492	100.28352	6.21572	167.2761	3.197
Asta 70 (47-77)	100	massimi	237.00	-6.40348	1.28492	78.03312	6.21572	10.66806	0.152
Asta 70 (47-77)	100	massimi	474.00	-6.40348	1.28492	55.78272	6.21572	167.9133	-2.893
Asta 70 (47-77)	100	minimi	0.00	-6.40348	1.28492	-55.048	-4.94761	-201.96434	3.197
Asta 70 (47-77)	100	minimi	237.00	-6.40348	1.28492	-77.29839	-4.94761	9.11845	0.152
Asta 70 (47-77)	100	minimi	474.00	-6.40348	1.28492	-99.54879	-4.94761	-199.11893	-2.893
Asta 71 (237-47)	101	massimi	0.00	4.50446	-0.02592	155.38142	20.175	13.67958	-0.122
Asta 71 (237-47)	101	massimi	315.00	4.50446	-0.02592	47.83412	20.175	151.08666	-0.04
Asta 71 (237-47)	101	massimi	630.00	4.50446	-0.02592	-59.71318	20.175	132.29385	0.041
Asta 71 (237-47)	101	minimi	0.00	4.50446	-0.02592	33.43157	-20.49029	-169.24396	-0.122
Asta 71 (237-47)	101	minimi	315.00	4.50446	-0.02592	-74.11573	-20.49029	-50.66411	-0.04
Asta 71 (237-47)	101	minimi	630.00	4.50446	-0.02592	-181.66303	-20.49029	-453.43236	0.041
Asta 72 (67-52)	102	massimi	0.00	-15.15476	1.77396	49.99994	6.25813	83.15865	0.189
Asta 72 (67-52)	102	massimi	116.50	-15.15476	1.77396	38.82661	6.25813	117.93592	-1.877

Asta 72 (67-52)	102	massimi	233.00	-15.15476	1.77396	27.65329	6.25813	152.61532	-3.944
Asta 72 (67-52)	102	minimi	0.00	-15.15476	1.77396	-73.57114	-3.38708	27.25998	0.189
Asta 72 (67-52)	102	minimi	116.50	-15.15476	1.77396	-84.74447	-3.38708	-47.99467	-1.877
Asta 72 (67-52)	102	minimi	233.00	-15.15476	1.77396	-95.9178	-3.38708	-149.1853	-3.944
Asta 73 (82-67)	103	massimi	0.00	-15.15476	1.77396	71.77853	6.25813	195.6473	4.464
Asta 73 (82-67)	103	massimi	120.50	-15.15476	1.77396	60.21343	6.25813	138.07701	2.327
Asta 73 (82-67)	103	massimi	241.00	-15.15476	1.77396	48.64832	6.25813	83.15865	0.189
Asta 73 (82-67)	103	minimi	0.00	-15.15476	1.77396	-49.08933	-3.38708	-84.16585	4.464
Asta 73 (82-67)	103	minimi	120.50	-15.15476	1.77396	-60.65443	-3.38708	-13.19103	2.327
Asta 73 (82-67)	103	minimi	241.00	-15.15476	1.77396	-72.21953	-3.38708	27.25998	0.189
Asta 74 (102-72)	104	massimi	0.00	-3.96464	0.9582	128.13661	5.42798	228.62372	3.082
Asta 74 (102-72)	104	massimi	237.00	-3.96464	0.9582	105.88621	5.42798	20.15008	0.811
Asta 74 (102-72)	104	massimi	474.00	-3.96464	0.9582	83.63581	5.42798	223.09607	-1.46
Asta 74 (102-72)	104	minimi	0.00	-3.96464	0.9582	-76.86502	-6.55902	-279.016	3.082
Asta 74 (102-72)	104	minimi	237.00	-3.96464	0.9582	-99.11542	-6.55902	-1.76215	0.811
Asta 74 (102-72)	104	minimi	474.00	-3.96464	0.9582	-121.36582	-6.55902	-241.39481	-1.46
Asta 75 (72-242)	105	massimi	0.00	-1.21731	-0.32634	179.9769	15.05056	184.88939	-1.688
Asta 75 (72-242)	105	massimi	315.00	-1.21731	-0.32634	72.4296	15.05056	179.53177	-0.66
Asta 75 (72-242)	105	massimi	630.00	-1.21731	-0.32634	-35.1177	15.05056	9.40063	0.368
Asta 75 (72-242)	105	minimi	0.00	-1.21731	-0.32634	52.05455	-15.21634	-447.05695	-1.688
Asta 75 (72-242)	105	minimi	315.00	-1.21731	-0.32634	-55.49275	-15.21634	-49.57427	-0.66
Asta 75 (72-242)	105	minimi	630.00	-1.21731	-0.32634	-163.04005	-15.21634	-164.86605	0.368
Asta 76 (82-77)	106	massimi	0.00	-6.82105	-1.83339	170.3723	18.64077	145.85964	-5.667
Asta 76 (82-77)	106	massimi	307.50	-6.82105	-1.83339	65.38565	18.64077	135.3754	-0.03
Asta 76 (82-77)	106	massimi	615.00	-6.82105	-1.83339	-39.601	18.64077	173.71119	5.608
Asta 76 (82-77)	106	minimi	0.00	-6.82105	-1.83339	7.21432	-25.2611	-228.45717	-5.667
Asta 76 (82-77)	106	minimi	307.50	-6.82105	-1.83339	-97.77233	-25.2611	5.27199	-0.03
Asta 76 (82-77)	106	minimi	615.00	-6.82105	-1.83339	-202.75898	-25.2611	-455.48677	5.608
Asta 77 (77-107)	107	massimi	0.00	-6.48809	0.76391	100.94578	6.91724	184.4033	2.092
Asta 77 (77-107)	107	massimi	237.00	-6.48809	0.76391	78.69538	6.91724	17.47391	0.282
Asta 77 (77-107)	107	massimi	474.00	-6.48809	0.76391	56.44498	6.91724	177.58446	-1.529
Asta 77 (77-107)	107	minimi	0.00	-6.48809	0.76391	-65.55069	-4.10626	-195.43399	2.092
Asta 77 (77-107)	107	minimi	237.00	-6.48809	0.76391	-87.80109	-4.10626	2.64829	0.282
Asta 77 (77-107)	107	minimi	474.00	-6.48809	0.76391	-110.05149	-4.10626	-231.77625	-1.529
Asta 78 (242-77)	108	massimi	0.00	-1.73217	-0.01131	156.89102	19.85013	14.93618	0.185

Asta 78 (242-77)	108	massimi	315.00	-1.73217	-0.01131	49.34372	19.85013	154.2429	0.22
Asta 78 (242-77)	108	massimi	630.00	-1.73217	-0.01131	-58.20358	19.85013	140.20028	0.256
Asta 78 (242-77)	108	minimi	0.00	-1.73217	-0.01131	34.15503	-21.16352	-170.85627	0.185
Asta 78 (242-77)	108	minimi	315.00	-1.73217	-0.01131	-73.39227	-21.16352	-47.14191	0.22
Asta 78 (242-77)	108	minimi	630.00	-1.73217	-0.01131	-180.93957	-21.16352	-447.62621	0.256
Asta 79 (97-82)	109	massimi	0.00	-13.86187	-0.46357	85.09594	12.45242	195.8938	-1.377
Asta 79 (97-82)	109	massimi	45.50	-13.86187	-0.46357	80.87664	12.45242	233.4423	-1.166
Asta 79 (97-82)	109	massimi	91.00	-13.86187	-0.46357	76.65733	12.45242	269.1547	-0.955
Asta 79 (97-82)	109	minimi	0.00	-13.86187	-0.46357	-101.23168	-0.79584	-48.09325	-1.377
Asta 79 (97-82)	109	minimi	45.50	-13.86187	-0.46357	-105.45098	-0.79584	-94.90329	-1.166
Asta 79 (97-82)	109	minimi	91.00	-13.86187	-0.46357	-109.67028	-0.79584	-143.7168	-0.955
Asta 80 (112-97)	110	massimi	0.00	-13.86187	-0.46357	122.99177	12.45242	272.78925	-3.153
Asta 80 (112-97)	110	massimi	191.50	-13.86187	-0.46357	104.47264	12.45242	133.51951	-2.265
Asta 80 (112-97)	110	massimi	383.00	-13.86187	-0.46357	85.95352	12.45242	195.8938	-1.377
Asta 80 (112-97)	110	minimi	0.00	-13.86187	-0.46357	-65.051	-0.79584	-205.04532	-3.153
Asta 80 (112-97)	110	minimi	191.50	-13.86187	-0.46357	-83.57013	-0.79584	9.71686	-2.265
Asta 80 (112-97)	110	minimi	383.00	-13.86187	-0.46357	-102.08926	-0.79584	-48.09325	-1.377
Asta 81 (102-117)	111	massimi	0.00	-22.67697	-2.54273	258.2136	57.41968	233.47409	-3.538
Asta 81 (102-117)	111	massimi	173.00	-22.67697	-2.54273	215.24338	57.41968	160.6048	0.861
Asta 81 (102-117)	111	massimi	346.00	-22.67697	-2.54273	172.27315	57.41968	171.00709	5.26
Asta 81 (102-117)	111	minimi	0.00	-22.67697	-2.54273	-20.94573	-40.76134	-600.40914	-3.538
Asta 81 (102-117)	111	minimi	173.00	-22.67697	-2.54273	-63.91595	-40.76134	-191.40491	0.861
Asta 81 (102-117)	111	minimi	346.00	-22.67697	-2.54273	-106.88618	-40.76134	-14.34925	5.26
Asta 82 (112-107)	112	massimi	0.00	-10.60551	-3.31068	175.73155	17.50872	168.11099	-11.072
Asta 82 (112-107)	112	massimi	307.50	-10.60551	-3.31068	85.0621	17.50872	139.57425	-0.892
Asta 82 (112-107)	112	massimi	615.00	-10.60551	-3.31068	-5.60735	17.50872	260.15569	9.289
Asta 82 (112-107)	112	minimi	0.00	-10.60551	-3.31068	-11.22605	-35.02832	-263.03248	-11.072
Asta 82 (112-107)	112	minimi	307.50	-10.60551	-3.31068	-101.8955	-35.02832	-7.44988	-0.892
Asta 82 (112-107)	112	minimi	615.00	-10.60551	-3.31068	-192.56495	-35.02832	-458.60259	9.289
Asta 83	113	massimi	0.00	-19.14659	3.25743	117.93165	33.10973	77.9049	0.695

(122-107)									
Asta 83 (122-107)	113	massimi	127.00	-19.14659	3.25743	74.45338	33.10973	104.82098	-3.442
Asta 83 (122-107)	113	massimi	254.00	-19.14659	3.25743	30.9751	33.10973	168.13869	-7.579
Asta 83 (122-107)	113	minimi	0.00	-19.14659	3.25743	-132.46244	-43.85646	-105.34606	0.695
Asta 83 (122-107)	113	minimi	127.00	-19.14659	3.25743	-175.94072	-43.85646	-205.93366	-3.442
Asta 83 (122-107)	113	minimi	254.00	-19.14659	3.25743	-219.41899	-43.85646	-453.3577	-7.579
Asta 84 (142-112)	114	massimi	0.00	-20.36716	7.66534	163.20191	23.83496	87.424	11.127
Asta 84 (142-112)	114	massimi	165.00	-20.36716	7.66534	149.8487	23.83496	55.28929	-1.521
Asta 84 (142-112)	114	massimi	330.00	-20.36716	7.66534	136.49549	23.83496	213.56832	-14.168
Asta 84 (142-112)	114	minimi	0.00	-20.36716	7.66534	-15.96791	-9.84691	-284.64756	11.127
Asta 84 (142-112)	114	minimi	165.00	-20.36716	7.66534	-29.32112	-9.84691	-31.60955	-1.521
Asta 84 (142-112)	114	minimi	330.00	-20.36716	7.66534	-42.67433	-9.84691	-13.05087	-14.168
Asta 85 (117-122)	115	massimi	0.00	-37.75519	-2.05592	134.57612	1.56788	189.53608	-5.154
Asta 85 (117-122)	115	massimi	330.00	-37.75519	-2.05592	50.69781	1.56788	134.7013	1.63
Asta 85 (117-122)	115	massimi	660.00	-37.75519	-2.05592	-33.1805	1.56788	150.04476	8.415
Asta 85 (117-122)	115	minimi	0.00	-37.75519	-2.05592	7.68107	-8.83166	-185.6494	-5.154
Asta 85 (117-122)	115	minimi	330.00	-37.75519	-2.05592	-76.19724	-8.83166	61.83568	1.63
Asta 85 (117-122)	115	minimi	660.00	-37.75519	-2.05592	-160.07555	-8.83166	-314.45433	8.415
Asta 86 (117-127)	116	massimi	0.00	1.22422	2.79237	185.02593	27.40377	236.08836	10.602
Asta 86 (117-127)	116	massimi	330.00	1.22422	2.79237	85.08269	27.40377	139.45162	1.387
Asta 86 (117-127)	116	massimi	660.00	1.22422	2.79237	-14.86055	27.40377	222.06652	-7.828
Asta 86 (117-127)	116	minimi	0.00	1.22422	2.79237	20.56543	1.27487	-339.49922	10.602
Asta 86 (117-127)	116	minimi	330.00	1.22422	2.79237	-79.37781	1.27487	105.77633	1.387
Asta 86 (117-127)	116	minimi	660.00	1.22422	2.79237	-179.32104	1.27487	-287.82514	-7.828

Asta 87 (122-137)	117	massimi	0.00	-8.15789	5.1691	169.01707	3.98123	213.92097	8.179
Asta 87 (122-137)	117	massimi	165.00	-8.15789	5.1691	126.44707	3.98123	69.31404	-0.35
Asta 87 (122-137)	117	massimi	330.00	-8.15789	5.1691	83.87707	3.98123	167.19842	-8.879
Asta 87 (122-137)	117	minimi	0.00	-8.15789	5.1691	-66.61598	-18.50884	-251.27537	8.179
Asta 87 (122-137)	117	minimi	165.00	-8.15789	5.1691	-109.18598	-18.50884	-7.94715	-0.35
Asta 87 (122-137)	117	minimi	330.00	-8.15789	5.1691	-151.75598	-18.50884	-147.59124	-8.879
Asta 88 (127-132)	118	massimi	0.00	-8.95752	-1.80899	94.91855	10.12254	196.95407	-7.617
Asta 88 (127-132)	118	massimi	330.00	-8.95752	-1.80899	62.1963	10.12254	118.72944	-1.647
Asta 88 (127-132)	118	massimi	660.00	-8.95752	-1.80899	29.47405	10.12254	190.45513	4.322
Asta 88 (127-132)	118	minimi	0.00	-8.95752	-1.80899	-10.04753	-12.64831	-225.81377	-7.617
Asta 88 (127-132)	118	minimi	330.00	-8.95752	-1.80899	-42.76978	-12.64831	24.50182	-1.647
Asta 88 (127-132)	118	minimi	660.00	-8.95752	-1.80899	-75.49203	-12.64831	-91.09976	4.322
Asta 89 (137-132)	119	massimi	0.00	-4.44201	2.83694	136.92032	24.6478	136.72621	1.38
Asta 89 (137-132)	119	massimi	165.00	-4.44201	2.83694	89.67807	24.6478	75.96646	-3.301
Asta 89 (137-132)	119	massimi	330.00	-4.44201	2.83694	42.43581	24.6478	184.65103	-7.982
Asta 89 (137-132)	119	minimi	0.00	-4.44201	2.83694	-65.68151	-6.7487	-111.41893	1.38
Asta 89 (137-132)	119	minimi	165.00	-4.44201	2.83694	-112.92376	-6.7487	-11.06485	-3.301
Asta 89 (137-132)	119	minimi	330.00	-4.44201	2.83694	-160.16602	-6.7487	-236.05454	-7.982
Asta 90 (132-157)	120	massimi	0.00	-5.5447	-1.51066	56.40053	26.07367	250.48079	-3.993
Asta 90 (132-157)	120	massimi	244.50	-5.5447	-1.51066	39.45668	26.07367	33.31874	-0.299
Asta 90 (132-157)	120	massimi	489.00	-5.5447	-1.51066	22.51283	26.07367	97.76963	3.395
Asta 90 (132-157)	120	minimi	0.00	-5.5447	-1.51066	-89.51206	-27.87432	-95.47617	-3.993
Asta 90 (132-157)	120	minimi	244.50	-5.5447	-1.51066	-106.45591	-27.87432	-0.69951	-0.299
Asta 90 (132-157)	120	minimi	489.00	-5.5447	-1.51066	-123.39976	-27.87432	-270.39122	3.395

157)									
Asta 91 (137-152)	121	massimi	0.00	-2.1444	-2.6649	101.91323	28.48046	141.81003	-9.851
Asta 91 (137-152)	121	massimi	244.50	-2.1444	-2.6649	57.75183	28.48046	54.41135	-3.336
Asta 91 (137-152)	121	massimi	489.00	-2.1444	-2.6649	13.59043	28.48046	102.82307	3.18
Asta 91 (137-152)	121	minimi	0.00	-2.1444	-2.6649	-13.66779	-34.17123	-180.12414	-9.851
Asta 91 (137-152)	121	minimi	244.50	-2.1444	-2.6649	-57.82919	-34.17123	15.06001	-3.336
Asta 91 (137-152)	121	minimi	489.00	-2.1444	-2.6649	-101.99059	-34.17123	-141.51548	3.18
Asta 92 (142-147)	122	massimi	0.00	-2.68397	-1.22384	123.95744	11.10886	158.73336	-4.964
Asta 92 (142-147)	122	massimi	165.00	-2.68397	-1.22384	112.52294	11.10886	12.39078	-2.945
Asta 92 (142-147)	122	massimi	330.00	-2.68397	-1.22384	101.08844	11.10886	180.52532	-0.926
Asta 92 (142-147)	122	minimi	0.00	-2.68397	-1.22384	-111.32179	-17.27172	-191.35198	-4.964
Asta 92 (142-147)	122	minimi	165.00	-2.68397	-1.22384	-122.7563	-17.27172	-43.02751	-2.945
Asta 92 (142-147)	122	minimi	330.00	-2.68397	-1.22384	-134.1908	-17.27172	-246.91401	-0.926
Asta 93 (152-142)	123	massimi	0.00	4.50416	-0.91587	89.58086	32.58484	113.41687	2.989
Asta 93 (152-142)	123	massimi	190.00	4.50416	-0.91587	55.37661	32.58484	44.93976	4.729
Asta 93 (152-142)	123	massimi	380.00	4.50416	-0.91587	21.17236	32.58484	117.12796	6.469
Asta 93 (152-142)	123	minimi	0.00	4.50416	-0.91587	-49.23126	-52.74777	-93.31531	2.989
Asta 93 (152-142)	123	minimi	190.00	4.50416	-0.91587	-83.43551	-52.74777	-13.16205	4.729
Asta 93 (152-142)	123	minimi	380.00	4.50416	-0.91587	-117.63976	-52.74777	-203.65025	6.469
Asta 94 (157-147)	124	massimi	0.00	1.08676	0.77551	88.66111	42.55831	57.95563	3.705
Asta 94 (157-147)	124	massimi	190.00	1.08676	0.77551	75.49411	42.55831	58.34839	2.232
Asta 94 (157-147)	124	massimi	380.00	1.08676	0.77551	62.32711	42.55831	163.76259	0.758
Asta 94 (157-147)	124	minimi	0.00	1.08676	0.77551	-31.83636	-60.08864	-182.72538	3.705
Asta 94 (157-147)	124	minimi	190.00	1.08676	0.77551	-45.00336	-60.08864	-100.16842	2.232
Asta 94	124	minimi	380.00	1.08676	0.77551	-58.17036	-60.08864	-172.6675	0.758

(157-147)									
Asta 95 (2-1)	125	massimi	0.00	-93.23558	262.66873	164.29573	13.39689	156.51468	278.023
Asta 95 (2-1)	125	massimi	130.00	-99.08558	262.66873	164.29573	13.39689	37.36673	150.545
Asta 95 (2-1)	125	massimi	260.00	-104.93558	262.66873	164.29573	13.39689	243.02503	381.085
Asta 95 (2-1)	125	minimi	0.00	-606.45704	-223.60908	-143.83063	-12.86847	-185.40705	-211.558
Asta 95 (2-1)	125	minimi	130.00	-612.30704	-223.60908	-143.83063	-12.86847	-39.65447	-134.857
Asta 95 (2-1)	125	minimi	260.00	-618.15704	-223.60908	-143.83063	-12.86847	-218.70814	-416.175
Asta 96 (7-6)	126	massimi	0.00	-89.94766	221.3436	144.522	14.57975	118.2635	211.296
Asta 96 (7-6)	126	massimi	130.00	-95.79766	221.3436	144.522	14.57975	29.3848	136.545
Asta 96 (7-6)	126	massimi	260.00	-101.64766	221.3436	144.522	14.57975	210.83083	420.352
Asta 96 (7-6)	126	minimi	0.00	-651.33941	-264.5576	-110.33584	-12.22361	-166.2631	-278.636
Asta 96 (7-6)	126	minimi	130.00	-657.18941	-264.5576	-110.33584	-12.22361	-32.94238	-147.706
Asta 96 (7-6)	126	minimi	260.00	-663.03941	-264.5576	-110.33584	-12.22361	-169.9464	-375.335
Asta 97 (12-11)	127	massimi	0.00	-250.13548	204.22075	224.9175	13.68482	261.41021	224.837
Asta 97 (12-11)	127	massimi	130.00	-255.98548	204.22075	224.9175	13.68482	23.61637	133.594
Asta 97 (12-11)	127	massimi	260.00	-261.83548	204.22075	224.9175	13.68482	311.35939	279.715
Asta 97 (12-11)	127	minimi	0.00	-651.69589	-145.46547	-216.44512	-12.03539	-273.69324	-109.883
Asta 97 (12-11)	127	minimi	130.00	-657.54589	-145.46547	-216.44512	-12.03539	-24.8853	-95.022
Asta 97 (12-11)	127	minimi	260.00	-663.39589	-145.46547	-216.44512	-12.03539	-301.61421	-317.525
Asta 98 (17-16)	128	massimi	0.00	-507.8028	310.09481	197.95781	14.68885	203.8955	405.201
Asta 98 (17-16)	128	massimi	130.00	-513.6528	310.09481	197.95781	14.68885	16.07201	48.64
Asta 98 (17-16)	128	massimi	260.00	-519.5028	310.09481	197.95781	14.68885	269.37841	444.847
Asta 98 (17-16)	128	minimi	0.00	-651.14748	-340.99187	-168.95563	-11.19249	-245.51992	-443.397
Asta 98 (17-16)	128	minimi	130.00	-656.99748	-340.99187	-168.95563	-11.19249	-19.9936	-46.67
Asta 98 (17-16)	128	minimi	260.00	-662.84748	-340.99187	-168.95563	-11.19249	-235.59716	-402.711
Asta 99 (22-21)	129	massimi	0.00	-0.98001	98.76307	124.44846	4.29427	118.9046	150.253
Asta 99 (22-21)	129	massimi	130.00	-3.90501	98.76307	124.44846	4.29427	9.96238	21.884
Asta 99 (22-21)	129	massimi	260.00	-6.83001	98.76307	124.44846	4.29427	141.98252	127.558
Asta 99 (22-21)	129	minimi	0.00	-359.74545	-118.95818	-83.81173	-3.30663	-181.58664	-181.738
Asta 99 (22-21)	129	minimi	130.00	-362.67045	-118.95818	-83.81173	-3.30663	-19.81668	-27.116
Asta 99 (22-21)	129	minimi	260.00	-365.59545	-118.95818	-83.81173	-3.30663	-99.00907	-106.535
Asta 100 (27-26)	130	massimi	0.00	-312.06619	174.38364	221.27452	13.159	267.89009	204.625
Asta 100 (27-26)	130	massimi	130.00	-317.91619	174.38364	221.27452	13.159	25.55001	114.397
Asta 100 (27-26)	130	massimi	260.00	-323.76619	174.38364	221.27452	13.159	308.35476	230.808
Asta 100 (27-26)	130	minimi	0.00	-611.87453	-121.80141	-221.95614	-12.15226	-267.24703	-95.607

Asta 100 (27-26)	130	minimi	130.00	-617.72453	-121.80141	-221.95614	-12.15226	-25.79306	-73.735
Asta 100 (27-26)	130	minimi	260.00	-623.57453	-121.80141	-221.95614	-12.15226	-309.48391	-258.503
Asta 101 (32-31)	131	massimi	0.00	-582.37254	228.07448	195.36182	14.33066	222.81558	284.067
Asta 101 (32-31)	131	massimi	130.00	-588.22254	228.07448	195.36182	14.33066	19.75261	79.613
Asta 101 (32-31)	131	massimi	260.00	-594.07254	228.07448	195.36182	14.33066	269.6309	350.42
Asta 101 (32-31)	131	minimi	0.00	-723.97589	-240.10011	-184.36663	-12.07	-238.54598	-277.103
Asta 101 (32-31)	131	minimi	130.00	-729.82589	-240.10011	-184.36663	-12.07	-21.18926	-57.015
Asta 101 (32-31)	131	minimi	260.00	-735.67589	-240.10011	-184.36663	-12.07	-256.77381	-312.189
Asta 102 (37-36)	132	massimi	0.00	-72.65578	66.5141	165.16579	4.2668	169.55034	96.359
Asta 102 (37-36)	132	massimi	130.00	-75.58078	66.5141	165.16579	4.2668	7.39959	9.894
Asta 102 (37-36)	132	massimi	260.00	-78.50578	66.5141	165.16579	4.2668	201.14117	99.643
Asta 102 (37-36)	132	minimi	0.00	-392.63301	-91.89419	-124.7316	-3.68759	-228.28991	-139.283
Asta 102 (37-36)	132	minimi	130.00	-395.55801	-91.89419	-124.7316	-3.68759	-13.57472	-19.824
Asta 102 (37-36)	132	minimi	260.00	-398.48301	-91.89419	-124.7316	-3.68759	-154.75186	-76.579
Asta 103 (42-41)	133	massimi	0.00	-317.69468	172.26863	220.96283	12.28654	268.25071	207.332
Asta 103 (42-41)	133	massimi	130.00	-323.54468	172.26863	220.96283	12.28654	25.46149	112.761
Asta 103 (42-41)	133	massimi	260.00	-329.39468	172.26863	220.96283	12.28654	307.84252	221.128
Asta 103 (42-41)	133	minimi	0.00	-605.76811	-118.4775	-222.19063	-13.19102	-266.94823	-95.134
Asta 103 (42-41)	133	minimi	130.00	-611.61811	-118.4775	-222.19063	-13.19102	-25.75514	-70.492
Asta 103 (42-41)	133	minimi	260.00	-617.46811	-118.4775	-222.19063	-13.19102	-309.73231	-248.787
Asta 104 (47-46)	134	massimi	0.00	-577.16304	231.32632	193.54615	14.09516	230.1579	296.372
Asta 104 (47-46)	134	massimi	130.00	-583.01304	231.32632	193.54615	14.09516	20.00916	81.054
Asta 104 (47-46)	134	massimi	260.00	-588.86304	231.32632	193.54615	14.09516	267.29752	336.112
Asta 104 (47-46)	134	minimi	0.00	-750.66573	-231.77437	-189.36072	-12.89489	-236.39334	-269.349
Asta 104 (47-46)	134	minimi	130.00	-756.51573	-231.77437	-189.36072	-12.89489	-20.80355	-53.448
Asta 104 (47-46)	134	minimi	260.00	-762.36573	-231.77437	-189.36072	-12.89489	-262.65084	-307.924
Asta 105 (52-51)	135	massimi	0.00	-87.0849	65.02094	149.53145	3.37681	182.70386	94.883
Asta 105 (52-51)	135	massimi	130.00	-90.0099	65.02094	149.53145	3.37681	12.36678	10.398
Asta 105 (52-51)	135	massimi	260.00	-92.9349	65.02094	149.53145	3.37681	176.92903	108.995
Asta 105 (52-51)	135	minimi	0.00	-444.96885	-94.57344	-131.0322	-3.67008	-211.85358	-136.90
Asta 105 (52-51)	135	minimi	130.00	-447.89385	-94.57344	-131.0322	-3.67008	-17.46748	-13.996
Asta 105 (52-51)	135	minimi	260.00	-450.81885	-94.57344	-131.0322	-3.67008	-157.9807	-74.175
Asta 106 (57-56)	136	massimi	0.00	-49.15242	12.94073	34.02838	1.93531	21.59511	11.02
Asta 106 (57-56)	136	massimi	130.00	-51.18367	12.94073	34.02838	1.93531	24.57492	28.126
Asta 106 (57-56)	136	massimi	260.00	-53.21492	12.94073	34.02838	1.93531	66.46669	63.872

Asta 106 (57-56)	136	minimi	0.00	-85.6354	-28.00937	-33.88523	-2.36781	-24.05785	-15.779
Asta 106 (57-56)	136	minimi	130.00	-87.66665	-28.00937	-33.88523	-2.36781	-26.85157	-13.296
Asta 106 (57-56)	136	minimi	260.00	-89.69789	-28.00937	-33.88523	-2.36781	-68.55725	-29.453
Asta 107 (62-61)	137	massimi	0.00	-7.86108	17.58682	37.57765	2.12128	23.34685	7.182
Asta 107 (62-61)	137	massimi	130.00	-9.89233	17.58682	37.57765	2.12128	29.29455	19.407
Asta 107 (62-61)	137	massimi	260.00	-11.92358	17.58682	37.57765	2.12128	77.50901	51.582
Asta 107 (62-61)	137	minimi	0.00	-48.17435	-25.09699	-37.02786	-2.25648	-25.00815	-15.244
Asta 107 (62-61)	137	minimi	130.00	-50.2056	-25.09699	-37.02786	-2.25648	-30.24113	-17.706
Asta 107 (62-61)	137	minimi	260.00	-52.23685	-25.09699	-37.02786	-2.25648	-77.74087	-40.118
Asta 108 (72-71)	138	massimi	0.00	-295.25484	183.93191	219.72495	11.7512	273.02947	227.513
Asta 108 (72-71)	138	massimi	130.00	-301.10484	183.93191	219.72495	11.7512	24.77833	116.574
Asta 108 (72-71)	138	massimi	260.00	-306.95484	183.93191	219.72495	11.7512	305.86819	221.485
Asta 108 (72-71)	138	minimi	0.00	-616.73059	-120.08965	-225.09001	-13.48401	-265.68531	-99.91
Asta 108 (72-71)	138	minimi	130.00	-622.58059	-120.08965	-225.09001	-13.48401	-24.40874	-71.966
Asta 108 (72-71)	138	minimi	260.00	-628.43059	-120.08965	-225.09001	-13.48401	-312.47319	-259.873
Asta 109 (77-76)	139	massimi	0.00	-555.72402	244.13703	188.46712	13.39747	238.7293	314.965
Asta 109 (77-76)	139	massimi	130.00	-561.57402	244.13703	188.46712	13.39747	19.71365	80.087
Asta 109 (77-76)	139	massimi	260.00	-567.42402	244.13703	188.46712	13.39747	260.21857	338.288
Asta 109 (77-76)	139	minimi	0.00	-740.74557	-237.76728	-194.55743	-13.11491	-230.02024	-283.165
Asta 109 (77-76)	139	minimi	130.00	-746.59557	-237.76728	-194.55743	-13.11491	-18.922	-56.567
Asta 109 (77-76)	139	minimi	260.00	-752.44557	-237.76728	-194.55743	-13.11491	-267.34432	-323.049
Asta 110 (82-81)	140	massimi	0.00	-85.9319	67.71666	127.10756	3.99964	193.32093	99.616
Asta 110 (82-81)	140	massimi	130.00	-88.8569	67.71666	127.10756	3.99964	21.67363	11.651
Asta 110 (82-81)	140	massimi	260.00	-91.7819	67.71666	127.10756	3.99964	145.3351	137.192
Asta 110 (82-81)	140	minimi	0.00	-442.23518	-111.67847	-132.03906	-4.08176	-185.14555	-153.184
Asta 110 (82-81)	140	minimi	130.00	-445.16018	-111.67847	-132.03906	-4.08176	-19.90919	-8.069
Asta 110 (82-81)	140	minimi	260.00	-448.08518	-111.67847	-132.03906	-4.08176	-149.98161	-76.46
Asta 111 (87-86)	141	massimi	0.00	-43.89916	13.39871	35.02663	1.95545	24.21274	12.47
Asta 111 (87-86)	141	massimi	130.00	-45.93041	13.39871	35.02663	1.95545	28.09996	28.417
Asta 111 (87-86)	141	massimi	260.00	-47.96166	13.39871	35.02663	1.95545	71.32528	63.54
Asta 111 (87-86)	141	minimi	0.00	-86.82745	-27.56148	-32.93817	-2.33043	-21.72596	-16.462
Asta 111 (87-86)	141	minimi	130.00	-88.8587	-27.56148	-32.93817	-2.33043	-22.89817	-13.997
Asta 111 (87-86)	141	minimi	260.00	-90.88995	-27.56148	-32.93817	-2.33043	-63.40849	-30.708
Asta 112 (92-91)	142	massimi	0.00	-1.2111	17.82273	37.22067	2.1133	25.0693	7.693
Asta 112 (92-91)	142	massimi	130.00	-3.24235	17.82273	37.22067	2.1133	30.65462	19.755

Asta 112 (92-91)	142	massimi	260.00	-5.2736	17.82273	37.22067	2.1133	78.40059	52.211
Asta 112 (92-91)	142	minimi	0.00	-52.41994	-25.35401	-36.94046	-2.24428	-23.29843	-15.714
Asta 112 (92-91)	142	minimi	130.00	-54.45119	-25.35401	-36.94046	-2.24428	-28.51948	-17.986
Asta 112 (92-91)	142	minimi	260.00	-56.48244	-25.35401	-36.94046	-2.24428	-75.90118	-40.651
Asta 113 (102-101)	143	massimi	0.00	-119.35051	238.93663	157.80702	14.73855	198.14247	316.306
Asta 113 (102-101)	143	massimi	130.00	-125.20051	238.93663	157.80702	14.73855	33.89141	120.799
Asta 113 (102-101)	143	massimi	260.00	-131.05051	238.93663	157.80702	14.73855	230.16194	228.488
Asta 113 (102-101)	143	minimi	0.00	-682.66729	-124.28176	-171.45334	-12.081	-181.41801	-101.709
Asta 113 (102-101)	143	minimi	130.00	-688.51729	-124.28176	-171.45334	-12.081	-34.90717	-55.252
Asta 113 (102-101)	143	minimi	260.00	-694.36729	-124.28176	-171.45334	-12.081	-248.91793	-311.993
Asta 114 (107-106)	144	massimi	0.00	-337.924	233.40145	134.05574	12.23626	183.76893	297.95
Asta 114 (107-106)	144	massimi	130.00	-343.774	233.40145	134.05574	12.23626	26.03624	65.128
Asta 114 (107-106)	144	massimi	260.00	-349.624	233.40145	134.05574	12.23626	192.95668	353.399
Asta 114 (107-106)	144	minimi	0.00	-756.25592	-259.49792	-153.72675	-13.72225	-156.20048	-327.567
Asta 114 (107-106)	144	minimi	130.00	-762.10592	-259.49792	-153.72675	-13.72225	-24.0401	-60.819
Asta 114 (107-106)	144	minimi	260.00	-767.95592	-259.49792	-153.72675	-13.72225	-216.53284	-315.164
Asta 115 (112-111)	145	massimi	0.00	-42.27385	73.84492	116.64561	3.15979	227.16813	105.644
Asta 115 (112-111)	145	massimi	130.00	-45.19885	73.84492	116.64561	3.15979	18.68611	9.652
Asta 115 (112-111)	145	massimi	260.00	-48.12385	73.84492	116.64561	3.15979	142.53144	123.541
Asta 115 (112-111)	145	minimi	0.00	-258.32184	-108.86432	-160.42609	-5.01046	-160.74817	-159.508
Asta 115 (112-111)	145	minimi	130.00	-261.24684	-108.86432	-160.42609	-5.01046	-9.18077	-17.991
Asta 115 (112-111)	145	minimi	260.00	-264.17184	-108.86432	-160.42609	-5.01046	-189.94072	-86.354
Asta 116 (117-116)	146	massimi	0.00	-122.41277	151.72106	123.10357	4.39326	139.14748	211.597
Asta 116 (117-116)	146	massimi	130.00	-125.33777	151.72106	123.10357	4.39326	11.48106	14.38
Asta 116 (117-116)	146	massimi	260.00	-128.26277	151.72106	123.10357	4.39326	139.60613	112.855

Asta 116 (117-116)	146	minimi	0.00	-324.24144	-91.6252	-98.22922	-4.45049	-180.47072	-125.373
Asta 116 (117-116)	146	minimi	130.00	-327.16644	-91.6252	-98.22922	-4.45049	-20.46765	-6.28
Asta 116 (117-116)	146	minimi	260.00	-330.09144	-91.6252	-98.22922	-4.45049	-116.25606	-182.88
Asta 117 (122-121)	147	massimi	0.00	-66.48092	73.22781	107.14529	2.69524	126.72535	98.028
Asta 117 (122-121)	147	massimi	130.00	-69.40592	73.22781	107.14529	2.69524	5.86864	2.849
Asta 117 (122-121)	147	massimi	260.00	-72.33092	73.22781	107.14529	2.69524	130.42344	157.347
Asta 117 (122-121)	147	minimi	0.00	-338.90022	-128.27283	-93.03125	-5.63241	-148.16431	-176.164
Asta 117 (122-121)	147	minimi	130.00	-341.82522	-128.27283	-93.03125	-5.63241	-8.95936	-9.427
Asta 117 (122-121)	147	minimi	260.00	-344.75022	-128.27283	-93.03125	-5.63241	-115.16592	-92.366
Asta 118 (127-126)	148	massimi	0.00	-93.8093	114.47714	100.36282	3.15614	180.94828	168.332
Asta 118 (127-126)	148	massimi	130.00	-96.7343	114.47714	100.36282	3.15614	23.89074	19.518
Asta 118 (127-126)	148	massimi	260.00	-99.6593	114.47714	100.36282	3.15614	113.90264	100.184
Asta 118 (127-126)	148	minimi	0.00	-335.23381	-89.10752	-120.81657	-4.78801	-147.042	-131.498
Asta 118 (127-126)	148	minimi	130.00	-338.15881	-89.10752	-120.81657	-4.78801	-16.57434	-15.664
Asta 118 (127-126)	148	minimi	260.00	-341.08381	-89.10752	-120.81657	-4.78801	-133.17612	-129.311
Asta 119 (132-131)	149	massimi	0.00	-70.30816	125.37977	85.6385	4.40902	148.4122	174.455
Asta 119 (132-131)	149	massimi	130.00	-73.23316	125.37977	85.6385	4.40902	10.37108	11.468
Asta 119 (132-131)	149	massimi	260.00	-76.15816	125.37977	85.6385	4.40902	106.9743	167.959
Asta 119 (132-131)	149	minimi	0.00	-223.62694	-142.58705	-106.2522	-3.847	-115.69256	-202.768
Asta 119 (132-131)	149	minimi	130.00	-226.55194	-142.58705	-106.2522	-3.847	-4.44925	-17.411
Asta 119 (132-131)	149	minimi	260.00	-229.47694	-142.58705	-106.2522	-3.847	-127.85028	-151.533
Asta 120 (137-136)	150	massimi	0.00	-134.96833	90.44982	128.82496	3.07421	179.82674	126.765
Asta 120 (137-136)	150	massimi	130.00	-137.89333	90.44982	128.82496	3.07421	5.83739	9.192
Asta 120 (137-136)	150	massimi	260.00	-140.81833	90.44982	128.82496	3.07421	162.13093	104.184

136)									
Asta 120 (137-136)	150	minimi	0.00	-276.17354	-87.6955	-133.85545	-5.53701	-172.81429	-123.827
Asta 120 (137-136)	150	minimi	130.00	-279.09854	-87.6955	-133.85545	-5.53701	-5.36457	-9.835
Asta 120 (137-136)	150	minimi	260.00	-282.02354	-87.6955	-133.85545	-5.53701	-168.19775	-108.407
Asta 121 (142-141)	151	massimi	0.00	-24.50243	85.81648	117.74956	2.57474	255.64799	112.241
Asta 121 (142-141)	151	massimi	130.00	-27.42743	85.81648	117.74956	2.57474	0.52475	0.822
Asta 121 (142-141)	151	massimi	260.00	-30.35243	85.81648	117.74956	2.57474	149.49067	135.609
Asta 121 (142-141)	151	minimi	0.00	-377.6891	-110.85581	-197.12524	-5.9671	-156.66516	-152.628
Asta 121 (142-141)	151	minimi	130.00	-380.6141	-110.85581	-197.12524	-5.9671	-4.7303	-8.658
Asta 121 (142-141)	151	minimi	260.00	-383.5391	-110.85581	-197.12524	-5.9671	-256.88461	-110.893
Asta 122 (147-146)	152	massimi	0.00	74.84088	65.13113	60.8021	2.24688	104.41981	83.811
Asta 122 (147-146)	152	massimi	130.00	72.80963	65.13113	60.8021	2.24688	3.51172	-0.61
Asta 122 (147-146)	152	massimi	260.00	70.77838	65.13113	60.8021	2.24688	80.33237	84.216
Asta 122 (147-146)	152	minimi	0.00	-164.8219	-66.81161	-78.21067	-2.92557	-77.7573	-89.499
Asta 122 (147-146)	152	minimi	130.00	-166.85315	-66.81161	-78.21067	-2.92557	0.51965	-2.894
Asta 122 (147-146)	152	minimi	260.00	-168.8844	-66.81161	-78.21067	-2.92557	-98.93214	-85.534
Asta 123 (152-151)	153	massimi	0.00	-120.24199	103.95571	38.56337	4.89336	59.75654	140.00
Asta 123 (152-151)	153	massimi	130.00	-123.16699	103.95571	38.56337	4.89336	8.36902	4.863
Asta 123 (152-151)	153	massimi	260.00	-126.092	103.95571	38.56337	4.89336	51.55255	161.416
Asta 123 (152-151)	153	minimi	0.00	-165.93024	-130.56644	-44.65996	-2.94628	-49.05649	-178.058
Asta 123 (152-151)	153	minimi	130.00	-168.85525	-130.56644	-44.65996	-2.94628	-5.59453	-8.326
Asta 123 (152-151)	153	minimi	260.00	-171.78025	-130.56644	-44.65996	-2.94628	-56.70362	-130.285
Asta 124 (157-156)	154	massimi	0.00	-60.78463	64.9175	39.29723	2.52009	55.51704	86.40
Asta 124 (157-156)	154	massimi	130.00	-62.81588	64.9175	39.29723	2.52009	6.45344	2.297
Asta 124	154	massimi	260.00	-64.84713	64.9175	39.29723	2.52009	57.05286	118.229

(157-156)									
Asta 124 (157-156)	154	minimi	0.00	-250.61505	-90.08568	-45.53642	-2.29877	-45.18375	-115.995
Asta 124 (157-156)	154	minimi	130.00	-252.6463	-90.08568	-45.53642	-2.29877	-4.2311	0.826
Asta 124 (157-156)	154	minimi	260.00	-254.67755	-90.08568	-45.53642	-2.29877	-62.94146	-82.387
Asta 125 (222-221)	155	massimi	0.00	-97.61412	201.96192	24.24594	4.20783	17.85115	290.91
Asta 125 (222-221)	155	massimi	130.00	-100.53912	201.96192	24.24594	4.20783	11.93328	28.429
Asta 125 (222-221)	155	massimi	260.00	-103.46412	201.96192	24.24594	4.20783	42.8465	237.593
Asta 125 (222-221)	155	minimi	0.00	-134.00407	-205.19743	-22.84637	-4.18572	-20.82557	-295.937
Asta 125 (222-221)	155	minimi	130.00	-136.92907	-205.19743	-22.84637	-4.18572	-13.08826	-29.25
Asta 125 (222-221)	155	minimi	260.00	-139.85407	-205.19743	-22.84637	-4.18572	-42.18203	-234.208
Asta 126 (227-226)	156	massimi	0.00	-177.0693	159.40369	31.11961	4.17885	29.68374	227.825
Asta 126 (227-226)	156	massimi	130.00	-179.9943	159.40369	31.11961	4.17885	9.07479	20.648
Asta 126 (227-226)	156	massimi	260.00	-182.9193	159.40369	31.11961	4.17885	49.27511	189.611
Asta 126 (227-226)	156	minimi	0.00	-205.04526	-162.81129	-30.21104	-4.3142	-31.77508	-233.709
Asta 126 (227-226)	156	minimi	130.00	-207.97026	-162.81129	-30.21104	-4.3142	-9.98499	-22.101
Asta 126 (227-226)	156	minimi	260.00	-210.89526	-162.81129	-30.21104	-4.3142	-49.00416	-186.635
Asta 127 (232-231)	157	massimi	0.00	-187.44789	127.85093	30.69036	4.28931	30.1004	182.745
Asta 127 (232-231)	157	massimi	130.00	-190.37289	127.85093	30.69036	4.28931	9.71819	16.588
Asta 127 (232-231)	157	massimi	260.00	-193.29789	127.85093	30.69036	4.28931	49.3468	154.32
Asta 127 (232-231)	157	minimi	0.00	-202.74765	-133.18175	-30.50967	-4.28241	-30.59351	-191.964
Asta 127 (232-231)	157	minimi	130.00	-205.67265	-133.18175	-30.50967	-4.28241	-9.97641	-18.877
Asta 127 (232-231)	157	minimi	260.00	-208.59765	-133.18175	-30.50967	-4.28241	-49.37012	-149.679
Asta 128 (237-236)	158	massimi	0.00	-186.52889	121.8328	30.50664	4.38111	30.47691	173.743
Asta 128 (237-236)	158	massimi	130.00	-189.45389	121.8328	30.50664	4.38111	9.73569	15.405

Asta 128 (237-236)	158	massimi	260.00	-192.37889	121.8328	30.50664	4.38111	49.12422	146.701
Asta 128 (237-236)	158	minimi	0.00	-204.47168	-126.34957	-30.67994	-4.15136	-30.33824	-181.818
Asta 128 (237-236)	158	minimi	130.00	-207.39668	-126.34957	-30.67994	-4.15136	-9.82231	-17.609
Asta 128 (237-236)	158	minimi	260.00	-210.32168	-126.34957	-30.67994	-4.15136	-49.43613	-143.033
Asta 129 (242-241)	159	massimi	0.00	-186.00651	126.2038	30.5228	4.46139	31.42364	180.23
Asta 129 (242-241)	159	massimi	130.00	-188.93151	126.2038	30.5228	4.46139	9.80889	16.215
Asta 129 (242-241)	159	massimi	260.00	-191.85651	126.2038	30.5228	4.46139	49.22413	145.688
Asta 129 (242-241)	159	minimi	0.00	-203.1973	-125.17408	-31.15287	-4.09544	-30.27604	-179.776
Asta 129 (242-241)	159	minimi	130.00	-206.1223	-125.17408	-31.15287	-4.09544	-9.48037	-17.099
Asta 129 (242-241)	159	minimi	260.00	-209.0473	-125.17408	-31.15287	-4.09544	-49.71469	-147.91
Asta 130 (68-53)	160	massimi	0.00	12.07065	4.07028	55.54776	22.45268	35.43373	5.967
Asta 130 (68-53)	160	massimi	116.50	12.07065	4.07028	40.9092	22.45268	78.87364	1.225
Asta 130 (68-53)	160	massimi	233.00	12.07065	4.07028	26.27063	22.45268	113.64277	-3.516
Asta 130 (68-53)	160	minimi	0.00	12.07065	4.07028	-69.42826	-13.099	1.91488	5.967
Asta 130 (68-53)	160	minimi	116.50	12.07065	4.07028	-84.06682	-13.099	-74.74974	1.225
Asta 130 (68-53)	160	minimi	233.00	12.07065	4.07028	-98.70539	-13.099	-176.85143	-3.516
Asta 131 (63-58)	161	massimi	0.00	-3.43755	0.19465	31.17804	1.4161	10.58782	0.585
Asta 131 (63-58)	161	massimi	204.50	-3.43755	0.19465	7.23121	1.05142	9.77723	0.187
Asta 131 (63-58)	161	massimi	409.00	-3.43755	0.19465	-15.70182	0.86484	-2.5105	-0.211
Asta 131 (63-58)	161	minimi	0.00	-3.43755	0.19465	11.65906	-0.67777	-32.77798	0.585
Asta 131 (63-58)	161	minimi	204.50	-3.43755	0.19465	-12.28777	-1.04246	6.31768	0.187
Asta 131 (63-58)	161	minimi	409.00	-3.43755	0.19465	-35.2208	-1.22904	-38.97884	-0.211
Asta 132 (58-68)	162	massimi	0.00	-9.89592	0.84672	49.0104	6.46942	-10.76425	1.824
Asta 132 (58-68)	162	massimi	205.50	-9.89592	0.84672	24.96411	6.11652	11.87207	0.084
Asta 132 (58-68)	162	massimi	411.00	-9.89592	0.84672	1.70503	5.9068	38.98087	-1.656
Asta 132 (58-68)	162	minimi	0.00	-9.89592	0.84672	21.01646	-5.30879	-64.16496	1.824
Asta 132 (58-68)	162	minimi	205.50	-9.89592	0.84672	-3.02983	-5.66169	7.41918	0.084
Asta 132 (58-68)	162	minimi	411.00	-9.89592	0.84672	-26.28891	-5.87141	-22.68168	-1.656
Asta 133 (88-58)	163	massimi	0.00	0.58049	-1.07595	21.5677	0.40141	31.33577	-1.753
Asta 133 (88-58)	163	massimi	166.00	0.58049	-1.07595	18.2062	0.40141	1.84926	0.033

Asta 133 (88-58)	163	massimi	332.00	0.58049	-1.07595	14.8447	0.40141	28.97001	1.819
Asta 133 (88-58)	163	minimi	0.00	0.58049	-1.07595	-16.08503	-0.75286	-31.47457	-1.753
Asta 133 (88-58)	163	minimi	166.00	0.58049	-1.07595	-19.44653	-0.75286	1.5331	0.033
Asta 133 (88-58)	163	minimi	332.00	0.58049	-1.07595	-22.80803	-0.75286	-33.22669	1.819
Asta 134 (93-63)	164	massimi	0.00	-0.08024	-0.31753	26.09676	0.88777	37.53299	-0.537
Asta 134 (93-63)	164	massimi	166.00	-0.08024	-0.31753	22.73526	0.88777	1.59269	-0.01
Asta 134 (93-63)	164	massimi	332.00	-0.08024	-0.31753	19.37376	0.88777	36.50793	0.517
Asta 134 (93-63)	164	minimi	0.00	-0.08024	-0.31753	-19.97408	-0.89645	-38.97314	-0.537
Asta 134 (93-63)	164	minimi	166.00	-0.08024	-0.31753	-23.33559	-0.89645	1.55072	-0.01
Asta 134 (93-63)	164	minimi	332.00	-0.08024	-0.31753	-26.69709	-0.89645	-39.94116	0.517
Asta 135 (83-68)	165	massimi	0.00	11.22393	-5.82564	84.6608	11.2414	108.68975	-6.417
Asta 135 (83-68)	165	massimi	120.50	11.22393	-5.82564	74.75514	11.2414	61.52903	0.603
Asta 135 (83-68)	165	massimi	241.00	11.22393	-5.82564	64.84948	11.2414	38.59765	7.623
Asta 135 (83-68)	165	minimi	0.00	11.22393	-5.82564	-34.33479	-18.1869	-144.84615	-6.417
Asta 135 (83-68)	165	minimi	120.50	11.22393	-5.82564	-44.24045	-18.1869	-48.9789	0.603
Asta 135 (83-68)	165	minimi	241.00	11.22393	-5.82564	-54.14611	-18.1869	-1.21364	7.623
Asta 136 (98-83)	166	massimi	0.00	15.21791	10.20132	22.9026	31.47733	72.71396	2.056
Asta 136 (98-83)	166	massimi	45.50	15.21791	10.20132	17.24774	31.47733	77.13696	-2.585
Asta 136 (98-83)	166	massimi	91.00	15.21791	10.20132	11.59288	31.47733	79.96499	-7.227
Asta 136 (98-83)	166	minimi	0.00	15.21791	10.20132	-79.75562	-19.72579	-56.10024	2.056
Asta 136 (98-83)	166	minimi	45.50	15.21791	10.20132	-85.41048	-19.72579	-88.96433	-2.585
Asta 136 (98-83)	166	minimi	91.00	15.21791	10.20132	-91.06533	-19.72579	-125.37936	-7.227
Asta 137 (88-93)	167	massimi	0.00	-4.08317	0.22035	36.02974	1.43133	-1.88215	0.299
Asta 137 (88-93)	167	massimi	204.50	-4.08317	0.22035	12.08291	1.06664	10.04295	-0.152
Asta 137 (88-93)	167	massimi	409.00	-4.08317	0.22035	-10.85012	0.88006	11.1273	-0.602
Asta 137 (88-93)	167	minimi	0.00	-4.08317	0.22035	16.09662	-0.52487	-38.98353	0.299
Asta 137 (88-93)	167	minimi	204.50	-4.08317	0.22035	-7.85021	-0.88955	6.37297	-0.152
Asta 137 (88-93)	167	minimi	409.00	-4.08317	0.22035	-30.78324	-1.07613	-33.29911	-0.602
Asta 138 (98-88)	168	massimi	0.00	-12.2405	0.68408	29.0966	4.08889	41.24639	1.17
Asta 138 (98-88)	168	massimi	205.50	-12.2405	0.68408	5.05031	3.73599	12.93322	-0.236
Asta 138 (98-88)	168	massimi	411.00	-12.2405	0.68408	-18.20877	3.52627	-6.98053	-1.642
Asta 138 (98-88)	168	minimi	0.00	-12.2405	0.68408	-1.72844	-3.63552	-28.27935	1.17
Asta 138 (98-88)	168	minimi	205.50	-12.2405	0.68408	-25.77473	-3.98842	6.59065	-0.236
Asta 138 (98-88)	168	minimi	411.00	-12.2405	0.68408	-49.03381	-4.19814	-64.15131	-1.642
Asta 139 (113-98)	169	massimi	0.00	14.53382	-2.03918	77.29242	9.67121	76.14934	-4.584

Asta 139 (113-98)	169	massimi	191.50	14.53382	-2.03918	53.49108	9.67121	31.21477	-0.679
Asta 139 (113-98)	169	massimi	383.00	14.53382	-2.03918	29.68974	9.67121	76.40485	3.226
Asta 139 (113-98)	169	minimi	0.00	14.53382	-2.03918	-11.57191	-10.88671	-128.47353	-4.584
Asta 139 (113-98)	169	minimi	191.50	14.53382	-2.03918	-35.37325	-10.88671	-3.26375	-0.679
Asta 139 (113-98)	169	minimi	383.00	14.53382	-2.03918	-59.17459	-10.88671	-59.33776	3.226
Asta 140 (143-113)	170	massimi	0.00	5.18457	2.41652	113.96746	8.62218	136.17077	2.493
Asta 140 (143-113)	170	massimi	165.00	5.18457	2.41652	108.39449	8.62218	11.30082	-1.495
Asta 140 (143-113)	170	massimi	330.00	5.18457	2.41652	102.82153	8.62218	160.69829	-5.482
Asta 140 (143-113)	170	minimi	0.00	5.18457	2.41652	-72.89707	-2.66852	-197.00493	2.493
Asta 140 (143-113)	170	minimi	165.00	5.18457	2.41652	-78.47003	-2.66852	-13.56422	-1.495
Asta 140 (143-113)	170	minimi	330.00	5.18457	2.41652	-84.043	-2.66852	-122.78172	-5.482
Asta 141 (3-2)	171	massimi	0.00	-72.70618	250.42577	111.8504	15.24877	31.19975	104.187
Asta 141 (3-2)	171	massimi	94.00	-76.93618	250.42577	111.8504	15.24877	84.9099	252.324
Asta 141 (3-2)	171	massimi	188.00	-81.16617	250.42577	111.8504	15.24877	187.87541	442.243
Asta 141 (3-2)	171	minimi	0.00	-423.56878	-203.47779	-93.51271	-14.77372	-37.64318	-93.238
Asta 141 (3-2)	171	minimi	94.00	-427.79878	-203.47779	-93.51271	-14.77372	-74.1159	-285.507
Asta 141 (3-2)	171	minimi	188.00	-432.02878	-203.47779	-93.51271	-14.77372	-159.84397	-519.557
Asta 142 (8-7)	172	massimi	0.00	-70.49117	200.26094	101.56588	16.33196	31.25301	93.722
Asta 142 (8-7)	172	massimi	94.00	-74.72116	200.26094	101.56588	16.33196	60.33039	290.12
Asta 142 (8-7)	172	massimi	188.00	-78.95116	200.26094	101.56588	16.33196	154.75594	527.702
Asta 142 (8-7)	172	minimi	0.00	-448.44596	-254.23351	-71.53725	-13.69053	-43.00888	-102.51
Asta 142 (8-7)	172	minimi	94.00	-452.67596	-254.23351	-71.53725	-13.69053	-43.85936	-248.173
Asta 142 (8-7)	172	minimi	188.00	-456.90596	-254.23351	-71.53725	-13.69053	-110.058	-435.021
Asta 143 (13-12)	173	massimi	0.00	-172.26885	225.13241	142.12125	15.98083	42.93184	45.808
Asta 143 (13-12)	173	massimi	94.00	-176.49885	225.13241	142.12125	15.98083	118.50993	164.353
Asta 143 (13-12)	173	massimi	188.00	-180.72885	225.13241	142.12125	15.98083	249.69827	313.45
Asta 143 (13-12)	173	minimi	0.00	-400.45738	-161.16178	-135.37578	-14.04166	-45.12833	-77.626
Asta 143 (13-12)	173	minimi	94.00	-404.68738	-161.16178	-135.37578	-14.04166	-114.36568	-256.303
Asta 143 (13-12)	173	minimi	188.00	-408.91738	-161.16178	-135.37578	-14.04166	-239.21328	-465.533
Asta 144 (18-17)	174	massimi	0.00	-247.27508	380.94526	132.37542	17.33566	45.22911	126.316
Asta 144 (18-17)	174	massimi	94.00	-251.50508	380.94526	132.37542	17.33566	90.25666	371.663
Asta 144 (18-17)	174	massimi	188.00	-255.73508	380.94526	132.37542	17.33566	213.60401	761.181

Asta 144 (18-17)	174	minimi	0.00	-399.99819	-417.27677	-109.97672	-12.68683	-52.45957	-87.197
Asta 144 (18-17)	174	minimi	94.00	-404.22819	-417.27677	-109.97672	-12.68683	-76.43234	-298.391
Asta 144 (18-17)	174	minimi	188.00	-408.45819	-417.27677	-109.97672	-12.68683	-178.72492	-653.758
Asta 145 (23-22)	175	massimi	0.00	-5.29355	36.48388	60.43769	2.78207	19.08196	6.179
Asta 145 (23-22)	175	massimi	94.00	-6.7623	36.48388	60.43769	2.78207	41.02273	56.089
Asta 145 (23-22)	175	massimi	188.00	-8.23105	36.48388	60.43769	2.78207	93.2139	109.876
Asta 145 (23-22)	175	minimi	0.00	-108.83721	-61.75641	-37.17137	-1.88952	-24.87608	-17.522
Asta 145 (23-22)	175	minimi	94.00	-110.30596	-61.75641	-37.17137	-1.88952	-24.9465	-43.676
Asta 145 (23-22)	175	minimi	188.00	-111.77471	-61.75641	-37.17137	-1.88952	-55.26733	-73.707
Asta 146 (28-27)	176	massimi	0.00	-209.54169	177.15951	138.04118	15.86167	43.22493	31.476
Asta 146 (28-27)	176	massimi	94.00	-213.77169	177.15951	138.04118	15.86167	115.89562	136.737
Asta 146 (28-27)	176	massimi	188.00	-218.00169	177.15951	138.04118	15.86167	243.2557	246.603
Asta 146 (28-27)	176	minimi	0.00	-379.96365	-118.19516	-139.58149	-14.16082	-42.95036	-56.618
Asta 146 (28-27)	176	minimi	94.00	-384.19365	-118.19516	-139.58149	-14.16082	-117.06895	-217.306
Asta 146 (28-27)	176	minimi	188.00	-388.42365	-118.19516	-139.58149	-14.16082	-245.87693	-382.598
Asta 147 (33-32)	177	massimi	0.00	-308.85308	218.26707	122.31492	16.22827	44.98576	67.487
Asta 147 (33-32)	177	massimi	94.00	-313.08308	218.26707	122.31492	16.22827	84.30724	265.584
Asta 147 (33-32)	177	massimi	188.00	-317.31308	218.26707	122.31492	16.22827	198.1748	484.781
Asta 147 (33-32)	177	minimi	0.00	-419.89489	-234.83673	-115.80052	-13.79422	-47.98558	-19.859
Asta 147 (33-32)	177	minimi	94.00	-424.12489	-234.83673	-115.80052	-13.79422	-81.18352	-202.381
Asta 147 (33-32)	177	minimi	188.00	-428.35489	-234.83673	-115.80052	-13.79422	-188.92755	-406.003
Asta 148 (38-37)	178	massimi	0.00	-20.82084	13.99791	66.02695	2.65688	19.28183	4.697
Asta 148 (38-37)	178	massimi	94.00	-22.28959	13.99791	66.02695	2.65688	46.27398	45.077
Asta 148 (38-37)	178	massimi	188.00	-23.75834	13.99791	66.02695	2.65688	101.24921	86.777
Asta 148 (38-37)	178	minimi	0.00	-147.43116	-48.06747	-44.94814	-2.01471	-24.87983	-19.491
Asta 148 (38-37)	178	minimi	94.00	-148.89991	-48.06747	-44.94814	-2.01471	-32.0579	-27.845
Asta 148 (38-37)	178	minimi	188.00	-150.36866	-48.06747	-44.94814	-2.01471	-67.21905	-37.519
Asta 149 (43-42)	179	massimi	0.00	-211.73692	177.7237	137.84353	14.55655	43.39232	37.523
Asta 149 (43-42)	179	massimi	94.00	-215.96692	177.7237	137.84353	14.55655	115.7362	125.516
Asta 149 (43-42)	179	massimi	188.00	-220.19692	177.7237	137.84353	14.55655	242.88547	236.789
Asta 149 (43-42)	179	minimi	0.00	-377.54924	-119.928	-140.05766	-15.46594	-42.92246	-60.731
Asta 149 (43-42)	179	minimi	94.00	-381.77924	-119.928	-140.05766	-15.46594	-117.34761	-203.052
Asta 149 (43-42)	179	minimi	188.00	-386.00924	-119.928	-140.05766	-15.46594	-246.57816	-368.653
Asta 150 (48-47)	180	massimi	0.00	-304.02343	216.57472	119.45881	15.24426	46.12619	77.663
Asta 150 (48-47)	180	massimi	94.00	-308.25343	216.57472	119.45881	15.24426	82.39187	246.476

Asta 150 (48-47)	180	massimi	188.00	-312.48343	216.57472	119.45881	15.24426	193.60127	457.941
Asta 150 (48-47)	180	minimi	0.00	-434.35169	-226.60737	-119.37548	-14.77823	-47.1612	-28.608
Asta 150 (48-47)	180	minimi	94.00	-438.58169	-226.60737	-119.37548	-14.77823	-83.34855	-187.991
Asta 150 (48-47)	180	minimi	188.00	-442.81169	-226.60737	-119.37548	-14.77823	-194.47962	-390.025
Asta 151 (53-52)	181	massimi	0.00	-34.95009	17.92236	115.47845	0.93341	59.85734	-1.501
Asta 151 (53-52)	181	massimi	94.00	-36.41884	17.92236	115.47845	0.93341	24.93394	38.527
Asta 151 (53-52)	181	massimi	188.00	-37.88759	17.92236	115.47845	0.93341	131.59312	83.992
Asta 151 (53-52)	181	minimi	0.00	-209.26054	-50.09665	-83.42477	-3.73818	-87.70207	-14.206
Asta 151 (53-52)	181	minimi	94.00	-210.72929	-50.09665	-83.42477	-3.73818	-22.64822	-23.99
Asta 151 (53-52)	181	minimi	188.00	-212.19804	-50.09665	-83.42477	-3.73818	-99.17694	-39.212
Asta 152 (58-57)	182	massimi	0.00	-46.22919	22.303	26.15546	2.00721	34.71842	28.383
Asta 152 (58-57)	182	massimi	94.00	-47.69794	22.303	26.15546	2.00721	21.22324	10.76
Asta 152 (58-57)	182	massimi	188.00	-49.16669	22.303	26.15546	2.00721	21.59511	11.02
Asta 152 (58-57)	182	minimi	0.00	-82.68363	-37.37163	-26.01232	-2.43971	-37.45027	-61.471
Asta 152 (58-57)	182	minimi	94.00	-84.15238	-37.37163	-26.01232	-2.43971	-23.82053	-29.684
Asta 152 (58-57)	182	minimi	188.00	-85.62113	-37.37163	-26.01232	-2.43971	-24.05785	-15.779
Asta 153 (63-62)	183	massimi	0.00	-4.9235	11.50106	25.94744	2.15586	37.78971	10.594
Asta 153 (63-62)	183	massimi	94.00	-6.39225	11.50106	25.94744	2.15586	23.93875	5.692
Asta 153 (63-62)	183	massimi	188.00	-7.861	11.50106	25.94744	2.15586	23.34685	7.182
Asta 153 (63-62)	183	minimi	0.00	-45.23693	-19.01123	-25.39766	-2.29105	-40.4846	-32.775
Asta 153 (63-62)	183	minimi	94.00	-46.70568	-19.01123	-25.39766	-2.29105	-26.11685	-20.813
Asta 153 (63-62)	183	minimi	188.00	-48.17443	-19.01123	-25.39766	-2.29105	-25.00815	-15.244
Asta 154 (73-72)	184	massimi	0.00	-195.55286	196.336	136.04085	14.45631	44.44606	45.198
Asta 154 (73-72)	184	massimi	94.00	-199.78286	196.336	136.04085	14.45631	114.72557	116.776
Asta 154 (73-72)	184	massimi	188.00	-204.01286	196.336	136.04085	14.45631	239.90627	243.89
Asta 154 (73-72)	184	minimi	0.00	-384.52368	-136.23324	-142.57421	-15.56618	-42.65789	-68.728
Asta 154 (73-72)	184	minimi	94.00	-388.75368	-136.23324	-142.57421	-15.56618	-119.07875	-196.803
Asta 154 (73-72)	184	minimi	188.00	-392.98368	-136.23324	-142.57421	-15.56618	-250.40082	-380.413
Asta 155 (78-77)	185	massimi	0.00	-286.31323	240.665	115.03921	14.27412	48.10696	93.871
Asta 155 (78-77)	185	massimi	94.00	-290.54323	240.665	115.03921	14.27412	79.48409	239.867
Asta 155 (78-77)	185	massimi	188.00	-294.77323	240.665	115.03921	14.27412	186.61933	467.705
Asta 155 (78-77)	185	minimi	0.00	-432.57209	-243.43099	-124.94291	-15.74837	-46.26082	-40.078
Asta 155 (78-77)	185	minimi	94.00	-436.80209	-243.43099	-124.94291	-15.74837	-86.94743	-183.473
Asta 155 (78-77)	185	minimi	188.00	-441.03209	-243.43099	-124.94291	-15.74837	-203.39214	-408.711
Asta 156 (83-82)	186	massimi	0.00	-70.67069	28.87857	125.33175	2.04715	103.19444	9.194

Asta 156 (83-82)	186	massimi	94.00	-72.13944	28.87857	125.33175	2.04715	14.91248	35.624
Asta 156 (83-82)	186	massimi	188.00	-73.60819	28.87857	125.33175	2.04715	132.26146	86.985
Asta 156 (83-82)	186	minimi	0.00	-218.33262	-54.72323	-124.01067	-2.62444	-104.8388	-19.968
Asta 156 (83-82)	186	minimi	94.00	-219.80137	-54.72323	-124.01067	-2.62444	-15.31504	-22.104
Asta 156 (83-82)	186	minimi	188.00	-221.27012	-54.72323	-124.01067	-2.62444	-131.42221	-49.171
Asta 157 (88-87)	187	massimi	0.00	-40.97763	24.6113	26.08194	2.03597	33.74194	31.861
Asta 157 (88-87)	187	massimi	94.00	-42.44638	24.6113	26.08194	2.03597	22.2197	12.297
Asta 157 (88-87)	187	massimi	188.00	-43.91513	24.6113	26.08194	2.03597	24.21274	12.47
Asta 157 (88-87)	187	minimi	0.00	-83.87399	-38.77406	-23.99348	-2.41095	-35.18147	-62.479
Asta 157 (88-87)	187	minimi	94.00	-85.34274	-38.77406	-23.99348	-2.41095	-21.69607	-29.602
Asta 157 (88-87)	187	minimi	188.00	-86.81149	-38.77406	-23.99348	-2.41095	-21.72596	-16.462
Asta 158 (93-92)	188	massimi	0.00	1.72246	12.32581	25.85309	2.15797	39.6902	11.324
Asta 158 (93-92)	188	massimi	94.00	0.25371	12.32581	25.85309	2.15797	25.68739	5.866
Asta 158 (93-92)	188	massimi	188.00	-1.21504	12.32581	25.85309	2.15797	25.0693	7.693
Asta 158 (93-92)	188	minimi	0.00	-49.4785	-19.85709	-25.57288	-2.28894	-38.44612	-33.505
Asta 158 (93-92)	188	minimi	94.00	-50.94725	-19.85709	-25.57288	-2.28894	-24.17991	-20.968
Asta 158 (93-92)	188	minimi	188.00	-52.416	-19.85709	-25.57288	-2.28894	-23.29843	-15.714
Asta 159 (103-102)	189	massimi	0.00	-49.68705	235.82783	109.13416	15.88342	41.33642	68.262
Asta 159 (103-102)	189	massimi	94.00	-53.91705	235.82783	109.13416	15.88342	82.62321	145.108
Asta 159 (103-102)	189	massimi	188.00	-58.14705	235.82783	109.13416	15.88342	182.01704	298.473
Asta 159 (103-102)	189	minimi	0.00	-446.8713	-164.61049	-119.93667	-14.13907	-38.03719	-85.58
Asta 159 (103-102)	189	minimi	94.00	-451.1013	-164.61049	-119.93667	-14.13907	-89.47834	-229.37
Asta 159 (103-102)	189	minimi	188.00	-455.3313	-164.61049	-119.93667	-14.13907	-199.02652	-449.68
Asta 160 (108-107)	190	massimi	0.00	-119.9436	258.23211	92.87101	14.08703	47.22366	104.533
Asta 160 (108-107)	190	massimi	94.00	-124.1736	258.23211	92.87101	14.08703	54.46422	258.987
Asta 160 (108-107)	190	massimi	188.00	-128.4036	258.23211	92.87101	14.08703	140.77719	507.259
Asta 160 (108-107)	190	minimi	0.00	-517.09362	-265.71859	-112.70205	-15.93546	-43.33749	-64.263
Asta 160 (108-107)	190	minimi	94.00	-521.32362	-265.71859	-112.70205	-15.93546	-69.21924	-211.68
Asta 160 (108-107)	190	minimi	188.00	-525.55362	-265.71859	-112.70205	-15.93546	-174.17339	-452.914
Asta 161	191	massimi	0.00	-18.17561	22.86035	102.30646	1.35413	130.31752	2.069

(113-112)									
Asta 161 (113-112)	191	massimi	94.00	-19.64436	22.86035	102.30646	1.35413	11.57739	43.711
Asta 161 (113-112)	191	massimi	188.00	-21.11311	22.86035	102.30646	1.35413	107.66381	92.549
Asta 161 (113-112)	191	minimi	0.00	-147.91998	-52.92655	-152.47616	-3.31746	-84.83244	-15.205
Asta 161 (113-112)	191	minimi	94.00	-149.38873	-52.92655	-152.47616	-3.31746	-13.25183	-28.584
Asta 161 (113-112)	191	minimi	188.00	-150.85748	-52.92655	-152.47616	-3.31746	-156.49777	-49.16
Asta 162 (118-117)	192	massimi	0.00	-19.15832	52.12344	67.05613	2.49481	12.22411	15.277
Asta 162 (118-117)	192	massimi	94.00	-20.62707	52.12344	67.05613	2.49481	43.95457	34.116
Asta 162 (118-117)	192	massimi	188.00	-22.09582	52.12344	67.05613	2.49481	104.2291	56.007
Asta 162 (118-117)	192	minimi	0.00	-139.15931	-27.76877	-38.75971	-2.17679	-27.25586	-7.358
Asta 162 (118-117)	192	minimi	94.00	-140.62806	-27.76877	-38.75971	-2.17679	-32.38769	-49.091
Asta 162 (118-117)	192	minimi	188.00	-142.09681	-27.76877	-38.75971	-2.17679	-66.06359	-93.875
Asta 163 (123-122)	193	massimi	0.00	35.19772	18.04077	45.98334	1.32672	15.5344	7.396
Asta 163 (123-122)	193	massimi	94.00	33.72897	18.04077	45.98334	1.32672	32.59487	44.194
Asta 163 (123-122)	193	massimi	188.00	32.26022	18.04077	45.98334	1.32672	73.29869	83.346
Asta 163 (123-122)	193	minimi	0.00	-153.57751	-46.2068	-37.55839	-3.34488	-18.94081	-16.044
Asta 163 (123-122)	193	minimi	94.00	-155.04626	-46.2068	-37.55839	-3.34488	-28.08183	-26.365
Asta 163 (123-122)	193	minimi	188.00	-156.51501	-46.2068	-37.55839	-3.34488	-60.86621	-39.041
Asta 164 (128-127)	194	massimi	0.00	-45.21187	49.99454	42.12714	1.73071	28.14253	13.374
Asta 164 (128-127)	194	massimi	94.00	-46.68062	49.99454	42.12714	1.73071	35.55964	34.604
Asta 164 (128-127)	194	massimi	188.00	-48.14937	49.99454	42.12714	1.73071	71.59793	67.846
Asta 164 (128-127)	194	minimi	0.00	-98.90362	-36.95521	-68.64731	-2.94088	-12.66272	-9.564
Asta 164 (128-127)	194	minimi	94.00	-100.37237	-36.95521	-68.64731	-2.94088	-45.00879	-43.051
Asta 164 (128-127)	194	minimi	188.00	-101.84112	-36.95521	-68.64731	-2.94088	-105.97604	-88.55

Asta 165 (133-132)	195	massimi	0.00	-44.22705	44.87303	35.37403	2.28437	18.93869	11.952
Asta 165 (133-132)	195	massimi	94.00	-45.6958	44.87303	35.37403	2.28437	26.20941	47.074
Asta 165 (133-132)	195	massimi	188.00	-47.16455	44.87303	35.37403	2.28437	56.91739	90.513
Asta 165 (133-132)	195	minimi	0.00	-113.1964	-49.58077	-46.50706	-2.38722	-15.96735	-11.366
Asta 165 (133-132)	195	minimi	94.00	-114.66515	-49.58077	-46.50706	-2.38722	-33.70312	-42.062
Asta 165 (133-132)	195	minimi	188.00	-116.1339	-49.58077	-46.50706	-2.38722	-74.87615	-81.077
Asta 166 (138-137)	196	massimi	0.00	-63.70269	34.52437	47.48866	1.51186	19.62051	10.27
Asta 166 (138-137)	196	massimi	94.00	-65.17144	34.52437	47.48866	1.51186	34.95305	34.411
Asta 166 (138-137)	196	massimi	188.00	-66.64019	34.52437	47.48866	1.51186	73.89502	63.07
Asta 166 (138-137)	196	minimi	0.00	-114.20102	-31.39453	-50.41718	-3.15974	-18.49331	-7.335
Asta 166 (138-137)	196	minimi	94.00	-115.66977	-31.39453	-50.41718	-3.15974	-36.57866	-34.418
Asta 166 (138-137)	196	minimi	188.00	-117.13852	-31.39453	-50.41718	-3.15974	-78.27344	-66.02
Asta 167 (143-142)	197	massimi	0.00	22.93433	24.17559	77.90909	0.33364	94.25301	8.517
Asta 167 (143-142)	197	massimi	94.00	21.46558	24.17559	77.90909	0.33364	16.37	38.974
Asta 167 (143-142)	197	massimi	188.00	19.99683	24.17559	77.90909	0.33364	88.99538	76.132
Asta 167 (143-142)	197	minimi	0.00	-162.9138	-40.44489	-120.08664	-4.33795	-60.4184	-13.119
Asta 167 (143-142)	197	minimi	94.00	-164.38255	-40.44489	-120.08664	-4.33795	-22.18229	-28.283
Asta 167 (143-142)	197	minimi	188.00	-165.8513	-40.44489	-120.08664	-4.33795	-134.45456	-50.147
Asta 168 (148-147)	198	massimi	0.00	26.96933	38.23596	42.75678	2.05125	23.22821	10.074
Asta 168 (148-147)	198	massimi	94.00	25.50058	38.23596	42.75678	2.05125	28.8882	39.191
Asta 168 (148-147)	198	massimi	188.00	24.03183	38.23596	42.75678	2.05125	62.91681	78.469
Asta 168 (148-147)	198	minimi	0.00	-82.12974	-44.53764	-56.34841	-2.39566	-19.87178	-12.541
Asta 168 (148-147)	198	minimi	94.00	-83.59849	-44.53764	-56.34841	-2.39566	-38.30791	-35.735
Asta 168 (148-147)	198	minimi	188.00	-85.06724	-44.53764	-56.34841	-2.39566	-85.11266	-69.09

147)									
Asta 169 (153-152)	199	massimi	0.00	-65.48705	30.21493	23.39477	3.11789	13.03384	8.132
Asta 169 (153-152)	199	massimi	94.00	-66.9558	30.21493	23.39477	3.11789	15.93072	43.124
Asta 169 (153-152)	199	massimi	188.00	-68.42455	30.21493	23.39477	3.11789	37.16139	81.231
Asta 169 (153-152)	199	minimi	0.00	-86.06043	-43.52854	-25.99331	-1.55371	-11.9207	-12.424
Asta 169 (153-152)	199	minimi	94.00	-87.52918	-43.52854	-25.99331	-1.55371	-17.2602	-34.902
Asta 169 (153-152)	199	minimi	188.00	-88.99793	-43.52854	-25.99331	-1.55371	-40.9335	-60.494
Asta 170 (158-157)	200	massimi	0.00	-53.80371	39.08815	26.50783	2.64491	13.59716	9.51
Asta 170 (158-157)	200	massimi	94.00	-55.27246	39.08815	26.50783	2.64491	14.93753	46.205
Asta 170 (158-157)	200	massimi	188.00	-56.74121	39.08815	26.50783	2.64491	39.08536	90.341
Asta 170 (158-157)	200	minimi	0.00	-94.00929	-50.99342	-28.17469	-1.80201	-15.85986	-13.636
Asta 170 (158-157)	200	minimi	94.00	-95.47804	-50.99342	-28.17469	-1.80201	-18.76708	-39.139
Asta 170 (158-157)	200	minimi	188.00	-96.94679	-50.99342	-28.17469	-1.80201	-44.48175	-72.085
Asta 171 (4-9)	201	massimi	0.00	39.30857	0.08717	85.9186	3.80172	103.80797	0.371
Asta 171 (4-9)	201	massimi	630.00	39.30857	0.08717	32.86555	4.88637	55.23927	-0.179
Asta 171 (4-9)	201	massimi	1260.00	39.30857	0.08717	-17.6795	5.51751	101.70969	-0.728
Asta 171 (4-9)	201	minimi	0.00	39.30857	0.08717	19.02349	-5.41604	-317.66308	0.371
Asta 171 (4-9)	201	minimi	630.00	39.30857	0.08717	-34.02956	-4.3314	55.1732	-0.179
Asta 171 (4-9)	201	minimi	1260.00	39.30857	0.08717	-84.57461	-3.70026	-319.69768	-0.728
Asta 172 (14-4)	202	massimi	0.00	-0.99606	0.2754	138.16773	6.30094	260.06843	0.957
Asta 172 (14-4)	202	massimi	237.00	-0.99606	0.2754	113.39209	6.72476	27.02859	0.304
Asta 172 (14-4)	202	massimi	474.00	-0.99606	0.2754	89.82702	6.93727	267.58128	-0.349
Asta 172 (14-4)	202	minimi	0.00	-0.99606	0.2754	-99.14438	-5.19658	-270.85629	0.957
Asta 172 (14-4)	202	minimi	237.00	-0.99606	0.2754	-123.92001	-4.77276	-4.52754	0.304
Asta 172 (14-4)	202	minimi	474.00	-0.99606	0.2754	-147.48509	-4.56025	-326.35881	-0.349
Asta 173 (9-19)	203	massimi	0.00	-2.6892	-0.90645	134.16412	4.50719	197.63083	-2.507
Asta 173 (9-19)	203	massimi	237.00	-2.6892	-0.90645	109.38849	4.93101	23.75768	-0.359
Asta 173 (9-19)	203	massimi	474.00	-2.6892	-0.90645	85.82341	5.14352	229.53668	1.789
Asta 173 (9-19)	203	minimi	0.00	-2.6892	-0.90645	-60.89094	-10.42985	-289.92542	-2.507
Asta 173 (9-19)	203	minimi	237.00	-2.6892	-0.90645	-85.66657	-10.00603	-1.59124	-0.359

Asta 173 (9-19)	203	minimi	474.00	-2.6892	-0.90645	-109.23165	-9.79351	-207.4767	1.789
Asta 174 (29-14)	204	massimi	0.00	-0.84492	-0.5216	137.64604	6.03373	245.52135	-1.331
Asta 174 (29-14)	204	massimi	237.00	-0.84492	-0.5216	112.87041	6.45755	10.95294	-0.095
Asta 174 (29-14)	204	massimi	474.00	-0.84492	-0.5216	89.30534	6.67007	249.95098	1.141
Asta 174 (29-14)	204	minimi	0.00	-0.84492	-0.5216	-86.61941	-8.25992	-286.0112	-1.331
Asta 174 (29-14)	204	minimi	237.00	-0.84492	-0.5216	-111.39504	-7.8361	10.29391	-0.095
Asta 174 (29-14)	204	minimi	474.00	-0.84492	-0.5216	-134.96012	-7.62359	-281.5349	1.141
Asta 175 (24-19)	205	massimi	0.00	-13.25335	-0.77605	97.78711	5.62546	109.77904	-2.281
Asta 175 (24-19)	205	massimi	307.50	-13.25335	-0.77605	54.75414	5.06684	81.48234	0.106
Asta 175 (24-19)	205	massimi	615.00	-13.25335	-0.77605	13.41329	4.80008	185.8523	2.492
Asta 175 (24-19)	205	minimi	0.00	-13.25335	-0.77605	-17.16154	-3.74804	-152.75257	-2.281
Asta 175 (24-19)	205	minimi	307.50	-13.25335	-0.77605	-60.19452	-4.30667	-9.72584	0.106
Asta 175 (24-19)	205	minimi	615.00	-13.25335	-0.77605	-101.53537	-4.57342	-258.81528	2.492
Asta 176 (19-34)	206	massimi	0.00	-4.31085	0.21389	114.63088	5.52649	196.66762	0.912
Asta 176 (19-34)	206	massimi	237.00	-4.31085	0.21389	93.65069	5.52649	11.5646	0.405
Asta 176 (19-34)	206	massimi	474.00	-4.31085	0.21389	72.67051	5.52649	207.1245	-0.102
Asta 176 (19-34)	206	minimi	0.00	-4.31085	0.21389	-68.07941	-7.5875	-236.78057	0.912
Asta 176 (19-34)	206	minimi	237.00	-4.31085	0.21389	-89.05959	-7.5875	8.9264	0.405
Asta 176 (19-34)	206	minimi	474.00	-4.31085	0.21389	-110.03978	-7.5875	-225.47564	-0.102
Asta 177 (39-24)	207	massimi	0.00	-12.40921	0.61708	32.10683	3.32902	55.19237	1.09
Asta 177 (39-24)	207	massimi	237.00	-12.40921	0.61708	21.65745	2.91483	18.52242	-0.372
Asta 177 (39-24)	207	massimi	474.00	-12.40921	0.61708	12.24124	2.6856	58.31774	-1.835
Asta 177 (39-24)	207	minimi	0.00	-12.40921	0.61708	-21.75584	-0.31268	-45.21144	1.09
Asta 177 (39-24)	207	minimi	237.00	-12.40921	0.61708	-32.20522	-0.72688	-9.18277	-0.372
Asta 177 (39-24)	207	minimi	474.00	-12.40921	0.61708	-41.62143	-0.9561	-96.70082	-1.835
Asta 178 (44-29)	208	massimi	0.00	-1.2722	0.03362	137.41649	6.64241	244.53069	-0.453
Asta 178 (44-29)	208	massimi	237.00	-1.2722	0.03362	112.64086	7.06623	9.64894	-0.533
Asta 178 (44-29)	208	massimi	474.00	-1.2722	0.03362	89.07578	7.27875	248.42822	-0.612
Asta 178 (44-29)	208	minimi	0.00	-1.2722	0.03362	-86.63086	-7.657	-286.44578	-0.453
Asta 178 (44-29)	208	minimi	237.00	-1.2722	0.03362	-111.4065	-7.23319	9.60148	-0.533
Asta 178 (44-29)	208	minimi	474.00	-1.2722	0.03362	-134.97157	-7.02067	-282.57976	-0.612
Asta 179 (39-34)	209	massimi	0.00	-17.2481	-1.37085	109.53647	8.57189	73.86936	-4.084
Asta 179 (39-34)	209	massimi	307.50	-17.2481	-1.37085	39.59611	8.57189	90.77775	0.131
Asta 179 (39-34)	209	massimi	615.00	-17.2481	-1.37085	-30.34424	8.57189	105.00137	4.347
Asta 179 (39-34)	209	minimi	0.00	-17.2481	-1.37085	17.11308	-7.06095	-138.54839	-4.084

Asta 179 (39-34)	209	minimi	307.50	-17.2481	-1.37085	-52.82728	-7.06095	18.92398	0.131
Asta 179 (39-34)	209	minimi	615.00	-17.2481	-1.37085	-122.76763	-7.06095	-251.05205	4.347
Asta 180 (34-49)	210	massimi	0.00	-5.8304	0.81977	112.19059	6.57667	202.76965	2.305
Asta 180 (34-49)	210	massimi	237.00	-5.8304	0.81977	91.21041	6.57667	9.45671	0.362
Asta 180 (34-49)	210	massimi	474.00	-5.8304	0.81977	70.23022	6.57667	200.42569	-1.58
Asta 180 (34-49)	210	minimi	0.00	-5.8304	0.81977	-71.19937	-6.86268	-231.91169	2.305
Asta 180 (34-49)	210	minimi	237.00	-5.8304	0.81977	-92.17955	-6.86268	8.82743	0.362
Asta 180 (34-49)	210	minimi	474.00	-5.8304	0.81977	-113.15974	-6.86268	-234.16146	-1.58
Asta 181 (54-39)	211	massimi	0.00	-24.31947	0.8304	33.45674	1.34822	75.22959	1.263
Asta 181 (54-39)	211	massimi	237.00	-24.31947	0.8304	23.00736	0.93402	13.73605	-0.705
Asta 181 (54-39)	211	massimi	474.00	-24.31947	0.8304	13.59115	0.7048	47.39103	-2.673
Asta 181 (54-39)	211	minimi	0.00	-24.31947	0.8304	-20.85203	-1.95879	-62.50024	1.263
Asta 181 (54-39)	211	minimi	237.00	-24.31947	0.8304	-31.30141	-2.37299	3.69333	-0.705
Asta 181 (54-39)	211	minimi	474.00	-24.31947	0.8304	-40.71762	-2.60222	-72.34307	-2.673
Asta 182 (74-44)	212	massimi	0.00	-1.56582	0.42037	137.23251	7.11107	245.22754	0.857
Asta 182 (74-44)	212	massimi	237.00	-1.56582	0.42037	112.45688	7.53489	10.67459	-0.139
Asta 182 (74-44)	212	massimi	474.00	-1.56582	0.42037	88.8918	7.7474	248.75707	-1.136
Asta 182 (74-44)	212	minimi	0.00	-1.56582	0.42037	-86.83779	-7.17698	-285.24523	0.857
Asta 182 (74-44)	212	minimi	237.00	-1.56582	0.42037	-111.61342	-6.75316	9.5468	-0.139
Asta 182 (74-44)	212	minimi	474.00	-1.56582	0.42037	-135.1785	-6.54065	-282.86409	-1.136
Asta 183 (54-49)	213	massimi	0.00	-20.84041	-2.19675	105.51253	6.30356	71.37573	-6.888
Asta 183 (54-49)	213	massimi	307.50	-20.84041	-2.19675	35.57218	6.30356	86.2365	-0.133
Asta 183 (54-49)	213	massimi	615.00	-20.84041	-2.19675	-34.36818	6.30356	88.08063	6.622
Asta 183 (54-49)	213	minimi	0.00	-20.84041	-2.19675	18.63271	-6.91508	-130.75857	-6.888
Asta 183 (54-49)	213	minimi	307.50	-20.84041	-2.19675	-51.30764	-6.91508	21.06068	-0.133
Asta 183 (54-49)	213	minimi	615.00	-20.84041	-2.19675	-121.248	-6.91508	-244.23659	6.622
Asta 184 (49-79)	214	massimi	0.00	-6.33174	1.40532	112.0089	7.06856	204.42165	3.663
Asta 184 (49-79)	214	massimi	237.00	-6.33174	1.40532	91.02872	7.06856	10.37922	0.332
Asta 184 (49-79)	214	massimi	474.00	-6.33174	1.40532	70.04853	7.06856	200.2117	-2.998
Asta 184 (49-79)	214	minimi	0.00	-6.33174	1.40532	-71.62246	-6.3263	-231.26502	3.663
Asta 184 (49-79)	214	minimi	237.00	-6.33174	1.40532	-92.60264	-6.3263	8.77024	0.332
Asta 184 (49-79)	214	minimi	474.00	-6.33174	1.40532	-113.58283	-6.3263	-234.51548	-2.998
Asta 185 (84-54)	215	massimi	0.00	-54.6137	1.51338	39.20189	1.89807	81.43673	3.663
Asta 185 (84-54)	215	massimi	237.00	-54.6137	1.51338	26.91577	1.48388	13.93011	0.077
Asta 185 (84-54)	215	massimi	474.00	-54.6137	1.51338	15.6628	1.25465	59.84047	-3.51

Asta 185 (84-54)	215	minimi	0.00	-54.6137	1.51338	-23.02464	-1.03557	-68.74939	3.663
Asta 185 (84-54)	215	minimi	237.00	-54.6137	1.51338	-35.31077	-1.44977	7.57109	0.077
Asta 185 (84-54)	215	minimi	474.00	-54.6137	1.51338	-46.56373	-1.679	-85.31306	-3.51
Asta 186 (104-74)	216	massimi	0.00	-2.02612	0.13071	148.85458	5.96918	272.12373	1.162
Asta 186 (104-74)	216	massimi	237.00	-2.02612	0.13071	124.07895	6.393	24.84131	0.853
Asta 186 (104-74)	216	massimi	474.00	-2.02612	0.13071	100.51387	6.60551	261.40052	0.543
Asta 186 (104-74)	216	minimi	0.00	-2.02612	0.13071	-91.86094	-7.86603	-327.69297	1.162
Asta 186 (104-74)	216	minimi	237.00	-2.02612	0.13071	-116.63657	-7.44221	-4.53202	0.853
Asta 186 (104-74)	216	minimi	474.00	-2.02612	0.13071	-140.20165	-7.2297	-279.7802	0.543
Asta 187 (84-79)	217	massimi	0.00	-28.067	-2.45051	107.11773	4.588	70.01345	-7.353
Asta 187 (84-79)	217	massimi	307.50	-28.067	-2.45051	37.17738	4.588	85.08979	0.183
Asta 187 (84-79)	217	massimi	615.00	-28.067	-2.45051	-32.76298	4.588	91.86701	7.718
Asta 187 (84-79)	217	minimi	0.00	-28.067	-2.45051	18.9655	-7.79524	-136.78009	-7.353
Asta 187 (84-79)	217	minimi	307.50	-28.067	-2.45051	-50.97485	-7.79524	20.78291	0.183
Asta 187 (84-79)	217	minimi	615.00	-28.067	-2.45051	-120.9152	-7.79524	-243.48813	7.718
Asta 188 (79-109)	218	massimi	0.00	-6.68431	1.87627	112.82256	8.15498	223.98914	4.667
Asta 188 (79-109)	218	massimi	237.00	-6.68431	1.87627	91.84237	8.15498	20.07915	0.22
Asta 188 (79-109)	218	massimi	474.00	-6.68431	1.87627	70.86218	8.15498	212.86661	-4.226
Asta 188 (79-109)	218	minimi	0.00	-6.68431	1.87627	-84.57456	-4.99901	-222.46791	4.667
Asta 188 (79-109)	218	minimi	237.00	-6.68431	1.87627	-105.55474	-4.99901	-1.33321	0.22
Asta 188 (79-109)	218	minimi	474.00	-6.68431	1.87627	-126.53493	-4.99901	-276.34204	-4.226
Asta 189 (114-84)	219	massimi	0.00	-61.71872	0.63109	47.86019	3.44942	84.60052	-0.177
Asta 189 (114-84)	219	massimi	237.00	-61.71872	0.63109	39.35781	3.44942	14.09179	-1.672
Asta 189 (114-84)	219	massimi	474.00	-61.71872	0.63109	30.85544	3.44942	93.35677	-3.168
Asta 189 (114-84)	219	minimi	0.00	-61.71872	0.63109	-26.67005	-0.85105	-93.21899	-0.177
Asta 189 (114-84)	219	minimi	237.00	-61.71872	0.63109	-35.17242	-0.85105	7.35975	-1.672
Asta 189 (114-84)	219	minimi	474.00	-61.71872	0.63109	-43.6748	-0.85105	-82.13649	-3.168
Asta 190 (119-104)	220	massimi	0.00	15.691	-2.61107	74.26563	25.41488	95.0392	-4.822
Asta 190 (119-104)	220	massimi	173.00	15.691	-2.61107	55.28464	25.76019	65.67005	-0.305
Asta 190 (119-104)	220	massimi	346.00	15.691	-2.61107	37.7848	25.88224	145.76038	4.212
Asta 190 (119-104)	220	minimi	0.00	15.691	-2.61107	-97.85313	-6.6059	-46.80659	-4.822
Asta 190 (119-104)	220	minimi	173.00	15.691	-2.61107	-116.83411	-6.26059	-91.50798	-0.305
Asta 190	220	minimi	346.00	15.691	-2.61107	-134.33396	-6.13854	-308.78069	4.212

(119-104)									
Asta 191 (114-109)	221	massimi	0.00	-26.14894	-3.94382	103.11578	5.68451	81.13389	-13.064
Asta 191 (114-109)	221	massimi	307.50	-26.14894	-3.94382	42.62182	5.68451	81.20697	-0.936
Asta 191 (114-109)	221	massimi	615.00	-26.14894	-3.94382	-17.87214	5.68451	119.02738	11.191
Asta 191 (114-109)	221	minimi	0.00	-26.14894	-3.94382	8.4127	-12.27872	-143.10346	-13.064
Asta 191 (114-109)	221	minimi	307.50	-26.14894	-3.94382	-52.08126	-12.27872	13.75459	-0.936
Asta 191 (114-109)	221	minimi	615.00	-26.14894	-3.94382	-112.57523	-12.27872	-239.17254	11.191
Asta 192 (109-124)	222	massimi	0.00	26.05315	3.29253	159.57102	15.31235	147.96369	8.15
Asta 192 (109-124)	222	massimi	127.00	26.05315	3.29253	139.68064	15.31235	58.0663	3.969
Asta 192 (109-124)	222	massimi	254.00	26.05315	3.29253	119.79026	15.31235	53.85646	-0.213
Asta 192 (109-124)	222	minimi	0.00	26.05315	3.29253	-61.80787	-21.05682	-302.52931	8.15
Asta 192 (109-124)	222	minimi	127.00	26.05315	3.29253	-81.69826	-21.05682	-113.73352	3.969
Asta 192 (109-124)	222	minimi	254.00	26.05315	3.29253	-101.58864	-21.05682	-61.14683	-0.213
Asta 193 (144-114)	223	massimi	0.00	-31.22844	7.29123	65.52243	4.39378	53.98448	10.737
Asta 193 (144-114)	223	massimi	165.00	-31.22844	7.29123	60.8818	4.39378	7.09956	-1.293
Asta 193 (144-114)	223	massimi	330.00	-31.22844	7.29123	56.24118	4.39378	102.54222	-13.324
Asta 193 (144-114)	223	minimi	0.00	-31.22844	7.29123	-29.26992	-6.34829	-98.86357	10.737
Asta 193 (144-114)	223	minimi	165.00	-31.22844	7.29123	-33.91054	-6.34829	0.18097	-1.293
Asta 193 (144-114)	223	minimi	330.00	-31.22844	7.29123	-38.55117	-6.34829	-58.41615	-13.324
Asta 194 (124-119)	224	massimi	0.00	5.93137	-2.00209	60.1218	-1.41523	48.3361	-8.604
Asta 194 (124-119)	224	massimi	330.00	5.93137	-2.00209	27.10695	-1.41523	49.88602	-1.997
Asta 194 (124-119)	224	massimi	660.00	5.93137	-2.00209	-5.9079	-1.41523	66.81554	4.61
Asta 194 (124-119)	224	minimi	0.00	5.93137	-2.00209	15.42138	-7.14041	-112.46118	-8.604
Asta 194 (124-119)	224	minimi	330.00	5.93137	-2.00209	-17.59347	-7.14041	26.33238	-1.997

Asta 194 (124-119)	224	minimi	660.00	5.93137	-2.00209	-50.60832	-7.14041	-68.15166	4.61
Asta 195 (119-129)	225	massimi	0.00	-14.75719	2.41771	88.47861	10.70449	54.99151	9.274
Asta 195 (119-129)	225	massimi	330.00	-14.75719	2.41771	29.27188	10.1486	65.2577	1.295
Asta 195 (119-129)	225	massimi	660.00	-14.75719	2.41771	-28.86735	9.79019	59.63079	-6.683
Asta 195 (119-129)	225	minimi	0.00	-14.75719	2.41771	32.78531	-1.20214	-134.73914	9.274
Asta 195 (119-129)	225	minimi	330.00	-14.75719	2.41771	-26.42142	-1.75802	59.19626	1.295
Asta 195 (119-129)	225	minimi	660.00	-14.75719	2.41771	-84.56065	-2.11644	-118.21691	-6.683
Asta 196 (124-139)	226	massimi	0.00	-9.50709	6.03876	74.58302	1.12578	86.44929	9.40
Asta 196 (124-139)	226	massimi	165.00	-9.50709	6.03876	46.31165	1.12578	34.22506	-0.564
Asta 196 (124-139)	226	massimi	330.00	-9.50709	6.03876	18.04027	1.12578	54.86285	-10.528
Asta 196 (124-139)	226	minimi	0.00	-9.50709	6.03876	-17.66979	-12.13339	-98.16546	9.40
Asta 196 (124-139)	226	minimi	165.00	-9.50709	6.03876	-45.94117	-12.13339	1.31783	-0.564
Asta 196 (124-139)	226	minimi	330.00	-9.50709	6.03876	-74.21254	-12.13339	-65.35643	-10.528
Asta 197 (129-134)	227	massimi	0.00	-8.93737	-1.4971	35.5386	6.62736	77.36265	-6.078
Asta 197 (129-134)	227	massimi	330.00	-8.93737	-1.4971	21.0233	6.07147	23.57925	-1.138
Asta 197 (129-134)	227	massimi	660.00	-8.93737	-1.4971	7.5755	5.71306	49.33848	3.803
Asta 197 (129-134)	227	minimi	0.00	-8.93737	-1.4971	-8.97611	1.47232	-90.71058	-6.078
Asta 197 (129-134)	227	minimi	330.00	-8.93737	-1.4971	-23.49141	0.91644	2.24141	-1.138
Asta 197 (129-134)	227	minimi	660.00	-8.93737	-1.4971	-36.93921	0.55802	-76.62747	3.803
Asta 198 (139-134)	228	massimi	0.00	-5.16761	2.58994	63.69765	9.07292	45.91969	1.159
Asta 198 (139-134)	228	massimi	165.00	-5.16761	2.58994	36.70502	9.07292	29.36231	-3.114
Asta 198 (139-134)	228	massimi	330.00	-5.16761	2.58994	9.7124	9.07292	67.43177	-7.387
Asta 198 (139-134)	228	minimi	0.00	-5.16761	2.58994	-16.54564	-1.76316	-53.75184	1.159
Asta 198 (139-134)	228	minimi	165.00	-5.16761	2.58994	-43.53826	-1.76316	-3.93147	-3.114

134)									
Asta 198 (139-134)	228	minimi	330.00	-5.16761	2.58994	-70.53089	-1.76316	-97.81361	-7.387
Asta 199 (134-159)	229	massimi	0.00	-9.17344	-1.0982	56.54225	18.51054	56.16196	-3.533
Asta 199 (134-159)	229	massimi	244.50	-9.17344	-1.0982	17.47132	9.87905	24.28139	-0.848
Asta 199 (134-159)	229	massimi	489.00	-9.17344	-1.0982	-17.77295	5.02723	18.0538	1.837
Asta 199 (134-159)	229	minimi	0.00	-9.17344	-1.0982	6.574	0.47545	-70.51329	-3.533
Asta 199 (134-159)	229	minimi	244.50	-9.17344	-1.0982	-32.49693	-8.15604	18.5987	-0.848
Asta 199 (134-159)	229	minimi	489.00	-9.17344	-1.0982	-67.7412	-13.00786	-99.64295	1.837
Asta 200 (139-154)	230	massimi	0.00	-5.01373	-2.87522	63.98331	11.22185	68.61953	-10.863
Asta 200 (139-154)	230	massimi	244.50	-5.01373	-2.87522	25.28915	11.22185	37.20252	-3.833
Asta 200 (139-154)	230	massimi	489.00	-5.01373	-2.87522	-13.40501	11.22185	29.6625	3.196
Asta 200 (139-154)	230	minimi	0.00	-5.01373	-2.87522	6.47111	-13.55326	-94.00312	-10.863
Asta 200 (139-154)	230	minimi	244.50	-5.01373	-2.87522	-32.22305	-13.55326	15.06774	-3.833
Asta 200 (139-154)	230	minimi	489.00	-5.01373	-2.87522	-70.91721	-13.55326	-88.95284	3.196
Asta 201 (149-144)	231	massimi	0.00	-6.53105	-0.06997	63.39712	0.69965	77.27643	2.594
Asta 201 (149-144)	231	massimi	165.00	-6.53105	-0.06997	57.47774	0.69965	5.34967	2.709
Asta 201 (149-144)	231	massimi	330.00	-6.53105	-0.06997	51.55837	0.69965	82.17732	2.825
Asta 201 (149-144)	231	minimi	0.00	-6.53105	-0.06997	-41.07512	-3.17037	-107.51353	2.594
Asta 201 (149-144)	231	minimi	165.00	-6.53105	-0.06997	-46.9945	-3.17037	-8.52244	2.709
Asta 201 (149-144)	231	minimi	330.00	-6.53105	-0.06997	-52.91387	-3.17037	-77.8197	2.825
Asta 202 (154-144)	232	massimi	0.00	1.64307	-1.57595	69.12922	10.6173	37.7681	2.414
Asta 202 (154-144)	232	massimi	190.00	1.64307	-1.57595	39.06014	10.6173	27.62003	5.409
Asta 202 (154-144)	232	massimi	380.00	1.64307	-1.57595	8.99106	10.6173	73.25795	8.403
Asta 202 (154-144)	232	minimi	0.00	1.64307	-1.57595	-6.02896	-17.49192	-75.19179	2.414
Asta 202	232	minimi	190.00	1.64307	-1.57595	-36.09804	-17.49192	-2.28447	5.409

(154-144)									
Asta 202 (154-144)	232	minimi	380.00	1.64307	-1.57595	-66.16712	-17.49192	-99.42566	8.403
Asta 203 (159-149)	233	massimi	0.00	-3.22081	-0.26477	70.28937	8.77693	31.88203	1.415
Asta 203 (159-149)	233	massimi	190.00	-3.22081	-0.26477	48.06604	8.43438	19.54301	1.919
Asta 203 (159-149)	233	massimi	380.00	-3.22081	-0.26477	26.84573	8.26617	90.1317	2.422
Asta 203 (159-149)	233	minimi	0.00	-3.22081	-0.26477	-12.11552	-16.69512	-93.63089	1.415
Asta 203 (159-149)	233	minimi	190.00	-3.22081	-0.26477	-34.33885	-17.03767	-13.30351	1.919
Asta 203 (159-149)	233	minimi	380.00	-3.22081	-0.26477	-55.55916	-17.20588	-98.44675	2.422
Asta 204 (4-3)	234	massimi	0.00	-67.08639	250.95555	128.69179	17.10258	161.0474	312.034
Asta 204 (4-3)	234	massimi	66.00	-70.05638	250.95555	128.69179	17.10258	88.41232	163.742
Asta 204 (4-3)	234	massimi	132.00	-73.02638	250.95555	128.69179	17.10258	31.19975	104.187
Asta 204 (4-3)	234	minimi	0.00	-417.30857	-204.00757	-110.35409	-16.62753	-191.69659	-239.114
Asta 204 (4-3)	234	minimi	66.00	-420.27857	-204.00757	-110.35409	-16.62753	-106.95863	-121.808
Asta 204 (4-3)	234	minimi	132.00	-423.24857	-204.00757	-110.35409	-16.62753	-37.64318	-93.238
Asta 205 (9-8)	235	massimi	0.00	-64.835	201.93019	66.55402	18.18577	77.74827	236.676
Asta 205 (9-8)	235	massimi	66.00	-67.805	201.93019	66.55402	18.18577	54.05504	121.01
Asta 205 (9-8)	235	massimi	132.00	-70.775	201.93019	66.55402	18.18577	31.25301	93.722
Asta 205 (9-8)	235	minimi	0.00	-442.22212	-255.90276	-36.52539	-15.54434	-129.14193	-316.708
Asta 205 (9-8)	235	minimi	66.00	-445.19212	-255.90276	-36.52539	-15.54434	-85.6298	-165.419
Asta 205 (9-8)	235	minimi	132.00	-448.16212	-255.90276	-36.52539	-15.54434	-43.00888	-102.51
Asta 206 (14-13)	236	massimi	0.00	-166.66085	135.04998	198.25097	17.83464	267.61368	158.018
Asta 206 (14-13)	236	massimi	66.00	-169.63085	135.04998	198.25097	17.83464	145.82498	79.872
Asta 206 (14-13)	236	massimi	132.00	-172.60085	135.04998	198.25097	17.83464	42.93184	45.808
Asta 206 (14-13)	236	minimi	0.00	-394.18538	-71.07934	-191.5055	-15.89547	-278.71419	-105.395
Asta 206 (14-13)	236	minimi	66.00	-397.15538	-71.07934	-191.5055	-15.89547	-152.47348	-69.469
Asta 206 (14-13)	236	minimi	132.00	-400.12538	-71.07934	-191.5055	-15.89547	-45.12833	-77.626
Asta 207 (19-18)	237	massimi	0.00	-241.75877	129.36714	111.75228	19.18947	146.92808	220.676
Asta 207 (19-18)	237	massimi	66.00	-244.72877	129.36714	111.75228	19.18947	95.37777	167.876
Asta 207 (19-18)	237	massimi	132.00	-247.69877	129.36714	111.75228	19.18947	45.22911	126.316
Asta 207 (19-18)	237	minimi	0.00	-393.6345	-165.69865	-89.35358	-14.54064	-183.72483	-229.514
Asta 207 (19-18)	237	minimi	66.00	-396.6045	-165.69865	-89.35358	-14.54064	-117.39137	-152.735
Asta 207	237	minimi	132.00	-399.5745	-165.69865	-89.35358	-14.54064	-52.45957	-87.197

(19-18)									
Asta 208 (24-23)	238	massimi	0.00	-3.40596	94.18438	67.66209	3.07053	56.36738	109.711
Asta 208 (24-23)	238	massimi	66.00	-4.43721	94.18438	67.66209	3.07053	29.56378	47.706
Asta 208 (24-23)	238	massimi	132.00	-5.46846	94.18438	67.66209	3.07053	19.08196	6.179
Asta 208 (24-23)	238	minimi	0.00	-106.5998	-119.45691	-44.39577	-2.17798	-92.87304	-154.414
Asta 208 (24-23)	238	minimi	66.00	-107.63105	-119.45691	-44.39577	-2.17798	-50.71367	-75.729
Asta 208 (24-23)	238	minimi	132.00	-108.6623	-119.45691	-44.39577	-2.17798	-24.87608	-17.522
Asta 209 (29-28)	239	massimi	0.00	-203.83492	107.69611	194.03979	17.71548	275.08269	128.354
Asta 209 (29-28)	239	massimi	66.00	-206.80492	107.69611	194.03979	17.71548	149.9018	64.606
Asta 209 (29-28)	239	massimi	132.00	-209.77492	107.69611	194.03979	17.71548	43.22493	31.476
Asta 209 (29-28)	239	minimi	0.00	-373.79042	-48.73176	-195.58011	-16.01463	-272.77491	-75.663
Asta 209 (29-28)	239	minimi	66.00	-376.76042	-48.73176	-195.58011	-16.01463	-148.61063	-50.831
Asta 209 (29-28)	239	minimi	132.00	-379.73042	-48.73176	-195.58011	-16.01463	-42.95036	-56.618
Asta 210 (34-33)	240	massimi	0.00	-303.51489	142.36129	106.23044	18.08208	161.92366	203.209
Asta 210 (34-33)	240	massimi	66.00	-306.48489	142.36129	106.23044	18.08208	102.79998	128.732
Asta 210 (34-33)	240	massimi	132.00	-309.45489	142.36129	106.23044	18.08208	44.98576	67.487
Asta 210 (34-33)	240	minimi	0.00	-413.35308	-158.93096	-99.71605	-15.64803	-173.52248	-177.453
Asta 210 (34-33)	240	minimi	66.00	-416.32308	-158.93096	-99.71605	-15.64803	-110.0993	-92.041
Asta 210 (34-33)	240	minimi	132.00	-419.29308	-158.93096	-99.71605	-15.64803	-47.98558	-19.859
Asta 211 (39-38)	241	massimi	0.00	-19.17908	72.00539	89.24438	2.94534	85.1762	76.432
Asta 211 (39-38)	241	massimi	66.00	-20.21033	72.00539	89.24438	2.94534	43.0359	29.009
Asta 211 (39-38)	241	massimi	132.00	-21.24158	72.00539	89.24438	2.94534	19.28183	4.697
Asta 211 (39-38)	241	minimi	0.00	-144.94792	-106.07495	-68.16557	-2.30317	-118.59823	-136.197
Asta 211 (39-38)	241	minimi	66.00	-145.97917	-106.07495	-68.16557	-2.30317	-62.54592	-66.289
Asta 211 (39-38)	241	minimi	132.00	-147.01042	-106.07495	-68.16557	-2.30317	-24.87983	-19.491
Asta 212 (44-43)	242	massimi	0.00	-206.04825	117.99716	193.70043	16.41036	275.64715	124.107
Asta 212 (44-43)	242	massimi	66.00	-209.01825	117.99716	193.70043	16.41036	150.26635	64.777
Asta 212 (44-43)	242	massimi	132.00	-211.98825	117.99716	193.70043	16.41036	43.39232	37.523
Asta 212 (44-43)	242	minimi	0.00	-371.35792	-60.20147	-195.91455	-17.31975	-272.25463	-71.024
Asta 212 (44-43)	242	minimi	66.00	-374.32792	-60.20147	-195.91455	-17.31975	-148.33516	-49.84
Asta 212 (44-43)	242	minimi	132.00	-377.29792	-60.20147	-195.91455	-17.31975	-42.92246	-60.731
Asta 213 (49-48)	243	massimi	0.00	-298.82813	131.52232	102.91818	17.09807	167.54493	196.838
Asta 213 (49-48)	243	massimi	66.00	-301.79813	131.52232	102.91818	17.09807	106.18858	129.015
Asta 213 (49-48)	243	massimi	132.00	-304.76813	131.52232	102.91818	17.09807	46.12619	77.663
Asta 213 (49-48)	243	minimi	0.00	-427.66699	-141.55497	-102.83484	-16.63204	-168.68995	-161.027
Asta 213	243	minimi	66.00	-430.63699	-141.55497	-102.83484	-16.63204	-107.27859	-86.582

(49-48)									
Asta 213 (49-48)	243	minimi	132.00	-433.60699	-141.55497	-102.83484	-16.63204	-47.1612	-28.608
Asta 214 (54-53)	244	massimi	0.00	-16.07413	71.85651	189.3795	4.73829	114.77993	71.441
Asta 214 (54-53)	244	massimi	66.00	-17.10538	71.85651	189.3795	4.73829	27.0337	24.186
Asta 214 (54-53)	244	massimi	132.00	-18.13663	71.85651	189.3795	4.73829	97.29067	17.455
Asta 214 (54-53)	244	minimi	0.00	-151.57674	-112.17137	-133.18452	-0.51022	-153.59338	-131.01
Asta 214 (54-53)	244	minimi	66.00	-152.60799	-112.17137	-133.18452	-0.51022	-28.75846	-57.147
Asta 214 (54-53)	244	minimi	132.00	-153.63924	-112.17137	-133.18452	-0.51022	-61.92675	-23.808
Asta 215 (74-73)	245	massimi	0.00	-189.92291	139.78106	193.59773	16.31012	281.55917	137.915
Asta 215 (74-73)	245	massimi	66.00	-192.89291	139.78106	193.59773	16.31012	153.58422	75.017
Asta 215 (74-73)	245	massimi	132.00	-195.86291	139.78106	193.59773	16.31012	44.44606	45.198
Asta 215 (74-73)	245	minimi	0.00	-378.27363	-79.67829	-200.1311	-17.41999	-271.14696	-82.109
Asta 215 (74-73)	245	minimi	66.00	-381.24363	-79.67829	-200.1311	-17.41999	-147.48402	-58.879
Asta 215 (74-73)	245	minimi	132.00	-384.21363	-79.67829	-200.1311	-17.41999	-42.65789	-68.728
Asta 216 (79-78)	246	massimi	0.00	-281.08247	129.55208	99.48919	16.12793	178.12597	207.453
Asta 216 (79-78)	246	massimi	66.00	-284.05247	129.55208	99.48919	16.12793	112.45996	141.51
Asta 216 (79-78)	246	massimi	132.00	-287.02247	129.55208	99.48919	16.12793	48.10696	93.871
Asta 216 (79-78)	246	minimi	0.00	-425.92286	-132.31807	-109.39289	-17.60218	-163.20695	-157.311
Asta 216 (79-78)	246	minimi	66.00	-428.89286	-132.31807	-109.39289	-17.60218	-104.07738	-89.542
Asta 216 (79-78)	246	minimi	132.00	-431.86286	-132.31807	-109.39289	-17.60218	-46.26082	-40.078
Asta 217 (84-83)	247	massimi	0.00	-10.05985	73.75974	220.24392	3.14582	154.19131	70.436
Asta 217 (84-83)	247	massimi	66.00	-11.0911	73.75974	220.24392	3.14582	15.20342	22.867
Asta 217 (84-83)	247	massimi	132.00	-12.12235	73.75974	220.24392	3.14582	132.13444	35.30
Asta 217 (84-83)	247	minimi	0.00	-145.02	-131.65831	-210.9349	-2.10269	-158.8656	-138.938
Asta 217 (84-83)	247	minimi	66.00	-146.05125	-131.65831	-210.9349	-2.10269	-13.73377	-53.156
Asta 217 (84-83)	247	minimi	132.00	-147.0825	-131.65831	-210.9349	-2.10269	-124.52083	-27.377
Asta 218 (104-103)	248	massimi	0.00	-44.12678	192.87125	114.6174	17.73723	191.40792	262.856
Asta 218 (104-103)	248	massimi	66.00	-47.09678	192.87125	114.6174	17.73723	108.8615	140.139
Asta 218 (104-103)	248	massimi	132.00	-50.06678	192.87125	114.6174	17.73723	41.33642	68.262
Asta 218 (104-103)	248	minimi	0.00	-440.55156	-121.65391	-125.41991	-15.99288	-173.84939	-186.167
Asta 218 (104-103)	248	minimi	66.00	-443.52156	-121.65391	-125.41991	-15.99288	-98.43261	-110.453
Asta 218 (104-103)	248	minimi	132.00	-446.49156	-121.65391	-125.41991	-15.99288	-38.03719	-85.58
Asta 219	249	massimi	0.00	-114.57363	197.02259	41.49113	15.94084	127.43085	307.033

(109-108)									
Asta 219 (109-108)	249	massimi	66.00	-117.54363	197.02259	41.49113	15.94084	87.124	184.809
Asta 219 (109-108)	249	massimi	132.00	-120.51363	197.02259	41.49113	15.94084	47.22366	104.533
Asta 219 (109-108)	249	minimi	0.00	-510.5836	-204.50908	-61.32217	-17.78927	-97.3677	-276.645
Asta 219 (109-108)	249	minimi	66.00	-513.55359	-204.50908	-61.32217	-17.78927	-70.14934	-149.481
Asta 219 (109-108)	249	minimi	132.00	-516.52359	-204.50908	-61.32217	-17.78927	-43.33749	-64.263
Asta 220 (114-113)	250	massimi	0.00	-8.73509	70.31523	192.06693	2.54082	183.66347	77.932
Asta 220 (114-113)	250	massimi	66.00	-9.76634	70.31523	192.06693	2.54082	11.7922	31.844
Asta 220 (114-113)	250	massimi	132.00	-10.79759	70.31523	192.06693	2.54082	116.02346	9.773
Asta 220 (114-113)	250	minimi	0.00	-106.29352	-109.29284	-260.93513	-2.70769	-137.51313	-135.348
Asta 220 (114-113)	250	minimi	66.00	-107.32477	-109.29284	-260.93513	-2.70769	-11.09488	-63.535
Asta 220 (114-113)	250	minimi	132.00	-108.35602	-109.29284	-260.93513	-2.70769	-160.77915	-15.739
Asta 221 (119-118)	251	massimi	0.00	-17.15341	113.6788	70.08468	2.78327	54.64155	145.139
Asta 221 (119-118)	251	massimi	66.00	-18.18466	113.6788	70.08468	2.78327	27.76574	70.226
Asta 221 (119-118)	251	massimi	132.00	-19.21591	113.6788	70.08468	2.78327	12.22411	15.277
Asta 221 (119-118)	251	minimi	0.00	-137.03922	-89.32413	-41.78826	-2.46524	-107.02456	-105.072
Asta 221 (119-118)	251	minimi	66.00	-138.07047	-89.32413	-41.78826	-2.46524	-61.47312	-46.233
Asta 221 (119-118)	251	minimi	132.00	-139.10172	-89.32413	-41.78826	-2.46524	-27.25586	-7.358
Asta 222 (124-123)	252	massimi	0.00	37.27845	77.48816	56.45723	1.61517	66.40139	87.908
Asta 222 (124-123)	252	massimi	66.00	36.2472	77.48816	56.45723	1.61517	35.35686	36.886
Asta 222 (124-123)	252	massimi	132.00	35.21595	77.48816	56.45723	1.61517	15.5344	7.396
Asta 222 (124-123)	252	minimi	0.00	-151.53324	-105.65419	-48.03229	-3.63334	-80.92872	-133.735
Asta 222 (124-123)	252	minimi	66.00	-152.56449	-105.65419	-48.03229	-3.63334	-44.32373	-64.124
Asta 222 (124-123)	252	minimi	132.00	-153.59574	-105.65419	-48.03229	-3.63334	-18.94081	-16.044

Asta 223 (129-128)	253	massimi	0.00	-43.21979	75.32723	49.745	2.01917	114.45086	100.45
Asta 223 (129-128)	253	massimi	66.00	-44.25104	75.32723	49.745	2.01917	64.90088	50.964
Asta 223 (129-128)	253	massimi	132.00	-45.28229	75.32723	49.745	2.01917	28.14253	13.374
Asta 223 (129-128)	253	minimi	0.00	-96.7707	-62.2879	-76.26517	-3.22934	-63.96442	-79.428
Asta 223 (129-128)	253	minimi	66.00	-97.80195	-62.2879	-76.26517	-3.22934	-31.91776	-38.548
Asta 223 (129-128)	253	minimi	132.00	-98.8332	-62.2879	-76.26517	-3.22934	-12.66272	-9.564
Asta 224 (134-133)	254	massimi	0.00	-42.19166	93.01894	46.8981	2.57283	82.45541	117.951
Asta 224 (134-133)	254	massimi	66.00	-43.22291	93.01894	46.8981	2.57283	44.72463	56.76
Asta 224 (134-133)	254	massimi	132.00	-44.25416	93.01894	46.8981	2.57283	18.93869	11.952
Asta 224 (134-133)	254	minimi	0.00	-111.10679	-97.72669	-58.03113	-2.67568	-64.78848	-123.579
Asta 224 (134-133)	254	minimi	66.00	-112.13804	-97.72669	-58.03113	-2.67568	-34.40549	-59.281
Asta 224 (134-133)	254	minimi	132.00	-113.16929	-97.72669	-58.03113	-2.67568	-15.96735	-11.366
Asta 225 (139-138)	255	massimi	0.00	-61.70443	74.92826	70.24185	1.80032	99.4111	95.705
Asta 225 (139-138)	255	massimi	66.00	-62.73568	74.92826	70.24185	1.80032	51.74056	46.376
Asta 225 (139-138)	255	massimi	132.00	-63.76693	74.92826	70.24185	1.80032	19.62051	10.27
Asta 225 (139-138)	255	minimi	0.00	-112.07428	-71.79842	-73.17037	-3.4482	-94.41826	-88.639
Asta 225 (139-138)	255	minimi	66.00	-113.10553	-71.79842	-73.17037	-3.4482	-48.68054	-41.376
Asta 225 (139-138)	255	minimi	132.00	-114.13678	-71.79842	-73.17037	-3.4482	-18.49331	-7.335
Asta 226 (144-143)	256	massimi	0.00	0.08974	67.66286	152.81588	3.11461	162.97992	78.529
Asta 226 (144-143)	256	massimi	66.00	-0.94151	67.66286	152.81588	3.11461	27.53913	33.989
Asta 226 (144-143)	256	massimi	132.00	-1.97276	67.66286	152.81588	3.11461	81.9309	1.676
Asta 226 (144-143)	256	minimi	0.00	-94.87383	-79.09912	-205.36258	-2.13391	-120.61783	-104.181
Asta 226 (144-143)	256	minimi	66.00	-95.90508	-79.09912	-205.36258	-2.13391	-19.85786	-52.093
Asta 226 (144-143)	256	minimi	132.00	-96.93633	-79.09912	-205.36258	-2.13391	-108.93045	-12.232

143)									
Asta 227 (149-148)	257	massimi	0.00	29.02651	70.64458	53.36327	2.32584	90.47337	88.991
Asta 227 (149-148)	257	massimi	66.00	27.99526	70.64458	53.36327	2.32584	48.45118	42.619
Asta 227 (149-148)	257	massimi	132.00	26.96401	70.64458	53.36327	2.32584	23.22821	10.074
Asta 227 (149-148)	257	minimi	0.00	-80.06193	-76.94626	-66.95491	-2.67024	-69.17598	-99.777
Asta 227 (149-148)	257	minimi	66.00	-81.09318	-76.94626	-66.95491	-2.67024	-36.12427	-49.246
Asta 227 (149-148)	257	minimi	132.00	-82.12443	-76.94626	-66.95491	-2.67024	-19.87178	-12.541
Asta 228 (154-153)	258	massimi	0.00	-63.46838	86.92334	14.46222	3.40635	28.64298	104.805
Asta 228 (154-153)	258	massimi	66.00	-64.49963	86.92334	14.46222	3.40635	18.19963	47.571
Asta 228 (154-153)	258	massimi	132.00	-65.53088	86.92334	14.46222	3.40635	13.03384	8.132
Asta 228 (154-153)	258	minimi	0.00	-83.95411	-100.23695	-17.06075	-1.84217	-24.09977	-126.672
Asta 228 (154-153)	258	minimi	66.00	-84.98536	-100.23695	-17.06075	-1.84217	-15.37146	-60.65
Asta 228 (154-153)	258	minimi	132.00	-86.01661	-100.23695	-17.06075	-1.84217	-11.9207	-12.424
Asta 229 (159-158)	259	massimi	0.00	-51.76493	89.67616	10.5042	2.91949	21.59517	110.121
Asta 229 (159-158)	259	massimi	66.00	-52.79618	89.67616	10.5042	2.91949	14.84184	51.136
Asta 229 (159-158)	259	massimi	132.00	-53.82743	89.67616	10.5042	2.91949	13.59716	9.51
Asta 229 (159-158)	259	minimi	0.00	-91.92308	-101.58142	-12.17106	-2.07659	-21.65761	-129.961
Asta 229 (159-158)	259	minimi	66.00	-92.95433	-101.58142	-12.17106	-2.07659	-16.00441	-63.119
Asta 229 (159-158)	259	minimi	132.00	-93.98558	-101.58142	-12.17106	-2.07659	-15.85986	-13.636
Asta 230 (5-10)	260	massimi	0.00	-64.12013	0.54997	237.30359	20.08434	645.16351	3.188
Asta 230 (5-10)	260	massimi	630.00	-64.12013	0.54997	121.45289	20.08434	232.79557	-0.277
Asta 230 (5-10)	260	massimi	1260.00	-64.12013	0.54997	5.60219	20.08434	632.96157	-3.742
Asta 230 (5-10)	260	minimi	0.00	-64.12013	0.54997	-7.58809	-18.37431	-897.34488	3.188
Asta 230 (5-10)	260	minimi	630.00	-64.12013	0.54997	-123.43879	-18.37431	232.37131	-0.277
Asta 230 (5-10)	260	minimi	1260.00	-64.12013	0.54997	-239.28949	-18.37431	-910.16524	-3.742
Asta 231 (15-5)	261	massimi	0.00	-8.80993	-1.61298	56.49089	-0.86071	122.82777	-3.501
Asta 231 (15-5)	261	massimi	237.00	-8.80993	-1.61298	51.15839	-0.86071	8.16719	0.322

Asta 231 (15-5)	261	massimi	474.00	-8.80993	-1.61298	45.82589	-0.86071	123.06063	4.145
Asta 231 (15-5)	261	minimi	0.00	-8.80993	-1.61298	-50.69498	-3.73011	-119.43201	-3.501
Asta 231 (15-5)	261	minimi	237.00	-8.80993	-1.61298	-56.02748	-3.73011	-3.67315	0.322
Asta 231 (15-5)	261	minimi	474.00	-8.80993	-1.61298	-61.35998	-3.73011	-142.74436	4.145
Asta 232 (5-165)	262	massimi	0.00	0.00	0.00	27.1823	0.00	-13.84708	0.00
Asta 232 (5-165)	262	massimi	65.00	0.00	0.00	14.571	0.00	-2.82487	0.00
Asta 232 (5-165)	262	massimi	130.00	0.00	0.00	1.9597	0.00	0.00	0.00
Asta 232 (5-165)	262	minimi	0.00	0.00	0.00	23.2629	0.00	-18.9423	0.00
Asta 232 (5-165)	262	minimi	65.00	0.00	0.00	10.6516	0.00	-5.37248	0.00
Asta 232 (5-165)	262	minimi	130.00	0.00	0.00	-1.9597	0.00	0.00	0.00
Asta 233 (20-10)	263	massimi	0.00	-11.68797	-1.26828	54.46097	2.47787	131.23045	-2.729
Asta 233 (20-10)	263	massimi	237.00	-11.68797	-1.26828	49.12847	2.47787	8.31763	0.277
Asta 233 (20-10)	263	massimi	474.00	-11.68797	-1.26828	43.79597	2.47787	118.42971	3.283
Asta 233 (20-10)	263	minimi	0.00	-11.68797	-1.26828	-54.42831	0.32648	-114.43953	-2.729
Asta 233 (20-10)	263	minimi	237.00	-11.68797	-1.26828	-59.76081	0.32648	-4.08734	0.277
Asta 233 (20-10)	263	minimi	474.00	-11.68797	-1.26828	-65.09331	0.32648	-152.0361	3.283
Asta 234 (10-175)	264	massimi	0.00	0.00	0.00	27.02934	0.00	-14.04592	0.00
Asta 234 (10-175)	264	massimi	65.00	0.00	0.00	14.41804	0.00	-2.92429	0.00
Asta 234 (10-175)	264	massimi	130.00	0.00	0.00	1.80674	0.00	0.00	0.00
Asta 234 (10-175)	264	minimi	0.00	0.00	0.00	23.41586	0.00	-18.74346	0.00
Asta 234 (10-175)	264	minimi	65.00	0.00	0.00	10.80456	0.00	-5.27306	0.00
Asta 234 (10-175)	264	minimi	130.00	0.00	0.00	-1.80674	0.00	0.00	0.00
Asta 235 (15-20)	265	massimi	0.00	-32.598	0.95612	275.96859	17.36057	447.24017	5.811
Asta 235 (15-20)	265	massimi	630.00	-32.598	0.95612	95.1082	17.36057	428.33575	-0.213
Asta 235 (15-20)	265	massimi	1260.00	-32.598	0.95612	-85.7522	17.36057	457.78081	-6.236
Asta 235 (15-20)	265	minimi	0.00	-32.598	0.95612	83.64187	-15.09651	-740.58349	5.811
Asta 235 (15-20)	265	minimi	630.00	-32.598	0.95612	-97.21853	-15.09651	404.44632	-0.213
Asta 235 (15-20)	265	minimi	1260.00	-32.598	0.95612	-278.07893	-15.09651	-777.71435	-6.236
Asta 236 (30-15)	266	massimi	0.00	-13.28992	-1.42866	57.00988	0.67399	116.12037	-3.677
Asta 236 (30-15)	266	massimi	237.00	-13.28992	-1.42866	51.67738	0.67399	2.87099	-0.291
Asta 236 (30-15)	266	massimi	474.00	-13.28992	-1.42866	46.34488	0.67399	118.64896	3.095
Asta 236 (30-15)	266	minimi	0.00	-13.28992	-1.42866	-45.2692	-1.42158	-126.30218	-3.677
Asta 236 (30-15)	266	minimi	237.00	-13.28992	-1.42866	-50.6017	-1.42158	2.13459	-0.291
Asta 236 (30-15)	266	minimi	474.00	-13.28992	-1.42866	-55.9342	-1.42158	-123.73206	3.095
Asta 237 (15-170)	267	massimi	0.00	0.00	0.00	39.68221	0.00	-21.60872	0.00

Asta 237 (15-170)	267	massimi	65.00	0.00	0.00	20.91411	0.00	-4.70473	0.00
Asta 237 (15-170)	267	massimi	130.00	0.00	0.00	2.14601	0.00	0.00	0.00
Asta 237 (15-170)	267	minimi	0.00	0.00	0.00	35.39019	0.00	-27.18834	0.00
Asta 237 (15-170)	267	minimi	65.00	0.00	0.00	16.62209	0.00	-7.49454	0.00
Asta 237 (15-170)	267	minimi	130.00	0.00	0.00	-2.14601	0.00	0.00	0.00
Asta 238 (35-20)	268	massimi	0.00	-19.53349	-1.20971	55.0439	0.96306	118.24765	-3.271
Asta 238 (35-20)	268	massimi	237.00	-19.53349	-1.20971	49.7114	0.96306	3.17268	-0.404
Asta 238 (35-20)	268	massimi	474.00	-19.53349	-1.20971	44.3789	0.96306	114.09778	2.463
Asta 238 (35-20)	268	minimi	0.00	-19.53349	-1.20971	-45.98921	-1.35469	-121.53463	-3.271
Asta 238 (35-20)	268	minimi	237.00	-19.53349	-1.20971	-51.32171	-1.35469	2.36193	-0.404
Asta 238 (35-20)	268	minimi	474.00	-19.53349	-1.20971	-56.65421	-1.35469	-125.01762	2.463
Asta 239 (20-180)	269	massimi	0.00	0.00	0.00	40.18628	0.00	-20.95343	0.00
Asta 239 (20-180)	269	massimi	65.00	0.00	0.00	21.41818	0.00	-4.37708	0.00
Asta 239 (20-180)	269	massimi	130.00	0.00	0.00	2.65008	0.00	0.00	0.00
Asta 239 (20-180)	269	minimi	0.00	0.00	0.00	34.88612	0.00	-27.84363	0.00
Asta 239 (20-180)	269	minimi	65.00	0.00	0.00	16.11802	0.00	-7.82218	0.00
Asta 239 (20-180)	269	minimi	130.00	0.00	0.00	-2.65008	0.00	0.00	0.00
Asta 240 (30-35)	270	massimi	0.00	-27.51041	0.47717	253.06783	17.05967	321.25996	2.955
Asta 240 (30-35)	270	massimi	630.00	-27.51041	0.47717	72.20744	17.05967	430.98826	-0.051
Asta 240 (30-35)	270	massimi	1260.00	-27.51041	0.47717	-108.65296	17.05967	316.18013	-3.057
Asta 240 (30-35)	270	minimi	0.00	-27.51041	0.47717	104.97977	-15.90693	-593.63375	2.955
Asta 240 (30-35)	270	minimi	630.00	-27.51041	0.47717	-75.88063	-15.90693	412.91732	-0.051
Asta 240 (30-35)	270	minimi	1260.00	-27.51041	0.47717	-256.74103	-15.90693	-634.83618	-3.057
Asta 241 (45-30)	271	massimi	0.00	-12.56967	-0.01211	56.92695	1.02377	115.94306	-0.647
Asta 241 (45-30)	271	massimi	237.00	-12.56967	-0.01211	51.59445	1.02377	2.18771	-0.619
Asta 241 (45-30)	271	massimi	474.00	-12.56967	-0.01211	46.26195	1.02377	118.12623	-0.59
Asta 241 (45-30)	271	minimi	0.00	-12.56967	-0.01211	-45.33918	-1.1462	-126.43147	-0.647
Asta 241 (45-30)	271	minimi	237.00	-12.56967	-0.01211	-50.67168	-1.1462	2.14887	-0.619
Asta 241 (45-30)	271	minimi	474.00	-12.56967	-0.01211	-56.00418	-1.1462	-124.24072	-0.59
Asta 242 (30-190)	272	massimi	0.00	0.00	0.00	39.16785	0.00	-22.27739	0.00
Asta 242 (30-190)	272	massimi	65.00	0.00	0.00	20.39975	0.00	-5.03906	0.00
Asta 242 (30-190)	272	massimi	130.00	0.00	0.00	1.63165	0.00	0.00	0.00
Asta 242 (30-190)	272	minimi	0.00	0.00	0.00	35.90455	0.00	-26.51967	0.00
Asta 242 (30-190)	272	minimi	65.00	0.00	0.00	17.13645	0.00	-7.1602	0.00
Asta 242 (30-190)	272	minimi	130.00	0.00	0.00	-1.63165	0.00	0.00	0.00

Asta 243 (50-35)	273	massimi	0.00	-19.42312	0.16188	56.70487	1.10827	115.6308	-0.169
Asta 243 (50-35)	273	massimi	237.00	-19.42312	0.16188	51.37237	1.10827	2.41988	-0.553
Asta 243 (50-35)	273	massimi	474.00	-19.42312	0.16188	46.03987	1.10827	117.78918	-0.936
Asta 243 (50-35)	273	minimi	0.00	-19.42312	0.16188	-45.14938	-1.23351	-125.71584	-0.169
Asta 243 (50-35)	273	minimi	237.00	-19.42312	0.16188	-50.48188	-1.23351	2.24356	-0.553
Asta 243 (50-35)	273	minimi	474.00	-19.42312	0.16188	-55.81438	-1.23351	-123.65332	-0.936
Asta 244 (35-185)	274	massimi	0.00	0.00	0.00	40.28959	0.00	-20.81912	0.00
Asta 244 (35-185)	274	massimi	65.00	0.00	0.00	21.52149	0.00	-4.30993	0.00
Asta 244 (35-185)	274	massimi	130.00	0.00	0.00	2.75339	0.00	0.00	0.00
Asta 244 (35-185)	274	minimi	0.00	0.00	0.00	34.78281	0.00	-27.97794	0.00
Asta 244 (35-185)	274	minimi	65.00	0.00	0.00	16.01471	0.00	-7.88934	0.00
Asta 244 (35-185)	274	minimi	130.00	0.00	0.00	-2.75339	0.00	0.00	0.00
Asta 245 (45-50)	275	massimi	0.00	-27.51472	-0.32735	250.00204	16.58876	305.08391	-2.208
Asta 245 (45-50)	275	massimi	630.00	-27.51472	-0.32735	69.14164	16.58876	430.42919	-0.146
Asta 245 (45-50)	275	massimi	1260.00	-27.51472	-0.32735	-111.71876	16.58876	296.26603	1.916
Asta 245 (45-50)	275	minimi	0.00	-27.51472	-0.32735	107.62866	-16.12264	-574.91929	-2.208
Asta 245 (45-50)	275	minimi	630.00	-27.51472	-0.32735	-73.23174	-16.12264	413.38832	-0.146
Asta 245 (45-50)	275	minimi	1260.00	-27.51472	-0.32735	-254.09213	-16.12264	-617.63663	1.916
Asta 246 (75-45)	276	massimi	0.00	-10.84163	0.98426	56.76437	1.22686	115.96887	2.038
Asta 246 (75-45)	276	massimi	237.00	-10.84163	0.98426	51.43187	1.22686	2.57613	-0.295
Asta 246 (75-45)	276	massimi	474.00	-10.84163	0.98426	46.09937	1.22686	118.0823	-2.628
Asta 246 (75-45)	276	minimi	0.00	-10.84163	0.98426	-45.37735	-0.97916	-125.70508	2.038
Asta 246 (75-45)	276	minimi	237.00	-10.84163	0.98426	-50.70985	-0.97916	2.03687	-0.295
Asta 246 (75-45)	276	minimi	474.00	-10.84163	0.98426	-56.04235	-0.97916	-124.39615	-2.628
Asta 247 (45-195)	277	massimi	0.00	0.00	0.00	39.28318	0.00	-22.12746	0.00
Asta 247 (45-195)	277	massimi	65.00	0.00	0.00	20.51508	0.00	-4.9641	0.00
Asta 247 (45-195)	277	massimi	130.00	0.00	0.00	1.74698	0.00	0.00	0.00
Asta 247 (45-195)	277	minimi	0.00	0.00	0.00	35.78922	0.00	-26.6696	0.00
Asta 247 (45-195)	277	minimi	65.00	0.00	0.00	17.02112	0.00	-7.23517	0.00
Asta 247 (45-195)	277	minimi	130.00	0.00	0.00	-1.74698	0.00	0.00	0.00
Asta 248 (80-50)	278	massimi	0.00	-17.09405	1.23433	56.78786	1.18597	113.88423	2.619
Asta 248 (80-50)	278	massimi	237.00	-17.09405	1.23433	51.45536	1.18597	2.85274	-0.306
Asta 248 (80-50)	278	massimi	474.00	-17.09405	1.23433	46.12286	1.18597	118.44405	-3.231
Asta 248 (80-50)	278	minimi	0.00	-17.09405	1.23433	-44.48208	-1.20349	-125.45446	2.619
Asta 248 (80-50)	278	minimi	237.00	-17.09405	1.23433	-49.81458	-1.20349	2.10373	-0.306

Asta 248 (80-50)	278	minimi	474.00	-17.09405	1.23433	-55.14708	-1.20349	-122.23695	-3.231
Asta 249 (50-200)	279	massimi	0.00	0.00	0.00	40.70421	0.00	-20.28012	0.00
Asta 249 (50-200)	279	massimi	65.00	0.00	0.00	21.93611	0.00	-4.04043	0.00
Asta 249 (50-200)	279	massimi	130.00	0.00	0.00	3.16801	0.00	0.00	0.00
Asta 249 (50-200)	279	minimi	0.00	0.00	0.00	34.36819	0.00	-28.51694	0.00
Asta 249 (50-200)	279	minimi	65.00	0.00	0.00	15.60009	0.00	-8.15884	0.00
Asta 249 (50-200)	279	minimi	130.00	0.00	0.00	-3.16801	0.00	0.00	0.00
Asta 250 (75-80)	280	massimi	0.00	-29.83991	-0.74236	253.20972	16.46688	315.68285	-4.807
Asta 250 (75-80)	280	massimi	630.00	-29.83991	-0.74236	72.34932	16.46688	426.34598	-0.13
Asta 250 (75-80)	280	massimi	1260.00	-29.83991	-0.74236	-108.51108	16.46688	312.39582	4.547
Asta 250 (75-80)	280	minimi	0.00	-29.83991	-0.74236	105.27824	-16.72226	-599.20712	-4.807
Asta 250 (75-80)	280	minimi	630.00	-29.83991	-0.74236	-75.58216	-16.72226	409.18338	-0.13
Asta 250 (75-80)	280	minimi	1260.00	-29.83991	-0.74236	-256.44255	-16.72226	-636.65384	4.547
Asta 251 (105-75)	281	massimi	0.00	-6.37229	1.48539	62.41896	2.85568	128.76235	4.031
Asta 251 (105-75)	281	massimi	237.00	-6.37229	1.48539	57.08646	2.85568	8.34649	0.511
Asta 251 (105-75)	281	massimi	474.00	-6.37229	1.48539	51.75396	2.85568	125.17213	-3.01
Asta 251 (105-75)	281	minimi	0.00	-6.37229	1.48539	-48.15562	0.89415	-145.41934	4.031
Asta 251 (105-75)	281	minimi	237.00	-6.37229	1.48539	-53.48812	0.89415	-3.8374	0.511
Asta 251 (105-75)	281	minimi	474.00	-6.37229	1.48539	-58.82062	0.89415	-124.773	-3.01
Asta 252 (75-205)	282	massimi	0.00	0.00	0.00	39.58141	0.00	-21.73976	0.00
Asta 252 (75-205)	282	massimi	65.00	0.00	0.00	20.81331	0.00	-4.77025	0.00
Asta 252 (75-205)	282	massimi	130.00	0.00	0.00	2.04521	0.00	0.00	0.00
Asta 252 (75-205)	282	minimi	0.00	0.00	0.00	35.49099	0.00	-27.0573	0.00
Asta 252 (75-205)	282	minimi	65.00	0.00	0.00	16.72289	0.00	-7.42902	0.00
Asta 252 (75-205)	282	minimi	130.00	0.00	0.00	-2.04521	0.00	0.00	0.00
Asta 253 (110-80)	283	massimi	0.00	-10.08147	1.15328	65.12934	-0.38041	126.14274	2.749
Asta 253 (110-80)	283	massimi	237.00	-10.08147	1.15328	59.79684	-0.38041	8.64612	0.016
Asta 253 (110-80)	283	massimi	474.00	-10.08147	1.15328	54.46434	-0.38041	131.04897	-2.717
Asta 253 (110-80)	283	minimi	0.00	-10.08147	1.15328	-46.91237	-2.49151	-152.38854	2.749
Asta 253 (110-80)	283	minimi	237.00	-10.08147	1.15328	-52.24487	-2.49151	-4.35572	0.016
Asta 253 (110-80)	283	minimi	474.00	-10.08147	1.15328	-57.57737	-2.49151	-121.49842	-2.717
Asta 254 (80-210)	284	massimi	0.00	0.00	0.00	40.72406	0.00	-20.25431	0.00
Asta 254 (80-210)	284	massimi	65.00	0.00	0.00	21.95596	0.00	-4.02752	0.00
Asta 254 (80-210)	284	massimi	130.00	0.00	0.00	3.18787	0.00	0.00	0.00
Asta 254 (80-210)	284	minimi	0.00	0.00	0.00	34.34833	0.00	-28.54275	0.00

Asta 254 (80-210)	284	minimi	65.00	0.00	0.00	15.58023	0.00	-8.17174	0.00
Asta 254 (80-210)	284	minimi	130.00	0.00	0.00	-3.18787	0.00	0.00	0.00
Asta 255 (105-110)	285	massimi	0.00	-52.91577	-0.38609	204.25363	19.92908	400.29287	-1.854
Asta 255 (105-110)	285	massimi	630.00	-52.91577	-0.38609	82.54393	19.92908	261.83494	0.579
Asta 255 (105-110)	285	massimi	1260.00	-52.91577	-0.38609	-39.16577	19.92908	397.02439	3.011
Asta 255 (105-110)	285	minimi	0.00	-52.91577	-0.38609	36.07337	-19.72505	-643.19432	-1.854
Asta 255 (105-110)	285	minimi	630.00	-52.91577	-0.38609	-85.63633	-19.72505	242.55261	0.579
Asta 255 (105-110)	285	minimi	1260.00	-52.91577	-0.38609	-207.34603	-19.72505	-678.89004	3.011
Asta 256 (105-215)	286	massimi	0.00	0.00	0.00	26.95001	0.00	-14.14905	0.00
Asta 256 (105-215)	286	massimi	65.00	0.00	0.00	14.33871	0.00	-2.97585	0.00
Asta 256 (105-215)	286	massimi	130.00	0.00	0.00	1.72741	0.00	0.00	0.00
Asta 256 (105-215)	286	minimi	0.00	0.00	0.00	23.49519	0.00	-18.64033	0.00
Asta 256 (105-215)	286	minimi	65.00	0.00	0.00	10.88389	0.00	-5.22149	0.00
Asta 256 (105-215)	286	minimi	130.00	0.00	0.00	-1.72741	0.00	0.00	0.00
Asta 257 (110-220)	287	massimi	0.00	0.00	0.00	27.25294	0.00	-13.75524	0.00
Asta 257 (110-220)	287	massimi	65.00	0.00	0.00	14.64164	0.00	-2.77895	0.00
Asta 257 (110-220)	287	massimi	130.00	0.00	0.00	2.03034	0.00	0.00	0.00
Asta 257 (110-220)	287	minimi	0.00	0.00	0.00	23.19226	0.00	-19.03414	0.00
Asta 257 (110-220)	287	minimi	65.00	0.00	0.00	10.58096	0.00	-5.4184	0.00
Asta 257 (110-220)	287	minimi	130.00	0.00	0.00	-2.03034	0.00	0.00	0.00
Asta 258 (5-4)	288	massimi	0.00	-15.78411	345.70825	115.50015	14.32903	131.11491	882.414
Asta 258 (5-4)	288	massimi	145.00	-22.30911	345.70825	115.50015	14.32903	26.11966	385.816
Asta 258 (5-4)	288	massimi	290.00	-28.83411	345.70825	115.50015	14.32903	183.70998	84.754
Asta 258 (5-4)	288	minimi	0.00	-279.91068	-220.69393	-98.98023	-12.41548	-152.50867	-658.432
Asta 258 (5-4)	288	minimi	145.00	-286.43568	-220.69393	-98.98023	-12.41548	-23.55953	-343.103
Asta 258 (5-4)	288	minimi	290.00	-292.96068	-220.69393	-98.98023	-12.41548	-157.19597	-223.313
Asta 259	289	massimi	0.00	-30.76867	218.05723	126.36763	12.91331	124.39237	646.873

(10-9)									
Asta 259 (10-9)	289	massimi	145.00	-37.29367	218.05723	126.36763	12.91331	28.81751	335.38
Asta 259 (10-9)	289	massimi	290.00	-43.81867	218.05723	126.36763	12.91331	210.36759	219.968
Asta 259 (10-9)	289	minimi	0.00	-274.66117	-348.83406	-101.89176	-13.83119	-156.28872	-894.092
Asta 259 (10-9)	289	minimi	145.00	-281.18617	-348.83406	-101.89176	-13.83119	-25.22385	-392.972
Asta 259 (10-9)	289	minimi	290.00	-287.71117	-348.83406	-101.89176	-13.83119	-171.2839	-87.934
Asta 260 (15-14)	290	massimi	0.00	-117.7444	222.63806	184.71316	14.15746	244.59383	711.307
Asta 260 (15-14)	290	massimi	145.00	-124.2694	222.63806	184.71316	14.15746	18.24538	391.794
Asta 260 (15-14)	290	massimi	290.00	-130.7944	222.63806	184.71316	14.15746	280.58396	156.262
Asta 260 (15-14)	290	minimi	0.00	-332.32369	-157.07342	-177.66541	-12.58704	-255.33674	-470.604
Asta 260 (15-14)	290	minimi	145.00	-338.84869	-157.07342	-177.66541	-12.58704	-18.76905	-246.159
Asta 260 (15-14)	290	minimi	290.00	-345.37369	-157.07342	-177.66541	-12.58704	-270.8884	-105.696
Asta 261 (20-19)	291	massimi	0.00	-111.02989	195.22481	192.56382	12.32782	233.62748	481.144
Asta 261 (20-19)	291	massimi	145.00	-117.55489	195.22481	192.56382	12.32782	20.60435	200.646
Asta 261 (20-19)	291	massimi	290.00	-124.07989	195.22481	192.56382	12.32782	299.41099	47.499
Asta 261 (20-19)	291	minimi	0.00	-340.1816	-260.30368	-174.96053	-14.41668	-259.07418	-749.084
Asta 261 (20-19)	291	minimi	145.00	-346.7066	-260.30368	-174.96053	-14.41668	-20.52627	-374.222
Asta 261 (20-19)	291	minimi	290.00	-353.2316	-260.30368	-174.96053	-14.41668	-273.80815	-126.711
Asta 262 (30-29)	292	massimi	0.00	-144.20136	166.93774	180.02184	13.50387	251.44092	567.052
Asta 262 (30-29)	292	massimi	145.00	-150.72636	166.93774	180.02184	13.50387	18.93402	327.142
Asta 262 (30-29)	292	massimi	290.00	-157.25136	166.93774	180.02184	13.50387	273.83972	129.593
Asta 262 (30-29)	292	minimi	0.00	-310.40155	-109.08382	-182.4167	-13.24064	-248.52634	-344.10
Asta 262 (30-29)	292	minimi	145.00	-316.92655	-109.08382	-182.4167	-13.24064	-19.49199	-188.079
Asta 262 (30-29)	292	minimi	290.00	-323.45155	-109.08382	-182.4167	-13.24064	-277.87024	-74.418
Asta 263 (35-34)	293	massimi	0.00	-139.56694	139.61255	183.47072	12.64965	243.95755	337.78
Asta 263 (35-34)	293	massimi	145.00	-146.09194	139.61255	183.47072	12.64965	21.25611	137.144
Asta 263 (35-34)	293	massimi	290.00	-152.61694	139.61255	183.47072	12.64965	286.74671	-4.304
Asta 263 (35-34)	293	minimi	0.00	-319.72866	-191.89018	-182.73712	-14.09486	-245.38196	-607.905
Asta 263 (35-34)	293	minimi	145.00	-326.25366	-191.89018	-182.73712	-14.09486	-21.61681	-331.467
Asta 263 (35-34)	293	minimi	290.00	-332.77866	-191.89018	-182.73712	-14.09486	-286.0437	-114.216
Asta 264 (45-44)	294	massimi	0.00	-146.45123	167.58144	179.8331	13.60021	251.83482	548.253
Asta 264 (45-44)	294	massimi	145.00	-152.97623	167.58144	179.8331	13.60021	19.04597	307.741
Asta 264 (45-44)	294	massimi	290.00	-159.50123	167.58144	179.8331	13.60021	273.69042	125.214
Asta 264 (45-44)	294	minimi	0.00	-307.78262	-110.55926	-182.63448	-13.1443	-248.12638	-327.585
Asta 264 (45-44)	294	minimi	145.00	-314.30762	-110.55926	-182.63448	-13.1443	-19.39953	-169.755
Asta 264	294	minimi	290.00	-320.83262	-110.55926	-182.63448	-13.1443	-278.10597	-69.91

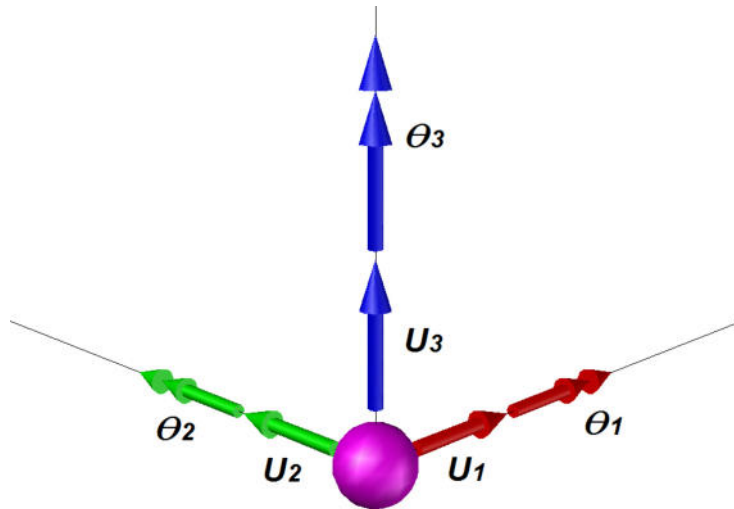
(45-44)									
Asta 265 (50-49)	295	massimi	0.00	-138.02244	138.11058	180.65037	12.22617	248.39625	317.358
Asta 265 (50-49)	295	massimi	145.00	-144.54744	138.11058	180.65037	12.22617	20.93358	118.891
Asta 265 (50-49)	295	massimi	290.00	-151.07244	138.11058	180.65037	12.22617	282.31193	5.208
Asta 265 (50-49)	295	minimi	0.00	-323.44056	-190.99514	-185.9632	-14.51833	-241.63798	-590.039
Asta 265 (50-49)	295	minimi	145.00	-329.96556	-190.99514	-185.9632	-14.51833	-21.87891	-314.89
Asta 265 (50-49)	295	minimi	290.00	-336.49056	-190.99514	-185.9632	-14.51833	-290.96086	-124.524
Asta 266 (75-74)	296	massimi	0.00	-138.98739	185.89835	179.71064	13.13136	258.49085	570.282
Asta 266 (75-74)	296	massimi	145.00	-145.51239	185.89835	179.71064	13.13136	18.15455	305.06
Asta 266 (75-74)	296	massimi	290.00	-152.03739	185.89835	179.71064	13.13136	273.31182	137.559
Asta 266 (75-74)	296	minimi	0.00	-313.02665	-125.21627	-187.16461	-13.61314	-248.10014	-339.057
Asta 266 (75-74)	296	minimi	145.00	-319.55165	-125.21627	-187.16461	-13.61314	-18.5721	-161.824
Asta 266 (75-74)	296	minimi	290.00	-326.07665	-125.21627	-187.16461	-13.61314	-284.53762	-82.312
Asta 267 (80-79)	297	massimi	0.00	-129.95385	151.16484	178.26286	12.58287	260.17194	334.457
Asta 267 (80-79)	297	massimi	145.00	-136.47885	151.16484	178.26286	12.58287	19.57494	118.434
Asta 267 (80-79)	297	massimi	290.00	-143.00385	151.16484	178.26286	12.58287	277.70862	47.157
Asta 267 (80-79)	297	minimi	0.00	-325.491	-211.00676	-193.77273	-14.16163	-239.30655	-607.063
Asta 267 (80-79)	297	minimi	145.00	-332.016	-211.00676	-193.77273	-14.16163	-21.19885	-304.27
Asta 267 (80-79)	297	minimi	290.00	-338.541	-211.00676	-193.77273	-14.16163	-301.82185	-146.222
Asta 268 (105-104)	298	massimi	0.00	-54.95916	268.2214	105.13641	11.19497	153.89614	627.619
Asta 268 (105-104)	298	massimi	145.00	-61.48416	268.2214	105.13641	11.19497	25.4905	249.986
Asta 268 (105-104)	298	massimi	290.00	-68.00916	268.2214	105.13641	11.19497	168.71035	113.294
Asta 268 (105-104)	298	minimi	0.00	-250.07638	-165.36063	-117.10882	-15.54953	-137.44316	-413.757
Asta 268 (105-104)	298	minimi	145.00	-256.60138	-165.36063	-117.10882	-15.54953	-26.39752	-185.272
Asta 268 (105-104)	298	minimi	290.00	-263.12638	-165.36063	-117.10882	-15.54953	-186.97735	-197.729
Asta 269 (110-109)	299	massimi	0.00	-48.36749	188.30348	108.55786	13.63386	157.68987	411.11
Asta 269 (110-109)	299	massimi	145.00	-54.89249	188.30348	108.55786	13.63386	27.60606	148.705
Asta 269 (110-109)	299	massimi	290.00	-61.41749	188.30348	108.55786	13.63386	183.75523	211.876
Asta 269 (110-109)	299	minimi	0.00	-266.80647	-296.44158	-129.49297	-13.11064	-131.24005	-663.058
Asta 269 (110-109)	299	minimi	145.00	-273.33147	-296.44158	-129.49297	-13.11064	-31.51216	-243.853

Asta 269 (110-109)	299	minimi	290.00	-279.85647	-296.44158	-129.49297	-13.11064	-218.01725	-150.224
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1.4.3 Stato limite danno (SLD)

1.4.3.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	3.378767	2.370851	-1.938504	0.004845383438108	0.00664613398706	0.000130859773957
1	minimi	-3.375853	-2.34455	-11.577226	-0.004578389211825	-0.006457406336385	-0.000134380647314
2	massimi	1.884371	1.34128	-1.938504	0.004845383438023	0.006646133986917	0.000130859773897
2	minimi	-1.923921	-1.254905	-11.577226	-0.004578389211744	-0.006457406336249	-0.000134380647253
3	massimi	1.785683	1.457464	5.841419	0.004632884642696	0.006348355203943	0.000107765668769
3	minimi	-1.828003	-1.368162	-19.081023	-0.004470868170473	-0.005981468913178	-0.00011041776261
4	massimi	1.783347	1.205244	-3.112739	0.004645026911819	0.006270934650685	0.000114370309156
4	minimi	-1.826037	-1.123156	-10.574962	-0.004484559960894	-0.00627947766402	-0.000117509077325
5	massimi	1.961189	1.206403	4.251918	0.004683306588863	0.006256750605713	0.000110929739833
5	minimi	-1.997074	-1.124416	-17.374988	-0.004329757477714	-0.006262814244734	-0.000114161399188
6	massimi	1.958804	1.456206	5.085683	0.004695695718304	0.006362619772262	0.000104320579328
6	minimi	-1.995058	-1.366804	-17.760655	-0.004343696128453	-0.00599821285581	-0.000107065564354
7	massimi	23.053884	20.736772	-1.968426	0.005771367000456	0.007180979426067	0.000887838704353
7	minimi	-22.586138	-20.854773	-11.890261	-0.005357318996058	-0.006740148775889	-0.000862909796373
8	massimi	38.971233	33.791292	-1.992468	0.008014038173762	0.009558509285176	0.001520490349813
8	minimi	-38.19784	-33.965079	-12.042165	-0.008101681287871	-0.009503254917287	-0.001477067956994
9	massimi	50.64889	41.780036	-2.007752	0.005509114328919	0.008793649811714	0.001968815493812
9	minimi	-49.632381	-42.150701	-12.146893	-0.004991517381958	-0.008396279433231	-0.001912408313764
10	massimi	68.428831	59.255116	-2.024533	0.006083145944132	0.002333370604431	0.00269119227613
10	minimi	-66.720265	-60.03059	-12.29613	-0.005749099425333	-0.001170430760498	-0.002519874289822
11	massimi	3.426698	2.091689	-2.072321	0.004190539940156	0.006603224559351	0.000083074780005
11	minimi	-3.330997	-1.98193	-12.194523	-0.003910763845491	-0.006513650509985	-0.000072234851076
12	massimi	1.941944	1.21291	-2.072321	0.004190539940083	0.006603224559211	0.000083074779967
12	minimi	-1.866397	-1.040201	-12.194523	-0.003910763845422	-0.006513650509846	-0.000072234851043
13	massimi	1.874043	1.171588	-2.549973	0.004008876175988	0.00641884797523	0.000072442515163
13	minimi	-1.788721	-1.011402	-11.550533	-0.003841102533934	-0.006134080138427	-0.000062987330246
14	massimi	1.874633	1.240406	4.412748	0.004003347658934	0.006118949975092	0.000070099766407
14	minimi	-1.790051	-1.057894	-18.72593	-0.003836309450937	-0.006233640660183	-0.000061617697814
15	massimi	1.984084	1.239805	6.206125	0.004064426007275	0.006124028199482	0.000066442548323
15	minimi	-1.918577	-1.0571	-19.927644	-0.003692840492485	-0.006236120809584	-0.000057783045175
16	massimi	1.98469	1.171915	1.679117	0.004058753696682	0.00641382093753	0.000068756790516
16	minimi	-1.919923	-1.011922	-15.18796	-0.00368790361595	-0.006131651175716	-0.000059124171044
17	massimi	23.063325	17.841106	-2.103002	0.004866496737402	0.006907384099227	0.000944220263331
17	minimi	-22.576697	-17.518148	-12.526852	-0.004358042469537	-0.006997168446991	-0.000806528237396

18	massimi	39.064893	28.145513	-2.127104	0.006112240386905	0.009732816562939	0.001619040216533
18	minimi	-38.10418	-27.647751	-12.686595	-0.006369338362933	-0.009335192406006	-0.001378518090274
19	massimi	50.795829	34.02247	-2.142396	0.004812519164407	0.008608466220025	0.002096972895755
19	minimi	-49.485442	-33.723121	-12.796862	-0.004039206730694	-0.008573155047319	-0.001784250911821
20	massimi	68.353929	50.96379	-2.162552	0.006127693214333	0.001255477765539	0.002734334310615
20	minimi	-66.795167	-51.303618	-12.947958	-0.005612031722217	-0.002252448123293	-0.002476732255336
21	massimi	3.020244	2.406068	-4.803702	0.004108831986841	0.005587444643364	0.000131948139461
21	minimi	-3.044145	-2.388771	-11.954676	-0.003981016006885	-0.005274606192426	-0.000128632184112
22	massimi	1.763382	1.511229	-4.803702	0.004108831986769	0.005587444643248	0.000131948139401
22	minimi	-1.857671	-1.465174	-11.954676	-0.003981016006815	-0.005274606192322	-0.000128632184053
23	massimi	1.658066	1.606062	3.478961	0.003888870998669	0.00536123090634	0.000108038933339
23	minimi	-1.748599	-1.563934	-19.574158	-0.003886823640035	-0.00482555219885	-0.000105027801017
24	massimi	1.655615	1.394435	-4.42341	0.00389389212889	0.005247837338296	0.000115583461158
24	minimi	-1.746345	-1.345178	-12.41456	-0.003894413285472	-0.005189519588914	-0.000112831824823
25	massimi	1.848885	1.394858	-2.003853	0.004016418820145	0.005235666346222	0.000112481812517
25	minimi	-1.945479	-1.345841	-14.563817	-0.003769826924125	-0.005176161666089	-0.000109951631391
26	massimi	1.846365	1.605516	1.049049	0.004021663869081	0.005373410071063	0.000104935226154
26	minimi	-1.943156	-1.563146	-16.873944	-0.003777640488277	-0.004838918294323	-0.000102145549041
27	massimi	19.614099	20.738637	-4.919686	0.004129020851648	0.006292654203492	0.00092143415558
27	minimi	-18.550714	-20.852908	-12.279099	-0.003919639547149	-0.005359972927698	-0.000829314345147
28	massimi	33.083217	33.760934	-4.98094	0.008774481033131	0.00785327762188	0.001582584810461
28	minimi	-31.489649	-33.995437	-12.420441	-0.008757719077198	-0.007989027831823	-0.001414973496347
29	massimi	42.721371	41.781437	-5.022284	0.003965953283897	0.007513659665556	0.002050919897244
29	minimi	-41.326758	-42.1493	-12.517821	-0.003732224268941	-0.007564538272396	-0.001830303910333
30	massimi	58.680053	59.269858	-5.087804	0.004741238765204	0.002566525364563	0.002762993896254
30	minimi	-54.471593	-60.015849	-12.701329	-0.004469964220859	-0.000007059565184	-0.002448072669697
31	massimi	3.249541	2.121879	-9.629112	0.003631616150044	0.005695814821852	0.000114046381285
31	minimi	-3.152351	-2.02306	-11.157979	-0.003442218486946	-0.005441272997851	-0.000103678532351
32	massimi	1.96825	1.350238	-9.629112	0.003631616149981	0.005695814821738	0.000114046381233
32	minimi	-1.928332	-1.208805	-11.157979	-0.003442218486885	-0.005441272997744	-0.000103678532304
33	massimi	1.871329	1.309927	-3.54856	0.003425632695807	0.005564041310866	0.000098407986606
33	minimi	-1.821897	-1.180325	-16.594684	-0.003397477441909	-0.005019297867729	-0.000089393519592
34	massimi	1.872019	1.373781	-2.853859	0.003419833900779	0.005250791746057	0.000096431141753
34	minimi	-1.823193	-1.222743	-17.893745	-0.003393768523666	-0.005312228375189	-0.000088213572758
35	massimi	2.039289	1.372942	-2.549705	0.003571767993126	0.005255163633095	0.000092436159566
35	minimi	-2.008809	-1.221802	-17.797366	-0.003233205811522	-0.005314841465315	-0.000084124835003
36	massimi	2.039996	1.310533	-2.167471	0.003565955422787	0.005559678955474	0.000094408280685
36	minimi	-2.010122	-1.181033	-17.57524	-0.003229483117968	-0.005016694309249	-0.000085300058104
37	massimi	19.622335	17.844063	-9.892174	0.003504808504493	0.004718630291847	0.000974678357832
37	minimi	-18.542478	-17.515192	-11.45928	-0.003063335039068	-0.004432428660688	-0.000776070142895
38	massimi	33.557714	28.101388	-9.988979	0.006739151798504	0.008913186593593	0.001688572022285
38	minimi	-31.015151	-27.691876	-11.591056	-0.006940214683851	-0.007775594596931	-0.001308986284522
39	massimi	44.10844	34.026252	-10.0552	0.003535568047716	0.007692585456639	0.002193939434938
39	minimi	-39.939688	-33.719339	-11.681805	-0.003018239485005	-0.006431465435307	-0.001687284372638
40	massimi	58.641974	50.983347	-10.144063	0.004772738220256	0.000483829991712	0.002796141477078
40	minimi	-54.509672	-51.284061	-11.842584	-0.004261007449343	-0.002333882893424	-0.002414925088873
41	massimi	3.269664	3.329773	0.023062	0.00468847477144	0.005854572488182	0.000253534023486
41	minimi	-3.138985	-3.052839	-21.250708	-0.004887016797174	-0.005703689508606	-0.000217818394485
42	massimi	2.39199	2.597483	0.023062	0.004688474771367	0.005854572488171	0.000253534023407
42	minimi	-2.283943	-2.350331	-21.250708	-0.004887016797099	-0.005703689508594	-0.000217818394417
43	massimi	2.262339	2.520887	-3.091621	0.004571571615737	0.005903143290611	0.000238753952728
43	minimi	-2.133218	-2.29571	-17.717718	-0.004902889571662	-0.005618821062984	-0.000205763658199
44	massimi	2.264026	2.657922	4.187091	0.004569575766149	0.005627544172062	0.000233429532835
44	minimi	-2.13529	-2.390433	-25.189523	-0.004901293341199	-0.005614700033537	-0.000201250585211
45	massimi	2.504989	2.657249	3.99814	0.004664670272947	0.005631864200692	0.00022639345897
45	minimi	-2.418349	-2.389592	-25.254658	-0.004723984293905	-0.005619545908031	-0.00019385981847
46	massimi	2.506711	2.521522	-0.604628	0.004662603260905	0.005898839536894	0.000231719827622
46	minimi	-2.420455	-2.296514	-20.458796	-0.004722316900989	-0.005613991463402	-0.000198374840217
47	massimi	19.623888	19.053152	0.040202	0.002001481997419	0.001138267493074	0.000975630983264
47	minimi	-18.540925	-17.026294	-21.604295	-0.000994104643102	-0.001627554088202	-0.000775117517463
48	massimi	34.121349	30.360354	0.031891	0.006722794779765	0.011430040640293	0.001710687898682
48	minimi	-30.451517	-26.197219	-21.707862	-0.008665174781876	-0.00964173844059	-0.001286870408125
49	massimi	44.084259	36.954485	0.027306	0.002450237968885	0.001377488254036	0.002230914615205
49	minimi	-39.96387	-31.590519	-21.778473	-0.001667870147088	-0.003199419383607	-0.001650309192372
50	massimi	2.401191	2.425181	-5.616594	0.003960022541562	0.004649090032772	0.000146712946726
50	minimi	-2.401457	-2.419006	-11.536013	-0.003933668489555	-0.004184398541422	-0.000144303880235
51	massimi	1.35534	1.540596	-5.616594	0.003960022541492	0.004649090032673	0.000146712946658
51	minimi	-1.460163	-1.528492	-11.536013	-0.003933668489486	-0.00418439854134	-0.000144303880169
52	massimi	1.286367	1.63785	1.462643	0.003750575923776	0.004482913310774	0.000119786974949

52	minimi	-1.388264	-1.628477	-17.653259	-0.003848794687451	-0.00379726678578	-0.000117616874648
53	massimi	1.285465	1.421616	-4.274294	0.003748291464319	0.004344474764612	0.000127625048775
53	minimi	-1.387414	-1.406971	-13.019642	-0.00385032551081	-0.004147796567137	-0.000125523149833
54	massimi	1.457392	1.421389	-3.154408	0.003875529843248	0.00433273280362	0.00012540496468
54	minimi	-1.563692	-1.407012	-14.083794	-0.003722759096489	-0.004135809875911	-0.000123549259102
55	massimi	1.454992	1.637953	-0.022289	0.003873426941848	0.004494656268613	0.000117565677306
55	minimi	-1.561345	-1.628312	-16.112593	-0.003724471477906	-0.003809254473853	-0.000115641770369
56	massimi	16.269481	20.742104	-5.757652	-0.004460552082873	0.005320673147147	0.000903679700878
56	minimi	-14.688106	-20.849441	-11.84602	-0.003932374157004	-0.004202557928787	-0.000847068799848
57	massimi	27.516539	33.748884	-5.830902	0.008871039083629	0.006575441556503	0.001560191491361
57	minimi	-24.914915	-34.007487	-11.981215	-0.008774527290066	-0.006393505919494	-0.001437366815447
58	massimi	35.618169	41.782625	-5.880667	0.003757927710323	0.006296259681574	0.002025269503141
58	minimi	-32.77207	-42.148112	-12.07428	-0.003703552012701	-0.006001944997354	-0.001855954304436
59	massimi	49.256895	59.292095	-5.961554	0.004554931906673	0.002398205243827	0.002698094578459
59	minimi	-42.669805	-59.993612	-12.24486	-0.004460552082873	0.000388677197069	-0.002512971987492
60	massimi	2.548869	2.135357	-10.751201	0.003448420180857	0.004573202297109	0.000145710992226
60	minimi	-2.450478	-2.057492	-12.311414	-0.003442840523409	-0.004217966887408	-0.00014090262561
61	massimi	1.52011	1.361147	-10.751201	0.003448420180796	0.004573202297016	0.000145710992159
61	minimi	-1.501647	-1.282026	-12.311414	-0.003442840523349	-0.004217966887326	-0.000140902625545
62	massimi	1.441014	1.310269	-5.264177	0.003235672823992	0.00452286637231	0.000124457540098
62	minimi	-1.418109	-1.236741	-16.775737	-0.003402647507279	-0.003847162646566	-0.000120238671665
63	massimi	1.440366	1.396421	-4.394496	0.003229854520798	0.004160432043513	0.000122212992102
63	minimi	-1.417801	-1.312952	-18.488855	-0.003399745810183	-0.00416163877939	-0.000118439925695
64	massimi	1.625733	1.395825	-4.73475	0.003409052904828	0.004164470593637	0.000119060157665
64	minimi	-1.611619	-1.312309	-18.136802	-0.003228419683149	-0.004165625515336	-0.000115243727904
65	massimi	1.626919	1.310662	-4.888659	0.00340322186816	0.004518832832458	0.000121302959334
65	minimi	-1.613143	-1.237182	-17.139456	-0.003225505252579	-0.003843180920893	-0.000117040727547
66	massimi	16.280267	17.850352	-11.044816	0.003309989557285	0.004481837578638	0.000938634304884
66	minimi	-14.677321	-17.508903	-12.653221	-0.00321206310642	-0.003763464152413	-0.000812114195843
67	massimi	28.065991	28.088133	-11.160961	0.006850511078998	0.007436620280953	0.001609417679832
67	minimi	-24.365462	-27.705131	-12.794059	-0.006897770721223	-0.005983849816423	-0.001388140626975
68	massimi	37.112812	34.032314	-11.240856	0.00328359796825	0.006678325976758	0.002084516165811
68	minimi	-31.277428	-33.713277	-12.891075	-0.003092651698266	-0.004926208748875	-0.001796707641765
69	massimi	49.224759	51.016032	-11.33119	0.004596363780336	0.000226401877256	0.002706044232209
69	minimi	-42.701941	-51.251377	-13.05473	-0.004379556274928	-0.001957320631063	-0.002505022333742
70	massimi	2.572262	3.316811	-4.136142	0.003260534468745	0.004844916171193	0.000165408090059
70	minimi	-2.425273	-3.090382	-21.93456	-0.003263277199133	-0.004346683285659	-0.000155814744066
71	massimi	1.845923	2.828587	-4.136142	0.003260534468695	0.004844916171179	0.000165408090007
71	minimi	-1.773669	-2.60257	-21.93456	-0.003263277199083	-0.004346683285651	-0.000155814744017
72	massimi	1.804914	2.785853	-6.702133	0.003130679657351	0.004913451064755	0.000156455155387
72	minimi	-1.727019	-2.566235	-18.806201	-0.003301610548015	-0.004253926243145	-0.00014740278852
73	massimi	1.805253	2.853343	-1.154619	0.003128732928072	0.004628688826783	0.000151566841735
73	minimi	-1.727709	-2.622426	-24.991333	-0.003300983406875	-0.00430693626042	-0.000143256439579
74	massimi	1.913129	2.852897	-1.203153	0.003295239063221	0.004631198084778	0.000147064849249
74	minimi	-1.846644	-2.621868	-24.946308	-0.003128390434414	-0.004309452782637	-0.000138517252258
75	massimi	1.914968	2.78629	-6.542689	0.003292992299429	0.004910946717987	0.000151912908219
75	minimi	-1.848834	-2.566784	-18.969155	-0.003127463258762	-0.004251414632154	-0.000142623346517
76	massimi	16.284938	19.059034	-4.200942	0.00111342884548	0.001211236943452	0.000928494881594
76	minimi	-14.672649	-17.020413	-22.302177	-0.000360489754263	-0.001928200216213	-0.000822253619133
77	massimi	28.754585	30.385882	-4.226454	0.007337938448794	0.009659635638385	0.001632230465689
77	minimi	-23.676869	-26.171691	-22.440262	-0.009193446595944	-0.007214781838014	-0.001365327841119
78	massimi	37.081342	36.971935	-4.243031	0.001093677425221	0.000764032514612	0.002130465609154
78	minimi	-31.308898	-31.573068	-22.535197	-0.000435702889651	-0.003121891113753	-0.001750758198422
79	massimi	2.176925	2.43183	-5.381279	0.003944376590542	0.004321997603473	0.000134146088161
79	minimi	-2.205734	-2.43416	-11.768287	-0.003933737815076	-0.003871307716538	-0.000143532402013
80	massimi	1.204694	1.54721	-5.381279	0.003944376590473	0.004321997603379	0.000134146088099
80	minimi	-1.334908	-1.547147	-11.768287	-0.003933737815007	-0.003871307716461	-0.000143532401947
81	massimi	1.168494	1.643127	0.763704	0.003742614472624	0.004173493192278	0.000108828071663
81	minimi	-1.30642	-1.633481	-16.951371	-0.003855993353944	-0.003501260673096	-0.000116517740798
82	massimi	1.16805	1.429187	-3.822312	0.003733712308581	0.004032862206966	0.000116767659414
82	minimi	-1.305977	-1.438707	-13.435431	-0.003850791514553	-0.00384935530158	-0.000124457686199
83	massimi	1.23198	1.428343	-3.669688	0.003859929153689	0.004029307728137	0.000115363256819
83	minimi	-1.352749	-1.438195	-13.565557	-0.003722431225898	-0.003845702028455	-0.000123359114688
84	massimi	1.231139	1.643883	0.766841	0.003851243783562	0.004177041711847	0.000107422700388
84	minimi	-1.351908	-1.633904	-16.93201	-0.003717383180423	-0.003504907986961	-0.000115418200607
85	massimi	15.050911	20.746278	-5.51329	0.003951383477576	0.004919455919132	0.000846332867325
85	minimi	-13.51185	-20.845267	-12.087112	-0.003921868716092	-0.003789513607779	-0.000904415633402
86	massimi	25.379283	33.750591	-5.583419	0.008876661220594	0.005967623479988	0.00145203671547
86	minimi	-22.760613	-34.00578	-12.225351	-0.00877225001079	-0.005738621735173	-0.001545521591337

87	massimi	32.743639	41.784414	-5.631135	0.003749334103587	0.00571498821828	0.001881441065609
87	minimi	-29.810721	-42.146323	-12.320412	-0.003707945292437	-0.005364120255127	-0.001999782741967
88	massimi	45.386574	59.313127	-5.706984	0.0045392497741	0.002338042753603	0.002560051412833
88	minimi	-38.566212	-59.97258	-12.495831	-0.004472512197589	0.000486082124279	-0.002651015153118
89	massimi	2.284734	2.140028	-11.216406	0.003390396984606	0.004262068670117	0.000126670997834
89	minimi	-2.223668	-2.083211	-12.246339	-0.003473030271897	-0.00391120211619	-0.000130063248389
90	massimi	1.325897	1.358994	-11.216406	0.003390396984547	0.004262068670028	0.000126670997776
90	minimi	-1.343776	-1.320769	-12.246339	-0.003473030271836	-0.003911202116112	-0.000130063248329
91	massimi	1.292519	1.322572	-5.735636	0.003178511970409	0.004225912359912	0.000108007053465
91	minimi	-1.313298	-1.281147	-16.604899	-0.003433688911368	-0.003548397122668	-0.000110712777105
92	massimi	1.292288	1.378964	-5.439401	0.00317309361203	0.003866623380923	0.000106202475003
92	minimi	-1.313231	-1.344541	-17.734199	-0.003431151289263	-0.003877936916409	-0.000109123574305
93	massimi	1.347936	1.378467	-5.488757	0.003354104444294	0.003865254385274	0.000103990462899
93	minimi	-1.362515	-1.344089	-17.859594	-0.003255132012995	-0.003877335275373	-0.000106953555083
94	massimi	1.347857	1.322943	-5.617459	0.003348674020158	0.004227290263167	0.00010578038692
94	minimi	-1.362599	-1.281473	-16.897827	-0.003252582325133	-0.003549007671309	-0.000108528103442
95	massimi	15.058418	17.858047	-11.525279	0.003203240423835	0.004209939652632	0.00090598853878
95	minimi	-13.504344	-17.501207	-12.583244	-0.003234811573685	-0.003415458076763	-0.000844759961947
96	massimi	25.93037	28.0844	-11.642729	0.006890572555744	0.006815422285431	0.001538464564298
96	minimi	-22.209527	-27.708864	-12.726133	-0.00687767836464	-0.005341358794715	-0.001459093742509
97	massimi	34.230668	34.040513	-11.723464	0.003198293261142	0.006129624047648	0.001986666400677
97	minimi	-28.323691	-33.705078	-12.824666	-0.003149827413238	-0.004309369472563	-0.001894557406899
98	massimi	45.354433	51.048531	-11.815066	0.004532114478498	0.000149798007226	0.002582764509496
98	minimi	-38.598354	-51.218877	-12.988218	-0.004415871893598	-0.001842617084291	-0.002628302056455
99	massimi	2.281822	3.227854	-6.921149	0.002907336339778	0.003762448057124	0.000492592178918
99	minimi	-2.165492	-3.103461	-21.50143	-0.00347489143127	-0.003772684438806	-0.0004854447307
100	massimi	1.717649	2.70956	-6.921149	0.002907336339733	0.003762448057123	0.000492592178764
100	minimi	-1.599783	-2.670301	-21.50143	-0.003474891431216	-0.003772684438801	-0.000485444730549
101	massimi	1.457551	2.609653	-9.146304	0.002775271544134	0.003845275329943	0.00045656549024
101	minimi	-1.335795	-2.574683	-18.654988	-0.003519050054301	-0.003671246600294	-0.000450138155914
102	massimi	1.457761	2.795092	-4.581784	0.002774400210288	0.003564929084081	0.000451528630666
102	minimi	-1.336066	-2.751803	-23.206408	-0.003518151609021	-0.003759118526055	-0.00044523017699
103	massimi	1.967505	2.794782	-4.399439	0.002951806095608	0.003563393652442	0.000447149729992
103	minimi	-1.85425	-2.75131	-24.115087	-0.003325863243598	-0.003759086284969	-0.0004404643474
104	massimi	1.967797	2.609899	-8.874936	0.002950881265739	0.003846818963554	0.000452191480135
104	minimi	-1.854603	-2.575112	-19.65269	-0.003324911302295	-0.003671287043351	-0.000445377144893
105	massimi	15.058645	19.071662	-7.034833	0.000618115782662	0.001216148538629	0.000854481083687
105	minimi	-13.504117	-17.007784	-21.881441	-0.000561473074011	-0.001666750996781	-0.00089626741704
106	massimi	26.546657	30.320731	-7.101605	0.004933662002485	0.008263930370125	0.0011270290324
106	minimi	-21.59324	-26.236842	-22.050857	-0.005296416297645	-0.006047258493153	-0.001870529274407
107	massimi	34.192644	37.006134	-7.12296	0.00099530844757	0.000812578451253	0.001940218022856
107	minimi	-28.361716	-31.53887	-22.143378	-0.001135860663508	-0.002842318317075	-0.0019410057484721
108	massimi	0.797137	0.666717	-0.743736	0.000441912255452	-0.000809813365614	0.000054742615386
108	minimi	-0.65376	-0.646159	-2.277102	-0.001328625221844	-0.001281589482891	-0.000044849277394
109	massimi	15.100371	19.238586	-0.820394	0.008070006878665	0.008089910279148	0.00080171801434
109	minimi	-12.992449	-17.680054	-2.393227	-0.008349814998853	-0.006228005087346	-0.000949030486386
110	massimi	25.169835	29.742586	-0.872339	0.003695518638818	0.001007244113171	0.001368286970675
110	minimi	-22.13488	-28.120495	-2.473652	-0.003474681179085	-0.002793044590557	-0.001629271336132
111	massimi	0.78265	0.624796	0.330662	0.000790647837212	0.001021647816258	0.000052867695587
111	minimi	-0.640927	-0.623114	-1.325206	-0.001180528628226	-0.000436987093462	-0.000042793715275
112	massimi	15.735958	20.365796	0.309927	0.00912497333261	0.007074248589515	0.000855840962319
112	minimi	-12.356863	-19.5959	-1.387913	-0.009262516383122	-0.00603617692843	-0.000894907538407
113	massimi	25.160901	32.890045	0.298416	0.00432508470169	0.002593937136409	0.0014614796642
113	minimi	-22.143813	-32.225007	-1.429708	-0.004042785483827	-0.004470714178637	-0.001536078642607
114	massimi	0.863744	3.145818	-7.245628	0.001632237676629	-0.0021485488602	0.000223610323508
114	minimi	-0.722868	-3.085387	-20.166442	-0.001896370154487	-0.002595018490337	-0.000239573199741
115	massimi	14.652038	19.076337	-7.134278	0.000510098174868	0.001187524056961	0.000777271097031
115	minimi	-13.440782	-17.00311	-21.59212	-0.000832847246938	-0.0017268881444	-0.000973477403695
116	massimi	25.195679	30.310519	-8.117959	0.002210138855558	0.003961599692402	0.001326082958931
116	minimi	-22.109036	-26.247053	-21.958067	-0.002443549184254	-0.003327165640291	-0.001671475347876
117	massimi	1.977657	2.426749	-5.302094	0.003944975311861	0.004136192706472	0.000149076958924
117	minimi	-2.089647	-2.436273	-11.662739	-0.003976985796494	-0.0038733846051	-0.000175856084272
118	massimi	1.047117	1.532757	-5.302094	0.003944975311792	0.00413619270638	0.000149076958855
118	minimi	-1.218239	-1.549483	-11.662739	-0.003976985796424	-0.00387338460502	-0.000175856084191
119	massimi	1.043163	1.673296	0.424619	0.003752768471335	0.003995934010732	0.000120796637313
119	minimi	-1.237658	-1.662295	-16.610773	-0.003906462676142	-0.003505208460627	-0.000143018185608
120	massimi	1.045873	1.370162	-3.340299	0.003738007994131	0.003857622757442	0.000128831306628
120	minimi	-1.240296	-1.414353	-13.469841	-0.003893859947147	-0.003849346089042	-0.000150958608977
121	massimi	1.057311	1.368713	-3.830946	0.003856847847233	0.003855061357756	0.000128339153043

121	minimi	-1.202855	-1.413341	-13.04689	-0.003762622332679	-0.003847081946621	-0.000150868366378
122	massimi	1.056991	1.674714	1.292105	0.003842234816322	0.003998493058103	0.000120304635308
122	minimi	-1.202463	-1.663276	-17.545953	-0.003750167049977	-0.003507470250734	-0.000142928094589
123	massimi	14.345868	20.75093	-5.43274	0.003906040322823	0.004773418918005	0.000815338381841
123	minimi	-13.420612	-20.840615	-11.977395	-0.003961807431614	-0.003793775400164	-0.000935410118886
124	massimi	24.204319	33.745949	-5.499075	0.008878153286623	0.00561937679166	0.001417139824223
124	minimi	-22.517122	-34.010422	-12.116218	-0.008731589946995	-0.005569620024053	-0.001580418482584
125	massimi	31.160169	41.786616	-5.544078	0.00373899306481	0.005358225084276	0.001843804187337
125	minimi	-29.391597	-42.144121	-12.211738	-0.003791503408246	-0.005176810463144	-0.002037419620239
126	massimi	43.322576	59.331268	-5.619915	0.004510877498572	0.002336799197619	0.002494259858301
126	minimi	-38.067502	-59.954439	-12.385975	-0.004533451581944	0.000411974205612	-0.00271680670765
127	massimi	2.045404	2.138022	-10.305142	0.003333537770697	0.004127144466501	0.000126057097731
127	minimi	-2.044545	-2.101003	-12.659862	-0.003522104450068	-0.003940929729474	-0.000130893572921
128	massimi	1.11706	1.34619	-10.305142	0.003333537770638	0.004127144466411	0.000126057097673
128	minimi	-1.1581	-1.351599	-12.659868	-0.003522104450007	-0.00394092972939	-0.000130893572861
129	massimi	1.114262	1.285627	-5.962993	0.003126195294993	0.004101020823217	0.00010691790754
129	minimi	-1.159461	-1.286022	-15.977468	-0.00347995084219	-0.00358823460183	-0.000110926085501
130	massimi	1.114043	1.3898	-4.329592	0.003121765657685	0.003735349637109	0.000104846430734
130	minimi	-1.159219	-1.400137	-18.053	-0.003477050092551	-0.003894563899837	-0.000108824134578
131	massimi	1.108592	1.38944	-5.061388	0.003295973785044	0.003733823335213	0.000103761856169
131	minimi	-1.14495	-1.399882	-17.719979	-0.003303717102632	-0.003894788678119	-0.000107835948854
132	massimi	1.108454	1.285932	-5.296374	0.003291529083104	0.004102578565349	0.000105826921809
132	minimi	-1.144789	-1.286222	-17.042862	-0.003300801288361	-0.003588041263785	-0.000109931488611
133	massimi	14.342588	17.866083	-10.584277	0.003073062798631	0.003965102061318	0.000880562474724
133	minimi	-13.423892	-17.493171	-13.011392	-0.003312516163005	-0.003400931412831	-0.000870186026002
134	massimi	24.663101	28.077349	-10.69064	0.006928236936914	0.00640266464625	0.001475271413019
134	minimi	-22.058339	-27.715915	-13.158575	-0.006820804054211	-0.005183219256763	-0.001522286893788
135	massimi	32.52465	34.049416	-10.763761	0.003112183241895	0.00579003227633	0.001896955932838
135	minimi	-28.027116	-33.696175	-13.25995	-0.003278307345374	-0.004146606535944	-0.001984267874738
136	massimi	43.287719	51.077134	-10.847797	0.004421198962186	0.000198167815488	0.00251447422219
136	minimi	-38.10236	-51.190275	-13.427833	-0.004470895050855	-0.001885656722088	-0.002696592343761
137	massimi	1.911975	3.066524	-6.524259	0.002831899931002	0.002406654509809	0.000385160034128
137	minimi	-1.827851	-3.072165	-20.068763	-0.003657978856457	-0.003476150967192	-0.000369709353712
138	massimi	1.551193	2.518399	-6.524259	0.002831899930958	0.002406654509824	0.000385160034008
138	minimi	-1.306645	-2.647952	-20.068763	-0.0036579788564	-0.003476150967182	-0.000369709353596
139	massimi	1.329691	2.436433	-8.467377	0.002709067193168	0.002494588514022	0.000355719396189
139	minimi	-1.076866	-2.574555	-18.034521	-0.003696407806155	-0.003376440695444	-0.000342160524943
140	massimi	1.329878	2.586144	-4.267669	0.00270964258479	0.002245369697655	0.000355133666098
140	minimi	-1.076851	-2.706269	-20.865532	-0.003694150597037	-0.003469907360434	-0.000341149500024
141	massimi	1.763153	2.586091	-4.242696	0.002867945873094	0.002243819670224	0.000350904969153
141	minimi	-1.528704	-2.705836	-21.947686	-0.003510413104277	-0.003470545233449	-0.000336118003909
142	massimi	1.763418	2.436436	-8.332264	0.002868487002799	0.002496151493474	0.00035149793538
142	minimi	-1.528769	-2.574939	-19.226816	-0.003508121633242	-0.003375815774449	-0.000337136264964
143	massimi	14.335184	19.081172	-6.623753	-0.000104478186805	0.001169267146336	0.000876248287232
143	minimi	-13.431296	-16.998275	-20.459397	-0.000937523644211	-0.001800440472652	-0.000874500213495
144	massimi	25.083706	30.300698	-6.720171	0.002823170252178	0.007244465879629	0.00142743822787
144	minimi	-21.637735	-26.256875	-20.641974	-0.003791308465341	-0.005394815609905	-0.001570120078937
145	massimi	32.473441	37.082933	-6.734617	0.000622392207029	0.000809867401721	0.001960890131008
145	minimi	-28.078326	-31.46207	-20.732969	-0.001779866488868	-0.002862420586559	-0.001920333676568
146	massimi	1.070685	0.667172	-0.615425	0.001319715525658	-0.000760108554484	0.000092967875079
146	minimi	-0.947841	-0.646538	-2.270033	-0.000574688324819	-0.00127756702047	-0.000092256918726
147	massimi	14.818598	18.559261	-0.680372	0.007833606079638	0.007890607436468	0.000807580443782
147	minimi	-12.869583	-18.359379	-2.392231	-0.008475262675276	-0.006084228109979	-0.000943168056945
148	massimi	24.797225	29.741361	-0.723869	0.003327443678281	0.001045068558554	0.00138170817169
148	minimi	-21.783592	-28.121719	-2.477027	-0.00407003325541	-0.002574264082393	-0.001615850135117
149	massimi	1.042496	0.624662	0.6415	0.001261351771475	0.001019129074313	0.000106141233167
149	minimi	-0.920372	-0.622672	-1.579744	-0.000931499519512	-0.000450312483002	-0.000106707732004
150	massimi	15.516632	19.944042	0.634526	0.009040890625917	0.006896158707178	0.00085128741166
150	minimi	-12.171549	-20.017653	-1.652873	-0.009280219534284	-0.005855768376144	-0.000899461089066
151	massimi	24.786613	32.890214	0.63293	0.003936526925742	0.002544751608694	0.001457480488603
151	minimi	-21.794203	-32.224837	-1.702171	-0.004466431622571	-0.004415192867468	-0.001540077818205
152	massimi	1.2115	3.022638	-6.404779	-0.000232428966246	-0.001210109425062	-0.00065245961584
152	minimi	-1.094432	-3.053424	-19.11667	-0.001162503312207	-0.002623658635564	-0.000619366438942
153	massimi	14.28882	19.082841	-6.253235	-0.00021265551523	0.001024920195222	0.000857514613885
153	minimi	-13.399361	-16.996605	-19.743805	-0.001140816069199	-0.00179684093574	-0.000893233886842
154	massimi	24.829191	30.295669	-6.712023	0.00018668928658	0.004916619685018	0.001263433327486
154	minimi	-21.751625	-26.261903	-20.108176	-0.000744252406873	-0.003843340166908	-0.001734124979321
155	massimi	2.155484	2.409817	-3.093624	0.00464566606605	0.004188266362173	0.000106555291521
155	minimi	-2.430712	-2.423531	-12.286025	-0.004842973846621	-0.004056521441819	-0.00009842245392

156	massimi	1.213686	1.320748	-3.093624	0.004645666065969	0.004188266362084	0.000106555291472
156	minimi	-1.518557	-1.378857	-12.286025	-0.004842973846537	-0.004056521441742	-0.000098422453875
157	massimi	1.189705	1.285735	2.611305	0.00442684889537	0.004042158637238	0.000090464374386
157	minimi	-1.485239	-1.352223	-17.238329	-0.00472723838526	-0.003701858307299	-0.000083474639916
158	massimi	1.192348	1.337527	0.487219	0.004406228236282	0.003910496135732	0.000088605580525
158	minimi	-1.487633	-1.386341	-15.427046	-0.004707699398938	-0.004000648136197	-0.000081288438067
159	massimi	1.220521	1.334886	-4.658338	0.004537621233701	0.003927659057348	0.000087641722386
159	minimi	-1.530921	-1.384479	-10.69875	-0.004616006106876	-0.004019643306583	-0.00008104062175
160	massimi	1.223197	1.288344	2.622232	0.004517160563944	0.004024790671672	0.000089479338421
160	minimi	-1.533349	-1.354053	-17.666517	-0.004596627109884	-0.003682658092962	-0.000083205645774
161	massimi	14.706897	20.755905	-3.158128	0.005031015294235	0.004927376365671	0.000950980624323
161	minimi	-14.308209	-20.83564	-12.613809	-0.005163030778179	-0.00374231772793	-0.000799767876404
162	massimi	25.253071	33.738722	-3.189867	0.008292420258611	0.006016356750192	0.0016083391236
162	minimi	-23.790557	-34.017649	-12.758115	-0.008105818323549	-0.005810396020676	-0.001389219183207
163	massimi	32.646872	41.789465	-3.210613	0.004978610250223	0.005249258400726	0.002074011633044
163	minimi	-30.837009	-42.141272	-12.85745	-0.005132344305314	-0.004801107206238	-0.001807212174532
164	massimi	44.203822	59.34193	-3.247261	0.005830718723844	0.001934523192777	0.002608184828888
164	minimi	-40.704533	-59.943777	-12.991842	-0.005919423369584	-0.000326444251234	-0.002602881737063
165	massimi	2.327795	2.131609	-7.768156	0.003889257230319	0.004092667889837	0.000208050712184
165	minimi	-2.347646	-2.108533	-11.98719	-0.004239878237773	-0.004108262412076	-0.000211923664083
166	massimi	1.407227	1.178198	-7.768156	0.003889257230251	0.004092667889755	0.000208050712088
166	minimi	-1.42357	-1.234012	-11.98719	-0.004239878237699	-0.004108262411995	-0.000211923663985
167	massimi	1.477389	1.311471	-4.438734	0.003669233752055	0.004062430225388	0.000171790626663
167	minimi	-1.497282	-1.362844	-14.451898	-0.004153574609722	-0.003793074389613	-0.000175164734682
168	massimi	1.479084	1.031313	-1.130437	0.003666222389206	0.003708507115773	0.000175338458655
168	minimi	-1.498739	-1.09069	-17.723169	-0.004150435210429	-0.004007472776533	-0.000178398086904
169	massimi	1.346941	1.031088	-2.928284	0.003822310619029	0.003719410698471	0.000175898497283
169	minimi	-1.359754	-1.090506	-16.666805	-0.004013111839116	-0.004021632318862	-0.000178996508777
170	massimi	1.346764	1.31172	-4.163506	0.003818978981942	0.004051498888441	0.000172346435512
170	minimi	-1.359339	-1.363051	-15.46861	-0.004009652165585	-0.003778887093035	-0.000175758926776
171	massimi	14.640483	17.874225	-7.977823	0.003784740315829	0.004005509682972	0.000833435639012
171	minimi	-14.374623	-17.485029	-12.31066	-0.004263671330257	-0.003951861552226	-0.000917312861715
172	massimi	24.976341	28.083363	-8.039251	0.006526757929452	0.006353010563342	0.001420861156959
172	minimi	-24.067287	-27.709901	-12.474246	-0.006319894667563	-0.00574966712986	-0.001576697149848
173	massimi	32.694225	34.058816	-8.080748	0.004013474141915	0.005248781593308	0.001837431785895
173	minimi	-30.789657	-33.686775	-12.587213	-0.004360561465429	-0.004357207423633	-0.002043792021681
174	massimi	44.142009	51.094002	-8.115096	0.005843587568558	0.000801564535252	0.002518063238848
174	minimi	-40.766347	-51.173406	-12.729357	-0.005910623801163	-0.001615418913387	-0.002693003327103
175	massimi	2.363088	2.847481	-3.549166	0.002527502526891	0.00370368275024	0.000170895363668
175	minimi	-2.313828	-2.984005	-14.347564	-0.003967029224139	-0.004047530342581	-0.000204041391313
176	massimi	1.807717	2.253072	-3.549166	0.002527502526852	0.003703682750243	0.000170895363614
176	minimi	-1.70688	-2.605525	-14.347564	-0.003967029224078	-0.004047530342575	-0.000204041391249
177	massimi	1.888126	2.228504	-5.671145	0.002443754316767	0.003732385877568	0.000153717646408
177	minimi	-1.807609	-2.559998	-11.36215	-0.003975177407075	-0.003959516101479	-0.000184866542624
178	massimi	1.889369	2.264217	-0.614758	0.002443536498874	0.003562083027933	0.000154856279539
178	minimi	-1.808304	-2.635292	-15.978495	-0.003974048896175	-0.004012165964906	-0.000184848150461
179	massimi	1.715287	2.264126	-1.13579	0.002534507694495	0.003562119896034	0.000159866245163
179	minimi	-1.595346	-2.635044	-17.299709	-0.003839165432289	-0.00401601547246	-0.000189527090302
180	massimi	1.716587	2.228643	-5.149117	0.002534250152245	0.003732361969249	0.000158679335289
180	minimi	-1.596099	-2.560293	-13.726424	-0.003837997197031	-0.003955679553708	-0.000189497205722
181	massimi	14.628971	19.089869	-3.603974	-0.000659428883869	0.000433965475146	0.000704399153627
181	minimi	-14.386135	-16.989577	-14.574016	-0.00194331411121	-0.001798262695217	-0.001046349347099
182	massimi	25.477731	30.275458	-3.64759	0.001834211432826	0.008181456162839	0.001082205262284
182	minimi	-23.565897	-26.282114	-14.691937	-0.004129718138373	-0.006770200498651	-0.001915353044523
183	massimi	32.646515	37.169724	-3.659514	0.000119591899881	0.000129264760854	0.001509381581425
183	minimi	-30.837366	-31.37528	-14.75858	-0.002504934866312	-0.002800833473239	-0.002371842226151
184	massimi	2.220996	3.109343	-9.398621	0.005114441018355	0.003345957407636	0.000214214510965
184	minimi	-2.441442	-3.029033	-15.088871	-0.005210068524057	-0.002020644267807	-0.000193622952636
185	massimi	1.725827	2.32937	-9.398621	0.005114441018276	0.003345957407637	0.000214214510898
185	minimi	-2.14507	-2.263404	-15.088871	-0.005210068523976	-0.002020644267842	-0.000193622952575
186	massimi	1.673407	2.227196	-8.550622	0.004956977782865	0.003384435490111	0.00020058014133
186	minimi	-2.078962	-2.174021	-14.801227	-0.005207531278466	-0.001921311105747	-0.000180895076587
187	massimi	1.675102	2.146656	-7.031748	0.004951749200729	0.003205494599737	0.000193982313408
187	minimi	-2.08076	-2.338338	-18.016183	-0.005205812836972	-0.002058394220061	-0.00017451379839
188	massimi	1.766648	2.414368	-6.550745	0.005121251606977	0.003204447529344	0.00019243678774
188	minimi	-2.196695	-2.336701	-18.619566	-0.005055527824922	-0.002057600422637	-0.00017434455532
189	massimi	1.768406	2.229492	-7.438986	0.005116008657828	0.003385486397771	0.000199021961349
189	minimi	-2.198555	-2.175666	-16.035244	-0.005053795016414	-0.001922108740438	-0.000180713179203
190	massimi	14.693048	19.038407	-9.557421	0.002545203219996	0.002103230426056	0.000880894591136

190	minimi	-14.322058	-18.424333	-15.345384	-0.001541097919739	0.000213240585912	-0.000869853909591
191	massimi	24.935264	31.446023	-9.605998	0.008023130635451	0.007974769265423	0.00154408182507
191	minimi	-24.108364	-29.195438	-15.450912	-0.009141382684664	-0.008406027263135	-0.001453476481738
192	massimi	32.662978	38.068774	-9.638651	0.004095572217476	0.002363331079554	0.002013846850337
192	minimi	-30.820903	-36.678851	-15.523105	-0.000871289731433	0.000296348449592	-0.001867376957239
193	massimi	2.313976	2.857541	-6.309408	0.004101869095905	0.002422657400599	0.000311178024954
193	minimi	-2.367832	-2.834322	-16.549065	-0.00442097263975	-0.003350087728863	-0.000316431467084
194	massimi	1.951838	2.194458	-6.309408	0.004101869095842	0.002422657400626	0.000311178024857
194	minimi	-1.866579	-2.219104	-16.549065	-0.004420972639682	-0.003350087728873	-0.000316431466986
195	massimi	2.022976	2.339223	-5.717954	0.003982527079272	0.002429071020762	0.000280621072089
195	minimi	-1.941143	-2.360597	-17.319201	-0.004445071371427	-0.003195711361849	-0.000285620455088
196	massimi	2.024176	2.036086	-8.288816	0.003982015178185	0.002342394011393	0.000286573379746
196	minimi	-1.942305	-2.063841	-13.561451	-0.004442103136973	-0.00340234207196	-0.000291491854536
197	massimi	1.895249	2.036017	-5.540796	0.004096713222269	0.002346437558048	0.000290279646204
197	minimi	-1.807167	-2.063639	-16.717847	-0.00426510463746	-0.003407230776099	-0.000294918234325
198	massimi	1.894996	2.339316	-3.347723	0.004096222195433	0.002425036808125	0.000284326308112
198	minimi	-1.806877	-2.360823	-20.097807	-0.004262157277256	-0.003190831991728	-0.000289045804442
199	massimi	14.649067	18.308167	-6.433144	0.002078273616602	0.000678087315995	0.000627699133568
199	minimi	-14.366039	-16.973983	-16.802762	-0.002019149624418	-0.002410507653562	-0.001123049367159
200	massimi	25.333404	29.139512	-6.447457	0.007107303654058	0.008345705973644	0.000998646179375
200	minimi	-23.710225	-26.682781	-16.904386	-0.007876257456869	-0.006806919050974	-0.001998912127433
201	massimi	32.674592	35.3778	-6.456018	0.002161022878877	0.000564425206603	0.001263221285319
201	minimi	-30.809289	-32.510887	-16.973873	-0.001774771207868	-0.002534658406986	-0.002618002522258
202	massimi	2.032146	3.105102	-4.743237	0.005265461367286	0.004499932134649	0.000190468684435
202	minimi	-2.147105	-3.070826	-19.413044	-0.005582287846471	-0.005166537763485	-0.000230242239236
203	massimi	1.357603	2.269695	-4.743237	0.005265461367205	0.004499932134624	0.000190468684376
203	minimi	-1.372572	-2.282943	-19.413044	-0.005582287846385	-0.005166537763451	-0.000230242239164
204	massimi	1.396362	2.361051	-0.800239	0.005086742550383	0.004505176040924	0.000170466127682
204	minimi	-1.434944	-2.350613	-23.356666	-0.005555512120772	-0.005006151185915	-0.000206947608543
205	massimi	1.398332	2.164583	-1.501616	0.005078075561045	0.004357605508022	0.000176488063434
205	minimi	-1.436894	-2.201429	-21.802195	-0.005545079601886	-0.0051695204778	-0.000212926055554
206	massimi	1.318631	2.162862	-8.47061	0.005292371750575	0.004363307836026	0.000178980613858
206	minimi	-1.309907	-2.199731	-15.238663	-0.005449362369584	-0.005176061932398	-0.000215467743477
207	massimi	1.320433	2.362798	-5.45028	0.005283754919868	0.004499431732437	0.000172958775387
207	minimi	-1.311688	-2.352336	-19.112087	-0.005438980009328	-0.004999567750835	-0.000209489393748
208	massimi	14.846707	19.037337	-4.824537	0.001249457278552	0.000934980881554	0.000719339972405
208	minimi	-17.8307	-18.425402	-19.730894	-0.002461628684808	-0.001129994735163	-0.001031408528321
209	massimi	25.111506	30.234651	-4.867282	0.008999940137969	0.007513075762079	0.001191361066499
209	minimi	-30.62375	-30.40681	-19.828681	-0.008478328336558	-0.009258031198912	-0.001806197240308
210	massimi	32.496548	38.097669	-4.895837	0.000385540135147	0.002094323274498	0.001526903057411
210	minimi	-39.500364	-36.649956	-19.895442	-0.004113156881372	-0.002239756821624	-0.002354320750165
211	massimi	1.970473	2.856216	-3.723782	0.004003076123237	0.003051874407608	0.000188971317416
211	minimi	-2.027446	-2.870939	-14.627462	-0.004711753907071	-0.004276229081841	-0.000210979312234
212	massimi	1.513248	2.149867	-3.723782	0.004003076123176	0.003051874407611	0.000188971317357
212	minimi	-1.386568	-2.270892	-14.627462	-0.004711753906998	-0.004276229081822	-0.000210979312168
213	massimi	1.527052	2.190031	-0.833982	0.003848133505439	0.003064701281911	0.000169732419896
213	minimi	-1.413975	-2.297468	-17.680481	-0.004664099967563	-0.004154863362443	-0.000190326947433
214	massimi	1.52823	2.096193	-0.223858	0.003849023795304	0.002946100592028	0.000174329822444
214	minimi	-1.414964	-2.230003	-16.723726	-0.004661747508998	-0.004267324013253	-0.000194527052034
215	massimi	1.495075	2.096175	-6.199794	0.00403510574133	0.002949665617681	0.000176963525721
215	minimi	-1.355821	-2.229789	-11.654727	-0.004618133903561	-0.004272765998106	-0.000196744891397
216	massimi	1.496224	2.190067	-4.907382	0.004036012795827	0.003061097016873	0.000172372617779
216	minimi	-1.356781	-2.297701	-14.514017	-0.004615798209629	-0.004149382138205	-0.000192551281402
217	massimi	14.838881	18.315506	-3.803943	0.001594306625125	-0.000270422236716	0.000911259411947
217	minimi	-17.838526	-16.966644	-14.822447	-0.003027667988639	-0.001681304621547	-0.00083948908878
218	massimi	25.092585	28.985864	-3.85991	0.007373353787694	0.008388629759467	0.001521797995069
218	minimi	-30.64267	-26.83643	-14.919731	-0.007431726821988	-0.00942079549251	-0.001475760311738
219	massimi	32.479048	35.392166	-3.897686	0.001462751498592	0.000366749976544	0.001954596946362
219	minimi	-39.517864	-32.49652	-14.9862	-0.002850542396218	-0.001723667523518	-0.001926626861214
220	massimi	2.4352	2.872878	-7.08629	0.002658417498685	0.003667100293099	0.000121908509146
220	minimi	-2.290747	-2.869332	-15.05029	-0.003278307790498	-0.004375913957257	-0.000151956881888
221	massimi	1.885463	2.381468	-7.08629	0.002658417498644	0.003667100293105	0.000121908509108
221	minimi	-1.634688	-2.470906	-15.050289	-0.003278307790448	-0.004375913957244	-0.00015195688184
222	massimi	1.853149	2.387081	-4.639876	0.002540691279577	0.003662101079943	0.000111703551808
222	minimi	-1.621145	-2.458158	-17.350049	-0.00329424597905	-0.004218757455632	-0.000139825365045
223	massimi	1.854495	2.360507	-7.2768	0.002540578654204	0.003560320719401	0.000111914782002
223	minimi	-1.622352	-2.467714	-13.806014	-0.003292256034592	-0.004399683838026	-0.000139742988758
224	massimi	1.904719	2.360288	-9.152465	0.002695502731752	0.003562728803656	0.000111975198095
224	minimi	-1.636975	-2.467105	-12.723659	-0.00316470888603	-0.004403733724539	-0.00013898016488

225	massimi	1.906067	2.387299	-4.538588	0.002695406841925	0.003659685888775	0.000111762231231
225	minimi	-1.638185	-2.458765	-18.244647	-0.003162735677119	-0.004214700462205	-0.000139060804496
226	massimi	14.371624	18.312919	-7.219115	0.00104929130394	0.001176725013991	0.000654877979265
226	minimi	-16.362171	-16.969231	-15.300185	-0.001727042359047	-0.001964160487484	-0.001095870521461
227	massimi	24.209306	29.000754	-7.281837	0.007687087694866	0.007420159461039	0.001072144891908
227	minimi	-27.850621	-26.821539	-15.410285	-0.008066562453335	-0.008208918778018	-0.001925413414899
228	massimi	31.582619	35.387107	-7.324362	0.000940307528899	0.001917740242233	0.001369242457545
228	minimi	-35.89846	-32.501579	-15.485748	-0.00171400577255	-0.002062280400006	-0.002511981350031
229	massimi	2.379598	2.659071	-0.893812	0.000017107258556	0.002864558524495	0.000303638718231
229	minimi	-2.200914	-2.853055	-7.203948	-0.003268305323699	-0.003882425639205	-0.000256663850104
230	massimi	1.950077	2.179417	-0.893812	0.000017107258556	0.002864558524516	0.000303638718136
230	minimi	-1.618713	-2.861081	-7.203948	-0.003268305323649	-0.003882425639199	-0.000256663850024
231	massimi	2.118138	2.120688	-2.460349	0.00000302717686	0.002860584772016	0.000275531483421
231	minimi	-1.760466	-2.82777	-4.141285	-0.003252858284065	-0.003820402062497	-0.000234104184878
232	massimi	2.119839	2.225744	2.157212	0.000007735192068	0.002781208693615	0.000275952454762
232	minimi	-1.761108	-2.877469	-7.456222	-0.003254870440747	-0.003826096456959	-0.000232287401753
233	massimi	1.767677	2.225729	1.015567	0.000027977415666	0.002775576541928	0.000281548257646
233	minimi	-1.465877	-2.876939	-10.475326	-0.003184127132241	-0.003829075223039	-0.000236795407799
234	massimi	1.769422	2.12077	-3.366725	0.000030693310691	0.002866218506943	0.000281113889135
234	minimi	-1.466563	-2.828367	-7.395659	-0.00318414716874	-0.003817424879657	-0.000238598793755
235	massimi	14.372794	19.098767	-0.894881	-0.000400224479615	0.000897728203525	0.000615836268002
235	minimi	-16.361001	-16.98068	-7.577384	-0.002336319354454	-0.002874515703841	-0.001134912239925
236	massimi	24.539286	30.269246	-0.88452	0.003722525386371	0.007640781283655	0.000738330526256
236	minimi	-27.520641	-26.288326	-7.724324	-0.005392597587992	-0.00765589156232	-0.002259227780551
237	massimi	31.577198	37.200297	-0.887842	-0.000013808133057	0.00110388906925	0.001266299335676
237	minimi	-35.903881	-31.344706	-7.785985	-0.002645844937661	-0.003451288756203	-0.0026149244719
238	massimi	1.751409	2.606241	2.891306	0.001312973649743	0.00185338769995	0.00047309662859
238	minimi	-1.785622	-2.803086	-2.625382	-0.002672391008461	-0.002626358620618	-0.000402418020784
239	massimi	14.835838	19.099939	2.994818	0.00003046753141	0.000511667717466	0.00078736616601
239	minimi	-17.841568	-16.979507	-2.859468	-0.002464559789464	-0.002218603865131	-0.000963382334717
240	massimi	25.252227	30.387845	3.00806	0.007529854167439	0.007788200163707	0.001365511428564
240	minimi	-30.483029	-26.169728	-2.931036	-0.00814823624464	-0.008828964114008	-0.001632046878243
241	massimi	32.462109	37.206691	3.019077	0.000568326277436	0.001223705869055	0.001775566133501
241	minimi	-39.534803	-31.338312	-2.979481	-0.002855028092826	-0.003161319312346	-0.002105657674075
242	massimi	2.434377	1.861843	-7.246018	0.005360408796694	0.002160991520271	0.000235745730613
242	minimi	-2.262375	-1.90202	-8.795216	-0.006247156611755	-0.003487837147264	-0.000233928713222
243	massimi	2.113216	0.925796	-7.246018	0.005360408796611	0.002160991520306	0.000235745730539
243	minimi	-1.742187	-1.098984	-8.795216	-0.006247156611659	-0.003487837147266	-0.000233928713149
244	massimi	2.109682	0.9009	-3.921957	0.005226118625154	0.002175141056548	0.000216273654297
244	minimi	-1.738937	-1.074307	-12.256592	-0.00620189003955	-0.003382154325416	-0.00021550017658
245	massimi	2.11037	0.947469	-3.283044	0.005227822548208	0.002080972122174	0.000215618309083
245	minimi	-1.739356	-1.119291	-11.197463	-0.006200079763114	-0.003487201874562	-0.000214276291823
246	massimi	2.104294	0.947327	-4.259336	0.005329585942249	0.002083578820091	0.00021623991404
246	minimi	-1.73571	-1.118572	-11.355995	-0.006103792288892	-0.003492157156712	-0.000213679889512
247	massimi	2.105004	0.901078	-4.456289	0.005331292616225	0.002172530318654	0.000216892526599
247	minimi	-1.736152	-1.075061	-12.857084	-0.006101984763378	-0.003377195003289	-0.000214901041614
248	massimi	14.369773	18.923209	-7.36999	0.003868783119041	0.000264132686297	0.001038728178184
248	minimi	-16.364022	-16.63674	-8.939265	-0.005095059204353	-0.002014778996102	-0.000712020322543
249	massimi	24.456042	30.083655	-7.438735	0.005939217524403	0.008003844543883	0.001857800935107
249	minimi	-27.603885	-25.861523	-9.018155	-0.006921551994054	-0.008245853745556	-0.0011397573717
250	massimi	31.575346	36.784091	-7.485353	0.003441472222137	0.000277402046381	0.002437017497792
250	minimi	-35.905733	-31.073413	-9.07184	-0.004788161416449	-0.002204470051777	-0.001444206309784
251	massimi	1.783372	0.887151	-1.478264	0.003427776269134	-0.00055669799033	0.000366744761257
251	minimi	-1.819287	-0.86492	-4.987564	-0.004385541899422	-0.002455944584299	-0.000323812738952
252	massimi	1.909407	0.232008	-1.478264	0.003427776269081	-0.000556697990271	0.000366744761143
252	minimi	-1.493425	-0.353442	-4.987564	-0.004385541899354	-0.002455944584298	-0.00032381273885
253	massimi	1.965727	0.421049	0.772151	0.003343346655635	-0.000540896961812	0.000335417124153
253	minimi	-1.525687	-0.56729	-8.501656	-0.004326262045484	-0.002391335774175	-0.000296917665405
254	massimi	1.965908	0.083944	1.834734	0.003349018447888	-0.000555508338845	0.000336559177351
254	minimi	-1.525679	-0.179767	-5.708783	-0.004323954742969	-0.002445705155511	-0.00029766107548
255	massimi	1.846481	0.083148	-1.2857	0.003402041819372	-0.000559015281988	0.000337418918227
255	minimi	-1.457505	-0.178324	-3.814058	-0.00431343977332	-0.002444734889899	-0.00029715523829
256	massimi	1.846643	0.420835	-2.742038	0.003407715353179	-0.000537409440961	0.000336276506627
256	minimi	-1.457478	-0.567721	-6.213176	-0.00431113421236	-0.002392286617494	-0.000296411469813
257	massimi	14.835291	18.952787	-1.52695	0.003297635871781	-0.000478144014463	0.000937062991089
257	minimi	-17.842115	-16.607161	-5.376874	-0.004847830592398	-0.001701885291439	-0.000813685509638
258	massimi	25.293051	30.208328	-1.583034	0.006049976857751	0.008443898760055	0.001671236197453
258	minimi	-30.442205	-25.736849	-5.472135	-0.006862001626118	-0.009261987279153	-0.001326322109355
259	massimi	32.46574	36.632127	-1.620711	0.003908538732175	-0.000249008731386	0.002190842437405

259	minimi	-39.531172	-31.225377	-5.537197	-0.004563221497536	-0.002190830749016	-0.001690381370172
260	massimi	68.428831	61.343925	0.498872	0.006083145944132	0.002329001230367	0.00269119227613
260	minimi	-66.720265	-62.342112	-13.318416	-0.005749099425333	-0.001177038836623	-0.002519874289822
261	massimi	58.680053	61.265324	-1.761253	0.004741238765204	0.002559529241633	0.002762993896254
261	minimi	-54.471593	-62.420713	-12.716502	-0.004469964220859	-0.000016400051785	-0.002448072669697
262	massimi	68.353929	51.353433	0.107887	0.006127693214333	0.001262094472728	0.002734334310615
262	minimi	-66.795167	-51.358378	-13.933039	-0.005612031722217	-0.002248087380292	-0.002476732255336
263	massimi	58.641974	51.45334	-7.289541	0.004772738220256	0.000492938089754	0.002796141477078
263	minimi	-54.509672	-51.258472	-12.307965	-0.004261007449343	-0.002326654381936	-0.002414925088873
264	massimi	49.224759	51.368897	-8.946366	0.004596363780336	0.000234505110874	0.002706044232209
264	minimi	-42.701941	-51.342914	-13.205288	-0.004379556674928	-0.001949087255152	-0.002505022333742
265	massimi	49.256895	61.371193	-2.895864	0.004554931906673	0.002390686018272	0.002698094578459
265	minimi	-42.669805	-62.314106	-11.703531	-0.004460552082873	0.000379859813094	-0.002512971987492
266	massimi	45.386574	61.572418	-2.692232	0.0045392497741	0.002331552970399	0.002560051412833
266	minimi	-38.566212	-62.113618	-11.855148	-0.004472512197589	0.000476235297953	-0.002651015153118
267	massimi	45.354433	51.241133	-9.441429	0.004532114478498	0.000158419776799	0.002582764509496
267	minimi	-38.598354	-51.470678	-13.177119	-0.004415871893598	-0.001834902244334	-0.002628302056455
268	massimi	43.322576	61.676088	-2.592856	0.004510877498572	0.002330237872711	0.002494259858301
268	minimi	-38.067502	-62.009949	-11.855556	-0.004533451581944	0.00040219892099	-0.00271680670765
269	massimi	43.287719	51.180959	-8.515677	0.004421198962186	0.000207685713976	0.00251447422219
269	minimi	-38.10236	-51.530853	-13.582146	-0.004470895050855	-0.001878838011047	-0.002696592343761
270	massimi	44.203822	61.538648	-0.763369	0.005830718723844	0.001930315796692	0.002608184828888
270	minimi	-40.704533	-62.147389	-13.395935	-0.005919423369584	-0.000333214305338	-0.002602881737063
271	massimi	44.142009	51.202493	-6.134863	0.005843587568558	0.00080772158329	0.002518063238848
271	minimi	-40.766347	-51.509319	-13.662282	-0.005910623801163	-0.001610598511236	-0.002693003327103
272	massimi	3.4711	1.450492	-6.197766	0.00569700757103	0.005061686996854	0.000128224989298
272	minimi	-3.420454	-1.429926	-9.748336	-0.005561781027946	-0.004933873825613	-0.00012048270233
273	massimi	2.713285	0.617357	-6.197766	0.005697007570942	0.005061686996866	0.000128224989258
273	minimi	-2.681811	-0.576507	-9.748336	-0.005561781027861	-0.004933873825626	-0.000120482702292
274	massimi	2.635742	0.621875	-3.364287	0.005569974297032	0.005033460086572	0.00012175353303
274	minimi	-2.599737	-0.58574	-12.44319	-0.005536776174752	-0.00480727947714	-0.0001146361377
275	massimi	2.635605	0.618765	-4.743865	0.005569713384524	0.004935612187262	0.000121932041251
275	minimi	-2.599663	-0.57347	-11.227182	-0.005536853780134	-0.004910062775521	-0.000114948748392
276	massimi	2.773124	0.618509	-1.421586	0.005650635377832	0.004933666016802	0.000113505337209
276	minimi	-2.746327	-0.573165	-14.376403	-0.005417164210341	-0.004907758452583	-0.00010641827375
277	massimi	2.772986	0.620983	-2.525563	0.005650373444155	0.005035411635738	0.000113324510988
277	minimi	-2.746253	-0.584897	-13.108856	-0.005417240794552	-0.004809589178783	-0.000106103795057
278	massimi	23.057705	17.644769	-6.276661	0.006153454602337	0.001255511625715	0.00088108944418
278	minimi	-22.582317	-18.063051	-9.887392	-0.005876887635401	-0.001228175657629	-0.000869659056546
279	massimi	3.181637	1.594283	-10.389993	0.005694048574832	0.004221174464572	0.000119075291551
279	minimi	-3.142025	-1.576415	-12.494088	-0.00560985955462	-0.003826385118726	-0.000113910291222
280	massimi	2.549025	0.753347	-10.389993	0.005694048574745	0.004221174464592	0.000119075291514
280	minimi	-2.568631	-0.72285	-12.494088	-0.005609859554534	-0.003826385118752	-0.000113910291187
281	massimi	2.47862	0.757612	-6.245509	0.005533080684488	0.004226113593968	0.000111668058313
281	minimi	-2.495065	-0.730304	-16.229002	-0.005596902422845	-0.003689979902932	-0.000106847963371
282	massimi	2.478452	0.749144	-7.151248	0.005532341289004	0.004087566273314	0.000113117936105
282	minimi	-2.494945	-0.715662	-15.828498	-0.005597208641478	-0.003846156230611	-0.000108397953108
283	massimi	2.60293	0.74884	-6.327219	0.005682181374027	0.004085610817542	0.000107015961444
283	minimi	-2.625519	-0.715389	-16.544786	-0.005451502441771	-0.003843977797119	-0.0001023603407
284	massimi	2.602761	0.757272	-6.785526	0.005681442763559	0.00422806704089	0.000105352820969
284	minimi	-2.625397	-0.729934	-15.581243	-0.005451809445419	-0.003692156327574	-0.000100597088281
285	massimi	19.61727	17.712315	-10.543809	0.005611802289569	0.001029732725282	0.000866664851327
285	minimi	-18.547544	-17.995505	-12.69635	-0.005416227858331	-0.000812828932156	-0.000884083649399
286	massimi	2.517019	1.598388	-10.866494	0.005639116045348	0.003622914984697	0.000111077787593
286	minimi	-2.463199	-1.58701	-12.501953	-0.005631381866169	-0.003033656809515	-0.000104712168244
287	massimi	1.973965	0.754001	-10.866494	0.005639116045261	0.003622914984706	0.000111077787558
287	minimi	-2.008534	-0.741463	-12.501953	-0.005631381866082	-0.003033656809535	-0.000104712168212
288	massimi	1.922426	0.761174	-6.714313	0.005479661659955	0.003643162912524	0.00010309023622
288	minimi	-1.953085	-0.75249	-16.066497	-0.005621804555635	-0.002912336592701	-0.000097173728506
289	massimi	1.922316	0.747972	-7.850278	0.00547835963519	0.003492230737776	0.000104852596864
289	minimi	-1.952995	-0.731663	-15.68464	-0.005622063202841	-0.003062503951273	-0.000098977248729
290	massimi	2.019182	0.747705	-7.249481	0.005627969969422	0.003490335398228	0.00010071032222
290	minimi	-2.057413	-0.73145	-16.275539	-0.005469033816041	-0.003060588127466	-0.000094948457179
291	massimi	2.019013	0.761335	-7.350222	0.005626668071751	0.003645060254784	0.000098950015311
291	minimi	-2.057263	-0.752598	-15.42069	-0.00546929259034	-0.002914254419219	-0.000093146990692
292	massimi	16.273392	17.835233	-11.033217	0.005523566452324	0.001019569159113	0.000879132450056
292	minimi	-14.684195	-17.872587	-12.698725	-0.00548423274576	-0.000710457002526	-0.000871616050671
293	massimi	2.270725	1.601286	-9.787985	0.005633895525913	0.00337809439766	0.000116761120045
293	minimi	-2.249399	-1.599904	-13.632742	-0.005636912694831	-0.00277736752908	-0.000105875633638

294	massimi	1.764239	0.756074	-9.787985	0.005633895525827	0.003378094397667	0.000116761120008
294	minimi	-1.833022	-0.755144	-13.632742	-0.005636912694744	-0.002777367529098	-0.000105875633605
295	massimi	1.75703	0.761074	-6.612568	0.005471361402281	0.003393278859728	0.0001074581682
295	minimi	-1.819111	-0.766674	-16.205795	-0.005624431605436	-0.00265081787113	-0.000097358477336
296	massimi	1.756961	0.753077	-7.256994	0.005469794783082	0.003259975379862	0.000109230556438
296	minimi	-1.819043	-0.745623	-16.330155	-0.005624456033464	-0.002819295492785	-0.000099133919239
297	massimi	1.760446	0.752749	-7.238	0.005626266295584	0.003258881086128	0.000106767657056
297	minimi	-1.835474	-0.745402	-16.353011	-0.005477547406135	-0.002818209190133	-0.000096896821738
298	massimi	1.760371	0.761755	-6.524601	0.005624703090161	0.003394366597499	0.000104997908233
298	minimi	-1.835401	-0.767248	-16.297624	-0.005477575247938	-0.002651897617818	-0.00009512401925
299	massimi	15.053409	17.84566	-9.93197	0.005495891360819	0.000973569094251	0.000899984767069
299	minimi	-13.509352	-17.862159	-13.852991	-0.00548830907752	-0.000642484753007	-0.000850763733657
300	massimi	2.052788	1.58021	-10.737836	0.005623588685719	0.003246793883048	0.000114336530612
300	minimi	-2.105497	-1.592393	-12.569135	-0.005659740715031	-0.00279030326793	-0.000099686234233
301	massimi	1.565888	0.731723	-10.737836	0.005623588685632	0.00324679388305	0.000114336530576
301	minimi	-1.68707	-0.749329	-12.569135	-0.005659740714944	-0.00279030326806	-0.000099686234202
302	massimi	1.56101	0.732452	-7.168599	0.005465454056821	0.003273731471757	0.000105340085535
302	minimi	-1.673092	-0.758806	-15.608206	-0.005650572595086	-0.002674124671572	-0.000091731349699
303	massimi	1.560988	0.7309	-7.343193	0.005463844078395	0.003120889460745	0.000106203693552
303	minimi	-1.673042	-0.73964	-16.01781	-0.005650171648704	-0.002821431037264	-0.000092537162627
304	massimi	1.561098	0.730499	-7.442533	0.005611904817102	0.003120138191018	0.00010534188101
304	minimi	-1.690605	-0.739427	-15.964736	-0.005496779228683	-0.002820775517517	-0.000092073165856
305	massimi	1.561067	0.733611	-6.722318	0.005610294529372	0.003274486667788	0.000103573644362
305	minimi	-1.690547	-0.759776	-16.100753	-0.005496377972997	-0.002674784117623	-0.000090362724296
306	massimi	14.344514	17.89923	-10.901915	0.005454386150158	0.000949852259953	0.000913230662892
306	minimi	-13.421966	-17.808589	-12.767641	-0.005530740913992	-0.000601539187141	-0.000837517837835
307	massimi	1.78504	1.39632	1.88896	0.004616932633098	0.006338995382229	0.000108265091424
307	minimi	-1.827406	-1.308668	-15.341384	-0.004491101170989	-0.006024176109324	-0.000110932540938
308	massimi	1.78422	1.334522	-1.748428	0.00460816678332	0.006336112246341	0.000110669216948
308	minimi	-1.826716	-1.248582	-11.854888	-0.004501534076795	-0.006156188161005	-0.000113661903697
309	massimi	1.783335	1.270273	-4.688921	0.004631753564613	0.00628634304906	0.00011272181278
309	minimi	-1.825971	-1.186224	-8.987608	-0.004507820372105	-0.006242646339272	-0.000115717720738
310	massimi	1.828998	1.205329	-1.810186	0.004646637503092	0.006244687857896	0.000111784972775
310	minimi	-1.869991	-1.123264	-11.780918	-0.00446044699898	-0.006277407371893	-0.000114888922204
311	massimi	1.873943	1.20602	-0.130377	0.004668849894563	0.006230304464896	0.000111263565937
311	minimi	-1.913275	-1.123974	-13.337124	-0.00441158316198	-0.006261930048959	-0.000114268353294
312	massimi	1.917553	1.20611	1.84897	0.004671686898245	0.006231173595932	0.000110012648534
312	minimi	-1.955191	-1.124113	-15.157961	-0.004344412131468	-0.006261529931854	-0.000113164445378
313	massimi	1.960606	1.27087	2.166943	0.004686313319101	0.006272973742499	0.000107491067366
313	minimi	-1.996533	-1.186871	-15.27722	-0.004296797726469	-0.006226941940564	-0.000110628176598
314	massimi	1.959578	1.334522	1.446972	0.004687051393812	0.006336112246342	0.000111228049437
314	minimi	-1.995642	-1.248582	-14.483625	-0.004281504936203	-0.006156188161005	-0.000114205659163
315	massimi	1.958865	1.395698	2.322843	0.004701551207891	0.006352419317698	0.000103029647645
315	minimi	-1.995062	-1.307995	-15.209015	-0.00431393388486	-0.00603993513694	-0.000105838298434
316	massimi	1.916645	1.456304	4.3423	0.004683562424009	0.006348005882551	0.000103844744722
316	minimi	-1.954424	-1.366924	-17.202371	-0.004357777108197	-0.005960448363525	-0.000106542289073
317	massimi	1.873943	1.456753	4.319862	0.004668849894563	0.00633351546277	0.000110785987497
317	minimi	-1.913275	-1.367401	-17.338414	-0.00441158316198	-0.005945123455659	-0.000113755597082
318	massimi	1.829897	1.457151	5.050354	0.004634935075936	0.00633440404853954	0.000105619275413
318	minimi	-1.870749	-1.36784	-18.192538	-0.004447255120859	-0.005944484156853	-0.000108268972349
319	massimi	1.873799	1.1893	-5.440763	0.003994616776038	0.006380536990014	0.00007209369896
319	minimi	-1.788586	-1.023215	-8.820173	-0.003865446307709	-0.006151224174718	-0.000062964741711
320	massimi	1.87401	1.206798	-2.801537	0.003976180033668	0.006295204936549	0.000070136648107
320	minimi	-1.789079	-1.03496	-11.553908	-0.003866869527143	-0.006209809234389	-0.000060931682375
321	massimi	1.87423	1.223869	0.700652	0.003987877172493	0.006163281544755	0.000070508106325
321	minimi	-1.789556	-1.046633	-15.067953	-0.003859607661653	-0.006222435237404	-0.00006203591077
322	massimi	1.903114	1.240212	4.093959	0.004006628403604	0.006080387965829	0.000068310641812
322	minimi	-1.82321	-1.057682	-18.306401	-0.003812230847144	-0.006220469406702	-0.000059879767514
323	massimi	1.931198	1.240117	3.931398	0.004037865011796	0.006075304339285	0.000070398687132
323	minimi	-1.856069	-1.057514	-18.014595	-0.003768282065465	-0.006214112714703	-0.000061236975078
324	massimi	1.957852	1.239807	5.000897	0.00405244561556	0.006085231503346	0.000066426121552
324	minimi	-1.887561	-1.057147	-18.917721	-0.003708796615346	-0.00622283663242	-0.000057903852377
325	massimi	1.983884	1.223575	3.165532	0.004071115371158	0.006168057279332	0.000064942730438
325	minimi	-1.918493	-1.046242	-16.939472	-0.003661355593165	-0.006224764092132	-0.000056200820506
326	massimi	1.983981	1.206798	0.959206	0.004062762285291	0.006295204936549	0.000070732816515
326	minimi	-1.918851	-1.03496	-14.720859	-0.003635373910675	-0.006209809234389	-0.000061556649347
327	massimi	1.984326	1.189473	0.687401	0.004064132964019	0.006375795976049	0.000066498588851
327	minimi	-1.919474	-1.023485	-14.354976	-0.003655274143517	-0.006148930040602	-0.000057099917225
328	massimi	1.958082	1.171767	0.156208	0.004047011947171	0.006412676258615	0.000068593168269

328	minimi	-1.888074	-1.011756	-13.859965	-0.003704069871379	-0.006105536042007	-0.000059162611562
329	massimi	1.931198	1.171839	-1.201681	0.004037865011796	0.006407360005051	0.000070567056627
329	minimi	-1.856069	-1.011729	-12.668436	-0.003768282065465	-0.006099222886489	-0.000061335009839
330	massimi	1.902887	1.171547	-2.274268	0.004011961228525	0.006417464635823	0.000070491560028
330	minimi	-1.822699	-1.011405	-11.725108	-0.003816856747643	-0.006107848107417	-0.000061152398199
331	massimi	1.657424	1.555173	0.85499	0.003859964810201	0.005346605697121	0.000108586985223
331	minimi	-1.747967	-1.511178	-17.263916	-0.003903824885223	-0.004877314520095	-0.000105597739779
332	massimi	1.656574	1.503615	-1.732376	0.003841496484944	0.005326807509377	0.000111619560367
332	minimi	-1.747189	-1.457791	-14.911716	-0.003909723952076	-0.005028562011477	-0.000108826122477
333	massimi	1.655636	1.449398	-4.151516	0.003866066198786	0.005267574127445	0.00011367861666
333	minimi	-1.746323	-1.401842	-12.628891	-0.003913072880674	-0.005142582568152	-0.000110864506091
334	massimi	1.704919	1.394387	-5.53591	0.00390686016601	0.00522267854785	0.000113036251903
334	minimi	-1.797172	-1.345172	-11.291617	-0.003874306852635	-0.005195492650987	-0.000110368400598
335	massimi	1.753624	1.394827	-5.339404	0.003959133479027	0.005210483439106	0.000112220925593
335	minimi	-1.847392	-1.345692	-11.442886	-0.003835974263216	-0.005182926598132	-0.000109416963208
336	massimi	1.801175	1.394672	-4.043961	0.003994968846994	0.005211078446897	0.000111438549211
336	minimi	-1.896379	-1.34562	-12.648512	-0.003781715096726	-0.005182761244965	-0.000108884767493
337	massimi	1.848305	1.449628	-3.813188	0.004035527589386	0.005256110340295	0.000108963412667
337	minimi	-1.944913	-1.402192	-12.696142	-0.003742721735945	-0.005130000921282	-0.000106485929923
338	massimi	1.847224	1.503615	-3.884604	0.004040727665217	0.005326807509377	0.000112123199705
338	minimi	-1.943897	-1.457791	-12.488215	-0.003727308821897	-0.005028562011477	-0.000109293817765
339	massimi	1.846467	1.554912	-1.584187	0.004042007113982	0.005358075028759	0.000103869627971
339	minimi	-1.943218	-1.510796	-14.553662	-0.003752347867407	-0.004889901711454	-0.000101217010352
340	massimi	1.800217	1.605484	1.315789	0.0039999806602	0.005364186185524	0.000104395069947
340	minimi	-1.895497	-1.563158	-17.264125	-0.003789195851452	-0.004800400087301	-0.000101599079647
341	massimi	1.753624	1.605736	1.897209	0.003959133479027	0.005351899255982	0.000111675468253
341	minimi	-1.847392	-1.563481	-17.935313	-0.003835974263216	-0.004788073463127	-0.000108852748991
342	massimi	1.705864	1.605852	2.606808	0.003902005380612	0.005352577278045	0.000105993779459
342	minimi	-1.798042	-1.563688	-18.690197	-0.003866983125718	-0.004787659874754	-0.000103083719573
343	massimi	1.871084	1.326933	-5.974615	0.003394907933284	0.005523385237985	0.000097777650015
343	minimi	-1.821737	-1.191712	-14.482342	-0.003425184991072	-0.005062982180029	-0.000089033697864
344	massimi	1.871361	1.343435	-7.035783	0.003369267541221	0.005430123004594	0.000096368873802
344	minimi	-1.822246	-1.202714	-13.635061	-0.003429822708298	-0.005187454754772	-0.000087570948934
345	massimi	1.871587	1.358108	-5.553542	0.003387807269445	0.005296658894557	0.000096477583282
345	minimi	-1.822682	-1.212179	-15.205672	-0.003420645570567	-0.00527352220239	-0.000105993779459
346	massimi	1.914857	1.373538	-3.249406	0.003436011035295	0.005214061551501	0.000094182645227
346	minimi	-1.870559	-1.222494	-17.470263	-0.003368014224416	-0.005314577396192	-0.000086036914016
347	massimi	1.957359	1.373381	-3.489162	0.003499304623736	0.005209690098399	0.000096696872042
347	minimi	-1.917661	-1.222297	-17.158728	-0.003316807330293	-0.005309450643208	-0.000087929316674
348	massimi	1.998491	1.372972	-3.594298	0.003548094658817	0.005218229137647	0.00009212452818
348	minimi	-1.963426	-1.22186	-16.925248	-0.003251854630253	-0.005317068614426	-0.000083930504354
349	massimi	2.039109	1.357696	-4.626701	0.003596095615458	0.005300775097704	0.000090401940317
349	minimi	-2.008721	-1.211716	-15.73083	-0.003199033164559	-0.005275981961923	-0.000082053303351
350	massimi	2.039211	1.343435	-5.827261	0.003597322054865	0.005430123004594	0.000097018507718
350	minimi	-2.009035	-1.202714	-14.441609	-0.003173442372884	-0.005187454754772	-0.000088235799874
351	massimi	2.039626	1.327248	-4.819965	0.003588971692605	0.005519275501414	0.000091701743421
351	minimi	-2.009679	-1.192078	-15.23531	-0.003194469485039	-0.005060528887072	-0.000082815275488
352	massimi	1.99876	1.310329	-3.11722	0.003542509197739	0.005562146017635	0.00009396126296
352	minimi	-1.963927	-1.180823	-16.796856	-0.00324827803037	-0.004981540106078	-0.000085023430283
353	massimi	1.957359	1.310321	-3.574294	0.003499304623736	0.005557554510918	0.000096823080241
353	minimi	-1.917661	-1.180751	-16.468086	-0.003316807330293	-0.004976613898449	-0.000087997926816
354	massimi	1.914591	1.30992	-3.818525	0.003441586835364	0.005566303333238	0.000096021404486
354	minimi	-1.870061	-1.180346	-16.295674	-0.00337158116329	-0.004984021053768	-0.000087131864424
355	massimi	2.262443	2.556235	-1.273898	0.004558797770897	0.005865374998876	0.000236585418103
355	minimi	-2.133385	-2.320344	-19.621382	-0.0049198904687	-0.005617635133391	-0.000203978332039
356	massimi	2.263147	2.591128	0.545349	0.004549749452982	0.005768625657349	0.000234015999843
356	minimi	-2.134232	-2.344581	-21.503524	-0.004922952257111	-0.005619957683896	-0.000201023148304
357	massimi	2.263631	2.624669	2.365823	0.004556608074768	0.005662592546742	0.00023333742983
357	minimi	-2.134843	-2.367619	-23.357637	-0.004918140945455	-0.005613235914784	-0.000201225289065
358	massimi	2.325216	2.657678	3.633997	0.004580927422404	0.005594149427212	0.000230321009002
358	minimi	-2.206934	-2.390177	-24.737781	-0.00487605978446	-0.005611273605623	-0.000198320287815
359	massimi	2.386137	2.657458	3.166075	0.004619646594963	0.005579703749111	0.000234261695067
359	minimi	-2.278355	-2.389904	-24.34803	-0.004815273965878	-0.005609294446407	-0.000201259766636
360	massimi	2.445792	2.657204	3.219736	0.004651052458666	0.005598909899322	0.000226028697776
360	minimi	-2.348578	-2.389585	-24.450547	-0.004746859754649	-0.005616613286974	-0.000193811603579
361	massimi	2.505115	2.624391	2.814153	0.004672374562204	0.005666986698088	0.000225612108877
361	minimi	-2.418539	-2.367271	-24.060235	-0.00470164603185	-0.00561816521198	-0.000193110511203
362	massimi	2.505706	2.591128	1.638316	0.004671526084835	0.005768625657349	0.000234295682407
362	minimi	-2.419253	-2.344581	-22.850793	-0.004688801596338	-0.005619957683896	-0.000201316931296

363	massimi	2.506326	2.556505	0.500038	0.004670089179475	0.005860992961576	0.000228861410942
363	minimi	-2.420021	-2.320684	-21.649586	-0.004699800822005	-0.005612717950241	-0.000195864867969
364	massimi	2.446509	2.521275	-1.596166	0.004648958578119	0.005925107075928	0.000231876754016
364	minimi	-2.349455	-2.296257	-19.441412	-0.004745172560798	-0.005610410026182	-0.000198768791465
365	massimi	2.386137	2.521138	-2.547904	0.004619646594963	0.005934692910172	0.00023404998517
365	minimi	-2.278355	-2.296045	-18.440793	-0.004815273965878	-0.005608356314842	-0.00020108031095
366	massimi	2.324506	2.520827	-3.180072	0.004582968333304	0.005929845664143	0.000236167749173
366	minimi	-2.206063	-2.295691	-17.730479	-0.004877694008664	-0.005615727823638	-0.000203276159631
367	massimi	1.286023	1.585603	-0.59214	0.003723128864566	0.004464409241439	0.000119986204259
367	minimi	-1.38791	-1.574889	-16.005376	-0.003868220900859	-0.003846805857697	-0.000117790264212
368	massimi	1.28569	1.532834	-2.569469	0.003700785927982	0.00443222425975	0.000124209365053
368	minimi	-1.387594	-1.52079	-14.354595	-0.003871360535544	-0.003989209199445	-0.000122186834244
369	massimi	1.285365	1.477521	-4.389966	0.003720289879149	0.004367231949108	0.000125276103682
369	minimi	-1.38729	-1.464173	-12.75935	-0.003870055897917	-0.004102085369742	-0.000123126193003
370	massimi	1.305147	1.42146	-5.917777	0.003761201340821	0.004320603137621	0.000125109951895
370	minimi	-1.408256	-1.406859	-11.421215	-0.003829158255692	-0.00415633460991	-0.00012309361382
371	massimi	1.347841	1.421687	-6.292884	0.003815745660132	0.004309699723021	0.000124758353978
371	minimi	-1.452083	-1.407178	-11.055074	-0.003790351774487	-0.004145679815399	-0.000122716905582
372	massimi	1.40234	1.421307	-5.118818	0.003854446739511	0.004309411520983	0.000123966369692
372	minimi	-1.507628	-1.406887	-12.192328	-0.003735807491014	-0.004144909732356	-0.000122076843606
373	massimi	1.456898	1.477423	-4.351023	0.003895126872016	0.004356173151728	0.000121901085561
373	minimi	-1.56319	-1.46421	-12.7424	-0.003694680146872	-0.004090796083708	-0.000120125406481
374	massimi	1.455858	1.532834	-4.023088	0.003895935689766	0.00443222425975	0.000124569830951
374	minimi	-1.562163	-1.52079	-12.845043	-0.003674805695609	-0.003989209199445	-0.000122507340881
375	massimi	1.455147	1.585669	-2.243295	0.003892594499867	0.004475468715325	0.000116609915374
375	minimi	-1.561477	-1.574821	-14.298328	-0.003696821757199	-0.003858095820237	-0.000114788206926
376	massimi	1.401433	1.637813	-0.392797	0.003852401101958	0.004489842541465	0.000116649519134
376	minimi	-1.506742	-1.628217	-15.813003	-0.003737429229109	-0.003774831710215	-0.000114696335206
377	massimi	1.347841	1.637847	0.022148	0.003815745660132	0.004478833986407	0.000124191714443
377	minimi	-1.452083	-1.628336	-16.264689	-0.003790351774487	-0.003764411754807	-0.00012214533632
378	massimi	1.305504	1.637744	0.723387	0.00376337429796	0.004478649850403	0.000117793694552
378	minimi	-1.408594	-1.628328	-16.957034	-0.003827663837184	-0.003763405758237	-0.000115713698635
379	massimi	1.440679	1.33244	-7.140753	0.003200011890374	0.004474790637002	0.000123274529443
379	minimi	-1.417821	-1.256282	-15.291496	-0.003432137514149	-0.003893447222878	-0.000119193477969
380	massimi	1.440436	1.354288	-7.716203	0.003172294208021	0.004359876817433	0.000123284238081
380	minimi	-1.417708	-1.275566	-14.99708	-0.0034381886096	-0.004021212020459	-0.000119204017965
381	massimi	1.440206	1.37551	-6.441744	0.003192887090401	0.00421268974069	0.000121759439386
381	minimi	-1.417596	-1.294387	-16.412331	-0.003428585757989	-0.004119211082193	-0.000117979262213
382	massimi	1.461649	1.396217	-5.25848	0.003249915205208	0.004123949347287	0.000119818402664
382	minimi	-1.441166	-1.312746	-17.703003	-0.00337262556609	-0.004169176093058	-0.000116076142771
383	massimi	1.511699	1.396131	-5.639619	0.003322783076429	0.004120728153182	0.000123543966203
383	minimi	-1.493338	-1.31264	-17.350593	-0.003317406703955	-0.004166103866378	-0.000119480532916
384	massimi	1.568676	1.395815	-5.421566	0.003381874327712	0.004127798933338	0.000118194343403
384	minimi	-1.552453	-1.312313	-17.534021	-0.003248433545131	-0.00417297629329	-0.000114429747451
385	massimi	1.625667	1.375219	-6.473039	0.003438707469351	0.004216492605621	0.000116966499713
385	minimi	-1.611602	-1.294071	-16.369202	-0.003192278724441	-0.004122965148275	-0.000113120406856
386	massimi	1.625937	1.354288	-7.518529	0.003442869008841	0.004359876817433	0.000123796184144
386	minimi	-1.611992	-1.275566	-15.182912	-0.003166271062655	-0.004021212020459	-0.000119722959409
387	massimi	1.626561	1.332647	-6.919402	0.003431561168372	0.004470991171225	0.000118479767825
387	minimi	-1.612744	-1.256513	-15.501014	-0.003188705467276	-0.003889696555949	-0.000114332800667
388	massimi	1.569023	1.310492	-5.970352	0.003376270974091	0.004527830726383	0.000120288171665
388	minimi	-1.552929	-1.23701	-16.140249	-0.003245633733256	-0.003810306110689	-0.000116107472919
389	massimi	1.511699	1.310568	-6.403351	0.003322783076429	0.004524357455052	0.000123706137215
389	minimi	-1.493338	-1.237055	-15.74182	-0.003317406703955	-0.003807452812787	-0.000119610482326
390	massimi	1.461888	1.310226	-6.345777	0.003255509628607	0.004531674913804	0.00012191308087
390	minimi	-1.441276	-1.236713	-15.77072	-0.003375416447743	-0.003814100912291	-0.000117754718182
391	massimi	1.80486	2.804036	-5.323633	0.003111090957713	0.004874430757615	0.000154760656554
391	minimi	-1.727021	-2.58147	-20.391008	-0.003319094432859	-0.004260400855117	-0.000145920354896
392	massimi	1.805016	2.821666	-3.940001	0.003100167616176	0.00477379138942	0.000152675679613
392	minimi	-1.727302	-2.596202	-21.952208	-0.003323863268513	-0.004282872707894	-0.000143810860409
393	massimi	1.805099	2.837729	-2.549859	0.003108955796269	0.004665464243518	0.00015177743756
393	minimi	-1.727506	-2.609508	-23.483548	-0.0033184127772711	-0.004298447472523	-0.000143389756037
394	massimi	1.806519	2.853117	-1.414856	0.003149737121181	0.004594753669211	0.000149481507492
394	minimi	-1.731687	-2.622196	-24.779085	-0.003276619136279	-0.004310426989308	-0.000141216985391
395	massimi	1.841407	2.853	-1.380724	0.0032126688722	0.004579650900146	0.000152862366991
395	minimi	-1.769329	-2.622038	-24.832322	-0.003215371338506	-0.004310704972054	-0.000143987514499
396	massimi	1.877344	2.852803	-1.299619	0.003272068398367	0.004597518183963	0.00014673636685
396	minimi	-1.808067	-2.621803	-24.896077	-0.003150586963202	-0.004313199505463	-0.000138327148975
397	massimi	1.9133	2.837543	-2.564355	0.003311859444821	0.004668017193024	0.000146825260232

397	minimi	-1.846872	-2.609275	-23.472564	-0.003107801178984	-0.004301007814725	-0.000138177136017
398	massimi	1.913946	2.821666	-3.916779	0.003315344500599	0.00477379138942	0.000152855499859
398	minimi	-1.847637	-2.596202	-21.978943	-0.003097043055047	-0.004282872707894	-0.000144000110077
399	massimi	1.914595	2.804219	-5.245544	0.003309376311317	0.004871881463801	0.000149781349649
399	minimi	-1.848413	-2.5817	-20.472609	-0.003106771546776	-0.004257844168607	-0.000140680605299
400	massimi	1.878108	2.786061	-6.719084	0.003269791368695	0.004939084105841	0.000152068735841
400	minimi	-1.808978	-2.566551	-18.838535	-0.003149652859594	-0.004242695684955	-0.000142844832069
401	massimi	1.841407	2.785981	-6.832081	0.0032126688722	0.004948992620652	0.000152668796493
401	minimi	-1.769329	-2.566425	-18.742805	-0.003215371338506	-0.004238049594671	-0.000143823439999
402	massimi	1.806483	2.785753	-6.87653	0.003151728474955	0.004941842016906	0.000154840996055
402	minimi	-1.731503	-2.566165	-18.679334	-0.00327726756399	-0.004245461597422	-0.000145761788058
403	massimi	1.168235	1.59156	-1.516782	0.003717352517437	0.004155433140958	0.000108972830353
403	minimi	-1.306145	-1.58671	-15.069403	-0.003877591551752	-0.003551232408563	-0.00011647746812
404	massimi	1.168063	1.539414	-3.187493	0.003691697796662	0.0041203896878	0.000113620848898
404	minimi	-1.305959	-1.539351	-13.716905	-0.0036977307050586	-0.003690723100062	-0.000121603789965
405	massimi	1.167911	1.484643	-4.331164	0.003706412497835	0.004054864833373	0.000114331297862
405	minimi	-1.305821	-1.489366	-12.790195	-0.003871184683009	-0.003802913713474	-0.000121836177008
406	massimi	1.182913	1.42893	-5.543797	0.003745736706971	0.004010555414467	0.000114593785107
406	minimi	-1.316637	-1.438504	-11.767275	-0.003828731538579	-0.003859413092294	-0.000122248302206
407	massimi	1.198027	1.428949	-6.265956	0.003800669743498	0.004003926104602	0.000114099978086
407	minimi	-1.327521	-1.438625	-11.062378	-0.003790418574247	-0.003853085857184	-0.000122063578322
408	massimi	1.121808	1.42836	-5.499187	0.003839824624845	0.004007167151486	0.00011370362398
408	minimi	-1.337963	-1.438159	-11.800644	-0.003736370018497	-0.003855930665026	-0.000121682410338
409	massimi	1.231695	1.48423	-4.172637	0.003878924296869	0.004051517959928	0.000112196240575
409	minimi	-1.352441	-1.48912	-12.926158	-0.003693692993855	-0.003799473794867	-0.000120166004936
410	massimi	1.231303	1.539414	-3.352532	0.003875002015944	0.0041203896878	0.000113848894911
410	minimi	-1.352054	-1.539351	-13.529286	-0.003668984234085	-0.003690723100062	-0.00012178219701
411	massimi	1.231082	1.59195	-1.506088	0.003868243994152	0.004158775971975	0.000106836759506
411	minimi	-1.351827	-1.586934	-15.057534	-0.003687545841997	-0.003554668284742	-0.000114806282487
412	massimi	1.212587	1.643636	-0.132446	0.003831394886003	0.004173031418111	0.000106458928205
412	minimi	-1.337742	-1.633712	-16.095345	-0.003731497153726	-0.003471255851223	-0.000114270642322
413	massimi	1.198027	1.643452	-0.164752	0.003800669743498	0.004166304838985	0.000113526006674
413	minimi	-1.327521	-1.63365	-16.091473	-0.003790418574247	-0.003465171259091	-0.000121489581059
414	massimi	1.183101	1.643127	0.242441	0.003754274297628	0.004169649576408	0.000107182824281
414	minimi	-1.316825	-1.633427	-16.481473	-0.003833712255166	-0.003467779845233	-0.0001148370707557
415	massimi	1.292272	1.337416	-7.455768	0.003142449997385	0.004177536833274	0.000106822132796
415	minimi	-1.313071	-1.297675	-15.277658	-0.003463920312906	-0.003596138822964	-0.000109513794664
416	massimi	1.292169	1.352147	-7.949592	0.003114912833158	0.004063256593938	0.000107216740826
416	minimi	-1.313025	-1.314115	-15.063526	-0.003470521826454	-0.003728756859381	-0.000110096247233
417	massimi	1.292103	1.365784	-7.254351	0.003135814977478	0.003918898852828	0.000105584558774
417	minimi	-1.313022	-1.32954	-15.895713	-0.003460814393803	-0.003833774076648	-0.000108421578891
418	massimi	1.305358	1.378776	-6.240229	0.003193506782975	0.003830810703694	0.000104231199622
418	minimi	-1.324711	-1.344363	-17.059676	-0.003403406317365	-0.003886958412709	-0.000107115678986
419	massimi	1.31856	1.378741	-6.338983	0.00326687385295	0.003825369871601	0.000107395620217
419	minimi	-1.33634	-1.344334	-17.03685	-0.003346496542228	-0.003882047472663	-0.000110281477817
420	massimi	1.331228	1.378441	-6.115056	0.003326693838393	0.003829506422754	0.000103091735917
420	minimi	-1.347422	-1.344059	-17.272161	-0.003275709081	-0.003886385523007	-0.000105997845421
421	massimi	1.347734	1.365537	-7.009207	0.003384191307212	0.003917608345459	0.000102221434515
421	minimi	-1.36233	-1.329316	-16.31611	-0.003218101567741	-0.003833206267641	-0.000105122287091
422	massimi	1.34762	1.352147	-7.8283	0.003388940893961	0.004063256593938	0.000107577856351
422	minimi	-1.362279	-1.314115	-15.360197	-0.003191848634866	-0.003728756859381	-0.000110450547092
423	massimi	1.347676	1.337606	-7.377476	0.003377535914644	0.004178833383856	0.000103438399152
423	minimi	-1.362392	-1.297842	-15.531203	-0.003214975275978	-0.003596712675184	-0.000106193893479
424	massimi	1.331152	1.322776	-6.628681	0.003321475488785	0.004237245650254	0.000104768015728
424	minimi	-1.347408	-1.281316	-15.923942	-0.003273259793834	-0.003516288143903	-0.000107473097848
425	massimi	1.31856	1.322844	-6.894843	0.00326687385295	0.004231549077432	0.000107546431477
425	minimi	-1.33634	-1.281399	-15.646342	-0.003346496542228	-0.00351160133277	-0.000110416722191
426	massimi	1.305443	1.322526	-6.632635	0.003198716670551	0.004235931771212	0.000105914930423
426	minimi	-1.324733	-1.281097	-15.832675	-0.003405847142499	-0.003515705656099	-0.000108598382403
427	massimi	1.457467	2.656169	-8.023196	0.002754273549533	0.00380651893188	0.000452932056457
427	minimi	-1.335726	-2.619103	-19.825875	-0.003538381946552	-0.003682171897251	-0.000446590364003
428	massimi	1.457705	2.702931	-6.888579	0.002743602978369	0.003707214222834	0.000454855234177
428	minimi	-1.335986	-2.663767	-20.977076	-0.003543613539237	-0.003717300331445	-0.000448246390899
429	massimi	1.457614	2.748896	-5.743355	0.002753320465128	0.003601940643595	0.000449859571143
429	minimi	-1.335917	-2.707658	-22.099167	-0.003537398999416	-0.003746443650434	-0.000443596499649
430	massimi	1.585659	2.794896	-4.59069	0.002797397498778	0.003531860020767	0.000447564960368
430	minimi	-1.466007	-2.751583	-23.43042	-0.003491346477624	-0.003766620661063	-0.000441238927361
431	massimi	1.713446	2.794793	-4.573982	0.002864655794733	0.003515435196428	0.000455042396628
431	minimi	-1.595869	-2.751417	-23.648592	-0.003423879012023	-0.003767398384774	-0.000448438682563

432	massimi	1.840498	2.794678	-4.530976	0.002927393304739	0.003530169802771	0.000444893551063
432	minimi	-1.725068	-2.751236	-23.853253	-0.003350990057411	-0.003766586178937	-0.000438331480121
433	massimi	1.967467	2.748772	-5.582317	0.002969633198035	0.00360037690633	0.000445052493315
433	minimi	-1.854228	-2.707458	-22.987061	-0.003302713574124	-0.003746409688796	-0.000438364569363
434	massimi	1.967473	2.702931	-6.703298	0.002974569235467	0.003707214222834	0.000455029217815
434	minimi	-1.854251	-2.663767	-21.889308	-0.003290785606072	-0.003717300331445	-0.000448435756474
435	massimi	1.967672	2.656279	-7.806042	0.002968608182729	0.003808088774155	0.000448128226939
435	minimi	-1.854476	-2.61929	-20.769885	-0.003301658696088	-0.003682211963898	-0.000441361682028
436	massimi	1.840613	2.609701	-9.060304	0.002926459280565	0.003875741685587	0.000450428339713
436	minimi	-1.725209	-2.574889	-19.337035	-0.003350028442317	-0.003659474304952	-0.000443724756316
437	massimi	1.713446	2.609715	-9.13673	0.002864655794733	0.003884293165118	0.000454842065661
437	minimi	-1.595869	-2.574836	-19.098955	-0.003423879012023	-0.003652462163201	-0.000448243475105
438	massimi	1.58556	2.609528	-9.165357	0.002798291702741	0.003874040438819	0.000453096500947
438	minimi	-1.465883	-2.574587	-18.868863	-0.003492268272507	-0.003659428794056	-0.000446628955484
439	massimi	1.043383	1.599459	-1.883571	0.003730668085928	0.003978248707061	0.0001205533032588
439	minimi	-1.237851	-1.6023	-14.587901	-0.003930781885417	-0.00355478433167	-0.000142353580781
440	massimi	1.044299	1.525033	-3.30802	0.003702648911154	0.003943252018649	0.000126353967688
440	minimi	-1.23871	-1.541676	-13.369471	-0.003926808895115	-0.003692703108148	-0.000149091081536
441	massimi	1.045361	1.447966	-4.356614	0.003712552871685	0.003879109191662	0.000125975773817
441	minimi	-1.239777	-1.478375	-12.42693	-0.003915310060354	-0.003803307015732	-0.000147712715046
442	massimi	1.03417	1.369808	-5.43285	0.003748341990176	0.003836109690379	0.00012670140357
442	minimi	-1.216485	-1.414068	-11.452077	-0.003870504956346	-0.003859265270668	-0.000148616465226
443	massimi	1.041323	1.369671	-6.364253	0.003801246651396	0.003830163344178	0.000126771098113
443	minimi	-1.211498	-1.414051	-10.560179	-0.003832090886885	-0.003853595384192	-0.00014948778275
444	massimi	1.048848	1.368831	-5.579338	0.003838369671984	0.003833668182822	0.000126447895139
444	minimi	-1.206743	-1.413386	-11.339413	-0.00377767108792	-0.00385710708937	-0.000148569977529
445	massimi	1.057111	1.447241	-3.875597	0.003873933174834	0.003876697141219	0.00012522768978
445	minimi	-1.20261	-1.47787	-12.975836	-0.003732734412633	-0.003801174924269	-0.000126190316888
446	massimi	1.056939	1.525033	-2.641761	0.003865194467863	0.003943252018649	0.000126433845266
446	minimi	-1.202432	-1.541676	-14.103669	-0.003702440692908	-0.003692703108148	-0.000149105725569
447	massimi	1.056878	1.600175	-1.076456	0.003856066992886	0.003980635325775	0.000119805104794
447	minimi	-1.202324	-1.602797	-15.462905	-0.003717511619865	-0.003556914827704	-0.000142216586555
448	massimi	1.048754	1.67436	0.352683	0.003824303373359	0.003994856411207	0.000118948543704
448	minimi	-1.206622	-1.662993	-16.646301	-0.003765774908896	-0.003474005681841	-0.000141158593454
449	massimi	1.041323	1.673902	-0.293693	0.003801246651396	0.003988813032805	0.000126190316888
449	minimi	-1.211498	-1.662714	-16.005567	-0.003832090886885	-0.003468574584519	-0.000148913813807
450	massimi	1.0342	1.673404	-0.02281	0.003762511682523	0.003992417438078	0.000119201978556
450	minimi	-1.216542	-1.662331	-16.236985	-0.003882600549966	-0.003471850034972	-0.000141205007572
451	massimi	1.11406	1.312377	-7.438401	0.003091179609536	0.004051668671545	0.000105446426032
451	minimi	-1.159251	-1.31527	-14.792672	-0.00350973546293	-0.003632833743891	-0.000109370192597
452	massimi	1.113937	1.339407	-7.735328	0.003064919237374	0.00393462617935	0.000106788515648
452	minimi	-1.159113	-1.344788	-14.675954	-0.003515784583188	-0.003757097773154	-0.000110896913322
453	massimi	1.113901	1.364807	-6.603663	0.003085756559454	0.003788468246159	0.000104047301887
453	minimi	-1.159075	-1.372666	-15.84853	-0.003506185405787	-0.003853560806466	-0.000107950501299
454	massimi	1.112216	1.389635	-5.134644	0.003141428564761	0.003699528818432	0.000103176829937
454	minimi	-1.155215	-1.399988	-17.428059	-0.003449575059708	-0.003902096775233	-0.000107122420664
455	massimi	1.110878	1.389618	-5.582091	0.00321208620417	0.003694169852917	0.000106875434502
455	minimi	-1.151691	-1.400002	-17.111753	-0.003393782789311	-0.003897552378005	-0.000110977725339
456	massimi	1.109468	1.389392	-5.371014	0.003269428177277	0.003698076015741	0.000102618069873
456	minimi	-1.14806	-1.399816	-17.390934	-0.003323920429792	-0.003902312985378	-0.000106613309589
457	massimi	1.108399	1.364623	-6.61419	0.003324917211974	0.003787026600042	0.000102397129513
457	minimi	-1.144746	-1.372534	-16.237924	-0.003267115474726	-0.003853768336303	-0.000106446847489
458	massimi	1.108311	1.339407	-7.294785	0.003329871387797	0.00393462617935	0.000106965087054
458	minimi	-1.144653	-1.344788	-15.516708	-0.003240735567737	-0.003757097773154	-0.000111057840311
459	massimi	1.108299	1.312526	-6.951795	0.003319468725436	0.004053131647782	0.000103789585372
459	minimi	-1.144628	-1.315366	-15.679197	-0.003263539981128	-0.003632647544174	-0.000107859870501
460	massimi	1.109407	1.285778	-6.036329	0.003265157715686	0.004113357940339	0.000104547052212
460	minimi	-1.147991	-1.286084	-16.282676	-0.00332111958743	-0.003556675904699	-0.000108570735866
461	massimi	1.110878	1.285892	-6.667646	0.003212086204169	0.004107726574524	0.000107024929457
461	minimi	-1.151691	-1.28624	-15.583228	-0.003393782789311	-0.003552327951048	-0.000111129422896
462	massimi	1.112292	1.285572	-6.427305	0.0031456884612	0.004111871260156	0.000105108937497
462	minimi	-1.155299	-1.28595	-15.692456	-0.003452365336918	-0.003556858237351	-0.000109082972162
463	massimi	1.329615	2.474326	-7.442043	0.002689971804842	0.002460322999382	0.000353569239165
463	minimi	-1.076774	-2.608034	-18.765122	-0.003714904499394	-0.003388279437913	-0.000340056602904
464	massimi	1.329823	2.512238	-6.405615	0.002680937010776	0.002371324120043	0.000355637383546
464	minimi	-1.07691	-2.641474	-19.47792	-0.003718913449175	-0.003425120057634	-0.00034135167697
465	massimi	1.329747	2.549196	-5.342747	0.002690609800122	0.002278513242305	0.000353212171382
465	minimi	-1.076763	-2.673879	-20.18016	-0.003712422438709	-0.00345645140102	-0.000339440092859
466	massimi	1.438731	2.585997	-4.334907	0.002730308915856	0.002216500861556	0.000352042508176

466	minimi	-1.190223	-2.706057	-21.109999	-0.003668268082166	-0.003478236552503	-0.000337970785491
467	massimi	1.547398	2.585989	-4.368705	0.00279032681443	0.002202561063722	0.000355733089689
467	minimi	-1.303448	-2.705924	-21.35894	-0.003604278660432	-0.003479905634656	-0.000341471793881
468	massimi	1.655328	2.585959	-4.337242	0.002845917444309	0.002214795172433	0.000349462659104
468	minimi	-1.416088	-2.705752	-21.636185	-0.003534550992746	-0.003478940794203	-0.000334901205487
469	massimi	1.763117	2.549178	-5.29021	0.002883792054387	0.002276933977298	0.000348570484392
469	minimi	-1.528654	-2.673702	-21.290639	-0.003488009110679	-0.00345709873115	-0.000333916923027
470	massimi	1.76313	2.512238	-6.323754	0.00288881312711	0.002371324120043	0.000355805350738
470	minimi	-1.528587	-2.641474	-20.617861	-0.003475509884208	-0.003425120057634	-0.000341551558567
471	massimi	1.763304	2.474333	-7.338711	0.002884383984693	0.002461911904664	0.000348932429514
471	minimi	-1.528699	-2.6082	-19.926395	-0.00348548098502	-0.003387641748058	-0.000334538310411
472	massimi	1.655432	2.436287	-8.479631	0.00284647278262	0.002522433546949	0.0003501122026
472	minimi	-1.416108	-2.574726	-18.863477	-0.003532223633609	-0.003363453599636	-0.000336017727659
473	massimi	1.547398	2.436373	-8.574994	0.00279032681443	0.002530709687861	0.000355709663513
473	minimi	-1.303448	-2.574677	-18.522511	-0.003604278660432	-0.003356774577494	-0.000341431460574
474	massimi	1.438642	2.436284	-8.568912	0.00272972807247	0.002520710441216	0.000352687173815
474	minimi	-1.190219	-2.574455	-18.245675	-0.003670569936228	-0.003364140424726	-0.000339082429806
475	massimi	1.189868	1.300095	1.355883	0.004403419485004	0.004027548696011	0.000089218618929
475	minimi	-1.485317	-1.362266	-16.176414	-0.004745292875909	-0.003747501891756	-0.000082080933669
476	massimi	1.190807	1.314093	0.209884	0.004369542335724	0.00399289659823	0.000090263161663
476	minimi	-1.486164	-1.371909	-15.153265	-0.004732026412542	-0.00386729717384	-0.000083425901106
477	massimi	1.191796	1.32601	-0.578255	0.004378122138178	0.003928841189416	0.000087960010784
477	minimi	-1.487064	-1.379351	-14.398717	-0.004721320652225	-0.003958619104009	-0.000080601356568
478	massimi	1.199482	1.336992	-2.06941	0.004416853227895	0.003890989660877	0.000087184608207
478	minimi	-1.49878	-1.385929	-13.026385	-0.004687999457093	-0.004009011541764	-0.00008014698432
479	massimi	1.20697	1.336234	-4.056314	0.004476408895128	0.003894365058556	0.000090337441635
479	minimi	-1.510154	-1.38545	-11.163945	-0.004666528092562	-0.004013261516845	-0.0000834255026
480	massimi	1.213872	1.335212	-5.700942	0.004517390458597	0.003907335380073	0.000086687810426
480	minimi	-1.52069	-1.384674	-9.603333	-0.00462569323251	-0.004027103641125	-0.000080019013241
481	massimi	1.2207	1.324685	-3.776956	0.004555896765312	0.00394503259223	0.000086489589103
481	minimi	-1.531021	-1.378417	-11.618475	-0.004592135071466	-0.003976536131587	-0.000080219369891
482	massimi	1.221618	1.314093	-2.070236	0.004542543363998	0.00399289659823	0.000090421382705
482	minimi	-1.53183	-1.371909	-13.291907	-0.004558557861988	-0.00386729717384	-0.000083467902516
483	massimi	1.222653	1.301412	0.128668	0.004530869616855	0.004011218174715	0.000087726187836
483	minimi	-1.532793	-1.363192	-15.367658	-0.00456843304615	-0.003729445745694	-0.000082676937579
484	massimi	1.214893	1.287816	1.585218	0.004497701616624	0.004019793433833	0.000088407895129
484	minimi	-1.521616	-1.353647	-16.576117	-0.004607044130066	-0.003650674103939	-0.000082044694288
485	massimi	1.20697	1.287122	1.628659	0.004476408895128	0.004023200415463	0.000090471110485
485	minimi	-1.510154	-1.353213	-16.535521	-0.004666528092562	-0.003655256380846	-0.00008358283714
486	massimi	1.198467	1.286057	1.950437	0.00443665426199	0.004036360083467	0.000088915017773
486	minimi	-1.49786	-1.352413	-16.732855	-0.004706760751658	-0.003668987133739	-0.000082182990228
487	massimi	1.47743	1.241661	-4.935495	0.003636787573843	0.004016076696913	0.000169884000153
487	minimi	-1.497289	-1.295137	-14.098099	-0.004176059635901	-0.003826452388752	-0.000173153452369
488	massimi	1.477913	1.172261	-4.701851	0.003611700546639	0.003901757826379	0.000176439835574
488	minimi	-1.497681	-1.227794	-14.381424	-0.004177056945403	-0.003916624913286	-0.0001797266087
489	massimi	1.478667	1.101604	-3.539702	0.003633108236308	0.003758588270946	0.000172277730546
489	minimi	-1.498352	-1.159078	-15.475374	-0.00417223444883	-0.003977836674939	-0.000175334938591
490	massimi	1.438766	1.031186	-2.104858	0.003682892008208	0.00367461870153	0.000172923497614
490	minimi	-1.456734	-1.090565	-17.002036	-0.004126946306084	-0.004009879790453	-0.000175957664779
491	massimi	1.39944	1.031402	-2.836843	0.003747559005868	0.003675210562867	0.000176643977421
491	minimi	-1.415692	-1.090797	-16.482014	-0.004085405755599	-0.004011806499698	-0.000179918526223
492	massimi	1.360393	1.031034	-3.229865	0.003797314930685	0.003685009503595	0.000173211903327
492	minimi	-1.374917	-1.090441	-16.247504	-0.004027551357983	-0.004023373956079	-0.000176265841343
493	massimi	1.346711	1.101477	-4.584571	0.003847621358481	0.003768861061501	0.000173127967402
493	minimi	-1.359488	-1.158972	-15.174116	-0.003982775234676	-0.003991175944345	-0.000176243520976
494	massimi	1.346591	1.172261	-5.785715	0.003850508687259	0.003901757826379	0.000176349295539
494	minimi	-1.359284	-1.227794	-14.041711	-0.00395775407969	-0.003916624913286	-0.000179629838862
495	massimi	1.346582	1.241809	-5.601124	0.003843530864708	0.004005785077866	0.000170729839433
495	minimi	-1.359185	-1.295265	-14.176081	-0.00397852788742	-0.003813094290853	-0.000174057637178
496	massimi	1.360991	1.311585	-5.568859	0.00379411752162	0.004061136458481	0.000169897458134
496	minimi	-1.375423	-1.362918	-13.945605	-0.0040242308759	-0.003752287459543	-0.000173244925348
497	massimi	1.39944	1.311484	-6.14237	0.003747559005868	0.00406150473224	0.000176387398779
497	minimi	-1.415692	-1.362843	-13.213584	-0.004085405755599	-0.003754388325133	-0.000179684677495
498	massimi	1.43813	1.311417	-5.784551	0.003685792106782	0.004071557166943	0.00016961111489
498	minimi	-1.456189	-1.362779	-13.359437	-0.004129969477677	-0.003765811531566	-0.000172938811255
499	massimi	1.888212	2.238126	-4.420081	0.00243235629788	0.003708650772689	0.000152695901625
499	minimi	-1.807621	-2.579722	-12.534	-0.003987936102636	-0.003966200231723	-0.000183442729207
500	massimi	1.888641	2.24756	-3.158808	0.002426149634073	0.00364931160779	0.000157932575685
500	minimi	-1.807845	-2.59915	-13.697366	-0.003990094385292	-0.00398811141723	-0.000188538596412

501	massimi	1.889087	2.25597	-1.889537	0.002432121195831	0.003584098390875	0.000153387851831
501	minimi	-1.80811	-2.617334	-14.844552	-0.003986697889522	-0.004003602868754	-0.000183428860204
502	massimi	1.84634	2.264076	-1.038527	0.002455120761315	0.003541241612382	0.000154893883687
502	minimi	-1.755517	-2.635108	-16.046665	-0.003954826675475	-0.004015868668991	-0.000184571820651
503	massimi	1.803294	2.264079	-1.17463	0.002490398052953	0.003530677612932	0.000157810351691
503	minimi	-1.702703	-2.635053	-16.383242	-0.00390879207862	-0.004017170550673	-0.000188445950342
504	massimi	1.759423	2.264012	-1.169019	0.00252171664905	0.00354128381696	0.000157952742854
504	minimi	-1.649128	-2.634933	-16.837174	-0.003856514274777	-0.004020110423579	-0.000187428744426
505	massimi	1.71537	2.255927	-2.293407	0.002543070104762	0.003584134122298	0.000158880297417
505	minimi	-1.595353	-2.617225	-16.284254	-0.003822015831472	-0.004007518669072	-0.000188557835624
506	massimi	1.715908	2.24756	-3.43224	0.002544877951861	0.00364931160779	0.00015773431646
506	minimi	-1.595706	-2.59915	-15.267746	-0.003812091782656	-0.00398811141723	-0.000188353496756
507	massimi	1.716285	2.238178	-4.490914	0.002542781594113	0.003708624688597	0.000158154674067
507	minimi	-1.595882	-2.579841	-14.306739	-0.003820724209757	-0.003962294078736	-0.000188538031482
508	massimi	1.759961	2.228492	-5.683941	0.002521459985207	0.00374896791298	0.00015665983987
508	minimi	-1.649437	-2.560097	-12.76261	-0.003855330811626	-0.003946960891543	-0.000187406268694
509	massimi	1.803294	2.228497	-5.828206	0.002490398052953	0.003753485393641	0.000157856561408
509	minimi	-1.702703	-2.560065	-12.170081	-0.00390879207862	-0.003943247410957	-0.000188446163781
510	massimi	1.845814	2.228394	-5.867324	0.002455347853456	0.003748992692972	0.000153634647712
510	minimi	-1.755221	-2.55989	-11.658226	-0.003955980566923	-0.003951185221545	-0.000184583011928
511	massimi	1.673556	2.275763	-8.346959	0.004936258424906	0.003359467956018	0.000198124282416
511	minimi	-2.079102	-2.216235	-15.472821	-0.005221355881349	-0.001939143411355	-0.000178533700738
512	massimi	1.67421	2.32367	-8.101258	0.004921903501477	0.003296837777496	0.000197810760554
512	minimi	-2.079807	-2.257866	-16.159506	-0.005222870491489	-0.001990980620942	-0.000178820418697
513	massimi	1.674749	2.370266	-7.628791	0.004930501034434	0.003228907630745	0.000194098999804
513	minimi	-2.080367	-2.298227	-17.038917	-0.005219464844187	-0.002039621118214	-0.000174640519781
514	massimi	1.698302	2.41619	-7.713931	0.004972581345405	0.00318384501995	0.000192110224244
514	minimi	-2.11029	-2.337971	-17.409107	-0.005184163133891	-0.00207226707659	-0.000173040381336
515	massimi	1.721605	2.415383	-8.131564	0.005039359533191	0.003172544260016	0.000197972629372
515	minimi	-2.139822	-2.337399	-17.039204	-0.005133583199231	-0.002076208820424	-0.00017895062686
516	massimi	1.744217	2.414579	-7.830841	0.005098039147755	0.003182692167969	0.000191167813948
516	minimi	-2.168402	-2.336819	-17.353379	-0.005074752931654	-0.002071393199978	-0.000172937543604
517	massimi	1.766812	2.369308	-6.87149	0.005136659048661	0.003227841510979	0.000192399243342
517	minimi	-2.196851	-2.297541	-17.918686	-0.005035925635698	-0.002038812750743	-0.000174451937646
518	massimi	1.767441	2.32367	-7.167666	0.005136852397495	0.003296837777496	0.000197872458894
518	minimi	-2.197519	-2.257866	-17.215583	-0.005023958774904	-0.001990980620942	-0.000178827404425
519	massimi	1.768049	2.276722	-7.427286	0.005130882340354	0.003360536932263	0.000196415997381
519	minimi	-2.198161	-2.216922	-16.514963	-0.0050340152807	-0.001939954635305	-0.00017833659003
520	massimi	1.744947	2.229012	-9.010045	0.00509270539547	0.003403419619112	0.000198401165064
520	minimi	-2.169174	-2.175287	-14.476874	-0.005072991399529	-0.001906010806345	-0.000179933120598
521	massimi	1.721605	2.228299	-10.351453	0.005039359533191	0.003408067712313	0.000197710583323
521	minimi	-2.139822	-2.174795	-13.121792	-0.005133583199231	-0.001897871660118	-0.000178697189509
522	massimi	1.697586	2.227396	-9.763267	0.004977904403428	0.003402261607841	0.000199352105584
522	minimi	-2.109531	-2.17413	-13.66247	-0.005185913971753	-0.001905131770444	-0.000180044488554
523	massimi	2.023047	2.264282	-6.41607	0.003967660686152	0.002417442726855	0.000279791384915
523	minimi	-1.941213	-2.287271	-16.365004	-0.004462491057842	-0.003223394221781	-0.000284758168239
524	massimi	2.023468	2.189088	-7.059258	0.003958953870131	0.002387092083744	0.000287467644059
524	minimi	-1.941618	-2.213674	-15.440944	-0.004465203936145	-0.003300907464412	-0.000292313990229
525	massimi	2.023892	2.112764	-7.684694	0.003967094347986	0.002352898566962	0.000283422423994
525	minimi	-1.942031	-2.138931	-14.503016	-0.004459219115083	-0.003373106012665	-0.000288339850949
526	massimi	1.985319	2.03594	-8.25727	0.003996394209676	0.002331716963908	0.000285775945592
526	minimi	-1.901849	-2.063674	-13.735506	-0.004416868153746	-0.003423435432401	-0.000290605341761
527	massimi	1.947063	2.036037	-7.686482	0.004041652461759	0.002328293246638	0.000287275647723
527	minimi	-1.862012	-2.063724	-14.424134	-0.004356071472552	-0.003432750209286	-0.000292129165396
528	massimi	1.908735	2.035891	-6.633292	0.004080417250449	0.002336171943471	0.000288036970591
528	minimi	-1.822158	-2.063532	-15.563644	-0.004288274914502	-0.003428821336895	-0.000292695627721
529	massimi	1.895104	2.112732	-5.012414	0.004106956747897	0.002357012390041	0.00028749171474
529	minimi	-1.807021	-2.138844	-17.583964	-0.004242946101673	-0.003378079940483	-0.000292101822871
530	massimi	1.895046	2.189088	-4.470413	0.004108384593776	0.002387092083744	0.000287320317144
530	minimi	-1.806951	-2.213674	-18.438511	-0.004229724650569	-0.003300907464412	-0.000292177789904
531	massimi	1.894926	2.264319	-3.914239	0.004106418475769	0.002413335851185	0.000283859980372
531	minimi	-1.806817	-2.287363	-19.275504	-0.004239702224951	-0.003218427241372	-0.000288519444873
532	massimi	1.909195	2.339187	-4.239926	0.004079914645174	0.002432534662247	0.000281500270772
532	minimi	-1.822602	-2.360672	-19.144751	-0.004285272533729	-0.003165412112826	-0.000286247766058
533	massimi	1.947063	2.33912	-4.772268	0.004041652461759	0.002436428365928	0.000287512301906
533	minimi	-1.862012	-2.360561	-18.526243	-0.004356071472552	-0.003155975319355	-0.000292362603162
534	massimi	1.984828	2.339121	-5.270426	0.003996912353675	0.00243697709034	0.000279239937298
534	minimi	-1.901374	-2.360513	-17.91009	-0.004419886073245	-0.00317078546585	-0.000284158171624
535	massimi	1.396579	2.312766	-1.23969	0.005061574184571	0.004485108575125	0.000170408144721

535	minimi	-1.435159	-2.314162	-22.747041	-0.005564534190372	-0.005027823211571	-0.000206647522306
536	massimi	1.397275	2.264142	-1.63357	0.00504336721449	0.00443387181909	0.000175960273352
536	minimi	-1.435836	-2.277357	-22.156675	-0.005558910284052	-0.00509069148296	-0.000212694820578
537	massimi	1.397965	2.214427	-1.792989	0.005052021662849	0.004375549975547	0.00017408177039
537	minimi	-1.436531	-2.239454	-21.767252	-0.005553036971355	-0.005145416771775	-0.000210294618573
538	massimi	1.374844	2.164192	-3.261323	0.005104397753708	0.004339164466703	0.000176162019079
538	minimi	-1.401587	-2.201042	-20.186833	-0.005529426414262	-0.005184937527758	-0.000212376245509
539	massimi	1.354282	2.163682	-5.012016	0.005188162859373	0.004332329485016	0.000175791031809
539	minimi	-1.369213	-2.200528	-18.554223	-0.005500338233479	-0.005191832914341	-0.000212525466756
540	massimi	1.336443	2.16298	-6.749928	0.005263588970775	0.004345440258208	0.000177682544947
540	minimi	-1.339554	-2.199846	-16.900932	-0.005462408258646	-0.005192137601284	-0.000213926746687
541	massimi	1.318818	2.213704	-8.165816	0.005312420932662	0.004381358988344	0.000176818660274
541	minimi	-1.310088	-2.23874	-15.800177	-0.005435037637279	-0.00515207975176	-0.000213085462004
542	massimi	1.319496	2.264142	-7.665306	0.005312473511882	0.00443387181909	0.000175861180896
542	minimi	-1.310771	-2.277357	-16.530745	-0.005420042196529	-0.00509069148296	-0.000212593774715
543	massimi	1.320086	2.313495	-6.64623	0.005302935850843	0.004479268312279	0.000173145101749
543	minimi	-1.311341	-2.31488	-17.746254	-0.005423607858164	-0.005021128981537	-0.000209438432881
544	massimi	1.337198	2.362415	-5.079868	0.005254812806352	0.004512177361791	0.00017107050747
544	minimi	-1.3403	-2.351955	-19.4247	-0.005451835339936	-0.004977607121662	-0.000207362460355
545	massimi	1.354282	2.361795	-3.758836	0.005188162859373	0.004517941624769	0.000176030433014
545	minimi	-1.369213	-2.351355	-20.661222	-0.005500338233479	-0.004969470669178	-0.000212763139113
546	massimi	1.37402	2.361186	-2.298499	0.005113211256032	0.004518509597483	0.000169549916422
546	minimi	-1.400772	-2.350742	-22.003365	-0.005540036670873	-0.004984863639374	-0.000205811893997
547	massimi	1.527142	2.16748	-0.915399	0.003825242714149	0.003048556439798	0.000169399384762
547	minimi	-1.414044	-2.281589	-17.239297	-0.004666581250206	-0.004169746086118	-0.000189808885689
548	massimi	1.527575	2.144607	-0.740024	0.003814160813831	0.00300707200164	0.000174580223791
548	minimi	-1.414402	-2.265336	-17.035486	-0.004663453535826	-0.004213452792315	-0.000194897830835
549	massimi	1.527971	2.120582	-0.517484	0.003826221284647	0.00296079618249	0.000172204179292
549	minimi	-1.414741	-2.247855	-16.853877	-0.004663987994843	-0.00425042508147	-0.000192371316873
550	massimi	1.517013	2.096064	-1.729675	0.00387322243355	0.002931545317284	0.000173969097321
550	minimi	-1.397184	-2.229839	-15.476441	-0.004654458943585	-0.004277585908161	-0.000193937830541
551	massimi	1.509546	2.096125	-3.229718	0.003944309798731	0.00292591061629	0.000174436490798
551	minimi	-1.383175	-2.229826	-14.215541	-0.004642583986096	-0.0042823016285	-0.000194770261023
552	massimi	1.502351	2.096052	-4.721186	0.004009048113461	0.002935467263773	0.000175575536117
552	minimi	-1.369519	-2.229688	-12.938337	-0.00462323531509	-0.004283575289593	-0.000195290580208
553	massimi	1.495158	2.120573	-6.376919	0.004053331523917	0.002964429701331	0.000175097374898
553	minimi	-1.355882	-2.247763	-11.90203	-0.004610505521087	-0.004255968754968	-0.000194807889055
554	massimi	1.495599	2.144607	-6.137166	0.004058831829107	0.00300707200164	0.000174475394514
554	minimi	-1.356261	-2.265336	-12.546051	-0.004603316098827	-0.004213452792315	-0.000194809533774
555	massimi	1.495966	2.167493	-5.70865	0.004054332634763	0.003044893711273	0.000172296958686
555	minimi	-1.356558	-2.281684	-13.353635	-0.004607934806072	-0.004164173202936	-0.000192249836191
556	massimi	1.502833	2.189942	-4.374353	0.004009968945254	0.003071828365988	0.000170533316388
556	minimi	-1.369922	-2.297538	-14.853177	-0.004620856047972	-0.004133704417978	-0.000190684598253
557	massimi	1.509546	2.189948	-3.227133	0.003944309798731	0.003076413174165	0.000174619129891
557	minimi	-1.383175	-2.297485	-15.786336	-0.004642583986096	-0.0041279957341	-0.000194937105971
558	massimi	1.516521	2.189916	-2.042853	0.003872314081388	0.003075803070973	0.000168922499544
558	minimi	-1.39677	-2.297375	-16.731268	-0.004656850690336	-0.004139746557906	-0.000189327470539
559	massimi	1.853238	2.381602	-5.642093	0.002522194043623	0.003647921501992	0.000111031987827
559	minimi	-1.621229	-2.461782	-16.160206	-0.00330675247844	-0.004242629515378	-0.000138962215452
560	massimi	1.853763	2.375641	-6.502381	0.002513101790876	0.003613266191788	0.000112591957043
560	minimi	-1.621691	-2.46486	-15.088427	-0.003308720166632	-0.004311674264707	-0.000140327300037
561	massimi	1.854186	2.368307	-6.95737	0.002522065053728	0.003572798186411	0.000111160859982
561	minimi	-1.622079	-2.46651	-14.391433	-0.003304558426601	-0.004373781440156	-0.000138911979082
562	massimi	1.867756	2.360337	-8.188635	0.002560719942555	0.003547175689366	0.000111224297859
562	minimi	-1.626574	-2.467482	-13.131673	-0.003274035964092	-0.004417315858871	-0.000138702916222
563	massimi	1.88085	2.360315	-8.86174	0.002619391154795	0.003541087735807	0.000112586550213
563	minimi	-1.630689	-2.467315	-12.67212	-0.003230181276408	-0.004424150189263	-0.000140344092713
564	massimi	1.892967	2.360183	-9.207494	0.002673895194761	0.003549827290395	0.000111261179642
564	minimi	-1.633982	-2.467053	-12.509417	-0.003181175658058	-0.004421775873934	-0.000138237597588
565	massimi	1.904812	2.368215	-8.024113	0.002711171392037	0.003575249825598	0.000111226876611
565	minimi	-1.63706	-2.466256	-14.118571	-0.003148852013436	-0.004377903918129	-0.000138074068632
566	massimi	1.905311	2.375641	-6.875115	0.002715864800228	0.003613266191788	0.00011258959012
566	minimi	-1.637515	-2.46486	-15.509678	-0.003139402500513	-0.004311674264707	-0.000140357660121
567	massimi	1.905761	2.381693	-5.711798	0.002711070885398	0.003645464572318	0.000111096836871
567	minimi	-1.637912	-2.462036	-16.88438	-0.003146683675449	-0.004238501746918	-0.000138123137416
568	massimi	1.893531	2.38713	-4.840476	0.002673791860741	0.003668392160677	0.000111027783474
568	minimi	-1.634488	-2.458533	-17.784197	-0.003179161803132	-0.004191651747361	-0.000138326584757
569	massimi	1.88085	2.387095	-4.976702	0.002619391154795	0.003671115444754	0.000112594986431
569	minimi	-1.630689	-2.458372	-17.465039	-0.003230181276408	-0.004182097222739	-0.000140340856926

570	massimi	1.867192	2.386977	-4.837077	0.002560829003882	0.00367105331692	0.000110992071766
570	minimi	-1.626068	-2.458106	-17.390994	-0.003276055546324	-0.004196121317637	-0.000138793073465
571	massimi	2.11829	2.147411	-1.522109	0.000000260681974	0.00284845079638	0.000273569758471
571	minimi	-1.760478	-2.841048	-4.765333	-0.003258668774785	-0.003820694329939	-0.000232032517828
572	massimi	2.118838	2.174084	-0.303283	0.000001827333099	0.002822505970314	0.000280542009354
572	minimi	-1.760661	-2.85408	-5.663318	-0.003260232528391	-0.00382543049903	-0.000237135916359
573	massimi	2.119487	2.199913	0.925211	0.000005451194166	0.002792015669774	0.000273826094353
573	minimi	-1.76093	-2.865843	-6.561426	-0.003260889849967	-0.003824005850856	-0.000230923758155
574	massimi	2.032663	2.22562	1.834649	0.000010846837525	0.002770508065088	0.000275300637114
574	minimi	-1.688031	-2.877228	-8.186518	-0.003244619720811	-0.003824677262882	-0.00023158689557
575	massimi	1.945306	2.225631	1.544869	0.000016856119013	0.002761287460898	0.000280422425473
575	minimi	-1.614752	-2.877086	-8.941746	-0.003220325648738	-0.003823514530799	-0.00023708243431
576	massimi	1.856807	2.22561	1.276409	0.000022879857759	0.002764304551536	0.000278714660885
576	minimi	-1.540539	-2.876855	-9.708377	-0.003190886421939	-0.003827958511852	-0.000234337331513
577	massimi	1.767812	2.1999	-0.195591	0.000032186152207	0.002786283690864	0.000279967564475
577	minimi	-1.465876	-2.865615	-9.604365	-0.003176311067099	-0.003827037080371	-0.000235870814676
578	massimi	1.768555	2.174084	-1.287114	0.000034640473566	0.002822505970314	0.000280319817202
578	minimi	-1.466225	-2.85408	-8.843771	-0.0031704600756	-0.00382543049903	-0.000236956968384
579	massimi	1.76904	2.147439	-2.353857	0.000033663027167	0.002854183953863	0.000279702197314
579	minimi	-1.466359	-2.841291	-8.097325	-0.003174818505049	-0.003817664278996	-0.00023697054307
580	massimi	1.857531	2.120629	-3.297128	0.000027635829625	0.002874212763305	0.000278240508765
580	minimi	-1.54082	-2.828113	-6.4384	-0.003192898856963	-0.00381409878318	-0.000236320259867
581	massimi	1.945306	2.12067	-3.186239	0.000016856119013	0.00287252492992	0.000280439425134
581	minimi	-1.614752	-2.827972	-5.514369	-0.003220325648738	-0.003812166406563	-0.000237010474484
582	massimi	2.031948	2.120571	-3.027472	0.0000060609095	0.002868007121069	0.000274835515581
582	minimi	-1.687759	-2.827693	-4.627959	-0.00324257732963	-0.003817377903466	-0.000233578854511
583	massimi	2.109663	0.911899	-3.907683	0.005211587778655	0.002162362693493	0.000214745979746
583	minimi	-1.738899	-1.085029	-11.873868	-0.006209193432969	-0.003396169084595	-0.000213931897434
584	massimi	2.109945	0.92353	-3.752624	0.00520353979169	0.002129267534827	0.00021773947945
584	minimi	-1.73908	-1.096295	-11.615251	-0.00620741371901	-0.003436634681187	-0.000216037130603
585	massimi	2.110147	0.935264	-3.542426	0.005213464283201	0.002092749213559	0.000214346119184
585	minimi	-1.739194	-1.107555	-11.390217	-0.006207199113461	-0.003471571427227	-0.000213185211154
586	massimi	2.109155	0.947396	-5.252187	0.005240497090955	0.002069536275733	0.000214333383633
586	minimi	-1.738554	-1.119123	-9.53943	-0.006185438356808	-0.003497050914454	-0.000212736573853
587	massimi	2.108046	0.947352	-6.340555	0.005281716432837	0.0020651375572	0.000217740182872
587	minimi	-1.737924	-1.118879	-8.745471	-0.006155446531459	-0.003501788000413	-0.000216073305135
588	massimi	2.10618	0.947296	-5.857422	0.005314429011186	0.002072407012914	0.000214712660018
588	minimi	-1.736771	-1.118617	-9.50153	-0.006115540684526	-0.003502508572602	-0.000212372830245
589	massimi	2.104278	0.935198	-4.514662	0.005337808767284	0.00209540256349	0.000215028075195
589	minimi	-1.735676	-1.107248	-11.55362	-0.006089522507044	-0.003476614897897	-0.000212529780993
590	massimi	2.104571	0.92353	-4.711425	0.005338932434273	0.002129267534827	0.000217714823355
590	minimi	-1.735866	-1.096295	-11.792237	-0.00607905053561	-0.003436634681187	-0.000216060895057
591	massimi	2.104778	0.911979	-4.842705	0.005339688970425	0.002159706336142	0.000215426093691
591	minimi	-1.735986	-1.08535	-12.074485	-0.006087531886131	-0.003391122606505	-0.000213274625209
592	massimi	2.106475	0.900998	-5.513515	0.005316165493231	0.002181229090827	0.000215429844614
592	minimi	-1.736953	-1.074885	-11.544701	-0.006113700815779	-0.003362851814993	-0.000213714277882
593	massimi	2.108046	0.900963	-5.903768	0.005281716432837	0.002184947509797	0.000217714143119
593	minimi	-1.737924	-1.07465	-10.881743	-0.006155446531459	-0.003357842544978	-0.000216024703712
594	massimi	2.108865	0.900872	-5.447392	0.0052387602565674	0.002184105259718	0.000215052410095
594	minimi	-1.738376	-1.074354	-11.043488	-0.006187280273386	-0.003368314904851	-0.000214079863356
595	massimi	1.965649	0.325753	1.033744	0.00333464384004	-0.000543234503948	0.000333466269776
595	minimi	-1.525603	-0.459476	-7.808742	-0.004325279772198	-0.002397931255601	-0.000295205579418
596	massimi	1.965717	0.23144	1.297292	0.003332352361338	-0.000548525501488	0.000338730705408
596	minimi	-1.52561	-0.352578	-7.112325	-0.004320976591089	-0.002419890601856	-0.000299052932784
597	massimi	1.965776	0.138342	1.564488	0.003340890998401	-0.000552918298861	0.000334162943063
597	minimi	-1.525597	-0.246817	-6.412014	-0.004322738109081	-0.002437967120971	-0.000295659068763
598	massimi	1.934792	0.08382	0.433211	0.003356160085965	-0.000556999855211	0.000334649081633
598	minimi	-1.507159	-0.179538	-4.622267	-0.00432119595122	-0.002450224576555	-0.000295714752838
599	massimi	1.904735	0.083543	-0.960925	0.003377455514203	-0.000559279431813	0.000338690911353
599	minimi	-1.489771	-0.17905	-3.538118	-0.00432116086582	-0.00245003760865	-0.000299048206073
600	massimi	1.875044	0.083259	-1.920573	0.003393311919031	-0.000560864985504	0.000335173561067
600	minimi	-1.473008	-0.178523	-2.881257	-0.004314166794546	-0.002449153548429	-0.000295406189784
601	massimi	1.846392	0.13844	-1.839984	0.003406246740268	-0.000556484663593	0.000335106872225
601	minimi	-1.457413	-0.246645	-4.234133	-0.004309637598497	-0.00243698229685	-0.000295103577298
602	massimi	1.846515	0.23144	-2.205782	0.003409158305198	-0.000548525501488	0.000338696534356
602	minimi	-1.457448	-0.352578	-4.836001	-0.004304199303005	-0.002419890601856	-0.000299073048797
603	massimi	1.846506	0.325662	-2.479908	0.003412496240149	-0.000539682596501	0.00033440995734
603	minimi	-1.457394	-0.459656	-5.521681	-0.004307098276899	-0.002398901622437	-0.000294649846357
604	massimi	1.875114	0.420866	-2.673739	0.003399085557026	-0.000534921924183	0.000333919250532

604	minimi	-1.472999	-0.567651	-5.986319	-0.004311820221388	-0.002385057433655	-0.000294589594043
605	massimi	1.904735	0.420847	-1.86736	0.003377455514203	-0.000535583651924	0.000338736319863
605	minimi	-1.489771	-0.567395	-6.490413	-0.00432116086582	-0.002380150156595	-0.00029907776696
606	massimi	1.934718	0.421016	-0.611217	0.003350387744404	-0.000538760939334	0.000333395012688
606	minimi	-1.507164	-0.567347	-7.436069	-0.004323543820813	-0.002384012520669	-0.000294898398687
607	massimi	2.635562	0.615253	-4.701203	0.005557858495781	0.005018863220909	0.000121457314257
607	minimi	-2.599567	-0.576807	-11.175031	-0.005546741945511	-0.004819615020827	-0.000114416138495
608	massimi	2.635603	0.615847	-5.729986	0.005549462377853	0.004987379956194	0.000118256937475
608	minimi	-2.599633	-0.575096	-10.19793	-0.005547517785122	-0.004861443119567	-0.00011110435761
609	massimi	2.635465	0.616627	-5.587689	0.005557571229779	0.004947864482463	0.000121566144321
609	minimi	-2.599515	-0.573599	-10.370319	-0.00554682755054	-0.004895441847247	-0.000114606774981
610	massimi	2.671463	0.618692	-4.836422	0.005579228000357	0.004921841271655	0.000119547709381
610	minimi	-2.637789	-0.573392	-11.119211	-0.005519496715305	-0.004918404538577	-0.000112595850547
611	massimi	2.706646	0.61861	-4.135334	0.005613373839037	0.004912191430717	0.000118420888877
611	minimi	-2.67525	-0.573294	-11.787833	-0.005480132461029	-0.004917536883856	-0.000111267697162
612	massimi	2.740177	0.618512	-2.892467	0.005638481684339	0.004919698260203	0.000114407018975
612	minimi	-2.711078	-0.573177	-12.976649	-0.005431944816261	-0.004915867028967	-0.00010739213156
613	massimi	2.772952	0.616589	-2.643391	0.005656258090851	0.004945883153678	0.000112313162803
613	minimi	-2.746167	-0.573541	-13.141436	-0.005400825781556	-0.004893096031784	-0.00010524034624
614	massimi	2.772923	0.615847	-2.810064	0.005655009739602	0.004987379956194	0.000118592003306
614	minimi	-2.746158	-0.575096	-12.944647	-0.005391000398517	-0.004861443119567	-0.000111443530838
615	massimi	2.772855	0.615255	-2.71579	0.005655969451899	0.005020848553669	0.000112202769106
615	minimi	-2.746115	-0.576829	-12.987262	-0.005400910013636	-0.004821964840264	-0.000105048146121
616	massimi	2.740119	0.621084	-3.645506	0.005638215258166	0.005043588280723	0.000114209004255
616	minimi	-2.711046	-0.584993	-12.059922	-0.005432022894926	-0.004795835788621	-0.000107046870763
617	massimi	2.706646	0.621389	-4.457824	0.005613373839037	0.005042779213783	0.00011842802913
617	minimi	-2.67525	-0.585278	-11.301635	-0.005480132461029	-0.004786059918568	-0.000111280168513
618	massimi	2.67152	0.621711	-4.396847	0.005579493666356	0.005041438037598	0.000119351254656
618	minimi	-2.63782	-0.585586	-11.395098	-0.005519417876467	-0.004793291047338	-0.000112252149747
619	massimi	2.478444	0.752749	-7.252348	0.005513466184483	0.004206240847386	0.000111430525326
619	minimi	-2.494896	-0.723879	-15.389403	-0.005609665362875	-0.00370976172684	-0.00010665682232
620	massimi	2.478469	0.751503	-7.586789	0.005501776808156	0.004159206392916	0.000109852813149
620	minimi	-2.494939	-0.721082	-15.197117	-0.005611670878829	-0.00377021266976	-0.000105083865002
621	massimi	2.478326	0.75021	-7.595902	0.005512651664048	0.004105479939495	0.000112400683161
621	minimi	-2.494811	-0.718256	-15.298433	-0.005610002566549	-0.003824598139643	-0.000107688051364
622	massimi	2.510926	0.749055	-8.103461	0.005551046484658	0.004069803027422	0.000111314097104
622	minimi	-2.528953	-0.715579	-14.890403	-0.005576377440306	-0.003861012553818	-0.000106641595569
623	massimi	2.542788	0.748964	-8.325947	0.005610458281767	0.004059034465679	0.000109941026331
623	minimi	-2.562346	-0.7155	-14.656875	-0.005527505180914	-0.00386349523693	-0.000105168808937
624	massimi	2.573121	0.748842	-7.787964	0.005660837229806	0.004067648886217	0.000107591534115
624	minimi	-2.594198	-0.715387	-15.152037	-0.00546973367941	-0.003858612806887	-0.000102958295433
625	massimi	2.602763	0.750093	-7.207826	0.005695356047219	0.004103490174841	0.000105700891018
625	minimi	-2.625358	-0.718152	-15.57869	-0.005432289929586	-0.003822381453738	-0.000101058929726
626	massimi	2.602723	0.751503	-7.462895	0.005696881122906	0.004159206392916	0.000110095391809
626	minimi	-2.625333	-0.721082	-15.213177	-0.005421410083399	-0.00377021266976	-0.000105323885011
627	massimi	2.602643	0.752843	-7.3353	0.005694542582159	0.004208229116618	0.000104686351033
627	minimi	-2.625272	-0.723959	-15.198632	-0.005432628188634	-0.003711976917322	-0.000099983318532
628	massimi	2.57305	0.757283	-7.737289	0.005660085445148	0.00424120166839	0.00010576516668
628	minimi	-2.594147	-0.729951	-14.697113	-0.005470046001352	-0.003673145898761	-0.000101022003917
629	massimi	2.542788	0.757396	-8.051933	0.005610458281767	0.004242886283782	0.000110007164124
629	minimi	-2.562346	-0.730073	-14.425224	-0.005527505180914	-0.003661981944852	-0.000105238926572
630	massimi	2.510996	0.757523	-7.692253	0.00555179885373	0.004239050228063	0.000109487087614
630	minimi	-2.529003	-0.730212	-14.796013	-0.005576065702777	-0.003670748852707	-0.000104704661997
631	massimi	1.922297	0.754236	-7.501191	0.005460193584836	0.003621774267612	0.000102991730113
631	minimi	-1.952957	-0.743636	-15.509962	-0.005635367366865	-0.002931533116959	-0.000097114691835
632	massimi	1.922305	0.752156	-7.902588	0.00544827445533	0.003569729536597	0.000102505543038
632	minimi	-1.952974	-0.739649	-15.313279	-0.0056376555208	-0.002989121843215	-0.000096628718316
633	massimi	1.92222	0.749975	-7.902619	0.005458759416124	0.003511939583214	0.00010406689293
633	minimi	-1.952894	-0.735568	-15.485539	-0.005635652248714	-0.003041900492695	-0.000098214963197
634	massimi	1.942908	0.747888	-8.936302	0.005496966654568	0.00347345036939	0.000103481180711
634	minimi	-1.975494	-0.731588	-14.638201	-0.005600236896039	-0.003077167510647	-0.000097666982434
635	massimi	1.969135	0.747811	-9.417578	0.005556332177829	0.003462659255373	0.000102552847492
635	minimi	-2.00362	-0.731531	-14.17071	-0.005548711538656	-0.003080190331859	-0.000096672948946
636	massimi	1.994323	0.747701	-8.792813	0.00560675059194	0.00347136293315	0.000100954051474
636	minimi	-2.030684	-0.731438	-14.776742	-0.00548825134617	-0.003075057511385	-0.000095209081198
637	massimi	2.019047	0.749868	-7.845212	0.00564111686545	0.003510010450138	0.000099519113429
637	minimi	-2.057279	-0.735484	-15.53304	-0.005449000299846	-0.003039950513081	-0.000093791789456
638	massimi	2.019001	0.752156	-7.805564	0.005642341495886	0.003569729536597	0.000102670194393
638	minimi	-2.057238	-0.739649	-15.400396	-0.005437749397652	-0.002989121843215	-0.000096788858275

639	massimi	2.018928	0.75433	-7.62232	0.005639682867642	0.003623704891538	0.000098445334089
639	minimi	-2.057173	-0.743708	-15.378928	-0.005449285352599	-0.002933484587424	-0.00009269290157
640	massimi	1.994252	0.761272	-8.328003	0.005605425650057	0.003659889258938	0.000099020752557
640	minimi	-2.030622	-0.752544	-14.4869	-0.005488514677933	-0.002896316052561	-0.000093230588583
641	massimi	1.969135	0.761209	-8.781744	0.005556332177829	0.003662641064267	0.000102622870705
641	minimi	-2.00362	-0.752497	-14.051795	-0.005548711538656	-0.00288619897705	-0.000096744608412
642	massimi	1.942933	0.761159	-8.232755	0.005498291691049	0.003657799130072	0.000101546497763
642	minimi	-1.975511	-0.752468	-14.587097	-0.005599973658874	-0.002894203360673	-0.000095687105788
643	massimi	1.756918	0.75483	-7.288117	0.005451188133149	0.003374422356706	0.000107246085722
643	minimi	-1.818996	-0.75716	-15.764354	-0.005637359602301	-0.002672644836329	-0.000097199205262
644	massimi	1.75693	0.754224	-7.59443	0.005438836805642	0.003328502987144	0.000107787875021
644	minimi	-1.819013	-0.753297	-15.66646	-0.005639254923191	-0.002736594964127	-0.000097738879632
645	massimi	1.75687	0.753546	-7.617236	0.005449462126673	0.003277249075602	0.00010832738597
645	minimi	-1.818948	-0.749361	-15.819577	-0.005637386104155	-0.002796163896215	-0.000098282368335
646	massimi	1.758582	0.752985	-8.152862	0.005489283799361	0.003243330102797	0.000108154413925
646	minimi	-1.823941	-0.745547	-15.477416	-0.005603414111011	-0.002836177336312	-0.000098165235036
647	massimi	1.759922	0.752885	-8.751699	0.005551188297142	0.003234000411983	0.000107801596542
647	minimi	-1.828538	-0.745487	-14.895842	-0.00555416117314	-0.002840718143022	-0.000097748052202
648	massimi	1.76032	0.752755	-8.372246	0.005604160701569	0.003242123966712	0.000106651798407
648	minimi	-1.832148	-0.745391	-15.259962	-0.005495971353704	-0.002834980002253	-0.000096800365258
649	massimi	1.760334	0.75341	-7.683501	0.005640158421553	0.003276136322255	0.000105623676259
649	minimi	-1.835359	-0.749269	-15.757176	-0.005458173351483	-0.00279505927528	-0.00009582659172
650	massimi	1.760342	0.754224	-7.551124	0.005641537799032	0.003328502987144	0.000107885745027
650	minimi	-1.835366	-0.753297	-15.71363	-0.005447053634421	-0.002736594964127	-0.000097827773131
651	massimi	1.760281	0.754962	-7.339779	0.005638437004601	0.003375530229672	0.000104544154552
651	minimi	-1.835307	-0.757247	-15.716556	-0.005458204442861	-0.002673744576883	-0.000094745207189
652	massimi	1.760289	0.761615	-7.378992	0.005602569375137	0.003407275404165	0.000104708013968
652	minimi	-1.832118	-0.767124	-15.483878	-0.005495999213384	-0.002631966098457	-0.000094853227858
653	massimi	1.759922	0.761369	-7.910806	0.005551188297142	0.003409860729738	0.000107872006464
653	minimi	-1.828538	-0.766913	-14.967297	-0.00555416117314	-0.002621676178617	-0.000097818583519
654	massimi	1.758612	0.761136	-7.507271	0.005490877667203	0.003406078082492	0.000106208850226
654	minimi	-1.82397	-0.766721	-15.353669	-0.00560338879274	-0.002630777578811	-0.000096216318377
655	massimi	1.560917	0.72945	-7.750048	0.005446214873808	0.003252336761986	0.000104877462616
655	minimi	-1.672987	-0.7514	-15.214483	-0.005664265218958	-0.002693173249861	-0.000091323128851
656	massimi	1.560941	0.729933	-7.920424	0.005434221408191	0.003199130002357	0.000105580422762
656	minimi	-1.673008	-0.747496	-15.206299	-0.005666212344723	-0.002749340860553	-0.0000920577896
657	massimi	1.560901	0.730322	-7.755144	0.005444441552198	0.003140778038444	0.000105236311312
657	minimi	-1.672952	-0.743486	-15.501446	-0.005663823623202	-0.002801087711949	-0.000091646720855
658	massimi	1.561628	0.730799	-8.699944	0.005482202209847	0.003102182616909	0.000105454526647
658	minimi	-1.678117	-0.739565	-14.71451	-0.005628195352273	-0.002835994433715	-0.000091947898254
659	massimi	1.562057	0.730671	-9.418303	0.005541032764366	0.003092295073812	0.000105562360299
659	minimi	-1.682943	-0.739509	-14.023918	-0.005576654071349	-0.002839838835224	-0.000092032968561
660	massimi	1.561682	0.730516	-8.965152	0.0055909411699	0.003101355586729	0.000104928692607
660	minimi	-1.68689	-0.739415	-14.472431	-0.005516133268605	-0.002835272870322	-0.000091664743447
661	massimi	1.561003	0.730153	-7.824938	0.005624872133474	0.003140012945804	0.000104290470117
661	minimi	-1.6905	-0.743395	-15.477951	-0.005476650663934	-0.002800420062701	-0.00009113768601
662	massimi	1.561024	0.729933	-7.673642	0.005625857492711	0.003199130002357	0.000105614648185
662	minimi	-1.690509	-0.747496	-15.499386	-0.005464967792607	-0.002749340860553	-0.00009207620029
663	massimi	1.560982	0.72962	-7.274521	0.005623098396028	0.003253104777429	0.000103211849906
663	minimi	-1.690459	-0.751492	-15.736309	-0.005476208652342	-0.002693843821911	-0.000090094322491
664	massimi	1.56167	0.733401	-8.084843	0.005589302444073	0.00328955814009	0.000102986704619
664	minimi	-1.686867	-0.759594	-14.768123	-0.005515724957477	-0.002657098142207	-0.000089786215141
665	massimi	1.562057	0.732989	-8.886269	0.005541032764366	0.003293280171754	0.000105632697681
665	minimi	-1.682943	-0.759245	-13.971259	-0.005576654071349	-0.00264794329653	-0.000092101008362
666	massimi	1.561638	0.732586	-8.598364	0.005483840705413	0.003288725831034	0.000104199850419
666	minimi	-1.678138	-0.758911	-14.231472	-0.005628603433141	-0.002656371299938	-0.000090756681707
667	massimi	1.829752	1.335818	-2.574582	0.004605568472531	0.006310796892281	0.000110907561175
667	minimi	-1.870702	-1.249795	-10.981891	-0.004530836073124	-0.006131591677088	-0.000113453936282
668	massimi	1.875633	1.269987	-2.446586	0.004652856311467	0.006212160237352	0.000109351104281
668	minimi	-1.915	-1.185986	-11.050942	-0.0043964708702	-0.006269391770409	-0.000112602378299
669	massimi	1.875633	1.396294	0.799238	0.004652856311467	0.006327788890692	0.0000961145416
669	minimi	-1.915	-1.308613	-14.070358	-0.0043964708702	-0.005914469666471	-0.000098390677338
670	massimi	1.830783	1.396869	1.10907	0.004642457599303	0.006368341800461	0.00010961011944
670	minimi	-1.871652	-1.30919	-14.492412	-0.004487766853119	-0.006019849050088	-0.000112296288333
671	massimi	1.918162	1.335818	-0.830463	0.004701464052381	0.006310796892281	0.000094740160452
671	minimi	-1.955871	-1.249795	-12.440865	-0.004263372687174	-0.006131591677088	-0.000097723185385
672	massimi	1.918606	1.271181	-0.3837	0.004697001958294	0.006285883519424	0.000111343863695
672	minimi	-1.956255	-1.187163	-12.941317	-0.004335200387897	-0.006273056956285	-0.000114602134254
673	massimi	1.917632	1.396181	1.403654	0.004707421658463	0.006378156983991	0.000105191928363

673	minimi	-1.955433	-1.308446	-14.503452	-0.00434692222814	-0.006031370736888	-0.000107997235453
674	massimi	1.829819	1.27052	-4.25998	0.004652653478581	0.006295648997884	0.000115756716226
674	minimi	-1.87084	-1.186446	-9.34858	-0.004499264872472	-0.006284528938015	-0.000118895848588
675	massimi	1.903466	1.207971	-2.696421	0.00397194384519	0.006270053209801	0.000074097868042
675	minimi	-1.82335	-1.035966	-11.611462	-0.003896584015775	-0.006184998695798	-0.000066003038235
676	massimi	1.932939	1.223712	0.906302	0.004024032672797	0.006043464298732	0.000062921170809
676	minimi	-1.857742	-1.046408	-15.087044	-0.00375537322507	-0.006209320909296	-0.000055387280019
677	massimi	1.932939	1.189141	-3.369616	0.004024032672797	0.006415470931444	0.000067587813402
677	minimi	-1.857742	-1.023163	-10.703667	-0.00375537322507	-0.006080607743932	-0.000058104113667
678	massimi	1.903791	1.18962	-4.894348	0.004015392170461	0.006425529781572	0.00007360306802
678	minimi	-1.823547	-1.02349	-9.295699	-0.003855350375588	-0.006160702408341	-0.000064113233103
679	massimi	1.958909	1.207971	-0.767216	0.00407719373109	0.006270053209801	0.000056915354622
679	minimi	-1.888774	-1.035966	-13.241872	-0.003615179205943	-0.006184998695798	-0.00004798646271
680	massimi	1.958861	1.223952	1.923943	0.004075447564765	0.006160175297499	0.000066727854799
680	minimi	-1.888531	-1.046553	-15.923766	-0.003695017292354	-0.006252534765424	-0.00005791616315
681	massimi	1.959108	1.189812	-1.523827	0.004070676016045	0.006422068014204	0.000068877708171
681	minimi	-1.889082	-1.023788	-12.369103	-0.003690863767221	-0.006159028848096	-0.000059160303999
682	massimi	1.904035	1.224278	0.385464	0.004010750988553	0.006156681935846	0.000071419484674
682	minimi	-1.824094	-1.046986	-14.682405	-0.003851327217267	-0.006250829610895	-0.000062835362281
683	massimi	1.70562	1.505076	-3.686432	0.003825023334487	0.005305524739618	0.000110950929725
683	minimi	-1.797856	-1.459208	-13.010185	-0.003934237605044	-0.005008470854189	-0.000107826644985
684	massimi	1.755205	1.44898	-7.731101	0.003945571096061	0.005191929901015	0.00011163810576
684	minimi	-1.849057	-1.401477	-9.047151	-0.003822833773692	-0.00519719540056	-0.000108820928919
685	massimi	1.755205	1.55524	-1.442505	0.003945571096061	0.005350359760588	0.000096049423315
685	minimi	-1.849057	-1.511201	-14.960449	-0.003822833773692	-0.004754836705762	-0.000093186595454
686	massimi	1.706685	1.555734	-0.738492	0.003893118625156	0.005375643366012	0.000109876075439
686	minimi	-1.798903	-1.511735	-15.694828	-0.003900940198388	-0.00486289897233	-0.000106814066537
687	massimi	1.801748	1.505076	-4.773805	0.004067210215127	0.005305524739618	0.000096375375131
687	minimi	-1.897038	-1.459208	-11.786307	-0.003712495984023	-0.005008470854189	-0.000094292075904
688	massimi	1.802177	1.449989	-6.027698	0.004031059794349	0.005262630357698	0.000112919697154
688	minimi	-1.897429	-1.402542	-10.64321	-0.003774446955886	-0.005178456952927	-0.000110383238347
689	massimi	1.801149	1.555446	-1.99876	0.004035475062046	0.00538402575364	0.000105895526041
689	minimi	-1.896482	-1.511313	-14.298822	-0.003781020675099	-0.004872098300424	-0.000103117545964
690	massimi	1.705671	1.449735	-6.155903	0.003897330880346	0.005271007700202	0.00011689781129
690	minimi	-1.797971	-1.402154	-10.650743	-0.003907310905095	-0.005187651235897	-0.000114077323658
691	massimi	1.915075	1.34474	-8.916545	0.003349068276875	0.005408427607638	0.000099101078317
691	minimi	-1.870605	-1.203883	-11.806653	-0.003461616306619	-0.005166728909336	-0.000091180267062
692	massimi	1.959123	1.357871	-6.747512	0.003487317207694	0.005178521276574	0.000087804677748
692	minimi	-1.91939	-1.211896	-13.979298	-0.003305445087312	-0.005319688893136	-0.000080464803733
693	massimi	1.959123	1.326836	-7.027084	0.003487317207694	0.00556823903864	0.000091872689026
693	minimi	-1.91939	-1.191693	-13.394361	-0.003305445087312	-0.004946806851392	-0.000082936090296
694	massimi	1.91548	1.327288	-7.237501	0.003427208981058	0.005567077849119	0.00009873880398
694	minimi	-1.870913	-1.192032	-13.236462	-0.00341142725269	-0.005051963996537	-0.000090810906957
695	massimi	1.999702	1.34474	-7.80664	0.003626290800434	0.005408427607638	0.000080324832337
695	minimi	-1.96478	-1.203883	-12.714285	-0.003149960986242	-0.005166728909336	-0.000071963306668
696	massimi	1.999539	1.358106	-6.118506	0.003585228682582	0.005289076898597	0.000092918035037
696	minimi	-1.964455	-1.212072	-14.458079	-0.003233793739824	-0.005317961138434	-0.000084476515236
697	massimi	1.999828	1.327637	-6.166938	0.003580343595096	0.005564074987482	0.00009474497215
697	minimi	-1.964992	-1.192437	-14.105887	-0.003230664884776	-0.005050171682395	-0.00008561752207
698	massimi	1.915765	1.358562	-6.505731	0.003422336382526	0.005286068153268	0.000098042329739
698	minimi	-1.871446	-1.212584	-14.27199	-0.003408310886596	-0.005316162940598	-0.00008972105644
699	massimi	2.324765	2.592251	0.000197	0.004542655048237	0.005760324579032	0.000236037107858
699	minimi	-2.20636	-2.345597	-21.086735	-0.004944138332088	-0.005611870539463	-0.000204683014633
700	massimi	2.387171	2.556376	-1.364041	0.004612998902694	0.005965911311015	0.000233628739592
700	minimi	-2.279343	-2.320545	-19.737793	-0.004808344764941	-0.0056113195604	-0.000200634978855
701	massimi	2.324852	2.556663	-1.61218	0.004576305040272	0.005901380853476	0.000240013851151
701	minimi	-2.206372	-2.320733	-19.401842	-0.004902735504934	-0.005621953721965	-0.000206864094313
702	massimi	2.387171	2.624774	1.594579	0.004612998902694	0.00555472100357	0.000219098044723
702	minimi	-2.279343	-2.36764	-22.793262	-0.004808344764941	-0.005612406507723	-0.00018838609149
703	massimi	2.446477	2.592251	0.728653	0.00468371130009	0.005760324579032	0.00021625433891
703	minimi	-2.349375	-2.345597	-21.942632	-0.004672917329173	-0.005611870539463	-0.000183902718165
704	massimi	2.44624	2.624877	1.918144	0.004665885352292	0.005640307478143	0.000227307503556
704	minimi	-2.349007	-2.3677	-23.156058	-0.004730548278495	-0.005622647885092	-0.000194627178845
705	massimi	2.447033	2.556962	-0.454821	0.004664708157713	0.005898928016208	0.000232782932061
705	minimi	-2.349977	-2.321109	-20.686415	-0.004729598822701	-0.005619201210607	-0.000199268557327
706	massimi	2.325637	2.625184	1.817021	0.004575166844723	0.005637845721777	0.000234540471945
706	minimi	-2.207334	-2.368084	-22.92772	-0.00490182504817	-0.005619886454636	-0.00020222476513
707	massimi	1.305645	1.534323	-4.516399	0.00368456402984	0.004414515715133	0.000120454142032
707	minimi	-1.408773	-1.522268	-12.51684	-0.003897332193766	-0.00397327068078	-0.000117983832001

708	massimi	1.349056	1.476928	-8.2824	0.003802674465584	0.004291165454295	0.000123046756164
708	minimi	-1.453392	-1.463639	-8.976744	-0.003777367569076	-0.004161091153308	-0.000121224089369
709	massimi	1.349056	1.58584	-2.775573	0.003802674465584	0.004480648605009	0.000107344674106
709	minimi	-1.453392	-1.575069	-13.926102	-0.003777367569076	-0.003733951962966	-0.0001053853538
710	massimi	1.306143	1.586158	-2.071322	0.003754018631232	0.004492870569288	0.000121636359452
710	minimi	-1.409282	-1.57545	-14.606307	-0.003862691039752	-0.003830128053473	-0.000119413077957
711	massimi	1.402852	1.534323	-5.363226	0.0039217891255	0.004414515715133	0.000110018724719
711	minimi	-1.508198	-1.522268	-11.641868	-0.003658401948755	-0.00397327068078	-0.000108705685847
712	massimi	1.403151	1.477773	-6.492589	0.003889151236726	0.004357703503122	0.00012608397258
712	minimi	-1.508493	-1.46456	-10.711594	-0.003726420062721	-0.004134826967724	-0.000124239925194
713	massimi	1.402178	1.586231	-3.103656	0.003887390213216	0.004500952998088	0.000118787479083
713	minimi	-1.507542	-1.575375	-13.545987	-0.003727865211762	-0.003838378925152	-0.000116879954496
714	massimi	1.30576	1.477881	-6.437568	0.003752093001793	0.004365785315616	0.00012893141663
714	minimi	-1.40892	-1.46452	-10.794602	-0.003863971582864	-0.004143077223096	-0.000126771612337
715	massimi	1.462132	1.355604	-9.609726	0.003147290481259	0.004342457459133	0.000121890868555
715	minimi	-1.441559	-1.276805	-13.27106	-0.003471658173629	-0.004005145756223	-0.000118217102937
716	massimi	1.513062	1.375369	-8.206661	0.003311400362594	0.004088223751208	0.000112416748247
716	minimi	-1.494684	-1.294225	-14.830548	-0.003306042407726	-0.00418009522159	-0.000109089045164
717	massimi	1.513062	1.332251	-9.02389	0.003311400362594	0.004540415757422	0.000116650476075
717	minimi	-1.494684	-1.256131	-13.587156	-0.003306042407726	-0.003778293014181	-0.000112429530574
718	massimi	1.462599	1.332794	-8.560324	0.003235737776278	0.004519702523491	0.000126082025303
718	minimi	-1.441969	-1.256616	-14.000097	-0.003417068980681	-0.003876644400032	-0.000121843283708
719	massimi	1.569865	1.355604	-9.402689	0.003476200552538	0.004342457459133	0.000107074594063
719	minimi	-1.553719	-1.276805	-13.472138	-0.003141115844395	-0.004005145756223	-0.000103196991426
720	massimi	1.569531	1.375649	-7.872391	0.003423218261346	0.004197134368564	0.000119949044994
720	minimi	-1.553298	-1.294472	-15.106028	-0.003228669611806	-0.00416327024283	-0.000116069610728
721	massimi	1.569906	1.333023	-8.205513	0.003418317700277	0.004516926142309	0.000122036224496
721	minimi	-1.553812	-1.256871	-14.348983	-0.003226220026927	-0.003873903681593	-0.000117741867093
722	massimi	1.462342	1.375972	-7.702557	0.003230848759407	0.004194354894668	0.000123992779423
722	minimi	-1.44185	-1.294821	-15.281787	-0.00341463094	-0.004160526431677	-0.000120168960965
723	massimi	1.806585	2.822889	-4.161706	0.00308512737925	0.004766921882098	0.000153980085207
723	minimi	-1.731665	-2.597328	-21.812014	-0.003343812701812	-0.004276709634766	-0.000145757833417
724	massimi	1.842205	2.804205	-5.48794	0.003208045827215	0.004980805154677	0.000154429052586
724	minimi	-1.770096	-2.581662	-20.326757	-0.00321074440466	-0.004234609171426	-0.000144829921445
725	massimi	1.806809	2.804525	-5.523467	0.003135688030997	0.004911133753493	0.000157297013918
725	minimi	-1.731807	-2.581918	-20.26047	-0.003300548832515	-0.004257599956708	-0.000148196468786
726	massimi	1.842205	2.837831	-2.754896	0.003208045827215	0.004552989766622	0.000143292072431
726	minimi	-1.770096	-2.609565	-23.379607	-0.00321074440466	-0.00431876730692	-0.000135779620409
727	massimi	1.877944	2.822889	-4.033294	0.003334390718659	0.004766921882097	0.000141269722229
727	minimi	-1.808747	-2.597328	-21.942186	-0.003081102517673	-0.004276709634766	-0.000132380390856
728	massimi	1.877671	2.838062	-2.66969	0.003293989734015	0.004639501848579	0.000147644056778
728	minimi	-1.808375	-2.609748	-23.435244	-0.003133782762656	-0.004311035824671	-0.000130962405999
729	massimi	1.878515	2.804728	-5.384445	0.003292710080888	0.004909706500091	0.000152627242267
729	minimi	-1.809381	-2.582173	-20.40125	-0.003133255129088	-0.0042561685635	-0.000143282865111
730	massimi	1.806849	2.838267	-2.790454	0.003134577791739	0.004638071903682	0.000152271483327
730	minimi	-1.732009	-2.610004	-23.312723	-0.003300190612817	-0.00430960173997	-0.000143933664572
731	massimi	1.183319	1.54091	-4.850988	0.003676732227537	0.004103927049551	0.000108667875987
731	minimi	-1.317128	-1.540846	-12.170845	-0.003904545646881	-0.00367597715517	-0.000115319499685
732	massimi	1.199107	1.483894	-7.785414	0.003787650192917	0.003986389590495	0.000113284282998
732	minimi	-1.328718	-1.488734	-9.462325	-0.003777434140007	-0.00386946321584	-0.000120652415929
733	massimi	1.199107	1.591955	-2.75913	0.003787650192917	0.004168304550418	0.00009737931805
733	minimi	-1.328718	-1.586989	-13.947937	-0.003777434140007	-0.003434877939195	-0.000104746734367
734	massimi	1.183679	1.592099	-2.322873	0.003745803343108	0.00418136957507	0.000110457345995
734	minimi	-1.317476	-1.587249	-14.351769	-0.003869659225698	-0.003532060575032	-0.000118184712128
735	massimi	1.213267	1.54091	-4.729535	0.003899557560825	0.004103927049551	0.000102066226158
735	minimi	-1.338433	-1.540846	-12.280937	-0.003651309928498	-0.00367597715517	-0.00011015545762
736	massimi	1.213444	1.484565	-6.269525	0.003872741104478	0.004051599281002	0.000116045644226
736	minimi	-1.338656	-1.489474	-10.93165	-0.003725247148293	-0.003842069158454	-0.00012416558889
737	massimi	1.213207	1.592531	-2.459341	0.003865394606916	0.004183812190887	0.000108654924374
737	minimi	-1.338419	-1.587497	-14.204002	-0.003721010218199	-0.003534571188968	-0.000116774536162
738	massimi	1.183477	1.485023	-6.390513	0.003738317413004	0.004054045574309	0.00011784691956
738	minimi	-1.317274	-1.489746	-10.82196	-0.003865282863063	-0.00384458344988	-0.00012557461857
739	massimi	1.305773	1.35346	-9.863714	0.003089466163465	0.004047022345715	0.000104763403649
739	minimi	-1.325115	-1.315391	-13.366621	-0.003504755443093	-0.003713859064221	-0.000107328410459
740	massimi	1.319748	1.365612	-8.768279	0.003255682664917	0.003793270722396	0.000097997293984
740	minimi	-1.337545	-1.329396	-14.661953	-0.003335032594202	-0.003897299183696	-0.000100875810307
741	massimi	1.319748	1.33727	-9.541951	0.003255682664917	0.004248319430225	0.000101550748928
741	minimi	-1.337545	-1.29751	-13.46736	-0.003335032594202	-0.003482282768306	-0.0001039977224
742	massimi	1.306081	1.337784	-8.916527	0.003178391492913	0.00422243180151	0.000109341809462

742	minimi	-1.325381	-1.29803	-13.994275	-0.00344838206896	-0.003578085860124	-0.000112078294235
743	massimi	1.331786	1.35346	-9.691968	0.003422574017822	0.004047022345715	0.000094313200845
743	minimi	-1.348004	-1.315391	-13.626617	-0.003166000976891	-0.003713859064221	-0.000097075602528
744	massimi	1.331915	1.365955	-8.407789	0.003368264364499	0.003897827045235	0.000104819071378
744	minimi	-1.348113	-1.329726	-15.009476	-0.003255301582995	-0.003874139232721	-0.000107809871724
745	massimi	1.331834	1.337994	-8.762156	0.003363700481156	0.00422337988204	0.000106486216269
745	minimi	-1.348098	-1.298214	-14.2364	-0.003253158532559	-0.003578505784618	-0.000109276559147
746	massimi	1.305991	1.366228	-8.38777	0.003173838548584	0.003898769627312	0.000107656218789
746	minimi	-1.325358	-1.329975	-14.94174	-0.003446249957538	-0.003874553658763	-0.000110593161031
747	massimi	1.585248	2.704102	-6.915579	0.002726904337327	0.003701879524861	0.000445472538925
747	minimi	-1.46557	-2.664922	-21.219659	-0.003565513322584	-0.003711951119517	-0.000439642206187
748	massimi	1.714189	2.656195	-8.032331	0.002860533542135	0.003915493222638	0.000446430992578
748	minimi	-1.59656	-2.619173	-20.288344	-0.003418952034695	-0.003645370815568	-0.000439875336226
749	massimi	1.585759	2.656616	-8.047495	0.002780520117028	0.003843045996874	0.000458808551655
749	minimi	-1.466057	-2.619541	-20.058328	-0.003517749718023	-0.003675658373366	-0.000452354194506
750	massimi	1.714189	2.749128	-5.757838	0.002860533542135	0.003488238221952	0.00043225911476
750	minimi	-1.59656	-2.707843	-22.556266	-0.003418952034695	-0.003778503693999	-0.000426065918452
751	massimi	1.841084	2.704102	-6.853757	0.002994436095413	0.003701879524861	0.000433164208316
751	minimi	-1.725669	-2.664922	-21.645784	-0.003272657201554	-0.003711951119516	-0.000426245688394
752	massimi	1.840912	2.749297	-5.718395	0.00295040010202	0.003571770730549	0.000449129321105
752	minimi	-1.725461	-2.70797	-22.744528	-0.003331822163302	-0.003760192646753	-0.000442409694981
753	massimi	1.841039	2.656738	-7.967587	0.002949873621779	0.00384392561079	0.000432132598
753	minimi	-1.725617	-2.619748	-20.501894	-0.003331280232536	-0.003675681334615	-0.000447460019484
754	massimi	1.585868	2.749434	-5.766623	0.002780022954176	0.003572645849572	0.000453630808476
754	minimi	-1.466194	-2.708192	-22.332642	-0.003517237104646	-0.003760209113111	-0.000447308938317
755	massimi	1.034511	1.526515	-4.898356	0.00368992052082	0.003927497117675	0.000118245891495
755	minimi	-1.217007	-1.543174	-11.917575	-0.003955828067367	-0.003677949252315	-0.000138329076007
756	massimi	1.042262	1.446907	-7.664413	0.003788225124562	0.003813183586899	0.000125087236745
756	minimi	-1.21259	-1.47752	-9.287968	-0.00381896370023	-0.003869793250859	-0.000146013056482
757	massimi	1.042262	1.600174	-2.781625	0.003788225124562	0.003990920795329	0.000108990703101
757	minimi	-1.21259	-1.602808	-13.855476	-0.00381896370023	-0.003438449874679	-0.000130105361296
758	massimi	1.03471	1.600018	-2.477786	0.00375603202128	0.004003195854635	0.000122429257646
758	minimi	-1.217161	-1.60285	-14.104127	-0.003920051048227	-0.003535670071136	-0.000144821544889
759	massimi	1.049253	1.526515	-4.419142	0.003887511930526	0.003927497117675	0.000115933903775
759	minimi	-1.207091	-1.543174	-12.430975	-0.003683087875457	-0.003677949252315	-0.000137906334947
760	massimi	1.049387	1.447513	-5.977967	0.003868589314474	0.003876406713762	0.00012927622164
760	minimi	-1.207345	-1.478185	-10.951563	-0.003764524229473	-0.003843367017878	-0.000152096264706
761	massimi	1.049287	1.600811	-2.049566	0.003856314264337	0.004004957310897	0.000121798229773
761	minimi	-1.207215	-1.6034	-14.566341	-0.003754062442837	-0.003537226931225	-0.000144705990576
762	massimi	1.034677	1.448315	-6.394255	0.003743623292362	0.003878169620662	0.000129907428271
762	minimi	-1.217099	-1.478743	-10.501281	-0.003909455582809	-0.003844925328607	-0.000152211997777
763	massimi	1.112677	1.340708	-9.584245	0.003040384888036	0.0039189055858326	0.00010605683141
763	minimi	-1.155714	-1.346095	-13.096113	-0.00354969034245	-0.003742086745315	-0.000105176892736
764	massimi	1.11188	1.36475	-7.99235	0.003201082699807	0.003661874073169	0.000096910153425
764	minimi	-1.152729	-1.372652	-14.846965	-0.00338215685484	-0.003911237897872	-0.000100676011409
765	massimi	1.11188	1.312129	-9.024525	0.003201082699807	0.004125187876204	0.000101054686588
765	minimi	-1.152729	-1.314977	-13.591395	-0.00338215685484	-0.003524477701705	-0.000104881604802
766	massimi	1.112854	1.31272	-8.764344	0.00312626544697	0.004096783919855	0.000108087227542
766	minimi	-1.155886	-1.315613	-13.69758	-0.003494627732896	-0.003616775481485	-0.000112122413681
767	massimi	1.109836	1.340708	-9.110286	0.003362460063486	0.0039189055858326	0.000096495861314
767	minimi	-1.14842	-1.346095	-13.771457	-0.003215340298097	-0.003742086745315	-0.000100520163486
768	massimi	1.110024	1.365063	-7.716999	0.00330985120613	0.003766290173258	0.000104767149704
768	minimi	-1.148633	-1.372983	-15.167399	-0.003304060094328	-0.003892679260393	-0.000108897596361
769	massimi	1.109958	1.312886	-8.32232	0.003306115584048	0.004097854988156	0.000106688314419
769	minimi	-1.148558	-1.31572	-14.339858	-0.003301609276278	-0.003616641313578	-0.000110847124375
770	massimi	1.112772	1.365266	-7.464601	0.003122543482785	0.003767341834041	0.000106158486934
770	minimi	-1.155795	-1.373128	-15.219543	-0.003492191572743	-0.003892525684968	-0.000110165309774
771	massimi	1.438383	2.513326	-6.482109	0.002666015682622	0.002367911773948	0.000349446737261
771	minimi	-1.18989	-2.642618	-19.747671	-0.003740154088285	-0.003420191294435	-0.000336795986816
772	massimi	1.548068	2.474321	-7.553924	0.00278631152157	0.002557970226556	0.000344383567215
772	minimi	-1.304013	-2.608131	-19.284223	-0.003599092087197	-0.003348880394848	-0.000331201975872
773	massimi	1.438828	2.474751	-7.533235	0.002714241250357	0.002491959553972	0.000357437749148
773	minimi	-1.19036	-2.608479	-19.008854	-0.003695085676967	-0.003380610394742	-0.000343829840255
774	massimi	1.548068	2.54944	-5.443918	0.00278631152157	0.002177869780322	0.000342725274112
774	minimi	-1.304013	-2.674034	-20.707739	-0.003599092087197	-0.003491505662527	-0.000328347596451
775	massimi	1.655833	2.513326	-6.446955	0.002906802333279	0.002367911773948	0.000337564055321
775	minimi	-1.416556	-2.642618	-20.31307	-0.003458215025029	-0.003420191294435	-0.000322655536762
776	massimi	1.655696	2.549666	-5.398567	0.002867133728916	0.002250625238008	0.000352488606057
776	minimi	-1.41642	-2.674202	-20.987554	-0.003516083485525	-0.003471170748778	-0.000337618238624

777	massimi	1.655811	2.474759	-7.474027	0.002867442483377	0.00249285014332	0.000353098254306
777	minimi	-1.416443	-2.608662	-19.597367	-0.003514777970278	-0.003380254122376	-0.000338665082307
778	massimi	1.438925	2.549686	-5.41353	0.002714568781605	0.002251508729364	0.000356835712181
778	minimi	-1.190365	-2.674397	-20.443285	-0.003693798938508	-0.003470807378422	-0.000342790607855
779	massimi	1.19935	1.31537	-1.782691	0.004356555588949	0.003976943346901	0.000086051798547
779	minimi	-1.498774	-1.373242	-13.373567	-0.004756626923147	-0.003851845743466	-0.000077982705407
780	massimi	1.208059	1.325288	-4.455189	0.00446107453672	0.003879104410326	0.000081840469177
780	minimi	-1.511515	-1.378789	-10.851173	-0.004650542463017	-0.004027524151752	-0.000075128599107
781	massimi	1.208059	1.300524	-0.726755	0.00446107453672	0.004023440480924	0.000085537021017
781	minimi	-1.511515	-1.362521	-14.421559	-0.004650542463017	-0.003626446964849	-0.000079481170885
782	massimi	1.199019	1.300393	-0.371066	0.0044309172328	0.004047797166853	0.000091458207574
782	minimi	-1.49856	-1.36261	-14.637953	-0.004740855202562	-0.003728375860499	-0.000084285883189
783	massimi	1.214892	1.31537	-3.354703	0.004566856711738	0.003976943346901	0.000081473696969
783	minimi	-1.521804	-1.373242	-12.012277	-0.004545760309802	-0.003851845743466	-0.000076770472563
784	massimi	1.214453	1.32503	-5.569598	0.004550713019249	0.003944772868525	0.000088488130483
784	minimi	-1.521433	-1.378792	-9.806176	-0.004620589768089	-0.004014420723745	-0.000081929441058
785	massimi	1.215549	1.301851	-0.921836	0.004533524336655	0.00403585027729	0.000090195877966
785	minimi	-1.522426	-1.363635	-14.29672	-0.004604310069101	-0.003715167871109	-0.000083941917698
786	massimi	1.200108	1.326496	-2.905077	0.004413583498202	0.00393295255113	0.000089725442144
786	minimi	-1.499547	-1.379825	-12.26116	-0.004724430451569	-0.004001339306523	-0.000082248386602
787	massimi	1.439305	1.1734	-6.770502	0.00359086501667	0.003886168826867	0.000162111593701
787	minimi	-1.457339	-1.228987	-12.641554	-0.004205969977514	-0.003900976514134	-0.000165062546532
788	massimi	1.400701	1.10093	-5.29909	0.003734721155559	0.003644615883497	0.000166881059891
788	minimi	-1.416968	-1.158422	-14.245511	-0.004071410558336	-0.004019907942704	-0.000169606073358
789	massimi	1.400701	1.242096	-8.188081	0.003734721155559	0.004077387029087	0.000159768234078
789	minimi	-1.416968	-1.295541	-11.375228	-0.004071410558336	-0.003731518411619	-0.00016312336283
790	massimi	1.438882	1.242136	-6.921803	0.003671355769115	0.004057339098785	0.000173628885017
790	minimi	-1.456956	-1.295626	-12.409081	-0.004168394548593	-0.003816098157515	-0.000177020056381
791	massimi	1.360878	1.1734	-7.367748	0.003881161222955	0.003886168826867	0.000165426763923
791	minimi	-1.375346	-1.228987	-12.418764	-0.003939446055127	-0.003900976514134	-0.0001685581439
792	massimi	1.360999	1.101689	-5.565437	0.003836867958099	0.003748614605734	0.00017764852909
792	minimi	-1.375531	-1.159205	-14.11919	-0.004016492678449	-0.004021811290174	-0.000180796231968
793	massimi	1.36164	1.2423	-7.396245	0.003834066910502	0.004049816193709	0.000174341943335
793	minimi	-1.376074	-1.295767	-12.306993	-0.004013584035151	-0.003806334235443	-0.000177782343253
794	massimi	1.439565	1.101829	-4.545129	0.003668826554483	0.003741108832132	0.000176930473569
794	minimi	-1.457541	-1.159322	-14.767145	-0.004165757738261	-0.004012064499576	-0.000180028947893
795	massimi	1.846315	2.248534	-3.522236	0.002418113861557	0.003644060231941	0.000145443658749
795	minimi	-1.755637	-2.600276	-13.847974	-0.004006312562949	-0.003982372506928	-0.000175470309335
796	massimi	1.804075	2.23823	-4.702007	0.002486814358932	0.003773094706142	0.000150875124094
796	minimi	-1.703441	-2.579842	-13.24056	-0.003903167309204	-0.003939550399267	-0.000182063282706
797	massimi	1.846152	2.238525	-4.709817	0.002447254898348	0.003731876516846	0.000154365613968
797	minimi	-1.75556	-2.580174	-12.751121	-0.003975264809125	-0.003962704489566	-0.000185677389747
798	massimi	1.804075	2.256088	-2.361741	0.002486814358932	0.003515012362342	0.000155299430118
798	minimi	-1.703441	-2.617471	-15.360117	-0.003903167309204	-0.004025177042701	-0.000183233605775
799	massimi	1.759629	2.248534	-3.504734	0.002555639213254	0.00364406023194	0.000159465646745
799	minimi	-1.64918	-2.600276	-14.789482	-0.003800128927413	-0.003982372506928	-0.000188561330427
800	massimi	1.759687	2.256341	-2.343808	0.002534584694309	0.003568015506004	0.000160686216615
800	minimi	-1.649377	-2.617709	-15.81918	-0.00384436317346	-0.004017074910349	-0.000190468302654
801	massimi	1.760281	2.238583	-4.640627	0.00253443835796	0.00373186275154	0.00015946552089
801	minimi	-1.649718	-2.580304	-13.742679	-0.003843697842636	-0.003960517940682	-0.000190437008118
802	massimi	1.846732	2.256389	-2.313296	0.002447130332453	0.003567994638268	0.000155566959114
802	minimi	-1.755888	-2.617829	-14.927323	-0.003974621248755	-0.004014881259035	-0.000185689333704
803	massimi	1.697947	2.324677	-8.922205	0.004907612403215	0.003292093613077	0.000193262368702
803	minimi	-2.109912	-2.258845	-15.444612	-0.005241391152829	-0.001988115590856	-0.000172962552692
804	massimi	1.722351	2.276191	-9.938454	0.005032107872113	0.003428493132982	0.000200331262671
804	minimi	-2.140749	-2.216546	-14.033707	-0.005126195949873	-0.001884831907001	-0.000181662245495
805	massimi	1.697842	2.276096	-9.473551	0.004962672439983	0.003383712386157	0.000201612651932
805	minimi	-2.109856	-2.216576	-14.440482	-0.005208099262828	-0.001925518456205	-0.000181817048706
806	massimi	1.722351	2.370062	-8.766594	0.005032107872113	0.003155681946733	0.000181794690498
806	minimi	-2.140749	-2.298135	-16.056261	-0.005126195949873	-0.002091403225987	-0.000163734691223
807	massimi	1.744747	2.324677	-8.544631	0.005156591595619	0.003292093613077	0.000188898495472
807	minimi	-2.168994	-2.258845	-15.883567	-0.005010987839999	-0.001988115590856	-0.000172469295031
808	massimi	1.744512	2.36972	-8.221718	0.005120761149931	0.003210497147446	0.000193241448237
808	minimi	-2.168776	-2.297951	-16.602776	-0.005061813242119	-0.002056677948149	-0.000175083247989
809	massimi	1.745318	2.277156	-8.826923	0.005117773400565	0.003384311249128	0.000200010727334
809	minimi	-2.169629	-2.217335	-15.148384	-0.005060825885405	-0.001925972981544	-0.000181629917863
810	massimi	1.698634	2.370779	-8.330274	0.004959692564149	0.003211093907492	0.000194830062338
810	minimi	-2.110695	-2.298709	-16.432947	-0.005207119779645	-0.002057130370564	-0.000175257068335
811	massimi	1.985304	2.190037	-6.793068	0.003949317203079	0.002383657047478	0.000272354663179

811	minimi	-1.901843	-2.214634	-15.879302	-0.004486206064862	-0.003296157443695	-0.000277433499304
812	massimi	1.947906	2.26467	-5.538016	0.004035836505652	0.002446277611985	0.000269162991956
812	minimi	-1.862819	-2.287683	-17.534417	-0.004349803066072	-0.003135848136421	-0.000273962027578
813	massimi	1.98519	2.264743	-6.036257	0.003987554720258	0.002428414178271	0.000281819963853
813	minimi	-1.901722	-2.287732	-16.907149	-0.004444268472573	-0.003201083965982	-0.00028684691041
814	massimi	1.947906	2.112589	-7.034586	0.004035836505652	0.002321022591884	0.00028590441966
814	minimi	-1.862819	-2.138735	-15.442547	-0.004349803066072	-0.003456441594989	-0.000290475911482
815	massimi	1.90893	2.190037	-5.546724	0.004122405849831	0.002383657047478	0.000292872981504
815	minimi	-1.822335	-2.214634	-17.330473	-0.004213446232945	-0.003296157443695	-0.000287064672822
816	massimi	1.909034	2.113065	-6.098711	0.004097447964269	0.002348888578011	0.000291748786043
816	minimi	-1.822441	-2.139179	-16.454912	-0.004271078773159	-0.003404641309147	-0.000296404841956
817	massimi	1.909543	2.264783	-4.978958	0.00409716790114	0.002426115015549	0.000285628856606
817	minimi	-1.822932	-2.287834	-18.168911	-0.004269398871186	-0.003198303156798	-0.000290368084702
818	massimi	1.985732	2.1131	-7.532125	0.003987263217319	0.002346584300106	0.000287938809008
818	minimi	-1.902247	-2.139276	-14.817035	-0.004442577130791	-0.003401855384781	-0.000292882583382
819	massimi	1.374579	2.265123	-3.191919	0.005024880909313	0.004427491457561	0.000166376008558
819	minimi	-1.401368	-2.278344	-20.773974	-0.005572887326191	-0.005083365954975	-0.000201778815859
820	massimi	1.354869	2.313413	-4.272613	0.005180697069638	0.004535046871679	0.000161442422156
820	minimi	-1.369807	-2.314763	-20.008904	-0.005492423221974	-0.004954635131996	-0.000196975479078
821	massimi	1.374243	2.313182	-2.770555	0.005092584252598	0.004504549292111	0.000171163663581
821	minimi	-1.401008	-2.314571	-21.381238	-0.00555338520404	-0.005011696663876	-0.000207815530495
822	massimi	1.354869	2.214002	-5.120961	0.005180697069638	0.004320049119309	0.000178374562575
822	minimi	-1.369807	-2.239076	-18.732674	-0.005492423221974	-0.005212201756995	-0.000213785313074
823	massimi	1.336827	2.265123	-6.234896	0.005336591856988	0.004427491457561	0.000173385946445
823	minimi	-1.339892	-2.278344	-17.934362	-0.005412033896497	-0.005083365954975	-0.000208926946564
824	massimi	1.336635	2.214036	-6.663633	0.00529048529908	0.004368028699395	0.000179916390596
824	minimi	-1.339739	-2.239086	-17.264041	-0.005453193875795	-0.00517522176225	-0.000216574064331
825	massimi	1.33747	2.313987	-5.724511	0.005285574098673	0.004501276119309	0.000173726059327
825	minimi	-1.340564	-2.315365	-18.630286	-0.005447276518458	-0.005007945281554	-0.000210428438707
826	massimi	1.375153	2.214835	-3.53065	0.005087645563665	0.004364778533289	0.000177354096959
826	minimi	-1.401908	-2.239874	-20.194019	-0.00554939367454	-0.005171493386623	-0.000213961258229
827	massimi	1.516879	2.145537	-2.232756	0.003796924673565	0.003002744811479	0.000164847322397
827	minimi	-1.397106	-2.266318	-15.824771	-0.004670722409198	-0.004207389614759	-0.000185059856028
828	massimi	1.5102	2.167672	-3.510093	0.003938633919155	0.003089967933846	0.00016210208324
828	minimi	-1.383775	-2.281805	-15.167823	-0.004635903286818	-0.004118072629514	-0.000182268059689
829	massimi	1.516779	2.167889	-2.29571	0.003854760996216	0.003063984035301	0.000170441393827
829	minimi	-1.397015	-2.282011	-16.133668	-0.004666163705956	-0.004159018318135	-0.000191141622163
830	massimi	1.5102	2.120599	-3.522762	0.003938633919155	0.002916086409261	0.000175020580204
830	minimi	-1.383775	-2.247859	-14.369264	-0.004635903286818	-0.004297256448716	-0.000194089657918
831	massimi	1.502643	2.145537	-4.962603	0.00408033159599	0.003002744811479	0.000172262884908
831	minimi	-1.369742	-2.266318	-13.549811	-0.004601063987836	-0.004207389614759	-0.000191305855439
832	massimi	1.502596	2.120943	-5.006732	0.004034700342539	0.00295328562645	0.000177874836101
832	minimi	-1.369739	-2.248156	-13.092228	-0.004621930981447	-0.004272491980116	-0.000197739148671
833	massimi	1.503128	2.167904	-4.692857	0.004035217082536	0.003061930422828	0.00017315554694
833	minimi	-1.370184	-2.282116	-14.190602	-0.004620599712834	-0.004155895046131	-0.000193428274653
834	massimi	1.517323	2.120953	-2.023716	0.003855268548595	0.002951253518488	0.000175167514143
834	minimi	-1.397472	-2.248258	-15.621163	-0.004664823249724	-0.004269390212623	-0.000195459327336
835	massimi	1.86752	2.376671	-6.893775	0.002498517918731	0.003608066685454	0.000108702472742
835	minimi	-1.626386	-2.465929	-14.962957	-0.003323919356358	-0.004305469746009	-0.000136658634947
836	massimi	1.881665	2.381785	-6.031299	0.002615621839119	0.003683358907074	0.000108668659534
836	minimi	-1.631395	-2.46202	-16.251868	-0.003225533030994	-0.004165263652427	-0.000135880059129
837	massimi	1.867494	2.382035	-5.876364	0.002545511218431	0.003662385236975	0.000112222895105
837	minimi	-1.626335	-2.462215	-16.182412	-0.003293763701118	-0.00422455584794	-0.00014048911817
838	massimi	1.881665	2.368352	-8.075353	0.002615621839119	0.003532745346883	0.000109056265007
838	minimi	-1.631395	-2.466509	-13.752839	-0.003225533030994	-0.004445638113142	-0.000135441934613
839	massimi	1.893385	2.376671	-7.185097	0.00273347150368	0.003608066685454	0.000108871300872
839	minimi	-1.634328	-2.465929	-15.06953	-0.0031278849204	-0.004305469746009	-0.00013451220787
840	massimi	1.89329	2.368637	-8.216223	0.002694478633441	0.003566754138495	0.000112502137546
840	minimi	-1.634256	-2.466693	-13.785576	-0.003169083535445	-0.004402572330145	-0.000139620262548
841	massimi	1.893914	2.382136	-6.018842	0.002694423526594	0.003661008922504	0.000112283195848
841	minimi	-1.634815	-2.462496	-16.437124	-0.003167958563973	-0.00422243887435	-0.00013970314303
842	massimi	1.868117	2.368739	-7.778682	0.002545447478008	0.003565381718878	0.000112440009445
842	minimi	-1.626894	-2.466974	-13.825925	-0.003292630096071	-0.004400264264492	-0.000140404410329
843	massimi	2.032705	2.175027	-0.615681	-0.000000530759619	0.002818444371503	0.000262943351552
843	minimi	-1.688229	-2.855317	-6.411983	-0.003269305813169	-0.003819925687303	-0.000222578625576
844	massimi	1.946149	2.147439	-2.108128	0.000016831862982	0.002882853006927	0.000270262708621
844	minimi	-1.615452	-2.841265	-6.289653	-0.003215691585617	-0.003813331545798	-0.000231515035678
845	massimi	2.032339	2.147784	-1.831712	0.000004482284235	0.002862285299631	0.000276749282407
845	minimi	-1.688101	-2.841545	-5.515531	-0.003254341474151	-0.003822755713138	-0.000235167182551

846	massimi	1.946149	2.200104	0.32749	0.000016831862982	0.002754004569061	0.00027146744725
846	minimi	-1.615452	-2.86591	-8.071921	-0.003215691585617	-0.003826476298422	-0.000226426381302
847	massimi	1.856957	2.175027	-1.153533	0.000038679760956	0.002818444371503	0.000278662072081
847	minimi	-1.5405	-2.855317	-7.961016	-0.003166523143253	-0.003819925687303	-0.000235238059168
848	massimi	1.857049	2.200317	0.060122	0.000027540421639	0.002780475877305	0.000282934416243
848	minimi	-1.540756	-2.866133	-8.83836	-0.003187243757642	-0.003831102144726	-0.000237933709466
849	massimi	1.857849	2.147814	-2.245005	0.000029267296815	0.002865495889471	0.000282487731164
849	minimi	-1.541067	-2.841813	-7.185425	-0.003187434291077	-0.003821059030483	-0.000239787395727
850	massimi	2.033129	2.200332	0.603532	0.000007164908171	0.002783685599474	0.000277181875913
850	minimi	-1.688402	-2.866385	-7.298583	-0.003255487756347	-0.0038294045944	-0.000233299404718
851	massimi	2.109118	0.923931	-5.755649	0.005195670877042	0.002126203509248	0.000209424430227
851	minimi	-1.738553	-1.09677	-9.943643	-0.006220894705299	-0.003431689348394	-0.000209516673124
852	massimi	2.108959	0.911945	-6.601532	0.005274116019088	0.002195580015865	0.000211172958691
852	minimi	-1.738678	-1.085206	-9.808193	-0.006146588816161	-0.003348301380288	-0.000210351929889
853	massimi	2.109235	0.912054	-5.722619	0.0052323402908602	0.002174430915496	0.000217284872553
853	minimi	-1.738684	-1.085203	-10.384262	-0.006204209761926	-0.003385699353878	-0.000216528602887
854	massimi	2.108959	0.935318	-7.330487	0.005274116019088	0.00205680190125	0.00020933355219
854	minimi	-1.738678	-1.107495	-8.227561	-0.006146588816161	-0.003515036098789	-0.000206913579968
855	massimi	2.106426	0.923931	-6.425406	0.005352498712605	0.002126203509248	0.000211169214679
855	minimi	-1.736944	-1.09677	-9.843074	-0.006072209707746	-0.003431689348394	-0.000207835970759
856	massimi	2.106547	0.935373	-6.244293	0.005331914372515	0.002086315305008	0.00021725019103
856	minimi	-1.737077	-1.107441	-9.580597	-0.006109804319949	-0.003491563259281	-0.000214657383378
857	massimi	2.106873	0.912142	-6.009457	0.005332886958202	0.002172943124775	0.000217921030532
857	minimi	-1.737279	-1.085558	-10.665603	-0.00610877419989	-0.003382873129425	-0.000215912671303
858	massimi	2.109556	0.935446	-5.556378	0.005233311376682	0.002084829728359	0.000216611158721
858	minimi	-1.73888	-1.107781	-9.700334	-0.006203178134259	-0.003488739248899	-0.000215270440631
859	massimi	1.934956	0.231541	-0.095414	0.003328094616829	-0.000547736170819	0.000325893582824
859	minimi	-1.507298	-0.35273	-6.042681	-0.004324635761386	-0.002416408368375	-0.0003289525066311
860	massimi	1.90556	0.326049	-1.677503	0.003372595340497	-0.000534001835467	0.000325473907338
860	minimi	-1.490416	-0.459958	-5.734857	-0.004314942695861	-0.002375924801553	-0.000287745701525
861	massimi	1.935087	0.32588	-0.355826	0.00334817009442	-0.000540895317177	0.000336961092016
861	minimi	-1.507451	-0.459622	-6.741593	-0.004328722175436	-0.002394334277316	-0.000298302314569
862	massimi	1.90556	0.138083	-1.221534	0.003372595340497	-0.000561449161061	0.000328686308076
862	minimi	-1.490416	-0.246385	-4.257066	-0.004314942695861	-0.002456876687701	-0.000289836970396
863	massimi	1.875071	0.231541	-2.308893	0.003417060374954	-0.000547736170819	0.000328310936114
863	minimi	-1.473021	-0.35273	-4.443973	-0.004305202307769	-0.002416408368375	-0.000288101909134
864	massimi	1.875363	0.13841	-2.118444	0.003404656728987	-0.000558327720647	0.000339018899802
864	minimi	-1.473267	-0.246612	-3.662325	-0.004316382808809	-0.002445727875038	-0.000298546534706
865	massimi	1.87544	0.325779	-2.492942	0.003407889998008	-0.000538907595863	0.000337844517325
865	minimi	-1.473257	-0.45982	-5.21816	-0.004315068874693	-0.002394876372482	-0.00029778195019
866	massimi	1.935169	0.138301	0.165868	0.003351402409005	-0.000556329355484	0.000338135097513
866	minimi	-1.507445	-0.246802	-5.332954	-0.004327407286884	-0.002446280614054	-0.000299066522106
867	massimi	2.671502	0.616113	-7.25609	0.005544135090613	0.004980203093962	0.00012626458881
867	minimi	-2.637804	-0.575346	-8.676432	-0.005562863523963	-0.00485444748101	-0.000119504945518
868	massimi	2.707819	0.615283	-5.684494	0.005605296168786	0.005055806951463	0.000114107455794
868	minimi	-2.676409	-0.576853	-10.163607	-0.005472246525721	-0.004778274859582	-0.000107013951768
869	massimi	2.671987	0.615365	-6.02451	0.0055755893118	0.005035692251518	0.000122418920276
869	minimi	-2.638277	-0.576912	-9.849102	-0.005538596924769	-0.004813263934145	-0.000115267911686
870	massimi	2.707819	0.616642	-5.404489	0.005605296168786	0.004904544678871	0.000114612494753
870	minimi	-2.676409	-0.573593	-10.525653	-0.005472246525721	-0.004930567097312	-0.000107896136462
871	massimi	2.740397	0.616113	-4.628017	0.005666392581197	0.004980203093962	0.000102867598784
871	minimi	-2.711318	-0.575346	-11.217705	-0.005381566504225	-0.00485444748101	-0.000095817379759
872	massimi	2.740701	0.616701	-4.158216	0.005653214638083	0.004939652640582	0.000113939956883
872	minimi	-2.711597	-0.573641	-11.710647	-0.005423486134674	-0.004909960439587	-0.000106820591502
873	massimi	2.740638	0.615368	-4.512311	0.005653065375108	0.005036804361206	0.000113754040302
873	minimi	-2.711563	-0.576937	-11.274655	-0.005423529789524	-0.004814580151206	-0.000106496819993
874	massimi	2.671923	0.616742	-6.239348	0.005575440608473	0.004940761802553	0.000122602398442
874	minimi	-2.638243	-0.573706	-9.71616	-0.005538641139267	-0.00491127370893	-0.00011558924478
875	massimi	2.510975	0.751829	-9.393696	0.005489359597109	0.004153221276173	0.00011598797883
875	minimi	-2.528987	-0.721394	-13.433616	-0.005629714192758	-0.003764787316738	-0.000111291086387
876	massimi	2.54389	0.752838	-9.362119	0.005602384807016	0.004259685509472	0.000104472952599
876	minimi	-2.563457	-0.723965	-13.311469	-0.005519551076049	-0.00364806613234	-0.000099725789482
877	massimi	2.511437	0.752883	-8.75609	0.005539878512352	0.004226966990722	0.000112277759132
877	minimi	-2.529445	-0.724008	-13.918395	-0.005598322218004	-0.003696134902822	-0.000107433226407
878	massimi	2.54389	0.750184	-9.438679	0.005602384807016	0.00404672649361	0.000108546885599
878	minimi	-2.563457	-0.71823	-13.488317	-0.005519551076049	-0.00388148274712	-0.000104081274288
879	massimi	2.573316	0.751829	-9.284456	0.005715352570181	0.004153221276173	0.000097670358986
879	minimi	-2.594409	-0.721394	-13.488817	-0.005409331535188	-0.003764787316738	-0.000093154477001
880	massimi	2.573614	0.750222	-8.706316	0.00568336822008	0.004091752209304	0.000107464592127

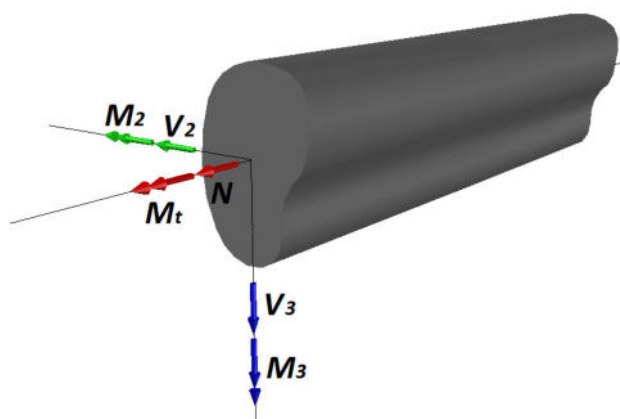
880	minimi	-2.594695	-0.718276	-14.167185	-0.005458394277268	-0.003844337769868	-0.000102789135919
881	massimi	2.573536	0.752986	-8.724926	0.005682947284183	0.00422808026274	0.000105754928187
881	minimi	-2.594638	-0.724098	-13.895615	-0.005458569225984	-0.003697375247524	-0.000100976558701
882	massimi	2.511359	0.750352	-8.900159	0.005539457146229	0.004092866582249	0.000113737299153
882	minimi	-2.529389	-0.718391	-14.027285	-0.005598496736493	-0.003845579215496	-0.000108995679706
883	massimi	1.942927	0.752482	-9.708332	0.00543590937337	0.003564592679706	0.00010494546399
883	minimi	-1.975504	-0.73997	-13.576937	-0.005656472997498	-0.002984820483412	-0.000099108730751
884	massimi	1.969989	0.754328	-9.873363	0.005548336590786	0.003680398156075	0.0000965998128
884	minimi	-2.004488	-0.743723	-13.220307	-0.005540726917747	-0.002872456288252	-0.000090864779794
885	massimi	1.943271	0.75437	-9.055333	0.00548628370723	0.003643335971724	0.000103600034266
885	minimi	-1.975853	-0.74377	-14.014262	-0.00562309130015	-0.002917749693849	-0.000097654080601
886	massimi	1.969989	0.749951	-10.361694	0.005548336590786	0.003448755480529	0.000101552779192
886	minimi	-2.004488	-0.735549	-13.110209	-0.005540726917747	-0.003097160113098	-0.000095933502143
887	massimi	1.994472	0.752482	-9.630995	0.005660700869205	0.003564592679706	0.000093307621009
887	minimi	-2.030846	-0.73997	-13.649309	-0.005424917992941	-0.002984820483412	-0.000087790044194
888	massimi	1.994707	0.749998	-9.429272	0.005629010715683	0.00349625944128	0.00010115354648
888	minimi	-2.031076	-0.735611	-14.012932	-0.00547606984756	-0.003060421624448	-0.000095366562702
889	massimi	1.994629	0.754474	-9.185123	0.005628268775795	0.00364441722778	0.000099344011276
889	minimi	-2.031007	-0.74385	-13.879517	-0.005476217318399	-0.002918842623671	-0.000093514716191
890	massimi	1.943243	0.750116	-9.648109	0.005485541697695	0.003497339599773	0.000105411729893
890	minimi	-1.975834	-0.735704	-13.79905	-0.005623238701342	-0.003061513456707	-0.00009508087535
891	massimi	1.758679	0.754551	-9.067932	0.005425789959552	0.003323713256345	0.000107648736892
891	minimi	-1.82403	-0.753623	-14.265965	-0.005657469897102	-0.002732656991641	-0.000097623035276
892	massimi	1.760685	0.754936	-8.897892	0.005543200112166	0.003425587978716	0.000101655446633
892	minimi	-1.82933	-0.757255	-14.244175	-0.005546168710182	-0.002605824004472	-0.000091942970191
893	massimi	1.758933	0.754961	-8.447122	0.005478046361972	0.00339344444885	0.000107968656624
893	minimi	-1.824301	-0.757296	-14.66737	-0.005625782273435	-0.002656222376666	-0.000097819109841
894	massimi	1.760685	0.753513	-9.445721	0.005543200112166	0.003221885571892	0.000106635749652
894	minimi	-1.82933	-0.749339	-14.081941	-0.005546168710182	-0.002859544313364	-0.000096931861247
895	massimi	1.760392	0.754551	-8.947108	0.005660582253826	0.003323713256345	0.000100731068007
895	minimi	-1.832236	-0.753623	-14.388725	-0.005434839475661	-0.002732656991641	-0.000091340404775
896	massimi	1.760642	0.75354	-9.012384	0.005627122390788	0.003264105870253	0.000107258835222
896	minimi	-1.832486	-0.749399	-14.488954	-0.005484426518922	-0.002817315581398	-0.000097344547825
897	massimi	1.760608	0.755107	-8.244646	0.005626231497965	0.00339406441395	0.000105439600473
897	minimi	-1.832453	-0.757392	-14.871779	-0.005484442347369	-0.002656837787731	-0.000095522173963
898	massimi	1.7589	0.75369	-8.728806	0.005477153598253	0.003264729428263	0.000109790667707
898	minimi	-1.824269	-0.749499	-14.770598	-0.005625796230986	-0.002817934585373	-0.000099644260038
899	massimi	1.561709	0.730249	-9.733696	0.005422040687565	0.003194526439867	0.00010483151972
899	minimi	-1.678194	-0.747819	-13.47625	-0.005685151018675	-0.002745384546665	-0.00009120630236
900	massimi	1.562734	0.72957	-9.866	0.005533059193248	0.003310917355792	0.000100890498571
900	minimi	-1.683672	-0.751497	-13.209042	-0.005568629241009	-0.002634237732031	-0.000087905954314
901	massimi	1.561923	0.729574	-9.3059	0.005471963634094	0.003273369240016	0.000105854772575
901	minimi	-1.678442	-0.751535	-13.731007	-0.00565171895764	-0.002679058582017	-0.000092178489948
902	massimi	1.562734	0.730275	-10.271836	0.005533059193248	0.0030781125542	0.000104470673157
902	minimi	-1.683672	-0.743464	-13.096219	-0.005568629241009	-0.00285651393625	-0.000091323587738
903	massimi	1.561752	0.730249	-9.491279	0.005644016362886	0.003194526439867	0.000100807378349
903	minimi	-1.686975	-0.747819	-13.741873	-0.005452045688183	-0.002745384546665	-0.000088300966034
904	massimi	1.561967	0.730278	-9.441858	0.005612902908657	0.00312555363136	0.00010584497333
904	minimi	-1.687201	-0.743524	-13.910708	-0.005503713272681	-0.00282018966466	-0.000092518225847
905	massimi	1.561954	0.729762	-9.002463	0.005611985225483	0.003273799578927	0.000104027285301
905	minimi	-1.687176	-0.751637	-14.057608	-0.005503484604297	-0.002679434354011	-0.00009075995013
906	massimi	1.561912	0.730464	-9.490926	0.005471046120434	0.003125983550279	0.000106730918754
906	minimi	-1.678418	-0.743623	-13.838475	-0.00565149045877	-0.002820563284885	-0.000092995223815
907	massimi	14.078565	17.640264	0.00	0.00	0.00	0.000875374250363
907	minimi	-14.078565	-17.640264	0.00	0.00	0.00	-0.000875374250363
908	massimi	23.662724	27.902778	0.00	0.00	0.00	0.001498779153404
908	minimi	-23.662724	-27.902778	0.00	0.00	0.00	-0.001498779153404
909	massimi	30.807991	33.944159	0.00	0.00	0.00	0.001940611903788
909	minimi	-30.807991	-33.944159	0.00	0.00	0.00	-0.001940611903788
910	massimi	43.343641	51.09927	0.00	0.00	0.00	0.002605533282976
910	minimi	-43.343641	-51.09927	0.00	0.00	0.00	-0.002605533282976

1.4.3.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x :** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N :** sforzo normale;
- **V_2 :** sforzo di taglio in direzione 2;
- **V_3 :** sforzo di taglio in direzione 3;
- **M_t :** momento torcente;
- **M_2 :** momento flettente nel piano 1-2;
- **M_3 :** momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V_2 kN	V_3 kN	M_t kNm	M_2 kNm	M_3 kNm
Asta 1 (11-1)	31	massimi	0.00	29.65341	1.85922	41.33639	4.72638	68.51466	4.445
Asta 1 (11-1)	31	massimi	237.00	29.65341	1.85922	28.04069	4.72638	7.79987	0.589
Asta 1 (11-1)	31	massimi	474.00	29.65341	1.85922	14.74499	4.72638	58.49934	3.621
Asta 1 (11-1)	31	minimi	0.00	-21.1157	-1.45923	-20.82977	-5.51383	-74.41364	-3.302
Asta 1 (11-1)	31	minimi	237.00	-21.1157	-1.45923	-34.12546	-5.51383	3.39104	-0.394
Asta 1 (11-1)	31	minimi	474.00	-21.1157	-1.45923	-47.42116	-5.51383	-93.24014	-4.375
Asta 2 (1-221)	32	massimi	0.00	50.28443	2.05427	43.51374	4.67439	61.74574	5.666
Asta 2 (1-221)	32	massimi	315.00	50.28443	2.05427	25.84224	4.67439	13.26249	0.653
Asta 2 (1-221)	32	massimi	630.00	50.28443	2.05427	8.17074	4.67439	59.10646	6.682
Asta 2 (1-221)	32	minimi	0.00	-16.23329	-1.93112	-6.56067	-5.3034	-103.70131	-5.519
Asta 2 (1-221)	32	minimi	315.00	-16.23329	-1.93112	-24.23216	-5.3034	5.51892	-0.894
Asta 2 (1-221)	32	minimi	630.00	-16.23329	-1.93112	-41.90366	-5.3034	-90.91853	-7.311
Asta 3 (6-16)	33	massimi	0.00	28.25793	3.33907	48.20566	4.14158	40.36969	7.498
Asta 3 (6-16)	33	massimi	237.00	28.25793	3.33907	34.90996	4.14158	7.20243	0.686
Asta 3 (6-16)	33	massimi	474.00	28.25793	3.33907	21.61426	4.14158	70.73525	6.594
Asta 3 (6-16)	33	minimi	0.00	-17.88499	-2.59808	-7.3494	-5.18825	-94.73829	-5.728
Asta 3 (6-16)	33	minimi	237.00	-17.88499	-2.59808	-20.6451	-5.18825	3.74749	-0.673
Asta 3 (6-16)	33	minimi	474.00	-17.88499	-2.59808	-33.9408	-5.18825	-57.48841	-8.337

Asta 4 (221-6)	34	massimi	0.00	48.3913	2.17244	41.3163	7.69588	60.49212	7.138
Asta 4 (221-6)	34	massimi	315.00	48.3913	2.17244	23.64481	7.69588	13.23642	0.857
Asta 4 (221-6)	34	massimi	630.00	48.3913	2.17244	5.97331	7.69588	59.86907	7.122
Asta 4 (221-6)	34	minimi	0.00	-16.24956	-2.37082	-8.62897	-7.00585	-89.09487	-7.829
Asta 4 (221-6)	34	minimi	315.00	-16.24956	-2.37082	-26.30046	-7.00585	5.46073	-0.923
Asta 4 (221-6)	34	minimi	630.00	-16.24956	-2.37082	-43.97196	-7.00585	-105.20246	-6.563
Asta 5 (26-11)	35	massimi	0.00	21.06146	1.29267	47.19793	4.45442	69.95285	2.765
Asta 5 (26-11)	35	massimi	237.00	21.06146	1.29267	33.90223	4.45442	5.93966	0.421
Asta 5 (26-11)	35	massimi	474.00	21.06146	1.29267	20.60653	4.45442	70.41809	3.704
Asta 5 (26-11)	35	minimi	0.00	-10.51598	-1.4456	-20.68261	-5.41789	-90.27869	-3.153
Asta 5 (26-11)	35	minimi	237.00	-10.51598	-1.4456	-33.97831	-5.41789	5.065	-0.447
Asta 5 (26-11)	35	minimi	474.00	-10.51598	-1.4456	-47.27401	-5.41789	-91.10455	-3.368
Asta 6 (11-226)	36	massimi	0.00	90.19971	1.88717	39.91271	6.64314	41.0598	5.666
Asta 6 (11-226)	36	massimi	315.00	90.19971	1.88717	22.24121	6.64314	12.62544	0.374
Asta 6 (11-226)	36	massimi	630.00	90.19971	1.88717	4.56971	6.64314	47.85693	5.663
Asta 6 (11-226)	36	minimi	0.00	-44.89078	-1.718	-0.19233	-6.8514	-92.26317	-5.172
Asta 6 (11-226)	36	minimi	315.00	-44.89078	-1.718	-17.86383	-6.8514	5.62514	-0.414
Asta 6 (11-226)	36	minimi	630.00	-44.89078	-1.718	-35.53533	-6.8514	-71.48283	-6.235
Asta 7 (16-21)	37	massimi	0.00	16.56762	0.53029	27.80455	2.29521	47.82497	1.72
Asta 7 (16-21)	37	massimi	307.50	16.56762	0.53029	18.02605	2.29521	5.89299	0.254
Asta 7 (16-21)	37	massimi	615.00	16.56762	0.53029	8.24755	2.29521	46.06513	1.583
Asta 7 (16-21)	37	minimi	0.00	-1.14217	-0.57019	-9.13112	-3.27811	-64.79582	-1.93
Asta 7 (16-21)	37	minimi	307.50	-1.14217	-0.57019	-18.90962	-3.27811	4.48808	-0.342
Asta 7 (16-21)	37	minimi	615.00	-1.14217	-0.57019	-28.68812	-3.27811	-68.46992	-1.548
Asta 8 (16-31)	38	massimi	0.00	25.5998	2.25302	44.21704	5.10692	52.18	5.917
Asta 8 (16-31)	38	massimi	237.00	25.5998	2.25302	30.92134	5.10692	6.2188	0.849
Asta 8 (16-31)	38	massimi	474.00	25.5998	2.25302	17.62564	5.10692	62.95243	3.673
Asta 8 (16-31)	38	minimi	0.00	-5.73257	-1.72482	-12.84257	-5.74579	-83.61532	-4.507
Asta 8 (16-31)	38	minimi	237.00	-5.73257	-1.72482	-26.13827	-5.74579	5.19256	-0.691
Asta 8 (16-31)	38	minimi	474.00	-5.73257	-1.72482	-39.43397	-5.74579	-71.71601	-4.767
Asta 9 (226-16)	39	massimi	0.00	45.27556	1.91364	37.4379	8.83521	54.80797	6.087
Asta 9 (226-16)	39	massimi	315.00	45.27556	1.91364	19.7664	8.83521	13.37327	0.359
Asta 9 (226-16)	39	massimi	630.00	45.27556	1.91364	2.09491	8.83521	47.79113	6.514
Asta 9 (226-16)	39	minimi	0.00	-4.2005	-2.12085	-6.7483	-8.33299	-76.73883	-6.851
Asta 9 (226-16)	39	minimi	315.00	-4.2005	-2.12085	-24.4198	-8.33299	5.7029	-0.471

Asta 9 (226-16)	39	minimi	630.00	-4.2005	-2.12085	-42.0913	-8.33299	-99.03838	-5.973
Asta 10 (21-36)	40	massimi	0.00	20.1607	0.44013	39.5352	2.2967	43.82887	1.308
Asta 10 (21-36)	40	massimi	237.00	20.1607	0.44013	31.9986	2.2967	7.10886	0.318
Asta 10 (21-36)	40	massimi	474.00	20.1607	0.44013	24.462	2.2967	64.87385	0.555
Asta 10 (21-36)	40	minimi	0.00	10.02325	-0.2221	-11.7256	-3.43855	-86.79961	-0.675
Asta 10 (21-36)	40	minimi	237.00	10.02325	-0.2221	-19.2622	-3.43855	-2.03258	-0.201
Asta 10 (21-36)	40	minimi	474.00	10.02325	-0.2221	-26.7988	-3.43855	-47.47404	-0.955
Asta 11 (41-26)	41	massimi	0.00	11.02649	0.92922	47.18666	4.99875	69.28067	2.056
Asta 11 (41-26)	41	massimi	237.00	11.02649	0.92922	33.89096	4.99875	5.34839	-0.019
Asta 11 (41-26)	41	massimi	474.00	11.02649	0.92922	20.59526	4.99875	69.86583	1.584
Asta 11 (41-26)	41	minimi	0.00	-2.9624	-0.74682	-20.35599	-4.90991	-90.77732	-1.959
Asta 11 (41-26)	41	minimi	237.00	-2.9624	-0.74682	-33.65169	-4.90991	5.23282	-0.316
Asta 11 (41-26)	41	minimi	474.00	-2.9624	-0.74682	-46.94739	-4.90991	-90.22838	-2.352
Asta 12 (26-231)	42	massimi	0.00	61.81315	1.93784	35.22539	6.90588	28.95119	5.894
Asta 12 (26-231)	42	massimi	315.00	61.81315	1.93784	17.55389	6.90588	11.75299	0.503
Asta 12 (26-231)	42	massimi	630.00	61.81315	1.93784	-0.11761	6.90588	33.81963	5.784
Asta 12 (26-231)	42	minimi	0.00	-23.22924	-1.79266	3.37075	-6.99477	-76.77156	-5.522
Asta 12 (26-231)	42	minimi	315.00	-23.22924	-1.79266	-14.30075	-6.99477	6.33926	-0.588
Asta 12 (26-231)	42	minimi	630.00	-23.22924	-1.79266	-31.97225	-6.99477	-61.14521	-6.326
Asta 13 (31-36)	43	massimi	0.00	15.19781	0.55427	24.55171	1.36244	33.40432	1.697
Asta 13 (31-36)	43	massimi	307.50	15.19781	0.55427	14.77321	1.36244	5.41669	0.131
Asta 13 (31-36)	43	massimi	615.00	15.19781	0.55427	4.99471	1.36244	35.6185	2.049
Asta 13 (31-36)	43	minimi	0.00	7.18757	-0.66857	-4.57418	-1.38352	-55.23738	-2.065
Asta 13 (31-36)	43	minimi	307.50	7.18757	-0.66857	-14.35268	-1.38352	4.11227	-0.148
Asta 13 (31-36)	43	minimi	615.00	7.18757	-0.66857	-24.13119	-1.38352	-54.8653	-1.714
Asta 14 (31-46)	44	massimi	0.00	20.32593	1.5005	42.84054	4.94789	56.13853	3.767
Asta 14 (31-46)	44	massimi	237.00	20.32593	1.5005	29.54484	4.94789	5.51892	0.408
Asta 14 (31-46)	44	massimi	474.00	20.32593	1.5005	16.24914	4.94789	59.68965	2.232
Asta 14 (31-46)	44	minimi	0.00	-0.36889	-0.88245	-14.7121	-4.92017	-80.35291	-2.069
Asta 14 (31-46)	44	minimi	237.00	-0.36889	-0.88245	-28.0078	-4.92017	5.42031	-0.174
Asta 14 (31-46)	44	minimi	474.00	-0.36889	-0.88245	-41.3035	-4.92017	-76.61843	-3.464
Asta 15 (231-31)	45	massimi	0.00	21.02885	1.94296	33.71399	8.81595	41.37788	6.276
Asta 15 (231-31)	45	massimi	315.00	21.02885	1.94296	16.04249	8.81595	12.36463	0.681
Asta 15 (231-31)	45	massimi	630.00	21.02885	1.94296	-1.62901	8.81595	35.05968	6.807
Asta 15 (231-31)	45	minimi	0.00	10.76746	-2.14543	-2.05672	-8.82623	-66.00844	-6.88

Asta 15 (231-31)	45	minimi	315.00	10.76746	-2.14543	-19.72822	-8.82623	7.05996	-0.647
Asta 15 (231-31)	45	minimi	630.00	10.76746	-2.14543	-37.39972	-8.82623	-82.91038	-6.136
Asta 16 (36-51)	46	massimi	0.00	46.59608	1.44028	37.08157	4.0546	44.56373	2.339
Asta 16 (36-51)	46	massimi	237.00	46.59608	1.44028	29.54497	4.0546	4.85252	1.364
Asta 16 (36-51)	46	massimi	474.00	46.59608	1.44028	22.00836	4.0546	65.09107	4.292
Asta 16 (36-51)	46	minimi	0.00	14.38464	-1.2719	-13.14217	-2.3831	-74.95278	-1.929
Asta 16 (36-51)	46	minimi	237.00	14.38464	-1.2719	-20.67877	-2.3831	3.63307	-1.353
Asta 16 (36-51)	46	minimi	474.00	14.38464	-1.2719	-28.21537	-2.3831	-53.45435	-4.68
Asta 17 (71-41)	47	massimi	0.00	8.35974	1.51102	47.68576	5.54448	70.33912	3.998
Asta 17 (71-41)	47	massimi	237.00	8.35974	1.51102	34.39006	5.54448	5.64948	0.428
Asta 17 (71-41)	47	massimi	474.00	8.35974	1.51102	21.09436	5.54448	71.03526	2.764
Asta 17 (71-41)	47	minimi	0.00	-1.53852	-1.54947	-20.7407	-4.35242	-91.97387	-4.584
Asta 17 (71-41)	47	minimi	237.00	-1.53852	-1.54947	-34.0364	-4.35242	5.06474	-0.923
Asta 17 (71-41)	47	minimi	474.00	-1.53852	-1.54947	-47.3321	-4.35242	-90.99369	-3.168
Asta 18 (41-236)	48	massimi	0.00	56.02874	1.89988	34.84478	6.92024	27.31906	5.549
Asta 18 (41-236)	48	massimi	315.00	56.02874	1.89988	17.17328	6.92024	11.52751	0.203
Asta 18 (41-236)	48	massimi	630.00	56.02874	1.89988	-0.49822	6.92024	32.73362	5.986
Asta 18 (41-236)	48	minimi	0.00	-20.26396	-1.89335	3.82247	-6.98543	-75.45806	-5.962
Asta 18 (41-236)	48	minimi	315.00	-20.26396	-1.89335	-13.84903	-6.98543	6.4701	-0.637
Asta 18 (41-236)	48	minimi	630.00	-20.26396	-1.89335	-31.52053	-6.98543	-59.92985	-6.44
Asta 19 (46-51)	49	massimi	0.00	22.15355	0.8977	24.72421	0.77866	24.1068	2.072
Asta 19 (46-51)	49	massimi	307.50	22.15355	0.8977	14.94571	0.77866	6.38197	0.921
Asta 19 (46-51)	49	massimi	615.00	22.15355	0.8977	5.16721	0.77866	35.82915	3.833
Asta 19 (46-51)	49	minimi	0.00	3.30276	-0.95911	-0.87897	-2.00727	-56.09158	-2.298
Asta 19 (46-51)	49	minimi	307.50	3.30276	-0.95911	-10.65747	-2.00727	4.88848	-0.957
Asta 19 (46-51)	49	minimi	615.00	3.30276	-0.95911	-20.43597	-2.00727	-41.44124	-3.681
Asta 20 (46-76)	50	massimi	0.00	15.92867	2.46651	42.60587	5.44792	58.32825	5.293
Asta 20 (46-76)	50	massimi	237.00	15.92867	2.46651	29.31017	5.44792	5.6893	0.606
Asta 20 (46-76)	50	massimi	474.00	15.92867	2.46651	16.01447	5.44792	59.21157	4.976
Asta 20 (46-76)	50	minimi	0.00	2.8434	-1.84811	-15.632	-4.40325	-79.71878	-3.786
Asta 20 (46-76)	50	minimi	237.00	2.8434	-1.84811	-28.9277	-4.40325	5.33744	-0.565
Asta 20 (46-76)	50	minimi	474.00	2.8434	-1.84811	-42.2234	-4.40325	-78.78918	-6.401
Asta 21 (236-46)	51	massimi	0.00	17.86989	1.96667	32.27348	8.65659	36.16097	6.539
Asta 21 (236-46)	51	massimi	315.00	17.86989	1.96667	14.60198	8.65659	12.24377	0.55
Asta 21 (236-46)	51	massimi	630.00	17.86989	1.96667	-3.06951	8.65659	30.1098	6.814

Asta 21 (236-46)	51	minimi	0.00	10.47995	-2.17263	-0.25058	-9.03665	-61.88445	-6.882
Asta 21 (236-46)	51	minimi	315.00	10.47995	-2.17263	-17.92208	-9.03665	7.23966	-0.244
Asta 21 (236-46)	51	minimi	630.00	10.47995	-2.17263	-35.59358	-9.03665	-76.74989	-5.859
Asta 22 (66-51)	52	massimi	0.00	80.21627	12.94971	32.63093	32.41768	5.64428	17.967
Asta 22 (66-51)	52	massimi	116.50	80.21627	12.94971	28.92623	32.41768	28.43634	3.547
Asta 22 (66-51)	52	massimi	233.00	80.21627	12.94971	25.22153	32.41768	59.30347	12.852
Asta 22 (66-51)	52	minimi	0.00	-2.45127	-13.65143	-24.38319	-0.7635	-12.26503	-18.995
Asta 22 (66-51)	52	minimi	116.50	-2.45127	-13.65143	-28.08789	-0.7635	-29.76445	-3.758
Asta 22 (66-51)	52	minimi	233.00	-2.45127	-13.65143	-31.7926	-0.7635	-63.97089	-12.245
Asta 23 (61-56)	53	massimi	0.00	7.58115	14.93252	17.51415	8.4734	32.10303	6.886
Asta 23 (61-56)	53	massimi	204.50	15.04278	2.43669	-0.33413	8.4734	-18.53317	6.686
Asta 23 (61-56)	53	massimi	409.00	31.49864	18.78708	60.981	8.4734	-17.97022	13.101
Asta 23 (61-56)	53	minimi	0.00	-4.69338	-13.77568	-58.91393	3.31517	-43.10396	-4.914
Asta 23 (61-56)	53	minimi	204.50	-17.94593	-1.58513	-23.73893	3.31518	-52.4149	-6.824
Asta 23 (61-56)	53	minimi	409.00	-40.2265	-18.5135	3.01852	3.31519	-46.77493	-14.457
Asta 24 (56-66)	54	massimi	0.00	32.05011	5.01068	39.58003	5.3559	-21.49144	11.16
Asta 24 (56-66)	54	massimi	205.50	32.05011	5.01068	33.04513	5.3559	-4.00426	0.966
Asta 24 (56-66)	54	massimi	411.00	32.05011	5.01068	26.51023	5.3559	56.69383	9.369
Asta 24 (56-66)	54	minimi	0.00	-30.32593	-4.91006	11.48092	-7.71623	-79.24324	-10.82
Asta 24 (56-66)	54	minimi	205.50	-30.32593	-4.91006	4.94602	-7.71623	-5.22939	-0.833
Asta 24 (56-66)	54	minimi	411.00	-30.32593	-4.91006	-1.58888	-7.71623	-1.28489	-9.442
Asta 25 (56-86)	55	massimi	0.00	14.24921	11.54624	-43.71691	7.05953	56.93553	4.197
Asta 25 (56-86)	55	massimi	166.00	4.34819	3.91079	35.7408	7.05954	-34.72295	7.943
Asta 25 (56-86)	55	massimi	332.00	15.21683	25.60306	89.4309	7.05954	65.303	14.674
Asta 25 (56-86)	55	minimi	0.00	-13.73187	-16.16283	-86.25734	-8.63002	-40.69605	-6.326
Asta 25 (56-86)	55	minimi	166.00	-4.51226	-4.08225	-32.28888	-8.63002	-44.63135	-6.184
Asta 25 (56-86)	55	minimi	332.00	-16.06357	-21.68172	43.81037	-8.63001	-39.42209	-16.036
Asta 26 (91-61)	56	massimi	0.00	13.08724	24.29589	10.91851	9.92622	49.83022	13.539
Asta 26 (91-61)	56	massimi	166.00	3.47925	4.0031	35.86161	9.92623	-3.76087	7.095
Asta 26 (91-61)	56	massimi	332.00	14.36926	12.04361	40.59699	9.92623	48.52446	6.677
Asta 26 (91-61)	56	minimi	0.00	-13.8159	-20.48424	-35.16361	-9.46309	-57.18187	-12.404
Asta 26 (91-61)	56	minimi	166.00	-4.14456	-4.23822	-37.35253	-9.46309	-22.04353	-8.934
Asta 26 (91-61)	56	minimi	332.00	-14.97632	-16.66601	-17.83635	-9.46309	-60.08117	-4.569
Asta 27 (81-66)	57	massimi	0.00	76.15302	18.37819	25.5761	0.71368	66.45216	24.695
Asta 27 (81-66)	57	massimi	120.50	76.15302	18.37819	21.7442	0.71368	31.78506	3.189

Asta 27 (81-66)	57	massimi	241.00	76.15302	18.37819	17.9123	0.71368	4.01938	18.741
Asta 27 (81-66)	57	minimi	0.00	1.51136	-17.35573	-26.9221	-24.46844	-53.7196	-23.186
Asta 27 (81-66)	57	minimi	120.50	1.51136	-17.35573	-30.754	-24.46844	-25.29188	-2.912
Asta 27 (81-66)	57	minimi	241.00	1.51136	-17.35573	-34.58591	-24.46844	-13.00047	-19.696
Asta 28 (101-71)	58	massimi	0.00	13.30442	4.09663	48.86397	5.22965	70.2731	13.103
Asta 28 (101-71)	58	massimi	237.00	13.30442	4.09663	35.56827	5.22965	8.2442	3.419
Asta 28 (101-71)	58	massimi	474.00	13.30442	4.09663	22.27257	5.22965	71.6179	3.08
Asta 28 (101-71)	58	minimi	0.00	-9.33192	-2.28803	-19.525	-4.39809	-96.97574	-7.824
Asta 28 (101-71)	58	minimi	237.00	-9.33192	-2.28803	-32.8207	-4.39809	3.0757	-2.425
Asta 28 (101-71)	58	minimi	474.00	-9.33192	-2.28803	-46.1164	-4.39809	-85.29707	-6.373
Asta 29 (71-241)	59	massimi	0.00	43.07142	1.54477	34.33177	6.86479	21.37581	3.896
Asta 29 (71-241)	59	massimi	315.00	43.07142	1.54477	16.66027	6.86479	11.36205	0.429
Asta 29 (71-241)	59	massimi	630.00	43.07142	1.54477	-1.01123	6.86479	31.33051	5.695
Asta 29 (71-241)	59	minimi	0.00	-0.78118	-1.77479	5.59044	-6.88456	-73.63011	-5.508
Asta 29 (71-241)	59	minimi	315.00	-0.78118	-1.77479	-12.08105	-6.88456	6.4734	-1.316
Asta 29 (71-241)	59	minimi	630.00	-0.78118	-1.77479	-29.75255	-6.88456	-54.73577	-5.857
Asta 30 (76-81)	60	massimi	0.00	72.94218	0.80921	25.45696	0.8143	21.48131	1.656
Asta 30 (76-81)	60	massimi	307.50	72.94218	0.80921	15.67846	0.8143	9.69908	0.847
Asta 30 (76-81)	60	massimi	615.00	72.94218	0.80921	5.89996	0.8143	37.89076	3.04
Asta 30 (76-81)	60	minimi	0.00	-34.58837	-0.72668	1.05359	-2.42953	-58.57136	-1.473
Asta 30 (76-81)	60	minimi	307.50	-34.58837	-0.72668	-8.72491	-2.42953	4.66195	-0.917
Asta 30 (76-81)	60	minimi	615.00	-34.58837	-0.72668	-18.50341	-2.42953	-32.21645	-3.364
Asta 31 (76-106)	61	massimi	0.00	9.96956	2.78627	40.84362	5.57493	65.16442	4.335
Asta 31 (76-106)	61	massimi	237.00	9.96956	2.78627	27.54792	5.57493	7.77226	3.559
Asta 31 (76-106)	61	massimi	474.00	9.96956	2.78627	14.25222	5.57493	57.28168	9.51
Asta 31 (76-106)	61	minimi	0.00	3.25071	-2.78523	-19.34748	-4.2945	-73.29559	-4.36
Asta 31 (76-106)	61	minimi	237.00	3.25071	-2.78523	-32.64318	-4.2945	3.53163	-3.586
Asta 31 (76-106)	61	minimi	474.00	3.25071	-2.78523	-45.93888	-4.2945	-89.56437	-9.54
Asta 32 (241-76)	62	massimi	0.00	40.65052	1.89394	32.46081	8.49622	34.39208	6.374
Asta 32 (241-76)	62	massimi	315.00	40.65052	1.89394	14.78931	8.49622	12.29582	0.842
Asta 32 (241-76)	62	massimi	630.00	40.65052	1.89394	-2.88219	8.49622	31.04873	6.361
Asta 32 (241-76)	62	minimi	0.00	-2.43661	-2.01227	0.22377	-9.22379	-62.124	-6.33
Asta 32 (241-76)	62	minimi	315.00	-2.43661	-2.01227	-17.44773	-9.22379	7.26347	-0.424
Asta 32 (241-76)	62	minimi	630.00	-2.43661	-2.01227	-35.11923	-9.22379	-75.52868	-5.571
Asta 33 (96-81)	63	massimi	0.00	104.21791	58.32611	40.24021	50.79574	38.19086	24.201

Asta 33 (96-81)	63	massimi	45.50	104.21791	58.32611	38.7933	50.79574	54.97586	5.142
Asta 33 (96-81)	63	massimi	91.00	104.21791	58.32611	37.3464	50.79574	71.23433	32.11
Asta 33 (96-81)	63	minimi	0.00	-25.94363	-61.99941	-16.70392	-3.46324	-34.74081	-25.46
Asta 33 (96-81)	63	minimi	45.50	-25.94363	-61.99941	-18.15082	-3.46324	-41.47514	-4.73
Asta 33 (96-81)	63	minimi	91.00	-25.94363	-61.99941	-19.59772	-3.46324	-48.99962	-30.026
Asta 34 (86-91)	64	massimi	0.00	56.79726	17.24904	7.72401	-1.70408	-14.2805	13.376
Asta 34 (86-91)	64	massimi	204.50	32.4356	5.12143	22.87016	-1.70407	-12.75868	6.813
Asta 34 (86-91)	64	massimi	409.00	9.86645	15.92268	50.40894	-1.70406	30.5138	13.246
Asta 34 (86-91)	64	minimi	0.00	-63.05813	-18.55704	-65.22087	-8.14699	-52.4642	-15.083
Asta 34 (86-91)	64	minimi	204.50	-33.69887	-5.76326	0.91643	-8.147	-55.14974	-6.604
Asta 34 (86-91)	64	minimi	409.00	-6.14681	-16.37113	-12.89801	-8.147	-42.53658	-11.98
Asta 35 (86-96)	65	massimi	0.00	68.14941	6.24816	42.34023	6.71369	-17.23911	12.199
Asta 35 (86-96)	65	massimi	205.50	68.14941	6.24816	35.80533	6.71369	0.42883	1.83
Asta 35 (86-96)	65	massimi	411.00	68.14941	6.24816	29.27043	6.71369	66.41715	13.218
Asta 35 (86-96)	65	minimi	0.00	-64.16885	-6.18188	9.54627	1.39936	-80.76672	-12.231
Asta 35 (86-96)	65	minimi	205.50	-64.16885	-6.18188	3.01137	1.39936	-5.23711	-1.997
Asta 35 (86-96)	65	minimi	411.00	-64.16885	-6.18188	-3.52353	1.39936	-4.88634	-13.521
Asta 36 (111-96)	66	massimi	0.00	99.5565	6.28496	37.13444	1.92557	48.05386	9.065
Asta 36 (111-96)	66	massimi	191.50	99.5565	6.28496	31.04474	1.92557	13.53268	2.622
Asta 36 (111-96)	66	massimi	383.00	99.5565	6.28496	24.95504	1.92557	44.26052	14.059
Asta 36 (111-96)	66	minimi	0.00	-21.3485	-5.9777	-14.98625	-16.12389	-74.67123	-8.844
Asta 36 (111-96)	66	minimi	191.50	-21.3485	-5.9777	-21.07595	-16.12389	-9.39804	-2.989
Asta 36 (111-96)	66	minimi	383.00	-21.3485	-5.9777	-27.16566	-16.12389	-32.69743	-15.015
Asta 37 (116-101)	67	massimi	0.00	75.94572	8.72548	19.81966	5.58689	78.45327	12.199
Asta 37 (116-101)	67	massimi	173.00	75.94572	8.72548	10.11436	5.58689	5.46617	3.487
Asta 37 (116-101)	67	massimi	346.00	75.94572	8.72548	0.40906	5.58689	14.55551	21.502
Asta 37 (116-101)	67	minimi	0.00	-4.7879	-10.45703	-45.07839	-4.7031	-20.44357	-14.71
Asta 37 (116-101)	67	minimi	173.00	-4.7879	-10.45703	-54.78369	-4.7031	-7.94424	-3.001
Asta 37 (116-101)	67	minimi	346.00	-4.7879	-10.45703	-64.48899	-4.7031	-111.10169	-18.021
Asta 38 (106-111)	68	massimi	0.00	24.03693	0.83622	25.57812	0.87917	42.1862	2.976
Asta 38 (106-111)	68	massimi	307.50	24.03693	0.83622	15.79961	0.87917	6.13041	0.507

Asta 38 (106-111)	68	massimi	615.00	24.03693	0.83622	6.02111	0.87917	38.60867	2.346
Asta 38 (106-111)	68	minimi	0.00	7.79714	-0.78606	-6.84681	-3.63807	-58.5591	-2.72
Asta 38 (106-111)	68	minimi	307.50	7.79714	-0.78606	-16.62532	-3.63807	5.02656	-0.406
Asta 38 (106-111)	68	minimi	615.00	7.79714	-0.78606	-26.40382	-3.63807	-60.05963	-2.399
Asta 39 (121-106)	69	massimi	0.00	43.13338	15.00841	26.00667	4.69116	50.08706	15.233
Asta 39 (121-106)	69	massimi	127.00	43.13338	15.00841	18.88197	4.69116	5.59425	3.951
Asta 39 (121-106)	69	massimi	254.00	43.13338	15.00841	11.75727	4.69116	24.97165	24.283
Asta 39 (121-106)	69	minimi	0.00	17.034	-16.13862	-44.41949	-5.06433	-23.04145	-16.741
Asta 39 (121-106)	69	minimi	127.00	17.034	-16.13862	-51.54419	-5.06433	-10.9813	-4.024
Asta 39 (121-106)	69	minimi	254.00	17.034	-16.13862	-58.66889	-5.06433	-80.88809	-22.921
Asta 40 (111-141)	70	massimi	0.00	116.08609	3.85654	28.97635	3.95291	73.43761	5.459
Asta 40 (111-141)	70	massimi	165.00	116.08609	3.85654	23.72935	3.95291	14.66143	0.425
Asta 40 (111-141)	70	massimi	330.00	116.08609	3.85654	18.48235	3.95291	34.92077	8.006
Asta 40 (111-141)	70	minimi	0.00	-66.76017	-4.61286	-33.09182	-0.77033	-43.43973	-7.223
Asta 40 (111-141)	70	minimi	165.00	-66.76017	-4.61286	-38.33882	-0.77033	-0.11162	-0.94
Asta 40 (111-141)	70	minimi	330.00	-66.76017	-4.61286	-43.58582	-0.77033	-53.13413	-7.274
Asta 41 (116-121)	71	massimi	0.00	85.69164	2.00926	33.47763	5.35727	41.9913	9.748
Asta 41 (116-121)	71	massimi	330.00	85.69164	2.00926	14.96463	5.35727	15.89048	6.595
Asta 41 (116-121)	71	massimi	660.00	85.69164	2.00926	-3.54837	5.35727	33.53444	9.089
Asta 41 (116-121)	71	minimi	0.00	27.74841	-1.40313	0.67391	-6.37558	-65.24451	-7.219
Asta 41 (116-121)	71	minimi	330.00	27.74841	-1.40313	-17.83909	-6.37558	12.46347	-6.067
Asta 41 (116-121)	71	minimi	660.00	27.74841	-1.40313	-36.35209	-6.37558	-75.75912	-10.561
Asta 42 (126-116)	72	massimi	0.00	15.45164	0.27979	28.91277	6.37875	53.16357	0.546
Asta 42 (126-116)	72	massimi	330.00	15.45164	0.27979	18.41877	6.37875	6.72463	0.539

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Asta 42 (126-116)	72	massimi	660.00	15.45164	0.27979	7.92477	6.37875	49.03968	1.708
Asta 42 (126-116)	72	minimi	0.00	4.30643	-0.42947	-8.83808	-1.67604	-72.52437	-1.234
Asta 42 (126-116)	72	minimi	330.00	4.30643	-0.42947	-19.33208	-1.67604	5.53083	-0.733
Asta 42 (126-116)	72	minimi	660.00	4.30643	-0.42947	-29.82608	-1.67604	-74.42835	-1.408
Asta 43 (121-136)	73	massimi	0.00	23.34023	0.54744	48.69061	3.36063	65.63223	2.062
Asta 43 (121-136)	73	massimi	165.00	23.34023	0.54744	43.44361	3.36063	7.97208	1.20
Asta 43 (121-136)	73	massimi	330.00	23.34023	0.54744	38.19661	3.36063	64.2117	2.913
Asta 43 (121-136)	73	minimi	0.00	-6.45142	-2.36757	-32.32631	-4.39289	-79.15339	-4.906
Asta 43 (121-136)	73	minimi	165.00	-6.45142	-2.36757	-37.57331	-4.39289	-3.14969	-1.041
Asta 43 (121-136)	73	minimi	330.00	-6.45142	-2.36757	-42.82031	-4.39289	-58.36087	0.25
Asta 44 (131-126)	74	massimi	0.00	38.70074	0.28961	26.3653	2.76385	40.49404	1.129
Asta 44 (131-126)	74	massimi	330.00	38.70074	0.28961	15.8713	2.76385	9.18009	0.194
Asta 44 (131-126)	74	massimi	660.00	38.70074	0.28961	5.37729	2.76385	44.23859	1.304
Asta 44 (131-126)	74	minimi	0.00	-13.81217	-0.42696	-5.76317	-3.68897	-60.51198	-1.525
Asta 44 (131-126)	74	minimi	330.00	-13.81217	-0.42696	-16.25718	-3.68897	4.15877	-0.137
Asta 44 (131-126)	74	minimi	660.00	-13.81217	-0.42696	-26.75118	-3.68897	-66.80334	-0.793
Asta 45 (136-131)	75	massimi	0.00	14.70398	2.64128	36.6926	2.91724	62.01713	3.958
Asta 45 (136-131)	75	massimi	165.00	14.70398	2.64128	31.4456	2.91724	7.6933	0.353
Asta 45 (136-131)	75	massimi	330.00	14.70398	2.64128	26.1986	2.91724	55.21189	3.355
Asta 45 (136-131)	75	minimi	0.00	0.97812	-1.82164	-37.5015	-0.48297	-48.56741	-2.657
Asta 45 (136-131)	75	minimi	165.00	0.97812	-1.82164	-42.74851	-0.48297	-4.23582	-0.404
Asta 45 (136-131)	75	minimi	330.00	0.97812	-1.82164	-47.99551	-0.48297	-79.06174	-4.759
Asta 46 (156-131)	76	massimi	0.00	82.776	1.50652	25.26506	2.24362	23.4613	3.756
Asta 46	76	massimi	244.50	82.776	1.50652	17.48996	2.24362	15.77629	1.293

(156-131)									
Asta 46 (156-131)	76	massimi	489.00	82.776	1.50652	9.71486	2.24362	49.02901	4.479
Asta 46 (156-131)	76	minimi	0.00	-70.57672	-1.47555	-6.38766	-3.03734	-36.49991	-3.398
Asta 46 (156-131)	76	minimi	244.50	-70.57672	-1.47555	-14.16276	-3.03734	-1.6698	-1.011
Asta 46 (156-131)	76	minimi	489.00	-70.57672	-1.47555	-21.93786	-3.03734	-45.79765	-4.272
Asta 47 (136-151)	77	massimi	0.00	14.00943	1.52208	27.21232	5.69838	52.00844	3.554
Asta 47 (136-151)	77	massimi	244.50	14.00943	1.52208	19.43722	5.69838	8.02963	0.225
Asta 47 (136-151)	77	massimi	489.00	14.00943	1.52208	11.66212	5.69838	39.01255	3.89
Asta 47 (136-151)	77	minimi	0.00	1.94999	-1.57726	-14.10015	-6.54872	-56.03563	-3.827
Asta 47 (136-151)	77	minimi	244.50	1.94999	-1.57726	-21.87525	-6.54872	0.99231	-0.363
Asta 47 (136-151)	77	minimi	489.00	1.94999	-1.57726	-29.65035	-6.54872	-54.96171	-3.893
Asta 48 (146-141)	78	massimi	0.00	21.42087	42.22958	46.19263	22.14655	80.75141	48.263
Asta 48 (146-141)	78	massimi	165.00	77.71495	14.11445	69.59697	22.14656	3.24371	26.543
Asta 48 (146-141)	78	massimi	330.00	134.69745	41.55799	293.76929	22.14657	179.84699	17.079
Asta 48 (146-141)	78	minimi	0.00	-8.73903	-42.45203	-96.56737	-29.34839	-109.60869	-47.915
Asta 48 (146-141)	78	minimi	165.00	-71.48914	-15.10436	-73.49733	-29.3484	-104.37742	-25.712
Asta 48 (146-141)	78	minimi	330.00	-134.8805	-46.89869	28.63224	-29.34841	-67.13215	-11.479
Asta 49 (151-141)	79	massimi	0.00	31.48825	2.75954	23.59231	6.88122	57.33109	5.096
Asta 49 (151-141)	79	massimi	190.00	31.48825	2.75954	17.55031	6.88122	3.27243	1.168
Asta 49 (151-141)	79	massimi	380.00	31.48825	2.75954	11.50831	6.88122	30.78359	3.783
Asta 49 (151-141)	79	minimi	0.00	-26.50685	-1.61416	-27.71717	-16.57664	-35.91499	-3.172
Asta 49 (151-141)	79	minimi	190.00	-26.50685	-1.61416	-33.75917	-16.57664	-1.17335	-1.421
Asta 49 (151-141)	79	minimi	380.00	-26.50685	-1.61416	-39.80117	-16.57664	-70.96114	-6.212
Asta 50 (156-146)	80	massimi	0.00	89.5467	22.99606	-49.58773	27.5845	68.18127	4.724

Asta 50 (156-146)	80	massimi	190.00	45.33424	9.08383	58.58577	27.58448	1.24442	15.475
Asta 50 (156-146)	80	massimi	380.00	24.82683	62.21236	105.11489	27.58446	83.40782	49.497
Asta 50 (156-146)	80	minimi	0.00	-84.98781	-21.90458	-178.20643	-37.84199	-33.91702	-5.329
Asta 50 (156-146)	80	minimi	190.00	-42.11948	-8.81959	-24.74829	-37.84198	-92.97537	-17.921
Asta 50 (156-146)	80	minimi	380.00	-22.9239	-66.93909	-57.3836	-37.84197	-74.88708	-48.47
Asta 51 (12-2)	81	massimi	0.00	-1.48665	-0.5079	90.61918	3.18442	159.69351	-1.003
Asta 51 (12-2)	81	massimi	237.00	-1.48665	-0.5079	68.36878	3.18442	20.78827	0.201
Asta 51 (12-2)	81	massimi	474.00	-1.48665	-0.5079	46.11838	3.18442	156.44465	1.405
Asta 51 (12-2)	81	minimi	0.00	-1.48665	-0.5079	-56.68792	-5.8926	-167.62481	-1.003
Asta 51 (12-2)	81	minimi	237.00	-1.48665	-0.5079	-78.93831	-5.8926	-1.03593	0.201
Asta 51 (12-2)	81	minimi	474.00	-1.48665	-0.5079	-101.18871	-5.8926	-214.47555	1.405
Asta 52 (2-222)	82	massimi	0.00	3.43626	0.42295	147.19251	7.41469	333.46127	1.378
Asta 52 (2-222)	82	massimi	315.00	3.43626	0.42295	84.86661	7.41469	185.72099	0.046
Asta 52 (2-222)	82	massimi	630.00	3.43626	0.42295	22.54072	7.41469	61.90897	-1.287
Asta 52 (2-222)	82	minimi	0.00	3.43626	0.42295	-15.76518	-8.52179	-474.53282	1.378
Asta 52 (2-222)	82	minimi	315.00	3.43626	0.42295	-78.09108	-8.52179	-109.12301	0.046
Asta 52 (2-222)	82	minimi	630.00	3.43626	0.42295	-140.41698	-8.52179	-160.29464	-1.287
Asta 53 (7-17)	83	massimi	0.00	-2.3556	0.32527	96.45555	8.09158	107.88211	0.589
Asta 53 (7-17)	83	massimi	237.00	-2.3556	0.32527	74.20515	8.09158	18.64775	-0.182
Asta 53 (7-17)	83	massimi	474.00	-2.3556	0.32527	51.95475	8.09158	149.29327	-0.953
Asta 53 (7-17)	83	minimi	0.00	-2.3556	0.32527	-26.58729	-10.1618	-202.44696	0.589
Asta 53 (7-17)	83	minimi	237.00	-2.3556	0.32527	-48.83769	-10.1618	-0.35828	-0.182
Asta 53 (7-17)	83	minimi	474.00	-2.3556	0.32527	-71.08809	-10.1618	-123.61637	-0.953
Asta 54 (222-7)	84	massimi	0.00	5.05401	-0.27683	137.64548	13.49132	60.94652	-1.298
Asta 54 (222-7)	84	massimi	315.00	5.05401	-0.27683	75.31958	13.49132	181.57847	-0.426
Asta 54 (222-7)	84	massimi	630.00	5.05401	-0.27683	12.99368	13.49132	320.57145	0.446
Asta 54 (222-7)	84	minimi	0.00	5.05401	-0.27683	-23.90356	-11.62399	-154.30497	-1.298
Asta 54 (222-7)	84	minimi	315.00	5.05401	-0.27683	-86.22946	-11.62399	-112.97645	-0.426
Asta 54 (222-7)	84	minimi	630.00	5.05401	-0.27683	-148.55536	-11.62399	-482.66214	0.446
Asta 55 (27-12)	85	massimi	0.00	-2.76227	-0.26414	95.70533	4.29331	154.33092	-0.732
Asta 55 (27-12)	85	massimi	237.00	-2.76227	-0.26414	73.45493	4.29331	10.4515	-0.106
Asta 55 (27-12)	85	massimi	474.00	-2.76227	-0.26414	51.20453	4.29331	157.90231	0.52
Asta 55	85	minimi	0.00	-2.76227	-0.26414	-50.12162	-5.31432	-190.27443	-0.732

(27-12)									
Asta 55 (27-12)	85	minimi	237.00	-2.76227	-0.26414	-72.37202	-5.31432	8.90495	-0.106
Asta 55 (27-12)	85	minimi	474.00	-2.76227	-0.26414	-94.62241	-5.31432	-188.7128	0.52
Asta 56 (12-227)	86	massimi	0.00	2.85144	0.41216	184.48614	11.13049	197.94895	1.668
Asta 56 (12-227)	86	massimi	315.00	2.85144	0.41216	76.93884	11.13049	187.376	0.369
Asta 56 (12-227)	86	massimi	630.00	2.85144	0.41216	-30.60846	11.13049	18.59799	-0.929
Asta 56 (12-227)	86	minimi	0.00	2.85144	0.41216	50.34987	-11.24168	-466.67256	1.668
Asta 56 (12-227)	86	minimi	315.00	2.85144	0.41216	-57.19743	-11.24168	-55.14018	0.369
Asta 56 (12-227)	86	minimi	630.00	2.85144	0.41216	-164.74473	-11.24168	-162.95074	-0.929
Asta 57 (22-17)	87	massimi	0.00	1.9077	-0.68787	183.76376	18.11107	151.12796	-2.106
Asta 57 (22-17)	87	massimi	307.50	1.9077	-0.68787	101.64681	18.11107	223.67561	0.009
Asta 57 (22-17)	87	massimi	615.00	1.9077	-0.68787	19.52986	18.11107	409.9778	2.124
Asta 57 (22-17)	87	minimi	0.00	1.9077	-0.68787	-36.92925	-11.17618	-215.16187	-2.106
Asta 57 (22-17)	87	minimi	307.50	1.9077	-0.68787	-119.0462	-11.17618	-88.70301	0.009
Asta 57 (22-17)	87	minimi	615.00	1.9077	-0.68787	-201.16315	-11.17618	-581.01796	2.124
Asta 58 (17-32)	88	massimi	0.00	-5.01159	0.39496	82.62331	1.9907	113.0453	1.151
Asta 58 (17-32)	88	massimi	237.00	-5.01159	0.39496	60.37291	1.9907	11.97712	0.215
Asta 58 (17-32)	88	massimi	474.00	-5.01159	0.39496	38.12251	1.9907	127.25274	-0.721
Asta 58 (17-32)	88	minimi	0.00	-5.01159	0.39496	-32.06076	-4.37028	-158.91718	1.151
Asta 58 (17-32)	88	minimi	237.00	-5.01159	0.39496	-54.31116	-4.37028	9.25079	0.215
Asta 58 (17-32)	88	minimi	474.00	-5.01159	0.39496	-76.56156	-4.37028	-144.39193	-0.721
Asta 59 (227-17)	89	massimi	0.00	4.55524	-0.04212	154.23717	15.74526	27.07498	-0.861
Asta 59 (227-17)	89	massimi	315.00	4.55524	-0.04212	46.68987	15.74526	154.28932	-0.729
Asta 59 (227-17)	89	massimi	630.00	4.55524	-0.04212	-60.85743	15.74526	128.79423	-0.596
Asta 59 (227-17)	89	minimi	0.00	4.55524	-0.04212	32.5242	-13.7651	-165.54424	-0.861
Asta 59 (227-17)	89	minimi	315.00	4.55524	-0.04212	-75.0231	-13.7651	-43.23426	-0.729
Asta 59 (227-17)	89	minimi	630.00	4.55524	-0.04212	-182.5704	-13.7651	-445.76284	-0.596
Asta 60 (37-22)	90	massimi	0.00	-9.37308	0.63101	58.80776	9.10099	87.8476	0.932
Asta 60 (37-22)	90	massimi	237.00	-9.37308	0.63101	29.27686	9.10099	79.9956	-0.563
Asta 60 (37-22)	90	massimi	474.00	-9.37308	0.63101	-0.25404	9.10099	112.96175	-2.059
Asta 60 (37-22)	90	minimi	0.00	-9.37308	0.63101	-34.56934	-5.48096	-30.34827	0.932
Asta 60 (37-22)	90	minimi	237.00	-9.37308	0.63101	-64.10024	-5.48096	-35.03945	-0.563
Asta 60 (37-22)	90	minimi	474.00	-9.37308	0.63101	-93.63114	-5.48096	-220.52525	-2.059
Asta 61 (42-27)	91	massimi	0.00	-3.32623	0.06196	95.82785	4.83201	154.492	-0.196
Asta 61 (42-27)	91	massimi	237.00	-3.32623	0.06196	73.57745	4.83201	9.08631	-0.343
Asta 61	91	massimi	474.00	-3.32623	0.06196	51.32705	4.83201	156.91929	-0.49

(42-27)									
Asta 61 (42-27)	91	minimi	0.00	-3.32623	0.06196	-50.347	-4.89713	-191.83795	-0.196
Asta 61 (42-27)	91	minimi	237.00	-3.32623	0.06196	-72.5974	-4.89713	8.62391	-0.343
Asta 61 (42-27)	91	minimi	474.00	-3.32623	0.06196	-94.8478	-4.89713	-189.61978	-0.49
Asta 62 (27-232)	92	massimi	0.00	3.51716	0.13461	167.0185	11.44238	142.96323	0.59
Asta 62 (27-232)	92	massimi	315.00	3.51716	0.13461	59.4712	11.44238	167.11041	0.166
Asta 62 (27-232)	92	massimi	630.00	3.51716	0.13461	-48.0761	11.44238	-14.15696	-0.258
Asta 62 (27-232)	92	minimi	0.00	3.51716	0.13461	61.39243	-11.46366	-388.93267	0.59
Asta 62 (27-232)	92	minimi	315.00	3.51716	0.13461	-46.15487	-11.46366	-32.35943	0.166
Asta 62 (27-232)	92	minimi	630.00	3.51716	0.13461	-153.70217	-11.46366	-147.91964	-0.258
Asta 63 (37-32)	93	massimi	0.00	4.30376	-1.07571	147.27391	17.95403	68.73868	-3.378
Asta 63 (37-32)	93	massimi	307.50	4.30376	-1.07571	42.28726	17.95403	124.12423	-0.07
Asta 63 (37-32)	93	massimi	615.00	4.30376	-1.07571	-62.69939	17.95403	92.114	3.238
Asta 63 (37-32)	93	minimi	0.00	4.30376	-1.07571	38.14098	-12.55074	-168.77536	-3.378
Asta 63 (37-32)	93	minimi	307.50	4.30376	-1.07571	-66.84567	-12.55074	23.15592	-0.07
Asta 63 (37-32)	93	minimi	615.00	4.30376	-1.07571	-171.83232	-12.55074	-343.18492	3.238
Asta 64 (32-47)	94	massimi	0.00	-6.13201	0.78817	81.34346	4.0505	120.05266	2.063
Asta 64 (32-47)	94	massimi	237.00	-6.13201	0.78817	59.09306	4.0505	9.78494	0.195
Asta 64 (32-47)	94	massimi	474.00	-6.13201	0.78817	36.84267	4.0505	122.86312	-1.673
Asta 64 (32-47)	94	minimi	0.00	-6.13201	0.78817	-35.40569	-4.46956	-157.23804	2.063
Asta 64 (32-47)	94	minimi	237.00	-6.13201	0.78817	-57.65609	-4.46956	9.16875	0.195
Asta 64 (32-47)	94	minimi	474.00	-6.13201	0.78817	-79.90649	-4.46956	-153.23725	-1.673
Asta 65 (232-32)	95	massimi	0.00	6.18257	0.04426	148.89681	15.15197	7.96336	-0.262
Asta 65 (232-32)	95	massimi	315.00	6.18257	0.04426	41.34951	15.15197	139.73117	-0.401
Asta 65 (232-32)	95	massimi	630.00	6.18257	0.04426	-66.19779	15.15197	99.93338	-0.541
Asta 65 (232-32)	95	minimi	0.00	6.18257	0.04426	39.52046	-14.68014	-160.82065	-0.262
Asta 65 (232-32)	95	minimi	315.00	6.18257	0.04426	-68.02684	-14.68014	-37.84807	-0.401
Asta 65 (232-32)	95	minimi	630.00	6.18257	0.04426	-175.57414	-14.68014	-420.85788	-0.541
Asta 66 (52-37)	96	massimi	0.00	-20.12648	0.67198	82.52822	3.01524	174.1814	0.708
Asta 66 (52-37)	96	massimi	237.00	-20.12648	0.67198	52.99732	3.01524	54.93414	-0.885
Asta 66 (52-37)	96	massimi	474.00	-20.12648	0.67198	23.46642	3.01524	144.84806	-2.477
Asta 66 (52-37)	96	minimi	0.00	-20.12648	0.67198	-45.91311	-7.25034	-108.4578	0.708
Asta 66 (52-37)	96	minimi	237.00	-20.12648	0.67198	-75.44401	-7.25034	27.57905	-0.885
Asta 66 (52-37)	96	minimi	474.00	-20.12648	0.67198	-104.97491	-7.25034	-185.52175	-2.477
Asta 67 (72-42)	97	massimi	0.00	-3.70682	0.30576	95.98618	5.24344	155.883	0.539
Asta 67	97	massimi	237.00	-3.70682	0.30576	73.73579	5.24344	9.9198	-0.185

(72-42)									
Asta 67 (72-42)	97	massimi	474.00	-3.70682	0.30576	51.48539	5.24344	157.65383	-0.91
Asta 67 (72-42)	97	minimi	0.00	-3.70682	0.30576	-50.75875	-4.41588	-191.85466	0.539
Asta 67 (72-42)	97	minimi	237.00	-3.70682	0.30576	-73.00915	-4.41588	8.56411	-0.185
Asta 67 (72-42)	97	minimi	474.00	-3.70682	0.30576	-95.25954	-4.41588	-190.18122	-0.91
Asta 68 (42-237)	98	massimi	0.00	2.24608	-0.11257	166.07594	11.32767	131.12322	-0.716
Asta 68 (42-237)	98	massimi	315.00	2.24608	-0.11257	58.52864	11.32767	159.97987	-0.362
Asta 68 (42-237)	98	massimi	630.00	2.24608	-0.11257	-49.01866	11.32767	-5.86148	-0.007
Asta 68 (42-237)	98	minimi	0.00	2.24608	-0.11257	61.92569	-11.50429	-376.07707	-0.716
Asta 68 (42-237)	98	minimi	315.00	2.24608	-0.11257	-45.62161	-11.50429	-25.5026	-0.362
Asta 68 (42-237)	98	minimi	630.00	2.24608	-0.11257	-153.16891	-11.50429	-157.77812	-0.007
Asta 69 (52-47)	99	massimi	0.00	0.20892	-1.8055	142.92433	16.65391	82.92685	-5.908
Asta 69 (52-47)	99	massimi	307.50	0.20892	-1.8055	37.93768	16.65391	115.45961	-0.356
Asta 69 (52-47)	99	massimi	615.00	0.20892	-1.8055	-67.04897	16.65391	70.6997	5.196
Asta 69 (52-47)	99	minimi	0.00	0.20892	-1.8055	34.16417	-15.92622	-162.61797	-5.908
Asta 69 (52-47)	99	minimi	307.50	0.20892	-1.8055	-70.82248	-15.92622	26.56246	-0.356
Asta 69 (52-47)	99	minimi	615.00	0.20892	-1.8055	-175.80913	-15.92622	-352.63233	5.196
Asta 70 (47-77)	100	massimi	0.00	-6.40348	1.28492	81.22663	4.87574	121.76022	3.197
Asta 70 (47-77)	100	massimi	237.00	-6.40348	1.28492	58.97623	4.87574	10.41729	0.152
Asta 70 (47-77)	100	massimi	474.00	-6.40348	1.28492	36.72583	4.87574	123.0994	-2.893
Asta 70 (47-77)	100	minimi	0.00	-6.40348	1.28492	-35.9911	-3.60763	-156.44846	3.197
Asta 70 (47-77)	100	minimi	237.00	-6.40348	1.28492	-58.2415	-3.60763	9.36922	0.152
Asta 70 (47-77)	100	minimi	474.00	-6.40348	1.28492	-80.4919	-3.60763	-154.30503	-2.893
Asta 71 (237-47)	101	massimi	0.00	4.50446	-0.02592	147.16399	14.84396	8.12436	-0.122
Asta 71 (237-47)	101	massimi	315.00	4.50446	-0.02592	39.61669	14.84396	131.54758	-0.04
Asta 71 (237-47)	101	massimi	630.00	4.50446	-0.02592	-67.93061	14.84396	86.58219	0.041
Asta 71 (237-47)	101	minimi	0.00	4.50446	-0.02592	41.64901	-15.15926	-163.68875	-0.122
Asta 71 (237-47)	101	minimi	315.00	4.50446	-0.02592	-65.89829	-15.15926	-31.12504	-0.04
Asta 71 (237-47)	101	minimi	630.00	4.50446	-0.02592	-173.44559	-15.15926	-407.7207	0.041
Asta 72 (67-52)	102	massimi	0.00	-15.15476	1.77396	33.82845	6.71933	69.93762	0.189
Asta 72 (67-52)	102	massimi	116.50	-15.15476	1.77396	22.65512	6.71933	91.7279	-1.877
Asta 72 (67-52)	102	massimi	233.00	-15.15476	1.77396	11.48179	6.71933	110.06021	-3.944
Asta 72 (67-52)	102	minimi	0.00	-15.15476	1.77396	-57.39965	-3.84828	40.48101	0.189
Asta 72 (67-52)	102	minimi	116.50	-15.15476	1.77396	-68.57298	-3.84828	-21.78665	-1.877
Asta 72 (67-52)	102	minimi	233.00	-15.15476	1.77396	-79.74631	-3.84828	-106.63019	-3.944
Asta 73	103	massimi	0.00	-15.15476	1.77396	56.63715	6.71933	165.60061	4.464

(82-67)									
Asta 73 (82-67)	103	massimi	120.50	-15.15476	1.77396	45.07205	6.71933	121.15098	2.327
Asta 73 (82-67)	103	massimi	241.00	-15.15476	1.77396	33.50695	6.71933	69.93762	0.189
Asta 73 (82-67)	103	minimi	0.00	-15.15476	1.77396	-33.94795	-3.84828	-54.11917	4.464
Asta 73 (82-67)	103	minimi	120.50	-15.15476	1.77396	-45.51305	-3.84828	3.735	2.327
Asta 73 (82-67)	103	minimi	241.00	-15.15476	1.77396	-57.07815	-3.84828	40.48101	0.189
Asta 74 (102-72)	104	massimi	0.00	-3.96464	0.9582	101.61564	3.77299	163.09691	3.082
Asta 74 (102-72)	104	massimi	237.00	-3.96464	0.9582	79.36525	3.77299	17.4435	0.811
Asta 74 (102-72)	104	massimi	474.00	-3.96464	0.9582	57.11485	3.77299	162.70471	-1.46
Asta 74 (102-72)	104	minimi	0.00	-3.96464	0.9582	-50.34406	-4.90402	-213.48919	3.082
Asta 74 (102-72)	104	minimi	237.00	-3.96464	0.9582	-72.59446	-4.90402	0.94443	0.811
Asta 74 (102-72)	104	minimi	474.00	-3.96464	0.9582	-94.84486	-4.90402	-181.00345	-1.46
Asta 75 (72-242)	105	massimi	0.00	-1.21731	-0.32634	164.74896	11.29371	112.01834	-1.688
Asta 75 (72-242)	105	massimi	315.00	-1.21731	-0.32634	57.20166	11.29371	154.65032	-0.66
Asta 75 (72-242)	105	massimi	630.00	-1.21731	-0.32634	-50.34563	11.29371	-13.5954	0.368
Asta 75 (72-242)	105	minimi	0.00	-1.21731	-0.32634	67.28248	-11.45949	-374.18591	-1.688
Asta 75 (72-242)	105	minimi	315.00	-1.21731	-0.32634	-40.26482	-11.45949	-24.69282	-0.66
Asta 75 (72-242)	105	minimi	630.00	-1.21731	-0.32634	-147.81212	-11.45949	-141.87003	0.368
Asta 76 (82-77)	106	massimi	0.00	-6.82105	-1.83339	147.73008	12.8973	95.71402	-5.667
Asta 76 (82-77)	106	massimi	307.50	-6.82105	-1.83339	42.74344	12.8973	114.81485	-0.03
Asta 76 (82-77)	106	massimi	615.00	-6.82105	-1.83339	-62.24321	12.8973	84.57038	5.608
Asta 76 (82-77)	106	minimi	0.00	-6.82105	-1.83339	29.85654	-19.51762	-178.31155	-5.667
Asta 76 (82-77)	106	minimi	307.50	-6.82105	-1.83339	-75.13011	-19.51762	25.83254	-0.03
Asta 76 (82-77)	106	minimi	615.00	-6.82105	-1.83339	-180.11676	-19.51762	-366.34596	5.608
Asta 77 (77-107)	107	massimi	0.00	-6.48809	0.76391	79.61304	6.04914	135.35408	2.092
Asta 77 (77-107)	107	massimi	237.00	-6.48809	0.76391	57.36264	6.04914	16.02408	0.282
Asta 77 (77-107)	107	massimi	474.00	-6.48809	0.76391	35.11224	6.04914	125.51558	-1.529
Asta 77 (77-107)	107	minimi	0.00	-6.48809	0.76391	-44.21796	-3.23815	-146.38478	2.092
Asta 77 (77-107)	107	minimi	237.00	-6.48809	0.76391	-66.46836	-3.23815	4.09813	0.282
Asta 77 (77-107)	107	minimi	474.00	-6.48809	0.76391	-88.71875	-3.23815	-179.70737	-1.529
Asta 78 (242-77)	108	massimi	0.00	-1.73217	-0.01131	143.91572	14.41745	-1.20084	0.185
Asta 78 (242-77)	108	massimi	315.00	-1.73217	-0.01131	36.36842	14.41745	133.55381	0.22
Asta 78 (242-77)	108	massimi	630.00	-1.73217	-0.01131	-71.17888	14.41745	74.72767	0.256
Asta 78 (242-77)	108	minimi	0.00	-1.73217	-0.01131	47.13034	-15.73083	-154.71924	0.185
Asta 78 (242-77)	108	minimi	315.00	-1.73217	-0.01131	-60.41696	-15.73083	-26.45283	0.22
Asta 78 (242-77)	108	minimi	630.00	-1.73217	-0.01131	-167.96426	-15.73083	-382.1536	0.256

(242-77)									
Asta 79 (97-82)	109	massimi	0.00	-13.86187	-0.46357	62.48529	11.85703	166.94324	-1.377
Asta 79 (97-82)	109	massimi	45.50	-13.86187	-0.46357	58.26599	11.85703	194.20422	-1.166
Asta 79 (97-82)	109	massimi	91.00	-13.86187	-0.46357	54.04669	11.85703	219.62936	-0.955
Asta 79 (97-82)	109	minimi	0.00	-13.86187	-0.46357	-78.62103	-0.20045	-19.14268	-1.377
Asta 79 (97-82)	109	minimi	45.50	-13.86187	-0.46357	-82.84033	-0.20045	-55.66521	-1.166
Asta 79 (97-82)	109	minimi	91.00	-13.86187	-0.46357	-87.05964	-0.20045	-94.19146	-0.955
Asta 80 (112-97)	110	massimi	0.00	-13.86187	-0.46357	99.62321	11.85703	213.44106	-3.153
Asta 80 (112-97)	110	massimi	191.50	-13.86187	-0.46357	81.10408	11.85703	119.87854	-2.265
Asta 80 (112-97)	110	massimi	383.00	-13.86187	-0.46357	62.58496	11.85703	166.94324	-1.377
Asta 80 (112-97)	110	minimi	0.00	-13.86187	-0.46357	-41.68244	-0.20045	-145.69713	-3.153
Asta 80 (112-97)	110	minimi	191.50	-13.86187	-0.46357	-60.20157	-0.20045	23.35783	-2.265
Asta 80 (112-97)	110	minimi	383.00	-13.86187	-0.46357	-78.7207	-0.20045	-19.14268	-1.377
Asta 81 (102-117)	111	massimi	0.00	-22.67697	-2.54273	216.15531	44.65959	121.61068	-3.538
Asta 81 (102-117)	111	massimi	173.00	-22.67697	-2.54273	173.18508	44.65959	123.83275	0.861
Asta 81 (102-117)	111	massimi	346.00	-22.67697	-2.54273	130.21486	44.65959	141.98057	5.26
Asta 81 (102-117)	111	minimi	0.00	-22.67697	-2.54273	21.11257	-28.00125	-488.54573	-3.538
Asta 81 (102-117)	111	minimi	173.00	-22.67697	-2.54273	-21.85766	-28.00125	-154.63287	0.861
Asta 81 (102-117)	111	minimi	346.00	-22.67697	-2.54273	-64.82788	-28.00125	14.67727	5.26
Asta 82 (112-107)	112	massimi	0.00	-10.60551	-3.31068	154.01525	11.08333	115.17282	-11.072
Asta 82 (112-107)	112	massimi	307.50	-10.60551	-3.31068	63.3458	11.08333	124.12369	-0.892
Asta 82 (112-107)	112	massimi	615.00	-10.60551	-3.31068	-27.32365	11.08333	179.49331	9.289
Asta 82 (112-107)	112	minimi	0.00	-10.60551	-3.31068	10.49025	-28.60293	-210.09431	-11.072
Asta 82 (112-107)	112	minimi	307.50	-10.60551	-3.31068	-80.1792	-28.60293	8.00067	-0.892
Asta 82 (112-107)	112	minimi	615.00	-10.60551	-3.31068	-170.84865	-28.60293	-377.94021	9.289
Asta 83 (122-107)	113	massimi	0.00	-19.14659	3.25743	77.28468	21.50904	81.04609	0.695
Asta 83 (122-107)	113	massimi	127.00	-19.14659	3.25743	33.80641	21.50904	68.18095	-3.442
Asta 83 (122-107)	113	massimi	254.00	-19.14659	3.25743	-9.67187	21.50904	54.47957	-7.579
Asta 83	113	minimi	0.00	-19.14659	3.25743	-91.81547	-32.25577	-108.48725	0.695

(122-107)									
Asta 83 (122-107)	113	minimi	127.00	-19.14659	3.25743	-135.29375	-32.25577	-169.29363	-3.442
Asta 83 (122-107)	113	minimi	254.00	-19.14659	3.25743	-178.77202	-32.25577	-339.69857	-7.579
Asta 84 (142-112)	114	massimi	0.00	-20.36716	7.66534	147.54061	22.60372	62.0097	11.127
Asta 84 (142-112)	114	massimi	165.00	-20.36716	7.66534	134.1874	22.60372	51.52393	-1.521
Asta 84 (142-112)	114	massimi	330.00	-20.36716	7.66534	120.83419	22.60372	188.11852	-14.168
Asta 84 (142-112)	114	minimi	0.00	-20.36716	7.66534	-0.30661	-8.61567	-259.23326	11.127
Asta 84 (142-112)	114	minimi	165.00	-20.36716	7.66534	-13.65982	-8.61567	-27.84419	-1.521
Asta 84 (142-112)	114	minimi	330.00	-20.36716	7.66534	-27.01303	-8.61567	12.39893	-14.168
Asta 85 (117-122)	115	massimi	0.00	-37.75519	-2.05592	129.77788	0.53213	175.3692	-5.154
Asta 85 (117-122)	115	massimi	330.00	-37.75519	-2.05592	45.89957	0.53213	132.16874	1.63
Asta 85 (117-122)	115	massimi	660.00	-37.75519	-2.05592	-37.97874	0.53213	134.47371	8.415
Asta 85 (117-122)	115	minimi	0.00	-37.75519	-2.05592	12.47931	-7.7959	-171.48251	-5.154
Asta 85 (117-122)	115	minimi	330.00	-37.75519	-2.05592	-71.399	-7.7959	64.36824	1.63
Asta 85 (117-122)	115	minimi	660.00	-37.75519	-2.05592	-155.27731	-7.7959	-298.88328	8.415
Asta 86 (117-127)	116	massimi	0.00	1.22422	2.79237	161.84927	24.18726	154.78319	10.602
Asta 86 (117-127)	116	massimi	330.00	1.22422	2.79237	61.90603	24.18726	134.327	1.387
Asta 86 (117-127)	116	massimi	660.00	1.22422	2.79237	-38.03721	24.18726	150.39723	-7.828
Asta 86 (117-127)	116	minimi	0.00	1.22422	2.79237	43.7421	4.49138	-258.19405	10.602
Asta 86 (117-127)	116	minimi	330.00	1.22422	2.79237	-56.20114	4.49138	110.90095	1.387
Asta 86 (117-127)	116	minimi	660.00	1.22422	2.79237	-156.14438	4.49138	-216.15585	-7.828
Asta 87 (122-137)	117	massimi	0.00	-8.15789	5.1691	136.27826	2.33346	144.67352	8.179
Asta 87 (122-137)	117	massimi	165.00	-8.15789	5.1691	93.70826	2.33346	54.5315	-0.35
Asta 87 (122-137)	117	massimi	330.00	-8.15789	5.1691	51.13826	2.33346	127.8244	-8.879

Asta 87 (122-137)	117	minimi	0.00	-8.15789	5.1691	-33.87718	-16.86107	-182.02792	8.179
Asta 87 (122-137)	117	minimi	165.00	-8.15789	5.1691	-76.44718	-16.86107	6.83539	-0.35
Asta 87 (122-137)	117	minimi	330.00	-8.15789	5.1691	-119.01718	-16.86107	-108.21722	-8.879
Asta 88 (127-132)	118	massimi	0.00	-8.95752	-1.80899	80.82821	9.35131	141.18053	-7.617
Asta 88 (127-132)	118	massimi	330.00	-8.95752	-1.80899	48.10596	9.35131	108.7938	-1.647
Asta 88 (127-132)	118	massimi	660.00	-8.95752	-1.80899	15.38371	9.35131	153.35008	4.322
Asta 88 (127-132)	118	minimi	0.00	-8.95752	-1.80899	4.04282	-11.87707	-170.04023	-7.617
Asta 88 (127-132)	118	minimi	330.00	-8.95752	-1.80899	-28.67943	-11.87707	34.43746	-1.647
Asta 88 (127-132)	118	minimi	660.00	-8.95752	-1.80899	-61.40168	-11.87707	-53.99471	4.322
Asta 89 (137-132)	119	massimi	0.00	-4.44201	2.83694	103.09691	22.2623	93.02088	1.38
Asta 89 (137-132)	119	massimi	165.00	-4.44201	2.83694	55.85465	22.2623	64.26026	-3.301
Asta 89 (137-132)	119	massimi	330.00	-4.44201	2.83694	8.6124	22.2623	116.95675	-7.982
Asta 89 (137-132)	119	minimi	0.00	-4.44201	2.83694	-31.85809	-4.36321	-67.7136	1.38
Asta 89 (137-132)	119	minimi	165.00	-4.44201	2.83694	-79.10035	-4.36321	0.64135	-3.301
Asta 89 (137-132)	119	minimi	330.00	-4.44201	2.83694	-126.3426	-4.36321	-168.36026	-7.982
Asta 90 (132-157)	120	massimi	0.00	-5.5447	-1.51066	46.27363	17.88524	215.43315	-3.993
Asta 90 (132-157)	120	massimi	244.50	-5.5447	-1.51066	29.32978	17.88524	34.31958	-0.299
Asta 90 (132-157)	120	massimi	489.00	-5.5447	-1.51066	12.38593	17.88524	83.10533	3.395
Asta 90 (132-157)	120	minimi	0.00	-5.5447	-1.51066	-79.38516	-19.68589	-60.42852	-3.993
Asta 90 (132-157)	120	minimi	244.50	-5.5447	-1.51066	-96.32901	-19.68589	-1.70036	-0.299
Asta 90 (132-157)	120	minimi	489.00	-5.5447	-1.51066	-113.27286	-19.68589	-255.72692	3.395
Asta 91 (137-152)	121	massimi	0.00	-2.1444	-2.6649	88.30958	18.81889	99.72694	-9.851
Asta 91 (137-152)	121	massimi	244.50	-2.1444	-2.6649	44.14818	18.81889	45.59307	-3.336
Asta 91 (137-152)	121	massimi	489.00	-2.1444	-2.6649	-0.01322	18.81889	77.84584	3.18

152)									
Asta 91 (137-152)	121	minimi	0.00	-2.1444	-2.6649	-0.06414	-24.50966	-138.04104	-9.851
Asta 91 (137-152)	121	minimi	244.50	-2.1444	-2.6649	-44.22554	-24.50966	23.8783	-3.336
Asta 91 (137-152)	121	minimi	489.00	-2.1444	-2.6649	-88.38694	-24.50966	-116.53824	3.18
Asta 92 (142-147)	122	massimi	0.00	-2.68397	-1.22384	84.88237	7.10795	89.756	-4.964
Asta 92 (142-147)	122	massimi	165.00	-2.68397	-1.22384	73.44787	7.10795	10.40099	-2.945
Asta 92 (142-147)	122	massimi	330.00	-2.68397	-1.22384	62.01337	7.10795	120.49306	-0.926
Asta 92 (142-147)	122	minimi	0.00	-2.68397	-1.22384	-72.24673	-13.27081	-122.37462	-4.964
Asta 92 (142-147)	122	minimi	165.00	-2.68397	-1.22384	-83.68123	-13.27081	-41.03772	-2.945
Asta 92 (142-147)	122	minimi	330.00	-2.68397	-1.22384	-95.11573	-13.27081	-186.88175	-0.926
Asta 93 (152-142)	123	massimi	0.00	4.50416	-0.91587	65.1969	21.68307	73.06232	2.989
Asta 93 (152-142)	123	massimi	190.00	4.50416	-0.91587	30.99265	21.68307	38.45059	4.729
Asta 93 (152-142)	123	massimi	380.00	4.50416	-0.91587	-3.2116	21.68307	64.8247	6.469
Asta 93 (152-142)	123	minimi	0.00	4.50416	-0.91587	-24.84731	-41.846	-52.96076	2.989
Asta 93 (152-142)	123	minimi	190.00	4.50416	-0.91587	-59.05156	-41.846	-6.67288	4.729
Asta 93 (152-142)	123	minimi	380.00	4.50416	-0.91587	-93.25581	-41.846	-151.34699	6.469
Asta 94 (157-147)	124	massimi	0.00	1.08676	0.77551	67.74575	28.98632	38.57522	3.705
Asta 94 (157-147)	124	massimi	190.00	1.08676	0.77551	54.57875	28.98632	50.5882	2.232
Asta 94 (157-147)	124	massimi	380.00	1.08676	0.77551	41.41175	28.98632	114.77518	0.758
Asta 94 (157-147)	124	minimi	0.00	1.08676	0.77551	-10.921	-46.51666	-163.34497	3.705
Asta 94 (157-147)	124	minimi	190.00	1.08676	0.77551	-24.088	-46.51666	-92.40823	2.232
Asta 94 (157-147)	124	minimi	380.00	1.08676	0.77551	-37.255	-46.51666	-123.68009	0.758
Asta 95 (2-1)	125	massimi	0.00	-154.01309	159.10513	104.99718	9.49233	101.19114	200.124
Asta 95 (2-1)	125	massimi	130.00	-159.86309	159.10513	104.99718	9.49233	16.06918	45.701
Asta 95 (2-1)	125	massimi	260.00	-165.71309	159.10513	104.99718	9.49233	143.39968	179.903
Asta 95	125	minimi	0.00	-545.67954	-120.04548	-84.53208	-8.96391	-130.0835	-133.658

(2-1)									
Asta 95 (2-1)	125	minimi	130.00	-551.52953	-120.04548	-84.53208	-8.96391	-18.35692	-30.013
Asta 95 (2-1)	125	minimi	260.00	-557.37953	-120.04548	-84.53208	-8.96391	-119.08279	-214.992
Asta 96 (7-6)	126	massimi	0.00	-161.88639	117.95816	99.47983	11.19228	78.87851	133.718
Asta 96 (7-6)	126	massimi	130.00	-167.73639	117.95816	99.47983	11.19228	12.29617	32.123
Asta 96 (7-6)	126	massimi	260.00	-173.58639	117.95816	99.47983	11.19228	132.29018	219.363
Asta 96 (7-6)	126	minimi	0.00	-579.40067	-161.17216	-65.29367	-8.83614	-126.8781	-201.058
Asta 96 (7-6)	126	minimi	130.00	-585.25067	-161.17216	-65.29367	-8.83614	-15.85376	-43.284
Asta 96 (7-6)	126	minimi	260.00	-591.10067	-161.17216	-65.29367	-8.83614	-91.40576	-174.346
Asta 97 (12-11)	127	massimi	0.00	-306.77629	135.24461	150.51021	10.05463	184.67448	181.83
Asta 97 (12-11)	127	massimi	130.00	-312.62629	135.24461	150.51021	10.05463	6.57606	55.375
Asta 97 (12-11)	127	massimi	260.00	-318.47629	135.24461	150.51021	10.05463	194.46907	133.806
Asta 97 (12-11)	127	minimi	0.00	-595.05508	-76.48933	-142.03783	-8.40519	-196.9575	-66.876
Asta 97 (12-11)	127	minimi	130.00	-600.90508	-76.48933	-142.03783	-8.40519	-7.84498	-16.803
Asta 97 (12-11)	127	minimi	260.00	-606.75508	-76.48933	-142.03783	-8.40519	-184.7239	-171.616
Asta 98 (17-16)	128	massimi	0.00	-552.79419	183.33503	139.84933	11.33476	145.36807	280.848
Asta 98 (17-16)	128	massimi	130.00	-558.64419	183.33503	139.84933	11.33476	4.52149	43.034
Asta 98 (17-16)	128	massimi	260.00	-564.49419	183.33503	139.84933	11.33476	176.70923	238.128
Asta 98 (17-16)	128	minimi	0.00	-606.15609	-214.2321	-110.84715	-7.8384	-186.99249	-319.044
Asta 98 (17-16)	128	minimi	130.00	-612.00609	-214.2321	-110.84715	-7.8384	-8.44308	-41.064
Asta 98 (17-16)	128	minimi	260.00	-617.85609	-214.2321	-110.84715	-7.8384	-142.92798	-195.992
Asta 99 (22-21)	129	massimi	0.00	-45.58543	56.51335	85.35081	3.21196	71.30985	96.151
Asta 99 (22-21)	129	massimi	130.00	-48.51043	56.51335	85.35081	3.21196	13.18454	22.685
Asta 99 (22-21)	129	massimi	260.00	-51.43543	56.51335	85.35081	3.21196	87.92185	71.808
Asta 99 (22-21)	129	minimi	0.00	-315.14002	-76.70846	-44.71408	-2.22432	-133.9919	-127.636
Asta 99 (22-21)	129	minimi	130.00	-318.06502	-76.70846	-44.71408	-2.22432	-23.03884	-27.916
Asta 99 (22-21)	129	minimi	260.00	-320.99002	-76.70846	-44.71408	-2.22432	-44.9484	-50.785
Asta 100 (27-26)	130	massimi	0.00	-345.15182	111.38488	149.40628	9.54329	195.28902	153.516
Asta 100 (27-26)	130	massimi	130.00	-351.00182	111.38488	149.40628	9.54329	7.28488	47.201
Asta 100 (27-26)	130	massimi	260.00	-356.85182	111.38488	149.40628	9.54329	193.91061	110.57
Asta 100 (27-26)	130	minimi	0.00	-578.7889	-58.80265	-150.08791	-8.53654	-194.64595	-44.497
Asta 100 (27-26)	130	minimi	130.00	-584.6389	-58.80265	-150.08791	-8.53654	-7.52792	-6.54
Asta 100 (27-26)	130	minimi	260.00	-590.4889	-58.80265	-150.08791	-8.53654	-195.03977	-138.265
Asta 101 (32-31)	131	massimi	0.00	-619.80812	135.01194	132.43198	10.41174	159.4444	199.019
Asta 101 (32-31)	131	massimi	130.00	-625.65812	135.01194	132.43198	10.41174	5.30489	26.103
Asta 101	131	massimi	260.00	-631.50812	135.01194	132.43198	10.41174	169.24048	190.665

(32-31)									
Asta 101 (32-31)	131	minimi	0.00	-686.54031	-147.03757	-121.43679	-8.15108	-175.17481	-192.055
Asta 101 (32-31)	131	minimi	130.00	-692.39031	-147.03757	-121.43679	-8.15108	-6.74154	-3.506
Asta 101 (32-31)	131	minimi	260.00	-698.24031	-147.03757	-121.43679	-8.15108	-156.38339	-152.434
Asta 102 (37-36)	132	massimi	0.00	-122.64566	36.67387	117.01792	3.17114	111.72775	59.781
Asta 102 (37-36)	132	massimi	130.00	-125.57066	36.67387	117.01792	3.17114	12.16916	12.106
Asta 102 (37-36)	132	massimi	260.00	-128.49566	36.67387	117.01792	3.17114	133.77935	58.635
Asta 102 (37-36)	132	minimi	0.00	-342.64313	-62.05396	-76.58374	-2.59193	-170.46732	-102.705
Asta 102 (37-36)	132	minimi	130.00	-345.56813	-62.05396	-76.58374	-2.59193	-18.34429	-22.036
Asta 102 (37-36)	132	minimi	260.00	-348.49313	-62.05396	-76.58374	-2.59193	-87.39004	-35.571
Asta 103 (42-41)	133	massimi	0.00	-332.53265	111.1134	149.52101	8.6715	196.22168	157.934
Asta 103 (42-41)	133	massimi	130.00	-338.38265	111.1134	149.52101	8.6715	7.24339	46.119
Asta 103 (42-41)	133	massimi	260.00	-344.23265	111.1134	149.52101	8.6715	193.93594	104.59
Asta 103 (42-41)	133	minimi	0.00	-590.93014	-57.32226	-150.7488	-9.57599	-194.91921	-45.737
Asta 103 (42-41)	133	minimi	130.00	-596.78014	-57.32226	-150.7488	-9.57599	-7.53705	-3.85
Asta 103 (42-41)	133	minimi	260.00	-602.63014	-57.32226	-150.7488	-9.57599	-195.82573	-132.25
Asta 104 (47-46)	134	massimi	0.00	-644.51686	129.42183	130.09354	9.99933	165.86658	193.605
Asta 104 (47-46)	134	massimi	130.00	-650.36686	129.42183	130.09354	9.99933	5.70507	26.324
Asta 104 (47-46)	134	massimi	260.00	-656.21686	129.42183	130.09354	9.99933	166.2336	171.233
Asta 104 (47-46)	134	minimi	0.00	-683.31191	-129.86989	-125.90811	-8.79906	-172.10202	-166.582
Asta 104 (47-46)	134	minimi	130.00	-689.16191	-129.86989	-125.90811	-8.79906	-6.49945	1.281
Asta 104 (47-46)	134	minimi	260.00	-695.01191	-129.86989	-125.90811	-8.79906	-161.58692	-143.045
Asta 105 (52-51)	135	massimi	0.00	-169.29211	36.7994	110.34597	2.67043	132.91681	58.913
Asta 105 (52-51)	135	massimi	130.00	-172.21711	36.7994	110.34597	2.67043	13.5218	11.099
Asta 105 (52-51)	135	massimi	260.00	-175.14211	36.7994	110.34597	2.67043	124.83453	71.589
Asta 105 (52-51)	135	minimi	0.00	-362.76164	-66.3519	-91.84672	-2.96369	-162.06654	-100.93
Asta 105 (52-51)	135	minimi	130.00	-365.68664	-66.3519	-91.84672	-2.96369	-18.6225	-14.698
Asta 105 (52-51)	135	minimi	260.00	-368.61164	-66.3519	-91.84672	-2.96369	-105.88621	-36.769
Asta 106 (57-56)	136	massimi	0.00	-55.29636	10.61897	27.66478	1.44201	17.53195	3.589
Asta 106 (57-56)	136	massimi	130.00	-57.32761	10.61897	27.66478	1.44201	17.33587	25.471
Asta 106 (57-56)	136	massimi	260.00	-59.35886	10.61897	27.66478	1.44201	52.56246	58.775
Asta 106 (57-56)	136	minimi	0.00	-79.49146	-25.6876	-27.52163	-1.87451	-19.99469	-8.348
Asta 106 (57-56)	136	minimi	130.00	-81.52271	-25.6876	-27.52163	-1.87451	-19.61252	-10.641
Asta 106 (57-56)	136	minimi	260.00	-83.55396	-25.6876	-27.52163	-1.87451	-54.65302	-24.356
Asta 107 (62-61)	137	massimi	0.00	-15.23705	13.58361	28.83928	1.60039	18.87333	4.044
Asta 107	137	massimi	130.00	-17.2683	13.58361	28.83928	1.60039	20.12377	15.489

(62-61)									
Asta 107 (62-61)	137	massimi	260.00	-19.29955	13.58361	28.83928	1.60039	56.32833	42.873
Asta 107 (62-61)	137	minimi	0.00	-40.79837	-21.09378	-28.2895	-1.73558	-20.53463	-12.107
Asta 107 (62-61)	137	minimi	130.00	-42.82962	-21.09378	-28.2895	-1.73558	-21.07035	-13.788
Asta 107 (62-61)	137	minimi	260.00	-44.86087	-21.09378	-28.2895	-1.73558	-56.56019	-31.409
Asta 108 (72-71)	138	massimi	0.00	-328.74059	111.28122	147.16358	7.9724	199.21469	155.867
Asta 108 (72-71)	138	massimi	130.00	-334.59059	111.28122	147.16358	7.9724	7.38729	41.825
Asta 108 (72-71)	138	massimi	260.00	-340.44059	111.28122	147.16358	7.9724	190.85536	95.444
Asta 108 (72-71)	138	minimi	0.00	-583.24484	-47.43895	-152.52864	-9.70521	-191.87053	-28.265
Asta 108 (72-71)	138	minimi	130.00	-589.09484	-47.43895	-152.52864	-9.70521	-7.01771	2.783
Asta 108 (72-71)	138	minimi	260.00	-594.94484	-47.43895	-152.52864	-9.70521	-197.46035	-133.831
Asta 109 (77-76)	139	massimi	0.00	-598.02405	140.88709	125.66976	9.66255	174.60464	211.896
Asta 109 (77-76)	139	massimi	130.00	-603.87405	140.88709	125.66976	9.66255	6.49141	29.831
Asta 109 (77-76)	139	massimi	260.00	-609.72405	140.88709	125.66976	9.66255	160.95331	169.885
Asta 109 (77-76)	139	minimi	0.00	-698.44554	-134.51735	-131.76007	-9.37999	-165.89558	-180.096
Asta 109 (77-76)	139	minimi	130.00	-704.29554	-134.51735	-131.76007	-9.37999	-5.69976	-6.311
Asta 109 (77-76)	139	minimi	260.00	-710.14554	-134.51735	-131.76007	-9.37999	-168.07906	-154.646
Asta 110 (82-81)	140	massimi	0.00	-158.34513	41.67856	98.79045	3.15464	152.20554	65.29
Asta 110 (82-81)	140	massimi	130.00	-161.27013	41.67856	98.79045	3.15464	17.36969	11.416
Asta 110 (82-81)	140	massimi	260.00	-164.19513	41.67856	98.79045	3.15464	112.82579	103.82
Asta 110 (82-81)	140	minimi	0.00	-369.82195	-85.64036	-103.72195	-3.23677	-144.03016	-118.858
Asta 110 (82-81)	140	minimi	130.00	-372.74695	-85.64036	-103.72195	-3.23677	-15.60525	-7.835
Asta 110 (82-81)	140	minimi	260.00	-375.67195	-85.64036	-103.72195	-3.23677	-117.4723	-43.087
Asta 111 (87-86)	141	massimi	0.00	-50.78157	10.06969	28.51332	1.45675	20.07973	2.92
Asta 111 (87-86)	141	massimi	130.00	-52.81282	10.06969	28.51332	1.45675	20.67921	25.039
Asta 111 (87-86)	141	massimi	260.00	-54.84407	10.06969	28.51332	1.45675	57.1527	56.358
Asta 111 (87-86)	141	minimi	0.00	-79.94504	-24.23246	-26.42486	-1.83173	-17.59294	-6.912
Asta 111 (87-86)	141	minimi	130.00	-81.97629	-24.23246	-26.42486	-1.83173	-15.47741	-10.619
Asta 111 (87-86)	141	minimi	260.00	-84.00754	-24.23246	-26.42486	-1.83173	-49.2359	-23.527
Asta 112 (92-91)	142	massimi	0.00	-9.54091	12.58134	28.53395	1.58592	20.49344	3.187
Asta 112 (92-91)	142	massimi	130.00	-11.57216	12.58134	28.53395	1.58592	21.24792	15.093
Asta 112 (92-91)	142	massimi	260.00	-13.60341	12.58134	28.53395	1.58592	56.53733	41.209
Asta 112 (92-91)	142	minimi	0.00	-44.09014	-20.11263	-28.25374	-1.71689	-18.72257	-11.209
Asta 112 (92-91)	142	minimi	130.00	-46.12139	-20.11263	-28.25374	-1.71689	-19.11278	-13.324
Asta 112 (92-91)	142	minimi	260.00	-48.15264	-20.11263	-28.25374	-1.71689	-54.03792	-29.649
Asta 113	143	massimi	0.00	-215.77795	151.71469	97.22163	11.74092	141.06225	223.813

(102-101)									
Asta 113 (102-101)	143	massimi	130.00	-221.62795	151.71469	97.22163	11.74092	12.75461	51.746
Asta 113 (102-101)	143	massimi	260.00	-227.47795	151.71469	97.22163	11.74092	128.79892	87.578
Asta 113 (102-101)	143	minimi	0.00	-586.23985	-37.05981	-110.86796	-9.08336	-124.33779	-9.215
Asta 113 (102-101)	143	minimi	130.00	-592.08985	-37.05981	-110.86796	-9.08336	-13.77038	13.80
Asta 113 (102-101)	143	minimi	260.00	-597.93985	-37.05981	-110.86796	-9.08336	-147.5549	-171.083
Asta 114 (107-106)	144	massimi	0.00	-464.29701	117.98924	84.11126	8.30369	137.2077	167.857
Asta 114 (107-106)	144	massimi	130.00	-470.147	117.98924	84.11126	8.30369	9.97936	17.045
Asta 114 (107-106)	144	massimi	260.00	-475.997	117.98924	84.11126	8.30369	109.29584	177.433
Asta 114 (107-106)	144	minimi	0.00	-629.88292	-144.08571	-103.78227	-9.78969	-109.63925	-197.474
Asta 114 (107-106)	144	minimi	130.00	-635.73292	-144.08571	-103.78227	-9.78969	-7.98322	-12.737
Asta 114 (107-106)	144	minimi	260.00	-641.58292	-144.08571	-103.78227	-9.78969	-132.87201	-139.199
Asta 115 (112-111)	145	massimi	0.00	-87.91134	41.29909	77.84984	1.93073	178.0805	66.244
Asta 115 (112-111)	145	massimi	130.00	-90.83635	41.29909	77.84984	1.93073	19.99142	12.562
Asta 115 (112-111)	145	massimi	260.00	-93.76135	41.29909	77.84984	1.93073	90.75136	78.323
Asta 115 (112-111)	145	minimi	0.00	-212.68435	-76.31849	-121.63032	-3.7814	-111.66053	-120.108
Asta 115 (112-111)	145	minimi	130.00	-215.60935	-76.31849	-121.63032	-3.7814	-10.48608	-20.90
Asta 115 (112-111)	145	minimi	260.00	-218.53435	-76.31849	-121.63032	-3.7814	-138.16063	-41.137
Asta 116 (117-116)	146	massimi	0.00	-187.6494	113.36835	81.43497	3.69377	89.54324	165.238
Asta 116 (117-116)	146	massimi	130.00	-190.5744	113.36835	81.43497	3.69377	16.02461	17.86
Asta 116 (117-116)	146	massimi	260.00	-193.4994	113.36835	81.43497	3.69377	80.87053	59.495
Asta 116 (117-116)	146	minimi	0.00	-259.00481	-53.27249	-56.56062	-3.75101	-130.86648	-79.014
Asta 116 (117-116)	146	minimi	130.00	-261.92981	-53.27249	-56.56062	-3.75101	-25.01119	-9.761
Asta 116 (117-116)	146	minimi	260.00	-264.85481	-53.27249	-56.56062	-3.75101	-57.52045	-129.52

Asta 117 (122-121)	147	massimi	0.00	-155.24974	38.45127	70.9088	1.38427	84.38979	54.724
Asta 117 (122-121)	147	massimi	130.00	-158.17474	38.45127	70.9088	1.38427	10.56901	4.896
Asta 117 (122-121)	147	massimi	260.00	-161.09974	38.45127	70.9088	1.38427	78.5384	110.23
Asta 117 (122-121)	147	minimi	0.00	-250.1314	-93.4963	-56.79477	-4.32144	-105.82876	-132.861
Asta 117 (122-121)	147	minimi	130.00	-253.0564	-93.4963	-56.79477	-4.32144	-13.65974	-11.474
Asta 117 (122-121)	147	minimi	260.00	-255.9814	-93.4963	-56.79477	-4.32144	-63.28089	-45.25
Asta 118 (127-126)	148	massimi	0.00	-128.59039	77.02546	58.88158	1.84151	130.24944	122.887
Asta 118 (127-126)	148	massimi	130.00	-131.51539	77.02546	58.88158	1.84151	27.11504	22.756
Asta 118 (127-126)	148	massimi	260.00	-134.4404	77.02546	58.88158	1.84151	56.75005	48.253
Asta 118 (127-126)	148	minimi	0.00	-300.45271	-51.65585	-79.33533	-3.47339	-96.34316	-86.053
Asta 118 (127-126)	148	minimi	130.00	-303.37772	-51.65585	-79.33533	-3.47339	-19.79864	-18.902
Asta 118 (127-126)	148	minimi	260.00	-306.30272	-51.65585	-79.33533	-3.47339	-76.02352	-77.38
Asta 119 (132-131)	149	massimi	0.00	-101.13612	80.86	49.10221	3.01033	104.8586	120.732
Asta 119 (132-131)	149	massimi	130.00	-104.06112	80.86	49.10221	3.01033	14.23585	15.619
Asta 119 (132-131)	149	massimi	260.00	-106.98612	80.86	49.10221	3.01033	55.52952	105.931
Asta 119 (132-131)	149	minimi	0.00	-192.79898	-98.06728	-69.71591	-2.44832	-72.13896	-149.045
Asta 119 (132-131)	149	minimi	130.00	-195.72398	-98.06728	-69.71591	-2.44832	-8.31403	-21.562
Asta 119 (132-131)	149	minimi	260.00	-198.64898	-98.06728	-69.71591	-2.44832	-76.4055	-89.506
Asta 120 (137-136)	150	massimi	0.00	-162.98039	57.39151	85.77785	1.78061	126.97756	87.88
Asta 120 (137-136)	150	massimi	130.00	-165.90539	57.39151	85.77785	1.78061	8.92929	13.272
Asta 120 (137-136)	150	massimi	260.00	-168.83039	57.39151	85.77785	1.78061	103.05766	57.115
Asta 120 (137-136)	150	minimi	0.00	-248.16148	-54.6372	-90.80833	-4.24342	-119.96511	-84.942
Asta 120 (137-136)	150	minimi	130.00	-251.08648	-54.6372	-90.80833	-4.24342	-8.45648	-13.915
Asta 120 (137-136)	150	minimi	260.00	-254.01148	-54.6372	-90.80833	-4.24342	-109.12448	-61.338

136)									
Asta 121 (142- 141)	151	massimi	0.00	-61.88207	48.77578	76.65896	1.62574	204.13151	67.954
Asta 121 (142- 141)	151	massimi	130.00	-64.80707	48.77578	76.65896	1.62574	1.74927	4.607
Asta 121 (142- 141)	151	massimi	260.00	-67.73207	48.77578	76.65896	1.62574	94.20388	83.594
Asta 121 (142- 141)	151	minimi	0.00	-340.30946	-73.81512	-156.03464	-5.0181	-105.14868	-108.341
Asta 121 (142- 141)	151	minimi	130.00	-343.23446	-73.81512	-156.03464	-5.0181	-5.95482	-12.443
Asta 121 (142- 141)	151	minimi	260.00	-346.15946	-73.81512	-156.03464	-5.0181	-201.59782	-58.878
Asta 122 (147- 146)	152	massimi	0.00	41.6078	43.75363	40.85128	1.79743	79.58464	57.228
Asta 122 (147- 146)	152	massimi	130.00	39.57655	43.75363	40.85128	1.79743	4.37686	0.52
Asta 122 (147- 146)	152	massimi	260.00	37.5453	43.75363	40.85128	1.79743	53.30247	55.227
Asta 122 (147- 146)	152	minimi	0.00	-131.58883	-45.43411	-58.25985	-2.47612	-52.92213	-62.916
Asta 122 (147- 146)	152	minimi	130.00	-133.62008	-45.43411	-58.25985	-2.47612	-0.34549	-4.024
Asta 122 (147- 146)	152	minimi	260.00	-135.65133	-45.43411	-58.25985	-2.47612	-71.90224	-56.546
Asta 123 (152- 151)	153	massimi	0.00	-134.30389	64.00093	21.68059	3.61942	44.98248	90.999
Asta 123 (152- 151)	153	massimi	130.00	-137.22889	64.00093	21.68059	3.61942	9.0308	7.799
Asta 123 (152- 151)	153	massimi	260.00	-140.15389	64.00093	21.68059	3.61942	22.18788	106.534
Asta 123 (152- 151)	153	minimi	0.00	-151.86835	-90.61166	-27.77717	-1.67234	-34.28243	-129.056
Asta 123 (152- 151)	153	minimi	130.00	-154.79335	-90.61166	-27.77717	-1.67234	-6.25631	-11.262
Asta 123 (152- 151)	153	minimi	260.00	-157.71835	-90.61166	-27.77717	-1.67234	-27.33894	-75.404
Asta 124 (157- 156)	154	massimi	0.00	-72.24001	45.61827	26.04258	2.02647	42.76725	61.399
Asta 124 (157- 156)	154	massimi	130.00	-74.27125	45.61827	26.04258	2.02647	2.92159	2.627
Asta 124 (157- 156)	154	massimi	260.00	-76.3025	45.61827	26.04258	2.02647	35.30071	93.054
Asta 124 (157- 156)	154	minimi	0.00	-239.15967	-70.78645	-32.28176	-1.80515	-32.43396	-90.994
Asta 124 (157- 156)	154	minimi	130.00	-241.19092	-70.78645	-32.28176	-1.80515	-0.69925	0.496
Asta 124	154	minimi	260.00	-243.22217	-70.78645	-32.28176	-1.80515	-41.1893	-57.212

(157-156)									
Asta 125 (222-221)	155	massimi	0.00	-93.9594	138.48858	13.19749	3.02017	13.03019	213.583
Asta 125 (222-221)	155	massimi	130.00	-96.8844	138.48858	13.19749	3.02017	3.66989	33.551
Asta 125 (222-221)	155	massimi	260.00	-99.8094	138.48858	13.19749	3.02017	18.56439	149.875
Asta 125 (222-221)	155	minimi	0.00	-137.65879	-141.72408	-11.79792	-2.99807	-16.00461	-218.61
Asta 125 (222-221)	155	minimi	130.00	-140.58379	-141.72408	-11.79792	-2.99807	-4.82487	-34.373
Asta 125 (222-221)	155	minimi	260.00	-143.50879	-141.72408	-11.79792	-2.99807	-17.89992	-146.49
Asta 126 (227-226)	156	massimi	0.00	-173.33869	113.18782	17.47285	2.96448	21.93296	173.321
Asta 126 (227-226)	156	massimi	130.00	-176.2637	113.18782	17.47285	2.96448	1.30259	26.18
Asta 126 (227-226)	156	massimi	260.00	-179.1887	113.18782	17.47285	2.96448	21.46256	123.944
Asta 126 (227-226)	156	minimi	0.00	-208.77587	-116.59542	-16.56428	-3.09983	-24.0243	-179.205
Asta 126 (227-226)	156	minimi	130.00	-211.70087	-116.59542	-16.56428	-3.09983	-2.21279	-27.634
Asta 126 (227-226)	156	minimi	260.00	-214.62587	-116.59542	-16.56428	-3.09983	-21.19162	-120.968
Asta 127 (232-231)	157	massimi	0.00	-184.13224	90.92059	17.35724	3.06989	22.99599	139.439
Asta 127 (232-231)	157	massimi	130.00	-187.05724	90.92059	17.35724	3.06989	1.46024	21.245
Asta 127 (232-231)	157	massimi	260.00	-189.98224	90.92059	17.35724	3.06989	21.69098	101.597
Asta 127 (232-231)	157	minimi	0.00	-206.0633	-96.25141	-17.17655	-3.06299	-23.48911	-148.658
Asta 127 (232-231)	157	minimi	130.00	-208.9883	-96.25141	-17.17655	-3.06299	-1.71846	-23.535
Asta 127 (232-231)	157	minimi	260.00	-211.9133	-96.25141	-17.17655	-3.06299	-21.7143	-96.956
Asta 128 (237-236)	158	massimi	0.00	-167.77885	83.77364	17.25147	3.16779	23.47104	128.243
Asta 128 (237-236)	158	massimi	130.00	-170.70385	83.77364	17.25147	3.16779	1.56489	19.34
Asta 128 (237-236)	158	massimi	260.00	-173.62885	83.77364	17.25147	3.16779	21.57319	93.238
Asta 128 (237-236)	158	minimi	0.00	-223.22172	-88.29041	-17.42477	-2.93804	-23.33236	-136.318
Asta 128 (237-236)	158	minimi	130.00	-226.14672	-88.29041	-17.42477	-2.93804	-1.6515	-21.543

Asta 128 (237-236)	158	minimi	260.00	-229.07172	-88.29041	-17.42477	-2.93804	-21.8851	-89.57
Asta 129 (242-241)	159	massimi	0.00	-182.04254	84.12513	17.08754	3.25296	24.10362	128.575
Asta 129 (242-241)	159	massimi	130.00	-184.96754	84.12513	17.08754	3.25296	1.82534	19.483
Asta 129 (242-241)	159	massimi	260.00	-187.89255	84.12513	17.08754	3.25296	21.5258	87.929
Asta 129 (242-241)	159	minimi	0.00	-207.16126	-83.09541	-17.7176	-2.88701	-22.95602	-128.12
Asta 129 (242-241)	159	minimi	130.00	-210.08626	-83.09541	-17.7176	-2.88701	-1.49682	-20.367
Asta 129 (242-241)	159	minimi	260.00	-213.01126	-83.09541	-17.7176	-2.88701	-22.01636	-90.152
Asta 130 (68-53)	160	massimi	0.00	12.07065	4.07028	38.01204	18.71318	25.9372	5.967
Asta 130 (68-53)	160	massimi	116.50	12.07065	4.07028	23.37348	18.71318	59.6395	1.225
Asta 130 (68-53)	160	massimi	233.00	12.07065	4.07028	8.73492	18.71318	77.85166	-3.516
Asta 130 (68-53)	160	minimi	0.00	12.07065	4.07028	-51.89254	-9.35949	11.41141	5.967
Asta 130 (68-53)	160	minimi	116.50	12.07065	4.07028	-66.53111	-9.35949	-55.51559	1.225
Asta 130 (68-53)	160	minimi	233.00	12.07065	4.07028	-81.16967	-9.35949	-141.06032	-3.516
Asta 131 (63-58)	161	massimi	0.00	-3.43755	0.19465	28.09282	1.02736	3.94938	0.585
Asta 131 (63-58)	161	massimi	204.50	-3.43755	0.19465	4.14599	0.66267	9.44317	0.187
Asta 131 (63-58)	161	massimi	409.00	-3.43755	0.19465	-18.78704	0.47609	-8.49133	-0.211
Asta 131 (63-58)	161	minimi	0.00	-3.43755	0.19465	14.74428	-0.28903	-26.13953	0.585
Asta 131 (63-58)	161	minimi	204.50	-3.43755	0.19465	-9.20255	-0.65371	6.65174	0.187
Asta 131 (63-58)	161	minimi	409.00	-3.43755	0.19465	-32.13558	-0.84029	-32.99802	-0.211
Asta 132 (58-68)	162	massimi	0.00	-9.89592	0.84672	45.92601	4.8333	-16.52018	1.824
Asta 132 (58-68)	162	massimi	205.50	-9.89592	0.84672	21.87971	4.4804	11.14725	0.084
Asta 132 (58-68)	162	massimi	411.00	-9.89592	0.84672	-1.37936	4.27068	32.05614	-1.656
Asta 132 (58-68)	162	minimi	0.00	-9.89592	0.84672	24.10086	-3.67267	-58.40903	1.824
Asta 132 (58-68)	162	minimi	205.50	-9.89592	0.84672	0.05457	-4.02557	8.14401	0.084
Asta 132 (58-68)	162	minimi	411.00	-9.89592	0.84672	-23.20451	-4.23529	-15.75695	-1.656
Asta 133 (88-58)	163	massimi	0.00	0.58049	-1.07595	15.12329	0.15999	20.60417	-1.753
Asta 133 (88-58)	163	massimi	166.00	0.58049	-1.07595	11.76179	0.15999	1.81792	0.033
Asta 133 (88-58)	163	massimi	332.00	0.58049	-1.07595	8.40029	0.15999	18.30618	1.819
Asta 133 (88-58)	163	minimi	0.00	0.58049	-1.07595	-9.64062	-0.51144	-20.74297	-1.753
Asta 133 (88-58)	163	minimi	166.00	0.58049	-1.07595	-13.00212	-0.51144	1.56443	0.033
Asta 133 (88-58)	163	minimi	332.00	0.58049	-1.07595	-16.36362	-0.51144	-22.56286	1.819
Asta 134	164	massimi	0.00	-0.08024	-0.31753	17.04637	0.56256	22.51358	-0.537

(93-63)									
Asta 134 (93-63)	164	massimi	166.00	-0.08024	-0.31753	13.68487	0.56256	1.60229	-0.01
Asta 134 (93-63)	164	massimi	332.00	-0.08024	-0.31753	10.32337	0.56256	21.48005	0.517
Asta 134 (93-63)	164	minimi	0.00	-0.08024	-0.31753	-10.92369	-0.57124	-23.95373	-0.537
Asta 134 (93-63)	164	minimi	166.00	-0.08024	-0.31753	-14.28519	-0.57124	1.54111	-0.01
Asta 134 (93-63)	164	minimi	332.00	-0.08024	-0.31753	-17.6467	-0.57124	-24.91328	0.517
Asta 135 (83-68)	165	massimi	0.00	11.22393	-5.82564	67.9717	7.2485	74.95697	-6.417
Asta 135 (83-68)	165	massimi	120.50	11.22393	-5.82564	58.06604	7.2485	47.85381	0.603
Asta 135 (83-68)	165	massimi	241.00	11.22393	-5.82564	48.16038	7.2485	29.1493	7.623
Asta 135 (83-68)	165	minimi	0.00	11.22393	-5.82564	-17.64569	-14.194	-111.11337	-6.417
Asta 135 (83-68)	165	minimi	120.50	11.22393	-5.82564	-27.55135	-14.194	-35.30368	0.603
Asta 135 (83-68)	165	minimi	241.00	11.22393	-5.82564	-37.45701	-14.194	8.2347	7.623
Asta 136 (98-83)	166	massimi	0.00	15.21791	10.20132	8.1941	25.73645	55.82082	2.056
Asta 136 (98-83)	166	massimi	45.50	15.21791	10.20132	2.53925	25.73645	56.62089	-2.585
Asta 136 (98-83)	166	massimi	91.00	15.21791	10.20132	-3.11561	25.73645	55.01119	-7.227
Asta 136 (98-83)	166	minimi	0.00	15.21791	10.20132	-65.04713	-13.98491	-39.2071	2.056
Asta 136 (98-83)	166	minimi	45.50	15.21791	10.20132	-70.70198	-13.98491	-68.44826	-2.585
Asta 136 (98-83)	166	minimi	91.00	15.21791	10.20132	-76.35684	-13.98491	-100.42556	-7.227
Asta 137 (88-93)	167	massimi	0.00	-4.08317	0.22035	32.59566	1.06672	-8.5041	0.299
Asta 137 (88-93)	167	massimi	204.50	-4.08317	0.22035	8.64883	0.70204	9.63851	-0.152
Asta 137 (88-93)	167	massimi	409.00	-4.08317	0.22035	-14.2842	0.51546	3.70327	-0.602
Asta 137 (88-93)	167	minimi	0.00	-4.08317	0.22035	19.5307	-0.16027	-32.36159	0.299
Asta 137 (88-93)	167	minimi	204.50	-4.08317	0.22035	-4.41613	-0.52495	6.77741	-0.152
Asta 137 (88-93)	167	minimi	409.00	-4.08317	0.22035	-27.34916	-0.71153	-25.87508	-0.602
Asta 138 (98-88)	168	massimi	0.00	-12.2405	0.68408	25.25186	2.89377	32.42203	1.17
Asta 138 (98-88)	168	massimi	205.50	-12.2405	0.68408	1.20557	2.54087	11.98079	-0.236
Asta 138 (98-88)	168	massimi	411.00	-12.2405	0.68408	-22.05351	2.33115	-13.95978	-1.642
Asta 138 (98-88)	168	minimi	0.00	-12.2405	0.68408	2.1163	-2.4404	-19.45499	1.17
Asta 138 (98-88)	168	minimi	205.50	-12.2405	0.68408	-21.92999	-2.7933	7.54307	-0.236
Asta 138 (98-88)	168	minimi	411.00	-12.2405	0.68408	-45.18907	-3.00302	-57.17206	-1.642
Asta 139 (113-98)	169	massimi	0.00	14.53382	-2.03918	65.8871	7.01835	50.30131	-4.584
Asta 139 (113-98)	169	massimi	191.50	14.53382	-2.03918	42.08576	7.01835	27.29968	-0.679
Asta 139 (113-98)	169	massimi	383.00	14.53382	-2.03918	18.28441	7.01835	58.56613	3.226
Asta 139 (113-98)	169	minimi	0.00	14.53382	-2.03918	-0.16658	-8.23385	-102.6255	-4.584
Asta 139 (113-98)	169	minimi	191.50	14.53382	-2.03918	-23.96793	-8.23385	0.65134	-0.679
Asta 139	169	minimi	383.00	14.53382	-2.03918	-47.76927	-8.23385	-41.49904	3.226

(113-98)									
Asta 140 (143-113)	170	massimi	0.00	5.18457	2.41652	88.80127	6.709	91.22418	2.493
Asta 140 (143-113)	170	massimi	165.00	5.18457	2.41652	83.2283	6.709	7.87806	-1.495
Asta 140 (143-113)	170	massimi	330.00	5.18457	2.41652	77.65533	6.709	122.59635	-5.482
Asta 140 (143-113)	170	minimi	0.00	5.18457	2.41652	-47.73087	-0.75534	-152.05834	2.493
Asta 140 (143-113)	170	minimi	165.00	5.18457	2.41652	-53.30384	-0.75534	-10.14146	-1.495
Asta 140 (143-113)	170	minimi	330.00	5.18457	2.41652	-58.8768	-0.75534	-84.67978	-5.482
Asta 141 (3-2)	171	massimi	0.00	-122.00306	163.66144	76.19733	10.95466	22.46471	55.997
Asta 141 (3-2)	171	massimi	94.00	-126.23306	163.66144	76.19733	10.95466	52.5485	137.934
Asta 141 (3-2)	171	massimi	188.00	-130.46306	163.66144	76.19733	10.95466	120.85284	247.024
Asta 141 (3-2)	171	minimi	0.00	-374.2719	-116.71347	-57.85964	-10.47961	-28.90814	-45.049
Asta 141 (3-2)	171	minimi	94.00	-378.5019	-116.71347	-57.85964	-10.47961	-41.7545	-171.117
Asta 141 (3-2)	171	minimi	188.00	-382.7319	-116.71347	-57.85964	-10.47961	-92.82141	-324.339
Asta 142 (8-7)	172	massimi	0.00	-128.4387	113.53867	71.58296	12.03785	19.28093	42.209
Asta 142 (8-7)	172	massimi	94.00	-132.6687	113.53867	71.58296	12.03785	39.5843	175.81
Asta 142 (8-7)	172	massimi	188.00	-136.8987	113.53867	71.58296	12.03785	106.26356	332.557
Asta 142 (8-7)	172	minimi	0.00	-390.49843	-167.51124	-41.55433	-9.39642	-31.03681	-50.996
Asta 142 (8-7)	172	minimi	94.00	-394.72843	-167.51124	-41.55433	-9.39642	-23.11326	-133.863
Asta 142 (8-7)	172	minimi	188.00	-398.95843	-167.51124	-41.55433	-9.39642	-61.56562	-239.876
Asta 143 (13-12)	173	massimi	0.00	-209.45429	156.29704	103.43796	11.68672	31.11053	11.566
Asta 143 (13-12)	173	massimi	94.00	-213.68429	156.29704	103.43796	11.68672	77.86056	77.252
Asta 143 (13-12)	173	massimi	188.00	-217.91429	156.29704	103.43796	11.68672	173.1244	163.662
Asta 143 (13-12)	173	minimi	0.00	-363.27193	-92.32641	-96.69249	-9.74755	-33.30702	-43.384
Asta 143 (13-12)	173	minimi	94.00	-367.50193	-92.32641	-96.69249	-9.74755	-73.71631	-169.203
Asta 143 (13-12)	173	minimi	188.00	-371.73193	-92.32641	-96.69249	-9.74755	-162.63941	-315.745
Asta 144 (18-17)	174	massimi	0.00	-273.10201	281.05257	97.59719	13.04155	29.35323	89.02
Asta 144 (18-17)	174	massimi	94.00	-277.33201	281.05257	97.59719	13.04155	63.74229	263.256
Asta 144 (18-17)	174	massimi	188.00	-281.56201	281.05257	97.59719	13.04155	155.07294	561.37
Asta 144 (18-17)	174	minimi	0.00	-374.17126	-317.38408	-75.19849	-8.39272	-36.58368	-49.90
Asta 144 (18-17)	174	minimi	94.00	-378.40126	-317.38408	-75.19849	-8.39272	-49.91797	-189.985
Asta 144 (18-17)	174	minimi	188.00	-382.63126	-317.38408	-75.19849	-8.39272	-120.19385	-453.947
Asta 145 (23-22)	175	massimi	0.00	-22.82106	22.37072	45.77198	2.1139	10.97941	-1.518
Asta 145	175	massimi	94.00	-24.28981	22.37072	45.77198	2.1139	31.70726	41.496

(23-22)									
Asta 145 (23-22)	175	massimi	188.00	-25.75856	22.37072	45.77198	2.1139	74.02103	86.246
Asta 145 (23-22)	175	minimi	0.00	-91.30971	-47.64326	-22.50566	-1.22134	-16.77352	-9.826
Asta 145 (23-22)	175	minimi	94.00	-92.77846	-47.64326	-22.50566	-1.22134	-15.63104	-29.083
Asta 145 (23-22)	175	minimi	188.00	-94.2472	-47.64326	-22.50566	-1.22134	-36.07447	-50.077
Asta 146 (28-27)	176	massimi	0.00	-235.51134	131.29131	101.57284	11.56756	31.73729	-0.959
Asta 146 (28-27)	176	massimi	94.00	-239.74134	131.29131	101.57284	11.56756	77.26468	64.709
Asta 146 (28-27)	176	massimi	188.00	-243.97134	131.29131	101.57284	11.56756	171.08436	132.601
Asta 146 (28-27)	176	minimi	0.00	-353.994	-72.32696	-103.11316	-9.86671	-31.46273	-24.183
Asta 146 (28-27)	176	minimi	94.00	-358.224	-72.32696	-103.11316	-9.86671	-78.43801	-145.278
Asta 146 (28-27)	176	minimi	188.00	-362.454	-72.32696	-103.11316	-9.86671	-173.70559	-268.596
Asta 147 (33-32)	177	massimi	0.00	-340.23065	161.878	90.48928	11.93416	30.53134	48.634
Asta 147 (33-32)	177	massimi	94.00	-344.46065	161.878	90.48928	11.93416	59.50871	183.401
Asta 147 (33-32)	177	massimi	188.00	-348.69065	161.878	90.48928	11.93416	144.08955	350.92
Asta 147 (33-32)	177	minimi	0.00	-388.51733	-178.44767	-83.97489	-9.50011	-33.53116	-1.007
Asta 147 (33-32)	177	minimi	94.00	-392.74733	-178.44767	-83.97489	-9.50011	-56.385	-120.198
Asta 147 (33-32)	177	minimi	188.00	-396.97733	-178.44767	-83.97489	-9.50011	-134.84231	-272.142
Asta 148 (38-37)	178	massimi	0.00	-44.82234	5.73348	50.08862	1.9887	10.77681	-2.455
Asta 148 (38-37)	178	massimi	94.00	-46.29109	5.73348	50.08862	1.9887	36.12689	34.446
Asta 148 (38-37)	178	massimi	188.00	-47.75984	5.73348	50.08862	1.9887	81.20977	71.608
Asta 148 (38-37)	178	minimi	0.00	-123.42966	-39.80304	-29.00981	-1.34654	-16.37481	-12.338
Asta 148 (38-37)	178	minimi	94.00	-124.89841	-39.80304	-29.00981	-1.34654	-21.91081	-17.214
Asta 148 (38-37)	178	minimi	188.00	-126.36716	-39.80304	-29.00981	-1.34654	-47.17961	-22.351
Asta 149 (43-42)	179	massimi	0.00	-229.50347	116.83759	101.39469	10.26244	31.89048	9.297
Asta 149 (43-42)	179	massimi	94.00	-233.73347	116.83759	101.39469	10.26244	77.04465	48.37
Asta 149 (43-42)	179	massimi	188.00	-237.96347	116.83759	101.39469	10.26244	170.7816	103.061
Asta 149 (43-42)	179	minimi	0.00	-359.7827	-59.0419	-103.60882	-11.17183	-31.42061	-32.505
Asta 149 (43-42)	179	minimi	94.00	-364.0127	-59.0419	-103.60882	-11.17183	-78.65606	-125.906
Asta 149 (43-42)	179	minimi	188.00	-368.2427	-59.0419	-103.60882	-11.17183	-174.47429	-234.925
Asta 150 (48-47)	180	massimi	0.00	-344.69205	158.34307	88.09303	10.95015	31.75018	51.431
Asta 150 (48-47)	180	massimi	94.00	-348.92205	158.34307	88.09303	10.95015	57.97178	165.936
Asta 150 (48-47)	180	massimi	188.00	-353.15205	158.34307	88.09303	10.95015	140.3315	323.682
Asta 150 (48-47)	180	minimi	0.00	-393.68307	-168.37573	-88.00969	-10.48412	-32.78519	-2.377
Asta 150 (48-47)	180	minimi	94.00	-397.91307	-168.37573	-88.00969	-10.48412	-58.92846	-107.451
Asta 150 (48-47)	180	minimi	188.00	-402.14307	-168.37573	-88.00969	-10.48412	-141.20985	-255.766
Asta 151	181	massimi	0.00	-73.01916	8.85964	91.70883	0.26523	40.07699	-4.078

(53-52)									
Asta 151 (53-52)	181	massimi	94.00	-74.48791	8.85964	91.70883	0.26523	19.047	28.097
Asta 151 (53-52)	181	massimi	188.00	-75.95666	8.85964	91.70883	0.26523	105.18368	66.136
Asta 151 (53-52)	181	minimi	0.00	-171.19146	-41.03394	-59.65515	-3.07	-67.92173	-11.629
Asta 151 (53-52)	181	minimi	94.00	-172.66021	-41.03394	-59.65515	-3.07	-16.76128	-13.56
Asta 151 (53-52)	181	minimi	188.00	-174.12896	-41.03394	-59.65515	-3.07	-72.7675	-21.355
Asta 152 (58-57)	182	massimi	0.00	-52.3759	8.82441	13.31785	1.37117	22.95873	16.727
Asta 152 (58-57)	182	massimi	94.00	-53.84465	8.82441	13.31785	1.37117	16.74709	9.038
Asta 152 (58-57)	182	massimi	188.00	-55.3134	8.82441	13.31785	1.37117	17.53195	3.589
Asta 152 (58-57)	182	minimi	0.00	-76.53692	-23.89304	-13.1747	-1.80366	-25.69059	-49.815
Asta 152 (58-57)	182	minimi	94.00	-78.00567	-23.89304	-13.1747	-1.80366	-19.34438	-27.962
Asta 152 (58-57)	182	minimi	188.00	-79.47442	-23.89304	-13.1747	-1.80366	-19.99469	-8.348
Asta 153 (63-62)	183	massimi	0.00	-12.31655	1.73267	11.93395	1.51982	22.35249	4.02
Asta 153 (63-62)	183	massimi	94.00	-13.7853	1.73267	11.93395	1.51982	17.27601	3.504
Asta 153 (63-62)	183	massimi	188.00	-15.25405	1.73267	11.93395	1.51982	18.87333	4.044
Asta 153 (63-62)	183	minimi	0.00	-37.84388	-9.24284	-11.38417	-1.65501	-25.04739	-26.202
Asta 153 (63-62)	183	minimi	94.00	-39.31263	-9.24284	-11.38417	-1.65501	-19.45411	-18.626
Asta 153 (63-62)	183	minimi	188.00	-40.78137	-9.24284	-11.38417	-1.65501	-20.53463	-12.107
Asta 154 (73-72)	184	massimi	0.00	-220.53319	126.28761	98.16914	10.1622	32.77345	13.392
Asta 154 (73-72)	184	massimi	94.00	-224.76319	126.28761	98.16914	10.1622	74.26969	40.571
Asta 154 (73-72)	184	massimi	188.00	-228.99319	126.28761	98.16914	10.1622	165.43781	99.905
Asta 154 (73-72)	184	minimi	0.00	-359.54335	-66.18485	-104.70251	-11.27207	-30.98527	-36.922
Asta 154 (73-72)	184	minimi	94.00	-363.77335	-66.18485	-104.70251	-11.27207	-78.62288	-120.598
Asta 154 (73-72)	184	minimi	188.00	-368.00335	-66.18485	-104.70251	-11.27207	-175.93235	-236.428
Asta 155 (78-77)	185	massimi	0.00	-319.6888	156.29878	82.53415	9.98001	33.34031	69.462
Asta 155 (78-77)	185	massimi	94.00	-323.9188	156.29878	82.53415	9.98001	54.19757	150.317
Asta 155 (78-77)	185	massimi	188.00	-328.1488	156.29878	82.53415	9.98001	131.30404	296.937
Asta 155 (78-77)	185	minimi	0.00	-399.19652	-159.06477	-92.43785	-11.45426	-31.49417	-15.668
Asta 155 (78-77)	185	minimi	94.00	-403.42652	-159.06477	-92.43785	-11.45426	-61.66091	-93.923
Asta 155 (78-77)	185	minimi	188.00	-407.65652	-159.06477	-92.43785	-11.45426	-148.07685	-237.944
Asta 156 (83-82)	186	massimi	0.00	-113.05509	17.73828	96.46996	1.37897	78.24498	5.483
Asta 156 (83-82)	186	massimi	94.00	-114.52384	17.73828	96.46996	1.37897	10.88962	24.876
Asta 156 (83-82)	186	massimi	188.00	-115.99259	17.73828	96.46996	1.37897	101.48441	65.754
Asta 156 (83-82)	186	minimi	0.00	-175.94821	-43.58294	-95.14889	-1.95627	-79.88935	-16.256
Asta 156 (83-82)	186	minimi	94.00	-177.41696	-43.58294	-95.14889	-1.95627	-11.29218	-11.356
Asta 156	186	minimi	188.00	-178.88571	-43.58294	-95.14889	-1.95627	-100.64516	-27.94

(83-82)									
Asta 157 (88-87)	187	massimi	0.00	-47.87615	9.64468	13.5793	1.39993	22.32901	18.147
Asta 157 (88-87)	187	massimi	94.00	-49.3449	9.64468	13.5793	1.39993	17.82024	9.405
Asta 157 (88-87)	187	massimi	188.00	-50.81365	9.64468	13.5793	1.39993	20.07973	2.92
Asta 157 (88-87)	187	minimi	0.00	-76.97546	-23.80744	-11.49083	-1.7749	-23.76854	-48.765
Asta 157 (88-87)	187	minimi	94.00	-78.44421	-23.80744	-11.49083	-1.7749	-17.29661	-26.71
Asta 157 (88-87)	187	minimi	188.00	-79.91296	-23.80744	-11.49083	-1.7749	-17.59294	-6.912
Asta 158 (93-92)	188	massimi	0.00	-6.62776	1.90728	11.80558	1.52193	24.28877	3.791
Asta 158 (93-92)	188	massimi	94.00	-8.09651	1.90728	11.80558	1.52193	18.93949	2.991
Asta 158 (93-92)	188	massimi	188.00	-9.56526	1.90728	11.80558	1.52193	20.49344	3.187
Asta 158 (93-92)	188	minimi	0.00	-41.12829	-9.43857	-11.52537	-1.6529	-23.04469	-25.972
Asta 158 (93-92)	188	minimi	94.00	-42.59704	-9.43857	-11.52537	-1.6529	-17.43201	-18.092
Asta 158 (93-92)	188	minimi	188.00	-44.06579	-9.43857	-11.52537	-1.6529	-18.72257	-11.209
Asta 159 (103-102)	189	massimi	0.00	-116.20142	150.4062	73.77467	11.58931	31.35623	37.605
Asta 159 (103-102)	189	massimi	94.00	-120.43142	150.4062	73.77467	11.58931	49.28014	50.33
Asta 159 (103-102)	189	massimi	188.00	-124.66142	150.4062	73.77467	11.58931	117.28554	123.398
Asta 159 (103-102)	189	minimi	0.00	-380.35692	-79.18886	-84.57718	-9.84496	-28.057	-54.922
Asta 159 (103-102)	189	minimi	94.00	-384.58692	-79.18886	-84.57718	-9.84496	-56.13527	-134.592
Asta 159 (103-102)	189	minimi	188.00	-388.81692	-79.18886	-84.57718	-9.84496	-134.29502	-274.604
Asta 160 (108-107)	190	massimi	0.00	-211.19988	150.62138	62.02034	9.79292	33.28259	58.901
Asta 160 (108-107)	190	massimi	94.00	-215.42988	150.62138	62.02034	9.79292	32.99505	145.843
Asta 160 (108-107)	190	massimi	188.00	-219.65988	150.62138	62.02034	9.79292	90.96439	293.075
Asta 160 (108-107)	190	minimi	0.00	-425.83735	-158.10786	-81.85139	-11.64135	-29.39643	-18.631
Asta 160 (108-107)	190	minimi	94.00	-430.06735	-158.10786	-81.85139	-11.64135	-47.75007	-98.535
Asta 160 (108-107)	190	minimi	188.00	-434.29735	-158.10786	-81.85139	-11.64135	-124.36059	-238.731
Asta 161 (113-112)	191	massimi	0.00	-43.89046	13.7939	72.06941	0.68595	104.8567	-3.164
Asta 161 (113-112)	191	massimi	94.00	-45.35921	13.7939	72.06941	0.68595	8.40394	31.485
Asta 161 (113-112)	191	massimi	188.00	-46.82796	13.7939	72.06941	0.68595	76.1244	72.70
Asta 161	191	minimi	0.00	-122.20513	-43.8601	-122.23911	-2.64929	-59.37162	-9.971

(113-112)									
Asta 161 (113-112)	191	minimi	94.00	-123.67388	-43.8601	-122.23911	-2.64929	-10.07839	-16.358
Asta 161 (113-112)	191	minimi	188.00	-125.14263	-43.8601	-122.23911	-2.64929	-124.95835	-29.311
Asta 162 (118-117)	192	massimi	0.00	-56.91952	42.26647	53.42319	1.82663	6.55564	7.574
Asta 162 (118-117)	192	massimi	94.00	-58.38827	42.26647	53.42319	1.82663	33.28518	22.02
Asta 162 (118-117)	192	massimi	188.00	-59.85702	42.26647	53.42319	1.82663	83.35783	38.837
Asta 162 (118-117)	192	minimi	0.00	-101.39811	-17.9118	-25.12677	-1.50861	-21.58739	0.344
Asta 162 (118-117)	192	minimi	94.00	-102.86686	-17.9118	-25.12677	-1.50861	-21.71829	-36.996
Asta 162 (118-117)	192	minimi	188.00	-104.33561	-17.9118	-25.12677	-1.50861	-45.19231	-76.706
Asta 163 (123-122)	193	massimi	0.00	-25.87802	7.87289	33.7898	0.65854	9.94029	-0.447
Asta 163 (123-122)	193	massimi	94.00	-27.34677	7.87289	33.7898	0.65854	23.50549	32.057
Asta 163 (123-122)	193	massimi	188.00	-28.81552	7.87289	33.7898	0.65854	55.09381	65.804
Asta 163 (123-122)	193	minimi	0.00	-92.50177	-36.03892	-25.36485	-2.6767	-13.3467	-8.201
Asta 163 (123-122)	193	minimi	94.00	-93.97052	-36.03892	-25.36485	-2.6767	-18.99246	-14.229
Asta 163 (123-122)	193	minimi	188.00	-95.43927	-36.03892	-25.36485	-2.6767	-42.66132	-21.50
Asta 164 (128-127)	194	massimi	0.00	-51.5902	40.072	27.5483	1.06253	22.20201	7.018
Asta 164 (128-127)	194	massimi	94.00	-53.05895	40.072	27.5483	1.06253	24.37584	22.588
Asta 164 (128-127)	194	massimi	188.00	-54.5277	40.072	27.5483	1.06253	50.04862	47.987
Asta 164 (128-127)	194	minimi	0.00	-92.52529	-27.03267	-54.06847	-2.27271	-6.72219	-3.208
Asta 164 (128-127)	194	minimi	94.00	-93.99404	-27.03267	-54.06847	-2.27271	-33.82499	-31.035
Asta 164 (128-127)	194	minimi	188.00	-95.46279	-27.03267	-54.06847	-2.27271	-84.42673	-68.691
Asta 165 (133-132)	195	massimi	0.00	-56.89465	33.63386	22.66597	1.61619	13.20298	3.95
Asta 165 (133-132)	195	massimi	94.00	-58.3634	33.63386	22.66597	1.61619	16.50044	33.87
Asta 165 (133-132)	195	massimi	188.00	-59.83215	33.63386	22.66597	1.61619	37.61169	69.90

Asta 165 (133-132)	195	minimi	0.00	-100.5288	-38.3416	-33.799	-1.71905	-10.23164	-3.363
Asta 165 (133-132)	195	minimi	94.00	-101.99755	-38.3416	-33.799	-1.71905	-23.99415	-28.858
Asta 165 (133-132)	195	minimi	188.00	-103.4663	-38.3416	-33.799	-1.71905	-55.57044	-60.463
Asta 166 (138-137)	196	massimi	0.00	-72.3568	26.47556	32.23422	0.84368	13.1442	4.285
Asta 166 (138-137)	196	massimi	94.00	-73.82555	26.47556	32.23422	0.84368	24.08936	22.699
Asta 166 (138-137)	196	massimi	188.00	-75.2943	26.47556	32.23422	0.84368	52.97876	44.626
Asta 166 (138-137)	196	minimi	0.00	-105.54691	-23.34572	-35.16274	-2.49156	-12.01701	-1.35
Asta 166 (138-137)	196	minimi	94.00	-107.01566	-23.34572	-35.16274	-2.49156	-25.71497	-22.707
Asta 166 (138-137)	196	minimi	188.00	-108.48441	-23.34572	-35.16274	-2.49156	-57.35718	-47.575
Asta 167 (143-142)	197	massimi	0.00	3.55077	15.10978	53.52389	-0.33453	73.45203	2.012
Asta 167 (143-142)	197	massimi	94.00	2.08202	15.10978	53.52389	-0.33453	10.8027	26.293
Asta 167 (143-142)	197	massimi	188.00	0.61327	15.10978	53.52389	-0.33453	61.04252	55.704
Asta 167 (143-142)	197	minimi	0.00	-143.53024	-31.37908	-95.70144	-3.66977	-39.61742	-6.614
Asta 167 (143-142)	197	minimi	94.00	-144.99899	-31.37908	-95.70144	-3.66977	-16.61499	-15.602
Asta 167 (143-142)	197	minimi	188.00	-146.46774	-31.37908	-95.70144	-3.66977	-106.5017	-29.72
Asta 168 (148-147)	198	massimi	0.00	10.9721	25.86606	27.05719	1.41521	15.00251	2.497
Asta 168 (148-147)	198	massimi	94.00	9.50335	25.86606	27.05719	1.41521	18.97318	25.80
Asta 168 (148-147)	198	massimi	188.00	8.0346	25.86606	27.05719	1.41521	42.98528	56.025
Asta 168 (148-147)	198	minimi	0.00	-66.13252	-32.16773	-40.64883	-1.75962	-11.64609	-4.964
Asta 168 (148-147)	198	minimi	94.00	-67.60127	-32.16773	-40.64883	-1.75962	-28.39289	-22.344
Asta 168 (148-147)	198	minimi	188.00	-69.07002	-32.16773	-40.64883	-1.75962	-65.18113	-46.646
Asta 169 (153-152)	199	massimi	0.00	-72.22692	19.81839	15.08577	2.44971	8.34312	0.876
Asta 169 (153-152)	199	massimi	94.00	-73.69567	19.81839	15.08577	2.44971	9.34242	29.516
Asta 169 (153-152)	199	massimi	188.00	-75.16442	19.81839	15.08577	2.44971	23.28764	60.513

152)									
Asta 169 (153-152)	199	minimi	0.00	-79.32057	-33.13199	-17.6843	-0.88553	-7.22998	-5.168
Asta 169 (153-152)	199	minimi	94.00	-80.78932	-33.13199	-17.6843	-0.88553	-10.67191	-21.294
Asta 169 (153-152)	199	minimi	188.00	-82.25807	-33.13199	-17.6843	-0.88553	-27.05975	-39.776
Asta 170 (158-157)	200	massimi	0.00	-60.22794	26.59762	17.7176	2.00887	8.18975	1.08
Asta 170 (158-157)	200	massimi	94.00	-61.69669	26.59762	17.7176	2.00887	8.57759	32.483
Asta 170 (158-157)	200	massimi	188.00	-63.16544	26.59762	17.7176	2.00887	24.99972	68.662
Asta 170 (158-157)	200	minimi	0.00	-87.58507	-38.50289	-19.38446	-1.16597	-10.45245	-5.206
Asta 170 (158-157)	200	minimi	94.00	-89.05382	-38.50289	-19.38446	-1.16597	-12.40713	-25.417
Asta 170 (158-157)	200	minimi	188.00	-90.52257	-38.50289	-19.38446	-1.16597	-30.39612	-50.405
Asta 171 (4-9)	201	massimi	0.00	39.30857	0.08717	75.47287	1.98018	37.99638	0.371
Asta 171 (4-9)	201	massimi	630.00	39.30857	0.08717	22.41982	3.06482	55.24654	-0.179
Asta 171 (4-9)	201	massimi	1260.00	39.30857	0.08717	-28.12524	3.69596	35.90499	-0.728
Asta 171 (4-9)	201	minimi	0.00	39.30857	0.08717	29.46923	-3.5945	-251.85149	0.371
Asta 171 (4-9)	201	minimi	630.00	39.30857	0.08717	-23.58382	-2.50985	55.16593	-0.179
Asta 171 (4-9)	201	minimi	1260.00	39.30857	0.08717	-74.12887	-1.87871	-253.89299	-0.728
Asta 172 (14-4)	202	massimi	0.00	-0.99606	0.2754	96.05782	4.06746	164.81341	0.957
Asta 172 (14-4)	202	massimi	237.00	-0.99606	0.2754	71.28219	4.49128	22.47208	0.304
Asta 172 (14-4)	202	massimi	474.00	-0.99606	0.2754	47.71711	4.70379	163.23434	-0.349
Asta 172 (14-4)	202	minimi	0.00	-0.99606	0.2754	-57.03448	-2.96309	-175.60127	0.957
Asta 172 (14-4)	202	minimi	237.00	-0.99606	0.2754	-81.81011	-2.53927	0.02897	0.304
Asta 172 (14-4)	202	minimi	474.00	-0.99606	0.2754	-105.37519	-2.32676	-222.01187	-0.349
Asta 173 (9-19)	203	massimi	0.00	-2.6892	-0.90645	102.21525	1.55565	118.46705	-2.507
Asta 173 (9-19)	203	massimi	237.00	-2.6892	-0.90645	77.43962	1.97947	20.32794	-0.359
Asta 173 (9-19)	203	massimi	474.00	-2.6892	-0.90645	53.87454	2.19198	157.26499	1.789
Asta 173 (9-19)	203	minimi	0.00	-2.6892	-0.90645	-28.94207	-7.4783	-210.76165	-2.507
Asta 173 (9-19)	203	minimi	237.00	-2.6892	-0.90645	-53.7177	-7.05448	1.8385	-0.359
Asta 173 (9-19)	203	minimi	474.00	-2.6892	-0.90645	-77.28278	-6.84197	-135.205	1.789
Asta 174 (29-14)	204	massimi	0.00	-0.84492	-0.5216	103.61537	3.23267	163.91144	-1.331
Asta 174 (29-14)	204	massimi	237.00	-0.84492	-0.5216	78.83974	3.65649	11.59082	-0.095
Asta 174 (29-14)	204	massimi	474.00	-0.84492	-0.5216	55.27466	3.869	170.25576	1.141

Asta 174 (29-14)	204	minimi	0.00	-0.84492	-0.5216	-52.58873	-5.45886	-204.40129	-1.331
Asta 174 (29-14)	204	minimi	237.00	-0.84492	-0.5216	-77.36437	-5.03504	9.65603	-0.095
Asta 174 (29-14)	204	minimi	474.00	-0.84492	-0.5216	-100.92944	-4.82253	-201.83968	1.141
Asta 175 (24-19)	205	massimi	0.00	-13.25335	-0.77605	79.32599	3.93913	67.81846	-2.281
Asta 175 (24-19)	205	massimi	307.50	-13.25335	-0.77605	36.29302	3.3805	66.55818	0.106
Asta 175 (24-19)	205	massimi	615.00	-13.25335	-0.77605	-5.04783	3.11375	114.16281	2.492
Asta 175 (24-19)	205	minimi	0.00	-13.25335	-0.77605	1.29958	-2.06171	-110.79199	-2.281
Asta 175 (24-19)	205	minimi	307.50	-13.25335	-0.77605	-41.7334	-2.62033	5.19832	0.106
Asta 175 (24-19)	205	minimi	615.00	-13.25335	-0.77605	-83.07425	-2.88709	-187.12578	2.492
Asta 176 (19-34)	206	massimi	0.00	-4.31085	0.21389	87.97886	3.0241	133.94889	0.912
Asta 176 (19-34)	206	massimi	237.00	-4.31085	0.21389	66.99867	3.0241	11.97187	0.405
Asta 176 (19-34)	206	massimi	474.00	-4.31085	0.21389	46.01849	3.0241	143.51419	-0.102
Asta 176 (19-34)	206	minimi	0.00	-4.31085	0.21389	-41.42739	-5.08511	-174.06183	0.912
Asta 176 (19-34)	206	minimi	237.00	-4.31085	0.21389	-62.40757	-5.08511	8.51912	0.405
Asta 176 (19-34)	206	minimi	474.00	-4.31085	0.21389	-83.38776	-5.08511	-161.86533	-0.102
Asta 177 (39-24)	207	massimi	0.00	-12.40921	0.61708	23.4313	3.22954	37.721	1.09
Asta 177 (39-24)	207	massimi	237.00	-12.40921	0.61708	12.98192	2.81534	15.59171	-0.372
Asta 177 (39-24)	207	massimi	474.00	-12.40921	0.61708	3.56571	2.58611	34.66805	-1.835
Asta 177 (39-24)	207	minimi	0.00	-12.40921	0.61708	-13.08031	-0.21319	-27.74007	1.09
Asta 177 (39-24)	207	minimi	237.00	-12.40921	0.61708	-23.52969	-0.62739	-6.25206	-0.372
Asta 177 (39-24)	207	minimi	474.00	-12.40921	0.61708	-32.9459	-0.85662	-73.05113	-1.835
Asta 178 (44-29)	208	massimi	0.00	-1.2722	0.03362	103.7788	3.83911	164.80516	-0.453
Asta 178 (44-29)	208	massimi	237.00	-1.2722	0.03362	79.00317	4.26293	9.8708	-0.533
Asta 178 (44-29)	208	massimi	474.00	-1.2722	0.03362	55.43809	4.47545	168.71124	-0.612
Asta 178 (44-29)	208	minimi	0.00	-1.2722	0.03362	-52.99318	-4.85371	-206.72024	-0.453
Asta 178 (44-29)	208	minimi	237.00	-1.2722	0.03362	-77.76881	-4.42989	9.37963	-0.533
Asta 178 (44-29)	208	minimi	474.00	-1.2722	0.03362	-101.33389	-4.21737	-202.86278	-0.612
Asta 179 (39-34)	209	massimi	0.00	-17.2481	-1.37085	94.89377	6.16212	40.30732	-4.084
Asta 179 (39-34)	209	massimi	307.50	-17.2481	-1.37085	24.95342	6.16212	79.28027	0.131
Asta 179 (39-34)	209	massimi	615.00	-17.2481	-1.37085	-44.98693	6.16212	48.4778	4.347
Asta 179 (39-34)	209	minimi	0.00	-17.2481	-1.37085	31.75577	-4.65118	-104.98634	-4.084
Asta 179 (39-34)	209	minimi	307.50	-17.2481	-1.37085	-38.18458	-4.65118	30.42146	0.131
Asta 179 (39-34)	209	minimi	615.00	-17.2481	-1.37085	-108.12493	-4.65118	-194.52848	4.347
Asta 180 (34-49)	210	massimi	0.00	-5.8304	0.81977	85.56415	3.98925	139.76042	2.305
Asta 180 (34-49)	210	massimi	237.00	-5.8304	0.81977	64.58397	3.98925	9.39693	0.362

Asta 180 (34-49)	210	massimi	474.00	-5.8304	0.81977	43.60378	3.98925	137.22559	-1.58
Asta 180 (34-49)	210	minimi	0.00	-5.8304	0.81977	-44.57292	-4.27526	-168.90246	2.305
Asta 180 (34-49)	210	minimi	237.00	-5.8304	0.81977	-65.55311	-4.27526	8.8872	0.362
Asta 180 (34-49)	210	minimi	474.00	-5.8304	0.81977	-86.53329	-4.27526	-170.96136	-1.58
Asta 181 (54-39)	211	massimi	0.00	-24.31947	0.8304	27.09708	1.25103	58.17929	1.263
Asta 181 (54-39)	211	massimi	237.00	-24.31947	0.8304	16.6477	0.83684	11.61929	-0.705
Asta 181 (54-39)	211	massimi	474.00	-24.31947	0.8304	7.23149	0.60761	34.29435	-2.673
Asta 181 (54-39)	211	minimi	0.00	-24.31947	0.8304	-14.49238	-1.86161	-45.44994	1.263
Asta 181 (54-39)	211	minimi	237.00	-24.31947	0.8304	-24.94175	-2.2758	5.81009	-0.705
Asta 181 (54-39)	211	minimi	474.00	-24.31947	0.8304	-34.35797	-2.50503	-59.24638	-2.673
Asta 182 (74-44)	212	massimi	0.00	-1.56582	0.42037	103.12796	4.32366	164.97485	0.857
Asta 182 (74-44)	212	massimi	237.00	-1.56582	0.42037	78.35232	4.74748	10.87998	-0.139
Asta 182 (74-44)	212	massimi	474.00	-1.56582	0.42037	54.78725	4.95999	167.35452	-1.136
Asta 182 (74-44)	212	minimi	0.00	-1.56582	0.42037	-52.73323	-4.38956	-204.99254	0.857
Asta 182 (74-44)	212	minimi	237.00	-1.56582	0.42037	-77.50886	-3.96574	9.3414	-0.139
Asta 182 (74-44)	212	minimi	474.00	-1.56582	0.42037	-101.07394	-3.75323	-201.46154	-1.136
Asta 183 (54-49)	213	massimi	0.00	-20.84041	-2.19675	90.74532	4.40564	37.54335	-6.888
Asta 183 (54-49)	213	massimi	307.50	-20.84041	-2.19675	20.80496	4.40564	74.62986	-0.133
Asta 183 (54-49)	213	massimi	615.00	-20.84041	-2.19675	-49.13539	4.40564	31.06936	6.622
Asta 183 (54-49)	213	minimi	0.00	-20.84041	-2.19675	33.39992	-5.01716	-96.92619	-6.888
Asta 183 (54-49)	213	minimi	307.50	-20.84041	-2.19675	-36.54043	-5.01716	32.66732	-0.133
Asta 183 (54-49)	213	minimi	615.00	-20.84041	-2.19675	-106.48078	-5.01716	-187.22532	6.622
Asta 184 (49-79)	214	massimi	0.00	-6.33174	1.40532	85.74444	4.46986	141.76803	3.663
Asta 184 (49-79)	214	massimi	237.00	-6.33174	1.40532	64.76425	4.46986	10.08935	0.332
Asta 184 (49-79)	214	massimi	474.00	-6.33174	1.40532	43.78406	4.46986	138.37161	-2.998
Asta 184 (49-79)	214	minimi	0.00	-6.33174	1.40532	-45.35799	-3.7276	-168.61139	3.663
Asta 184 (49-79)	214	minimi	237.00	-6.33174	1.40532	-66.33818	-3.7276	9.06012	0.332
Asta 184 (49-79)	214	minimi	474.00	-6.33174	1.40532	-87.31836	-3.7276	-172.67539	-2.998
Asta 185 (84-54)	215	massimi	0.00	-54.6137	1.51338	30.69717	2.05769	61.52894	3.663
Asta 185 (84-54)	215	massimi	237.00	-54.6137	1.51338	18.41105	1.64349	13.06086	0.077
Asta 185 (84-54)	215	massimi	474.00	-54.6137	1.51338	7.15808	1.41427	39.25344	-3.51
Asta 185 (84-54)	215	minimi	0.00	-54.6137	1.51338	-14.51992	-1.19519	-48.8416	3.663
Asta 185 (84-54)	215	minimi	237.00	-54.6137	1.51338	-26.80605	-1.60939	8.44034	0.077
Asta 185 (84-54)	215	minimi	474.00	-54.6137	1.51338	-38.05901	-1.83861	-64.72602	-3.51
Asta 186 (104-74)	216	massimi	0.00	-2.02612	0.13071	109.32637	3.40611	174.10087	1.162

Asta 186 (104-74)	216	massimi	237.00	-2.02612	0.13071	84.55074	3.82993	20.49383	0.853
Asta 186 (104-74)	216	massimi	474.00	-2.02612	0.13071	60.98566	4.04244	172.0589	0.543
Asta 186 (104-74)	216	minimi	0.00	-2.02612	0.13071	-52.33273	-5.30297	-229.67011	1.162
Asta 186 (104-74)	216	minimi	237.00	-2.02612	0.13071	-77.10836	-4.87915	-0.18455	0.853
Asta 186 (104-74)	216	minimi	474.00	-2.02612	0.13071	-100.67344	-4.66664	-190.43857	0.543
Asta 187 (84-79)	217	massimi	0.00	-28.067	-2.45051	90.99311	2.75124	32.92789	-7.353
Asta 187 (84-79)	217	massimi	307.50	-28.067	-2.45051	21.05275	2.75124	72.61321	0.183
Asta 187 (84-79)	217	massimi	615.00	-28.067	-2.45051	-48.8876	2.75124	29.81579	7.718
Asta 187 (84-79)	217	minimi	0.00	-28.067	-2.45051	35.09012	-5.95848	-99.69454	-7.353
Asta 187 (84-79)	217	minimi	307.50	-28.067	-2.45051	-34.85023	-5.95848	33.25949	0.183
Asta 187 (84-79)	217	minimi	615.00	-28.067	-2.45051	-104.79058	-5.95848	-181.4369	7.718
Asta 188 (79-109)	218	massimi	0.00	-6.68431	1.87627	81.78141	5.86488	153.31417	4.667
Asta 188 (79-109)	218	massimi	237.00	-6.68431	1.87627	60.80122	5.86488	17.32024	0.22
Asta 188 (79-109)	218	massimi	474.00	-6.68431	1.87627	39.82104	5.86488	136.40613	-4.226
Asta 188 (79-109)	218	minimi	0.00	-6.68431	1.87627	-53.53341	-2.70891	-151.79294	4.667
Asta 188 (79-109)	218	minimi	237.00	-6.68431	1.87627	-74.5136	-2.70891	1.4257	0.22
Asta 188 (79-109)	218	minimi	474.00	-6.68431	1.87627	-95.49378	-2.70891	-199.88156	-4.226
Asta 189 (114-84)	219	massimi	0.00	-61.71872	0.63109	37.90768	3.08136	61.14782	-0.177
Asta 189 (114-84)	219	massimi	237.00	-61.71872	0.63109	29.4053	3.08136	13.64774	-1.672
Asta 189 (114-84)	219	massimi	474.00	-61.71872	0.63109	20.90293	3.08136	69.63846	-3.168
Asta 189 (114-84)	219	minimi	0.00	-61.71872	0.63109	-16.71754	-0.48298	-69.76629	-0.177
Asta 189 (114-84)	219	minimi	237.00	-61.71872	0.63109	-25.21991	-0.48298	7.8038	-1.672
Asta 189 (114-84)	219	minimi	474.00	-61.71872	0.63109	-33.72229	-0.48298	-58.41818	-3.168
Asta 190 (119-104)	220	massimi	0.00	15.691	-2.61107	33.92167	20.40023	57.22186	-4.822
Asta 190 (119-104)	220	massimi	173.00	15.691	-2.61107	14.94068	20.74554	39.42798	-0.305
Asta 190 (119-104)	220	massimi	346.00	15.691	-2.61107	-2.55916	20.86759	49.31098	4.212
Asta 190 (119-104)	220	minimi	0.00	15.691	-2.61107	-57.50917	-1.59125	-8.98925	-4.822
Asta 190 (119-104)	220	minimi	173.00	15.691	-2.61107	-76.49015	-1.24594	-65.26592	-0.305
Asta 190 (119-104)	220	minimi	346.00	15.691	-2.61107	-93.99	-1.12389	-212.33129	4.212
Asta 191 (114-109)	221	massimi	0.00	-26.14894	-3.94382	86.47206	3.03305	41.88467	-13.064
Asta 191 (114-109)	221	massimi	307.50	-26.14894	-3.94382	25.9781	3.03305	69.1294	-0.936

Asta 191 (114-109)	221	massimi	615.00	-26.14894	-3.94382	-34.51586	3.03305	55.91376	11.191
Asta 191 (114-109)	221	minimi	0.00	-26.14894	-3.94382	25.05641	-9.62726	-103.85425	-13.064
Asta 191 (114-109)	221	minimi	307.50	-26.14894	-3.94382	-35.43755	-9.62726	25.83216	-0.936
Asta 191 (114-109)	221	minimi	615.00	-26.14894	-3.94382	-95.93151	-9.62726	-176.05893	11.191
Asta 192 (109-124)	222	massimi	0.00	26.05315	3.29253	97.28827	9.00609	36.64707	8.15
Asta 192 (109-124)	222	massimi	127.00	26.05315	3.29253	77.39789	9.00609	25.20584	3.969
Asta 192 (109-124)	222	massimi	254.00	26.05315	3.29253	57.5075	9.00609	23.09527	-0.213
Asta 192 (109-124)	222	minimi	0.00	26.05315	3.29253	0.47488	-14.75057	-191.2127	8.15
Asta 192 (109-124)	222	minimi	127.00	26.05315	3.29253	-19.4155	-14.75057	-80.87306	3.969
Asta 192 (109-124)	222	minimi	254.00	26.05315	3.29253	-39.30588	-14.75057	-30.38564	-0.213
Asta 193 (144-114)	223	massimi	0.00	-31.22844	7.29123	52.3803	3.17605	33.9196	10.737
Asta 193 (144-114)	223	massimi	165.00	-31.22844	7.29123	47.73967	3.17605	6.20736	-1.293
Asta 193 (144-114)	223	massimi	330.00	-31.22844	7.29123	43.09905	3.17605	78.78074	-13.324
Asta 193 (144-114)	223	minimi	0.00	-31.22844	7.29123	-16.12778	-5.13055	-78.79869	10.737
Asta 193 (144-114)	223	minimi	165.00	-31.22844	7.29123	-20.76841	-5.13055	1.07317	-1.293
Asta 193 (144-114)	223	minimi	330.00	-31.22844	7.29123	-25.40903	-5.13055	-34.65466	-13.324
Asta 194 (124-119)	224	massimi	0.00	5.93137	-2.00209	58.55394	-2.07666	43.37336	-8.604
Asta 194 (124-119)	224	massimi	330.00	5.93137	-2.00209	25.53909	-2.07666	49.06518	-1.997
Asta 194 (124-119)	224	massimi	660.00	5.93137	-2.00209	-7.47576	-2.07666	61.82629	4.61
Asta 194 (124-119)	224	minimi	0.00	5.93137	-2.00209	16.98924	-6.47898	-107.49845	-8.604
Asta 194 (124-119)	224	minimi	330.00	5.93137	-2.00209	-16.02561	-6.47898	27.15321	-1.997
Asta 194 (124-119)	224	minimi	660.00	5.93137	-2.00209	-49.04046	-6.47898	-63.16242	4.61
Asta 195 (119-129)	225	massimi	0.00	-14.75719	2.41771	80.25356	9.07581	26.86214	9.274
Asta 195 (119-129)	225	massimi	330.00	-14.75719	2.41771	21.04683	8.51993	64.22285	1.295

129)									
Asta 195 (119-129)	225	massimi	660.00	-14.75719	2.41771	-37.09239	8.16151	33.47426	-6.683
Asta 195 (119-129)	225	minimi	0.00	-14.75719	2.41771	41.01035	0.42654	-106.60976	9.274
Asta 195 (119-129)	225	minimi	330.00	-14.75719	2.41771	-18.19638	-0.12935	60.23111	1.295
Asta 195 (119-129)	225	minimi	660.00	-14.75719	2.41771	-76.33561	-0.48776	-92.06037	-6.683
Asta 196 (124-139)	226	massimi	0.00	-9.50709	6.03876	60.75728	-1.28607	57.55742	9.40
Asta 196 (124-139)	226	massimi	165.00	-9.50709	6.03876	32.4859	-1.28607	28.13691	-0.564
Asta 196 (124-139)	226	massimi	330.00	-9.50709	6.03876	4.21452	-1.28607	38.1019	-10.528
Asta 196 (124-139)	226	minimi	0.00	-9.50709	6.03876	-3.84404	-9.72154	-69.27359	9.40
Asta 196 (124-139)	226	minimi	165.00	-9.50709	6.03876	-32.11542	-9.72154	7.40598	-0.564
Asta 196 (124-139)	226	minimi	330.00	-9.50709	6.03876	-60.38679	-9.72154	-48.59549	-10.528
Asta 197 (129-134)	227	massimi	0.00	-8.93737	-1.4971	28.01028	6.29628	49.12363	-6.078
Asta 197 (129-134)	227	massimi	330.00	-8.93737	-1.4971	13.49498	5.7404	20.35544	-1.138
Asta 197 (129-134)	227	massimi	660.00	-8.93737	-1.4971	0.04718	5.38198	27.80313	3.803
Asta 197 (129-134)	227	minimi	0.00	-8.93737	-1.4971	-1.4478	1.80339	-62.47156	-6.078
Asta 197 (129-134)	227	minimi	330.00	-8.93737	-1.4971	-15.9631	1.24751	5.46522	-1.138
Asta 197 (129-134)	227	minimi	660.00	-8.93737	-1.4971	-29.4109	0.88909	-55.09211	3.803
Asta 198 (139-134)	228	massimi	0.00	-5.16761	2.58994	49.54663	8.03561	27.31039	1.159
Asta 198 (139-134)	228	massimi	165.00	-5.16761	2.58994	22.55401	8.03561	24.72533	-3.114
Asta 198 (139-134)	228	massimi	330.00	-5.16761	2.58994	-4.43862	8.03561	39.43145	-7.387
Asta 198 (139-134)	228	minimi	0.00	-5.16761	2.58994	-2.39462	-0.72585	-35.14253	1.159
Asta 198 (139-134)	228	minimi	165.00	-5.16761	2.58994	-29.38725	-0.72585	0.70551	-3.114
Asta 198 (139-134)	228	minimi	330.00	-5.16761	2.58994	-56.37987	-0.72585	-69.8133	-7.387
Asta 199 (134-159)	229	massimi	0.00	-9.17344	-1.0982	49.80521	15.47645	36.97463	-3.533
Asta 199	229	massimi	244.50	-9.17344	-1.0982	10.73428	6.84496	23.28543	-0.848

(134-159)									
Asta 199 (134-159)	229	massimi	489.00	-9.17344	-1.0982	-24.50999	1.99314	4.66426	1.837
Asta 199 (134-159)	229	minimi	0.00	-9.17344	-1.0982	13.31104	3.50954	-51.32597	-3.533
Asta 199 (134-159)	229	minimi	244.50	-9.17344	-1.0982	-25.7599	-5.12195	19.59465	-0.848
Asta 199 (134-159)	229	minimi	489.00	-9.17344	-1.0982	-61.00416	-9.97377	-86.25341	1.837
Asta 200 (139-154)	230	massimi	0.00	-5.01373	-2.87522	54.54184	7.1918	40.40155	-10.863
Asta 200 (139-154)	230	massimi	244.50	-5.01373	-2.87522	15.84768	7.1918	32.0958	-3.833
Asta 200 (139-154)	230	massimi	489.00	-5.01373	-2.87522	-22.84648	7.1918	11.74221	3.196
Asta 200 (139-154)	230	minimi	0.00	-5.01373	-2.87522	15.91258	-9.5232	-65.78514	-10.863
Asta 200 (139-154)	230	minimi	244.50	-5.01373	-2.87522	-22.78158	-9.5232	20.17446	-3.833
Asta 200 (139-154)	230	minimi	489.00	-5.01373	-2.87522	-61.47574	-9.5232	-71.03255	3.196
Asta 201 (149-144)	231	massimi	0.00	-6.53105	-0.06997	46.42737	0.31336	47.92646	2.594
Asta 201 (149-144)	231	massimi	165.00	-6.53105	-0.06997	40.50799	0.31336	3.67258	2.709
Asta 201 (149-144)	231	massimi	330.00	-6.53105	-0.06997	34.58862	0.31336	55.52425	2.825
Asta 201 (149-144)	231	minimi	0.00	-6.53105	-0.06997	-24.10537	-2.78408	-78.16356	2.594
Asta 201 (149-144)	231	minimi	165.00	-6.53105	-0.06997	-30.02475	-2.78408	-6.84535	2.709
Asta 201 (149-144)	231	minimi	330.00	-6.53105	-0.06997	-35.94412	-2.78408	-51.16663	2.825
Asta 202 (154-144)	232	massimi	0.00	1.64307	-1.57595	53.13831	6.54327	11.92389	2.414
Asta 202 (154-144)	232	massimi	190.00	1.64307	-1.57595	23.06923	6.54327	23.06066	5.409
Asta 202 (154-144)	232	massimi	380.00	1.64307	-1.57595	-6.99985	6.54327	38.32021	8.403
Asta 202 (154-144)	232	minimi	0.00	1.64307	-1.57595	9.96195	-13.41788	-49.34758	2.414
Asta 202 (154-144)	232	minimi	190.00	1.64307	-1.57595	-20.10713	-13.41788	2.27489	5.409
Asta 202 (154-144)	232	minimi	380.00	1.64307	-1.57595	-50.17621	-13.41788	-64.48792	8.403
Asta 203 (159-149)	233	massimi	0.00	-3.22081	-0.26477	52.95894	4.9704	2.69729	1.415

Asta 203 (159-149)	233	massimi	190.00	-3.22081	-0.26477	30.73561	4.62785	15.8209	1.919
Asta 203 (159-149)	233	massimi	380.00	-3.22081	-0.26477	9.51531	4.45964	53.38683	2.422
Asta 203 (159-149)	233	minimi	0.00	-3.22081	-0.26477	5.21491	-12.88859	-64.44615	1.415
Asta 203 (159-149)	233	minimi	190.00	-3.22081	-0.26477	-17.00843	-13.23114	-9.5814	1.919
Asta 203 (159-149)	233	minimi	380.00	-3.22081	-0.26477	-38.22873	-13.39934	-61.70187	2.422
Asta 204 (4-3)	234	massimi	0.00	-116.4833	180.11321	90.29932	11.16682	104.16773	228.337
Asta 204 (4-3)	234	massimi	66.00	-119.4533	180.11321	90.29932	11.16682	57.02009	115.947
Asta 204 (4-3)	234	massimi	132.00	-122.4233	180.11321	90.29932	11.16682	22.46471	55.997
Asta 204 (4-3)	234	minimi	0.00	-367.91166	-133.16524	-71.96163	-10.69177	-134.81692	-155.418
Asta 204 (4-3)	234	minimi	66.00	-370.88166	-133.16524	-71.96163	-10.69177	-75.56641	-74.013
Asta 204 (4-3)	234	minimi	132.00	-373.85166	-133.16524	-71.96163	-10.69177	-28.90814	-45.049
Asta 205 (9-8)	235	massimi	0.00	-122.89726	130.3272	49.20798	12.25001	42.88313	152.635
Asta 205 (9-8)	235	massimi	66.00	-125.86726	130.3272	49.20798	12.25001	30.71784	73.07
Asta 205 (9-8)	235	massimi	132.00	-128.83726	130.3272	49.20798	12.25001	19.28093	42.209
Asta 205 (9-8)	235	minimi	0.00	-384.15987	-184.29977	-19.17935	-9.60858	-94.27679	-232.666
Asta 205 (9-8)	235	minimi	66.00	-387.12987	-184.29977	-19.17935	-9.60858	-62.2926	-117.479
Asta 205 (9-8)	235	minimi	132.00	-390.09987	-184.29977	-19.17935	-9.60858	-31.03681	-50.996
Asta 206 (14-13)	236	massimi	0.00	-203.78897	102.83659	139.25246	11.89889	185.43411	112.631
Asta 206 (14-13)	236	massimi	66.00	-206.75897	102.83659	139.25246	11.89889	100.27644	53.773
Asta 206 (14-13)	236	massimi	132.00	-209.72897	102.83659	139.25246	11.89889	31.11053	11.566
Asta 206 (14-13)	236	minimi	0.00	-357.05725	-38.86596	-132.50699	-9.95971	-196.53462	-60.007
Asta 206 (14-13)	236	minimi	66.00	-360.02725	-38.86596	-132.50699	-9.95971	-106.92494	-43.37
Asta 206 (14-13)	236	minimi	132.00	-362.99725	-38.86596	-132.50699	-9.95971	-33.30702	-43.384
Asta 207 (19-18)	237	massimi	0.00	-267.34191	70.54124	84.85629	13.25371	103.58097	154.915
Asta 207 (19-18)	237	massimi	66.00	-270.31191	70.54124	84.85629	13.25371	64.1774	120.395
Asta 207 (19-18)	237	massimi	132.00	-273.28191	70.54124	84.85629	13.25371	29.35323	89.02
Asta 207 (19-18)	237	minimi	0.00	-368.05137	-106.87275	-62.45759	-8.60488	-140.37771	-163.753
Asta 207 (19-18)	237	minimi	66.00	-371.02137	-106.87275	-62.45759	-8.60488	-86.191	-105.254
Asta 207 (19-18)	237	minimi	132.00	-373.99137	-106.87275	-62.45759	-8.60488	-36.58368	-49.90
Asta 208 (24-23)	238	massimi	0.00	-21.14712	57.57306	45.78332	2.14691	33.10991	67.673
Asta 208 (24-23)	238	massimi	66.00	-22.17837	57.57306	45.78332	2.14691	18.66453	29.74
Asta 208 (24-23)	238	massimi	132.00	-23.20962	57.57306	45.78332	2.14691	10.97941	-1.518
Asta 208	238	minimi	0.00	-88.85864	-82.8456	-22.517	-1.25436	-69.61557	-112.376

(24-23)									
Asta 208 (24-23)	238	minimi	66.00	-89.88989	-82.8456	-22.517	-1.25436	-39.81441	-57.763
Asta 208 (24-23)	238	minimi	132.00	-90.92114	-82.8456	-22.517	-1.25436	-16.77352	-9.826
Asta 209 (29-28)	239	massimi	0.00	-229.83223	85.12647	139.75962	11.77973	198.2827	99.742
Asta 209 (29-28)	239	massimi	66.00	-232.80223	85.12647	139.75962	11.77973	107.06863	44.644
Asta 209 (29-28)	239	massimi	132.00	-235.77223	85.12647	139.75962	11.77973	31.73729	-0.959
Asta 209 (29-28)	239	minimi	0.00	-347.79311	-26.16212	-141.29994	-10.07887	-195.97492	-47.051
Asta 209 (29-28)	239	minimi	66.00	-350.76311	-26.16212	-141.29994	-10.07887	-105.77745	-30.87
Asta 209 (29-28)	239	minimi	132.00	-353.73311	-26.16212	-141.29994	-10.07887	-31.46273	-24.183
Asta 210 (34-33)	240	massimi	0.00	-334.56421	92.0938	81.36437	12.14632	121.61453	154.159
Asta 210 (34-33)	240	massimi	66.00	-337.53421	92.0938	81.36437	12.14632	73.41831	99.909
Asta 210 (34-33)	240	massimi	132.00	-340.50421	92.0938	81.36437	12.14632	30.53134	48.634
Asta 210 (34-33)	240	minimi	0.00	-382.30376	-108.66347	-74.84997	-9.71227	-133.21336	-128.403
Asta 210 (34-33)	240	minimi	66.00	-385.27376	-108.66347	-74.84997	-9.71227	-80.71763	-63.218
Asta 210 (34-33)	240	minimi	132.00	-388.24376	-108.66347	-74.84997	-9.71227	-33.53116	-1.007
Asta 211 (39-38)	241	massimi	0.00	-43.09759	41.82663	62.39797	2.02172	56.29463	43.075
Asta 211 (39-38)	241	massimi	66.00	-44.12884	41.82663	62.39797	2.02172	29.5548	15.484
Asta 211 (39-38)	241	massimi	132.00	-45.16009	41.82663	62.39797	2.02172	10.77681	-2.455
Asta 211 (39-38)	241	minimi	0.00	-121.02942	-75.8962	-41.31916	-1.37955	-89.71666	-102.84
Asta 211 (39-38)	241	minimi	66.00	-122.06067	-75.8962	-41.31916	-1.37955	-49.06482	-52.764
Asta 211 (39-38)	241	minimi	132.00	-123.09192	-75.8962	-41.31916	-1.37955	-16.37481	-12.338
Asta 212 (44-43)	242	massimi	0.00	-224.21743	86.16415	139.31325	10.47461	198.73093	88.692
Asta 212 (44-43)	242	massimi	66.00	-227.18743	86.16415	139.31325	10.47461	107.45877	41.354
Asta 212 (44-43)	242	massimi	132.00	-230.15743	86.16415	139.31325	10.47461	31.89048	9.297
Asta 212 (44-43)	242	minimi	0.00	-353.18874	-28.36845	-141.52738	-11.38399	-195.33841	-35.61
Asta 212 (44-43)	242	minimi	66.00	-356.15874	-28.36845	-141.52738	-11.38399	-105.52758	-26.417
Asta 212 (44-43)	242	minimi	132.00	-359.12874	-28.36845	-141.52738	-11.38399	-31.42061	-32.505
Asta 213 (49-48)	243	massimi	0.00	-338.84771	84.14001	78.61974	11.16231	127.6869	143.296
Asta 213 (49-48)	243	massimi	66.00	-341.81771	84.14001	78.61974	11.16231	77.41486	94.418
Asta 213 (49-48)	243	massimi	132.00	-344.78771	84.14001	78.61974	11.16231	31.75018	51.431
Asta 213 (49-48)	243	minimi	0.00	-387.64741	-94.17266	-78.5364	-10.69629	-128.83192	-107.485
Asta 213 (49-48)	243	minimi	66.00	-390.61741	-94.17266	-78.5364	-10.69629	-78.50488	-51.984
Asta 213 (49-48)	243	minimi	132.00	-393.58741	-94.17266	-78.5364	-10.69629	-32.78519	-2.377
Asta 214 (54-53)	244	massimi	0.00	-48.33225	39.77094	146.22715	3.81467	79.77511	37.338
Asta 214 (54-53)	244	massimi	66.00	-49.3635	39.77094	146.22715	3.81467	20.42216	11.152
Asta 214	244	massimi	132.00	-50.39475	39.77094	146.22715	3.81467	74.48281	8.927

(54-53)									
Asta 214 (54-53)	244	minimi	0.00	-119.31863	-80.0858	-90.03217	0.4134	-118.58856	-96.907
Asta 214 (54-53)	244	minimi	66.00	-120.34987	-80.0858	-90.03217	0.4134	-22.14692	-44.113
Asta 214 (54-53)	244	minimi	132.00	-121.38112	-80.0858	-90.03217	0.4134	-39.11889	-15.28
Asta 215 (74-73)	245	massimi	0.00	-215.13274	86.80582	134.61718	10.37436	198.80522	83.913
Asta 215 (74-73)	245	massimi	66.00	-218.10274	86.80582	134.61718	10.37436	108.95881	39.69
Asta 215 (74-73)	245	massimi	132.00	-221.07274	86.80582	134.61718	10.37436	32.77345	13.392
Asta 215 (74-73)	245	minimi	0.00	-353.06379	-26.70305	-141.15055	-11.48423	-188.39301	-28.108
Asta 215 (74-73)	245	minimi	66.00	-356.03379	-26.70305	-141.15055	-11.48423	-102.85862	-23.552
Asta 215 (74-73)	245	minimi	132.00	-359.00379	-26.70305	-141.15055	-11.48423	-30.98527	-36.922
Asta 216 (79-78)	246	massimi	0.00	-314.28256	81.77919	72.85455	10.19218	134.74964	141.055
Asta 216 (79-78)	246	massimi	66.00	-317.25256	81.77919	72.85455	10.19218	82.69699	99.862
Asta 216 (79-78)	246	massimi	132.00	-320.22256	81.77919	72.85455	10.19218	33.34031	69.462
Asta 216 (79-78)	246	minimi	0.00	-392.72276	-84.54518	-82.75825	-11.66642	-119.83062	-90.912
Asta 216 (79-78)	246	minimi	66.00	-395.69276	-84.54518	-82.75825	-11.66642	-74.31441	-47.894
Asta 216 (79-78)	246	minimi	132.00	-398.66276	-84.54518	-82.75825	-11.66642	-31.49417	-15.668
Asta 217 (84-83)	247	massimi	0.00	-39.45697	36.85445	161.00939	2.2222	111.76417	32.489
Asta 217 (84-83)	247	massimi	66.00	-40.48822	36.85445	161.00939	2.2222	11.67732	9.091
Asta 217 (84-83)	247	massimi	132.00	-41.51947	36.85445	161.00939	2.2222	96.1023	24.144
Asta 217 (84-83)	247	minimi	0.00	-115.62287	-94.75303	-151.70037	-1.17907	-116.43847	-100.992
Asta 217 (84-83)	247	minimi	66.00	-116.65412	-94.75303	-151.70037	-1.17907	-10.20767	-39.38
Asta 217 (84-83)	247	minimi	132.00	-117.68537	-94.75303	-151.70037	-1.17907	-88.4887	-16.221
Asta 218 (104-103)	248	massimi	0.00	-110.77783	134.66259	76.62878	11.80147	133.58227	176.31
Asta 218 (104-103)	248	massimi	66.00	-113.74783	134.66259	76.62878	11.80147	76.78826	90.223
Asta 218 (104-103)	248	massimi	132.00	-116.71783	134.66259	76.62878	11.80147	31.35623	37.605
Asta 218 (104-103)	248	minimi	0.00	-373.90051	-63.44525	-87.43129	-10.05712	-116.02374	-99.621
Asta 218 (104-103)	248	minimi	66.00	-376.87051	-63.44525	-87.43129	-10.05712	-66.35938	-60.538
Asta 218 (104-103)	248	minimi	132.00	-379.84051	-63.44525	-87.43129	-10.05712	-28.057	-54.922
Asta 219 (109-108)	249	massimi	0.00	-205.58407	127.66048	25.89484	10.00508	93.1531	203.048
Asta 219 (109-108)	249	massimi	66.00	-208.55407	127.66048	25.89484	10.00508	63.08837	122.514
Asta 219 (109-108)	249	massimi	132.00	-211.52407	127.66048	25.89484	10.00508	33.28259	58.901

Asta 219 (109-108)	249	minimi	0.00	-419.57316	-135.14697	-45.72589	-11.85351	-63.08996	-172.661
Asta 219 (109-108)	249	minimi	66.00	-422.54316	-135.14697	-45.72589	-11.85351	-46.11372	-87.185
Asta 219 (109-108)	249	minimi	132.00	-425.51316	-135.14697	-45.72589	-11.85351	-29.39643	-18.631
Asta 220 (114-113)	250	massimi	0.00	-29.33619	35.39838	127.75437	1.6172	138.83472	39.38
Asta 220 (114-113)	250	massimi	66.00	-30.36744	35.39838	127.75437	1.6172	9.1034	16.304
Asta 220 (114-113)	250	massimi	132.00	-31.39869	35.39838	127.75437	1.6172	75.95841	2.455
Asta 220 (114-113)	250	minimi	0.00	-85.69242	-74.37598	-196.62257	-1.78407	-92.68438	-96.797
Asta 220 (114-113)	250	minimi	66.00	-86.72367	-74.37598	-196.62257	-1.78407	-8.40608	-47.995
Asta 220 (114-113)	250	minimi	132.00	-87.75492	-74.37598	-196.62257	-1.78407	-120.7141	-8.421
Asta 221 (119-118)	251	massimi	0.00	-55.04221	76.48478	50.80739	1.85964	30.69558	103.618
Asta 221 (119-118)	251	massimi	66.00	-56.07346	76.48478	50.80739	1.85964	16.14206	53.151
Asta 221 (119-118)	251	massimi	132.00	-57.10471	76.48478	50.80739	1.85964	6.55564	7.574
Asta 221 (119-118)	251	minimi	0.00	-99.15043	-52.13011	-22.51098	-1.54162	-83.0786	-63.552
Asta 221 (119-118)	251	minimi	66.00	-100.18168	-52.13011	-22.51098	-1.54162	-49.84944	-29.159
Asta 221 (119-118)	251	minimi	132.00	-101.21293	-52.13011	-22.51098	-1.54162	-21.58739	0.344
Asta 222 (124-123)	252	massimi	0.00	-23.96226	39.94588	38.54278	0.69155	43.75857	45.684
Asta 222 (124-123)	252	massimi	66.00	-24.99351	39.94588	38.54278	0.69155	24.1167	19.338
Asta 222 (124-123)	252	massimi	132.00	-26.02475	39.94588	38.54278	0.69155	9.94029	-0.447
Asta 222 (124-123)	252	minimi	0.00	-90.29254	-68.11192	-30.11784	-2.70971	-58.2859	-91.511
Asta 222 (124-123)	252	minimi	66.00	-91.32379	-68.11192	-30.11784	-2.70971	-33.08358	-46.576
Asta 222 (124-123)	252	minimi	132.00	-92.35504	-68.11192	-30.11784	-2.70971	-13.3467	-8.201
Asta 223 (129-128)	253	massimi	0.00	-49.63012	48.20893	27.83924	1.09555	87.62966	70.208
Asta 223 (129-128)	253	massimi	66.00	-50.66137	48.20893	27.83924	1.09555	52.07383	38.405
Asta 223 (129-128)	253	massimi	132.00	-51.69262	48.20893	27.83924	1.09555	22.20201	7.018

128)									
Asta 223 (129-128)	253	minimi	0.00	-90.36037	-35.1696	-54.35941	-2.30572	-37.14322	-49.187
Asta 223 (129-128)	253	minimi	66.00	-91.39162	-35.1696	-54.35941	-2.30572	-19.09071	-25.989
Asta 223 (129-128)	253	minimi	132.00	-92.42287	-35.1696	-54.35941	-2.30572	-6.72219	-3.208
Asta 224 (134-133)	254	massimi	0.00	-54.90604	56.68435	27.349	1.64921	57.63781	77.532
Asta 224 (134-133)	254	massimi	66.00	-55.93729	56.68435	27.349	1.64921	32.4996	40.13
Asta 224 (134-133)	254	massimi	132.00	-56.96854	56.68435	27.349	1.64921	13.20298	3.95
Asta 224 (134-133)	254	minimi	0.00	-98.39241	-61.39209	-38.48202	-1.75206	-39.97088	-83.16
Asta 224 (134-133)	254	minimi	66.00	-99.42366	-61.39209	-38.48202	-1.75206	-22.18047	-42.651
Asta 224 (134-133)	254	minimi	132.00	-100.45491	-61.39209	-38.48202	-1.75206	-10.23164	-3.363
Asta 225 (139-138)	255	massimi	0.00	-70.46317	46.25742	44.73562	0.87669	67.86897	63.17
Asta 225 (139-138)	255	massimi	66.00	-71.49442	46.25742	44.73562	0.87669	36.67679	32.654
Asta 225 (139-138)	255	massimi	132.00	-72.52567	46.25742	44.73562	0.87669	13.1442	4.285
Asta 225 (139-138)	255	minimi	0.00	-103.31554	-43.12758	-47.66414	-2.52457	-62.87613	-56.103
Asta 225 (139-138)	255	minimi	66.00	-104.34679	-43.12758	-47.66414	-2.52457	-33.61677	-27.654
Asta 225 (139-138)	255	minimi	132.00	-105.37804	-43.12758	-47.66414	-2.52457	-12.01701	-1.35
Asta 226 (144-143)	256	massimi	0.00	-17.43011	36.07348	99.02686	2.19098	120.83606	42.556
Asta 226 (144-143)	256	massimi	66.00	-18.46136	36.07348	99.02686	2.19098	20.83349	18.748
Asta 226 (144-143)	256	massimi	132.00	-19.49261	36.07348	99.02686	2.19098	52.26027	-4.535
Asta 226 (144-143)	256	minimi	0.00	-77.35398	-47.50975	-151.57355	-1.21028	-78.47397	-68.207
Asta 226 (144-143)	256	minimi	66.00	-78.38523	-47.50975	-151.57355	-1.21028	-13.15222	-36.852
Asta 226 (144-143)	256	minimi	132.00	-79.41648	-47.50975	-151.57355	-1.21028	-79.25982	-6.02
Asta 227 (149-148)	257	massimi	0.00	12.99532	37.80667	30.14591	1.44664	64.92391	51.815
Asta 227 (149-148)	257	massimi	66.00	11.96407	37.80667	30.14591	1.44664	36.43049	26.876
Asta 227	257	massimi	132.00	10.93282	37.80667	30.14591	1.44664	15.00251	2.497

(149-148)									
Asta 227 (149-148)	257	minimi	0.00	-64.03074	-44.10834	-43.73755	-1.79104	-43.62653	-62.601
Asta 227 (149-148)	257	minimi	66.00	-65.06199	-44.10834	-43.73755	-1.79104	-24.10358	-33.503
Asta 227 (149-148)	257	minimi	132.00	-66.09324	-44.10834	-43.73755	-1.79104	-11.64609	-4.964
Asta 228 (154-153)	258	massimi	0.00	-70.19242	48.43728	8.56251	2.48272	20.5409	61.069
Asta 228 (154-153)	258	massimi	66.00	-71.22367	48.43728	8.56251	2.48272	13.40996	29.114
Asta 228 (154-153)	258	massimi	132.00	-72.25492	48.43728	8.56251	2.48272	8.34312	0.876
Asta 228 (154-153)	258	minimi	0.00	-77.23007	-61.75089	-11.16105	-0.91854	-15.99769	-82.936
Asta 228 (154-153)	258	minimi	66.00	-78.26132	-61.75089	-11.16105	-0.91854	-10.58178	-42.194
Asta 228 (154-153)	258	minimi	132.00	-79.29257	-61.75089	-11.16105	-0.91854	-7.22998	-5.168
Asta 229 (159-158)	259	massimi	0.00	-58.22515	50.68764	5.61676	2.04029	14.73536	66.434
Asta 229 (159-158)	259	massimi	66.00	-59.2564	50.68764	5.61676	2.04029	10.38389	32.991
Asta 229 (159-158)	259	massimi	132.00	-60.28765	50.68764	5.61676	2.04029	8.18975	1.08
Asta 229 (159-158)	259	minimi	0.00	-85.46285	-62.5929	-7.28362	-1.19739	-14.7978	-86.274
Asta 229 (159-158)	259	minimi	66.00	-86.4941	-62.5929	-7.28362	-1.19739	-11.54647	-44.974
Asta 229 (159-158)	259	minimi	132.00	-87.52535	-62.5929	-7.28362	-1.19739	-10.45245	-5.206
Asta 230 (5-10)	260	massimi	0.00	-64.12013	0.54997	191.53456	10.99796	356.83209	3.188
Asta 230 (5-10)	260	massimi	630.00	-64.12013	0.54997	75.68387	10.99796	232.80678	-0.277
Asta 230 (5-10)	260	massimi	1260.00	-64.12013	0.54997	-40.16683	10.99796	344.60328	-3.742
Asta 230 (5-10)	260	minimi	0.00	-64.12013	0.54997	38.18093	-9.28793	-609.01345	3.188
Asta 230 (5-10)	260	minimi	630.00	-64.12013	0.54997	-77.66976	-9.28793	232.36011	-0.277
Asta 230 (5-10)	260	minimi	1260.00	-64.12013	0.54997	-193.52046	-9.28793	-621.80695	-3.742
Asta 231 (15-5)	261	massimi	0.00	-8.80993	-1.61298	36.8638	-1.26311	78.2776	-3.501
Asta 231 (15-5)	261	massimi	237.00	-8.80993	-1.61298	31.5313	-1.26311	6.17182	0.322
Asta 231 (15-5)	261	massimi	474.00	-8.80993	-1.61298	26.1988	-1.26311	74.57701	4.145
Asta 231 (15-5)	261	minimi	0.00	-8.80993	-1.61298	-31.06788	-3.32771	-74.88185	-3.501
Asta 231 (15-5)	261	minimi	237.00	-8.80993	-1.61298	-36.40039	-3.32771	-1.67778	0.322
Asta 231 (15-5)	261	minimi	474.00	-8.80993	-1.61298	-41.73289	-3.32771	-94.26074	4.145

Asta 232 (5-165)	262	massimi	0.00	0.00	0.00	26.55307	0.00	-14.66508	0.00
Asta 232 (5-165)	262	massimi	65.00	0.00	0.00	13.94177	0.00	-3.23387	0.00
Asta 232 (5-165)	262	massimi	130.00	0.00	0.00	1.33047	0.00	0.00	0.00
Asta 232 (5-165)	262	minimi	0.00	0.00	0.00	23.89213	0.00	-18.1243	0.00
Asta 232 (5-165)	262	minimi	65.00	0.00	0.00	11.28083	0.00	-4.96348	0.00
Asta 232 (5-165)	262	minimi	130.00	0.00	0.00	-1.33047	0.00	0.00	0.00
Asta 233 (20-10)	263	massimi	0.00	-11.68797	-1.26828	34.73158	2.17595	86.63146	-2.729
Asta 233 (20-10)	263	massimi	237.00	-11.68797	-1.26828	29.39907	2.17595	6.16299	0.277
Asta 233 (20-10)	263	massimi	474.00	-11.68797	-1.26828	24.06657	2.17595	69.51185	3.283
Asta 233 (20-10)	263	minimi	0.00	-11.68797	-1.26828	-34.69892	0.6284	-69.84054	-2.729
Asta 233 (20-10)	263	minimi	237.00	-11.68797	-1.26828	-40.03142	0.6284	-1.93269	0.277
Asta 233 (20-10)	263	minimi	474.00	-11.68797	-1.26828	-45.36392	0.6284	-103.11823	3.283
Asta 234 (10-175)	264	massimi	0.00	0.00	0.00	26.59725	0.00	-14.60765	0.00
Asta 234 (10-175)	264	massimi	65.00	0.00	0.00	13.98595	0.00	-3.20515	0.00
Asta 234 (10-175)	264	massimi	130.00	0.00	0.00	1.37465	0.00	0.00	0.00
Asta 234 (10-175)	264	minimi	0.00	0.00	0.00	23.84795	0.00	-18.18173	0.00
Asta 234 (10-175)	264	minimi	65.00	0.00	0.00	11.23665	0.00	-4.99219	0.00
Asta 234 (10-175)	264	minimi	130.00	0.00	0.00	-1.37465	0.00	0.00	0.00
Asta 235 (15-20)	265	massimi	0.00	-32.598	0.95612	244.65185	9.66073	253.49905	5.811
Asta 235 (15-20)	265	massimi	630.00	-32.598	0.95612	63.79145	9.66073	424.76343	-0.213
Asta 235 (15-20)	265	massimi	1260.00	-32.598	0.95612	-117.06894	9.66073	256.93026	-6.236
Asta 235 (15-20)	265	minimi	0.00	-32.598	0.95612	114.95861	-7.39667	-546.84236	5.811
Asta 235 (15-20)	265	minimi	630.00	-32.598	0.95612	-65.90179	-7.39667	408.01864	-0.213
Asta 235 (15-20)	265	minimi	1260.00	-32.598	0.95612	-246.76219	-7.39667	-576.8638	-6.236
Asta 236 (30-15)	266	massimi	0.00	-13.28992	-1.42866	40.7817	0.32558	77.3542	-3.677
Asta 236 (30-15)	266	massimi	237.00	-13.28992	-1.42866	35.4492	0.32558	2.94457	-0.291
Asta 236 (30-15)	266	massimi	474.00	-13.28992	-1.42866	30.1167	0.32558	80.49356	3.095
Asta 236 (30-15)	266	minimi	0.00	-13.28992	-1.42866	-29.04102	-1.07318	-87.53601	-3.677
Asta 236 (30-15)	266	minimi	237.00	-13.28992	-1.42866	-34.37352	-1.07318	2.061	-0.291
Asta 236 (30-15)	266	minimi	474.00	-13.28992	-1.42866	-39.70602	-1.07318	-85.57665	3.095
Asta 237 (15-170)	267	massimi	0.00	0.00	0.00	38.76071	0.00	-22.80666	0.00
Asta 237 (15-170)	267	massimi	65.00	0.00	0.00	19.99261	0.00	-5.3037	0.00
Asta 237 (15-170)	267	massimi	130.00	0.00	0.00	1.22452	0.00	0.00	0.00
Asta 237 (15-170)	267	minimi	0.00	0.00	0.00	36.31168	0.00	-25.9904	0.00
Asta 237 (15-170)	267	minimi	65.00	0.00	0.00	17.54358	0.00	-6.89557	0.00

Asta 237 (15-170)	267	minimi	130.00	0.00	0.00	-1.22452	0.00	0.00	0.00
Asta 238 (35-20)	268	massimi	0.00	-19.53349	-1.20971	38.35524	0.58627	78.44457	-3.271
Asta 238 (35-20)	268	massimi	237.00	-19.53349	-1.20971	33.02274	0.58627	3.27336	-0.404
Asta 238 (35-20)	268	massimi	474.00	-19.53349	-1.20971	27.69024	0.58627	74.79685	2.463
Asta 238 (35-20)	268	minimi	0.00	-19.53349	-1.20971	-29.30055	-0.9779	-81.73156	-3.271
Asta 238 (35-20)	268	minimi	237.00	-19.53349	-1.20971	-34.63305	-0.9779	2.26126	-0.404
Asta 238 (35-20)	268	minimi	474.00	-19.53349	-1.20971	-39.96555	-0.9779	-85.71668	2.463
Asta 239 (20-180)	269	massimi	0.00	0.00	0.00	38.73646	0.00	-22.83819	0.00
Asta 239 (20-180)	269	massimi	65.00	0.00	0.00	19.96836	0.00	-5.31946	0.00
Asta 239 (20-180)	269	massimi	130.00	0.00	0.00	1.20026	0.00	0.00	0.00
Asta 239 (20-180)	269	minimi	0.00	0.00	0.00	36.33594	0.00	-25.95887	0.00
Asta 239 (20-180)	269	minimi	65.00	0.00	0.00	17.56784	0.00	-6.8798	0.00
Asta 239 (20-180)	269	minimi	130.00	0.00	0.00	-1.20026	0.00	0.00	0.00
Asta 240 (30-35)	270	massimi	0.00	-27.51041	0.47717	230.8365	9.3009	184.27365	2.955
Asta 240 (30-35)	270	massimi	630.00	-27.51041	0.47717	49.9761	9.3009	427.91936	-0.051
Asta 240 (30-35)	270	massimi	1260.00	-27.51041	0.47717	-130.8843	9.3009	173.05167	-3.057
Asta 240 (30-35)	270	minimi	0.00	-27.51041	0.47717	127.2111	-8.14816	-456.64745	2.955
Asta 240 (30-35)	270	minimi	630.00	-27.51041	0.47717	-53.6493	-8.14816	415.98622	-0.051
Asta 240 (30-35)	270	minimi	1260.00	-27.51041	0.47717	-234.50969	-8.14816	-491.70773	-3.057
Asta 241 (45-30)	271	massimi	0.00	-12.56967	-0.01211	40.88824	0.63417	77.92518	-0.647
Asta 241 (45-30)	271	massimi	237.00	-12.56967	-0.01211	35.55574	0.63417	2.24304	-0.619
Asta 241 (45-30)	271	massimi	474.00	-12.56967	-0.01211	30.22324	0.63417	80.12064	-0.59
Asta 241 (45-30)	271	minimi	0.00	-12.56967	-0.01211	-29.30047	-0.7566	-88.41359	-0.647
Asta 241 (45-30)	271	minimi	237.00	-12.56967	-0.01211	-34.63297	-0.7566	2.09354	-0.619
Asta 241 (45-30)	271	minimi	474.00	-12.56967	-0.01211	-39.96547	-0.7566	-86.23514	-0.59
Asta 242 (30-190)	272	massimi	0.00	0.00	0.00	38.42582	0.00	-23.24202	0.00
Asta 242 (30-190)	272	massimi	65.00	0.00	0.00	19.65772	0.00	-5.52138	0.00
Asta 242 (30-190)	272	massimi	130.00	0.00	0.00	0.88962	0.00	0.00	0.00
Asta 242 (30-190)	272	minimi	0.00	0.00	0.00	36.64658	0.00	-25.55504	0.00
Asta 242 (30-190)	272	minimi	65.00	0.00	0.00	17.87848	0.00	-6.67789	0.00
Asta 242 (30-190)	272	minimi	130.00	0.00	0.00	-0.88962	0.00	0.00	0.00
Asta 243 (50-35)	273	massimi	0.00	-19.42312	0.16188	39.85622	0.65693	75.68199	-0.169
Asta 243 (50-35)	273	massimi	237.00	-19.42312	0.16188	34.52372	0.65693	2.40148	-0.553
Asta 243 (50-35)	273	massimi	474.00	-19.42312	0.16188	29.19122	0.65693	77.87541	-0.936
Asta 243 (50-35)	273	minimi	0.00	-19.42312	0.16188	-28.30073	-0.78217	-85.76703	-0.169

Asta 243 (50-35)	273	minimi	237.00	-19.42312	0.16188	-33.63323	-0.78217	2.26196	-0.553
Asta 243 (50-35)	273	minimi	474.00	-19.42312	0.16188	-38.96573	-0.78217	-83.73954	-0.936
Asta 244 (35-185)	274	massimi	0.00	0.00	0.00	38.51045	0.00	-23.13201	0.00
Asta 244 (35-185)	274	massimi	65.00	0.00	0.00	19.74235	0.00	-5.46637	0.00
Asta 244 (35-185)	274	massimi	130.00	0.00	0.00	0.97425	0.00	0.00	0.00
Asta 244 (35-185)	274	minimi	0.00	0.00	0.00	36.56195	0.00	-25.66505	0.00
Asta 244 (35-185)	274	minimi	65.00	0.00	0.00	17.79385	0.00	-6.73289	0.00
Asta 244 (35-185)	274	minimi	130.00	0.00	0.00	-0.97425	0.00	0.00	0.00
Asta 245 (45-50)	275	massimi	0.00	-27.51472	-0.32735	225.83263	8.96621	155.46224	-2.208
Asta 245 (45-50)	275	massimi	630.00	-27.51472	-0.32735	44.97223	8.96621	427.77354	-0.146
Asta 245 (45-50)	275	massimi	1260.00	-27.51472	-0.32735	-135.88817	8.96621	141.35298	1.916
Asta 245 (45-50)	275	minimi	0.00	-27.51472	-0.32735	131.79807	-8.50008	-425.29761	-2.208
Asta 245 (45-50)	275	minimi	630.00	-27.51472	-0.32735	-49.06233	-8.50008	416.04397	-0.146
Asta 245 (45-50)	275	minimi	1260.00	-27.51472	-0.32735	-229.92272	-8.50008	-462.72357	1.916
Asta 246 (75-45)	276	massimi	0.00	-10.84163	0.98426	40.54241	0.78087	77.77325	2.038
Asta 246 (75-45)	276	massimi	237.00	-10.84163	0.98426	35.20991	0.78087	2.56737	-0.295
Asta 246 (75-45)	276	massimi	474.00	-10.84163	0.98426	29.87741	0.78087	79.38578	-2.628
Asta 246 (75-45)	276	minimi	0.00	-10.84163	0.98426	-29.15539	-0.53316	-87.50946	2.038
Asta 246 (75-45)	276	minimi	237.00	-10.84163	0.98426	-34.48789	-0.53316	2.04562	-0.295
Asta 246 (75-45)	276	minimi	474.00	-10.84163	0.98426	-39.82039	-0.53316	-85.69963	-2.628
Asta 247 (45-195)	277	massimi	0.00	0.00	0.00	39.79049	0.00	-21.46796	0.00
Asta 247 (45-195)	277	massimi	65.00	0.00	0.00	21.02239	0.00	-4.63435	0.00
Asta 247 (45-195)	277	massimi	130.00	0.00	0.00	2.25429	0.00	0.00	0.00
Asta 247 (45-195)	277	minimi	0.00	0.00	0.00	35.28191	0.00	-27.3291	0.00
Asta 247 (45-195)	277	minimi	65.00	0.00	0.00	16.51381	0.00	-7.56492	0.00
Asta 247 (45-195)	277	minimi	130.00	0.00	0.00	-2.25429	0.00	0.00	0.00
Asta 248 (80-50)	278	massimi	0.00	-17.09405	1.23433	40.28557	0.71918	75.02558	2.619
Asta 248 (80-50)	278	massimi	237.00	-17.09405	1.23433	34.95307	0.71918	2.62153	-0.306
Asta 248 (80-50)	278	massimi	474.00	-17.09405	1.23433	29.62057	0.71918	79.08178	-3.231
Asta 248 (80-50)	278	minimi	0.00	-17.09405	1.23433	-27.97978	-0.7367	-86.5958	2.619
Asta 248 (80-50)	278	minimi	237.00	-17.09405	1.23433	-33.31229	-0.7367	2.33494	-0.306
Asta 248 (80-50)	278	minimi	474.00	-17.09405	1.23433	-38.64479	-0.7367	-82.87468	-3.231
Asta 249 (50-200)	279	massimi	0.00	0.00	0.00	38.04963	0.00	-23.73107	0.00
Asta 249 (50-200)	279	massimi	65.00	0.00	0.00	19.28153	0.00	-5.7659	0.00
Asta 249 (50-200)	279	massimi	130.00	0.00	0.00	0.51343	0.00	0.00	0.00

Asta 249 (50-200)	279	minimi	0.00	0.00	0.00	37.02277	0.00	-25.06599	0.00
Asta 249 (50-200)	279	minimi	65.00	0.00	0.00	18.25467	0.00	-6.43336	0.00
Asta 249 (50-200)	279	minimi	130.00	0.00	0.00	-0.51343	0.00	0.00	0.00
Asta 250 (75-80)	280	massimi	0.00	-29.83991	-0.74236	224.94426	9.1904	141.03525	-4.807
Asta 250 (75-80)	280	massimi	630.00	-29.83991	-0.74236	44.08386	9.1904	423.24766	-0.13
Asta 250 (75-80)	280	massimi	1260.00	-29.83991	-0.74236	-136.77653	9.1904	130.89877	4.547
Asta 250 (75-80)	280	minimi	0.00	-29.83991	-0.74236	133.5437	-9.44577	-424.55952	-4.807
Asta 250 (75-80)	280	minimi	630.00	-29.83991	-0.74236	-47.3167	-9.44577	412.2817	-0.13
Asta 250 (75-80)	280	minimi	1260.00	-29.83991	-0.74236	-228.1771	-9.44577	-455.15679	4.547
Asta 251 (105-75)	281	massimi	0.00	-6.37229	1.48539	43.26348	2.35628	81.34832	4.031
Asta 251 (105-75)	281	massimi	237.00	-6.37229	1.48539	37.93098	2.35628	6.30789	0.511
Asta 251 (105-75)	281	massimi	474.00	-6.37229	1.48539	32.59848	2.35628	81.78819	-3.01
Asta 251 (105-75)	281	minimi	0.00	-6.37229	1.48539	-29.00014	1.39355	-98.00531	4.031
Asta 251 (105-75)	281	minimi	237.00	-6.37229	1.48539	-34.33265	1.39355	-1.79879	0.511
Asta 251 (105-75)	281	minimi	474.00	-6.37229	1.48539	-39.66515	1.39355	-81.38906	-3.01
Asta 252 (75-205)	282	massimi	0.00	0.00	0.00	39.48627	0.00	-21.86344	0.00
Asta 252 (75-205)	282	massimi	65.00	0.00	0.00	20.71817	0.00	-4.83209	0.00
Asta 252 (75-205)	282	massimi	130.00	0.00	0.00	1.95007	0.00	0.00	0.00
Asta 252 (75-205)	282	minimi	0.00	0.00	0.00	35.58613	0.00	-26.93362	0.00
Asta 252 (75-205)	282	minimi	65.00	0.00	0.00	16.81803	0.00	-7.36718	0.00
Asta 252 (75-205)	282	minimi	130.00	0.00	0.00	-1.95007	0.00	0.00	0.00
Asta 253 (110-80)	283	massimi	0.00	-10.08147	1.15328	45.35578	-0.96794	77.00649	2.749
Asta 253 (110-80)	283	massimi	237.00	-10.08147	1.15328	40.02327	-0.96794	6.42389	0.016
Asta 253 (110-80)	283	massimi	474.00	-10.08147	1.15328	34.69077	-0.96794	86.45853	-2.717
Asta 253 (110-80)	283	minimi	0.00	-10.08147	1.15328	-27.1388	-1.90398	-103.25229	2.749
Asta 253 (110-80)	283	minimi	237.00	-10.08147	1.15328	-32.4713	-1.90398	-2.13349	0.016
Asta 253 (110-80)	283	minimi	474.00	-10.08147	1.15328	-37.8038	-1.90398	-76.90799	-2.717
Asta 254 (80-210)	284	massimi	0.00	0.00	0.00	39.45179	0.00	-21.90826	0.00
Asta 254 (80-210)	284	massimi	65.00	0.00	0.00	20.68369	0.00	-4.8545	0.00
Asta 254 (80-210)	284	massimi	130.00	0.00	0.00	1.91559	0.00	0.00	0.00
Asta 254 (80-210)	284	minimi	0.00	0.00	0.00	35.62061	0.00	-26.88879	0.00
Asta 254 (80-210)	284	minimi	65.00	0.00	0.00	16.85251	0.00	-7.34476	0.00
Asta 254 (80-210)	284	minimi	130.00	0.00	0.00	-1.91559	0.00	0.00	0.00
Asta 255 (105-110)	285	massimi	0.00	-52.91577	-0.38609	167.84331	11.19816	175.06594	-1.854
Asta 255	285	massimi	630.00	-52.91577	-0.38609	46.13362	11.19816	258.29017	0.579

(105-110)									
Asta 255 (105-110)	285	massimi	1260.00	-52.91577	-0.38609	-75.57608	11.19816	163.32852	3.011
Asta 255 (105-110)	285	minimi	0.00	-52.91577	-0.38609	72.48368	-10.99414	-417.96739	-1.854
Asta 255 (105-110)	285	minimi	630.00	-52.91577	-0.38609	-49.22601	-10.99414	246.09738	0.579
Asta 255 (105-110)	285	minimi	1260.00	-52.91577	-0.38609	-170.93571	-10.99414	-445.19417	3.011
Asta 256 (105-215)	286	massimi	0.00	0.00	0.00	26.72231	0.00	-14.44507	0.00
Asta 256 (105-215)	286	massimi	65.00	0.00	0.00	14.11101	0.00	-3.12386	0.00
Asta 256 (105-215)	286	massimi	130.00	0.00	0.00	1.49971	0.00	0.00	0.00
Asta 256 (105-215)	286	minimi	0.00	0.00	0.00	23.72289	0.00	-18.34431	0.00
Asta 256 (105-215)	286	minimi	65.00	0.00	0.00	11.11159	0.00	-5.07348	0.00
Asta 256 (105-215)	286	minimi	130.00	0.00	0.00	-1.49971	0.00	0.00	0.00
Asta 257 (110-220)	287	massimi	0.00	0.00	0.00	26.22632	0.00	-15.08985	0.00
Asta 257 (110-220)	287	massimi	65.00	0.00	0.00	13.61502	0.00	-3.44625	0.00
Asta 257 (110-220)	287	massimi	130.00	0.00	0.00	1.00372	0.00	0.00	0.00
Asta 257 (110-220)	287	minimi	0.00	0.00	0.00	24.21888	0.00	-17.69953	0.00
Asta 257 (110-220)	287	minimi	65.00	0.00	0.00	11.60758	0.00	-4.75109	0.00
Asta 257 (110-220)	287	minimi	130.00	0.00	0.00	-1.00372	0.00	0.00	0.00
Asta 258 (5-4)	288	massimi	0.00	-63.86648	220.42961	75.04554	8.48269	79.33845	594.454
Asta 258 (5-4)	288	massimi	145.00	-70.39148	220.42961	75.04554	8.48269	15.06172	275.936
Asta 258 (5-4)	288	massimi	290.00	-76.91648	220.42961	75.04554	8.48269	117.43423	12.01
Asta 258 (5-4)	288	minimi	0.00	-231.82831	-95.41529	-58.52562	-6.56914	-100.7322	-370.471
Asta 258 (5-4)	288	minimi	145.00	-238.35331	-95.41529	-58.52562	-6.56914	-12.50159	-233.224
Asta 258 (5-4)	288	minimi	290.00	-244.8783	-95.41529	-58.52562	-6.56914	-90.92022	-150.568
Asta 259 (10-9)	289	massimi	0.00	-70.18918	92.70551	83.01961	7.06697	72.86939	358.86
Asta 259 (10-9)	289	massimi	145.00	-76.71418	92.70551	83.01961	7.06697	16.5245	225.554
Asta 259 (10-9)	289	massimi	290.00	-83.23918	92.70551	83.01961	7.06697	136.09477	148.497
Asta 259 (10-9)	289	minimi	0.00	-235.24065	-223.48233	-58.54373	-7.98485	-104.76574	-606.078
Asta 259	289	minimi	145.00	-241.76565	-223.48233	-58.54373	-7.98485	-12.93083	-283.146

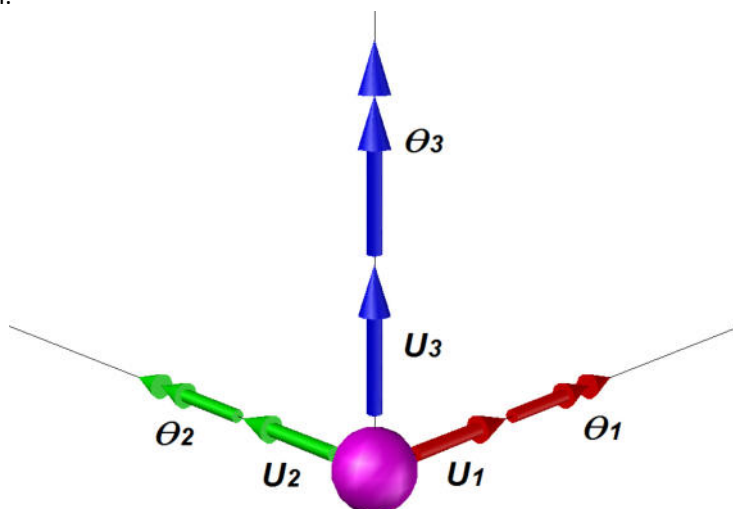
(10-9)									
Asta 259 (10-9)	289	minimi	290.00	-248.29065	-223.48233	-58.54373	-7.98485	-97.01109	-16.463
Asta 260 (15-14)	290	massimi	0.00	-151.64285	147.47579	121.9116	8.31112	158.99923	518.587
Asta 260 (15-14)	290	massimi	145.00	-158.16785	147.47579	121.9116	8.31112	10.47137	305.401
Asta 260 (15-14)	290	massimi	290.00	-164.69285	147.47579	121.9116	8.31112	183.9117	110.908
Asta 260 (15-14)	290	minimi	0.00	-298.42524	-81.91115	-114.86385	-6.74071	-169.74214	-277.884
Asta 260 (15-14)	290	minimi	145.00	-304.95024	-81.91115	-114.86385	-6.74071	-10.99505	-159.767
Asta 260 (15-14)	290	minimi	290.00	-311.47524	-81.91115	-114.86385	-6.74071	-174.21614	-60.342
Asta 261 (20-19)	291	massimi	0.00	-150.00584	109.49233	127.39989	6.48148	147.48211	281.642
Asta 261 (20-19)	291	massimi	145.00	-156.53084	109.49233	127.39989	6.48148	11.98909	123.53
Asta 261 (20-19)	291	massimi	290.00	-163.05584	109.49233	127.39989	6.48148	196.55556	12.964
Asta 261 (20-19)	291	minimi	0.00	-301.20565	-174.5712	-109.7966	-8.57034	-172.92881	-549.582
Asta 261 (20-19)	291	minimi	145.00	-307.73065	-174.5712	-109.7966	-8.57034	-11.91101	-297.106
Asta 261 (20-19)	291	minimi	290.00	-314.25565	-174.5712	-109.7966	-8.57034	-170.95271	-92.176
Asta 262 (30-29)	292	massimi	0.00	-170.66429	117.59457	121.32304	7.65753	171.70143	431.095
Asta 262 (30-29)	292	massimi	145.00	-177.18929	117.59457	121.32304	7.65753	10.94736	260.892
Asta 262 (30-29)	292	massimi	290.00	-183.71429	117.59457	121.32304	7.65753	183.17751	100.969
Asta 262 (30-29)	292	minimi	0.00	-283.93862	-59.74065	-123.7179	-7.3943	-168.78685	-208.143
Asta 262 (30-29)	292	minimi	145.00	-290.46362	-59.74065	-123.7179	-7.3943	-11.50533	-121.829
Asta 262 (30-29)	292	minimi	290.00	-296.98862	-59.74065	-123.7179	-7.3943	-187.20803	-45.794
Asta 263 (35-34)	293	massimi	0.00	-178.16199	82.47873	120.93453	6.80331	161.88745	197.406
Asta 263 (35-34)	293	massimi	145.00	-184.68699	82.47873	120.93453	6.80331	12.26768	78.059
Asta 263 (35-34)	293	massimi	290.00	-191.21199	82.47873	120.93453	6.80331	187.42835	-23.915
Asta 263 (35-34)	293	minimi	0.00	-281.13361	-134.75637	-120.20093	-8.24852	-163.31187	-467.531
Asta 263 (35-34)	293	minimi	145.00	-287.65861	-134.75637	-120.20093	-8.24852	-12.62838	-272.382
Asta 263 (35-34)	293	minimi	290.00	-294.18361	-134.75637	-120.20093	-8.24852	-186.72534	-94.606
Asta 264 (45-44)	294	massimi	0.00	-165.39348	110.29208	121.18261	7.75387	172.1871	401.077
Asta 264 (45-44)	294	massimi	145.00	-171.91848	110.29208	121.18261	7.75387	11.03994	241.715
Asta 264 (45-44)	294	massimi	290.00	-178.44348	110.29208	121.18261	7.75387	183.07832	89.822
Asta 264 (45-44)	294	minimi	0.00	-288.84037	-53.26989	-123.98399	-7.29796	-168.47866	-180.409
Asta 264 (45-44)	294	minimi	145.00	-295.36537	-53.26989	-123.98399	-7.29796	-11.3935	-103.729
Asta 264 (45-44)	294	minimi	290.00	-301.89037	-53.26989	-123.98399	-7.29796	-187.49387	-34.518
Asta 265 (50-49)	295	massimi	0.00	-184.28777	73.24899	118.42944	6.37984	166.74457	165.44
Asta 265 (50-49)	295	massimi	145.00	-190.81277	73.24899	118.42944	6.37984	11.96422	59.639
Asta 265 (50-49)	295	massimi	290.00	-197.33777	73.24899	118.42944	6.37984	183.48948	-30.836
Asta 265	295	minimi	0.00	-277.17523	-126.13354	-123.74227	-8.67199	-159.98631	-438.122

(50-49)									
Asta 265 (50-49)	295	minimi	145.00	-283.70023	-126.13354	-123.74227	-8.67199	-12.90955	-255.638
Asta 265 (50-49)	295	minimi	290.00	-290.22522	-126.13354	-123.74227	-8.67199	-192.13842	-88.48
Asta 266 (75-74)	296	massimi	0.00	-164.98697	113.05198	117.86539	7.28502	174.22515	398.023
Asta 266 (75-74)	296	massimi	145.00	-171.51197	113.05198	117.86539	7.28502	10.50926	234.667
Asta 266 (75-74)	296	massimi	290.00	-178.03697	113.05198	117.86539	7.28502	178.08532	83.366
Asta 266 (75-74)	296	minimi	0.00	-287.02707	-52.3699	-125.31936	-7.7668	-163.83444	-166.798
Asta 266 (75-74)	296	minimi	145.00	-293.55207	-52.3699	-125.31936	-7.7668	-10.92681	-91.43
Asta 266 (75-74)	296	minimi	290.00	-300.07707	-52.3699	-125.31936	-7.7668	-189.31112	-28.119
Asta 267 (80-79)	297	massimi	0.00	-170.83356	69.85992	113.42295	6.73653	174.41364	157.165
Asta 267 (80-79)	297	massimi	145.00	-177.35856	69.85992	113.42295	6.73653	11.112	56.233
Asta 267 (80-79)	297	massimi	290.00	-183.88356	69.85992	113.42295	6.73653	175.40354	-17.765
Asta 267 (80-79)	297	minimi	0.00	-284.61129	-129.70184	-128.93282	-8.31529	-153.54825	-429.772
Asta 267 (80-79)	297	minimi	145.00	-291.13629	-129.70184	-128.93282	-8.31529	-12.73592	-242.068
Asta 267 (80-79)	297	minimi	290.00	-297.66129	-129.70184	-128.93282	-8.31529	-199.51676	-81.30
Asta 268 (105-104)	298	massimi	0.00	-87.22914	155.36147	65.30061	5.34863	103.42517	403.632
Asta 268 (105-104)	298	massimi	145.00	-93.75414	155.36147	65.30061	5.34863	14.21919	180.674
Asta 268 (105-104)	298	massimi	290.00	-100.27914	155.36147	65.30061	5.34863	102.89462	12.486
Asta 268 (105-104)	298	minimi	0.00	-217.8064	-52.5007	-77.27302	-9.70319	-86.9722	-189.77
Asta 268 (105-104)	298	minimi	145.00	-224.3314	-52.5007	-77.27302	-9.70319	-15.12621	-115.96
Asta 268 (105-104)	298	minimi	290.00	-230.8564	-52.5007	-77.27302	-9.70319	-121.16163	-96.921
Asta 269 (110-109)	299	massimi	0.00	-90.31047	61.80844	64.3389	7.78752	105.75967	178.697
Asta 269 (110-109)	299	massimi	145.00	-96.83547	61.80844	64.3389	7.78752	14.72089	90.468
Asta 269 (110-109)	299	massimi	290.00	-103.36047	61.80844	64.3389	7.78752	107.37344	87.131
Asta 269 (110-109)	299	minimi	0.00	-224.8635	-169.94655	-85.27401	-7.2643	-79.30984	-430.646
Asta 269 (110-109)	299	minimi	145.00	-231.3885	-169.94655	-85.27401	-7.2643	-18.62699	-185.616
Asta 269 (110-109)	299	minimi	290.00	-237.9135	-169.94655	-85.27401	-7.2643	-141.63546	-25.479

1.4.4 Stato limite operatività (SLO)

1.4.4.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	0.271979	0.200145	-6.371209	0.000507815023861	0.000620203777409	0.000008840872605
1	minimi	-0.269066	-0.173843	-7.144521	-0.000240820797577	-0.000431476126734	-0.000012361745962
2	massimi	0.1325	0.146002	-6.371209	0.000507815023852	0.000620203777395	0.0000088408726
2	minimi	-0.172051	-0.059627	-7.144521	-0.000240820797573	-0.000431476126726	-0.000012361745956
3	massimi	0.12335	0.156637	-5.620102	0.000442662441655	0.000678213433653	0.000007397656724
3	minimi	-0.165671	-0.067335	-7.619502	-0.000280645969432	-0.000311327142887	-0.000010049750564
4	massimi	0.122995	0.133171	-6.549415	0.000442923374306	0.000499392107182	0.000007696278381
4	minimi	-0.165685	-0.051083	-7.138286	-0.00028245642338	-0.000507935120517	-0.00001083504655
5	massimi	0.140313	0.133217	-5.694603	0.000534721492029	0.000499409494784	0.000007377564271
5	minimi	-0.176197	-0.05123	-7.428466	-0.00018117238088	-0.000505473133805	-0.000010609223626
6	massimi	0.139954	0.156583	-5.417984	0.000535002632458	0.000678202604365	0.000007078584939
6	minimi	-0.176208	-0.06718	-7.256989	-0.000183003042607	-0.000313795687913	-0.000009823569965
7	massimi	2.066817	1.596462	-6.531351	0.000653663655998	0.000781088540377	0.000082808982034
7	minimi	-1.59907	-1.714464	-7.327336	-0.0002396156516	-0.000340257890199	-0.000057880074054
8	massimi	3.492029	2.627223	-6.614231	0.000603086950949	0.000794264850427	0.000142283851599
8	minimi	-2.718636	-2.80101	-7.420402	-0.000690730065058	-0.000739010482538	-0.000098861458779
9	massimi	4.547786	3.185794	-6.670674	0.00067763948906	0.000888945036738	0.00018438856021
9	minimi	-3.531276	-3.556459	-7.483971	-0.000160042542098	-0.000491574658255	-0.000127981380163
10	massimi	6.296182	4.406637	-6.748412	0.000633414580661	0.000721781628715	0.000295205989302
10	minimi	-4.587616	-5.182111	-7.572251	-0.000299368061862	-0.000441158215219	-0.000123888002994
11	massimi	0.318499	0.21622	-6.727096	0.000461331618722	0.000571167063012	0.00001162102338
11	minimi	-0.222798	-0.106461	-7.539748	-0.000181555524057	-0.000481593013646	-0.00000078109445
12	massimi	0.190053	0.175458	-6.727096	0.000461331618714	0.000571167063	0.000011621023374
12	minimi	-0.114506	-0.002749	-7.539748	-0.000181555524054	-0.000481593013635	-0.00000078109445
13	massimi	0.189134	0.166395	-6.695244	0.000395406609905	0.00064619796479	0.000010134325892
13	minimi	-0.103812	-0.006209	-7.405262	-0.000227632967851	-0.000361430127986	-0.000000679140975
14	massimi	0.188844	0.182155	-6.22625	0.000394630210732	0.000438298558002	0.000009500376278
14	minimi	-0.104261	0.000356	-8.086931	-0.000227592002735	-0.000552989243094	-0.000001018307685
15	massimi	0.188787	0.182196	-5.811557	0.00049353647656	0.000439914803216	0.000009290363166
15	minimi	-0.123281	0.000508	-7.909962	-0.00012195096177	-0.000552007413318	-0.000000630860018
16	massimi	0.188498	0.166333	-6.080467	0.000492748466811	0.000644585972976	0.000009921956697
16	minimi	-0.123731	-0.00634	-7.428376	-0.000121898386079	-0.000362416211161	-0.000000289337226
17	massimi	2.076257	1.567401	-6.896526	0.000624439120657	0.000515126298786	0.000139190541011
17	minimi	-1.589629	-1.244442	-7.733327	-0.000115984852792	-0.000604910646549	-0.000001498515077
18	massimi	3.585689	2.48285	-6.983061	0.000371569273774	0.000965695941547	0.000240833718318
18	minimi	-2.624976	-1.985089	-7.830637	-0.000628667249803	-0.000568071784613	-0.000000311592059
19	massimi	4.694724	2.87086	-7.042068	0.000738214721352	0.000707584446422	0.000312545962153
19	minimi	-3.384338	-2.57151	-7.897189	0.000035097712361	-0.000672273273716	0.000000176021781
20	massimi	6.22128	3.931254	-7.122474	0.00071911082992	-0.000358011551346	0.000338348023787
20	minimi	-4.662518	-4.271081	-7.988036	-0.000203449337804	-0.000638958806408	-0.000080745968508
21	massimi	0.231154	0.198838	-8.091302	0.000385620579289	0.000592309162255	0.000012092101511

21	minimi	-0.255054	-0.181542	-8.667077	-0.000257804599333	-0.000279470711318	-0.000008776146161
22	massimi	0.097906	0.140897	-8.091302	0.000385620579282	0.000592309162241	0.000012092101505
22	minimi	-0.192195	-0.094842	-8.667077	-0.000257804599328	-0.000279470711315	-0.000008776146157
23	massimi	0.091218	0.146685	-7.124712	0.00031024379264	0.000676616787183	0.000010041217483
23	minimi	-0.181751	-0.104557	-8.970485	-0.000308196434006	-0.000140938079692	-0.000007030085162
24	massimi	0.090933	0.133039	-8.102864	0.000309464210088	0.000448020221491	0.000010518658668
24	minimi	-0.181663	-0.083782	-8.735107	-0.00030998536667	-0.000389702472109	-0.000007767022333
25	massimi	0.103673	0.132962	-7.782406	0.000432931277601	0.000447601729432	0.000010167661107
25	minimi	-0.200268	-0.083946	-8.785264	-0.000186339381581	-0.000388097049299	-0.00000763747998
26	massimi	0.103383	0.146752	-7.192362	0.000432169880979	0.000677035926827	0.000009690064006
26	minimi	-0.200174	-0.104383	-8.632533	-0.000188146500175	-0.000142544150087	-0.000006900386893
27	massimi	2.064651	1.598328	-8.30312	0.00042755663799	0.000935842071351	0.000116404433261
27	minimi	-1.001266	-1.712598	-8.895666	-0.000218175333491	-0.000003160795556	-0.000024284622828
28	massimi	3.39557	2.596865	-8.401211	0.000712226039777	0.000569294537675	0.000204378312246
28	minimi	-1.802002	-2.831368	-9.000171	-0.000695464083843	-0.000705044607311	-0.000036766998132
29	massimi	4.083296	3.187195	-8.468329	0.000423633657189	0.000580097912755	0.000266492963642
29	minimi	-2.688683	-3.555059	-9.071776	-0.000189904642233	-0.000630976519595	-0.000045876976731
30	massimi	6.660887	4.421378	-8.588116	0.000499258850697	0.001382858375455	0.000367007609426
30	minimi	-2.452427	-5.167369	-9.201017	-0.000227984306352	0.001176607423923	-0.000052086382869
31	massimi	0.305415	0.213622	-10.33322	0.00037573917294	0.000574381108268	0.000013908711171
31	minimi	-0.208225	-0.114803	-10.453871	-0.000186341509842	-0.000319839284268	-0.000003540862237
32	massimi	0.176199	0.171905	-10.33322	0.000375739172934	0.000574381108256	0.000013908711164
32	minimi	-0.136281	-0.030472	-10.453871	-0.000186341509838	-0.000319839284262	-0.000003540862235
33	massimi	0.172815	0.163231	-9.550363	0.00028515202273	0.000697276405383	0.000012032904928
33	minimi	-0.123383	-0.033629	-10.592881	-0.000256996768831	-0.000152532962246	-0.000003018437913
34	massimi	0.172594	0.178219	-9.769395	0.000283730925193	0.000393319961803	0.000011505977232
34	minimi	-0.123768	-0.027181	-10.978209	-0.00025766554808	-0.000454756590936	-0.000003288408236
35	massimi	0.17754	0.178199	-9.564062	0.000439642952768	0.000394489540399	0.000011229247144
35	minimi	-0.147061	-0.02706	-10.783009	-0.000101080771163	-0.000454167372619	-0.000002917922581
36	massimi	0.177321	0.163233	-9.255358	0.000438220722389	0.000696107588571	0.000011755698857
36	minimi	-0.147447	-0.033733	-10.487353	-0.00010174841757	-0.000153122942347	-0.000002647476276
37	massimi	2.072887	1.570357	-10.613912	0.000484084552318	0.000511254857299	0.000169648635513
37	minimi	-0.99303	-1.241486	-10.737541	-0.000042611086893	-0.00022505322614	0.000028959579424
38	massimi	3.870067	2.438725	-10.726818	0.00044759270018	0.001239917759954	0.00031036552407
38	minimi	-1.327504	-2.029213	-10.853218	-0.000648655585527	-0.000102325763292	0.00006922013693
39	massimi	5.470365	2.874641	-10.80433	0.00051877955406	0.001197874791572	0.000409512501337
39	minimi	-1.301613	-2.567729	-10.932674	-0.000001450991349	0.00006324522976	0.000097142560964
40	massimi	6.622808	3.950811	-10.926287	0.000611322891888	-0.000812135405301	0.00040015519025
40	minimi	-2.490507	-4.251525	-11.06036	-0.000099592120976	-0.001037917496411	-0.000018938802045
41	massimi	0.322504	0.39222	-9.762912	0.000281527578162	0.00053982991694	0.000036800136432
41	minimi	-0.191825	-0.115286	-11.464734	-0.000480069603897	-0.000388946937363	-0.000001084507431
42	massimi	0.241567	0.320271	-9.762912	0.000281527578158	0.000539829916939	0.00003680013642
42	minimi	-0.133521	-0.073119	-11.464734	-0.000480069603889	-0.000388946937362	-0.000001084507431
43	massimi	0.240842	0.30402	-9.819995	0.000211137093295	0.000605067766383	0.000034357352796
43	minimi	-0.111721	-0.078844	-10.989343	-0.00054245504922	-0.000320745538756	-0.000001367058267
44	massimi	0.240802	0.334486	-9.323795	0.000210793998551	0.000458136901492	0.000033558390974
44	minimi	-0.112065	-0.066997	-11.678637	-0.000542511573601	-0.000445292762968	-0.00000137944335
45	massimi	0.240804	0.33451	-9.457625	0.000343696970034	0.000458246041304	0.000033157307782
45	minimi	-0.154164	-0.066853	-11.798893	-0.000403010990993	-0.000445927748643	-0.000000623667282
46	massimi	0.240766	0.303994	-9.739239	0.000343348086884	0.000604959933641	0.000033956425077
46	minimi	-0.154511	-0.078985	-11.324186	-0.000403061726968	-0.00032011186015	-0.000000611437672
47	massimi	2.07444	2.448624	-9.916307	0.000623393475198	-0.000134661440499	0.000170601260945
47	minimi	-0.991477	-0.421765	-11.647786	0.000383983879119	-0.000354625154629	0.000029912204856
48	massimi	4.433702	4.34683	-9.96842	-0.000355523249466	0.001741062601025	0.000332481400467
48	minimi	-0.76387	-0.183695	-11.70755	-0.001586856752645	0.000047239598678	0.00009133609009
49	massimi	5.446184	5.436334	-10.003365	0.000556186384941	-0.000727274495394	0.000446487681603
49	minimi	-1.325795	-0.072367	-11.747802	0.000226181436856	-0.001094656634177	0.00013411774123
50	massimi	0.192466	0.195265	-8.338382	0.00032680140128	0.000586946065388	0.0000128695884
50	minimi	-0.192732	-0.18909	-8.814225	-0.000300447349274	-0.000122254574038	-0.00001046052191
51	massimi	0.060416	0.127701	-8.338382	0.000326801401274	0.000586946065372	0.000012869588394
51	minimi	-0.165238	-0.115597	-8.814225	-0.000300447349268	-0.000122254574039	-0.000010460521905
52	massimi	0.05623	0.13424	-7.329281	0.000252842380331	0.000675214024741	0.000010605164618
52	minimi	-0.158127	-0.124867	-8.861335	-0.000351043144006	0.000010432500254	-0.000008435064316
53	massimi	0.056132	0.119356	-8.299806	0.000250885686319	0.000439240246686	0.000011194425201
53	minimi	-0.158081	-0.104711	-8.994129	-0.000352919732811	-0.000242562049211	-0.000009092526258
54	massimi	0.067907	0.119215	-8.183397	0.000378271204278	0.00043842363425	0.000010902789024
54	minimi	-0.174208	-0.104837	-9.054806	-0.000225500457519	-0.000241500706541	-0.000009047083446
55	massimi	0.067693	0.134371	-7.421845	0.000376347244266	0.000676030722865	0.000010313437146
55	minimi	-0.174046	-0.12473	-8.713038	-0.000227391780323	0.000009371071895	-0.000008389530209

56	massimi	2.034487	1.601795	-8.557122	0.000337976348684	0.000942581716496	0.000098649978559
56	minimi	-0.453112	-1.709132	-9.04655	-0.000295999534461	0.000175533501864	-0.000042039077529
57	massimi	3.411393	2.584815	-8.658855	0.000756621252286	0.000612507056975	0.000181984993146
57	minimi	-0.809769	-2.843418	-9.153263	-0.000660109458723	-0.000430571419966	-0.000059160317232
58	massimi	4.178679	3.188383	-8.728529	0.000324470165685	0.000641156960221	0.000240842569539
58	minimi	-1.33258	-3.55387	-9.226419	-0.000270094468064	-0.000346842276002	-0.000071527370834
59	massimi	6.996108	4.443615	-8.850645	0.000402711173748	0.00147426846114	0.000302108291631
59	minimi	-0.409017	-5.145132	-9.355769	-0.000308331349948	0.001312613979756	-0.000116985700664
60	massimi	0.249715	0.205074	-11.471312	0.000276319762558	0.000530580058731	0.000013917837868
60	minimi	-0.151324	-0.127208	-11.591303	-0.000270740105111	-0.000175344649031	-0.000009109471252
61	massimi	0.130349	0.144189	-11.471312	0.000276319762554	0.000530580058719	0.000013917837862
61	minimi	-0.111886	-0.065068	-11.591303	-0.000270740105106	-0.000175344649029	-0.000009109471248
62	massimi	0.126047	0.137551	-10.559891	0.000180004171753	0.000673881156782	0.000011937734719
62	minimi	-0.103143	-0.064024	-11.480023	-0.000346978855041	0.000001822568961	-0.000007718866286
63	massimi	0.125841	0.149008	-10.878527	0.000178201641941	0.000333549194882	0.000011554446375
63	minimi	-0.103276	-0.065539	-12.004825	-0.000348092931326	-0.000334755930759	-0.000007781379968
64	massimi	0.13683	0.148983	-10.90127	0.000353769876356	0.000333907520756	0.000011321967711
64	minimi	-0.122715	-0.065467	-11.970282	-0.000173136654677	-0.000335062442454	-0.000007505537949
65	massimi	0.136768	0.137561	-10.521736	0.000351966324665	0.000673523206581	0.000011705111428
65	minimi	-0.122992	-0.064081	-11.506378	-0.000174249709084	0.000002128704984	-0.000007442879641
66	massimi	2.045272	1.576646	-11.787182	0.000310332344886	0.00069134940533	0.000133604582565
66	minimi	-0.442326	-1.235197	-11.910854	-0.000212405894021	0.000027024020896	-0.000007084473524
67	massimi	3.960845	2.42547	-11.914704	0.000527244767779	0.001266126500677	0.000231211181617
67	minimi	-0.260316	-2.042469	-12.040316	-0.000574504410004	0.000186643963854	-0.00000993412876
68	massimi	5.673321	2.880703	-12.002486	0.000348482556362	0.001342209391367	0.000300089232209
68	minimi	0.162063	-2.561667	-12.129445	-0.000157536286378	0.000409907836516	-0.000012280708163
69	massimi	6.963972	3.983495	-12.126513	0.000461263007023	-0.000777628653376	0.000310057945381
69	minimi	-0.441154	-4.21884	-12.259408	-0.000244455901614	-0.000953290100432	-0.000109036046914
70	massimi	0.273982	0.367948	-12.322199	0.000258136453204	0.000618553440477	0.000017704704462
70	minimi	-0.126992	-0.14152	-13.748503	-0.000260879183592	-0.000120320554943	-0.000008111358469
71	massimi	0.181225	0.328919	-12.322199	0.0002581364532	0.000618553440473	0.000017704704457
71	minimi	-0.108971	-0.102902	-13.748503	-0.000260879183588	-0.000120320554945	-0.000008111358466
72	massimi	0.180539	0.32254	-12.270072	0.00017039980844	0.000698212861176	0.000016736589179
72	minimi	-0.102643	-0.102922	-13.238261	-0.000341330699104	-0.000038688039566	-0.000007684222313
73	massimi	0.180403	0.333181	-12.117169	0.0001696326667	0.000520037901111	0.000016000327558
73	minimi	-0.102859	-0.102264	-14.028783	-0.000341886705471	-0.000198285334748	-0.000007689925403
74	massimi	0.183961	0.333197	-12.123273	0.000338936392317	0.000520239067275	0.000015749486471
74	minimi	-0.117476	-0.102168	-14.026189	-0.00017208776351	-0.000198493765135	-0.00000720188948
75	massimi	0.183949	0.322523	-12.259434	0.00033815040427	0.000698012091545	0.000016482484145
75	minimi	-0.117815	-0.103017	-13.252409	-0.000172621363604	-0.000038480005712	-0.000007192922443
76	massimi	2.049944	2.454505	-12.526283	0.000434940603694	-0.000232495253018	0.000123465159275
76	minimi	-0.437655	-0.415884	-13.976835	0.000317998487523	-0.000484468019743	-0.000017223896814
77	massimi	4.649439	4.372358	-12.603577	-0.000266096691447	0.001900814275317	0.000254023967474
77	minimi	0.428277	-0.158167	-14.06314	-0.001589411455702	0.000544039525055	0.000012878657096
78	massimi	5.641851	5.453784	-12.656195	0.000390315166875	-0.001022416976628	0.000346038675552
78	minimi	0.130593	-0.054917	-14.122033	0.000267659368696	-0.001335441622513	0.000033668735179
79	massimi	0.161382	0.191884	-8.321995	0.000318343805623	0.000554375405996	0.000006432931614
79	minimi	-0.190191	-0.194214	-8.827572	-0.000307705030157	-0.000103685519061	-0.000015819245466
80	massimi	0.036662	0.122686	-8.321995	0.000318343805617	0.000554375405981	0.000006432931611
80	minimi	-0.166876	-0.122623	-8.827572	-0.000307705030152	-0.000103685519063	-0.000015819245459
81	massimi	0.030226	0.134776	-7.387321	0.000245244594146	0.000644368036708	0.000005188323203
81	minimi	-0.168152	-0.12513	-8.800346	-0.000358623475466	0.000027864482473	-0.000012877992338
82	massimi	0.030188	0.108847	-8.247351	0.000242828121661	0.000408245223994	0.000005816830097
82	minimi	-0.168115	-0.118367	-9.010392	-0.000359907327633	-0.000224738318608	-0.000013506856882
83	massimi	0.043186	0.108626	-8.223706	0.000370046540805	0.000407998399322	0.000005563291538
83	minimi	-0.163954	-0.118479	-9.011538	-0.000232485613013	-0.00022439269964	-0.000013559149407
84	massimi	0.043116	0.13499	-7.375633	0.000367642463663	0.000644614474525	0.000004934711733
84	minimi	-0.163885	-0.125011	-8.789536	-0.000233781860524	0.000027519250361	-0.000012930211952
85	massimi	1.917548	1.605969	-8.540035	0.000330445183598	0.000915945372697	0.000041303145006
85	minimi	-0.378486	-1.704958	-9.060367	-0.000300930422114	0.000213996938656	-0.000099385911083
86	massimi	3.247619	2.586522	-8.641528	0.000760728893267	0.000585407248139	0.000073830217255
86	minimi	-0.628949	-2.841711	-9.167242	-0.000656317683464	-0.000356405503323	-0.000167315093122
87	massimi	3.987362	3.190172	-8.711045	0.000317761065469	0.000620679775502	0.000097014132007
87	minimi	-1.054443	-3.552081	-9.240502	-0.00027637225432	-0.000269811812349	-0.000215355808365
88	massimi	6.792386	4.464647	-8.832738	0.00038869736471	0.001486603077595	0.000164065126005
88	minimi	0.027976	-5.1241	-9.370076	-0.000321959788199	0.001337521800286	-0.00025502886629
89	massimi	0.211466	0.195765	-11.690453	0.000231115475783	0.000503750269593	0.000008613821666
89	minimi	-0.150401	-0.138948	-11.772293	-0.000313748763073	-0.000152883715667	-0.00001200607222
90	massimi	0.098131	0.125201	-11.690453	0.000231115475779	0.000503750269581	0.000008613821662

90	minimi	-0.11601	-0.086977	-11.772293	-0.000313748763068	-0.000152883715665	-0.000012006072215
91	massimi	0.094142	0.123764	-10.736447	0.00013487355744	0.000651037227265	0.000007429146722
91	minimi	-0.114921	-0.082339	-11.604088	-0.000390050498399	0.00002647800998	-0.000010134870361
92	massimi	0.094046	0.125049	-11.094483	0.000133119957595	0.000305450348117	0.000007184961284
92	minimi	-0.114989	-0.090625	-12.079117	-0.000391177634827	-0.000316763883603	-0.000010106060585
93	massimi	0.101401	0.124988	-11.179958	0.000311824210022	0.000304977115052	0.000006988636821
93	minimi	-0.115979	-0.090611	-12.168393	-0.000212851778723	-0.00031705800515	-0.000009951729005
94	massimi	0.101317	0.123815	-10.805254	0.000310069637523	0.000651511174387	0.00000723172589
94	minimi	-0.116059	-0.082345	-11.710032	-0.000213977942499	0.000026771417471	-0.000009979442411
95	massimi	1.925054	1.584341	-12.012231	0.000242261251825	0.000704232789532	0.000100958816461
95	minimi	-0.37098	-1.227502	-12.096292	-0.000273832401676	0.000090248786336	-0.000039730239627
96	massimi	3.798705	2.421738	-12.141399	0.00055815632729	0.001225968281584	0.000160258066083
96	minimi	-0.077863	-2.046201	-12.227463	-0.000545262136186	0.000248095209131	-0.000080887244294
97	massimi	5.474391	2.888902	-12.230332	0.000276040125041	0.001329688493838	0.000202239467076
97	minimi	0.432586	-2.553468	-12.317798	-0.000227574277137	0.000490566081247	-0.000110130473297
98	massimi	6.760244	4.015995	-12.355002	0.000409808602491	-0.000766146842804	0.000186778222668
98	minimi	-0.004165	-4.186341	-12.448283	-0.000293566017591	-0.000926672234262	-0.000232315769627
99	massimi	0.23666	0.313902	-13.624256	-0.00029940627206	0.000297759857713	0.00004282429765
99	minimi	-0.120329	-0.189509	-14.798324	-0.000537614464286	-0.000307996239396	-0.000035676849432
100	massimi	0.192009	0.233485	-13.624256	-0.00029940627205	0.000297759857715	0.000042824297637
100	minimi	-0.074143	-0.194226	-14.798324	-0.000537614464278	-0.000307996239393	-0.000035676849421
101	massimi	0.172932	0.232549	-13.519358	-0.000121529659385	0.000389155972683	0.000039600222418
101	minimi	-0.051175	-0.188578	-14.281934	-0.000622248850781	-0.000215127243034	-0.000033172888092
102	massimi	0.172919	0.242166	-13.144305	-0.000121587081162	0.00019728703346	0.000039138842916
102	minimi	-0.051223	-0.198878	-14.643887	-0.000622164317571	-0.000391476475434	-0.00003284038924
103	massimi	0.209936	0.242226	-13.462981	0.000062631640981	0.00019647056846	0.0000389656808
103	minimi	-0.096681	-0.198755	-15.051545	-0.000436688788971	-0.000392163200987	-0.000032280298209
104	massimi	0.20993	0.223484	-13.830693	0.000062569893978	0.000389973116948	0.000039427448637
104	minimi	-0.096736	-0.188696	-14.696933	-0.000436599930534	-0.000214441196745	-0.000032613185395
105	massimi	1.925281	2.467134	-13.860388	0.000075210052509	-0.000109255514062	0.000049451361368
105	minimi	-0.370753	-0.403255	-15.055886	-0.000018567343858	-0.00034134694409	-0.000091237694721
106	massimi	4.414992	4.307207	-13.974385	0.000228133165642	0.001684061839914	-0.000251177465815
106	minimi	0.538425	-0.223318	-15.178077	-0.000590887460802	0.000532610037058	-0.000492322776192
107	massimi	5.436367	5.487983	-14.028466	0.00001441274606	-0.00086793893653	0.000155791089254
107	minimi	0.394562	-0.020719	-15.237873	-0.000154964961997	-0.001161800929292	-0.000156578851119
108	massimi	0.129854	0.061825	-1.449227	-0.00037296058998	-0.001026906903948	0.000008943090325
108	minimi	0.013523	-0.041267	-1.571611	-0.000513752376412	-0.001064495944557	0.000000950247667
109	massimi	2.183349	2.248674	-1.544002	0.000520629063813	0.001507849592963	-0.000003311707979
109	minimi	-0.075427	-0.690142	-1.669619	-0.000800437184001	0.00035405559884	-0.000144000764067
110	massimi	3.422304	3.137236	-1.609021	0.000396730625986	-0.000740073443877	-0.00000991952754
110	minimi	-0.387349	-1.515145	-1.73697	-0.000175893166254	-0.001045727033509	-0.000251064837918
111	massimi	0.127927	0.049913	-0.431085	-0.000116505744232	0.000350977277037	0.000008865859956
111	minimi	0.013796	-0.048231	-0.563459	-0.000273375246781	0.000233683445759	0.000001208120355
112	massimi	2.818935	1.987357	-0.471087	0.000670975237812	0.001047120521451	0.00005081124
112	minimi	0.56016	-1.217461	-0.606899	-0.000808518288324	-0.000009048860366	-0.000089877816088
113	massimi	3.413371	2.950605	-0.496501	0.000477277365887	-0.000654311105602	0.000083273165985
113	minimi	-0.396283	-2.285567	-0.634792	-0.000194978148025	-0.001222465936626	-0.000157872144392
114	massimi	0.134053	0.277934	-13.187843	0.000008486987676	-0.002354922430364	0.000010458147102
114	minimi	0.006823	-0.217503	-14.224227	-0.000272619465534	-0.002388644920173	-0.000026421023335
115	massimi	1.735016	2.471808	-13.78332	-0.000108313099243	-0.000152798453668	-0.000027758625288
115	minimi	-0.52376	-0.398581	-14.943079	-0.000214435972828	-0.000386565633771	-0.000168447681376
116	massimi	3.448148	4.296995	-14.482622	0.000069652008926	0.000610741932947	-0.000052123539284
116	minimi	-0.361506	-0.23353	-15.593404	-0.000303062337622	0.000023692119164	-0.000293268849662
117	massimi	0.107324	0.188156	-8.229291	0.000299007042461	0.000453290362487	-0.000000374978073
117	minimi	-0.219315	-0.197681	-8.735542	-0.000331017527093	-0.000190482261115	-0.000026404147275
118	massimi	0.005341	0.113739	-8.229291	0.000299007042455	0.000453290362474	-0.000000374978073
118	minimi	-0.176463	-0.130465	-8.735542	-0.000331017527087	-0.000190482261114	-0.000026404147263
119	massimi	-0.005696	0.137752	-7.41163	0.000227730578645	0.000546847354908	-0.000000540300421
119	minimi	-0.188799	-0.126752	-8.774523	-0.000381424783452	-0.000056121804804	-0.000021681247875
120	massimi	-0.005447	0.088102	-8.001646	0.000225553852537	0.000313832281453	0.000000139148075
120	minimi	-0.188977	-0.132293	-8.808495	-0.000381405805553	-0.000305555613053	-0.000022266450424
121	massimi	0.017901	0.087785	-8.072542	0.000350093698086	0.000313482324729	-0.000000085352976
121	minimi	-0.163445	-0.132413	-8.805293	-0.000255868183533	-0.000305502913594	-0.000022443860359
122	massimi	0.017907	0.138067	-7.372719	0.000347928913152	0.000547197150104	-0.000000764786963
122	minimi	-0.16338	-0.126629	-8.88113	-0.000255861146807	-0.000056174342735	-0.000021858672318
123	massimi	1.579205	1.610621	-8.444629	0.000287785584979	0.000834860549313	0.000010308659522
123	minimi	-0.653949	-1.700306	-8.965506	-0.000343552693769	0.000144782968528	-0.000130380396567
124	massimi	2.72515	2.58188	-8.544342	0.00078030358357	0.000475023993215	0.000038933326008
124	minimi	-1.037952	-2.846353	-9.070951	-0.000633740243942	-0.000425267225609	-0.000202211984369

125	massimi	3.324534	3.192374	-8.612605	0.000273620586759	0.000514398030872	0.000059377253736
125	minimi	-1.555962	-3.54988	-9.143211	-0.000326130930196	-0.000332983409741	-0.000252992686637
126	massimi	5.906438	4.482788	-8.733733	0.000345492726564	0.001451615942118	0.000098273571473
126	minimi	-0.651364	-5.105959	-9.272156	-0.000368066809935	0.001297157461112	-0.000320820420822
127	massimi	0.164612	0.186486	-11.392969	0.000178044227151	0.000417400275049	0.000007903325884
127	minimi	-0.163754	-0.149467	-11.572041	-0.000366610906523	-0.000231185538022	-0.000012739801074
128	massimi	0.070715	0.104045	-11.392969	0.000178044227148	0.000417400275039	0.00000790332588
128	minimi	-0.111754	-0.109454	-11.572041	-0.000366610906516	-0.000231185538018	-0.000012739801068
129	massimi	0.068613	0.101515	-10.570551	0.000085545018708	0.000565403483215	0.000006744968754
129	minimi	-0.113812	-0.10191	-11.36991	-0.000439300565905	-0.000052617261827	-0.000010753146715
130	massimi	0.068604	0.105269	-10.644194	0.000084492678594	0.000227129834871	0.000006594829312
130	minimi	-0.11378	-0.115606	-11.738397	-0.000439777113459	-0.0003863440976	-0.000010572533157
131	massimi	0.072158	0.105193	-10.886437	0.000258279416452	0.0002261914929	0.00000646430445
131	minimi	-0.108516	-0.115635	-11.89493	-0.00026602273404	-0.000387156835805	-0.000010538397135
132	massimi	0.072155	0.101587	-10.699943	0.000257225859785	0.000566344272602	0.000006613931189
132	minimi	-0.10849	-0.101878	-11.639293	-0.000266498065042	-0.000051806971037	-0.000010718497991
133	massimi	1.575926	1.592377	-11.705571	0.000136406303652	0.000578785179656	0.000075532752405
133	minimi	-0.657229	-1.219466	-11.890098	-0.000375859668025	-0.000014614531168	-0.000065156303683
134	massimi	3.183932	2.414686	-11.830772	0.000604740494869	0.001075975201713	0.000097064914804
134	minimi	-0.57917	-2.053252	-12.018442	-0.000497307612166	0.000143470187775	-0.000144080395573
135	massimi	4.689015	2.897806	-11.916932	0.00017025901441	0.001221228897014	0.000112528999236
135	minimi	-0.191481	-2.544564	-12.10678	-0.000336383117888	0.000422196843372	-0.000199840941136
136	massimi	5.871581	4.044597	-12.039569	0.000324702218886	-0.000760122781296	0.000118487935362
136	minimi	-0.686222	-4.157738	-12.236062	-0.000374398307556	-0.000927366125305	-0.000300606056933
137	massimi	0.192179	0.241215	-12.754757	-0.0001548182141	-0.000298227592514	0.000038004501295
137	minimi	-0.108055	-0.246857	-13.838266	-0.000671260711355	-0.000771268864869	-0.000022553820878
138	massimi	0.236928	0.140572	-12.754757	-0.000154818214098	-0.000298227592502	0.000038004501283
138	minimi	0.00762	-0.270125	-13.838266	-0.000671260711345	-0.000771268864857	-0.000022553820871
139	massimi	0.222968	0.130115	-12.870488	-0.000238802550326	-0.000204846556562	0.000034771291671
139	minimi	0.029857	-0.268237	-13.63141	-0.000748538062661	-0.000677005624859	-0.000021212420426
140	massimi	0.223074	0.150299	-11.901624	-0.00023745252693	-0.000382516277149	0.000034922621115
140	minimi	0.029952	-0.270424	-13.231577	-0.000747055485317	-0.00084202138563	-0.000020938455041
141	massimi	0.249286	0.15047	-12.385644	-0.00006745488745	-0.000383649541983	0.000034952559948
141	minimi	-0.014837	-0.270215	-13.804738	-0.000575012343733	-0.000843076021241	-0.000020165594704
142	massimi	0.249398	0.12994	-13.345889	-0.000066107641548	-0.000203712223219	0.000034801818156
142	minimi	-0.014749	-0.268442	-14.213191	-0.000573526988895	-0.000675952057756	-0.00002044014774
143	massimi	1.568521	2.476643	-12.988177	-0.000487544061417	-0.000196983187327	0.000071218564913
143	minimi	-0.664633	-0.393746	-14.094973	-0.000554457769599	-0.000434190138989	-0.000069470491176
144	massimi	3.604536	4.287174	-13.124285	-0.000219397348915	0.001433894553118	0.000049231729655
144	minimi	-0.158566	-0.243351	-14.237859	-0.000748740864248	0.000415755716606	-0.000191913580722
145	massimi	4.637805	5.564782	-13.173953	-0.000483230744694	-0.000879584078245	0.000176463197406
145	minimi	-0.24269	0.056081	-14.293633	-0.000674243537145	-0.001172969106593	-0.000135906742966
146	massimi	0.142422	0.061896	-1.376393	0.000447824789162	-0.000998381091398	0.000007785322727
146	minimi	-0.019578	-0.041262	-1.509065	0.000297202411676	-0.001039294483555	-0.000007074366374
147	massimi	2.088065	1.569349	-1.467657	0.000335225009933	0.001466363624274	0.000002550721463
147	minimi	-0.13905	-1.369467	-1.604946	-0.000976881605572	0.000340015702215	-0.000138138334625
148	massimi	3.382796	3.136012	-1.530137	-0.000075869549405	-0.000618870569206	0.000003501673475
148	minimi	-0.369163	-1.51637	-1.670758	-0.000666720027724	-0.000910324954633	-0.000237643636902
149	massimi	0.13983	0.050045	-0.380001	0.000252812822342	0.000343407660874	0.000008284352586
149	minimi	-0.017706	-0.048055	-0.558242	0.000077039429621	0.000225408930437	-0.000008850851423
150	massimi	2.786099	1.565604	-0.417373	0.00061741976967	0.001033951940157	0.000046257689341
150	minimi	0.558984	-1.639215	-0.600974	-0.000856748678037	0.000006438390878	-0.000094431366747
151	massimi	3.372184	2.950774	-0.440887	0.000072595897549	-0.000655251758956	0.000079273990388
151	minimi	-0.379774	-2.285398	-0.628354	-0.000602500594378	-0.001215189499818	-0.00016187131999
152	massimi	0.151073	0.226152	-12.252757	-0.000660089778426	-0.001860886801833	0.000067596379679
152	minimi	-0.034005	-0.256938	-13.268692	-0.000734842500027	-0.001972881258793	-0.000034503202781
153	massimi	1.558287	2.478312	-12.45914	-0.000639417358992	-0.000273276188265	0.000052484891565
153	minimi	-0.668828	-0.392076	-13.537901	-0.000714054225437	-0.000498644552253	-0.000088204164523
154	massimi	3.414762	4.282145	-12.874871	-0.000241814705159	0.000889710483903	-0.00014773170729
154	minimi	-0.337196	-0.248379	-13.945327	-0.000315748415133	0.000183569034207	-0.000355918481106
155	massimi	0.046672	0.18486	-7.323111	0.000278302397652	0.000397530238473	0.000012315378729
155	minimi	-0.3219	-0.198574	-8.056539	-0.000475610178223	-0.000265785318119	-0.000004182541128
156	massimi	-0.04273	0.077893	-7.323111	0.000278302397647	0.000397530238461	0.000012315378723
156	minimi	-0.262141	-0.136001	-8.056539	-0.000475610178215	-0.000265785318119	-0.000004182541126
157	massimi	-0.04037	0.071254	-6.515909	0.000213445921337	0.000481707022483	0.000010493118225
157	minimi	-0.255164	-0.137742	-8.111116	-0.000513835411227	-0.000141406692544	-0.000003503383756
158	massimi	-0.040044	0.083513	-6.832074	0.000211293852033	0.000273117289348	0.000010497886477
158	minimi	-0.255241	-0.132327	-8.107753	-0.000512765014689	-0.000363269289813	-0.000003180744019
159	massimi	-0.044714	0.082943	-7.445884	0.000324495271149	0.000273648726798	0.00001090453854

159	minimi	-0.265686	-0.132536	-7.911204	-0.000402880144324	-0.000365632976033	-0.000003489353219
160	massimi	-0.044385	0.071822	-6.710062	0.000322356195647	0.000481158774983	0.000010083978003
160	minimi	-0.265766	-0.137531	-8.334223	-0.000401822741588	-0.000139026196273	-0.000003810285356
161	massimi	1.366935	1.615596	-7.508763	0.00034319055727	0.000941790235742	0.000145950902004
161	minimi	-0.968246	-1.695331	-8.263174	-0.000475206041214	0.000243268401999	0.000005261845915
162	massimi	2.706886	2.574653	-7.592306	0.000751641124424	0.000579057502375	0.000230132625385
162	minimi	-1.244372	-2.85358	-8.355675	-0.000565039189363	-0.000373096772859	-0.000011012684992
163	massimi	3.462954	3.195223	-7.649219	0.000326283732984	0.000628561013723	0.000289584699443
163	minimi	-1.653092	-3.54703	-8.418844	-0.000480017788075	-0.000180409819236	-0.00002278524093
164	massimi	5.170383	4.49345	-7.730861	0.000418597138711	0.000894791611272	0.00021219854206
164	minimi	-1.671094	-5.095297	-8.508242	-0.000507301784451	0.000713287330272	-0.000206895450235
165	massimi	0.177978	0.179543	-9.710775	0.000147367000788	0.000322145567817	0.000014860683221
165	minimi	-0.197829	-0.156468	-10.044571	-0.000497988008243	-0.000337740090057	-0.00001873363512
166	massimi	0.105515	0.067538	-9.710775	0.000147367000786	0.000322145567811	0.000014860683214
166	minimi	-0.121858	-0.123352	-10.044571	-0.000497988008234	-0.000337740090051	-0.000018733635111
167	massimi	0.109538	0.080245	-9.04286	0.000068304471868	0.000450711072115	0.000012192942805
167	minimi	-0.129431	-0.131618	-9.847772	-0.000552645329536	-0.00018135523634	-0.000015567050824
168	massimi	0.109782	0.054165	-8.760883	0.000068125779739	0.000160961589916	0.000012614759908
168	minimi	-0.129436	-0.113542	-10.092724	-0.000552338600963	-0.000459927250675	-0.000015674388156
169	massimi	0.102285	0.054129	-9.248549	0.000215654067468	0.000160330365652	0.000012641980448
169	minimi	-0.115098	-0.113547	-10.34654	-0.000406455287555	-0.000462551986043	-0.000015739991942
170	massimi	0.102378	0.080284	-9.371382	0.000215451740891	0.000451339782525	0.000012219822798
170	minimi	-0.114953	-0.131615	-10.260734	-0.000406124924534	-0.000178727987119	-0.000015632314062
171	massimi	1.300521	1.600519	-9.972868	0.000083586483991	0.000347329101815	0.000028405916693
171	minimi	-1.03466	-1.211323	-10.315615	-0.00056251749842	-0.000293680971068	-0.000112283139396
172	massimi	2.430156	2.4207	-10.081309	0.000618276282852	0.000788872650782	0.000042654658744
172	minimi	-1.521102	-2.047238	-10.432188	-0.000411413020963	-0.0001855292173	-0.000198490651633
173	massimi	3.510307	2.907206	-10.155697	0.00015880034864	0.000832378228521	0.000053004852293
173	minimi	-1.605739	-2.535164	-10.512265	-0.000505887672154	0.000059195941154	-0.000259365088079
174	massimi	5.108569	4.061466	-10.239638	0.000428082636834	-0.00030985297002	0.00012207695202
174	minimi	-1.732907	-4.140869	-10.604815	-0.000495118869438	-0.000504001408115	-0.000297017040275
175	massimi	0.212594	0.16356	-8.516419	-0.000461292868075	0.000140064261483	-0.000001491836441
175	minimi	-0.163334	-0.300083	-9.380311	-0.000978233829173	-0.000483911853824	-0.000031654191204
176	massimi	0.191596	0.016876	-8.516419	-0.000461292868068	0.000140064261487	-0.000001491836441
176	minimi	-0.090759	-0.369328	-9.380311	-0.000978233829157	-0.000483911853819	-0.000031654191194
177	massimi	0.188753	0.024529	-8.290651	-0.000510249909986	0.000196058362845	-0.000001955519826
177	minimi	-0.108236	-0.356023	-8.742643	-0.001021173180322	-0.000423188586757	-0.000029193376389
178	massimi	0.189103	0.009235	-7.680166	-0.000509846525032	0.000079800980134	-0.000001333294234
178	minimi	-0.108039	-0.380309	-8.913086	-0.001020665872269	-0.000529883917106	-0.000028658576688
179	massimi	0.192916	0.0093	-8.569924	-0.000398669745832	0.000078047760506	-0.000000776640392
179	minimi	-0.072976	-0.380218	-9.865575	-0.000905987991961	-0.000531943336931	-0.000028884204747
180	massimi	0.193271	0.024468	-9.096387	-0.000398269586076	0.00019781261436	-0.000001402430298
180	minimi	-0.072783	-0.356118	-9.779155	-0.00090547745871	-0.000421130198819	-0.000029415440135
181	massimi	1.289008	2.48534	-8.650198	-0.001249806362988	-0.000593030533292	-0.000100630568692
181	minimi	-1.046173	-0.385048	-9.527792	-0.00135293663209	-0.000771266686779	-0.00024131962478
182	massimi	2.931546	4.261934	-8.727995	-0.000908875904985	0.001307880740312	-0.000296001235931
182	minimi	-1.019712	-0.268591	-9.611532	-0.001386630800562	0.000103374923876	-0.000537146546308
183	massimi	3.462597	5.651573	-8.765089	-0.001088037191161	-0.001218669724596	-0.000275045352177
183	minimi	-1.653449	0.142871	-9.653005	-0.001297305775271	-0.001452898987789	-0.000587415292549
184	massimi	0.077149	0.28417	-12.020271	0.000362479526188	0.000878744262135	0.000026634652219
184	minimi	-0.297594	-0.20386	-12.467221	-0.00045810703189	0.000446568877694	-0.00000604309389
185	massimi	-0.054124	0.215578	-12.020271	0.000362479526183	0.000878744262119	0.000026634652211
185	minimi	-0.365119	-0.149613	-12.467221	-0.000458107031883	0.000446568877675	-0.000006043093888
186	massimi	-0.05204	0.201522	-11.42604	0.000278632256132	0.000945229606664	0.000025122554138
186	minimi	-0.353515	-0.148347	-11.92581	-0.000529185751734	0.0005178947777	-0.000005437489395
187	massimi	-0.051951	0.22825	-12.085258	0.000276598557852	0.000785471883634	0.00002449921238
187	minimi	-0.353707	-0.149932	-12.962673	-0.000530662194095	0.000361628496041	-0.000005030697363
188	massimi	-0.055813	0.227767	-12.108417	0.000437312839046	0.000785267846747	0.000023742922874
188	minimi	-0.374234	-0.1501	-13.061894	-0.00037158905699	0.00036157925996	-0.000005650690454
189	massimi	-0.055719	0.202006	-11.401159	0.000435277965148	0.000945433928379	0.000024365237754
189	minimi	-0.374431	-0.14818	-12.073071	-0.000373064323734	0.000517943728954	-0.000006056455608
190	massimi	1.353086	1.796826	-12.22413	0.000664934911023	0.001234148404269	0.000075864868816
190	minimi	-0.982095	-1.182752	-12.678676	0.000339170389233	0.001082322607699	-0.000064824187272
191	massimi	2.389079	3.553545	-12.298946	0.000129140261579	0.000443711172962	0.000165875326855
191	minimi	-1.562179	-1.30296	-12.757964	-0.001247392310792	-0.000874969170675	-0.000075269983523
192	massimi	3.479061	3.696882	-12.349815	0.001811486454555	0.001412884379391	0.000229419916735
192	minimi	-1.636985	-2.306959	-12.811941	0.001412796031488	0.001246795149755	-0.000082950023637
193	massimi	0.161238	0.237656	-11.019585	0.000179035491037	-0.000231465875282	0.000022476900156
193	minimi	-0.215094	-0.214437	-11.838888	-0.000498139034882	-0.000695964452981	-0.000027730342286

194	massimi	0.19606	0.16294	-11.019585	0.000179035491034	-0.000231465875272	0.000022476900149
194	minimi	-0.110801	-0.187587	-11.838888	-0.000498139034875	-0.000695964452974	-0.000027730342277
195	massimi	0.200222	0.176024	-11.052745	0.000103511101885	-0.000157029753287	0.000020150887161
195	minimi	-0.118389	-0.197398	-11.984409	-0.00056605539404	-0.0006096105878	-0.000025150270159
196	massimi	0.200335	0.148852	-10.714785	0.000104600038068	-0.000298845624263	0.000020659919508
196	minimi	-0.118464	-0.176607	-11.135483	-0.000564687996856	-0.000761102436304	-0.000025578394297
197	massimi	0.192794	0.148907	-10.687754	0.000248015848167	-0.000298911895092	0.000021086316239
197	minimi	-0.104713	-0.17653	-11.570889	-0.000416407263359	-0.000761881322959	-0.000025724904359
198	massimi	0.192791	0.17597	-11.057001	0.000249106481012	-0.000156962762748	0.000020577212896
198	minimi	-0.104671	-0.197477	-12.388529	-0.000415041562836	-0.000608832420856	-0.000025296709226
199	massimi	1.309104	2.069767	-11.203115	0.000193094026072	-0.00074226718005	-0.000177330588751
199	minimi	-1.026077	-0.735582	-12.032791	-0.000133970033888	-0.000990153157517	-0.00031801964484
200	massimi	2.787219	3.463406	-11.257579	0.000215445987616	0.001379159049885	-0.00037956031884
200	minimi	-1.164039	-1.006676	-12.094264	-0.000984399790427	0.000159627872785	-0.000620705629218
201	massimi	3.490675	4.160109	-11.294156	0.00035125857036	-0.000860665838925	-0.000521205648283
201	minimi	-1.625371	-1.293197	-12.135734	0.000034993100648	-0.001109567361458	-0.000833575588656
202	massimi	0.110855	0.262664	-11.491328	0.000272861594808	0.000056060004179	-0.000002973013524
202	minimi	-0.225814	-0.228388	-12.664953	-0.000589688073993	-0.000722665633016	-0.000036800541277
203	massimi	0.102482	0.174368	-11.491328	0.000272861594804	0.000056060004182	-0.000002973013523
203	minimi	-0.117451	-0.187615	-12.664953	-0.000589688073984	-0.000722665633008	-0.000036800541266
204	massimi	0.094725	0.192608	-11.176861	0.000188716673893	0.000132607978965	-0.000003064346822
204	minimi	-0.133308	-0.18217	-12.980044	-0.000657486244283	-0.000633583123957	-0.00003341713404
205	massimi	0.094892	0.155076	-10.842186	0.000188833363984	-0.000022189266158	-0.000002566536065
205	minimi	-0.133454	-0.191921	-12.461625	-0.000655837404825	-0.00078972570362	-0.000033871456055
206	massimi	0.11019	0.154927	-11.583263	0.000348574966585	-0.000022119124271	-0.000002388945202
206	minimi	-0.101466	-0.191796	-12.126009	-0.000505565585594	-0.000790634972101	-0.000034098184418
207	massimi	0.110345	0.192759	-11.731781	0.000348695744377	0.000132534468254	-0.000002886746898
207	minimi	-0.1016	-0.182297	-12.830586	-0.000503920833837	-0.000632670486652	-0.000033643871464
208	massimi	-0.17579	1.795756	-11.681436	-0.000458378252032	-0.000014370540569	-0.000085689749914
208	minimi	-2.808203	-1.183821	-12.873994	-0.000753793154225	-0.00018064331304	-0.000226378806002
209	massimi	-0.511103	2.342173	-11.749478	0.000961594667812	-0.000197018865691	-0.000186845431716
209	minimi	-5.001141	-2.514332	-12.946484	-0.000439982866402	-0.001547936571142	-0.000427990742093
210	massimi	-0.601847	3.725777	-11.795592	-0.001682938575826	0.000101981290124	-0.000257523876191
210	minimi	-6.40197	-2.278064	-12.995686	-0.002044678170399	-0.00024741483725	-0.000569839816563
211	massimi	0.132543	0.220097	-8.73952	-0.00007968066673	-0.00031698355349	0.000004990778411
211	minimi	-0.189516	-0.23482	-9.611724	-0.00070070971716	-0.000907371120743	-0.000026998773228
212	massimi	0.180136	0.115024	-8.73952	-0.000007968066673	-0.000316983553479	0.000004990778409
212	minimi	-0.053456	-0.236049	-9.611724	-0.00070070971715	-0.000907371120731	-0.00002699877322
213	massimi	0.174971	0.124453	-8.584177	-0.00006968846345	-0.000254276946551	0.000004104701282
213	minimi	-0.061893	-0.231889	-9.930285	-0.000746277998673	-0.000835885133981	-0.000024699228819
214	massimi	0.175151	0.104893	-7.815489	-0.000068124778715	-0.000370020025021	0.000004649545279
214	minimi	-0.061885	-0.238703	-9.132095	-0.00074459893498	-0.000951203396204	-0.000024846774869
215	massimi	0.184435	0.104982	-8.708339	0.000052432257756	-0.000370599000759	0.000005052108401
215	minimi	-0.045181	-0.238595	-9.146182	-0.000635460419986	-0.000952501379666	-0.000024833474076
216	massimi	0.184613	0.124365	-9.32506	0.000053997309088	-0.000253701116627	0.000004507791027
216	minimi	-0.045171	-0.231998	-10.096339	-0.00063378272289	-0.000834584004705	-0.00002468645465
217	massimi	-0.183616	2.077106	-8.872475	-0.000532166059336	-0.000919349215562	0.000106229689627
217	minimi	-2.816029	-0.728244	-9.753916	-0.000901195304178	-0.001032377642701	-0.000034459366461
218	massimi	-0.530024	3.309758	-8.947393	0.000563343016476	0.000201260832748	0.000143591496854
218	minimi	-5.020061	-1.160324	-9.832247	-0.000621716050771	-0.001233426565791	-0.000097553813523
219	massimi	-0.619346	4.174476	-8.998331	-0.000520171340647	-0.000594398375146	0.00017017001276
219	minimi	-6.41947	-1.27883	-9.885555	-0.000867619556978	-0.000762519171828	-0.000142199927613
220	massimi	0.262342	0.229831	-10.749281	-0.000073849636326	-0.00003051891447	-0.000004047377047
220	minimi	-0.117889	-0.226285	-11.387298	-0.000546040655488	-0.000678294749688	-0.000026000995695
221	massimi	0.266945	0.147951	-10.749281	-0.000073849636324	-0.000030518914461	-0.000004047377045
221	minimi	-0.01617	-0.237389	-11.387298	-0.000546040655479	-0.000678294749678	-0.000026000995687
222	massimi	0.255745	0.156851	-10.484246	-0.000144749736615	0.000039018631059	-0.000003977836473
222	minimi	-0.023741	-0.227928	-11.505679	-0.000608804962857	-0.000595675006748	-0.000024143976764
223	massimi	0.255916	0.138106	-10.280022	-0.000143894315618	-0.000099125240842	-0.000003828813926
223	minimi	-0.023773	-0.245313	-10.802793	-0.000607783064771	-0.000740237877783	-0.000023999392831
224	massimi	0.276268	0.138268	-10.797065	-0.000001532561168	-0.000099688324207	-0.000003445463668
224	minimi	-0.008524	-0.245085	-11.079059	-0.00046767359311	-0.000741316596676	-0.000023559503116
225	massimi	0.276439	0.156689	-10.841773	-0.000000675572486	0.000039581138328	-0.00000359461104
225	minimi	-0.008556	-0.228156	-11.941462	-0.000466653262708	-0.000594595711758	-0.000023703962224
226	massimi	0.242087	2.074519	-10.935967	-0.00022840867265	-0.000267324821653	-0.000150151743054
226	minimi	-2.232634	-0.730831	-11.583333	-0.000449342382456	-0.000520110651841	-0.000290840799142
227	massimi	0.276907	3.324649	-11.020494	0.000440821013827	0.00023503055301	-0.000306061606307
227	minimi	-3.918222	-1.145434	-11.671628	-0.000820295772295	-0.001023789869988	-0.000547206916684
228	massimi	0.560666	4.169417	-11.078178	-0.000280747857836	0.000087848664138	-0.000415184476057

228	minimi	-4.876507	-1.283889	-11.731931	-0.000492950385816	-0.000232388821911	-0.000727554416429
229	massimi	0.273596	0.122135	-3.795922	-0.001494968196275	-0.00023723705297	0.000046021791231
229	minimi	-0.094912	-0.316119	-4.301837	-0.001756229868868	-0.00078063006174	0.000000953076896
230	massimi	0.309193	-0.140441	-3.795922	-0.001494968196252	-0.000237237052956	0.000046021791216
230	minimi	0.022171	-0.541223	-4.301837	-0.001756229868841	-0.000780630061727	0.000000953076895
231	massimi	0.334819	-0.156841	-3.234074	-0.001495457242468	-0.000210860504339	0.000041209090499
231	minimi	0.022853	-0.550241	-3.36756	-0.001754373864737	-0.000748956786142	0.000000218208044
232	massimi	0.335441	-0.122942	-2.262875	-0.001493836259568	-0.000256381473043	0.000042273518105
232	minimi	0.02329	-0.528782	-3.036135	-0.001753298989112	-0.000788506290302	0.000001391534904
233	massimi	0.280918	-0.122706	-4.268503	-0.00145036434737	-0.000260796616166	0.000043224437437
233	minimi	0.020881	-0.528504	-5.191256	-0.001705785369204	-0.000792702064945	0.000001528412409
234	massimi	0.281544	-0.157072	-5.221757	-0.001448903544463	-0.000206445241348	0.000042158945623
234	minimi	0.021314	-0.550525	-5.540626	-0.001704550313586	-0.000744761131366	0.000000356149757
235	massimi	0.243257	2.494238	-3.968224	-0.00129082774622	-0.000836676470905	-0.000189193461518
235	minimi	-2.231464	-0.376151	-4.504041	-0.001445716087849	-0.001140111029411	-0.000329882517606
236	massimi	0.606887	4.255722	-4.030217	-0.000470095896321	0.000608521143556	-0.000639875971959
236	minimi	-3.588242	-0.274803	-4.578628	-0.0011999763053	-0.00062363142222	-0.000881021282336
237	massimi	0.555245	5.682146	-4.060362	-0.001224109213676	-0.000990514644855	-0.000518127597926
237	minimi	-4.881928	0.173445	-4.613465	-0.001435543857042	-0.001356885042098	-0.000830497538298
238	massimi	0.125372	0.116618	0.354224	-0.00052073335315	-0.000206133081185	0.000070434844855
238	minimi	-0.159585	-0.313463	0.088301	-0.000838684023403	-0.000566837839483	0.000000243762952
239	massimi	-0.186659	2.49541	0.302602	-0.001117424809051	-0.000743579711043	-0.000017663556309
239	minimi	-2.819071	-0.374978	-0.167251	-0.001316667449003	-0.000963356436622	-0.000158352612398
240	massimi	-0.370382	4.374321	0.276922	0.000318063737821	0.000148980124754	-0.000012695069651
240	minimi	-4.86042	-0.156204	-0.199899	-0.000936445815022	-0.001189744075056	-0.000253840380028
241	massimi	-0.636286	5.68854	0.26065	-0.001005948350979	-0.000792247746857	-0.0000088608001
241	minimi	-6.436409	0.179839	-0.221055	-0.001280753464412	-0.001145365696434	-0.000321230740473
242	massimi	0.274936	0.128964	-7.958576	0.000017461490548	-0.000435901150272	0.000019762380935
242	minimi	-0.102934	-0.16914	-8.082658	-0.000904209305609	-0.000890944476721	-0.000017945363544
243	massimi	0.340542	-0.006591	-7.958576	0.000017461490548	-0.000435901150254	0.000019762380929
243	minimi	0.030487	-0.166597	-8.082658	-0.000904209305595	-0.000890944476706	-0.000017945363539
244	massimi	0.340157	-0.008699	-7.756336	-0.00003418935736	-0.000379671704233	0.000017719856476
244	minimi	0.030587	-0.164708	-8.422214	-0.000941582057036	-0.000827341564635	-0.000016946378758
245	massimi	0.340336	-0.004202	-6.924863	-0.000032435323167	-0.000478841809081	0.000017927051684
245	minimi	0.030678	-0.16762	-7.555644	-0.000939821891739	-0.000927387943307	-0.000016585034424
246	massimi	0.338672	-0.003947	-7.527026	0.00006682602123	-0.000479715735365	0.000018537375532
246	minimi	0.029912	-0.167298	-8.088304	-0.000841032367873	-0.000928862601256	-0.000015977351004
247	massimi	0.338852	-0.00895	-8.324048	0.000068580278451	-0.000378798117352	0.000018329960188
247	minimi	0.03	-0.165033	-8.989325	-0.000839272425604	-0.000825866567283	-0.000016338475203
248	massimi	0.240236	2.557294	-8.091786	-0.000254427621074	-0.000783799115821	0.000233698455865
248	minimi	-2.234485	-0.270825	-8.217469	-0.000971848464238	-0.000966847193985	0.000093009399777
249	massimi	0.523643	4.351299	-8.165198	0.000023177333743	0.000533462635389	0.000479594336892
249	minimi	-3.671486	-0.129168	-8.291691	-0.001005511803394	-0.000775471837062	0.000238449126515
250	massimi	0.553393	5.581358	-8.215068	-0.000344551319057	-0.000863872356957	0.00065259056419
250	minimi	-4.88378	0.12932	-8.342125	-0.001002137875255	-0.001063195648439	0.000340220623817
251	massimi	0.12716	0.080506	-3.09238	-0.000168297172411	-0.001430055836949	0.000049000545323
251	minimi	-0.163075	-0.058275	-3.373448	-0.000789468457877	-0.00158258673768	-0.000006068523018
252	massimi	0.345009	-0.037719	-3.09238	-0.000168297172408	-0.001430055836917	0.000049000545308
252	minimi	0.070972	-0.083716	-3.373448	-0.000789468457864	-0.001582586737652	-0.000006068523016
253	massimi	0.360539	-0.034041	-3.494779	-0.00018659220553	-0.001391807103691	0.000044463862084
253	minimi	0.079501	-0.112199	-4.234725	-0.000796323184319	-0.001540425632296	-0.000005964403337
254	massimi	0.36064	-0.037734	-1.636425	-0.000182467799541	-0.001424708411299	0.000044737324597
254	minimi	0.079589	-0.058089	-2.237624	-0.00079246849554	-0.001576505083057	-0.000005839222726
255	massimi	0.327592	-0.037501	-2.450257	-0.000148995947255	-0.001426153480067	0.00004543305734
255	minimi	0.061385	-0.057675	-2.649501	-0.000762402006693	-0.00157759669182	-0.000005169377403
256	massimi	0.327691	-0.034356	-4.338706	-0.000144871401127	-0.001390363602268	0.000045159565897
256	minimi	0.061474	-0.112531	-4.616507	-0.000758547458053	-0.001539332456187	-0.000005294529083
257	massimi	-0.187206	2.586872	-3.297749	-0.000448906713793	-0.001040917910605	0.00013203326877
257	minimi	-2.819618	-0.241247	-3.606076	-0.001101288006825	-0.001139111395297	-0.000008655787319
258	massimi	-0.329558	4.475973	-3.371855	0.000110557805473	0.000304172490134	0.000293029699238
258	minimi	-4.819596	-0.004494	-3.683314	-0.00092258257384	-0.001122261009233	0.00005188438886
259	massimi	-0.632655	5.429394	-3.42213	0.000011021762185	-0.001141864917987	0.000406415503803
259	minimi	-6.432778	-0.022644	-3.735778	-0.000665704527546	-0.001297974562416	0.00009404556343
260	massimi	6.296182	4.473162	-5.856147	0.000633414580661	0.000716379293351	0.000295205989302
260	minimi	-4.587616	-5.471349	-6.963397	-0.000299368061862	0.000435583100394	-0.000123888002994
261	massimi	6.660887	4.394561	-6.798485	0.000499258850697	0.001374782433626	0.000367007609426
261	minimi	-2.452427	-5.54995	-7.67927	-0.000227984306352	0.001168346756222	-0.000052086382869
262	massimi	6.22128	4.115649	-6.348386	0.00071911082992	-0.000352436337299	0.000338348023787
262	minimi	-4.662518	-4.120593	-7.476766	-0.000203449337804	-0.000633556570266	-0.000080745968508

263	massimi	6.622808	4.215555	-9.599351	0.000611322891888	-0.000803896314175	0.00040015519025
263	minimi	-2.490507	-4.020687	-9.998156	-0.000099592120976	-0.001029819978007	-0.000018938802045
264	massimi	6.963972	4.131113	-10.906286	0.000461263007023	-0.000769462497703	0.000310057945381
264	minimi	-0.441154	-4.105129	-11.245368	-0.000244455901614	-0.000945119646575	-0.000109036046914
265	massimi	6.996108	4.501167	-6.945239	0.000402711173748	0.001466153212258	0.000302108291631
265	minimi	-0.409017	-5.443344	-7.654155	-0.000308331349948	0.001304392619108	-0.000116985700664
266	massimi	6.792386	4.701656	-6.909243	0.00038869736471	0.001478562217057	0.000164065126005
266	minimi	0.027976	-5.242856	-7.638138	-0.000321959788199	0.001329226051295	-0.00025502886629
267	massimi	6.760244	4.003349	-11.159313	0.000409808602491	-0.000757943052436	0.000186778222668
267	minimi	-0.004165	-4.232893	-11.459235	-0.000293566017591	-0.0009185394151	-0.000232315769627
268	massimi	5.906438	4.805325	-6.854775	0.000345492726564	0.001443570164019	0.000098273571473
268	minimi	-0.651364	-5.139186	-7.593637	-0.000368066809935	0.001288866629682	-0.000320820420822
269	massimi	5.871581	3.943174	-10.850135	0.000324702218886	-0.000751854074968	0.000118487935362
269	minimi	-0.686222	-4.293068	-11.247688	-0.000374398307556	-0.000919298222103	-0.000300606056933
270	massimi	5.170383	4.667885	-6.575036	0.000418597138711	0.000889401318689	0.00021219854206
270	minimi	-1.671094	-5.276626	-7.584268	-0.000507301784451	0.000707700172665	-0.000206895450235
271	massimi	5.108569	3.964708	-9.598673	0.000428082636834	-0.000304312723261	0.00012207695202
271	minimi	-1.732907	-4.271534	-10.198473	-0.000495118869438	-0.000498564204685	-0.000297017040275
272	massimi	0.301374	0.124299	-7.831137	0.000514554505785	0.000465854208543	0.000013869307383
272	minimi	-0.250728	-0.103733	-8.114965	-0.000379327962702	-0.000338041037301	-0.000006127020415
273	massimi	0.231592	0.06748	-7.831137	0.000514554505777	0.000465854208543	0.000013869307378
273	minimi	-0.200119	-0.02663	-8.114965	-0.000379327962696	-0.000338041037303	-0.000006127020413
274	massimi	0.227446	0.065679	-7.544405	0.000457529831305	0.000508820008553	0.000013060490047
274	minimi	-0.191441	-0.029544	-8.263072	-0.000424331709026	-0.000282639399121	-0.000005943094716
275	massimi	0.227406	0.069642	-7.726247	0.000457353448325	0.00040868716722	0.000013012123448
275	minimi	-0.191465	-0.024347	-8.2448	-0.000424493843935	-0.000383137755478	-0.000006028830589
276	massimi	0.234254	0.069643	-7.379923	0.000556069924335	0.000408700950631	0.000012385532624
276	minimi	-0.207458	-0.024299	-8.418067	-0.000322598756843	-0.000382793386412	-0.000005298919165
277	massimi	0.234215	0.065585	-7.393631	0.000555893469496	0.000508806671435	0.000012433705986
277	minimi	-0.207482	-0.029499	-8.240789	-0.000322760819893	-0.000282984214481	-0.000005212990055
278	massimi	2.070638	1.210317	-7.937709	0.00061815087869	0.000113573052398	0.000076059721861
278	minimi	-1.595249	-1.628599	-8.226344	-0.000341583911754	-0.000086237084312	-0.000064629334227
279	massimi	0.27342	0.134605	-11.365035	0.000491103273774	0.000520948312283	0.000011945790695
279	minimi	-0.233808	-0.116737	-11.519045	-0.000406914253561	-0.000126158966437	-0.000006780790367
280	massimi	0.195317	0.073606	-11.365035	0.000491103273766	0.000520948312282	0.000011945790692
280	minimi	-0.214923	-0.04311	-11.519045	-0.000406914253555	-0.000126158966442	-0.000006780790365
281	massimi	0.191116	0.072484	-10.841402	0.000410199710129	0.000586369306401	0.000011191973365
281	minimi	-0.207561	-0.045176	-11.633109	-0.000474021448486	-0.000050235615365	-0.000006371878423
282	massimi	0.191081	0.074647	-11.14662	0.000409659577959	0.000439647236713	0.000011260821299
282	minimi	-0.207574	-0.041165	-11.833127	-0.000474526930433	-0.00019823719401	-0.000006540838301
283	massimi	0.198276	0.074609	-11.029705	0.000557576329057	0.000439597916376	0.0000107407889
283	minimi	-0.220865	-0.041157	-11.842299	-0.000326897396801	-0.000197964895953	-0.000006085168157
284	massimi	0.198241	0.072471	-10.836122	0.000557036243501	0.000586418488315	0.000010656151344
284	minimi	-0.220878	-0.045133	-11.530647	-0.000327402925361	-0.000050507774998	-0.000005900418657
285	massimi	2.067822	1.277863	-11.541283	0.000537280215436	0.000182629086479	0.000061635129008
285	minimi	-0.998095	-1.561053	-11.698876	-0.000341705784199	0.000034274706647	-0.00007905392708
286	massimi	0.226672	0.131983	-11.623544	0.000451511705846	0.000562244065175	0.000011849157884
286	minimi	-0.172853	-0.120605	-11.744903	-0.000443777526668	0.000027014110007	-0.000005483538535
287	massimi	0.142361	0.065439	-11.623544	0.000451511705839	0.000562244065171	0.00001184915788
287	minimi	-0.17693	-0.052901	-11.744903	-0.000443777526661	0.00002701411	-0.000005483538534
288	massimi	0.140025	0.064241	-11.018424	0.000369853686688	0.000628945894346	0.000011002579725
288	minimi	-0.170684	-0.055557	-11.762385	-0.000511996582368	0.000101880425476	-0.000005086072012
289	massimi	0.140007	0.066697	-11.457228	0.000369031559708	0.000478402951485	0.000011122364409
289	minimi	-0.170686	-0.050389	-12.07769	-0.000512735127359	-0.000048676164981	-0.000005247016275
290	massimi	0.144302	0.066651	-11.404386	0.000520227957064	0.000478265153775	0.000010737276103
290	minimi	-0.182532	-0.050396	-12.120634	-0.000361291803684	-0.000048517883013	-0.000004975411063
291	massimi	0.14428	0.064279	-11.064715	0.000519405852527	0.00062908383498	0.000010617658277
291	minimi	-0.18253	-0.055541	-11.706196	-0.000362030371117	0.000101722000584	-0.000004814633658
292	massimi	2.038398	1.400781	-11.80419	0.000458267086335	0.000223944996346	0.000074102727737
292	minimi	-0.449201	-1.438135	-11.927753	-0.000418933379771	0.000085167160242	-0.000066586328352
293	massimi	0.192042	0.127613	-11.569715	0.000446148090289	0.000547862731743	0.000014387155695
293	minimi	-0.170717	-0.12623	-11.851012	-0.000449165259206	0.000052864136837	-0.000003501669288
294	massimi	0.109878	0.060261	-11.569715	0.000446148090282	0.000547862731738	0.000014387155691
294	minimi	-0.178662	-0.059331	-11.851012	-0.000449165259199	0.000052864136831	-0.000003501669287
295	massimi	0.11239	0.057659	-11.030642	0.000364186468965	0.00061430697096	0.000013279858494
295	minimi	-0.174471	-0.063259	-11.787721	-0.00051725667212	0.000128154017639	-0.000003180167629
296	massimi	0.112383	0.063028	-11.440816	0.000363329210489	0.000464720202886	0.000013417963897
296	minimi	-0.174466	-0.055574	-12.146333	-0.000517990460871	-0.000024040315809	-0.000003321326699
297	massimi	0.106695	0.062952	-11.435796	0.000515367461754	0.000464624699721	0.000013116099126

297	minimi	-0.181723	-0.055605	-12.155214	-0.000366648572305	-0.000023952803726	-0.000003245263809
298	massimi	0.106688	0.057763	-11.030533	0.000514510448093	0.000614402006262	0.000012978206989
298	minimi	-0.181718	-0.063256	-11.791691	-0.00036738260587	0.000128066973419	-0.000003104318005
299	massimi	1.920046	1.411209	-11.749054	0.000441461073001	0.000230099667306	0.00009495504475
299	minimi	-0.375989	-1.427708	-12.035908	-0.000433878789702	0.000100984673937	-0.000045734011338
300	massimi	0.140622	0.119658	-11.585806	0.000430104771299	0.000471022749709	0.00001592262685
300	minimi	-0.193331	-0.131841	-11.721165	-0.000466256800611	-0.000014532193454	-0.000001272330471
301	massimi	0.069977	0.049752	-11.585806	0.000430104771293	0.000471022749704	0.000015922626845
301	minimi	-0.191159	-0.067358	-11.721165	-0.000466256800604	-0.00001453219346	-0.000001272330471
302	massimi	0.073782	0.045788	-11.052921	0.000348967209645	0.000538966190996	0.000014715218735
302	minimi	-0.185863	-0.072142	-11.723884	-0.00053408574791	0.000060640609188	-0.000001106482899
303	massimi	0.073792	0.053771	-11.336188	0.000348282127096	0.000388721134475	0.00001481554295
303	minimi	-0.185846	-0.062511	-12.024815	-0.000534609697404	-0.000089262710994	-0.000001149012025
304	massimi	0.065753	0.053652	-11.366353	0.000498816144458	0.000388612784926	0.000014563047225
304	minimi	-0.19526	-0.062581	-12.040916	-0.00038369055604	-0.000089250111425	-0.000001294332071
305	massimi	0.065763	0.045967	-11.039751	0.000498131049268	0.000539074826346	0.000014397366069
305	minimi	-0.195243	-0.072133	-11.78332	-0.000384214492894	0.000060627723819	-0.000001186446004
306	massimi	1.577852	1.464779	-11.765839	0.000399607150616	0.000235846871119	0.000108200940572
306	minimi	-0.655303	-1.374138	-11.903717	-0.00047596191445	0.000112466201693	-0.000032488115516
307	massimi	0.123278	0.150992	-6.03533	0.000424758748391	0.00065352567348	0.000007429882465
307	minimi	-0.165644	-0.06334	-7.417093	-0.000298927286283	-0.000338706400574	-0.000010097331979
308	massimi	0.123154	0.145266	-6.404375	0.000415240974178	0.000591273175791	0.000007469798224
308	minimi	-0.165649	-0.059327	-7.198942	-0.000308608267653	-0.000411349090454	-0.000010462484974
309	massimi	0.123019	0.139266	-6.676982	0.000425073974061	0.000524644859114	0.000007631361773
309	minimi	-0.165655	-0.055216	-6.999547	-0.000301140781554	-0.000480948149325	-0.000010627269731
310	massimi	0.127417	0.133167	-6.399724	0.000454876973345	0.000486171439286	0.000007505579871
310	minimi	-0.16841	-0.051102	-7.19138	-0.000268686469233	-0.000518890953283	-0.000010609529301
311	massimi	0.131767	0.133213	-6.204371	0.000489313622109	0.000485527525044	0.000007511622148
311	minimi	-0.171099	-0.051167	-7.26313	-0.000232046889526	-0.000517153109107	-0.000010516409505
312	massimi	0.136025	0.133198	-5.971179	0.000521719291657	0.000486188422879	0.000007341403661
312	minimi	-0.173663	-0.051201	-7.337811	-0.00019444452488	-0.000516544758801	-0.000010493200505
313	massimi	0.140247	0.13929	-5.85601	0.000551494086145	0.000524660365747	0.000007146827962
313	minimi	-0.176174	-0.055291	-7.254267	-0.000161978493512	-0.000478628563811	-0.000010283937194
314	massimi	0.140102	0.145266	-5.879397	0.000558928013067	0.000591273175791	0.000007521559858
314	minimi	-0.176166	-0.059327	-7.157256	-0.000153381555458	-0.000411349090454	-0.000010499169584
315	massimi	0.139985	0.150965	-5.737562	0.000551843443648	0.000653514616156	0.000006944976887
315	minimi	-0.176182	-0.063263	-7.14861	-0.000164226120617	-0.000341030435398	-0.000009753627676
316	massimi	0.135888	0.15658	-5.562749	0.000521986805948	0.00068767271844	0.000007062418003
316	minimi	-0.173667	-0.067201	-7.297322	-0.000196201490136	-0.000300115199415	-0.000009759962353
317	massimi	0.131767	0.156603	-5.638595	0.000489313622109	0.000686900892897	0.000007490022792
317	minimi	-0.171099	-0.067251	-7.379957	-0.000232046889526	-0.000298508885786	-0.000010459632377
318	massimi	0.127554	0.156616	-5.637829	0.000454623628754	0.000687682635226	0.000007226768813
318	minimi	-0.168405	-0.067305	-7.504355	-0.000266943673677	-0.000297761938124	-0.000009876465749
319	massimi	0.189065	0.170527	-7.005486	0.000376523354325	0.000617604359223	0.000009956461676
319	minimi	-0.103852	-0.004442	-7.25545	-0.000247352885995	-0.000388291543928	-0.000000827504426
320	massimi	0.188953	0.174574	-6.829182	0.000365927754352	0.000544523918936	0.000009835686975
320	minimi	-0.104022	-0.002735	-7.526263	-0.000256617247826	-0.000459128216776	-0.000000630721243
321	massimi	0.188853	0.178413	-6.550495	0.000375574892468	0.000467413163555	0.000009528237075
321	minimi	-0.104179	-0.001177	-7.816805	-0.000247305381628	-0.000526566856203	-0.00000105604152
322	massimi	0.18896	0.182148	-6.20476	0.000407471443857	0.000423520016435	0.000009334008188
322	minimi	-0.109056	0.000381	-8.007683	-0.000213073887397	-0.000563601457308	-0.00000090313389
323	massimi	0.189001	0.182174	-6.157558	0.00044452381523	0.000423704117021	0.000009836714124
323	minimi	-0.113872	0.000429	-7.92564	-0.000174940868899	-0.000562512492439	-0.000000675002069
324	massimi	0.188899	0.182176	-5.996204	0.00047973922197	0.000425060788765	0.000009225773152
324	minimi	-0.118608	0.000484	-7.92062	-0.000136090221756	-0.00056266591784	-0.000000703503977
325	massimi	0.188718	0.178434	-6.08045	0.000511621301066	0.000468934772902	0.000009208494218
325	minimi	-0.123327	-0.001102	-7.69349	-0.000101861523074	-0.000525641585703	-0.000000466584287
326	massimi	0.188607	0.174574	-6.252874	0.000519064598505	0.000544523918936	0.000009869986351
326	minimi	-0.123477	-0.002735	-7.50878	-0.000091676223889	-0.000459128216776	-0.000000693819184
327	massimi	0.188508	0.170497	-6.231851	0.000510653234035	0.000616085635023	0.000009634261287
327	minimi	-0.123656	-0.004509	-7.435724	-0.000101794413532	-0.000389219699575	-0.000000235589661
328	massimi	0.188788	0.16633	-6.292121	0.000478983274406	0.000655984981976	0.000009815866518
328	minimi	-0.11878	-0.006318	-7.411636	-0.000136041198614	-0.000348844765369	-0.000000385309811
329	massimi	0.189001	0.16638	-6.478508	0.00044452381523	0.000656023253076	0.000009882455239
329	minimi	-0.113872	-0.00627	-7.391609	-0.000174940868899	-0.000347886134514	-0.000000650408452
330	massimi	0.189071	0.166371	-6.625473	0.00040821924885	0.000657521170723	0.000009925248068
330	minimi	-0.108884	-0.00623	-7.373903	-0.000213114767968	-0.000347904642316	-0.000000586086238
331	massimi	0.091162	0.143471	-7.480035	0.000286817190994	0.00064491869284	0.000010074039627
331	minimi	-0.181705	-0.099476	-8.928892	-0.000330677266016	-0.000175627515814	-0.000007084794184

332	massimi	0.091061	0.140187	-7.796294	0.000274135933294	0.000564679758771	0.000010223716544
332	minimi	-0.181677	-0.094364	-8.847799	-0.000342363400426	-0.000266434260871	-0.000007430278653
333	massimi	0.090954	0.13665	-8.053983	0.000285858102946	0.000480260242891	0.000010396251565
333	minimi	-0.181641	-0.089093	-8.726424	-0.000332864784834	-0.000355268683598	-0.000007582140996
334	massimi	0.094171	0.133016	-8.184905	0.000325716930552	0.00043168726711	0.000010276195934
334	minimi	-0.186423	-0.083801	-8.642622	-0.000293163617177	-0.000404501370246	-0.000007608344629
335	massimi	0.097364	0.133014	-8.147863	0.000371571130325	0.000430885032932	0.000010276509507
335	minimi	-0.191132	-0.083879	-8.634428	-0.0004248411914514	-0.000403328191957	-0.000007472547122
336	massimi	0.100502	0.132964	-8.001955	0.000415882584352	0.00043128842702	0.00001009539461
336	minimi	-0.195706	-0.083912	-8.690519	-0.000202628834085	-0.000402971225088	-0.000007541612892
337	massimi	0.103621	0.136613	-7.900959	0.00045571910142	0.00047986602006	0.000009862674289
337	minimi	-0.200229	-0.089177	-8.608371	-0.000162913247979	-0.000353756601047	-0.000007385191545
338	massimi	0.103505	0.140187	-7.843539	0.000465621285891	0.000564679758771	0.000010280702978
338	minimi	-0.200178	-0.094364	-8.52928	-0.000152202442571	-0.000266434260871	-0.000007451321038
339	massimi	0.103409	0.143506	-7.547607	0.00045479072446	0.000645313355004	0.000009540299237
339	minimi	-0.200161	-0.09939	-8.590242	-0.000165131477885	-0.000177140037699	-0.000006887681618
340	massimi	0.100391	0.14673	-7.227195	0.000415148275707	0.000689764900875	0.000009649641566
340	minimi	-0.195671	-0.104404	-8.721141	-0.000204363466959	-0.000125978802653	-0.000006853651266
341	massimi	0.097364	0.146717	-7.221973	0.000371571130325	0.000688802998571	0.000010241989616
341	minimi	-0.191132	-0.104463	-8.816131	-0.000248411914514	-0.000124977205716	-0.000007419270354
342	massimi	0.09428	0.146685	-7.18656	0.000326463992449	0.000689365362972	0.000009830519159
342	minimi	-0.186458	-0.104521	-8.896829	-0.000291441737555	-0.000124447959681	-0.000006920459273
343	massimi	0.172757	0.167182	-9.889819	0.000255814312474	0.000655221798184	0.000011858127714
343	minimi	-0.123409	-0.03196	-10.567139	-0.000286091370262	-0.000194818740229	-0.000003114175563
344	massimi	0.172673	0.171039	-10.073369	0.000239841034621	0.000547588039106	0.000011769920714
344	minimi	-0.123558	-0.030318	-10.597475	-0.000300396201698	-0.000304919789284	-0.000002971995846
345	massimi	0.172596	0.174616	-9.991646	0.000254073637757	0.000435900116315	0.000011504960837
345	minimi	-0.12369	-0.028688	-10.767568	-0.000286910938878	-0.000412763424148	-0.000003298839653
346	massimi	0.173939	0.178202	-9.787698	0.000304317197035	0.000372397712024	0.000011292927939
346	minimi	-0.129641	-0.027159	-10.93197	-0.000236320386156	-0.000472913556714	-0.000003147196728
347	massimi	0.175224	0.178208	-9.77398	0.00036204977918	0.000372398714556	0.000011782083666
347	minimi	-0.135527	-0.027125	-10.873909	-0.000179552485737	-0.000472159259365	-0.000003014528297
348	massimi	0.176385	0.178189	-9.723971	0.000418281198212	0.000373512523893	0.000011150359117
348	minimi	-0.14132	-0.027077	-10.795575	-0.000122041169648	-0.000472352000672	-0.000002956335291
349	massimi	0.177484	0.174607	-9.736235	0.000468503292137	0.00043700153038	0.000011084065671
349	minimi	-0.147096	-0.028627	-10.621297	-0.000071440841238	-0.000412208394599	-0.000002735428705
350	massimi	0.177396	0.171039	-9.792718	0.000480945565141	0.000547588039106	0.000011814936457
350	minimi	-0.14722	-0.030318	-10.476152	-0.00005706588316	-0.000304919789284	-0.000003032228612
351	massimi	0.177324	0.167184	-9.612016	0.00046676070466	0.00065412090094	0.000011437075239
351	minimi	-0.147378	-0.032013	-10.443259	-0.000072258497095	-0.000195374286597	-0.000002550607306
352	massimi	0.176301	0.16322	-9.409901	0.000416914248134	0.00071360877987	0.000011641479593
352	minimi	-0.141468	-0.033714	-10.504175	-0.000122683080765	-0.000133002868312	-0.000002703646916
353	massimi	0.175224	0.163248	-9.50504	0.00036204977918	0.000713398673091	0.000011818951972
353	minimi	-0.135527	-0.033678	-10.537341	-0.000179552485737	-0.000132458060623	-0.000002993798547
354	massimi	0.174023	0.163218	-9.558092	0.000305683352619	0.000714722770901	0.000011784260138
354	minimi	-0.129494	-0.033643	-10.556106	-0.000235677680545	-0.000132440491431	-0.000002894720077
355	massimi	0.240822	0.311785	-9.713415	0.000196421184892	0.000585218315205	0.000034007191745
355	minimi	-0.111763	-0.075894	-11.181865	-0.000557513882694	-0.00033747844972	-0.000001400105682
356	massimi	0.240813	0.319488	-9.596124	0.000190129177631	0.00053190505639	0.000033979446698
356	minimi	-0.111898	-0.07294	-11.362051	-0.00056333198176	-0.000383237082937	-0.000000986595158
357	massimi	0.240794	0.327013	-9.465284	0.000196043979371	0.000477735673878	0.00003351980683
357	minimi	-0.112005	-0.069963	-11.52653	-0.000557576850058	-0.00042837904192	-0.000001407666065
358	massimi	0.24091	0.334472	-9.415298	0.000228530466872	0.000441678704127	0.000033226955263
358	minimi	-0.122628	-0.066971	-11.688486	-0.000523662828927	-0.000458802882538	-0.000001226234076
359	massimi	0.240976	0.334479	-9.489289	0.000277394671241	0.000434789855718	0.000034003300427
359	minimi	-0.133194	-0.066925	-11.692666	-0.000473022042157	-0.000464380553014	-0.000001001371996
360	massimi	0.24091	0.334489	-9.507873	0.000325822421804	0.000441799083562	0.000032982274729
360	minimi	-0.143696	-0.06687	-11.722938	-0.000421629717787	-0.000459502471214	-0.000000765180533
361	massimi	0.240784	0.327023	-9.548114	0.000358133113959	0.000477846560807	0.000033079442344
361	minimi	-0.154209	-0.069903	-11.697968	-0.000387404583605	-0.000429025074699	-0.000000577844669
362	massimi	0.240776	0.319488	-9.627291	0.000363584945303	0.00053190505639	0.000033995389025
362	minimi	-0.154323	-0.07294	-11.585185	-0.000380860456805	-0.000383237082937	-0.000001016637913
363	massimi	0.240758	0.311774	-9.689956	0.000357748125233	0.00058510840118	0.000033566932071
363	minimi	-0.154453	-0.075954	-11.459593	-0.000387459767763	-0.000336833389845	-0.000000570389098
364	massimi	0.240894	0.303978	-9.805766	0.00032546815675	0.000620790144969	0.000033859686313
364	minimi	-0.14384	-0.078961	-11.231812	-0.000421682139428	-0.000306093095223	-0.000000751723763
365	massimi	0.240976	0.304002	-9.858501	0.000277394671241	0.000626912390296	0.000033971535113
365	minimi	-0.133194	-0.078909	-11.130196	-0.000473022042157	-0.000300575794966	-0.000001001860893
366	massimi	0.240927	0.303997	-9.874096	0.00022888042333	0.000620908766869	0.000034104261848

366	minimi	-0.122484	-0.078861	-11.036456	-0.00052360609869	-0.000306790926364	-0.000001212672306
367	massimi	0.056207	0.130671	-7.682983	0.00022907018965	0.000642439291219	0.000010631881031
367	minimi	-0.158094	-0.119957	-8.914534	-0.000374162225943	-0.000024835907477	-0.000008435940983
368	massimi	0.056171	0.127057	-7.992286	0.000215565657338	0.000559566833902	0.000010887722474
368	minimi	-0.158076	-0.115014	-8.931778	-0.0003861402649	-0.000116551773597	-0.000008865191664
369	massimi	0.056135	0.123232	-8.242347	0.000226691883141	0.000472551999148	0.000011029572106
369	minimi	-0.15806	-0.109884	-8.906969	-0.00037645790191	-0.000207405419782	-0.000008879661427
370	massimi	0.057176	0.119323	-8.449353	0.000267595540724	0.000422420833116	0.000010953599003
370	minimi	-0.160286	-0.104723	-8.889639	-0.000335552455595	-0.000258152305405	-0.000008937260928
371	massimi	0.060082	0.119299	-8.483258	0.000314894931928	0.000421437583135	0.000010940188999
371	minimi	-0.164324	-0.10479	-8.864699	-0.000289501046284	-0.000257417675512	-0.000008898740604
372	massimi	0.063964	0.119228	-8.372885	0.000360886856816	0.000421642496166	0.000010803376947
372	minimi	-0.169253	-0.104808	-8.938261	-0.000242247608319	-0.000257140707538	-0.00000891385086
373	massimi	0.067872	0.123162	-8.21309	0.000401771409934	0.000471782896197	0.000010586239089
373	minimi	-0.174164	-0.109948	-8.880334	-0.00020132468479	-0.000206405828177	-0.000008810560009
374	massimi	0.067783	0.127057	-8.082996	0.000411354638346	0.000559566833902	0.000010935067234
374	minimi	-0.174088	-0.115014	-8.785135	-0.000190224644189	-0.000116551773597	-0.000008872577164
375	massimi	0.067716	0.130739	-7.78709	0.000399417986265	0.000643208452319	0.000010188452386
375	minimi	-0.174046	-0.11989	-8.754534	-0.000203645243597	-0.000025835557232	-0.000008366743937
376	massimi	0.063883	0.13434	-7.483812	0.000359035513415	0.000689259863576	0.000010253301222
376	minimi	-0.169192	-0.124743	-8.721988	-0.000244063640566	-0.000025750967674	-0.000008300117294
377	massimi	0.060082	0.134303	-7.46717	0.000314894931928	0.000688111834512	0.000010897589332
377	minimi	-0.164324	-0.124792	-8.77537	-0.000289501046284	-0.000026310397088	-0.00000885121121
378	massimi	0.057215	0.134251	-7.407588	0.000269457216465	0.00068848143427	0.000010403567912
378	minimi	-0.160304	-0.124835	-8.826058	-0.000333746755688	-0.000026762657896	-0.000008323571996
379	massimi	0.125999	0.140534	-10.891911	0.00014718441619	0.000626637047222	0.000011779426914
379	minimi	-0.103141	-0.064376	-11.540338	-0.000379310039965	-0.000045293633097	-0.000007698375441
380	massimi	0.125921	0.143463	-11.067997	0.000129441588353	0.000505830170537	0.000011781284555
380	minimi	-0.103192	-0.064741	-11.645286	-0.000395335989932	-0.000167165373563	-0.000007701021719
381	massimi	0.125849	0.14626	-11.029428	0.00014497643508	0.000381278642124	0.000011520724209
381	minimi	-0.103238	-0.065136	-11.824647	-0.000380675102668	-0.000287799983627	-0.000007740547036
382	massimi	0.126587	0.148993	-10.983314	0.000201511237261	0.000310381014414	0.00001134804124
382	minimi	-0.106104	-0.065522	-11.978169	-0.000324221598143	-0.000355607760185	-0.000007605781346
383	massimi	0.129628	0.148995	-11.026841	0.000266252539586	0.000310058700083	0.000011794411308
383	minimi	-0.111267	-0.065505	-11.163372	-0.000260876167112	-0.000355434413279	-0.000007730978021
384	massimi	0.133219	0.148975	-10.994045	0.000329889935556	0.000310722569951	0.000011228288474
384	minimi	-0.116996	-0.065473	-11.961542	-0.000196449152975	-0.000355899929903	-0.000007463692523
385	massimi	0.136802	0.146248	-11.02782	0.000386409100414	0.000381616065575	0.000011167306637
385	minimi	-0.122737	-0.0651	-11.814421	-0.000139980355504	-0.000288088608229	-0.000007321213781
386	massimi	0.136768	0.143463	-11.047241	0.000400627279509	0.000505830170537	0.000011819032
386	minimi	-0.122823	-0.064741	-11.654199	-0.000124029333323	-0.000167165373563	-0.000007745807265
387	massimi	0.136759	0.14054	-10.866684	0.000384199393826	0.000626299878641	0.000011425858457
387	minimi	-0.122941	-0.064406	-11.553731	-0.00014134369273	-0.000045005263365	-0.000007278891299
388	massimi	0.133187	0.137548	-10.646145	0.000328156431463	0.000693497393109	0.000011585943681
388	minimi	-0.117094	-0.064067	-11.464456	-0.000197519190628	-0.000024027222585	-0.000007405244935
389	massimi	0.129628	0.137569	-10.69632	0.000266252539586	0.000692938300198	0.000011822109553
389	minimi	-0.111267	-0.064056	-11.448852	-0.000260876167112	-0.000023966342066	-0.000007726454664
390	massimi	0.126665	0.137542	-10.679008	0.00020324402469	0.000693838543854	0.00001170576684
390	minimi	-0.106052	-0.064028	-11.437489	-0.000323150843826	-0.000023735457659	-0.000007547404152
391	massimi	0.180509	0.32536	-12.254076	0.000151779291085	0.000674161187929	0.000016502371542
391	minimi	-0.102669	-0.102794	-13.460564	-0.000359782766232	-0.000060131285431	-0.000007662069884
392	massimi	0.180463	0.328114	-12.224463	0.000143687391526	0.000609472895649	0.000016346474491
392	minimi	-0.102749	-0.10265	-13.667746	-0.000367383043863	-0.000118554214123	-0.000007481655287
393	massimi	0.180413	0.330679	-12.177607	0.000150938957298	0.000543803040762	0.000016053132549
393	minimi	-0.102821	-0.102458	-13.855799	-0.00036039593374	-0.000176786269767	-0.000007665451027
394	massimi	0.179252	0.333164	-12.15995	0.000192187482383	0.000500104323987	0.000015811896726
394	minimi	-0.10442	-0.102244	-14.033991	-0.000319069497481	-0.000215777644084	-0.000007547374626
395	massimi	0.180782	0.333174	-12.166103	0.000254346934816	0.000491820910496	0.000016366098035
395	minimi	-0.108704	-0.102212	-14.046943	-0.000257049401122	-0.000222874982403	-0.000007491245544
396	massimi	0.182376	0.333176	-12.151944	0.000316217125382	0.000500325954329	0.000015658974245
396	minimi	-0.113099	-0.102176	-14.043751	-0.000194735690217	-0.000216007275829	-0.00000724975637
397	massimi	0.183949	0.330686	-12.180972	0.000357380822968	0.000544007709266	0.000015776981705
397	minimi	-0.117521	-0.102418	-13.855947	-0.000153322557132	-0.000176998330967	-0.00000712885749
398	massimi	0.183947	0.328114	-12.224792	0.000364212114911	0.000609472895649	0.000016356515163
398	minimi	-0.117637	-0.10265	-13.67093	-0.000145910669359	-0.000118554214123	-0.000007501125381
399	massimi	0.18394	0.325353	-12.249989	0.000356514393698	0.000673956814587	0.000016224020977
399	minimi	-0.117759	-0.102834	-13.468164	-0.000153909629157	-0.000059919519393	-0.000007123276628
400	massimi	0.18237	0.322506	-12.29432	0.00031541800429	0.000717217434636	0.000016464555235
400	minimi	-0.11324	-0.102997	-13.263299	-0.000195279495189	-0.000020829013749	-0.000007240651463

401	massimi	0.180782	0.322522	-12.310987	0.000254346934816	0.000724706513084	0.000016336890306
401	minimi	-0.108704	-0.102965	-13.263899	-0.000257049401122	-0.000013763487103	-0.000007491533812
402	massimi	0.179317	0.322518	-12.305735	0.000192965392294	0.000717438531794	0.000016619676659
402	minimi	-0.104337	-0.10293	-13.250129	-0.000318504481328	-0.000021058112311	-0.000007540468661
403	massimi	0.030212	0.128442	-7.752816	0.000221674297729	0.000611620223492	0.000005283885708
403	minimi	-0.168122	-0.123593	-8.833369	-0.000381913332043	-0.000007419491097	-0.000012788523475
404	massimi	0.030204	0.122068	-8.033822	0.000207957137308	0.000528515495749	0.000005433540049
404	minimi	-0.168101	-0.122005	-8.870576	-0.000393566391232	-0.000098848908011	-0.000013416481116
405	massimi	0.030185	0.115487	-8.22589	0.000218711194959	0.00044149949625	0.000005708068536
405	minimi	-0.168095	-0.12021	-8.895469	-0.000383483380133	-0.000189548376352	-0.000013212947682
406	massimi	0.033307	0.108802	-8.408483	0.000259468327318	0.000391564599756	0.000005659127268
406	minimi	-0.167031	-0.118376	-8.902589	-0.000342463158926	-0.000240422277583	-0.000013313644368
407	massimi	0.036459	0.108756	-8.473525	0.000306745474801	0.000390890067649	0.00000548058397
407	minimi	-0.165952	-0.118432	-8.854809	-0.00029649430555	-0.000240049820231	-0.000013444184206
408	massimi	0.039634	0.108653	-8.398723	0.000352749159623	0.000391329318749	0.000005528529681
408	minimi	-0.164789	-0.118451	-8.901108	-0.000249294553276	-0.000240092832288	-0.000013340577621
409	massimi	0.043173	0.115376	-8.202184	0.000393488051484	0.000441267084254	0.00000532265161
409	minimi	-0.163919	-0.120267	-8.896611	-0.00020825674847	-0.000189222919194	-0.000013292415971
410	massimi	0.043139	0.122068	-8.03681	0.000402737864656	0.000528515495749	0.000005474699117
410	minimi	-0.163889	-0.122005	-8.845008	-0.000196720082798	-0.000098848908011	-0.000013408001217
411	massimi	0.043123	0.12855	-7.741415	0.000390545881531	0.00061185237307	0.000004898392468
411	minimi	-0.163868	-0.123534	-8.822206	-0.000209847729376	-0.000007744685837	-0.00001286791545
412	massimi	0.039615	0.134945	-7.476443	0.000350436626695	0.00065792896794	0.000004941834752
412	minimi	-0.164771	-0.125021	-8.751347	-0.000250538894418	0.000043846598949	-0.000012753548869
413	massimi	0.036459	0.134874	-7.491784	0.000306745474801	0.000657090200183	0.00000543514792
413	minimi	-0.165952	-0.125072	-8.764441	-0.00029649430555	0.000044043379711	-0.000013398722304
414	massimi	0.033323	0.134801	-7.451893	0.000261789552717	0.000657694103776	0.000005072467973
414	minimi	-0.167047	-0.125101	-8.787138	-0.000341227510255	0.000044175627399	-0.00001272665125
415	massimi	0.094112	0.124178	-11.055737	0.000101496350769	0.000602955150843	0.000007340584367
415	minimi	-0.114912	-0.084437	-11.677689	-0.00042296666629	-0.000021557140533	-0.000010032246235
416	massimi	0.094078	0.124571	-11.224567	0.000083598150368	0.000480251906537	0.000007287171886
416	minimi	-0.114933	-0.086538	-11.788551	-0.000439207143664	-0.00014575217198	-0.000010166678293
417	massimi	0.094042	0.124834	-11.22936	0.000099348299052	0.000353993391401	0.000007174348592
417	minimi	-0.114961	-0.08859	-11.920705	-0.000424347715377	-0.00026886861522	-0.000010011368709
418	massimi	0.095816	0.125029	-11.216345	0.000156907809985	0.000281957596049	0.000007043732792
418	minimi	-0.115168	-0.090616	-12.083559	-0.000366806624376	-0.000338105305064	-0.000009928212156
419	massimi	0.097588	0.125023	-11.258567	0.000222695191235	0.000281271871201	0.000007298629575
419	minimi	-0.115368	-0.090617	-12.117267	-0.000302317880512	-0.000337949472263	-0.000010184487175
420	massimi	0.099325	0.124988	-11.246201	0.000287560039179	0.000281506586294	0.000006942601602
420	minimi	-0.115518	-0.090606	-12.141016	-0.000236575281787	-0.000338385686547	-0.000009848711106
421	massimi	0.101376	0.124804	-11.291945	0.000345105769927	0.000353547603527	0.000006875862625
421	minimi	-0.115972	-0.088583	-12.033371	-0.000179016030456	-0.000269145525709	-0.000009776715201
422	massimi	0.101337	0.124571	-11.295098	0.000359754449765	0.000480251906537	0.000007319191423
422	minimi	-0.115996	-0.086538	-11.893399	-0.00016266219067	-0.00014575217198	-0.000010191882164
423	massimi	0.101315	0.124204	-11.130375	0.000342956075917	0.000603401423156	0.000007040567776
423	minimi	-0.116031	-0.08444	-11.778304	-0.00018039543725	-0.000021280714484	-0.000009796062102
424	massimi	0.099289	0.123797	-10.903168	0.00028587360974	0.000671933192256	0.000007169910736
424	minimi	-0.115545	-0.082337	-11.649455	-0.00023765791479	0.000049024314095	-0.000009874992856
425	massimi	0.097588	0.123795	-10.918685	0.000222695191235	0.00067100627202	0.000007317759516
425	minimi	-0.115368	-0.08235	-11.6225	-0.000302317880512	0.000048941472641	-0.000010188050231
426	massimi	0.095852	0.123763	-10.863179	0.000158592837277	0.000671481413092	0.000007271598714
426	minimi	-0.115142	-0.082334	-11.602132	-0.000365723309226	0.000048744702021	-0.000009955050694
427	massimi	0.172917	0.22822	-13.450473	-0.000141756726873	0.000363193053169	0.000039269611098
427	minimi	-0.051177	-0.191154	-14.398598	-0.000642351670145	-0.000238846018539	-0.000032927918645
428	massimi	0.172926	0.232914	-13.366345	-0.000149922791143	0.000293388656202	0.000039547699991
428	minimi	-0.051207	-0.19375	-14.49931	-0.000650087769725	-0.000303474764814	-0.000032938856712
429	massimi	0.172908	0.237535	-13.263119	-0.000141819436384	0.000223111871426	0.000038988167946
429	minimi	-0.051211	-0.196298	-14.579403	-0.000642259097904	-0.000367614878265	-0.000032725096452
430	massimi	0.182241	0.242162	-13.251798	-0.00009684234718	0.000175971087042	0.000038833563167
430	minimi	-0.062588	-0.198849	-14.769312	-0.000597106631667	-0.000410731727337	-0.00003250753016
431	massimi	0.191539	0.242183	-13.342792	-0.00002950109007	0.000166738735181	0.000039560313204
431	minimi	-0.073961	-0.198807	-14.879783	-0.00052972212722	-0.000418701923527	-0.000032956599139
432	massimi	0.200745	0.242204	-13.413389	0.00003789519214	0.000175071851707	0.000038727916962
432	minimi	-0.085316	-0.198762	-14.970841	-0.000461491944812	-0.000411488227873	-0.00003216584602
433	massimi	0.209925	0.237561	-13.583452	0.000082904326034	0.00022228087135	0.000038798115029
433	minimi	-0.096686	-0.196247	-14.985926	-0.000415984702122	-0.000368313653816	-0.000032110191077
434	massimi	0.209917	0.232914	-13.684789	0.000091056245376	0.000293388656202	0.000039554576222
434	minimi	-0.096695	-0.19375	-14.907816	-0.000407272615981	-0.000303474764813	-0.000032961114881
435	massimi	0.209921	0.228193	-13.766325	0.00008283580081	0.000364024558845	0.000039079819965

435	minimi	-0.096725	-0.191204	-14.809602	-0.000415886314168	-0.000238147748588	-0.000032313275055
436	massimi	0.200742	0.223479	-13.785415	0.000037832932205	0.000411031447056	0.000039234860227
436	minimi	-0.085338	-0.188668	-14.611924	-0.000461402093957	-0.000194764066421	-0.00003253127683
437	massimi	0.191539	0.223512	-13.717524	-0.00002950109007	0.000418875210082	0.000039541963824
437	minimi	-0.073961	-0.188632	-14.518162	-0.00052972212722	-0.000187044208165	-0.000032943373269
438	massimi	0.182245	0.223525	-13.627574	-0.000096783306762	0.000410131298348	0.000039340244665
438	minimi	-0.062567	-0.188584	-14.406646	-0.000597193263004	-0.000195519653585	-0.000032872699202
439	massimi	-0.005666	0.125472	-7.728078	0.000204613089318	0.000514476012431	-0.00000036737697
439	minimi	-0.188802	-0.128314	-8.743393	-0.000404726888808	-0.000091035473341	-0.000021433210497
440	massimi	-0.005566	0.113166	-7.937785	0.000191313248139	0.000432145759095	-0.000000336138886
440	minimi	-0.188844	-0.129808	-8.739707	-0.0004154732321	-0.000181596848594	-0.000022400974963
441	massimi	-0.005484	0.100666	-8.071239	0.000201943810691	0.000346617878039	0.00000009123379
441	minimi	-0.188932	-0.131075	-8.712305	-0.000404700999361	-0.000270815702109	-0.000021828175019
442	massimi	-0.000834	0.088042	-8.202424	0.000241878657161	0.000297645608922	0.000000066346704
442	minimi	-0.181481	-0.132302	-8.682504	-0.000364041623331	-0.00032080118921	-0.000021981408359
443	massimi	0.005311	0.087976	-8.294883	0.000288113214671	0.000297037047983	-0.000000293582295
443	minimi	-0.175487	-0.132356	-8.629549	-0.00031895745016	-0.000320469087997	-0.000022423102343
444	massimi	0.011552	0.087828	-8.230212	0.000333151601188	0.000297312042691	-0.000000049292105
444	minimi	-0.169447	-0.132383	-8.688538	-0.000272549037996	-0.000320750949239	-0.000022072790285
445	massimi	0.017906	0.100507	-8.064644	0.000373069379452	0.00034628830639	-0.000000250021419
445	minimi	-0.163404	-0.131136	-8.786789	-0.000231870617251	-0.00027076608944	-0.000022097853378
446	massimi	0.017894	0.113166	-7.917025	0.000382287500517	0.000432145759095	-0.0000002997009
446	minimi	-0.163387	-0.129808	-8.828405	-0.000219533725562	-0.000181596848594	-0.000022372179403
447	massimi	0.01791	0.125631	-7.694386	0.000370420269392	0.00051480547453	-0.00000070857793
447	minimi	-0.163356	-0.128253	-8.844974	-0.000231864896371	-0.00009108497646	-0.000021702903831
448	massimi	0.011556	0.138007	-7.466254	0.000331069136626	0.000560624331875	-0.000000683470145
448	minimi	-0.169424	-0.126639	-8.827364	-0.000272540672163	-0.000039773602508	-0.000021526579605
449	massimi	0.005311	0.137887	-7.520466	0.000288113214671	0.000559853493895	-0.000000342695582
449	minimi	-0.175487	-0.126699	-8.778793	-0.00031895745016	-0.000039615045609	-0.000022380801337
450	massimi	-0.000843	0.137794	-7.480602	0.000243969495173	0.000560290939671	-0.000000567838383
450	minimi	-0.181499	-0.126721	-8.779193	-0.000364058362616	-0.000039723536564	-0.000021435190633
451	massimi	0.0686	0.102506	-10.823756	0.000052939562227	0.000518251330837	0.000006665701161
451	minimi	-0.113791	-0.105399	-11.407316	-0.000471495415621	-0.000099416403183	-0.000010589467726
452	massimi	0.068596	0.103521	-10.9311	0.000035984940006	0.000397929867201	0.000006690177717
452	minimi	-0.113773	-0.108902	-11.480183	-0.00048685118582	-0.000220401461004	-0.000010798575391
453	massimi	0.068594	0.10441	-10.859154	0.00005165066003	0.000274663284857	0.000006564285767
453	minimi	-0.113768	-0.112269	-11.59304	-0.000472079506364	-0.000339755845164	-0.000010467485179
454	massimi	0.069442	0.105248	-10.791261	0.000107749198713	0.000204322104917	0.00000647561313
454	minimi	-0.112441	-0.115602	-11.771442	-0.00041589569366	-0.000406890061719	-0.000010421203857
455	massimi	0.070323	0.105233	-10.887032	0.0001715574999	0.000203511725489	0.000006699974976
455	minimi	-0.111136	-0.115617	-11.806813	-0.000353254085042	-0.000406894250577	-0.000010802265813
456	massimi	0.071215	0.105197	-10.901834	0.000234655162901	0.000203427892998	0.000006408372522
456	minimi	-0.109808	-0.115621	-11.860114	-0.000289147415416	-0.000407664862634	-0.000010403612238
457	massimi	0.072147	0.104372	-11.043736	0.000290744468998	0.000273779225321	0.000006365754961
457	minimi	-0.108494	-0.112283	-11.808377	-0.00023294273175	-0.000340520961582	-0.000010415472937
458	massimi	0.072142	0.103521	-11.08017	0.000305560973916	0.0003979298867201	0.000006711405738
458	minimi	-0.108484	-0.108902	-11.731323	-0.000216425153856	-0.000220401461004	-0.000010804158995
459	massimi	0.072146	0.102542	-10.969564	0.000289453512678	0.000519137050781	0.000006466637092
459	minimi	-0.108475	-0.105382	-11.661428	-0.00023352476837	-0.000098652947173	-0.000010536922222
460	massimi	0.071214	0.101568	-10.749751	0.000233642604848	0.000586582467664	0.00000654815036
460	minimi	-0.109797	-0.101874	-11.569254	-0.000289604476592	-0.000029900432025	-0.000010571834014
461	massimi	0.070323	0.101557	-10.768751	0.0001715574999	0.000585534726961	0.000006710808532
461	minimi	-0.111136	-0.101906	-11.482122	-0.000353254085042	-0.000030136103486	-0.000010815301972
462	massimi	0.069444	0.101519	-10.689319	0.000108760903569	0.000585685618605	0.000006615640893
462	minimi	-0.112452	-0.101896	-11.430441	-0.000415437779287	-0.000030672595801	-0.000010589675558
463	massimi	0.22297	0.135157	-12.652008	-0.000257621314617	-0.00022880942553	0.000034578067007
463	minimi	0.029872	-0.268865	-13.555157	-0.000767311379935	-0.000699147013001	-0.000021065430745
464	massimi	0.223018	0.140228	-12.419396	-0.000264342344007	-0.000293849524506	0.000035100330652
464	minimi	0.029895	-0.269465	-13.464139	-0.000773634094392	-0.000759946413084	-0.000020814624076
465	massimi	0.223044	0.145262	-12.167676	-0.000256133947979	-0.000358415841196	0.000034670402341
465	minimi	0.029939	-0.269946	-13.355231	-0.000765678690608	-0.000819522317519	-0.000020898323818
466	massimi	0.229728	0.150317	-12.050131	-0.000214387024658	-0.0004019487029384	0.000034715034273
466	minimi	0.01878	-0.270378	-13.394775	-0.000723572141652	-0.000859787261563	-0.000020643311588
467	massimi	0.236348	0.150375	-12.182636	-0.000152545437583	-0.000410250682153	0.000035096728392
467	minimi	0.007602	-0.270309	-13.545009	-0.000661406408419	-0.000867093888781	-0.000020835432585
468	massimi	0.24284	0.150438	-12.293161	-0.000090452774354	-0.000403196564053	0.000034733279929
468	minimi	-0.0036	-0.270231	-13.680265	-0.000598180774083	-0.000860949057717	-0.000020171826312
469	massimi	0.24929	0.145334	-12.649893	-0.000048591851092	-0.000359569299189	0.000034703395033
469	minimi	-0.014826	-0.269859	-13.930956	-0.0005556252052	-0.000820595454663	-0.000020049833668

470	massimi	0.249327	0.140228	-12.899382	-0.000040129366529	-0.000293849524506	0.000035099129094
470	minimi	-0.014783	-0.269465	-14.042233	-0.000546567390569	-0.000759946413084	-0.000020845336923
471	massimi	0.249369	0.135084	-13.130264	-0.000047108218784	-0.000227655172239	0.000034611455787
471	minimi	-0.014764	-0.268951	-14.134843	-0.000553988781543	-0.000698074671155	-0.000020217336684
472	massimi	0.242886	0.129957	-13.258114	-0.000089081325369	-0.000183822925966	0.000034567638647
472	minimi	-0.003562	-0.268396	-14.084994	-0.000596669525619	-0.000657197126721	-0.000020473163706
473	massimi	0.236348	0.130026	-13.152618	-0.000152545437583	-0.000176279625763	0.000035102732879
473	minimi	0.007602	-0.26833	-13.944887	-0.000661406408419	-0.000649785263871	-0.000020824529939
474	massimi	0.229682	0.13008	-13.022235	-0.000215760541247	-0.000185072497463	0.000034548996855
474	minimi	0.018741	-0.268252	-13.792353	-0.000725081322511	-0.000658357486048	-0.000020944252846
475	massimi	-0.040318	0.074382	-6.706362	0.000192479924584	0.000452815801146	0.000010461674363
475	minimi	-0.255131	-0.136553	-8.114169	-0.000534353315488	-0.000172768996891	-0.000003323989103
476	massimi	-0.0402	0.0775	-6.855495	0.000180285937509	0.00037898667363	0.000010408380746
476	minimi	-0.255156	-0.135316	-8.087886	-0.000542770014327	-0.000253387249241	-0.000003571120189
477	massimi	-0.04008	0.08051	-6.934727	0.000189840599547	0.000302364438907	0.000010464562689
477	minimi	-0.255188	-0.13385	-8.042246	-0.000533039113593	-0.000332142353499	-0.000003105908474
478	massimi	-0.041312	0.083414	-7.107271	0.000226104997657	0.000258728020853	0.000010254722944
478	minimi	-0.257986	-0.13235	-7.988524	-0.000497251226855	-0.000376749901739	-0.000003217099057
479	massimi	-0.042493	0.083224	-7.326687	0.000268162909403	0.000258594193341	0.000010448885185
479	minimi	-0.26069	-0.13244	-7.893572	-0.000458282106837	-0.00037749065163	-0.00000353694615
480	massimi	-0.043606	0.083029	-7.502563	0.000309108296562	0.000259233498054	0.000010044832051
480	minimi	-0.263212	-0.132491	-7.801712	-0.000417411070475	-0.000379001759106	-0.000003376034867
481	massimi	-0.044664	0.080223	-7.392902	0.000345360308599	0.000302867183808	0.000009844810265
481	minimi	-0.265658	-0.133955	-8.002529	-0.000381598614753	-0.000334370723166	-0.000003574591052
482	massimi	-0.04454	0.0775	-7.240173	0.000353604305751	0.00037898667363	0.000010474653783
482	minimi	-0.265672	-0.135316	-8.12197	-0.000369618803741	-0.00025338724924	-0.000003521173594
483	massimi	-0.044424	0.074668	-7.000306	0.000342742928401	0.000452301650971	0.000009840147213
483	minimi	-0.265716	-0.136447	-8.238684	-0.000380306357697	-0.000170529221951	-0.000003790896956
484	massimi	-0.04348	0.071724	-6.768455	0.000307050410582	0.000493170271163	0.000010039181464
484	minimi	-0.263242	-0.137555	-8.222444	-0.000416392924024	-0.000124050941269	-0.000003675980623
485	massimi	-0.042493	0.071548	-6.725668	0.000268162909403	0.000492900827777	0.000010448484806
485	minimi	-0.26069	-0.137639	-8.181194	-0.000458282106837	-0.00012495679316	-0.000003560211461
486	massimi	-0.041437	0.071341	-6.641987	0.000228171995464	0.000493693860859	0.000010249904874
486	minimi	-0.257956	-0.137697	-8.14043	-0.000498278485132	-0.00012632091113	-0.000003517877329
487	massimi	0.109556	0.073694	-9.149116	0.0000404272757	0.000410325480574	0.0000102087475776
487	minimi	-0.129416	-0.12717	-9.884478	-0.000579699319058	-0.000220701172413	-0.000015356927992
488	massimi	0.109637	0.067197	-9.153557	0.000026421901692	0.000307118491971	0.000012601737575
488	minimi	-0.129405	-0.12273	-9.929718	-0.000591778300456	-0.000321985578878	-0.000015888510701
489	massimi	0.109735	0.060657	-9.028958	0.000040209139921	0.000201640620422	0.000012372104373
489	minimi	-0.12942	-0.11813	-9.986118	-0.000579324348496	-0.000420889024415	-0.000015429312418
490	massimi	0.10731	0.054154	-8.955188	0.000087945872393	0.000141547852638	0.000012433534837
490	minimi	-0.125278	-0.113533	-10.151706	-0.000532000170269	-0.000476808941561	-0.000015467702002
491	massimi	0.104932	0.054164	-9.112368	0.000141997944149	0.000140976226743	0.000012623444073
491	minimi	-0.121184	-0.113559	-10.206489	-0.00047984469388	-0.000477572163574	-0.000015897992876
492	massimi	0.102582	0.05413	-9.217826	0.000195507877529	0.000140946052244	0.000012447550664
492	minimi	-0.117105	-0.113537	-10.259544	-0.000425744304827	-0.000479310504728	-0.000015501488679
493	massimi	0.102283	0.060637	-9.462299	0.000243291256157	0.000201046468321	0.000012413395803
493	minimi	-0.11506	-0.118132	-10.296388	-0.000378445132352	-0.000423361351165	-0.000015528949378
494	massimi	0.102311	0.067197	-9.591425	0.0002563753852	0.000307118491971	0.0000125973483
494	minimi	-0.115004	-0.12273	-10.236001	-0.000363620777631	-0.000321985578878	-0.000015877891624
495	massimi	0.102351	0.073715	-9.553825	0.000243042657467	0.000410917927265	0.000012128413153
495	minimi	-0.114954	-0.12717	-10.22338	-0.000378039680179	-0.000218227140252	-0.000015456210899
496	massimi	0.102671	0.080272	-9.42311	0.000195313808115	0.000468774819898	0.000012053595924
496	minimi	-0.117103	-0.131605	-10.091354	-0.000425427162394	-0.000159925820959	-0.000015401063139
497	massimi	0.104932	0.080252	-9.395532	0.000141997944149	0.000468002494668	0.000012592944069
497	minimi	-0.121184	-0.131611	-9.960422	-0.00047984469388	-0.000160886087562	-0.000015890222785
498	massimi	0.107218	0.080246	-9.268548	0.000088118080798	0.00046817572828	0.000012039746153
498	minimi	-0.125277	-0.131607	-9.87544	-0.000532295451693	-0.000162430092903	-0.000015367442517
499	massimi	0.188794	0.020664	-8.153154	-0.000522274034764	0.000180155870468	-0.000001853267222
499	minimi	-0.108203	-0.36226	-8.800927	-0.001033305769992	-0.000437705329501	-0.00002889356036
500	massimi	0.188922	0.016835	-8.006322	-0.000526616663744	0.000138008077297	-0.000001366776536
500	minimi	-0.108126	-0.368425	-8.849852	-0.001037328087475	-0.000476807886738	-0.000029239244191
501	massimi	0.18904	0.013026	-7.847767	-0.000521829322511	0.000095638265287	-0.000001474117759
501	minimi	-0.108064	-0.37439	-8.886322	-0.001032747371179	-0.000515142743166	-0.000028566890614
502	massimi	0.190114	0.009243	-7.940343	-0.000494747447569	0.000066833871672	-0.000001186017344
502	minimi	-0.099291	-0.380275	-9.144848	-0.001004958466591	-0.000541460928281	-0.00002849191962
503	massimi	0.191128	0.00927	-8.168725	-0.000454520954291	0.000060524126445	-0.000001390209776
503	minimi	-0.090537	-0.380244	-9.389147	-0.000963873071376	-0.000547017064186	-0.000029245388874
504	massimi	0.192046	0.009289	-8.374805	-0.00041355815464	0.000064902860557	-0.000000846017305

504	minimi	-0.081751	-0.380211	-9.631388	-0.000921239471087	-0.000543729467177	-0.000028629984267
505	massimi	0.192958	0.013053	-8.728843	-0.000386155697399	0.000093853896179	-0.000000863217763
505	minimi	-0.072941	-0.374351	-9.848818	-0.000892790029311	-0.000517238442953	-0.000028814320444
506	massimi	0.193086	0.016835	-8.877149	-0.000380611957846	0.000138008077297	-0.000001388846048
506	minimi	-0.072884	-0.368425	-9.822837	-0.000886601872949	-0.000476807886738	-0.000029230334248
507	massimi	0.193208	0.020637	-9.00721	-0.000385715321362	0.000181941007717	-0.000001245095211
507	minimi	-0.072805	-0.3623	-9.790443	-0.000892227294282	-0.000435610397857	-0.000029138262204
508	massimi	0.192194	0.024476	-8.941274	-0.000413150476657	0.000210797898094	-0.000001532304634
508	minimi	-0.08167	-0.356082	-9.505277	-0.000920720349762	-0.000408790876657	-0.00002921412419
509	massimi	0.191128	0.024494	-8.747513	-0.000454520954291	0.000214946069229	-0.000001365411141
509	minimi	-0.090537	-0.356062	-9.250775	-0.000963873071376	-0.000404708086546	-0.000029224191232
510	massimi	0.189967	0.02452	-8.532859	-0.000495157526461	0.000208865499594	-0.0000018695772
510	minimi	-0.099374	-0.356015	-8.992691	-0.001005475187007	-0.000411058028167	-0.000029078787016
511	massimi	-0.052024	0.20833	-11.624533	0.000261080424682	0.000923533855733	0.000024883253992
511	minimi	-0.353522	-0.148803	-12.195248	-0.000546177881125	0.00049679068893	-0.000005292672314
512	massimi	-0.051995	0.215051	-11.80728	0.000252631569143	0.000865844040184	0.000024583861832
512	minimi	-0.353602	-0.149247	-12.453484	-0.000553598559154	0.00044001311637	-0.000005593519976
513	massimi	-0.051961	0.221648	-11.958841	0.000258840491237	0.000806760387945	0.000024502963679
513	minimi	-0.353657	-0.149609	-12.708867	-0.00054780430099	0.000382526124586	-0.000005044483656
514	massimi	-0.052999	0.228167	-12.175244	0.000297814274277	0.000767390667056	0.000024166193927
514	minimi	-0.358989	-0.149948	-12.947793	-0.000509396062763	0.000344187276304	-0.000005096351018
515	massimi	-0.053991	0.227994	-12.231444	0.00035715822107	0.000759468458547	0.000024611284997
515	minimi	-0.364226	-0.15001	-12.939323	-0.00045138188711	0.000336866981045	-0.000005589282485
516	massimi	-0.054919	0.227827	-12.213934	0.000415928335481	0.000767165959665	0.000023704868143
516	minimi	-0.369265	-0.150066	-12.970286	-0.00039264211938	0.000344133008325	-0.000005474597799
517	massimi	-0.055796	0.221446	-11.959748	0.000454657049797	0.000806552703083	0.0000236723258
517	minimi	-0.374243	-0.149679	-12.830428	-0.000353923636834	0.000382476057153	-0.000005725020103
518	massimi	-0.055763	0.215051	-11.796781	0.000460270250621	0.000865844040184	0.0000246139482
518	minimi	-0.374314	-0.149247	-12.586467	-0.00034737662803	0.00044001311637	-0.000005568893731
519	massimi	-0.05573	0.208533	-11.6152	0.000452415535629	0.000923741752621	0.000024051924029
519	minimi	-0.374381	-0.148733	-12.327048	-0.000355548475975	0.000496840544337	-0.000005972516677
520	massimi	-0.05488	0.201921	-11.532201	0.000413857630708	0.000962530514195	0.000024388400557
520	minimi	-0.369347	-0.148196	-11.954718	-0.000394143634767	0.000534878298572	-0.000005920356091
521	massimi	-0.053991	0.201762	-11.632744	0.00035715822107	0.00096878457237	0.000024586524486
521	minimi	-0.364226	-0.148259	-11.840502	-0.000451411479825	0.000541411479825	-0.000005573130672
522	massimi	-0.053037	0.201581	-11.560007	0.00029988410396	0.000962305423846	0.000024850418554
522	minimi	-0.358909	-0.148314	-11.86573	-0.000507893672286	0.000534824413551	-0.000005542801524
523	massimi	0.200228	0.169288	-10.991381	0.000087464988851	-0.000176038231096	0.000020098605504
523	minimi	-0.118394	-0.192278	-11.789693	-0.000582295360541	-0.00062991326383	-0.000025065388828
524	massimi	0.200269	0.162542	-10.914207	0.000081514643575	-0.000228067888747	0.000020767414738
524	minimi	-0.118419	-0.187128	-11.585995	-0.000587764709588	-0.000685747491921	-0.000025613760908
525	massimi	0.200307	0.155712	-10.821076	0.000088664229059	-0.000279730088169	0.000020409127036
525	minimi	-0.118447	-0.181879	-11.366633	-0.000580788996156	-0.000740477357534	-0.000025326553991
526	massimi	0.197938	0.14885	-10.778354	0.000123981339672	-0.000314310631704	0.000020637111021
526	minimi	-0.114467	-0.176584	-11.214422	-0.000544455283742	-0.000777407836789	-0.00002546650719
527	massimi	0.19558	0.14888	-10.789546	0.000176407197834	-0.000320444162848	0.000020748820171
527	minimi	-0.11053	-0.176566	-11.32107	-0.000490826208628	-0.000784012799799	-0.000025602337844
528	massimi	0.193192	0.148889	-10.745917	0.00022855022923	-0.000314383543669	0.000020897232787
528	minimi	-0.106615	-0.17653	-11.451019	-0.000436407893284	-0.000778265849755	-0.000025555889917
529	massimi	0.192783	0.155735	-10.800536	0.000263748163534	-0.000279797626481	0.000020877299331
529	minimi	-0.104701	-0.181847	-11.795842	-0.00039973751731	-0.000741269923961	-0.000025487407462
530	massimi	0.192784	0.162542	-10.900631	0.000270605622241	-0.000228067888747	0.00002075046449
530	minimi	-0.104688	-0.187128	-12.008293	-0.000391945679034	-0.000685747491921	-0.000025607937249
531	massimi	0.192781	0.169266	-10.98499	0.000264949684952	-0.000175970157092	0.000020566729885
531	minimi	-0.104671	-0.19231	-12.204753	-0.000398233434135	-0.000629121233095	-0.000025226194385
532	massimi	0.193236	0.17597	-11.094972	0.000229659915541	-0.000141225786939	0.000020338239609
532	minimi	-0.106643	-0.197455	-12.289705	-0.000435017804096	-0.00059165166364	-0.000025085734895
533	massimi	0.19558	0.175985	-11.09776	0.000176407197834	-0.000134785615439	0.00002076905811
533	minimi	-0.11053	-0.197426	-12.200751	-0.000490826208628	-0.000584761337988	-0.000025619359366
534	massimi	0.197891	0.176007	-11.083136	0.00012287291635	-0.000141299666693	0.000020078165445
534	minimi	-0.114437	-0.197399	-12.09738	-0.00054584663592	-0.000592508708817	-0.00002499639977
535	massimi	0.094744	0.183285	-11.134334	0.000170978373633	0.000111807247957	-0.000002958917974
535	minimi	-0.133324	-0.18468	-12.852397	-0.000673938379434	-0.000654521884403	-0.000033280459611
536	massimi	0.094808	0.173941	-11.075996	0.000163735074118	0.000055237026978	-0.000002742248943
536	minimi	-0.133369	-0.187156	-12.714249	-0.00067927814368	-0.000712056690848	-0.000033992298284
537	massimi	0.094861	0.164515	-10.983328	0.000171106416652	-0.000001417645004	-0.000002655233494
537	minimi	-0.133427	-0.189542	-12.576913	-0.000672121725158	-0.000768449151224	-0.000033557614688
538	massimi	0.098456	0.155042	-11.048596	0.000210247010173	-0.000039236338212	-0.000002490225266
538	minimi	-0.125199	-0.191892	-12.399561	-0.000635275670727	-0.000806536722843	-0.000033724001164

539	massimi	0.102232	0.155003	-11.242213	0.000268855907049	-0.000046099547242	-0.00000275567383
539	minimi	-0.117163	-0.191849	-12.324026	-0.000581031281155	-0.000813403882083	-0.000033978761117
540	massimi	0.106207	0.154938	-11.419433	0.000327033162697	-0.000039159496562	-0.000002381889884
540	minimi	-0.109317	-0.191804	-12.231427	-0.000525852450568	-0.000807537846514	-0.000033862311855
541	massimi	0.110208	0.164452	-11.676421	0.000365991387713	-0.000001345794509	-0.000002460233249
541	minimi	-0.101478	-0.189489	-12.289573	-0.00048860809233	-0.000769374968907	-0.000033806568481
542	massimi	0.11026	0.173941	-11.741525	0.000372918285964	0.000055237026978	-0.000002749309201
542	minimi	-0.101535	-0.187156	-12.454527	-0.000480486970611	-0.000712056690848	-0.000033983284618
543	massimi	0.110317	0.183348	-11.750153	0.000366124926775	0.000111732889724	-0.000002763911502
543	minimi	-0.101572	-0.184733	-12.642331	-0.000486796934096	-0.000653593558981	-0.00003352941963
544	massimi	0.106271	0.192728	-11.675715	0.000327155511205	0.00014951298401	-0.000002928481409
544	minimi	-0.109373	-0.182267	-12.828853	-0.000524178044789	-0.000614942743881	-0.000033363471476
545	massimi	0.102232	0.192668	-11.532603	0.000268855907049	0.000156364415233	-0.000002735883494
545	minimi	-0.117163	-0.182229	-12.887455	-0.000581031281155	-0.000607893459642	-0.000033996822605
546	massimi	0.098386	0.192621	-11.362418	0.000210127704537	0.000149594355153	-0.000003036822868
546	minimi	-0.125138	-0.182177	-12.939446	-0.000636953119378	-0.000615948397044	-0.000033225154707
547	massimi	0.174987	0.119598	-8.42557	-0.000083190895611	-0.000269837347604	0.000004162048733
547	minimi	-0.061889	-0.233707	-9.729126	-0.000758147640446	-0.000851352298715	-0.00002457154966
548	massimi	0.175056	0.114742	-8.237347	-0.000087734615066	-0.000312330142509	0.000004617329049
548	minimi	-0.061883	-0.235471	-9.538163	-0.000761558106928	-0.000894050648166	-0.000024934936093
549	massimi	0.175114	0.10983	-8.033813	-0.000081468695067	-0.000354315728184	0.000004494439265
549	minimi	-0.061884	-0.237103	-9.337548	-0.000756298015129	-0.000935313170796	-0.000024661576846
550	massimi	0.177292	0.104899	-8.054217	-0.000051702726072	-0.000382597922559	0.000004725644088
550	minimi	-0.057462	-0.238674	-9.151898	-0.000729533783963	-0.000963442668318	-0.000024694377308
551	massimi	0.179695	0.104937	-8.283584	-0.000007851093131	-0.000387810581768	0.000004598497429
551	minimi	-0.053325	-0.238639	-9.161676	-0.000690423094234	-0.000968580430442	-0.000024932267654
552	massimi	0.182078	0.104962	-8.500858	0.000036013476721	-0.000383236042969	0.000004971203362
552	minimi	-0.049245	-0.238598	-9.158666	-0.00065020067835	-0.000964871982851	-0.000024686247453
553	massimi	0.184451	0.109867	-8.917526	0.000065785710214	-0.000354904507304	0.000004936568464
553	minimi	-0.045176	-0.237058	-9.361423	-0.000622959707384	-0.000936634546333	-0.000024647082622
554	massimi	0.184515	0.114742	-9.083817	0.000072065789208	-0.000312330142509	0.000004601315106
554	minimi	-0.045177	-0.235471	-9.5994	-0.000616550058927	-0.000894050648166	-0.000024935454367
555	massimi	0.184577	0.119561	-9.224566	0.000067509748173	-0.000269250910222	0.000004604532953
555	minimi	-0.045168	-0.233752	-9.837718	-0.000621111919482	-0.00085002858144	-0.000024557410458
556	massimi	0.182152	0.124372	-9.192886	0.000037606022604	-0.000240699144917	0.000004373427131
556	minimi	-0.049241	-0.231969	-10.034644	-0.000648493125322	-0.000821176907073	-0.000024524708996
557	massimi	0.179695	0.1244	-9.003482	-0.000007851093131	-0.000235600911938	0.000004620146911
557	minimi	-0.053325	-0.231937	-10.009987	-0.000690423094234	-0.000815981647997	-0.000024938122991
558	massimi	0.177216	0.124434	-8.799488	-0.000053294254657	-0.000241333035693	0.000004127512858
558	minimi	-0.057466	-0.231892	-9.974634	-0.00073124235429	-0.000822610451239	-0.000024532483852
559	massimi	0.255754	0.152225	-10.478937	-0.000160495468512	0.000020385806792	-0.000003944120882
559	minimi	-0.023745	-0.232404	-11.323361	-0.000624065735708	-0.000615093820178	-0.0000023986106743
560	massimi	0.255825	0.147589	-10.45061	-0.000166309041857	-0.0000300708879	-0.000003730407147
560	minimi	-0.023753	-0.236809	-11.140199	-0.0006293093339	-0.00066833718502	-0.000024004935848
561	massimi	0.255875	0.142871	-10.376296	-0.000159553639895	-0.000080478598719	-0.000003853211271
561	minimi	-0.023768	-0.241074	-10.972507	-0.000622939732977	-0.000720504655027	-0.00002389790783
562	massimi	0.261125	0.138121	-10.4618	-0.00012463192663	-0.000114330758859	-0.000003723555182
562	minimi	-0.019942	-0.245266	-10.858508	-0.000588684094907	-0.000755809410647	-0.000023755063181
563	massimi	0.266292	0.138186	-10.614571	-0.000072765502135	-0.000120762190664	-0.000003740989677
563	minimi	-0.016131	-0.245186	-10.919289	-0.000538024619478	-0.000762300262792	-0.000024016552824
564	massimi	0.271309	0.138235	-10.72794	-0.000020778006635	-0.000114951054053	-0.000003489698692
564	minimi	-0.012325	-0.245106	-10.988971	-0.000486502456662	-0.000756997529486	-0.000023486719254
565	massimi	0.276279	0.142938	-10.82844	0.000014225834901	-0.000081051562333	-0.000003432311085
565	minimi	-0.008527	-0.240979	-11.314244	-0.0004519064563	-0.000721602530199	-0.000023414880935
566	massimi	0.276339	0.147589	-10.847029	0.000021109759225	-0.0000300708879	-0.000003745644293
566	minimi	-0.008543	-0.236809	-11.537763	-0.00044464745951	-0.000668337185019	-0.000024022425708
567	massimi	0.276399	0.152157	-10.850383	0.000015170206236	0.000020958341552	-0.00000352330461
567	minimi	-0.00855	-0.2325	-11.745796	-0.000450782996287	-0.000613995516152	-0.000023502995935
568	massimi	0.271381	0.156705	-10.792874	-0.000019906327419	0.000054878968654	-0.000003653431641
568	minimi	-0.012338	-0.228108	-11.8318	-0.000485463614972	-0.000578138555337	-0.000023645369642
569	massimi	0.266292	0.15676	-10.719436	-0.000072765502135	0.000060740658384	-0.000003735062645
569	minimi	-0.016131	-0.228037	-11.722305	-0.000538024619478	-0.00057172243637	-0.00002401080785
570	massimi	0.261053	0.156819	-10.609675	-0.000125502928236	0.000054259448018	-0.000003887204041
570	minimi	-0.019929	-0.227947	-11.618397	-0.000589723614206	-0.000579327448736	-0.000023913797658
571	massimi	0.334895	-0.148513	-3.013818	-0.001499624020031	-0.000217553387352	0.000041102144754
571	minimi	0.022917	-0.545124	-3.273623	-0.001758784072779	-0.000754690146207	0.000000435095889
572	massimi	0.335106	-0.140097	-2.768078	-0.001499494478988	-0.000233754343861	0.000042523130871
572	minimi	0.02307	-0.539899	-3.198523	-0.001758910716304	-0.000769170184856	0.000000882962124
573	massimi	0.335333	-0.131553	-2.517183	-0.001497838152084	-0.000249578769651	0.000041751439528

573	minimi	0.023224	-0.534378	-3.119033	-0.001757600503716	-0.000782411411431	0.00000115089667
574	massimi	0.321942	-0.122898	-2.772915	-0.001487440084291	-0.000261512465496	0.000042243685561
574	minimi	0.022691	-0.528709	-3.578954	-0.001746332798995	-0.000792656732298	0.000001470055983
575	massimi	0.308437	-0.122827	-3.27689	-0.001473021627326	-0.000265962044963	0.000042483072797
575	minimi	0.022117	-0.528628	-4.119988	-0.001730447902399	-0.000796265024938	0.000000856918366
576	massimi	0.294745	-0.122732	-3.774681	-0.00145622727648	-0.000266375647129	0.000042823807488
576	minimi	0.021523	-0.528513	-4.657287	-0.001711779287701	-0.000797278313187	0.000001553521884
577	massimi	0.280992	-0.131454	-4.522652	-0.001444494959894	-0.000254072014483	0.000042795338886
577	minimi	0.020944	-0.534261	-5.277305	-0.001699629954998	-0.000786681375025	0.000001301410912
578	massimi	0.281232	-0.140097	-4.762932	-0.001440475530735	-0.000233754343861	0.00004248534898
578	minimi	0.021097	-0.539899	-5.367952	-0.001695344071299	-0.000769170184856	0.000000877499838
579	massimi	0.281432	-0.14861	-4.996362	-0.001443007665507	-0.00021306005329	0.00004214532671
579	minimi	0.021249	-0.545242	-5.45482	-0.001698147812374	-0.000750420271843	0.000000586327533
580	massimi	0.295006	-0.157031	-4.743339	-0.001454580511562	-0.00020059458335	0.000041654106682
580	minimi	0.021705	-0.550452	-4.992189	-0.0017110682515776	-0.000739291436525	0.000000266142216
581	massimi	0.308437	-0.156944	-4.258307	-0.001473021627326	-0.000200618702381	0.000042525408973
581	minimi	0.022117	-0.550358	-4.442301	-0.001730447902399	-0.000739022774261	0.000000903541677
582	massimi	0.321681	-0.156869	-3.764657	-0.001489089298027	-0.000205457926145	0.0000410747021
582	minimi	0.022508	-0.550253	-3.890774	-0.001747427122102	-0.000743912856252	0.000000181958969
583	massimi	0.340164	-0.007683	-7.572863	-0.000045395637861	-0.000393019072887	0.000017615546819
583	minimi	0.030599	-0.165447	-8.208688	-0.000952210016453	-0.000840787318215	-0.000016801464508
584	massimi	0.340234	-0.006575	-7.370367	-0.000048920182304	-0.000429501994296	0.00001826402661
584	minimi	0.030631	-0.166189	-7.997508	-0.000954953745016	-0.000877865152065	-0.000016561677763
585	massimi	0.34029	-0.005407	-7.153496	-0.000043463629591	-0.000465292638447	0.00001774193543
585	minimi	0.030663	-0.166884	-7.779147	-0.000950271200669	-0.000913529575221	-0.000016581027399
586	massimi	0.340034	-0.004163	-7.224395	-0.000018852782449	-0.000489548416993	0.000017941036917
586	minimi	0.030568	-0.167563	-7.567221	-0.000926088483404	-0.000937966221728	-0.000016344227136
587	massimi	0.339709	-0.004075	-7.446316	0.000017205150776	-0.000494105196772	0.000018247776234
587	minimi	0.030412	-0.167452	-7.639711	-0.000890935249398	-0.000942545246441	-0.000016580938496
588	massimi	0.339217	-0.003984	-7.535748	0.000053235382605	-0.000490511071458	0.000018313358668
588	minimi	0.030192	-0.167336	-7.823205	-0.000854347055946	-0.00093959048823	-0.000015973528894
589	massimi	0.338679	-0.005301	-7.756021	0.000077834355882	-0.000466181974531	0.000018412031909
589	minimi	0.029923	-0.166749	-8.312261	-0.000829548095642	-0.000915030359876	-0.000015913737708
590	massimi	0.33875	-0.006575	-7.972169	0.000083262353604	-0.000429501994296	0.000018239768293
590	minimi	0.029955	-0.166189	-8.531493	-0.000823380872892	-0.000877865152065	-0.000016585399996
591	massimi	0.338806	-0.007788	-8.172946	0.000079766664013	-0.000392129989459	0.000018285494906
591	minimi	0.029985	-0.165583	-8.744245	-0.000827609579719	-0.000839286280903	-0.000016134026424
592	massimi	0.339293	-0.008912	-8.287135	0.000055020634742	-0.000367503804121	0.000018085663244
592	minimi	0.030229	-0.164975	-8.771081	-0.00085255595729	-0.000814118920046	-0.000016370096512
593	massimi	0.339709	-0.008823	-8.19258	0.000017205150776	-0.000363194073583	0.000018256017302
593	minimi	0.030412	-0.164865	-8.592931	-0.000890935249398	-0.000809700961599	-0.000016566577896
594	massimi	0.339959	-0.008736	-8.020728	-0.000020637868559	-0.000368466002262	0.000017713489869
594	minimi	0.03053	-0.164746	-8.470152	-0.000927879748087	-0.000815743642872	-0.00001674094313
595	massimi	0.360535	-0.035887	-3.034825	-0.00019083906893	-0.001396103197311	0.000044198281655
595	minimi	0.079511	-0.097837	-3.740174	-0.000799796863227	-0.001545062562239	-0.000005937591298
596	massimi	0.360569	-0.037627	-2.572199	-0.000190095368355	-0.001409062200348	0.00004526915005
596	minimi	0.079539	-0.083511	-3.242834	-0.000798528861396	-0.001559353902996	-0.000005591377426
597	massimi	0.360606	-0.039237	-2.105809	-0.000186296131151	-0.001419750535038	0.000044365100762
597	minimi	0.079572	-0.069239	-2.741717	-0.000795550979529	-0.001571134884794	-0.000005861226462
598	massimi	0.352377	-0.037696	-1.892836	-0.000177341464497	-0.00142759292783	0.000044601390139
598	minimi	0.075256	-0.058022	-2.29622	-0.000787694400759	-0.001579631503936	-0.000005667061344
599	massimi	0.344165	-0.037621	-2.146366	-0.000165826520856	-0.001428736789518	0.000045249885036
599	minimi	0.070799	-0.057885	-2.352676	-0.000777878830761	-0.001580580250944	-0.000005607179756
600	massimi	0.335863	-0.037532	-2.362696	-0.000154044427206	-0.00142918482921	0.000045025808423
600	minimi	0.066172	-0.057731	-2.439134	-0.000766810448309	-0.001580833704722	-0.00000525843714
601	massimi	0.327586	-0.039104	-2.942807	-0.000144974901095	-0.001421220951001	0.000045129017259
601	minimi	0.061393	-0.069101	-3.13131	-0.000758415957134	-0.001572246009442	-0.000005125722332
602	massimi	0.327636	-0.037627	-3.415817	-0.000140899171149	-0.001409062200348	0.00004524149252
602	minimi	0.061431	-0.083511	-3.625966	-0.000754141826658	-0.001559353902996	-0.000005618006962
603	massimi	0.327656	-0.036019	-3.87917	-0.000140431774898	-0.001394633948025	0.000044962178649
603	minimi	0.061456	-0.097975	-4.122418	-0.000754170261853	-0.001543950270913	-0.000005202067666
604	massimi	0.335905	-0.034307	-4.197144	-0.000149846954367	-0.001385695330518	0.00004472551734
604	minimi	0.066209	-0.112479	-4.462914	-0.000762887709994	-0.001534284027319	-0.000005395860851
605	massimi	0.344165	-0.034199	-3.993651	-0.000165826520856	-0.001383794301396	0.000045260756839
605	minimi	0.070799	-0.112349	-4.364122	-0.000777878830761	-0.001531939507123	-0.000005602203937
606	massimi	0.352335	-0.034086	-3.751002	-0.000181538833014	-0.001387285124454	0.000044301118558
606	minimi	0.075219	-0.112245	-4.296283	-0.000791617243395	-0.001535488335549	-0.000005804504557
607	massimi	0.227427	0.066209	-7.683852	0.000446409201786	0.000495261566701	0.000013001254459
607	minimi	-0.191432	-0.027762	-8.192382	-0.000435292651516	-0.000296013366619	-0.000005960078697

608	massimi	0.227419	0.067315	-7.790738	0.000441523023736	0.000459015332959	0.000012796787631
608	minimi	-0.191449	-0.026565	-8.137177	-0.000439578431006	-0.000333078496331	-0.000005644207765
609	massimi	0.227399	0.068426	-7.793186	0.000446214928024	0.000422029836568	0.000012971743972
609	minimi	-0.191449	-0.025398	-8.164823	-0.000435471248785	-0.000369607201352	-0.000006012374632
610	massimi	0.229245	0.069638	-7.725588	0.0004704712305	0.000397411111129	0.000012806583583
610	minimi	-0.195571	-0.024338	-8.230045	-0.000410739945448	-0.000393974378212	-0.00000585472475
611	massimi	0.231025	0.069639	-7.653938	0.000507000695632	0.000392599737724	0.000012810203915
611	minimi	-0.199629	-0.024323	-8.26923	-0.000373759317624	-0.000397945190864	-0.0000056570122
612	massimi	0.232664	0.069639	-7.529211	0.000542713802113	0.000397426348075	0.000012424332844
612	minimi	-0.203565	-0.024305	-8.339905	-0.000336176934036	-0.000393595116839	-0.000005409445428
613	massimi	0.234235	0.068432	-7.472117	0.000566619580279	0.000422043802454	0.000012283709271
613	minimi	-0.20745	-0.025383	-8.312709	-0.000311187270984	-0.00036925668056	-0.000005210892709
614	massimi	0.234224	0.067315	-7.471734	0.000570466363034	0.000459015332959	0.00001282170292
614	minimi	-0.207459	-0.026565	-8.282976	-0.000306457021948	-0.000333078496331	-0.000005673230452
615	massimi	0.234207	0.0662	-7.440468	0.000566425209902	0.000495247933042	0.000012313089412
615	minimi	-0.207467	-0.027773	-8.262585	-0.000311365771639	-0.000296364219637	-0.000005158466427
616	massimi	0.232648	0.065596	-7.514594	0.000542534236388	0.000519548257296	0.000012477272279
616	minimi	-0.203575	-0.029505	-8.190835	-0.000336341873148	-0.000271795765193	-0.000005315138787
617	massimi	0.231025	0.065629	-7.605267	0.000507000695632	0.000523609550881	0.00001280828481
617	minimi	-0.199629	-0.029518	-8.154191	-0.000373759317624	-0.000266890255665	-0.000005660424192
618	massimi	0.229262	0.065662	-7.616196	0.000470650742732	0.000519562894039	0.000012859653069
618	minimi	-0.195561	-0.029537	-8.175749	-0.000410574952842	-0.000271415903779	-0.00000576054816
619	massimi	0.191099	0.072812	-10.999512	0.00039374110268	0.000566529894934	0.000011151216229
619	minimi	-0.20755	-0.043942	-11.642239	-0.000489940281072	-0.000070050774388	-0.000006377513222
620	massimi	0.191093	0.073426	-11.0917	0.000386509843851	0.000513300639193	0.000011022410494
620	minimi	-0.207563	-0.043004	-11.692206	-0.000496403914524	-0.000124306916037	-0.000006253462347
621	massimi	0.191075	0.074028	-11.142952	0.000393146152027	0.0004592451242	0.000011200378327
621	minimi	-0.207559	-0.042074	-11.751383	-0.000490497054527	-0.000178363324348	-0.000006487746529
622	massimi	0.192984	0.074637	-11.22916	0.000429340557893	0.000423213274257	0.000011093856675
622	minimi	-0.21101	-0.041162	-11.764704	-0.00045467151354	-0.000214422800654	-0.000006421355139
623	massimi	0.194839	0.074624	-11.241352	0.000483893734543	0.000416254655531	0.000011031063389
623	minimi	-0.214397	-0.04116	-11.741469	-0.000400940633691	-0.000220715426782	-0.000006258845995
624	massimi	0.196577	0.07461	-11.176715	0.0005376677884	0.000423158932046	0.00001077660716
624	minimi	-0.217654	-0.041156	-11.763286	-0.000346564238003	-0.000214122852716	-0.000006143368478
625	massimi	0.19826	0.074012	-11.061644	0.000573527802368	0.000459194950535	0.000010629396974
625	minimi	-0.220855	-0.042072	-11.724872	-0.000310461684735	-0.000178086229433	-0.000005987435682
626	massimi	0.19825	0.073426	-11.031575	0.000579357675606	0.000513300639193	0.000011043083886
626	minimi	-0.220861	-0.043004	-11.644497	-0.000303886636098	-0.000124306916037	-0.000006271577088
627	massimi	0.198236	0.072826	-10.955946	0.000572932914383	0.000566579965553	0.00001057776763
627	minimi	-0.220864	-0.043942	-11.577986	-0.000311018520858	-0.000070327766258	-0.000005874735129
628	massimi	0.196562	0.072469	-10.943585	0.000537118144375	0.000602261473382	0.000010683656167
628	minimi	-0.217659	-0.045137	-11.490817	-0.00034707870058	-0.000034205703754	-0.000005940493404
629	massimi	0.194839	0.072474	-10.988467	0.000483893734543	0.000608310402881	0.00001103442981
629	minimi	-0.214397	-0.045151	-11.48869	-0.000400940633691	-0.000027406063952	-0.000006266192258
630	massimi	0.192998	0.072478	-10.962223	0.00042989023662	0.000602207317281	0.000011000853092
630	minimi	-0.211005	-0.045168	-11.526043	-0.000454157085667	-0.000033905941926	-0.000006218427475
631	massimi	0.140014	0.064567	-11.187976	0.000353102389116	0.000608570986926	0.000010975974965
631	minimi	-0.170674	-0.053966	-11.823178	-0.000528276171145	-0.000081670163726	-0.000005098936687
632	massimi	0.140011	0.065279	-11.314627	0.000345615492817	0.000553990158391	0.000010935846905
632	minimi	-0.17068	-0.052771	-11.901239	-0.000534996558287	-0.000026617534991	-0.000005059022183
633	massimi	0.140002	0.06598	-11.393908	0.000352196829284	0.000498517362989	0.000011049052877
633	minimi	-0.170675	-0.051573	-11.99425	-0.000529089661874	-0.00002847827247	-0.000005197123144
634	massimi	0.140783	0.066687	-11.562375	0.000389121974374	0.000461519900099	0.000010983910989
634	minimi	-0.173369	-0.050386	-12.012128	-0.000492392215845	-0.000065237041356	-0.000005169712712
635	massimi	0.142013	0.066671	-11.607173	0.000444883382375	0.000454305363648	0.000010941120247
635	minimi	-0.176497	-0.050391	-11.981114	-0.000437262743202	-0.000071836440134	-0.0000050612217
636	massimi	0.143169	0.066654	-11.547134	0.000499928393371	0.000461368135978	0.000010748978021
636	minimi	-0.17953	-0.050392	-12.02242	-0.000381429147601	-0.000065062714213	-0.000005004007744
637	massimi	0.144291	0.065961	-11.384996	0.000536545966024	0.00049837710874	0.000010626260993
637	minimi	-0.182522	-0.051577	-11.993257	-0.00034442940042	-0.000028317171683	-0.00000489893702
638	massimi	0.144285	0.065279	-11.302479	0.000542385848321	0.000553990158391	0.000010951154008
638	minimi	-0.182522	-0.052771	-11.903481	-0.000337793750087	-0.000026617534991	-0.000005069817889
639	massimi	0.144275	0.064585	-11.193459	0.000535640436369	0.00060871134757	0.000010553295487
639	minimi	-0.18252	-0.053962	-11.807789	-0.000345242921325	-0.000081508956544	-0.000004800862968
640	massimi	0.143159	0.06427	-11.163009	0.000499091746096	0.000645337528436	0.000010617598801
640	minimi	-0.179529	-0.055541	-11.651894	-0.000382180773973	-0.000118235677941	-0.000004827434827
641	massimi	0.142013	0.064257	-11.207429	0.000444883382375	0.000651476825275	0.000010945879099
641	minimi	-0.176497	-0.055545	-11.62611	-0.000437262743202	-0.000124965261942	-0.000005067616806
642	massimi	0.140789	0.064243	-11.156741	0.000389958638355	0.000645185572156	0.000010852419322

642	minimi	-0.173367	-0.055552	-11.663111	-0.00049164060618	0.000118410197243	-0.000004993027347
643	massimi	0.112383	0.058663	-11.1929	0.000347351565509	0.000594069406765	0.000013237978
643	minimi	-0.17446	-0.060992	-11.859571	-0.000533523034662	0.000107708113612	-0.00000319109754
644	massimi	0.112381	0.060113	-11.313382	0.00033981408028	0.000539819947126	0.00001328151464
644	minimi	-0.174463	-0.059185	-11.947508	-0.000540232197828	0.000052088075891	-0.000003232519251
645	massimi	0.112378	0.061559	-11.395877	0.000346407282476	0.000484702843043	0.000013322233695
645	minimi	-0.174456	-0.057374	-12.040936	-0.000534331259957	-0.000003617663657	-0.00000327721606
646	massimi	0.111003	0.063013	-11.53243	0.00038352873238	0.000447953636591	0.00001328191124
646	minimi	-0.176362	-0.055575	-12.097848	-0.00049765904403	-0.000040800870106	-0.000003292732351
647	massimi	0.109609	0.062986	-11.588154	0.000439598506258	0.000440818604086	0.00001328476937
647	minimi	-0.178224	-0.055589	-12.059387	-0.000442571382256	-0.000047536335125	-0.00000323122503
648	massimi	0.10816	0.06296	-11.551164	0.000494960836135	0.000447848385119	0.000013097750789
648	minimi	-0.179988	-0.055597	-12.081044	-0.00038677148827	-0.00004070442066	-0.00000324631764
649	massimi	0.106687	0.061528	-11.402949	0.000531779257151	0.00048460571464	0.000012990829771
649	minimi	-0.181713	-0.057387	-12.037728	-0.000349794187082	-0.000003528667665	-0.000003193745233
650	massimi	0.106689	0.060113	-11.311492	0.000537640203336	0.000539819947126	0.000013293511717
650	minimi	-0.181712	-0.059185	-11.953262	-0.000343156038725	0.000052088075891	-0.000003235539821
651	massimi	0.106682	0.058694	-11.198619	0.000530835303253	0.000594166186883	0.000012906717786
651	minimi	-0.181709	-0.060979	-11.857716	-0.000350602741513	0.000107619465906	-0.000003107770422
652	massimi	0.108157	0.057745	-11.117978	0.000494088631532	0.000630552440071	0.000012946296807
652	minimi	-0.179986	-0.063254	-11.744892	-0.000387518469779	0.000144756865636	-0.000003091510697
653	massimi	0.109609	0.057709	-11.167694	0.000439598506258	0.00063668313843	0.000013290255596
653	minimi	-0.178224	-0.063253	-11.710409	-0.000442571382256	0.00015150141269	-0.000003236832651
654	massimi	0.111005	0.057672	-11.128241	0.000384401119235	0.000630447817635	0.000013130313493
654	minimi	-0.176364	-0.063256	-11.732699	-0.000496912244773	0.000144852686046	-0.000003137781643
655	massimi	0.073779	0.047572	-11.186343	0.000332278982081	0.000518656615908	0.000014652798251
655	minimi	-0.18585	-0.069523	-11.778187	-0.00055032932723	0.000040506896217	-0.000001098464486
656	massimi	0.073782	0.049631	-11.274811	0.000324908431966	0.000464107998428	0.000014700607166
656	minimi	-0.18585	-0.067193	-11.851911	-0.000556899368497	-0.000014318856623	-0.000001177974003
657	massimi	0.073787	0.051687	-11.32127	0.000331524378295	0.000408812425424	0.000014703037332
657	minimi	-0.185838	-0.064851	-11.93532	-0.000550906449298	-0.000069122098929	-0.000001113446876
658	massimi	0.071799	0.053751	-11.470232	0.000368308118791	0.000371924825441	0.000014681613996
658	minimi	-0.188287	-0.062517	-11.944221	-0.000514301261218	-0.000105736642248	-0.000001174985603
659	massimi	0.069805	0.053708	-11.540764	0.000423790707868	0.000364815791826	0.000014702329048
659	minimi	-0.190691	-0.062545	-11.901458	-0.00045941201485	-0.000112359553238	-0.00000117293731
660	massimi	0.067782	0.053667	-11.500884	0.000478590893002	0.000371805515366	0.000014527575823
660	minimi	-0.19299	-0.062566	-11.9367	-0.000403782991707	-0.000105722798959	-0.000001263626664
661	massimi	0.06575	0.051637	-11.349311	0.000515081697364	0.000408702120611	0.000014425830048
661	minimi	-0.195247	-0.06488	-11.953578	-0.000366860227824	-0.000069109237509	-0.000001273045942
662	massimi	0.065757	0.049631	-11.277371	0.000520991343461	0.000464107998428	0.000014710641983
662	minimi	-0.195242	-0.067193	-11.895657	-0.000360101643357	-0.000014318856623	-0.000001172194089
663	massimi	0.065757	0.047622	-11.170583	0.000514327076584	0.000518767133475	0.000014324764333
663	minimi	-0.195235	-0.069494	-11.840247	-0.000367437332898	0.000040493822043	-0.000001207236919
664	massimi	0.067787	0.045938	-11.162043	0.000477893683024	0.000555343317167	0.000014345619677
664	minimi	-0.192983	-0.072131	-11.690923	-0.000404316196428	0.000077116680716	-0.000001145130199
665	massimi	0.069805	0.045876	-11.228017	0.000423790707868	0.000561559017319	0.000014708919038
665	minimi	-0.190691	-0.072131	-11.62951	-0.00045941201485	0.000083777857905	-0.000001177229719
666	massimi	0.071794	0.045811	-11.192312	0.000369005319359	0.000555223622836	0.000014547766801
666	minimi	-0.188294	-0.072137	-11.637523	-0.000513768047087	0.00007713090826	-0.000001104598089
667	massimi	0.127497	0.145408	-6.44213	0.000400369168572	0.000588910798167	0.000007696553897
667	minimi	-0.168448	-0.059384	-7.114343	-0.000325636769164	-0.000409705582975	-0.000010242929004
668	massimi	0.131886	0.139221	-6.404861	0.000487637432415	0.000472299677351	0.000007240075013
668	minimi	-0.171253	-0.055219	-7.092668	-0.000231251991148	-0.000529531210408	-0.00001049134903
669	massimi	0.131886	0.151003	-6.037256	0.000487637432415	0.000697900692323	0.000006641494528
669	minimi	-0.171253	-0.063322	-7.233864	-0.000231251991148	-0.000284581468102	-0.000008917630265
670	massimi	0.127616	0.151047	-6.065198	0.000440056075849	0.000671359342434	0.000007529369547
670	minimi	-0.168486	-0.063369	-7.318143	-0.000285365329665	-0.000322866592062	-0.00001021553844
671	massimi	0.136042	0.145408	-6.168262	0.000575035141855	0.000588910798167	0.000006198856068
671	minimi	-0.17375	-0.059384	-7.103065	-0.000136943776649	-0.000409705582975	-0.000009181881002
672	massimi	0.136104	0.139324	-6.157775	0.000539604440012	0.00051042947644	0.000007398483558
672	minimi	-0.173753	-0.055305	-7.167242	-0.000177802869614	-0.000497602913301	-0.000010656754117
673	massimi	0.135957	0.151018	-5.908837	0.000539841391797	0.000671351658217	0.000007120168315
673	minimi	-0.173758	-0.063284	-7.190961	-0.000179341961474	-0.000324565411113	-0.000009925475405
674	massimi	0.12747	0.139297	-6.606007	0.000440274705856	0.000510417743938	0.00000780726236
674	minimi	-0.168491	-0.055222	-7.002553	-0.000286886099746	-0.000499297684069	-0.000010946394722
675	massimi	0.189085	0.174743	-6.799083	0.000349979673847	0.000542348339752	0.000009640801461
675	minimi	-0.10897	-0.002738	-7.508801	-0.000274619844432	-0.000457293825748	-0.000001545971654
676	massimi	0.189171	0.178432	-6.446601	0.000443001029281	0.000408702028275	0.000008491491405
676	minimi	-0.113975	-0.001128	-7.734141	-0.000174341581554	-0.00057455863884	-0.000000957600615

677	massimi	0.189171	0.170465	-6.743712	0.000443001029281	0.000668972642714	0.000009759457008
677	minimi	-0.113975	-0.004487	-7.329571	-0.000174341581554	-0.000334109455202	-0.000000275757274
678	massimi	0.18917	0.170573	-6.923909	0.000392368566799	0.000637556263013	0.00001024293825
678	minimi	-0.108926	-0.004443	-7.266139	-0.000232326771926	-0.000372728889782	-0.000000753103333
679	massimi	0.188912	0.174743	-6.503488	0.000536132511053	0.000542348339752	0.000008654241606
679	minimi	-0.118777	-0.002738	-7.5056	-0.000074117985906	-0.000457293825748	0.000000274650306
680	massimi	0.188997	0.178495	-6.282104	0.000498478610617	0.000451894334031	0.000009383202416
680	minimi	-0.118668	-0.001095	-7.71772	-0.000118048338205	-0.000544253801956	-0.000000571510768
681	massimi	0.188879	0.17054	-6.511333	0.000497816016444	0.00063644661328	0.000009970710007
681	minimi	-0.118852	-0.004516	-7.381596	-0.000118003767619	-0.000373407447172	-0.000000253305835
682	massimi	0.189051	0.178472	-6.542666	0.000391716499068	0.00045078205894	0.000009652642879
682	minimi	-0.10911	-0.001179	-7.754275	-0.000232292727782	-0.000544929733988	-0.000001068520486
683	massimi	0.094234	0.140323	-7.975659	0.000253963062044	0.000562423632701	0.000010324203316
683	minimi	-0.18647	-0.094456	-8.720958	-0.000363177332601	-0.000265369747273	-0.000007199918576
684	massimi	0.097452	0.136592	-8.338024	0.000370298278577	0.000414304686853	0.000009972588027
684	minimi	-0.191304	-0.089089	-8.440228	-0.000247560956208	-0.000419570186397	-0.00000762970637
685	massimi	0.097452	0.143497	-7.65781	0.000370298278577	0.000703253286065	0.000009016140729
685	minimi	-0.191304	-0.099458	-8.745144	-0.000247560956208	-0.000107730231239	-0.000006153312868
686	massimi	0.094327	0.143518	-7.615981	0.000306040056263	0.00066722681355	0.000010211595036
686	minimi	-0.186546	-0.099519	-8.817339	-0.000313861629495	-0.000154482419868	-0.000007149586133
687	massimi	0.100509	0.140323	-7.998175	0.000486732429838	0.000562423632701	0.000008674655291
687	minimi	-0.195798	-0.094456	-8.561937	-0.000132018198734	-0.000265369747273	-0.000006591356064
688	massimi	0.10056	0.136646	-8.151473	0.000438707819022	0.000461106264504	0.000010205770187
688	minimi	-0.195812	-0.0892	-8.519435	-0.000182094980559	-0.000376932859733	-0.000007669311379
689	massimi	0.100442	0.143556	-7.653958	0.000438068596072	0.000667515276257	0.000009761230924
689	minimi	-0.195774	-0.099423	-8.643623	-0.000183614209125	-0.000155587823041	-0.000006983250847
690	massimi	0.094209	0.136687	-8.225589	0.000305384345321	0.000461394327446	0.000010655949846
690	minimi	-0.186509	-0.089107	-8.581058	-0.00031536437007	-0.000378037863141	-0.000007835462215
691	massimi	0.174035	0.171205	-10.246979	0.000214303891061	0.000545400217602	0.000011584880186
691	minimi	-0.129566	-0.030348	-10.476218	-0.000326851920806	-0.000303701519299	-0.00000366406893
692	massimi	0.175382	0.174619	-10.072366	0.000360809520958	0.000350852119084	0.000010409219372
692	minimi	-0.135649	-0.028644	-10.654444	-0.000178937400576	-0.000492019735645	-0.000003069345357
693	massimi	0.175382	0.167138	-9.95678	0.000360809520958	0.000732879530983	0.000011472670379
693	minimi	-0.135649	-0.031995	-10.464665	-0.000178937400576	-0.000111447343735	-0.000002536071649
694	massimi	0.174112	0.167226	-9.997393	0.000279581898628	0.000683891370305	0.000012172725442
694	minimi	-0.129545	-0.03197	-10.47657	-0.00026380017026	-0.000168777517724	-0.000003109752002
695	massimi	0.176417	0.171205	-10.066047	0.000507389981882	0.000545400217602	0.000010284255949
695	minimi	-0.141495	-0.030348	-10.454877	-0.00003106016769	-0.000303701519299	-0.00000192273028
696	massimi	0.176478	0.174665	-9.955078	0.000446637921	0.000411373592859	0.000011327925693
696	minimi	-0.141394	-0.02863	-10.621507	-0.000095202978241	-0.000440257832696	-0.000002886405892
697	massimi	0.176388	0.167228	-9.819871	0.000445442707093	0.000683086868627	0.000011817269424
697	minimi	-0.141552	-0.032029	-10.452955	-0.000095363996773	-0.000169183563539	-0.000002634049481
698	massimi	0.174021	0.174675	-10.076289	0.000278387711776	0.000410568620945	0.000011682889511
698	minimi	-0.129703	-0.028697	-10.701433	-0.000264362215847	-0.000440663408276	-0.000003361616212
699	massimi	0.24093	0.319626	-9.699409	0.00017655250551	0.000531139642617	0.000033386466516
699	minimi	-0.122525	-0.072972	-11.387129	-0.00057803578936	-0.000382685603048	-0.000002032373291
700	massimi	0.241081	0.311769	-9.815259	0.000276995499059	0.000642408073762	0.000033945788293
700	minimi	-0.133252	-0.075938	-11.286574	-0.000472341361306	-0.000287816323147	-0.000000952027555
701	massimi	0.240971	0.311837	-9.795651	0.000213762285697	0.000602675407733	0.000034531891457
701	minimi	-0.122491	-0.075907	-11.218371	-0.000540192750359	-0.000323248276222	-0.000001382134618
702	massimi	0.241081	0.32706	-9.623282	0.000276995499059	0.000419868963826	0.000031731041895
702	minimi	-0.133252	-0.069926	-11.575401	-0.000472341361306	-0.00047755446798	-0.000001019088662
703	massimi	0.240913	0.319626	-9.699802	0.000377469582706	0.000531139642617	0.000032258895125
703	minimi	-0.143811	-0.072972	-11.514176	-0.000366675611789	-0.000382685603048	-0.0000009272562
704	massimi	0.240954	0.327088	-9.61508	0.000341332302227	0.000461378790414	0.000033298268179
704	minimi	-0.143721	-0.06991	-11.622833	-0.000405995228429	-0.000443719197363	-0.000000617943469
705	massimi	0.240937	0.311826	-9.76159	0.000341133540341	0.000602613941095	0.000034119747772
705	minimi	-0.143881	-0.075973	-11.379646	-0.000406024205328	-0.000322887135495	-0.000000605373037
706	massimi	0.240953	0.327077	-9.564506	0.000213566696023	0.000461316607467	0.000033710575359
706	minimi	-0.122651	-0.069977	-11.546194	-0.000540224899469	-0.000443357340325	-0.000001394868544
707	massimi	0.057208	0.127181	-8.197021	0.000194857115414	0.000557331136053	0.000010793677964
707	minimi	-0.160336	-0.115126	-8.836218	-0.00040762527934	-0.000116086101699	-0.000008323367933
708	massimi	0.060136	0.123157	-8.601981	0.000313816229812	0.000404340094652	0.000010694845989
708	minimi	-0.164472	-0.109869	-8.657163	-0.000288509333304	-0.000274265793665	-0.000008872179194
709	massimi	0.060136	0.130717	-7.902921	0.000313816229812	0.000703098464834	0.000009514385612
709	minimi	-0.164472	-0.119946	-8.798753	-0.000288509333304	0.00004359817721	-0.000007555065306
710	massimi	0.057243	0.130713	-7.83614	0.000248286569279	0.000665479267297	0.000010777678429
710	minimi	-0.160382	-0.120005	-8.84149	-0.000356958977799	-0.000002736751482	-0.000008554396934
711	massimi	0.063979	0.127181	-8.250388	0.000432857932087	0.000557331136053	0.000009422847591

711	minimi	-0.169325	-0.115126	-8.754705	-0.000169470755342	-0.000116086101699	-0.000008109808719
712	massimi	0.064005	0.123189	-8.434236	0.000383937799609	0.000452360765492	0.000010952071083
712	minimi	-0.169347	-0.109977	-8.769947	-0.000221206625604	-0.000229484230094	-0.000009108023698
713	massimi	0.063918	0.130787	-7.905579	0.000382321499207	0.000666041382876	0.000010403525928
713	minimi	-0.169281	-0.11993	-8.744063	-0.000222796497753	-0.00000346730994	-0.000008496001342
714	massimi	0.057202	0.123266	-8.443116	0.000246656910597	0.000452922828103	0.000011326115523
714	minimi	-0.160362	-0.109905	-8.789054	-0.000358535491667	-0.000230214735583	-0.000009166311229
715	massimi	0.126667	0.143602	-11.295455	0.000100541736611	0.000503809187526	0.000011480289628
715	minimi	-0.106093	-0.064804	-11.585331	-0.00042490942898	-0.000166497484616	-0.000007806524011
716	massimi	0.129744	0.146258	-11.2547	0.000265340449812	0.000286071511348	0.00001056201339
716	minimi	-0.111367	-0.065114	-11.78251	-0.000259982494944	-0.00037794298173	-0.000007234310307
717	massimi	0.129744	0.140502	-11.122656	0.000265340449812	0.000715017318952	0.000011310819558
717	minimi	-0.111367	-0.064382	-11.488391	-0.000259982494944	0.000047105424289	-0.000007089874057
718	massimi	0.12673	0.140571	-11.063064	0.000173401243234	0.000658616375209	0.000012077336952
718	minimi	-0.106099	-0.064393	-11.497358	-0.000354732447637	-0.00001555825175	-0.000007838595358
719	massimi	0.133279	0.143602	-11.276732	0.00043019441359	0.000503809187526	0.000010387810613
719	minimi	-0.117133	-0.064804	-11.598095	-0.000095109705447	-0.000166497484616	-0.000006510207976
720	massimi	0.133292	0.146295	-11.201029	0.000361299723557	0.000352629392843	0.00001142241245
720	minimi	-0.117059	-0.065118	-11.777389	-0.000166751074017	-0.000318765267109	-0.000007542978184
721	massimi	0.133258	0.140578	-11.031364	0.000359784069937	0.000658369991946	0.000011778994846
721	minimi	-0.117164	-0.064426	-11.523132	-0.000167686396586	-0.000015347531231	-0.000007484637443
722	massimi	0.126647	0.146309	-11.190194	0.000171886516052	0.000352382777687	0.000011720583428
722	minimi	-0.106155	-0.065158	-11.79415	-0.000355668696644	-0.000318554314696	-0.00000789676497
723	massimi	0.179297	0.328256	-12.27956	0.000126387316474	0.000608595861406	0.000016153171661
723	minimi	-0.104378	-0.102695	-13.69416	-0.000385072639036	-0.000118383614075	-0.000007930919871
724	massimi	0.18086	0.325363	-12.31317	0.000253980928431	0.000743470365559	0.000016828067985
724	minimi	-0.108752	-0.10282	-13.501526	-0.000256679505876	0.000002725617691	-0.000007228936843
725	massimi	0.179353	0.325418	-12.301796	0.000175591640705	0.000695271807085	0.00001682640562
725	minimi	-0.104351	-0.102811	-13.482141	-0.000338452442223	-0.0000417380103	-0.000007725860489
726	massimi	0.18086	0.330708	-12.240474	0.000253980928431	0.00047371461056	0.00001497139363
726	minimi	-0.108752	-0.102442	-13.894029	-0.000256679505876	-0.000239492150858	-0.000007458941609
727	massimi	0.182387	0.328256	-12.270488	0.000381826677515	0.000608595861406	0.000015443725706
727	minimi	-0.11319	-0.102695	-13.704992	-0.000128538476529	-0.000118383614075	-0.000006554394333
728	massimi	0.18241	0.330748	-12.22037	0.000335780809736	0.000523995665503	0.000015811690558
728	minimi	-0.113115	-0.102434	-13.884564	-0.000175573838376	-0.000195529641596	-0.0000072330039779
729	massimi	0.182404	0.32541	-12.291866	0.000335332944472	0.000695157386344	0.000016565155853
729	minimi	-0.113271	-0.102855	-13.493829	-0.000175877992671	-0.000041619449753	-0.000007220778698
730	massimi	0.179282	0.330741	-12.228824	0.000173156417273	0.00052388102745	0.000016069506884
730	minimi	-0.104442	-0.102479	-13.874353	-0.00033876923835	-0.000195410863737	-0.000007731688129
731	massimi	0.033301	0.122186	-8.221589	0.000187346860374	0.000526403860667	0.000005649773962
731	minimi	-0.16711	-0.122123	-8.800244	-0.000415160279718	-0.000098453966285	-0.00001230139766
732	massimi	0.036492	0.115373	-8.561257	0.000305694689415	0.000373879880596	0.000005681736846
732	minimi	-0.166102	-0.120213	-8.686483	-0.000295478636505	-0.000256953505941	-0.000013049869778
733	massimi	0.036492	0.128528	-7.907618	0.000305694689415	0.000672107096913	0.00000442267983
733	minimi	-0.166102	-0.123561	-8.799448	-0.000295478636505	0.000061319514311	-0.000011790096147
734	massimi	0.033335	0.128485	-7.858486	0.000240676321065	0.000634455650411	0.000005301335542
734	minimi	-0.167133	-0.123635	-8.816155	-0.000364532203656	0.000014853349627	-0.000013028701676
735	massimi	0.039666	0.122186	-8.205802	0.000424122018152	0.000526403860667	0.00000445798572
735	minimi	-0.164831	-0.122123	-8.80467	-0.000175874385825	-0.000098453966285	-0.000012547217182
736	massimi	0.039659	0.115395	-8.416219	0.000375630021472	0.00042171591079	0.000005561121747
736	minimi	-0.164871	-0.120303	-8.784956	-0.000228136065286	-0.000212185788242	-0.00001368106641
737	massimi	0.039639	0.128605	-7.863707	0.000373610174359	0.000634625284658	0.000004976067979
737	minimi	-0.164851	-0.12357	-8.799636	-0.000229225785642	0.000014615717261	-0.000013095679767
738	massimi	0.033319	0.115516	-8.43149	0.000238645236085	0.000421885783753	0.000005886303024
738	minimi	-0.167116	-0.12024	-8.780983	-0.000365610686145	-0.000212423659324	-0.000013614002034
739	massimi	0.095855	0.124692	-11.47651	0.000054107862243	0.000478333118373	0.000007233024981
739	minimi	-0.115196	-0.086622	-11.753824	-0.000469397141872	-0.000145169836879	-0.000009798031792
740	massimi	0.097676	0.124808	-11.478759	0.000221932313979	0.000256920506856	0.00000654420217
740	minimi	-0.115472	-0.088592	-11.951473	-0.000301282243264	-0.000360948968156	-0.000009422718493
741	massimi	0.097676	0.124175	-11.346617	0.000221932313979	0.000693545851733	0.000007028913174
741	minimi	-0.115472	-0.084415	-11.662693	-0.000301282243264	0.000072490810186	-0.000009475886646
742	massimi	0.095899	0.124213	-11.252858	0.000128045638313	0.000635507581613	0.000007522172341
742	minimi	-0.115198	-0.084459	-11.657943	-0.00039803621436	0.000008838359773	-0.000010258657114
743	massimi	0.099358	0.124692	-11.502954	0.000389802799257	0.000478333118373	0.000006306354952
743	minimi	-0.115576	-0.086622	-11.815631	-0.000133229758327	-0.000145169836879	-0.000009068756635
744	massimi	0.099378	0.124841	-11.444792	0.000319388111493	0.000324042531743	0.000007042653591
744	minimi	-0.115575	-0.088612	-11.972473	-0.00020642532999	-0.000300354719229	-0.000010033453936
745	massimi	0.09934	0.124242	-11.279541	0.000317913619299	0.000635833766252	0.000007268987776
745	minimi	-0.115604	-0.084462	-11.719016	-0.000207371670702	0.00000904033117	-0.000010059330653

746	massimi	0.09586	0.124874	-11.40248	0.000126572027942	0.000324368275612	0.000007294460496
746	minimi	-0.115227	-0.08862	-11.927031	-0.000398983436896	-0.000300152307062	-0.000010231402737
747	massimi	0.18222	0.233015	-13.492069	-0.000169011255696	0.000292966468604	0.000038436068539
747	minimi	-0.062542	-0.193834	-14.643169	-0.000669597729561	-0.000303038063259	-0.000032605735802
748	massimi	0.191622	0.228202	-13.667265	-0.000029458637868	0.000438992572509	0.000038843997217
748	minimi	-0.073994	-0.19118	-14.65341	-0.000528959854692	-0.000168870165439	-0.000032288340866
749	massimi	0.182272	0.22826	-13.570074	-0.00011809900418	0.000385923075236	0.000039792650736
749	minimi	-0.06257	-0.191185	-14.53575	-0.000619130596814	-0.000218535451727	-0.000033338293587
750	massimi	0.191622	0.237576	-13.480343	-0.000029458637868	0.000146938175225	0.000037545912086
750	minimi	-0.073994	-0.196291	-14.833761	-0.000528959854692	-0.000437203647272	-0.000031352715779
751	massimi	0.200785	0.233015	-13.65389	0.000110119216281	0.000292966468604	0.000037949617311
751	minimi	-0.08537	-0.193834	-14.845651	-0.000388340322422	-0.000303038063259	-0.00003103109739
752	massimi	0.200788	0.237608	-13.545246	0.000059130815953	0.000200488909988	0.000039140353491
752	minimi	-0.085338	-0.196282	-14.917676	-0.000440552877234	-0.000388908826192	-0.000032420727367
753	massimi	0.200785	0.22823	-13.730165	0.000059095673123	0.000386388750064	0.000039615047124
753	minimi	-0.085362	-0.19124	-14.739316	-0.00044050228388	-0.000218144473889	-0.00003276293401
754	massimi	0.182267	0.23758	-13.382642	-0.000118131776659	0.000200954212561	0.000039318365565
754	minimi	-0.062593	-0.196338	-14.716622	-0.000619082373811	-0.0003885174761	-0.000032996495407
755	massimi	-0.000889	0.113276	-8.128769	0.000171089896205	0.000430419160437	0.000000235578022
755	minimi	-0.181607	-0.129934	-8.687163	-0.000436997442752	-0.000180871295078	-0.000020318762534
756	massimi	0.005316	0.100488	-8.414088	0.000287126255838	0.000280412067751	0.000000387929429
756	minimi	-0.175645	-0.131101	-8.538293	-0.000317864831507	-0.000337021731711	-0.000021313749166
757	massimi	0.005316	0.125625	-7.875859	0.000287126255838	0.000574848495576	-0.00000097328183
757	minimi	-0.175645	-0.128259	-8.761243	-0.000317864831507	-0.000022377574926	-0.000020141376366
758	massimi	-0.000853	0.125521	-7.826282	0.000223238127474	0.000536761175733	-0.000000488276197
758	minimi	-0.181599	-0.128353	-8.755631	-0.00038725715442	-0.000069235392234	-0.000021904011045
759	massimi	0.011611	0.113276	-8.105805	0.000403237931244	0.000430419160437	-0.000000819602185
759	minimi	-0.169448	-0.129934	-8.744312	-0.000198813876175	-0.000180871295078	-0.000021152828987
760	massimi	0.011566	0.100509	-8.26798	0.000355554600644	0.000326725644498	-0.00000014382234
760	minimi	-0.169524	-0.13118	-8.66155	-0.000251489515642	-0.000293685948614	-0.000022676220726
761	massimi	0.011571	0.125696	-7.807583	0.000353735829639	0.000537001941095	-0.000000776193606
761	minimi	-0.1695	-0.128286	-8.808324	-0.000251484008139	-0.000069271561424	-0.000022131567197
762	massimi	-0.000842	0.100685	-8.284796	0.000221408530273	0.000326966509452	0.000000144112183
762	minimi	-0.18158	-0.131113	-8.61074	-0.000387240820721	-0.000293722217397	-0.000022448681689
763	massimi	0.069461	0.103621	-11.203993	0.000007140103795	0.000396339986746	0.000006518569654
763	minimi	-0.112499	-0.109008	-11.476364	-0.000516445558209	-0.000219520873735	-0.000010089779248
764	massimi	0.070387	0.104386	-11.148028	0.000170969802816	0.000179779852341	0.000006056205672
764	minimi	-0.111236	-0.112288	-11.691288	-0.000352043957848	-0.000429143677044	-0.000009822063656
765	massimi	0.070387	0.102507	-11.127523	0.000170969802816	0.000607765996827	0.000006356559632
765	minimi	-0.111236	-0.105355	-11.488398	-0.000352043957848	-0.000007055822328	-0.000010183477846
766	massimi	0.069478	0.102533	-11.036258	0.000078827864448	0.000549998203258	0.00000682644066
766	minimi	-0.112511	-0.105426	-11.425666	-0.000447191150375	-0.000069989764888	-0.000010861626799
767	massimi	0.071248	0.103621	-11.256883	0.000334836084392	0.000396339986746	0.000005904087247
767	minimi	-0.109832	-0.109008	-11.62486	-0.000187716319004	-0.000219520873735	-0.000009928389419
768	massimi	0.071252	0.104402	-11.147236	0.000265611141469	0.000244696429935	0.000006519211103
768	minimi	-0.109861	-0.112323	-11.737162	-0.000259820029668	-0.00037108551707	-0.000010649657759
769	massimi	0.071251	0.102573	-11.092586	0.000264725741845	0.000550645645936	0.000006658404702
769	minimi	-0.10985	-0.105407	-11.569591	-0.000260219434075	-0.000069431971359	-0.000010817214658
770	massimi	0.069475	0.104445	-11.03466	0.000077943567775	0.000245342361868	0.000006686641215
770	minimi	-0.112498	-0.112307	-11.649484	-0.000447591657733	-0.000370526212794	-0.000010693464055
771	massimi	0.229693	0.140289	-12.584545	-0.000282170821316	-0.000293426673716	0.000033851819841
771	minimi	0.0188	-0.269581	-13.645235	-0.000791967584347	-0.000758852846771	-0.000021201069397
772	massimi	0.236451	0.13511	-12.950735	-0.00015232592401	-0.000157916678446	0.000033685927694
772	minimi	0.007605	-0.268919	-13.887412	-0.000660454641617	-0.000632993489846	-0.000020504336351
773	massimi	0.229718	0.135182	-12.81314	-0.000235401251582	-0.000208184631774	0.000034931658019
773	minimi	0.01875	-0.268909	-13.728949	-0.000745443175028	-0.000680466208995	-0.000021323749127
774	massimi	0.236451	0.145323	-12.464486	-0.000152325924011	-0.000428929719704	0.000034110623642
774	minimi	0.007605	-0.269917	-13.687171	-0.000660454641617	-0.000884706162501	-0.000019732945982
775	massimi	0.242897	0.140289	-12.825464	-0.000022460739386	-0.000293426673716	0.000033936829184
775	minimi	-0.00362	-0.269581	-13.934561	-0.000528951952363	-0.000758852846771	-0.000019028310625
776	massimi	0.242886	0.145368	-12.568739	-0.00007050253466	-0.000380258901271	0.000035117998641
776	minimi	-0.00361	-0.269904	-13.817381	-0.000578447221948	-0.0008402866095	-0.000020247631209
777	massimi	0.242937	0.135101	-13.051747	-0.000069734723213	-0.000207538198248	0.000034963046082
777	minimi	-0.003568	-0.269004	-14.019647	-0.000577600763688	-0.000679865780808	-0.000020529874083
778	massimi	0.229767	0.145289	-12.326685	-0.000234631917967	-0.000379613053311	0.000035087228697
778	minimi	0.018793	-0.27	-13.53013	-0.000744598238936	-0.000839685595747	-0.000021042124371
779	massimi	-0.041381	0.077575	-7.112293	0.000161942669108	0.000377472467213	0.000010637343481
779	minimi	-0.258043	-0.135447	-8.043966	-0.000562014003305	-0.000252374863778	-0.00000256825034
780	massimi	-0.042531	0.080378	-7.39909	0.000267244292212	0.000243786070938	0.000009676662561

780	minimi	-0.260925	-0.133879	-7.907272	-0.000456712218509	-0.000392205812363	-0.000002964792491
781	massimi	-0.042531	0.074496	-7.026241	0.000267244292212	0.000506282630483	0.000009664881522
781	minimi	-0.260925	-0.136494	-8.122073	-0.000456712218509	-0.000109289114409	-0.00000360903139
782	massimi	-0.041461	0.074384	-6.933003	0.000209370335794	0.00047255741326	0.000010657282243
782	minimi	-0.25808	-0.136601	-8.076016	-0.000519308305556	-0.000153136106905	-0.000003484957859
783	massimi	-0.043567	0.077575	-7.339132	0.000372628251689	0.000377472467213	0.000008718332444
783	minimi	-0.263345	-0.135447	-8.027848	-0.000351531849753	-0.000252374863778	-0.000004015108038
784	massimi	-0.043633	0.080237	-7.525694	0.000329452938615	0.000285301029104	0.000010138856119
784	minimi	-0.263346	-0.133999	-7.85008	-0.000399329687455	-0.000354948884325	-0.000003580166693
785	massimi	-0.043499	0.074701	-7.074964	0.00032765580856	0.000472180650433	0.000010132620391
785	minimi	-0.263379	-0.136484	-8.143593	-0.000398441541005	-0.000151498244252	-0.000003878660124
786	massimi	-0.041327	0.080554	-7.206982	0.000207561425086	0.000284934642989	0.000010661500713
786	minimi	-0.258112	-0.133883	-7.959255	-0.000518408378453	-0.000353321398383	-0.000003184447171
787	massimi	0.107323	0.067263	-9.470577	0.000001822319246	0.000305891437337	0.000011609948002
787	minimi	-0.125358	-0.122849	-9.941478	-0.000616985795093	-0.000320699124604	-0.000014560900833
788	massimi	0.105026	0.060595	-9.414655	0.000141511507952	0.000120724070667	0.000012088866703
788	minimi	-0.121293	-0.118087	-10.129946	-0.000478200910729	-0.000496016129875	-0.00001481388017
789	massimi	0.105026	0.073743	-9.658542	0.000141511507952	0.000487096541574	0.000011243348631
789	minimi	-0.121293	-0.127188	-9.904767	-0.000478200910729	-0.000141227924106	-0.000014598477384
790	massimi	0.107272	0.073725	-9.445853	0.000062624649489	0.000437377541954	0.000012331899206
790	minimi	-0.125345	-0.127215	-9.885031	-0.000559663428967	-0.000196136600684	-0.00001572307057
791	massimi	0.102646	0.067263	-9.697784	0.00028135759441	0.000305891437337	0.000011792779937
791	minimi	-0.117114	-0.122849	-10.088728	-0.000339642426582	-0.000320699124604	-0.000014924159914
792	massimi	0.102627	0.060644	-9.501519	0.000221957500204	0.000176026152388	0.00001275935225
792	minimi	-0.117158	-0.11816	-10.183108	-0.000401582220554	-0.000449222836828	-0.000015907055128
793	massimi	0.102723	0.073749	-9.662243	0.000221787368689	0.000437810356851	0.000012366390606
793	minimi	-0.117156	-0.127215	-10.040994	-0.000401304493338	-0.000194328398586	-0.000015806790524
794	massimi	0.107371	0.060665	-9.246183	0.000062474597832	0.000176460518984	0.000012724458518
794	minimi	-0.125346	-0.118159	-10.066091	-0.00055940578161	-0.000447416186428	-0.000015822932842
795	massimi	0.190046	0.016842	-8.271825	-0.000538417833045	0.000137809483052	-0.000002104527734
795	minimi	-0.099368	-0.368584	-9.098385	-0.001049780868347	-0.00047612175804	-0.000027922122852
796	massimi	0.19121	0.020665	-8.630722	-0.00045386689659	0.000227244739379	-0.000002199877768
796	minimi	-0.090577	-0.362277	-9.311846	-0.000962486053682	-0.000393700432504	-0.000028988280844
797	massimi	0.189993	0.020671	-8.409467	-0.000508400205174	0.000194317117616	-0.000001978282009
797	minimi	-0.099402	-0.362232	-9.051471	-0.001019609705603	-0.000425145090336	-0.0000293349377
798	massimi	0.19121	0.013027	-8.34004	-0.00045386689659	0.000048374914944	-0.000000358094019
798	minimi	-0.090577	-0.37441	-9.381818	-0.000962486053682	-0.000558539595302	-0.000027576081638
799	massimi	0.192133	0.016842	-8.696015	-0.000369297836326	0.000137809483052	-0.000000546573638
799	minimi	-0.081684	-0.368584	-9.598201	-0.000875191877833	-0.00047612175804	-0.000028549110044
800	massimi	0.192074	0.013054	-8.541832	-0.000401019835676	0.00008074742518	-0.000000766418898
800	minimi	-0.081764	-0.374422	-9.621155	-0.000908758643476	-0.000529806829526	-0.00002901566714
801	massimi	0.192238	0.020642	-8.828844	-0.000400791753533	0.000195316836152	-0.00000140976615
801	minimi	-0.081675	-0.362364	-9.554462	-0.000908467731143	-0.000423972025294	-0.000029561721078
802	massimi	0.190156	0.013024	-8.114662	-0.000508170355501	0.000081746578205	-0.000001336214547
802	minimi	-0.099311	-0.374464	-9.125957	-0.001019320560801	-0.000528633198972	-0.000028786160042
803	massimi	-0.053017	0.215144	-11.925633	0.000236388131698	0.000864598086709	0.000024820947262
803	minimi	-0.358948	-0.149312	-12.441184	-0.000570166881312	0.000439379935512	-0.000004521131252
804	massimi	-0.054015	0.208419	-11.827493	0.00035664426878	0.000985821077689	0.000024631109967
804	minimi	-0.364383	-0.148774	-12.144667	-0.00045073234654	0.000557840148292	-0.000005962092791
805	massimi	-0.053047	0.208353	-11.762401	0.00028144494197	0.000942904183654	0.000025256048281
805	minimi	-0.358966	-0.148833	-12.151633	-0.000526871764815	0.000515289746299	-0.000005460445055
806	massimi	-0.054015	0.22158	-12.123036	0.00035664426878	0.000743366302499	0.000022879578733
806	minimi	-0.364383	-0.149653	-12.699818	-0.00045073234654	0.000320912418247	-0.000004819579458
807	massimi	-0.054905	0.215144	-11.926743	0.0004768998977	0.000864598086709	0.000022692579002
807	minimi	-0.369342	-0.149312	-12.501456	-0.000331296142079	0.000439379935512	-0.000006263378561
808	massimi	-0.054932	0.22148	-12.08257	0.000434153614492	0.000788962246786	0.000023837813546
808	minimi	-0.369332	-0.149711	-12.741923	-0.000375205706681	0.000364856952511	-0.000005679613298
809	massimi	-0.054889	0.208577	-11.741634	0.000432993973535	0.000943020621654	0.000024477529001
809	minimi	-0.369422	-0.148756	-12.233672	-0.000376046458374	0.00051531764593	-0.00000609671953
810	massimi	-0.053006	0.221704	-12.059798	0.000280285945285	0.000789078528694	0.0000246152527
810	minimi	-0.359055	-0.149633	-12.703423	-0.000527713160781	0.000364885008234	-0.000005042258697
811	massimi	0.197932	0.162612	-10.972468	0.000066642469682	-0.000227739698027	0.000019449861974
811	minimi	-0.114471	-0.187209	-11.699902	-0.000603531331465	-0.000684760698189	-0.000024528698099
812	massimi	0.195665	0.169309	-11.055653	0.000176153347082	-0.000120211851861	0.000019330951825
812	minimi	-0.110577	-0.192321	-12.01678	-0.000490119907502	-0.000569358672575	-0.000024129987446
813	massimi	0.197926	0.169325	-11.035959	0.000106594778651	-0.00015985393027	0.000020234161222
813	minimi	-0.114459	-0.192315	-11.907447	-0.000563308530967	-0.000612815857441	-0.000025261107779
814	massimi	0.195665	0.155708	-10.902843	0.000176153347082	-0.000335263633379	0.000020762631056
814	minimi	-0.110577	-0.181854	-11.57429	-0.000490119907502	-0.000800155369726	-0.000025334122877

815	massimi	0.193216	0.162612	-10.971222	0.000285670113745	-0.000227739698027	0.000020648649496
815	minimi	-0.106621	-0.187209	-11.905974	-0.000376710496859	-0.000684760698189	-0.000024940340814
816	massimi	0.193224	0.15576	-10.866882	0.000245661688759	-0.000296396730543	0.000021195763998
816	minimi	-0.106631	-0.181875	-11.686741	-0.000419292497649	-0.000759356000592	-0.000025851819911
817	massimi	0.193272	0.1693	-11.04745	0.00024628321022	-0.000159815761295	0.000020672414666
817	minimi	-0.106662	-0.192351	-12.100419	-0.000418514180266	-0.000612372379954	-0.000025411642762
818	massimi	0.197978	0.155735	-10.883578	0.000107215370282	-0.000296358955981	0.000020757435842
818	minimi	-0.114492	-0.181911	-11.465581	-0.000562529283754	-0.000758912128693	-0.000025701210216
819	massimi	0.098414	0.174016	-11.280562	0.000147322716791	0.000055157540647	-0.000002900211594
819	minimi	-0.125203	-0.187237	-12.685331	-0.000695329133669	-0.000711032038061	-0.000032502595707
820	massimi	0.102276	0.183357	-11.510659	0.000268469022187	0.000172422825796	-0.000003348221292
820	minimi	-0.117214	-0.184707	-12.770858	-0.000580195174523	-0.000592011086113	-0.00003218483563
821	massimi	0.098398	0.183321	-11.331789	0.000191948479176	0.000129721358598	-0.000003086511948
821	minimi	-0.125163	-0.184709	-12.820004	-0.000654702746981	-0.000636868730362	-0.000033565354966
822	massimi	0.102276	0.164459	-11.382875	0.000268469022187	-0.000062094955893	-0.000001948486896
822	minimi	-0.117214	-0.189533	-12.470759	-0.000580195174523	-0.000830057681793	-0.000033462263602
823	massimi	0.106258	0.174016	-11.615696	0.000389623558183	0.000055157540647	-0.00000240076216
823	minimi	-0.109324	-0.187237	-12.553562	-0.000465065597692	-0.000711032038061	-0.00003314023796
824	massimi	0.106225	0.164473	-11.539478	0.000345791625271	-0.0000191821643	-0.00000239221213
824	minimi	-0.109329	-0.189522	-12.388196	-0.000508500201987	-0.000788010898555	-0.000034265461605
825	massimi	0.106297	0.183391	-11.659532	0.0003458604098	0.000129679501642	-0.0000029039425
825	minimi	-0.109391	-0.184768	-12.695265	-0.000507562829585	-0.000636348663886	-0.00003379843688
826	massimi	0.098475	0.164542	-11.197182	0.000192015023514	-0.000019222175028	-0.000002574772065
826	minimi	-0.125231	-0.18958	-12.527488	-0.000653763134389	-0.000787492678307	-0.000034032389204
827	massimi	0.177255	0.114792	-8.48581	-0.000100388169533	-0.000311880698026	0.000003886344194
827	minimi	-0.057482	-0.235573	-9.571717	-0.0007734095661	-0.000892764105254	-0.000024098877825
828	massimi	0.179773	0.119602	-8.87226	-0.000007839795373	-0.000223718968878	0.000003687551802
828	minimi	-0.053348	-0.233735	-9.805656	-0.00068942957229	-0.00080438572679	-0.00000508673978251
829	massimi	0.177243	0.119625	-8.661598	-0.000067060174245	-0.000256573254974	0.000004112854916
829	minimi	-0.057479	-0.233746	-9.767779	-0.000744342535494	-0.000838461027859	-0.000024813083253
830	massimi	0.179773	0.109837	-8.512423	-0.000007839795373	-0.000399993677198	0.000005218958078
830	minimi	-0.053348	-0.237098	-9.379602	-0.00068942957229	-0.000981176362257	-0.000024288035792
831	massimi	0.182132	0.114792	-8.912008	0.000084711626036	-0.000311880698026	0.000005019199007
831	minimi	-0.049232	-0.235573	-9.600407	-0.000605444017883	-0.000892764105254	-0.000024062169538
832	massimi	0.182108	0.109886	-8.725708	0.000050465029536	-0.000368517081906	0.000005086727041
832	minimi	-0.049252	-0.2371	-9.373252	-0.000637695668443	-0.000950689271759	-0.00002495108461
833	massimi	0.182191	0.119584	-9.06062	0.00005135692127	-0.00025624506175	0.000004527230179
833	minimi	-0.049247	-0.233796	-9.822838	-0.000636739551568	-0.000837719561553	-0.000024799957892
834	massimi	0.177327	0.109845	-8.279464	-0.000066169031455	-0.000368187164668	0.000004672950691
834	minimi	-0.057475	-0.23715	-9.365415	-0.000743385669675	-0.000949949529466	-0.000024964763884
835	massimi	0.261084	0.147653	-10.604825	-0.000181180179113	-0.000030027615757	-0.000004143538935
835	minimi	-0.01995	-0.236911	-11.251906	-0.000644221258514	-0.000667375444798	-0.00002381262327
836	massimi	0.266407	0.152214	-10.731579	-0.000072660792249	0.000075092246916	-0.000003801357965
836	minimi	-0.016138	-0.232448	-11.551588	-0.000537250399626	-0.000556996992269	-0.00002341004163
837	massimi	0.261093	0.152259	-10.615651	-0.000141925304035	0.000036507314551	-0.000004002578901
837	minimi	-0.019934	-0.232439	-11.443125	-0.000606327178652	-0.000598677925516	-0.000024263644164
838	massimi	0.266407	0.142895	-10.687312	-0.000072660792249	-0.000135145907465	-0.00000339727922
838	minimi	-0.016138	-0.241053	-11.140881	-0.000537250399626	-0.000777746858795	-0.000022988390386
839	massimi	0.271376	0.147653	-10.811817	0.000035917030678	-0.000030027615756	-0.000003065481758
839	minimi	-0.012319	-0.236911	-11.44281	-0.000430330447398	-0.000667375444798	-0.000022575425239
840	massimi	0.271358	0.142965	-10.778801	-0.000004099093117	-0.000096979525422	-0.000003455309574
840	minimi	-0.012324	-0.24102	-11.222998	-0.000470505808887	-0.000738838666227	-0.000023662815428
841	massimi	0.271437	0.152184	-10.810327	-0.000003610741485	0.000036827887907	-0.000003608631513
841	minimi	-0.012339	-0.232544	-11.64564	-0.000469924295894	-0.000598062852838	-0.00002381131567
842	massimi	0.261172	0.14289	-10.559172	-0.000141437772426	-0.000096658636344	-0.00000384938831
842	minimi	-0.019949	-0.241126	-11.045435	-0.000605744845637	-0.00073822390927	-0.000024115012575
843	massimi	0.321873	-0.140158	-3.281237	-0.001504942232268	-0.000233417970307	0.000039708232462
843	minimi	0.022602	-0.540133	-3.746427	-0.00176489434052	-0.000768063345493	0.000000656493515
844	massimi	0.30857	-0.148598	-4.031892	-0.001470901942566	-0.000195572191857	0.000039552028948
844	minimi	0.022126	-0.545228	-4.36589	-0.001727957780069	-0.000734906347014	-0.000000804356006
845	massimi	0.321735	-0.14854	-3.52632	-0.001495353364944	-0.000211023601986	0.000041378187324
845	minimi	0.022503	-0.545221	-3.820923	-0.001754505824973	-0.000749446811521	0.000000203912531
846	massimi	0.30857	-0.13148	-3.534912	-0.001470901942566	-0.000271260609864	0.000042547239941
846	minimi	0.022126	-0.534326	-4.209519	-0.001727957780069	-0.000801211119497	0.000002493826007
847	massimi	0.294843	-0.140158	-4.284607	-0.001436482825296	-0.000233417970307	0.000042381080887
847	minimi	0.021613	-0.540133	-4.829941	-0.001691360557002	-0.000768063345493	0.000001042932027
848	massimi	0.294776	-0.131467	-4.032032	-0.001452034087101	-0.000259080479777	0.000043449927546
848	minimi	0.021517	-0.534348	-4.746206	-0.001707669248902	-0.000791545787644	0.00000155077923
849	massimi	0.295065	-0.148648	-4.517996	-0.001451187192972	-0.000208507390815	0.000042354608272

849	minimi	0.021718	-0.545351	-4.912434	-0.001706979801291	-0.000747055750197	0.000000345727165
850	massimi	0.322023	-0.131576	-3.029934	-0.001494429618382	-0.000256564334297	0.000042472387232
850	minimi	0.022705	-0.534478	-3.665116	-0.001753893229794	-0.000789154660629	0.000001410083963
851	massimi	0.340014	-0.006578	-7.681988	-0.000059374363927	-0.000428883938991	0.000016770792487
851	minimi	0.030551	-0.166261	-8.017305	-0.00096584946433	-0.000876601900155	-0.000016863035383
852	massimi	0.339856	-0.00774	-8.076041	0.000017180392487	-0.000353062843355	0.000017333840433
852	minimi	0.030425	-0.165521	-8.333684	-0.00088965318956	-0.000799658521068	-0.000016512811631
853	massimi	0.340017	-0.00768	-7.866538	-0.000031898658781	-0.000381684281397	0.000017793147503
853	minimi	0.030534	-0.16547	-8.240343	-0.000939970804544	-0.000829584156986	-0.000017036877837
854	massimi	0.339856	-0.00535	-7.743814	0.000017180392487	-0.000504699651279	0.000017916845664
854	minimi	0.030425	-0.166827	-7.814233	-0.000889653189559	-0.00095353454626	-0.000015496873441
855	massimi	0.33927	-0.006578	-8.00002	0.000093735145107	-0.000428883938991	0.000018486974937
855	minimi	0.030211	-0.166261	-8.268459	-0.000813446140248	-0.000876601900155	-0.000015153731016
856	massimi	0.339275	-0.005296	-7.781367	0.000065315227376	-0.000477963258331	0.000018633542622
856	minimi	0.030195	-0.166772	-8.043524	-0.00084320517481	-0.000927284695941	-0.00001604073497
857	massimi	0.339358	-0.007795	-8.153482	0.000066314957888	-0.000381186429799	0.0000184203206
857	minimi	0.030236	-0.16562	-8.521577	-0.000842202199575	-0.000828743574851	-0.000016411961371
858	massimi	0.3401	-0.005413	-7.462612	-0.000030899050497	-0.000477465220727	0.000018006137977
858	minimi	0.030575	-0.166922	-7.794101	-0.00093896770708	-0.000926444299813	-0.000016665419888
859	massimi	0.352401	-0.037643	-2.831606	-0.000194079075597	-0.001407034553492	0.000042724466411
859	minimi	0.075257	-0.083547	-3.306488	-0.00080246206896	-0.001557109985702	-0.000006355949899
860	massimi	0.344314	-0.035949	-3.543651	-0.000165587895745	-0.001380996414459	0.000043316409326
860	minimi	0.070829	-0.09796	-3.868709	-0.000776759459618	-0.001528930222561	-0.000005588203514
861	massimi	0.352402	-0.035885	-3.293682	-0.000185120518667	-0.001393185801287	0.000044660324994
861	minimi	0.075234	-0.097857	-3.803737	-0.000795431562349	-0.001542043793205	-0.000006001547547
862	massimi	0.344314	-0.039177	-2.617768	-0.000165587895745	-0.001433054145675	0.0000440855294
862	minimi	0.070829	-0.069124	-2.860833	-0.000776759459618	-0.001585271703087	-0.000005236191719
863	massimi	0.335873	-0.037643	-3.29093	-0.000137094198714	-0.001407034553492	0.000044681079375
863	minimi	0.066178	-0.083547	-3.461937	-0.000751047734101	-0.001557109985702	-0.000004472052395
864	massimi	0.335917	-0.039106	-2.828677	-0.000148939101297	-0.00142623928333	0.000045656640242
864	minimi	0.066179	-0.069097	-2.952092	-0.000762786978526	-0.001577816312356	-0.000005184275147
865	massimi	0.335963	-0.036031	-3.7463	-0.000146588566868	-0.001392363147137	0.000045375495643
865	minimi	0.06622	-0.09801	-3.964803	-0.000760590309817	-0.001541420821208	-0.000005312928507
866	massimi	0.352449	-0.039252	-2.364081	-0.00018277006104	-0.001425415770239	0.000044941439163
866	minimi	0.075275	-0.069249	-2.803005	-0.000793234816839	-0.001577194199299	-0.000005872863756
867	massimi	0.229259	0.067344	-7.914133	0.000431589406665	0.000458354807826	0.000013255050907
867	minimi	-0.195562	-0.026576	-8.018389	-0.000450317840015	-0.000332599194874	-0.000006495407615
868	massimi	0.231126	0.066204	-7.744614	0.000506271119346	0.000534227814726	0.000012437410844
868	minimi	-0.199715	-0.027773	-8.103487	-0.000373221476281	-0.000256695722845	-0.000005343906818
869	massimi	0.229303	0.066221	-7.784784	0.000459721230351	0.000507272877331	0.000013129410059
869	minimi	-0.195593	-0.027767	-8.088828	-0.00042272884332	-0.000284844559958	-0.000005978401468
870	massimi	0.231126	0.068436	-7.759584	0.000506271119346	0.000382476692768	0.000012301637681
870	minimi	-0.199715	-0.025388	-8.170558	-0.000373221476281	-0.000408499111209	-0.000005585279391
871	massimi	0.232673	0.067344	-7.658164	0.000580946893782	0.000458354807826	0.000011513750285
871	minimi	-0.203594	-0.026576	-8.187558	-0.00029612081681	-0.000332599194874	-0.00000446353126
872	massimi	0.232709	0.068446	-7.630928	0.000554552922692	0.000410921533817	0.000012435568645
872	minimi	-0.203605	-0.025386	-8.237935	-0.000324824419283	-0.000381229332822	-0.000005316203264
873	massimi	0.23269	0.066211	-7.621842	0.00055445236363	0.000507265271839	0.000012485087455
873	minimi	-0.203616	-0.02778	-8.165125	-0.000324916778046	-0.000285041061839	-0.000005227867146
874	massimi	0.229285	0.068439	-7.841596	0.000459620710671	0.000410913683741	0.000013079687975
874	minimi	-0.195604	-0.025402	-8.113912	-0.000422821241465	-0.000381425590119	-0.000006066534312
875	massimi	0.192994	0.073457	-11.255346	0.000371505185439	0.00051256199726	0.000011480037447
875	minimi	-0.211007	-0.043023	-11.571966	-0.000511859781088	-0.000124128037825	-0.000006783145004
876	massimi	0.194923	0.07282	-11.184831	0.000483197409279	0.000623790404252	0.000010582206384
876	minimi	-0.21449	-0.043947	-11.488757	-0.000400363678312	-0.00001217102712	-0.000005835043267
877	massimi	0.193033	0.072824	-11.133693	0.000413214729904	0.00058399793167	0.000011252205298
877	minimi	-0.211041	-0.04395	-11.540792	-0.000471658435556	-0.000053165843771	-0.000006407672573
878	massimi	0.194923	0.074026	-11.306513	0.000483197409279	0.000401328631573	0.000010773713932
878	minimi	-0.21449	-0.042072	-11.620483	-0.000400363678312	-0.000236084885083	-0.000006308102621
879	massimi	0.196585	0.073457	-11.221237	0.00059488444311	0.00051256199726	0.000009926905855
879	minimi	-0.217678	-0.043023	-11.552035	-0.000288863408117	-0.000124128037825	-0.00000541102387
880	massimi	0.196615	0.074025	-11.220459	0.00055045095051	0.000442750057141	0.000010785926987
880	minimi	-0.217695	-0.042079	-11.653042	-0.000330071152239	-0.000195335617704	-0.00000611047078
881	massimi	0.196598	0.072839	-11.109087	0.000554737305332	0.00058402596152	0.000010698922281
881	minimi	-0.217701	-0.043951	-11.511455	-0.000330359247133	-0.000053320946304	-0.000005920552796
882	massimi	0.193017	0.074042	-11.263875	0.000412906914638	0.000442778162852	0.000011320509904
882	minimi	-0.211047	-0.042081	-11.663569	-0.000471946504902	-0.000195490796099	-0.000006578890457
883	massimi	0.140789	0.065307	-11.490209	0.000330279240188	0.000553192964057	0.00001113690468
883	minimi	-0.173366	-0.052794	-11.79506	-0.000550842864316	0.000026579232238	-0.000005276957229

884	massimi	0.142074	0.064577	-11.41579	0.000444243193183	0.000667383655484	0.000010400266642
884	minimi	-0.176574	-0.053971	-11.677879	-0.000436633520144	0.000140558212339	-0.000004665233636
885	massimi	0.140814	0.064577	-11.338115	0.000372835612706	0.000626550145098	0.000011057110637
885	minimi	-0.173396	-0.053977	-11.731481	-0.000509643205626	0.000099036132777	-0.000005111156972
886	massimi	0.142074	0.065976	-11.630147	0.000444243193183	0.0004389962557	0.000010736868512
886	minimi	-0.176574	-0.051574	-11.841756	-0.000436633520144	-0.000087400888269	-0.000005117591463
887	massimi	0.143175	0.065307	-11.481793	0.000558202031664	0.000553192964057	0.000010031630515
887	minimi	-0.179549	-0.052794	-11.798511	-0.000322419155399	0.000026579232238	-0.0000045140537
888	massimi	0.143196	0.065972	-11.54002	0.000517550812683	0.000481539983368	0.000010784384983
888	minimi	-0.179565	-0.051586	-11.902184	-0.00036460994456	-0.000045702166537	-0.000004997401205
889	massimi	0.143186	0.064597	-11.347604	0.000517082303568	0.000626628754647	0.000010661422323
889	minimi	-0.179564	-0.053972	-11.717035	-0.000365030846172	0.000098945849462	-0.000004832127238
890	massimi	0.140807	0.065993	-11.561391	0.000372367091292	0.00048161851459	0.000011180248822
890	minimi	-0.173399	-0.051582	-11.885769	-0.000510064094939	-0.000045792371524	-0.000005276606464
891	massimi	0.111014	0.060139	-11.472318	0.00032439169897	0.000539043143789	0.000013259853809
891	minimi	-0.176365	-0.059211	-11.861579	-0.00055607163652	0.000052013120915	-0.000003234152193
892	massimi	0.109657	0.058676	-11.3693	0.000438965922026	0.000652479511481	0.000012638092424
892	minimi	-0.178302	-0.060995	-11.772767	-0.000441934520042	0.000167284462763	-0.000002925615981
893	massimi	0.111027	0.058671	-11.321218	0.000367172076136	0.000611910182526	0.000013343843738
893	minimi	-0.176395	-0.061005	-11.793274	-0.000514907987598	0.000125311889658	-0.000003194296956
894	massimi	0.109657	0.061551	-11.590395	0.000438965922026	0.000425605943651	0.000013026150485
894	minimi	-0.178302	-0.057377	-11.937268	-0.000441934520042	-0.000063264685123	-0.00000332226208
895	massimi	0.108159	0.060139	-11.462921	0.000553537401603	0.000539043143789	0.000012411617716
895	minimi	-0.180002	-0.059211	-11.872912	-0.000327794623437	0.000052013120915	-0.000003020954484
896	massimi	0.108179	0.061538	-11.543909	0.000512663685404	0.000467861041578	0.000013175502998
896	minimi	-0.180023	-0.057397	-11.957428	-0.000369967813538	-0.000021070752723	-0.000003261215601
897	massimi	0.108175	0.058705	-11.30489	0.000512175279483	0.000611964347511	0.000013033755194
897	minimi	-0.18002	-0.06099	-11.811535	-0.000370386128887	0.000125262278708	-0.000003116328684
898	massimi	0.111024	0.061573	-11.519982	0.000366683536046	0.000467915462969	0.00001348581587
898	minimi	-0.176393	-0.057382	-11.979422	-0.000515326168779	-0.000021120620078	-0.000003339408202
899	massimi	0.071807	0.049652	-11.457369	0.000309615233677	0.000463440144927	0.000014680637149
899	minimi	-0.188292	-0.067222	-11.752576	-0.000572725564786	-0.000014298251724	-0.000001055419789
900	massimi	0.069836	0.047593	-11.407725	0.00042318087113	0.000577383511777	0.000014072412923
900	minimi	-0.190774	-0.06952	-11.667317	-0.000458750918891	0.000099296111984	-0.000001087868666
901	massimi	0.071809	0.047577	-11.343045	0.000351953116774	0.00053650370378	0.000014787604757
901	minimi	-0.188327	-0.069539	-11.693863	-0.00053170844032	0.000057806954219	-0.00000111132213
902	massimi	0.069836	0.051672	-11.575966	0.00042318087113	0.000349492146077	0.000014434583319
902	minimi	-0.190774	-0.06486	-11.792089	-0.000458750918891	-0.000127893528127	-0.000001287497901
903	massimi	0.067781	0.049652	-11.449546	0.000536741745954	0.000463440144926	0.000013849418025
903	minimi	-0.193004	-0.067222	-11.783605	-0.000344771071252	-0.000014298251724	-0.000001343005709
904	massimi	0.067793	0.051646	-11.500445	0.000496162744022	0.000391808528305	0.000014630105503
904	minimi	-0.193027	-0.064892	-11.85212	-0.000386973108046	-0.000086442829828	-0.00000130335802
905	massimi	0.067798	0.047632	-11.330457	0.000495772315511	0.000536565611101	0.000014459790488
905	minimi	-0.193019	-0.069507	-11.729615	-0.000387271694324	0.000057799613816	-0.000001192455316
906	massimi	0.071813	0.051701	-11.492737	0.00035156269519	0.000391870278996	0.000014889668019
906	minimi	-0.18832	-0.064859	-11.836664	-0.000532007033525	-0.000086450013601	-0.00000115397308
907	massimi	1.131929	1.402637	0.00	0.00	0.00	0.000070344528044
907	minimi	-1.131929	-1.402637	0.00	0.00	0.00	-0.000070344528044
908	massimi	1.905656	2.234483	0.00	0.00	0.00	0.000120572655189
908	minimi	-1.905656	-2.234483	0.00	0.00	0.00	-0.000120572655189
909	massimi	2.483098	2.726639	0.00	0.00	0.00	0.000156184970186
909	minimi	-2.483098	-2.726639	0.00	0.00	0.00	-0.000156184970186
910	massimi	3.491991	4.102922	0.00	0.00	0.00	0.000209546996148
910	minimi	-3.491991	-4.102922	0.00	0.00	0.00	-0.000209546996148

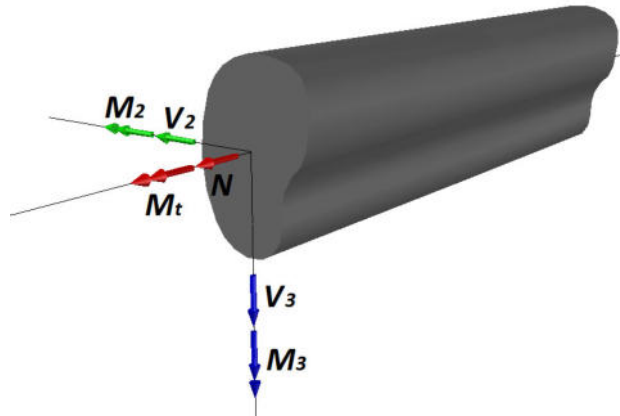
1.4.4.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;

- N : sforzo normale;
- V_2 : sforzo di taglio in direzione 2;
- V_3 : sforzo di taglio in direzione 3;
- M_t : momento torcente;
- M_2 : momento flettente nel piano 1-2;
- M_3 : momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 1 (11-1)	31	massimi	0.00	6.3079	0.33224	12.71299	0.01769	2.70627	0.88
Asta 1 (11-1)	31	massimi	237.00	6.3079	0.33224	-0.5827	0.01769	5.76925	0.136
Asta 1 (11-1)	31	massimi	474.00	6.3079	0.33224	-13.8784	0.01769	-11.36728	-0.059
Asta 1 (11-1)	31	minimi	0.00	2.22982	0.06775	7.79363	-0.80514	-8.60526	0.262
Asta 1 (11-1)	31	minimi	237.00	2.22982	0.06775	-5.50207	-0.80514	5.42166	0.058
Asta 1 (11-1)	31	minimi	474.00	2.22982	0.06775	-18.79777	-0.80514	-23.37353	-0.695
Asta 2 (1-221)	32	massimi	0.00	19.70456	0.2193	20.48613	0.08279	-14.34022	0.516
Asta 2 (1-221)	32	massimi	315.00	19.70456	0.2193	2.81463	0.08279	9.6991	-0.059
Asta 2 (1-221)	32	massimi	630.00	19.70456	0.2193	-14.85687	0.08279	-9.88306	0.239
Asta 2 (1-221)	32	minimi	0.00	14.34659	-0.09615	16.46695	-0.7118	-27.61535	-0.369
Asta 2 (1-221)	32	minimi	315.00	14.34659	-0.09615	-1.20455	-0.7118	9.08231	-0.182
Asta 2 (1-221)	32	minimi	630.00	14.34659	-0.09615	-18.87605	-0.7118	-21.92901	-0.868
Asta 3 (6-16)	33	massimi	0.00	7.03983	0.60751	22.62243	-0.14886	-21.84868	1.412
Asta 3 (6-16)	33	massimi	237.00	7.03983	0.60751	9.32673	-0.14886	5.61057	0.061
Asta 3 (6-16)	33	massimi	474.00	7.03983	0.60751	-3.96897	-0.14886	11.68882	-0.275
Asta 3 (6-16)	33	minimi	0.00	3.33311	0.13347	18.23383	-0.89781	-32.51992	0.357
Asta 3 (6-16)	33	minimi	237.00	3.33311	0.13347	4.93813	-0.89781	5.33935	-0.048
Asta 3 (6-16)	33	minimi	474.00	3.33311	0.13347	-8.35757	-0.89781	1.55802	-1.468
Asta 4 (221-6)	34	massimi	0.00	18.67536	0.08071	18.34781	0.93138	-8.29686	0.247
Asta 4 (221-6)	34	massimi	315.00	18.67536	0.08071	0.67631	0.93138	9.65828	0.038
Asta 4 (221-6)	34	massimi	630.00	18.67536	0.08071	-16.99519	0.93138	-16.04503	0.821
Asta 4	34	minimi	0.00	13.46638	-0.27909	14.33953	-0.24135	-20.30589	-0.938

(221-6)									
Asta 4 (221-6)	34	minimi	315.00	13.46638	-0.27909	-3.33197	-0.24135	9.03887	-0.104
Asta 4 (221-6)	34	minimi	630.00	13.46638	-0.27909	-21.00347	-0.24135	-29.28837	-0.262
Asta 5 (26-11)	35	massimi	0.00	6.54204	0.03287	15.95597	-0.08532	-3.79452	0.042
Asta 5 (26-11)	35	massimi	237.00	6.54204	0.03287	2.66028	-0.08532	5.53714	0.022
Asta 5 (26-11)	35	massimi	474.00	6.54204	0.03287	-10.63542	-0.08532	-3.9216	0.451
Asta 5 (26-11)	35	minimi	0.00	4.00344	-0.18579	10.55934	-0.87814	-16.53132	-0.43
Asta 5 (26-11)	35	minimi	237.00	4.00344	-0.18579	-2.73636	-0.87814	5.46752	-0.048
Asta 5 (26-11)	35	minimi	474.00	4.00344	-0.18579	-16.03206	-0.87814	-16.76487	-0.115
Asta 6 (11-226)	36	massimi	0.00	28.07735	0.22681	21.46629	0.43205	-20.26352	0.674
Asta 6 (11-226)	36	massimi	315.00	28.07735	0.22681	3.79479	0.43205	9.40451	0.011
Asta 6 (11-226)	36	massimi	630.00	28.07735	0.22681	-13.87671	0.43205	-7.03264	0.183
Asta 6 (11-226)	36	minimi	0.00	17.23158	-0.05765	18.25409	-0.64031	-30.93985	-0.181
Asta 6 (11-226)	36	minimi	315.00	17.23158	-0.05765	0.58259	-0.64031	8.84607	-0.051
Asta 6 (11-226)	36	minimi	630.00	17.23158	-0.05765	-17.08891	-0.64031	-16.59326	-0.756
Asta 7 (16-21)	37	massimi	0.00	8.39747	0.02403	10.82311	-0.26749	-3.95397	0.041
Asta 7 (16-21)	37	massimi	307.50	8.39747	0.02403	1.04461	-0.26749	5.24641	-0.02
Asta 7 (16-21)	37	massimi	615.00	8.39747	0.02403	-8.73389	-0.26749	-6.59246	0.143
Asta 7 (16-21)	37	minimi	0.00	7.02798	-0.06394	7.85032	-0.71541	-13.01688	-0.251
Asta 7 (16-21)	37	minimi	307.50	7.02798	-0.06394	-1.92818	-0.71541	5.13466	-0.068
Asta 7 (16-21)	37	minimi	615.00	7.02798	-0.06394	-11.70668	-0.71541	-15.81233	-0.108
Asta 8 (16-31)	38	massimi	0.00	11.19191	0.42305	17.95199	0.11662	-10.3268	1.122
Asta 8 (16-31)	38	massimi	237.00	11.19191	0.42305	4.65629	0.11662	5.74664	0.141
Asta 8 (16-31)	38	massimi	474.00	11.19191	0.42305	-8.63941	0.11662	0.96234	-0.21
Asta 8 (16-31)	38	minimi	0.00	8.67532	0.10515	13.42248	-0.75549	-21.10852	0.288
Asta 8 (16-31)	38	minimi	237.00	8.67532	0.10515	0.12678	-0.75549	5.66472	0.017
Asta 8 (16-31)	38	minimi	474.00	8.67532	0.10515	-13.16892	-0.75549	-9.72592	-0.884
Asta 9 (226-16)	39	massimi	0.00	22.50701	0.05578	17.12242	0.9344	-5.67155	0.129
Asta 9 (226-16)	39	massimi	315.00	22.50701	0.05578	-0.54908	0.9344	9.84472	-0.023
Asta 9 (226-16)	39	massimi	630.00	22.50701	0.05578	-18.22058	0.9344	-19.71839	0.764
Asta 9 (226-16)	39	minimi	0.00	18.56805	-0.26298	13.56718	-0.43217	-16.25931	-0.893
Asta 9 (226-16)	39	minimi	315.00	18.56805	-0.26298	-4.10432	-0.43217	9.23144	-0.089
Asta 9 (226-16)	39	minimi	630.00	18.56805	-0.26298	-21.77582	-0.43217	-31.52886	-0.223
Asta 10 (21-36)	40	massimi	0.00	15.4966	0.13556	15.94288	-0.34053	-16.29183	0.396
Asta 10 (21-36)	40	massimi	237.00	15.4966	0.13556	8.40628	-0.34053	2.90148	0.079
Asta 10	40	massimi	474.00	15.4966	0.13556	0.86967	-0.34053	13.16685	-0.139

(21-36)									
Asta 10 (21-36)	40	minimi	0.00	14.68735	0.08246	11.86673	-0.80132	-26.67891	0.237
Asta 10 (21-36)	40	minimi	237.00	14.68735	0.08246	4.33013	-0.80132	2.1748	0.038
Asta 10 (21-36)	40	minimi	474.00	14.68735	0.08246	-3.20648	-0.80132	4.23296	-0.26
Asta 11 (41-26)	41	massimi	0.00	4.59123	0.15728	16.10047	0.44235	-4.38533	0.207
Asta 11 (41-26)	41	massimi	237.00	4.59123	0.15728	2.80477	0.44235	5.29493	-0.156
Asta 11 (41-26)	41	massimi	474.00	4.59123	0.15728	-10.49093	0.44235	-3.81672	-0.229
Asta 11 (41-26)	41	minimi	0.00	3.47285	0.02512	10.7302	-0.35351	-17.11132	-0.11
Asta 11 (41-26)	41	minimi	237.00	3.47285	0.02512	-2.5655	-0.35351	5.28628	-0.18
Asta 11 (41-26)	41	minimi	474.00	3.47285	0.02512	-15.8612	-0.35351	-16.54582	-0.539
Asta 12 (26-231)	42	massimi	0.00	22.71926	0.21979	20.57988	0.50849	-19.6574	0.637
Asta 12 (26-231)	42	massimi	315.00	22.71926	0.21979	2.90838	0.50849	9.26231	0.001
Asta 12 (26-231)	42	massimi	630.00	22.71926	0.21979	-14.76311	0.50849	-9.84005	0.207
Asta 12 (26-231)	42	minimi	0.00	15.86466	-0.07461	18.01626	-0.59737	-28.16298	-0.264
Asta 12 (26-231)	42	minimi	315.00	15.86466	-0.07461	0.34476	-0.59737	8.82993	-0.086
Asta 12 (26-231)	42	minimi	630.00	15.86466	-0.07461	-17.32674	-0.59737	-17.48553	-0.749
Asta 13 (31-36)	43	massimi	0.00	11.49759	-0.00829	11.15878	0.09882	-7.35661	-0.034
Asta 13 (31-36)	43	massimi	307.50	11.49759	-0.00829	1.38028	0.09882	4.81616	0.003
Asta 13 (31-36)	43	massimi	615.00	11.49759	-0.00829	-8.39822	0.09882	-5.98768	0.318
Asta 13 (31-36)	43	minimi	0.00	10.88779	-0.10601	8.81875	-0.1199	-14.47646	-0.334
Asta 13 (31-36)	43	minimi	307.50	10.88779	-0.10601	-0.95975	-0.1199	4.71279	-0.019
Asta 13 (31-36)	43	minimi	615.00	10.88779	-0.10601	-10.73825	-0.1199	-13.25913	0.017
Asta 14 (31-46)	44	massimi	0.00	10.80563	0.40317	16.34881	0.41013	-6.6891	1.08
Asta 14 (31-46)	44	massimi	237.00	10.80563	0.40317	3.05311	0.41013	5.47355	0.14
Asta 14 (31-46)	44	massimi	474.00	10.80563	0.40317	-10.24259	0.41013	-3.05353	-0.391
Asta 14 (31-46)	44	minimi	0.00	9.15141	0.21489	11.77963	-0.38241	-17.52528	0.618
Asta 14 (31-46)	44	minimi	237.00	9.15141	0.21489	-1.51607	-0.38241	5.46568	0.093
Asta 14 (31-46)	44	minimi	474.00	9.15141	0.21489	-14.81176	-0.38241	-13.87525	-0.841
Asta 15 (231-31)	45	massimi	0.00	16.30424	0.06037	17.26459	0.69777	-8.00356	0.218
Asta 15 (231-31)	45	massimi	315.00	16.30424	0.06037	-0.40691	0.69777	9.92429	0.07
Asta 15 (231-31)	45	massimi	630.00	16.30424	0.06037	-18.07841	0.69777	-19.19052	0.848
Asta 15 (231-31)	45	minimi	0.00	15.49207	-0.26283	14.39268	-0.70805	-16.627	-0.822
Asta 15 (231-31)	45	minimi	315.00	15.49207	-0.26283	-3.27882	-0.70805	9.5003	-0.037
Asta 15 (231-31)	45	minimi	630.00	15.49207	-0.26283	-20.95032	-0.70805	-28.66017	-0.177
Asta 16 (36-51)	46	massimi	0.00	31.78003	0.19306	13.96874	1.09454	-10.43754	0.376
Asta 16	46	massimi	237.00	31.78003	0.19306	6.43214	1.09454	4.29148	0.115

(36-51)									
Asta 16 (36-51)	46	massimi	474.00	31.78003	0.19306	-1.10446	1.09454	10.53691	0.166
Asta 16 (36-51)	46	minimi	0.00	29.20069	-0.02468	9.97065	0.57696	-19.95151	0.034
Asta 16 (36-51)	46	minimi	237.00	29.20069	-0.02468	2.43405	0.57696	4.1941	-0.104
Asta 16 (36-51)	46	minimi	474.00	29.20069	-0.02468	-5.10255	0.57696	1.09981	-0.554
Asta 17 (71-41)	47	massimi	0.00	3.80442	0.1023	16.19159	0.99344	-4.36673	0.048
Asta 17 (71-41)	47	massimi	237.00	3.80442	0.1023	2.89589	0.99344	5.38	-0.193
Asta 17 (71-41)	47	massimi	474.00	3.80442	0.1023	-10.39981	0.99344	-3.54149	0.033
Asta 17 (71-41)	47	minimi	0.00	3.01681	-0.14075	10.75347	0.19861	-17.26802	-0.634
Asta 17 (71-41)	47	minimi	237.00	3.01681	-0.14075	-2.54223	0.19861	5.33421	-0.302
Asta 17 (71-41)	47	minimi	474.00	3.01681	-0.14075	-15.83793	0.19861	-16.41693	-0.437
Asta 18 (41-236)	48	massimi	0.00	20.93563	0.15301	20.5758	0.52058	-19.95439	0.248
Asta 18 (41-236)	48	massimi	315.00	20.93563	0.15301	2.9043	0.52058	9.20108	-0.184
Asta 18 (41-236)	48	massimi	630.00	20.93563	0.15301	-14.7672	0.52058	-9.88751	0.263
Asta 18 (41-236)	48	minimi	0.00	14.82915	-0.14648	18.09145	-0.58577	-28.18461	-0.661
Asta 18 (41-236)	48	minimi	315.00	14.82915	-0.14648	0.41995	-0.58577	8.79653	-0.25
Asta 18 (41-236)	48	minimi	630.00	14.82915	-0.14648	-17.25155	-0.58577	-17.30871	-0.718
Asta 19 (46-51)	49	massimi	0.00	13.48037	0.04388	12.94958	-0.50348	-12.77598	0.063
Asta 19 (46-51)	49	massimi	307.50	13.48037	0.04388	3.17108	-0.50348	5.69471	0.057
Asta 19 (46-51)	49	massimi	615.00	13.48037	0.04388	-6.60742	-0.50348	0.29366	0.378
Asta 19 (46-51)	49	minimi	0.00	11.97594	-0.10529	10.89567	-0.72514	-19.2088	-0.288
Asta 19 (46-51)	49	minimi	307.50	11.97594	-0.10529	1.11717	-0.72514	5.57575	-0.094
Asta 19 (46-51)	49	minimi	615.00	11.97594	-0.10529	-8.66134	-0.72514	-5.90575	-0.226
Asta 20 (46-76)	50	massimi	0.00	9.90282	0.48115	15.79808	0.91797	-5.21759	1.115
Asta 20 (46-76)	50	massimi	237.00	9.90282	0.48115	2.50238	0.91797	5.52678	0.067
Asta 20 (46-76)	50	massimi	474.00	9.90282	0.48115	-10.79332	0.91797	-4.31164	-0.259
Asta 20 (46-76)	50	minimi	0.00	8.86925	0.13726	11.17579	0.1267	-16.17294	0.392
Asta 20 (46-76)	50	minimi	237.00	8.86925	0.13726	-2.11991	0.1267	5.49996	-0.026
Asta 20 (46-76)	50	minimi	474.00	8.86925	0.13726	-15.41561	0.1267	-15.26597	-1.166
Asta 21 (236-46)	51	massimi	0.00	14.45473	0.0606	17.31983	0.51488	-8.91911	0.359
Asta 21 (236-46)	51	massimi	315.00	14.45473	0.0606	-0.35167	0.51488	9.9421	0.184
Asta 21 (236-46)	51	massimi	630.00	14.45473	0.0606	-18.02317	0.51488	-19.01979	0.978
Asta 21 (236-46)	51	minimi	0.00	13.89511	-0.26657	14.70307	-0.89494	-16.80437	-0.702
Asta 21 (236-46)	51	minimi	315.00	13.89511	-0.26657	-2.96843	-0.89494	9.54133	0.121
Asta 21 (236-46)	51	minimi	630.00	13.89511	-0.26657	-20.63992	-0.89494	-27.62031	-0.024
Asta 22	52	massimi	0.00	42.18359	0.71698	6.40464	17.16333	-2.59312	0.969

(66-51)									
Asta 22 (66-51)	52	massimi	116.50	42.18359	0.71698	2.69994	17.16333	1.64842	0.187
Asta 22 (66-51)	52	massimi	233.00	42.18359	0.71698	-1.00476	17.16333	2.563	1.311
Asta 22 (66-51)	52	minimi	0.00	35.58142	-1.4187	1.8431	14.49085	-4.02763	-1.997
Asta 22 (66-51)	52	minimi	116.50	35.58142	-1.4187	-1.8616	14.49085	-2.97653	-0.398
Asta 22 (66-51)	52	minimi	233.00	35.58142	-1.4187	-5.5663	14.49085	-7.23043	-0.705
Asta 23 (61-56)	53	massimi	0.00	1.93082	1.70516	-17.63599	6.10187	-2.48435	1.448
Asta 23 (61-56)	53	massimi	204.50	-0.12699	0.58674	-11.10012	6.10187	-34.11905	0.46
Asta 23 (61-56)	53	massimi	409.00	-1.48503	1.60411	34.31459	6.10188	-31.23047	0.41
Asta 23 (61-56)	53	minimi	0.00	0.95695	-0.54832	-23.7638	5.68671	-8.51659	0.524
Asta 23 (61-56)	53	minimi	204.50	-2.77615	0.26482	-12.97294	5.68671	-36.82901	-0.599
Asta 23 (61-56)	53	minimi	409.00	-7.24282	-1.33053	29.68493	5.68671	-33.51467	-1.766
Asta 24 (56-66)	54	massimi	0.00	3.36687	0.44584	26.6621	-0.65852	-48.04314	1.046
Asta 24 (56-66)	54	massimi	205.50	3.36687	0.44584	20.1272	-0.65852	-4.56959	0.138
Asta 24 (56-66)	54	massimi	411.00	3.36687	0.44584	13.5923	-0.65852	30.04008	0.714
Asta 24 (56-66)	54	minimi	0.00	-1.64269	-0.34522	24.39885	-1.70182	-52.69155	-0.706
Asta 24 (56-66)	54	minimi	205.50	-1.64269	-0.34522	17.86395	-1.70182	-4.66406	-0.005
Asta 24 (56-66)	54	minimi	411.00	-1.64269	-0.34522	11.32905	-1.70182	25.36885	-0.787
Asta 25 (56-86)	55	massimi	0.00	1.35768	-1.20033	-63.28735	-0.15878	11.98248	-0.647
Asta 25 (56-86)	55	massimi	166.00	0.27319	0.23466	4.42168	-0.15878	-39.28198	1.446
Asta 25 (56-86)	55	massimi	332.00	0.82307	3.85982	68.41837	-0.15877	17.08469	0.552
Asta 25 (56-86)	55	minimi	0.00	-0.84034	-3.41627	-66.6869	-1.41171	4.25701	-1.482
Asta 25 (56-86)	55	minimi	166.00	-0.43726	-0.40612	-0.96975	-1.4117	-40.07232	0.313
Asta 25 (56-86)	55	minimi	332.00	-1.66981	0.06152	64.82289	-1.41169	8.79622	-1.915
Asta 26 (91-61)	56	massimi	0.00	0.6946	3.69932	-10.3013	1.00546	0.56165	1.603
Asta 26 (91-61)	56	massimi	166.00	-0.02675	0.21015	2.18467	1.00546	-12.1672	-0.276
Asta 26 (91-61)	56	massimi	332.00	0.86592	-1.16004	13.71423	1.00546	-1.43527	1.493
Asta 26 (91-61)	56	minimi	0.00	-1.42326	0.11233	-13.9438	-0.54233	-7.91331	-0.468
Asta 26 (91-61)	56	minimi	166.00	-0.63856	-0.44527	-3.67559	-0.54233	-13.6372	-1.562
Asta 26 (91-61)	56	minimi	332.00	-1.47297	-3.46236	9.04641	-0.54232	-10.12145	0.614
Asta 27 (81-66)	57	massimi	0.00	41.80992	1.94664	1.4139	-10.86329	11.14235	2.678
Asta 27 (81-66)	57	massimi	120.50	41.80992	1.94664	-2.418	-10.86329	5.51466	0.383
Asta 27 (81-66)	57	massimi	241.00	41.80992	1.94664	-6.2499	-10.86329	-3.8064	1.066
Asta 27 (81-66)	57	minimi	0.00	35.85446	-0.92419	-2.75991	-12.89147	1.5902	-1.169
Asta 27 (81-66)	57	minimi	120.50	35.85446	-0.92419	-6.59181	-12.89147	0.97852	-0.106
Asta 27	57	minimi	241.00	35.85446	-0.92419	-10.42371	-12.89147	-5.17469	-2.021

(81-66)									
Asta 28 (101-71)	58	massimi	0.00	2.89717	1.16087	17.37855	0.80247	-6.72658	3.479
Asta 28 (101-71)	58	massimi	237.00	2.89717	1.16087	4.08285	0.80247	5.86426	0.73
Asta 28 (101-71)	58	massimi	474.00	2.89717	1.16087	-9.21285	0.80247	-0.62335	-1.266
Asta 28 (101-71)	58	minimi	0.00	1.07533	0.64773	11.96042	0.02909	-19.97607	1.80
Asta 28 (101-71)	58	minimi	237.00	1.07533	0.64773	-1.33528	0.02909	5.45564	0.263
Asta 28 (101-71)	58	minimi	474.00	1.07533	0.64773	-14.63098	0.02909	-13.05582	-2.028
Asta 29 (71-241)	59	massimi	0.00	22.90552	0.01582	21.11791	0.53658	-22.30229	-0.435
Asta 29 (71-241)	59	massimi	315.00	22.90552	0.01582	3.44641	0.53658	9.11377	-0.374
Asta 29 (71-241)	59	massimi	630.00	22.90552	0.01582	-14.22508	0.53658	-8.23953	0.375
Asta 29 (71-241)	59	minimi	0.00	19.38472	-0.24584	18.8043	-0.55635	-29.95201	-1.176
Asta 29 (71-241)	59	minimi	315.00	19.38472	-0.24584	1.1328	-0.55635	8.72167	-0.513
Asta 29 (71-241)	59	minimi	630.00	19.38472	-0.24584	-16.5387	-0.55635	-15.16572	-0.537
Asta 30 (76-81)	60	massimi	0.00	23.49688	0.103	14.22961	-0.67801	-15.34754	0.218
Asta 30 (76-81)	60	massimi	307.50	23.49688	0.103	4.45111	-0.67801	7.38283	0.036
Asta 30 (76-81)	60	massimi	615.00	23.49688	0.103	-5.32739	-0.67801	5.63501	0.095
Asta 30 (76-81)	60	minimi	0.00	14.85693	-0.02047	12.28094	-0.93721	-21.74251	-0.034
Asta 30 (76-81)	60	minimi	307.50	14.85693	-0.02047	2.50244	-0.93721	6.9782	-0.106
Asta 30 (76-81)	60	minimi	615.00	14.85693	-0.02047	-7.27606	-0.93721	0.03931	-0.419
Asta 31 (76-106)	61	massimi	0.00	6.87466	0.2241	13.12867	1.03661	1.41067	0.338
Asta 31 (76-106)	61	massimi	237.00	6.87466	0.2241	-0.16703	1.03661	5.81944	0.272
Asta 31 (76-106)	61	massimi	474.00	6.87466	0.2241	-13.46273	1.03661	-10.33354	0.748
Asta 31 (76-106)	61	minimi	0.00	6.34562	-0.22305	8.36747	0.24381	-9.54184	-0.362
Asta 31 (76-106)	61	minimi	237.00	6.34562	-0.22305	-4.92823	0.24381	5.48444	-0.299
Asta 31 (76-106)	61	minimi	474.00	6.34562	-0.22305	-18.22393	0.24381	-21.94914	-0.778
Asta 32 (241-76)	62	massimi	0.00	20.82161	0.09524	17.63804	0.34167	-9.98626	0.524
Asta 32 (241-76)	62	massimi	315.00	20.82161	0.09524	-0.03346	0.34167	9.98161	0.259
Asta 32 (241-76)	62	massimi	630.00	20.82161	0.09524	-17.70496	0.34167	-17.95645	0.867
Asta 32 (241-76)	62	minimi	0.00	17.3923	-0.21358	15.04654	-1.06924	-17.74566	-0.48
Asta 32 (241-76)	62	minimi	315.00	17.3923	-0.21358	-2.62496	-1.06924	9.57768	0.158
Asta 32 (241-76)	62	minimi	630.00	17.3923	-0.21358	-20.29646	-1.06924	-26.5235	-0.077
Asta 33 (96-81)	63	massimi	0.00	44.31414	2.99436	14.05233	25.84986	4.62646	1.363
Asta 33 (96-81)	63	massimi	45.50	44.31414	2.99436	12.60543	25.84986	10.58638	0.601
Asta 33 (96-81)	63	massimi	91.00	44.31414	2.99436	11.15853	25.84986	15.89849	3.538
Asta 33 (96-81)	63	minimi	0.00	33.96014	-6.66766	9.48395	21.48263	-1.17641	-2.623
Asta 33	63	minimi	45.50	33.96014	-6.66766	8.03705	21.48263	2.91433	-0.189

(96-81)									
Asta 33 (96-81)	63	minimi	91.00	33.96014	-6.66766	6.59015	21.48263	6.33622	-1.454
Asta 34 (86-91)	64	massimi	0.00	1.67726	0.75552	-25.82184	-4.6681	-31.85413	0.275
Asta 34 (86-91)	64	massimi	204.50	2.02034	0.11616	12.77089	-4.66809	-32.25021	0.63
Asta 34 (86-91)	64	massimi	409.00	2.50076	1.06194	21.28607	-4.66809	-3.07518	1.639
Asta 34 (86-91)	64	minimi	0.00	-7.93813	-2.06352	-31.67501	-5.18297	-34.89057	-1.982
Asta 34 (86-91)	64	minimi	204.50	-3.2836	-0.75799	11.0157	-5.18297	-35.65822	-0.422
Asta 34 (86-91)	64	minimi	409.00	1.21887	-1.51039	16.22486	-5.18297	-8.9476	-0.374
Asta 35 (86-96)	65	massimi	0.00	7.30275	0.53141	27.26168	4.26992	-46.45113	0.964
Asta 35 (86-96)	65	massimi	205.50	7.30275	0.53141	20.72678	4.26992	-2.17788	0.07
Asta 35 (86-96)	65	massimi	411.00	7.30275	0.53141	14.19188	4.26992	33.6342	0.92
Asta 35 (86-96)	65	minimi	0.00	-3.32219	-0.46513	24.62482	3.84312	-51.5547	-0.995
Asta 35 (86-96)	65	minimi	205.50	-3.32219	-0.46513	18.08992	3.84312	-2.63041	-0.237
Asta 35 (86-96)	65	minimi	411.00	-3.32219	-0.46513	11.55502	3.84312	27.89661	-1.224
Asta 36 (111-96)	66	massimi	0.00	43.91068	0.64642	13.14745	-6.3735	-8.42663	0.83
Asta 36 (111-96)	66	massimi	191.50	43.91068	0.64642	7.05775	-6.3735	2.97957	0.042
Asta 36 (111-96)	66	massimi	383.00	43.91068	0.64642	0.96805	-6.3735	8.84269	0.69
Asta 36 (111-96)	66	minimi	0.00	34.29731	-0.33916	9.00074	-7.82482	-18.19073	-0.609
Asta 36 (111-96)	66	minimi	191.50	34.29731	-0.33916	2.91104	-7.82482	1.15507	-0.409
Asta 36 (111-96)	66	minimi	383.00	34.29731	-0.33916	-3.17866	-7.82482	2.7204	-1.646
Asta 37 (116-101)	67	massimi	0.00	38.8238	-0.09634	-10.02666	0.85334	32.97037	-0.175
Asta 37 (116-101)	67	massimi	173.00	38.8238	-0.09634	-19.73196	0.85334	-0.70054	0.502
Asta 37 (116-101)	67	massimi	346.00	38.8238	-0.09634	-29.43726	0.85334	-43.23298	3.325
Asta 37 (116-101)	67	minimi	0.00	32.33402	-1.63522	-15.23207	0.03045	25.03933	-2.335
Asta 37 (116-101)	67	minimi	173.00	32.33402	-1.63522	-24.93737	0.03045	-1.77753	-0.017
Asta 37 (116-101)	67	minimi	346.00	32.33402	-1.63522	-34.64267	0.03045	-53.3132	0.156
Asta 38 (106-111)	68	massimi	0.00	16.56872	0.08996	10.66726	-1.20066	-4.14254	0.355
Asta 38 (106-111)	68	massimi	307.50	16.56872	0.08996	0.88876	-1.20066	5.62254	0.087
Asta 38 (106-111)	68	massimi	615.00	16.56872	0.08996	-8.88974	-1.20066	-6.76445	0.163
Asta 38 (106-111)	68	minimi	0.00	15.26535	-0.0398	8.06404	-1.55824	-12.23035	-0.10
Asta 38	68	minimi	307.50	15.26535	-0.0398	-1.71446	-1.55824	5.53442	0.014

(106-111)									
Asta 38 (106-111)	68	minimi	615.00	15.26535	-0.0398	-11.49296	-1.55824	-14.6865	-0.216
Asta 39 (121-106)	69	massimi	0.00	31.12444	0.67985	-6.37533	0.20601	16.46136	0.523
Asta 39 (121-106)	69	massimi	127.00	31.12444	0.67985	-13.50003	0.20601	-2.02654	0.283
Asta 39 (121-106)	69	massimi	254.00	31.12444	0.67985	-20.62473	0.20601	-23.70183	2.569
Asta 39 (121-106)	69	minimi	0.00	29.04295	-1.81006	-12.03749	-0.57918	10.58425	-2.031
Asta 39 (121-106)	69	minimi	127.00	29.04295	-1.81006	-19.16219	-0.57918	-3.36051	-0.356
Asta 39 (121-106)	69	minimi	254.00	29.04295	-1.81006	-26.28689	-0.57918	-32.2146	-1.207
Asta 40 (111-141)	70	massimi	0.00	31.93082	-0.03814	0.40488	1.781	19.63866	-0.373
Asta 40 (111-141)	70	massimi	165.00	31.93082	-0.03814	-4.84212	1.781	7.86376	-0.203
Asta 40 (111-141)	70	massimi	330.00	31.93082	-0.03814	-10.08912	1.781	-5.61544	0.979
Asta 40 (111-141)	70	minimi	0.00	17.3951	-0.71818	-4.52034	1.40157	10.35922	-1.391
Asta 40 (111-141)	70	minimi	165.00	17.3951	-0.71818	-9.76734	1.40157	6.68605	-0.313
Asta 40 (111-141)	70	minimi	330.00	17.3951	-0.71818	-15.01434	1.40157	-12.59792	-0.247
Asta 41 (116-121)	71	massimi	0.00	59.04205	0.43948	18.39541	-0.03956	-7.31278	1.946
Asta 41 (116-121)	71	massimi	330.00	59.04205	0.43948	-0.11759	-0.03956	14.31434	0.77
Asta 41 (116-121)	71	massimi	660.00	59.04205	0.43948	-18.63059	-0.03956	-16.71554	0.048
Asta 41 (116-121)	71	minimi	0.00	54.398	0.16666	15.75613	-0.97874	-15.94043	0.582
Asta 41 (116-121)	71	minimi	330.00	54.398	0.16666	-2.75687	-0.97874	14.03961	-0.242
Asta 41 (116-121)	71	minimi	660.00	54.398	0.16666	-21.26987	-0.97874	-25.50914	-1.52
Asta 42 (126-116)	72	massimi	0.00	10.32709	-0.04641	11.53978	2.67484	-4.67787	-0.273
Asta 42 (126-116)	72	massimi	330.00	10.32709	-0.04641	1.04578	2.67484	6.17556	-0.046
Asta 42 (126-116)	72	massimi	660.00	10.32709	-0.04641	-9.44823	2.67484	-7.7808	0.275
Asta 42 (126-116)	72	minimi	0.00	9.43098	-0.10327	8.53491	2.02787	-14.68294	-0.416

Asta 42 (126-116)	72	minimi	330.00	9.43098	-0.10327	-1.95909	2.02787	6.07991	-0.148
Asta 42 (126-116)	72	minimi	660.00	9.43098	-0.10327	-12.45309	2.02787	-17.60787	0.025
Asta 43 (121-136)	73	massimi	0.00	9.63389	-0.79355	11.40256	-0.20427	-1.00668	-1.143
Asta 43 (121-136)	73	massimi	165.00	9.63389	-0.79355	6.15556	-0.20427	2.85196	0.169
Asta 43 (121-136)	73	massimi	330.00	9.63389	-0.79355	0.90856	-0.20427	7.79896	1.688
Asta 43 (121-136)	73	minimi	0.00	7.25492	-1.02659	4.96174	-0.828	-12.51448	-1.70
Asta 43 (121-136)	73	minimi	165.00	7.25492	-1.02659	-0.28526	-0.828	1.97043	-0.01
Asta 43 (121-136)	73	minimi	330.00	7.25492	-1.02659	-5.53226	-0.828	-1.94813	1.475
Asta 44 (131-126)	74	massimi	0.00	14.55756	-0.04005	11.59488	-0.20443	-5.94146	-0.092
Asta 44 (131-126)	74	massimi	330.00	14.55756	-0.04005	1.10088	-0.20443	6.87165	0.042
Asta 44 (131-126)	74	massimi	660.00	14.55756	-0.04005	-9.39312	-0.20443	-6.81068	0.339
Asta 44 (131-126)	74	minimi	0.00	10.331	-0.0973	9.00724	-0.72069	-14.07648	-0.304
Asta 44 (131-126)	74	minimi	330.00	10.331	-0.0973	-1.48676	-0.72069	6.46722	0.015
Asta 44 (131-126)	74	minimi	660.00	10.331	-0.0973	-11.98076	-0.72069	-15.75407	0.171
Asta 45 (136-131)	75	massimi	0.00	8.3897	0.58801	2.54324	1.35383	11.11863	0.915
Asta 45 (136-131)	75	massimi	165.00	8.3897	0.58801	-2.70376	1.35383	2.20226	0.004
Asta 45 (136-131)	75	massimi	330.00	8.3897	0.58801	-7.95076	1.35383	-6.59064	-0.378
Asta 45 (136-131)	75	minimi	0.00	7.2924	0.23163	-3.35214	1.08044	2.33109	0.386
Asta 45 (136-131)	75	minimi	165.00	7.2924	0.23163	-8.59914	1.08044	1.25522	-0.056
Asta 45 (136-131)	75	minimi	330.00	7.2924	0.23163	-13.84614	1.08044	-17.25921	-1.026
Asta 46 (156-131)	76	massimi	0.00	12.2733	0.13395	10.71257	-0.18564	-4.10583	0.463
Asta 46 (156-131)	76	massimi	244.50	12.2733	0.13395	2.93747	-0.18564	7.75505	0.234
Asta 46 (156-131)	76	massimi	489.00	12.2733	0.13395	-4.83763	-0.18564	5.4317	0.451
Asta 46 (156-131)	76	minimi	0.00	-0.07402	-0.10297	8.16482	-0.60807	-8.93278	-0.106

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Asta 46 (156- 131)	76	minimi	244.50	-0.07402	-0.10297	0.38972	-0.60807	6.35144	0.049
Asta 46 (156- 131)	76	minimi	489.00	-0.07402	-0.10297	-7.38538	-0.60807	-2.20033	-0.245
Asta 47 (136- 151)	77	massimi	0.00	8.46469	0.09622	8.21791	0.06038	2.33236	0.158
Asta 47 (136- 151)	77	massimi	244.50	8.46469	0.09622	0.4428	0.06038	4.79387	-0.046
Asta 47 (136- 151)	77	massimi	489.00	8.46469	0.09622	-7.3323	0.06038	-4.19422	0.309
Asta 47 (136- 151)	77	minimi	0.00	7.49473	-0.15139	4.89427	-0.91072	-6.35955	-0.431
Asta 47 (136- 151)	77	minimi	244.50	7.49473	-0.15139	-2.88084	-0.91072	4.22808	-0.093
Asta 47 (136- 151)	77	minimi	489.00	7.49473	-0.15139	-10.65594	-0.91072	-11.75494	-0.313
Asta 48 (146- 141)	78	massimi	0.00	7.54094	3.27542	-19.45865	-1.52624	-6.87373	3.998
Asta 48 (146- 141)	78	massimi	165.00	9.04515	0.66651	3.74156	-1.52624	-46.24045	2.517
Asta 48 (146- 141)	78	massimi	330.00	10.626	0.89005	171.84338	-1.52624	66.19112	3.947
Asta 48 (146- 141)	78	minimi	0.00	5.1409	-3.49787	-30.91609	-5.67559	-21.98355	-3.65
Asta 48 (146- 141)	78	minimi	165.00	-2.81934	-1.65642	-7.64193	-5.6756	-54.89326	-1.686
Asta 48 (146- 141)	78	minimi	330.00	-10.80905	-6.23075	150.55815	-5.6756	46.52373	1.654
Asta 49 (151- 141)	79	massimi	0.00	4.82628	0.74824	0.0002	-3.9168	14.45686	1.292
Asta 49 (151- 141)	79	massimi	190.00	4.82628	0.74824	-6.0418	-3.9168	1.22775	-0.022
Asta 49 (151- 141)	79	massimi	380.00	4.82628	0.74824	-12.0838	-3.9168	-15.99902	-0.813
Asta 49 (151- 141)	79	minimi	0.00	0.15511	0.39714	-4.12505	-5.77862	6.95924	0.631
Asta 49 (151- 141)	79	minimi	190.00	0.15511	0.39714	-10.16705	-5.77862	0.87132	-0.23
Asta 49 (151- 141)	79	minimi	380.00	0.15511	0.39714	-16.20905	-5.77862	-24.17853	-1.616
Asta 50 (156- 146)	80	massimi	0.00	9.30405	2.32582	-108.75072	-2.53783	21.24068	0.102
Asta 50 (156- 146)	80	massimi	190.00	5.10704	0.84408	20.2755	-2.53784	-42.09171	0.102
Asta 50 (156- 146)	80	massimi	380.00	2.85841	2.7698	30.38814	-2.53785	10.63717	4.409
Asta 50	80	minimi	0.00	-4.74516	-1.23434	-119.04344	-7.71966	13.02357	-0.706

(156-146)									
Asta 50 (156-146)	80	minimi	190.00	-1.89228	-0.57984	13.56198	-7.71966	-49.63924	-2.549
Asta 50 (156-146)	80	minimi	380.00	-0.95548	-7.49652	17.34314	-7.71966	-2.11643	-3.382
Asta 51 (12-2)	81	massimi	0.00	-1.48665	-0.5079	22.86565	-0.98909	9.14123	-1.003
Asta 51 (12-2)	81	massimi	237.00	-1.48665	-0.5079	0.61525	-0.98909	10.75317	0.201
Asta 51 (12-2)	81	massimi	474.00	-1.48665	-0.5079	-21.63514	-0.98909	-14.15613	1.405
Asta 51 (12-2)	81	minimi	0.00	-1.48665	-0.5079	11.06561	-1.71909	-17.07253	-1.003
Asta 51 (12-2)	81	minimi	237.00	-1.48665	-0.5079	-11.18479	-1.71909	8.99918	0.201
Asta 51 (12-2)	81	minimi	474.00	-1.48665	-0.5079	-33.43519	-1.71909	-43.87477	1.405
Asta 52 (2-222)	82	massimi	0.00	3.43626	0.42295	72.27084	0.07014	-38.01398	1.378
Asta 52 (2-222)	82	massimi	315.00	3.43626	0.42295	9.94494	0.07014	50.17217	0.046
Asta 52 (2-222)	82	massimi	630.00	3.43626	0.42295	-52.38096	0.07014	-40.24925	-1.287
Asta 52 (2-222)	82	minimi	0.00	3.43626	0.42295	59.15649	-1.17724	-103.05757	1.378
Asta 52 (2-222)	82	minimi	315.00	3.43626	0.42295	-3.16941	-1.17724	26.42581	0.046
Asta 52 (2-222)	82	minimi	630.00	3.43626	0.42295	-65.49531	-1.17724	-58.13642	-1.287
Asta 53 (7-17)	83	massimi	0.00	-2.3556	0.32527	39.85804	-0.3004	-34.85955	0.589
Asta 53 (7-17)	83	massimi	237.00	-2.3556	0.32527	17.60764	-0.3004	9.90855	-0.182
Asta 53 (7-17)	83	massimi	474.00	-2.3556	0.32527	-4.64276	-0.3004	23.75548	-0.953
Asta 53 (7-17)	83	minimi	0.00	-2.3556	0.32527	30.01022	-1.76982	-59.7053	0.589
Asta 53 (7-17)	83	minimi	237.00	-2.3556	0.32527	7.75982	-1.76982	8.38092	-0.182
Asta 53 (7-17)	83	minimi	474.00	-2.3556	0.32527	-14.49057	-1.76982	1.92142	-0.953
Asta 54 (222-7)	84	massimi	0.00	5.05401	-0.27683	63.36912	1.92473	-38.03483	-1.298
Asta 54 (222-7)	84	massimi	315.00	5.05401	-0.27683	1.04322	1.92473	46.16276	-0.426
Asta 54 (222-7)	84	massimi	630.00	5.05401	-0.27683	-61.28268	1.92473	-48.72234	0.446
Asta 54 (222-7)	84	minimi	0.00	5.05401	-0.27683	50.3728	-0.05741	-55.32362	-1.298
Asta 54 (222-7)	84	minimi	315.00	5.05401	-0.27683	-11.9531	-0.05741	22.43925	-0.426
Asta 54 (222-7)	84	minimi	630.00	5.05401	-0.27683	-74.279	-0.05741	-113.36835	0.446
Asta 55 (27-12)	85	massimi	0.00	-2.76227	-0.26414	28.6394	-0.12407	-4.15466	-0.732
Asta 55 (27-12)	85	massimi	237.00	-2.76227	-0.26414	6.389	-0.12407	9.73933	-0.106
Asta 55 (27-12)	85	massimi	474.00	-2.76227	-0.26414	-15.8614	-0.12407	-1.50494	0.52
Asta 55 (27-12)	85	minimi	0.00	-2.76227	-0.26414	16.94431	-0.89695	-31.78884	-0.732
Asta 55 (27-12)	85	minimi	237.00	-2.76227	-0.26414	-5.30609	-0.89695	9.61711	-0.106
Asta 55 (27-12)	85	minimi	474.00	-2.76227	-0.26414	-27.55649	-0.89695	-29.30555	0.52
Asta 56 (12-227)	86	massimi	0.00	2.85144	0.41216	122.79583	0.82447	-107.66464	1.668

Asta 56 (12-227)	86	massimi	315.00	2.85144	0.41216	15.24854	0.82447	75.88896	0.369
Asta 56 (12-227)	86	massimi	630.00	2.85144	0.41216	-92.29876	0.82447	-64.95578	-0.929
Asta 56 (12-227)	86	minimi	0.00	2.85144	0.41216	112.04017	-0.93566	-161.05897	1.668
Asta 56 (12-227)	86	minimi	315.00	2.85144	0.41216	4.49287	-0.93566	56.34685	0.369
Asta 56 (12-227)	86	minimi	630.00	2.85144	0.41216	-103.05443	-0.93566	-79.39697	-0.929
Asta 57 (22-17)	87	massimi	0.00	1.9077	-0.68787	82.30014	4.64459	-17.26708	-2.106
Asta 57 (22-17)	87	massimi	307.50	1.9077	-0.68787	0.18319	4.64459	80.0526	0.009
Asta 57 (22-17)	87	massimi	615.00	1.9077	-0.68787	-81.93377	4.64459	-45.6394	2.124
Asta 57 (22-17)	87	minimi	0.00	1.9077	-0.68787	64.53437	2.2903	-46.76683	-2.106
Asta 57 (22-17)	87	minimi	307.50	1.9077	-0.68787	-17.58258	2.2903	54.92	0.009
Asta 57 (22-17)	87	minimi	615.00	1.9077	-0.68787	-99.69953	2.2903	-125.40076	2.124
Asta 58 (17-32)	88	massimi	0.00	-5.01159	0.39496	29.87734	-0.93483	-12.03522	1.151
Asta 58 (17-32)	88	massimi	237.00	-5.01159	0.39496	7.62694	-0.93483	10.72229	0.215
Asta 58 (17-32)	88	massimi	474.00	-5.01159	0.39496	-14.62345	-0.93483	2.31523	-0.721
Asta 58 (17-32)	88	minimi	0.00	-5.01159	0.39496	20.6852	-1.44475	-33.83666	1.151
Asta 58 (17-32)	88	minimi	237.00	-5.01159	0.39496	-1.56519	-1.44475	10.50562	0.215
Asta 58 (17-32)	88	minimi	474.00	-5.01159	0.39496	-23.81559	-1.44475	-19.45442	-0.721
Asta 59 (227-17)	89	massimi	0.00	4.55524	-0.04212	98.2782	2.1578	-61.51221	-0.861
Asta 59 (227-17)	89	massimi	315.00	4.55524	-0.04212	-9.2691	2.1578	63.47577	-0.729
Asta 59 (227-17)	89	massimi	630.00	4.55524	-0.04212	-116.8164	2.1578	-135.33957	-0.596
Asta 59 (227-17)	89	minimi	0.00	4.55524	-0.04212	88.48317	-0.17764	-76.95705	-0.861
Asta 59 (227-17)	89	minimi	315.00	4.55524	-0.04212	-19.06413	-0.17764	47.57929	-0.729
Asta 59 (227-17)	89	minimi	630.00	4.55524	-0.04212	-126.61143	-0.17764	-181.62904	-0.596
Asta 60 (37-22)	90	massimi	0.00	-9.37308	0.63101	15.85207	2.38779	33.43971	0.932
Asta 60 (37-22)	90	massimi	237.00	-9.37308	0.63101	-13.67883	2.38779	27.0835	-0.563
Asta 60 (37-22)	90	massimi	474.00	-9.37308	0.63101	-43.20973	2.38779	-40.43241	-2.059
Asta 60 (37-22)	90	minimi	0.00	-9.37308	0.63101	8.38635	1.23224	24.05962	0.932
Asta 60 (37-22)	90	minimi	237.00	-9.37308	0.63101	-21.14455	1.23224	17.87264	-0.563
Asta 60 (37-22)	90	minimi	474.00	-9.37308	0.63101	-50.67545	1.23224	-67.13109	-2.059
Asta 61 (42-27)	91	massimi	0.00	-3.32623	0.06196	28.60031	0.35849	-4.78947	-0.196
Asta 61 (42-27)	91	massimi	237.00	-3.32623	0.06196	6.34991	0.35849	8.87241	-0.343
Asta 61 (42-27)	91	massimi	474.00	-3.32623	0.06196	-15.90049	0.35849	-2.45791	-0.49
Asta 61 (42-27)	91	minimi	0.00	-3.32623	0.06196	16.88054	-0.42361	-32.55648	-0.196
Asta 61 (42-27)	91	minimi	237.00	-3.32623	0.06196	-5.36986	-0.42361	8.83781	-0.343
Asta 61 (42-27)	91	minimi	474.00	-3.32623	0.06196	-27.62025	-0.42361	-30.24259	-0.49

Asta 62 (27-232)	92	massimi	0.00	3.51716	0.13461	118.4548	0.8914	-101.56987	0.59
Asta 62 (27-232)	92	massimi	315.00	3.51716	0.13461	10.9075	0.8914	75.41542	0.166
Asta 62 (27-232)	92	massimi	630.00	3.51716	0.13461	-96.6398	0.8914	-75.67522	-0.258
Asta 62 (27-232)	92	minimi	0.00	3.51716	0.13461	109.95612	-0.91268	-144.39957	0.59
Asta 62 (27-232)	92	minimi	315.00	3.51716	0.13461	2.40882	-0.91268	59.33556	0.166
Asta 62 (27-232)	92	minimi	630.00	3.51716	0.13461	-105.13848	-0.91268	-86.40138	-0.258
Asta 63 (37-32)	93	massimi	0.00	4.30376	-1.07571	97.1055	3.92542	-40.4531	-3.378
Asta 63 (37-32)	93	massimi	307.50	4.30376	-1.07571	-7.88115	3.92542	77.70413	-0.07
Asta 63 (37-32)	93	massimi	615.00	4.30376	-1.07571	-112.8678	3.92542	-107.9929	3.238
Asta 63 (37-32)	93	minimi	0.00	4.30376	-1.07571	88.30939	1.47786	-59.58358	-3.378
Asta 63 (37-32)	93	minimi	307.50	4.30376	-1.07571	-16.67726	1.47786	69.57601	-0.07
Asta 63 (37-32)	93	minimi	615.00	4.30376	-1.07571	-121.66391	1.47786	-143.07802	3.238
Asta 64 (32-47)	94	massimi	0.00	-6.13201	0.78817	27.64781	0.1331	-7.48009	2.063
Asta 64 (32-47)	94	massimi	237.00	-6.13201	0.78817	5.39741	0.1331	9.50117	0.195
Asta 64 (32-47)	94	massimi	474.00	-6.13201	0.78817	-16.85299	0.1331	-4.12154	-1.673
Asta 64 (32-47)	94	minimi	0.00	-6.13201	0.78817	18.28996	-0.55216	-29.70529	2.063
Asta 64 (32-47)	94	minimi	237.00	-6.13201	0.78817	-3.96044	-0.55216	9.45252	0.195
Asta 64 (32-47)	94	minimi	474.00	-6.13201	0.78817	-26.21084	-0.55216	-26.25258	-1.673
Asta 65 (232-32)	95	massimi	0.00	6.18257	0.04426	98.60168	1.41769	-69.68231	-0.262
Asta 65 (232-32)	95	massimi	315.00	6.18257	0.04426	-8.94562	1.41769	58.09741	-0.401
Asta 65 (232-32)	95	massimi	630.00	6.18257	0.04426	-116.49292	1.41769	-139.51559	-0.541
Asta 65 (232-32)	95	minimi	0.00	6.18257	0.04426	89.81559	-0.94586	-83.17498	-0.262
Asta 65 (232-32)	95	minimi	315.00	6.18257	0.04426	-17.73171	-0.94586	43.78568	-0.401
Asta 65 (232-32)	95	minimi	630.00	6.18257	0.04426	-125.27901	-0.94586	-181.40891	-0.541
Asta 66 (52-37)	96	massimi	0.00	-20.12648	0.67198	23.45467	-1.71421	44.19305	0.708
Asta 66 (52-37)	96	massimi	237.00	-20.12648	0.67198	-6.07623	-1.71421	42.32153	-0.885
Asta 66 (52-37)	96	massimi	474.00	-20.12648	0.67198	-35.60713	-1.71421	-7.12429	-2.477
Asta 66 (52-37)	96	minimi	0.00	-20.12648	0.67198	13.16044	-2.52089	21.53055	0.708
Asta 66 (52-37)	96	minimi	237.00	-20.12648	0.67198	-16.37046	-2.52089	40.19165	-0.885
Asta 66 (52-37)	96	minimi	474.00	-20.12648	0.67198	-45.90136	-2.52089	-33.54941	-2.477
Asta 67 (72-42)	97	massimi	0.00	-3.70682	0.30576	28.49616	0.80217	-4.04492	0.539
Asta 67 (72-42)	97	massimi	237.00	-3.70682	0.30576	6.24576	0.80217	9.29422	-0.185
Asta 67 (72-42)	97	massimi	474.00	-3.70682	0.30576	-16.00464	0.80217	-2.32178	-0.91
Asta 67 (72-42)	97	minimi	0.00	-3.70682	0.30576	16.73128	0.02539	-31.92675	0.539
Asta 67 (72-42)	97	minimi	237.00	-3.70682	0.30576	-5.51912	0.02539	9.1897	-0.185

Asta 67 (72-42)	97	minimi	474.00	-3.70682	0.30576	-27.76952	0.02539	-30.20561	-0.91
Asta 68 (42-237)	98	massimi	0.00	2.24608	-0.11257	118.16253	0.81094	-102.12836	-0.716
Asta 68 (42-237)	98	massimi	315.00	2.24608	-0.11257	10.61523	0.81094	74.70487	-0.362
Asta 68 (42-237)	98	massimi	630.00	2.24608	-0.11257	-96.93207	0.81094	-75.84792	-0.007
Asta 68 (42-237)	98	minimi	0.00	2.24608	-0.11257	109.8391	-0.98755	-142.82549	-0.716
Asta 68 (42-237)	98	minimi	315.00	2.24608	-0.11257	2.2918	-0.98755	59.77239	-0.362
Asta 68 (42-237)	98	minimi	630.00	2.24608	-0.11257	-105.2555	-0.98755	-87.79168	-0.007
Asta 69 (52-47)	99	massimi	0.00	0.20892	-1.8055	92.91828	1.66857	-29.96925	-5.908
Asta 69 (52-47)	99	massimi	307.50	0.20892	-1.8055	-12.06837	1.66857	74.58504	-0.356
Asta 69 (52-47)	99	massimi	615.00	0.20892	-1.8055	-117.05502	1.66857	-123.94228	5.196
Asta 69 (52-47)	99	minimi	0.00	0.20892	-1.8055	84.17022	-0.94089	-49.72187	-5.908
Asta 69 (52-47)	99	minimi	307.50	0.20892	-1.8055	-20.81643	-0.94089	67.43703	-0.356
Asta 69 (52-47)	99	minimi	615.00	0.20892	-1.8055	-125.80308	-0.94089	-157.99035	5.196
Asta 70 (47-77)	100	massimi	0.00	-6.40348	1.28492	27.31429	0.97487	-6.19868	3.197
Asta 70 (47-77)	100	massimi	237.00	-6.40348	1.28492	5.06389	0.97487	9.93341	0.152
Asta 70 (47-77)	100	massimi	474.00	-6.40348	1.28492	-17.18651	0.97487	-4.48669	-2.893
Asta 70 (47-77)	100	minimi	0.00	-6.40348	1.28492	17.92124	0.29325	-28.48956	3.197
Asta 70 (47-77)	100	minimi	237.00	-6.40348	1.28492	-4.32916	0.29325	9.8531	0.152
Asta 70 (47-77)	100	minimi	474.00	-6.40348	1.28492	-26.57956	0.29325	-26.71894	-2.893
Asta 71 (237-47)	101	massimi	0.00	4.50446	-0.02592	98.62294	1.03083	-70.98379	-0.122
Asta 71 (237-47)	101	massimi	315.00	4.50446	-0.02592	-8.92436	1.03083	56.76597	-0.04
Asta 71 (237-47)	101	massimi	630.00	4.50446	-0.02592	-116.47166	1.03083	-140.75745	0.041
Asta 71 (237-47)	101	minimi	0.00	4.50446	-0.02592	90.19005	-1.34612	-84.5806	-0.122
Asta 71 (237-47)	101	minimi	315.00	4.50446	-0.02592	-17.35725	-1.34612	43.65657	-0.04
Asta 71 (237-47)	101	minimi	630.00	4.50446	-0.02592	-124.90455	-1.34612	-180.38105	0.041
Asta 72 (67-52)	102	massimi	0.00	-15.15476	1.77396	-8.15186	1.84932	56.3184	0.189
Asta 72 (67-52)	102	massimi	116.50	-15.15476	1.77396	-19.32519	1.84932	39.47461	-1.877
Asta 72 (67-52)	102	massimi	233.00	-15.15476	1.77396	-30.49852	1.84932	10.33978	-3.944
Asta 72 (67-52)	102	minimi	0.00	-15.15476	1.77396	-15.41934	1.02173	54.10022	0.189
Asta 72 (67-52)	102	minimi	116.50	-15.15476	1.77396	-26.59267	1.02173	30.46664	-1.877
Asta 72 (67-52)	102	minimi	233.00	-15.15476	1.77396	-37.766	1.02173	-6.90977	-3.944
Asta 73 (82-67)	103	massimi	0.00	-15.15476	1.77396	14.95349	1.84932	64.47721	4.464
Asta 73 (82-67)	103	massimi	120.50	-15.15476	1.77396	3.38838	1.84932	67.08814	2.327
Asta 73 (82-67)	103	massimi	241.00	-15.15476	1.77396	-8.17672	1.84932	56.3184	0.189
Asta 73 (82-67)	103	minimi	0.00	-15.15476	1.77396	7.73572	1.02173	47.00423	4.464

Asta 73 (82-67)	103	minimi	120.50	-15.15476	1.77396	-3.82939	1.02173	57.79784	2.327
Asta 73 (82-67)	103	minimi	241.00	-15.15476	1.77396	-15.39449	1.02173	54.10022	0.189
Asta 74 (102-72)	104	massimi	0.00	-3.96464	0.9582	31.72197	-0.21739	-10.1107	3.082
Asta 74 (102-72)	104	massimi	237.00	-3.96464	0.9582	9.47157	-0.21739	9.8573	0.811
Asta 74 (102-72)	104	massimi	474.00	-3.96464	0.9582	-12.77883	-0.21739	4.61385	-1.46
Asta 74 (102-72)	104	minimi	0.00	-3.96464	0.9582	19.54962	-0.91365	-40.28158	3.082
Asta 74 (102-72)	104	minimi	237.00	-3.96464	0.9582	-2.70078	-0.91365	8.53064	0.811
Asta 74 (102-72)	104	minimi	474.00	-3.96464	0.9582	-24.95118	-0.91365	-22.91259	-1.46
Asta 75 (72-242)	105	massimi	0.00	-1.21731	-0.32634	119.92559	0.81229	-111.55265	-1.688
Asta 75 (72-242)	105	massimi	315.00	-1.21731	-0.32634	12.37829	0.81229	72.19908	-0.66
Asta 75 (72-242)	105	massimi	630.00	-1.21731	-0.32634	-95.16901	0.81229	-72.61688	0.368
Asta 75 (72-242)	105	minimi	0.00	-1.21731	-0.32634	112.10586	-0.97808	-150.61492	-1.688
Asta 75 (72-242)	105	minimi	315.00	-1.21731	-0.32634	4.55856	-0.97808	57.75841	-0.66
Asta 75 (72-242)	105	minimi	630.00	-1.21731	-0.32634	-102.98874	-0.97808	-82.84854	0.368
Asta 76 (82-77)	106	massimi	0.00	-6.82105	-1.83339	93.52094	-2.01136	-30.31206	-5.667
Asta 76 (82-77)	106	massimi	307.50	-6.82105	-1.83339	-11.46571	-2.01136	73.89637	-0.03
Asta 76 (82-77)	106	massimi	615.00	-6.82105	-1.83339	-116.45236	-2.01136	-122.79883	5.608
Asta 76 (82-77)	106	minimi	0.00	-6.82105	-1.83339	84.06568	-4.60896	-52.28547	-5.667
Asta 76 (82-77)	106	minimi	307.50	-6.82105	-1.83339	-20.92097	-4.60896	66.75102	-0.03
Asta 76 (82-77)	106	minimi	615.00	-6.82105	-1.83339	-125.90762	-4.60896	-158.97675	5.608
Asta 77 (77-107)	107	massimi	0.00	-6.48809	0.76391	22.65104	1.77872	5.75171	2.092
Asta 77 (77-107)	107	massimi	237.00	-6.48809	0.76391	0.40064	1.77872	10.54048	0.282
Asta 77 (77-107)	107	massimi	474.00	-6.48809	0.76391	-21.84976	1.77872	-14.88328	-1.529
Asta 77 (77-107)	107	minimi	0.00	-6.48809	0.76391	12.74404	1.03226	-16.78241	2.092
Asta 77 (77-107)	107	minimi	237.00	-6.48809	0.76391	-9.50635	1.03226	9.58173	0.282
Asta 77 (77-107)	107	minimi	474.00	-6.48809	0.76391	-31.75675	1.03226	-39.30851	-1.529
Asta 78 (242-77)	108	massimi	0.00	-1.73217	-0.01131	99.4132	0.53671	-71.82769	0.185
Asta 78 (242-77)	108	massimi	315.00	-1.73217	-0.01131	-8.1341	0.53671	59.9835	0.22
Asta 78 (242-77)	108	massimi	630.00	-1.73217	-0.01131	-115.6814	0.53671	-135.31558	0.256
Asta 78 (242-77)	108	minimi	0.00	-1.73217	-0.01131	91.63285	-1.85009	-84.0924	0.185
Asta 78 (242-77)	108	minimi	315.00	-1.73217	-0.01131	-15.91445	-1.85009	47.11748	0.22
Asta 78 (242-77)	108	minimi	630.00	-1.73217	-0.01131	-123.46175	-1.85009	-172.11035	0.256
Asta 79 (97-82)	109	massimi	0.00	-13.86187	-0.46357	-2.40954	6.31055	81.34121	-1.377
Asta 79 (97-82)	109	massimi	45.50	-13.86187	-0.46357	-6.62884	6.31055	79.26853	-1.166
Asta 79 (97-82)	109	massimi	91.00	-13.86187	-0.46357	-10.84815	6.31055	75.28268	-0.955

Asta 79 (97-82)	109	minimi	0.00	-13.86187	-0.46357	-13.7262	5.34602	66.45934	-1.377
Asta 79 (97-82)	109	minimi	45.50	-13.86187	-0.46357	-17.9455	5.34602	59.27047	-1.166
Asta 79 (97-82)	109	minimi	91.00	-13.86187	-0.46357	-22.1648	5.34602	50.15522	-0.955
Asta 80 (112-97)	110	massimi	0.00	-13.86187	-0.46357	34.63355	6.31055	48.27346	-3.153
Asta 80 (112-97)	110	massimi	191.50	-13.86187	-0.46357	16.11442	6.31055	75.46444	-2.265
Asta 80 (112-97)	110	massimi	383.00	-13.86187	-0.46357	-2.4047	6.31055	81.34121	-1.377
Asta 80 (112-97)	110	minimi	0.00	-13.86187	-0.46357	23.30721	5.34602	19.47047	-3.153
Asta 80 (112-97)	110	minimi	191.50	-13.86187	-0.46357	4.78809	5.34602	67.77193	-2.265
Asta 80 (112-97)	110	minimi	383.00	-13.86187	-0.46357	-13.73104	5.34602	66.45934	-1.377
Asta 81 (102-117)	111	massimi	0.00	-22.67697	-2.54273	126.45803	11.25377	-158.93195	-3.538
Asta 81 (102-117)	111	massimi	173.00	-22.67697	-2.54273	83.4878	11.25377	-4.18837	0.861
Asta 81 (102-117)	111	massimi	346.00	-22.67697	-2.54273	40.51758	11.25377	83.4132	5.26
Asta 81 (102-117)	111	minimi	0.00	-22.67697	-2.54273	110.80985	5.40456	-208.0031	-3.538
Asta 81 (102-117)	111	minimi	173.00	-22.67697	-2.54273	67.83962	5.40456	-26.61175	0.861
Asta 81 (102-117)	111	minimi	346.00	-22.67697	-2.54273	24.8694	5.40456	73.24464	5.26
Asta 82 (112-107)	112	massimi	0.00	-10.60551	-3.31068	88.02496	-7.16862	-34.3793	-11.072
Asta 82 (112-107)	112	massimi	307.50	-10.60551	-3.31068	-2.64449	-7.16862	70.73233	-0.892
Asta 82 (112-107)	112	massimi	615.00	-10.60551	-3.31068	-93.31394	-7.16862	-76.8049	9.289
Asta 82 (112-107)	112	minimi	0.00	-10.60551	-3.31068	76.48054	-10.35098	-60.54219	-11.072
Asta 82 (112-107)	112	minimi	307.50	-10.60551	-3.31068	-14.18891	-10.35098	61.39203	-0.892
Asta 82 (112-107)	112	minimi	615.00	-10.60551	-3.31068	-104.85836	-10.35098	-121.642	9.289
Asta 83 (122-107)	113	massimi	0.00	-19.14659	3.25743	-0.47211	-3.20792	-6.12009	0.695
Asta 83 (122-107)	113	massimi	127.00	-19.14659	3.25743	-43.95038	-3.20792	-41.00805	-3.442
Asta 83 (122-107)	113	massimi	254.00	-19.14659	3.25743	-87.42866	-3.20792	-126.74298	-7.579
Asta 83 (122-107)	113	minimi	0.00	-19.14659	3.25743	-14.05868	-7.53881	-21.32108	0.695
Asta 83 (122-107)	113	minimi	127.00	-19.14659	3.25743	-57.53696	-7.53881	-60.10463	-3.442
Asta 83 (122-107)	113	minimi	254.00	-19.14659	3.25743	-101.01523	-7.53881	-158.47603	-7.579

107)									
Asta 84 (142- 112)	114	massimi	0.00	-20.36716	7.66534	79.50955	8.24547	-85.81829	11.127
Asta 84 (142- 112)	114	massimi	165.00	-20.36716	7.66534	66.15634	8.24547	14.99477	-1.521
Asta 84 (142- 112)	114	massimi	330.00	-20.36716	7.66534	52.80313	8.24547	107.27549	-14.168
Asta 84 (142- 112)	114	minimi	0.00	-20.36716	7.66534	67.72445	5.74258	-111.40528	11.127
Asta 84 (142- 112)	114	minimi	165.00	-20.36716	7.66534	54.37124	5.74258	8.68497	-1.521
Asta 84 (142- 112)	114	minimi	330.00	-20.36716	7.66534	41.01803	5.74258	93.24196	-14.168
Asta 85 (117- 122)	115	massimi	0.00	-37.75519	-2.05592	75.83971	-3.29865	15.86597	-5.154
Asta 85 (117- 122)	115	massimi	330.00	-37.75519	-2.05592	-8.03861	-3.29865	100.98856	1.63
Asta 85 (117- 122)	115	massimi	660.00	-37.75519	-2.05592	-91.91692	-3.29865	-64.79102	8.415
Asta 85 (117- 122)	115	minimi	0.00	-37.75519	-2.05592	66.41748	-3.96513	-11.97929	-5.154
Asta 85 (117- 122)	115	minimi	330.00	-37.75519	-2.05592	-17.46083	-3.96513	95.54842	1.63
Asta 85 (117- 122)	115	minimi	660.00	-37.75519	-2.05592	-101.33914	-3.96513	-99.61855	8.415
Asta 86 (117- 127)	116	massimi	0.00	1.22422	2.79237	107.52833	15.13107	-35.15213	10.602
Asta 86 (117- 127)	116	massimi	330.00	1.22422	2.79237	7.58509	15.13107	123.5573	1.387
Asta 86 (117- 127)	116	massimi	660.00	1.22422	2.79237	-92.35815	15.13107	-18.19626	-7.828
Asta 86 (117- 127)	116	minimi	0.00	1.22422	2.79237	98.06303	13.54757	-68.25873	10.602
Asta 86 (117- 127)	116	minimi	330.00	1.22422	2.79237	-1.8802	13.54757	121.67065	1.387
Asta 86 (117- 127)	116	minimi	660.00	1.22422	2.79237	-101.82344	13.54757	-47.56236	-7.828
Asta 87 (122- 137)	117	massimi	0.00	-8.15789	5.1691	58.01537	-6.49479	-5.58656	8.179
Asta 87 (122- 137)	117	massimi	165.00	-8.15789	5.1691	15.44537	-6.49479	32.59846	-0.35
Asta 87 (122- 137)	117	massimi	330.00	-8.15789	5.1691	-27.12463	-6.49479	19.25154	-8.879
Asta 87 (122- 137)	117	minimi	0.00	-8.15789	5.1691	44.38571	-8.03281	-31.76784	8.179
Asta 87 (122- 137)	117	minimi	165.00	-8.15789	5.1691	1.81571	-8.03281	28.76843	-0.35
Asta 87	117	minimi	330.00	-8.15789	5.1691	-40.75429	-8.03281	0.35564	-8.879

(122-137)									
Asta 88 (127-132)	118	massimi	0.00	-8.95752	-1.80899	45.52547	-0.41225	-1.89852	-7.617
Asta 88 (127-132)	118	massimi	330.00	-8.95752	-1.80899	12.80322	-0.41225	74.59566	-1.647
Asta 88 (127-132)	118	massimi	660.00	-8.95752	-1.80899	-19.91902	-0.41225	58.01239	4.322
Asta 88 (127-132)	118	minimi	0.00	-8.95752	-1.80899	39.34555	-2.11352	-26.96118	-7.617
Asta 88 (127-132)	118	minimi	330.00	-8.95752	-1.80899	6.6233	-2.11352	68.63559	-1.647
Asta 88 (127-132)	118	minimi	660.00	-8.95752	-1.80899	-26.09895	-2.11352	41.34298	4.322
Asta 89 (137-132)	119	massimi	0.00	-4.44201	2.83694	41.01857	10.02057	19.07834	1.38
Asta 89 (137-132)	119	massimi	165.00	-4.44201	2.83694	-6.22369	10.02057	35.00207	-3.301
Asta 89 (137-132)	119	massimi	330.00	-4.44201	2.83694	-53.46594	10.02057	-14.28099	-7.982
Asta 89 (137-132)	119	minimi	0.00	-4.44201	2.83694	30.22025	7.87852	6.22894	1.38
Asta 89 (137-132)	119	minimi	165.00	-4.44201	2.83694	-17.022	7.87852	29.89954	-3.301
Asta 89 (137-132)	119	minimi	330.00	-4.44201	2.83694	-64.26426	7.87852	-37.12252	-7.982
Asta 90 (132-157)	120	massimi	0.00	-5.5447	-1.51066	-11.51744	0.61034	88.56271	-3.993
Asta 90 (132-157)	120	massimi	244.50	-5.5447	-1.51066	-28.4613	0.61034	17.75283	-0.299
Asta 90 (132-157)	120	massimi	489.00	-5.5447	-1.51066	-45.40515	0.61034	-72.72485	3.395
Asta 90 (132-157)	120	minimi	0.00	-5.5447	-1.51066	-21.59408	-2.41099	66.44192	-3.993
Asta 90 (132-157)	120	minimi	244.50	-5.5447	-1.51066	-38.53793	-2.41099	14.8664	-0.299
Asta 90 (132-157)	120	minimi	489.00	-5.5447	-1.51066	-55.48178	-2.41099	-99.89675	3.395
Asta 91 (137-152)	121	massimi	0.00	-2.1444	-2.6649	47.6794	-1.10717	-9.5904	-9.851
Asta 91 (137-152)	121	massimi	244.50	-2.1444	-2.6649	3.518	-1.10717	35.60698	-3.336
Asta 91 (137-152)	121	massimi	489.00	-2.1444	-2.6649	-40.6434	-1.10717	-11.52054	3.18
Asta 91 (137-152)	121	minimi	0.00	-2.1444	-2.6649	40.56604	-4.5836	-28.72371	-9.851
Asta 91 (137-152)	121	minimi	244.50	-2.1444	-2.6649	-3.59536	-4.5836	33.86439	-3.336

Asta 91 (137-152)	121	minimi	489.00	-2.1444	-2.6649	-47.75676	-4.5836	-27.17186	3.18
Asta 92 (142-147)	122	massimi	0.00	-2.68397	-1.22384	12.62597	-2.26282	-7.77484	-4.964
Asta 92 (142-147)	122	massimi	165.00	-2.68397	-1.22384	1.19147	-2.26282	-13.28077	-2.945
Asta 92 (142-147)	122	massimi	330.00	-2.68397	-1.22384	-10.24303	-2.26282	-20.8742	-0.926
Asta 92 (142-147)	122	minimi	0.00	-2.68397	-1.22384	0.00968	-3.90004	-24.84377	-4.964
Asta 92 (142-147)	122	minimi	165.00	-2.68397	-1.22384	-11.42482	-3.90004	-17.35596	-2.945
Asta 92 (142-147)	122	minimi	330.00	-2.68397	-1.22384	-22.85932	-3.90004	-45.51449	-0.926
Asta 93 (152-142)	123	massimi	0.00	4.50416	-0.91587	23.79814	-7.53981	15.12045	2.989
Asta 93 (152-142)	123	massimi	190.00	4.50416	-0.91587	-10.40611	-7.53981	17.70605	4.729
Asta 93 (152-142)	123	massimi	380.00	4.50416	-0.91587	-44.61036	-7.53981	-34.56102	6.469
Asta 93 (152-142)	123	minimi	0.00	4.50416	-0.91587	16.55145	-12.62312	4.98111	2.989
Asta 93 (152-142)	123	minimi	190.00	4.50416	-0.91587	-17.6528	-12.62312	14.07166	4.729
Asta 93 (152-142)	123	minimi	380.00	4.50416	-0.91587	-51.85705	-12.62312	-51.96127	6.469
Asta 94 (157-147)	124	massimi	0.00	1.08676	0.77551	31.57688	-5.73874	-54.29206	3.705
Asta 94 (157-147)	124	massimi	190.00	1.08676	0.77551	18.40988	-5.73874	-15.17507	2.232
Asta 94 (157-147)	124	massimi	380.00	1.08676	0.77551	5.24288	-5.73874	5.15196	0.758
Asta 94 (157-147)	124	minimi	0.00	1.08676	0.77551	25.24787	-11.79159	-70.47769	3.705
Asta 94 (157-147)	124	minimi	190.00	1.08676	0.77551	12.08087	-11.79159	-26.64496	2.232
Asta 94 (157-147)	124	minimi	380.00	1.08676	0.77551	-1.08613	-11.79159	-14.05687	0.758
Asta 95 (2-1)	125	massimi	0.00	-334.16386	30.66452	17.70545	1.00579	-5.39255	46.425
Asta 95 (2-1)	125	massimi	130.00	-340.01386	30.66452	17.70545	1.00579	0.20536	10.792
Asta 95 (2-1)	125	massimi	260.00	-345.86386	30.66452	17.70545	1.00579	22.56886	-1.689
Asta 95 (2-1)	125	minimi	0.00	-365.52877	8.39513	2.75965	-0.47736	-23.49982	20.04
Asta 95 (2-1)	125	minimi	130.00	-371.37877	8.39513	2.75965	-0.47736	-2.4931	4.896
Asta 95 (2-1)	125	minimi	260.00	-377.22877	8.39513	2.75965	-0.47736	1.74803	-33.401
Asta 96 (7-6)	126	massimi	0.00	-353.93376	-10.47388	23.57623	1.98264	-15.96225	-20.436

Asta 96 (7-6)	126	massimi	130.00	-359.78376	-10.47388	23.57623	1.98264	-0.68162	-2.647
Asta 96 (7-6)	126	massimi	260.00	-365.63376	-10.47388	23.57623	1.98264	29.29892	38.315
Asta 96 (7-6)	126	minimi	0.00	-387.3533	-32.74012	10.60993	0.3735	-32.03734	-46.903
Asta 96 (7-6)	126	minimi	130.00	-393.2033	-32.74012	10.60993	0.3735	-2.87596	-8.514
Asta 96 (7-6)	126	minimi	260.00	-399.0533	-32.74012	10.60993	0.3735	11.58551	6.702
Asta 97 (12-11)	127	massimi	0.00	-439.31866	37.79532	15.83207	1.56685	8.9517	67.238
Asta 97 (12-11)	127	massimi	130.00	-445.16866	37.79532	15.83207	1.56685	-0.09076	22.096
Asta 97 (12-11)	127	massimi	260.00	-451.01866	37.79532	15.83207	1.56685	19.93556	-6.655
Asta 97 (12-11)	127	minimi	0.00	-462.51271	20.95997	-7.35968	0.08258	-21.23473	47.716
Asta 97 (12-11)	127	minimi	130.00	-468.36271	20.95997	-7.35968	0.08258	-1.17816	16.476
Asta 97 (12-11)	127	minimi	260.00	-474.21271	20.95997	-7.35968	0.08258	-10.19039	-31.155
Asta 98 (17-16)	128	massimi	0.00	-577.39702	0.50747	24.423	2.51842	-7.68713	4.944
Asta 98 (17-16)	128	massimi	130.00	-583.24702	0.50747	24.423	2.51842	-1.47443	4.322
Asta 98 (17-16)	128	massimi	260.00	-589.09702	0.50747	24.423	2.51842	29.56917	38.523
Asta 98 (17-16)	128	minimi	0.00	-581.55326	-31.40454	4.57918	0.97794	-33.93729	-43.14
Asta 98 (17-16)	128	minimi	130.00	-587.40326	-31.40454	4.57918	0.97794	-2.44716	-2.352
Asta 98 (17-16)	128	minimi	260.00	-593.25326	-31.40454	4.57918	0.97794	4.21207	3.613
Asta 99 (22-21)	129	massimi	0.00	-169.58099	-4.73344	25.4881	0.71209	-23.18323	-6.731
Asta 99 (22-21)	129	massimi	130.00	-172.50599	-4.73344	25.4881	0.71209	-3.4898	-0.577
Asta 99 (22-21)	129	massimi	260.00	-175.43099	-4.73344	25.4881	0.71209	26.77036	15.446
Asta 99 (22-21)	129	minimi	0.00	-191.14447	-15.46168	15.14863	0.27555	-39.49882	-24.754
Asta 99 (22-21)	129	minimi	130.00	-194.06947	-15.46168	15.14863	0.27555	-6.3645	-4.654
Asta 99 (22-21)	129	minimi	260.00	-196.99447	-15.46168	15.14863	0.27555	16.20309	5.576
Asta 100 (27-26)	130	massimi	0.00	-452.5769	33.08799	11.54462	1.23015	15.7626	62.34
Asta 100 (27-26)	130	massimi	130.00	-458.4269	33.08799	11.54462	1.23015	0.43866	22.433
Asta 100 (27-26)	130	massimi	260.00	-464.2769	33.08799	11.54462	1.23015	14.90337	-3.846
Asta 100 (27-26)	130	minimi	0.00	-471.36382	19.49424	-12.22624	-0.22341	-15.11954	46.678
Asta 100 (27-26)	130	minimi	130.00	-477.21382	19.49424	-12.22624	-0.22341	-0.68171	18.228
Asta 100 (27-26)	130	minimi	260.00	-483.06382	19.49424	-12.22624	-0.22341	-16.03252	-23.849
Asta 101 (32-31)	131	massimi	0.00	-650.62553	5.27319	15.55923	1.87581	5.36772	19.076
Asta 101 (32-31)	131	massimi	130.00	-656.47553	5.27319	15.55923	1.87581	-0.26791	12.41
Asta 101 (32-31)	131	massimi	260.00	-662.32553	5.27319	15.55923	1.87581	19.36237	32.894
Asta 101 (32-31)	131	minimi	0.00	-655.7229	-17.29882	-4.56404	0.38485	-21.09812	-12.112
Asta 101 (32-31)	131	minimi	130.00	-661.5729	-17.29882	-4.56404	0.38485	-1.16874	10.188
Asta 101 (32-31)	131	minimi	260.00	-667.4229	-17.29882	-4.56404	0.38485	-6.50527	5.337

Asta 102 (37-36)	132	massimi	0.00	-223.83656	-8.72044	27.92041	0.52111	-18.14146	-14.928
Asta 102 (37-36)	132	massimi	130.00	-226.76156	-8.72044	27.92041	0.52111	-1.87353	-3.592
Asta 102 (37-36)	132	massimi	260.00	-229.68656	-8.72044	27.92041	0.52111	31.99497	15.319
Asta 102 (37-36)	132	minimi	0.00	-241.45223	-16.65965	12.51377	0.0581	-40.59812	-27.996
Asta 102 (37-36)	132	minimi	130.00	-244.37723	-16.65965	12.51377	0.0581	-4.3016	-6.338
Asta 102 (37-36)	132	minimi	260.00	-247.30223	-16.65965	12.51377	0.0581	14.39434	7.745
Asta 103 (42-41)	133	massimi	0.00	-451.52658	33.59953	11.30106	0.2813	16.13838	64.114
Asta 103 (42-41)	133	massimi	130.00	-457.37658	33.59953	11.30106	0.2813	0.41163	23.073
Asta 103 (42-41)	133	massimi	260.00	-463.22658	33.59953	11.30106	0.2813	14.55379	-4.326
Asta 103 (42-41)	133	minimi	0.00	-471.93621	20.1916	-12.52885	-1.18579	-14.8359	48.083
Asta 103 (42-41)	133	minimi	130.00	-477.78621	20.1916	-12.52885	-1.18579	-0.70528	19.196
Asta 103 (42-41)	133	minimi	260.00	-483.63621	20.1916	-12.52885	-1.18579	-16.44357	-23.333
Asta 104 (47-46)	134	massimi	0.00	-662.37829	10.1849	12.23833	1.35519	10.24723	27.94
Asta 104 (47-46)	134	massimi	130.00	-668.22829	10.1849	12.23833	1.35519	0.05893	14.767
Asta 104 (47-46)	134	massimi	260.00	-674.07829	10.1849	12.23833	1.35519	15.3435	26.739
Asta 104 (47-46)	134	minimi	0.00	-665.45049	-10.63296	-8.0529	-0.15493	-16.48267	-0.917
Asta 104 (47-46)	134	minimi	130.00	-671.30049	-10.63296	-8.0529	-0.15493	-0.85331	12.839
Asta 104 (47-46)	134	minimi	260.00	-677.15049	-10.63296	-8.0529	-0.15493	-10.69682	1.449
Asta 105 (52-51)	135	massimi	0.00	-258.24332	-10.63354	17.28974	0.07958	-2.84611	-14.59
Asta 105 (52-51)	135	massimi	130.00	-261.16832	-10.63354	17.28974	0.07958	-1.27329	-0.765
Asta 105 (52-51)	135	massimi	260.00	-264.09332	-10.63354	17.28974	0.07958	18.64985	21.763
Asta 105 (52-51)	135	minimi	0.00	-273.81043	-18.91896	1.20951	-0.37285	-26.30361	-27.426
Asta 105 (52-51)	135	minimi	130.00	-276.73543	-18.91896	1.20951	-0.37285	-3.8274	-2.834
Asta 105 (52-51)	135	minimi	260.00	-279.66043	-18.91896	1.20951	-0.37285	0.29848	13.057
Asta 106 (57-56)	136	massimi	0.00	-66.42937	-6.08033	2.2354	-0.08307	0.19913	-1.915
Asta 106 (57-56)	136	massimi	130.00	-68.46062	-6.08033	2.2354	-0.08307	0.34869	8.87
Asta 106 (57-56)	136	massimi	260.00	-70.49187	-6.08033	2.2354	-0.08307	3.19666	20.549
Asta 106 (57-56)	136	minimi	0.00	-68.35845	-8.9883	-2.09226	-0.34943	-2.66186	-2.844
Asta 106 (57-56)	136	minimi	130.00	-70.3897	-8.9883	-2.09226	-0.34943	-2.62534	5.959
Asta 106 (57-56)	136	minimi	260.00	-72.42095	-8.9883	-2.09226	-0.34943	-5.28722	13.87
Asta 107 (62-61)	137	massimi	0.00	-26.99832	-2.3671	2.5187	0.0665	0.6778	-3.394
Asta 107 (62-61)	137	massimi	130.00	-29.02957	-2.3671	2.5187	0.0665	1.18467	2.03
Asta 107 (62-61)	137	massimi	260.00	-31.06082	-2.3671	2.5187	0.0665	4.39949	8.713
Asta 107 (62-61)	137	minimi	0.00	-29.03711	-5.14307	-1.96892	-0.2017	-2.3391	-4.668
Asta 107 (62-61)	137	minimi	130.00	-31.06836	-5.14307	-1.96892	-0.2017	-2.13125	-0.329

Asta 107 (62-61)	137	minimi	260.00	-33.09961	-5.14307	-1.96892	-0.2017	-4.63136	2.751
Asta 108 (72-71)	138	massimi	0.00	-445.87886	38.2879	9.19774	-0.15563	19.14138	71.149
Asta 108 (72-71)	138	massimi	130.00	-451.72886	38.2879	9.19774	-0.15563	0.72748	23.844
Asta 108 (72-71)	138	massimi	260.00	-457.57886	38.2879	9.19774	-0.15563	12.12388	-9.963
Asta 108 (72-71)	138	minimi	0.00	-466.10656	25.55436	-14.56281	-1.57718	-11.79722	56.453
Asta 108 (72-71)	138	minimi	130.00	-471.95656	25.55436	-14.56281	-1.57718	-0.35789	20.764
Asta 108 (72-71)	138	minimi	260.00	-477.80656	25.55436	-14.56281	-1.57718	-18.72888	-28.424
Asta 109 (77-76)	139	massimi	0.00	-644.45071	14.20814	7.14699	0.90597	17.80618	31.547
Asta 109 (77-76)	139	massimi	130.00	-650.30071	14.20814	7.14699	0.90597	0.85047	13.153
Asta 109 (77-76)	139	massimi	260.00	-656.15071	14.20814	7.14699	0.90597	9.49268	20.649
Asta 109 (77-76)	139	minimi	0.00	-652.01888	-7.83839	-13.2373	-0.62341	-9.09712	0.253
Asta 109 (77-76)	139	minimi	130.00	-657.86888	-7.83839	-13.2373	-0.62341	-0.05882	10.367
Asta 109 (77-76)	139	minimi	260.00	-663.71888	-7.83839	-13.2373	-0.62341	-16.61843	-5.41
Asta 110 (82-81)	140	massimi	0.00	-255.62596	-16.87288	5.58486	0.21559	15.86279	-19.402
Asta 110 (82-81)	140	massimi	130.00	-258.55096	-16.87288	5.58486	0.21559	2.19172	2.558
Asta 110 (82-81)	140	massimi	260.00	-261.47596	-16.87288	5.58486	0.21559	6.8333	36.265
Asta 110 (82-81)	140	minimi	0.00	-272.54112	-27.08893	-10.51636	-0.29771	-7.68741	-34.167
Asta 110 (82-81)	140	minimi	130.00	-275.46612	-27.08893	-10.51636	-0.29771	-0.42729	1.024
Asta 110 (82-81)	140	minimi	260.00	-278.39112	-27.08893	-10.51636	-0.29771	-11.47981	24.467
Asta 111 (87-86)	141	massimi	0.00	-64.19456	-5.70664	3.19864	-0.05544	2.68047	-1.614
Asta 111 (87-86)	141	massimi	130.00	-66.22581	-5.70664	3.19864	-0.05544	4.05585	8.646
Asta 111 (87-86)	141	massimi	260.00	-68.25706	-5.70664	3.19864	-0.05544	8.16787	19.626
Asta 111 (87-86)	141	minimi	0.00	-66.53205	-8.45612	-1.11017	-0.31953	-0.19368	-2.378
Asta 111 (87-86)	141	minimi	130.00	-68.5633	-8.45612	-1.11017	-0.31953	1.14594	5.774
Asta 111 (87-86)	141	minimi	260.00	-70.59455	-8.45612	-1.11017	-0.31953	-0.25107	13.205
Asta 112 (92-91)	142	massimi	0.00	-25.4283	-2.45506	2.37054	0.06727	2.38641	-3.442
Asta 112 (92-91)	142	massimi	130.00	-27.45955	-2.45506	2.37054	0.06727	2.6921	2.03
Asta 112 (92-91)	142	massimi	260.00	-29.4908	-2.45506	2.37054	0.06727	5.67243	8.627
Asta 112 (92-91)	142	minimi	0.00	-28.20274	-5.07622	-2.09033	-0.19825	-0.61554	-4.58
Asta 112 (92-91)	142	minimi	130.00	-30.23399	-5.07622	-2.09033	-0.19825	-0.55696	-0.261
Asta 112 (92-91)	142	minimi	260.00	-32.26524	-5.07622	-2.09033	-0.19825	-3.17302	2.933
Asta 113 (102-101)	143	massimi	0.00	-386.31013	64.886	1.39347	2.16509	18.78592	116.586
Asta 113 (102-101)	143	massimi	130.00	-392.16013	64.886	1.39347	2.16509	0.51594	34.262
Asta 113 (102-101)	143	massimi	260.00	-398.01013	64.886	1.39347	2.16509	1.58695	-31.356

101)									
Asta 113 (102- 101)	143	minimi	0.00	-415.70767	49.76888	-15.03979	0.49246	-2.06146	98.012
Asta 113 (102- 101)	143	minimi	130.00	-421.55767	49.76888	-15.03979	0.49246	-1.5317	31.285
Asta 113 (102- 101)	143	minimi	260.00	-427.40767	49.76888	-15.03979	0.49246	-20.34293	-52.149
Asta 114 (107- 106)	144	massimi	0.00	-540.68607	-2.52938	-2.4245	-0.016	23.47583	-0.169
Asta 114 (107- 106)	144	massimi	130.00	-546.53607	-2.52938	-2.4245	-0.016	1.67621	3.338
Asta 114 (107- 106)	144	massimi	260.00	-552.38607	-2.52938	-2.4245	-0.016	-2.19358	31.849
Asta 114 (107- 106)	144	minimi	0.00	-553.49385	-23.56709	-17.24651	-1.46999	4.09262	-29.447
Asta 114 (107- 106)	144	minimi	130.00	-559.34385	-23.56709	-17.24651	-1.46999	0.31993	0.971
Asta 114 (107- 106)	144	minimi	260.00	-565.19385	-23.56709	-17.24651	-1.46999	-21.38259	6.385
Asta 115 (112- 111)	145	massimi	0.00	-145.31771	-12.78406	-13.96135	-0.69587	44.72558	-19.446
Asta 115 (112- 111)	145	massimi	130.00	-148.24272	-12.78406	-13.96135	-0.69587	5.96299	-2.826
Asta 115 (112- 111)	145	massimi	260.00	-151.16772	-12.78406	-13.96135	-0.69587	-14.60495	23.394
Asta 115 (112- 111)	145	minimi	0.00	-155.27798	-22.23534	-29.81912	-1.1548	21.69438	-34.418
Asta 115 (112- 111)	145	minimi	130.00	-158.20298	-22.23534	-29.81912	-1.1548	3.54235	-5.512
Asta 115 (112- 111)	145	minimi	260.00	-161.12798	-22.23534	-29.81912	-1.1548	-32.80432	13.792
Asta 116 (117- 116)	146	massimi	0.00	-220.5551	36.7545	17.92711	0.27017	-11.89614	52.943
Asta 116 (117- 116)	146	massimi	130.00	-223.4801	36.7545	17.92711	0.27017	-2.86396	5.162
Asta 116 (117- 116)	146	massimi	260.00	-226.4051	36.7545	17.92711	0.27017	17.18386	-27.406
Asta 116 (117- 116)	146	minimi	0.00	-226.09911	23.34136	6.94724	-0.32741	-29.4271	33.281
Asta 116 (117- 116)	146	minimi	130.00	-229.02411	23.34136	6.94724	-0.32741	-6.12262	2.937
Asta 116 (117- 116)	146	minimi	260.00	-231.94911	23.34136	6.94724	-0.32741	6.16622	-42.619
Asta 117 (122- 121)	147	massimi	0.00	-198.90509	-22.20549	12.13058	-1.2392	-3.16679	-31.509
Asta 117 (122- 121)	147	massimi	130.00	-201.83009	-22.20549	12.13058	-1.2392	-0.58745	-2.63
Asta 117	147	massimi	260.00	-204.75509	-22.20549	12.13058	-1.2392	13.26764	38.755

(122-121)									
Asta 117 (122-121)	147	minimi	0.00	-206.47604	-32.83954	1.98345	-1.69797	-18.27218	-46.628
Asta 117 (122-121)	147	minimi	130.00	-209.40105	-32.83954	1.98345	-1.69797	-2.50328	-3.948
Asta 117 (122-121)	147	minimi	260.00	-212.32605	-32.83954	1.98345	-1.69797	1.98988	26.226
Asta 118 (127-126)	148	massimi	0.00	-207.64383	17.86648	-4.7263	-0.60243	25.96962	26.83
Asta 118 (127-126)	148	massimi	130.00	-210.56883	17.86648	-4.7263	-0.60243	5.52405	3.604
Asta 118 (127-126)	148	massimi	260.00	-213.49383	17.86648	-4.7263	-0.60243	-4.35163	-9.504
Asta 118 (127-126)	148	minimi	0.00	-221.39928	7.50314	-15.72745	-1.02944	7.93666	10.004
Asta 118 (127-126)	148	minimi	130.00	-224.32428	7.50314	-15.72745	-1.02944	1.79236	0.249
Asta 118 (127-126)	148	minimi	260.00	-227.24928	7.50314	-15.72745	-1.02944	-14.92184	-19.622
Asta 119 (132-131)	149	massimi	0.00	-143.28222	-1.39976	-5.58935	0.50038	23.38362	-3.295
Asta 119 (132-131)	149	massimi	130.00	-146.20722	-1.39976	-5.58935	0.50038	3.85251	-1.475
Asta 119 (132-131)	149	massimi	260.00	-149.13222	-1.39976	-5.58935	0.50038	-5.19609	16.082
Asta 119 (132-131)	149	minimi	0.00	-150.65288	-15.80752	-15.02436	0.06163	9.33602	-25.018
Asta 119 (132-131)	149	minimi	130.00	-153.57788	-15.80752	-15.02436	0.06163	2.06932	-4.468
Asta 119 (132-131)	149	minimi	260.00	-156.50288	-15.80752	-15.02436	0.06163	-15.67989	0.344
Asta 120 (137-136)	150	massimi	0.00	-202.17024	5.88464	4.50551	-0.98937	13.32421	8.422
Asta 120 (137-136)	150	massimi	130.00	-205.09524	5.88464	4.50551	-0.98937	0.92762	0.772
Asta 120 (137-136)	150	massimi	260.00	-208.02024	5.88464	4.50551	-0.98937	5.40259	2.655
Asta 120 (137-136)	150	minimi	0.00	-208.97163	-3.13033	-9.53599	-1.47343	-6.31176	-5.484
Asta 120 (137-136)	150	minimi	130.00	-211.89663	-3.13033	-9.53599	-1.47343	-0.45481	-1.415
Asta 120 (137-136)	150	minimi	260.00	-214.82163	-3.13033	-9.53599	-1.47343	-11.46941	-6.878
Asta 121 (142-141)	151	massimi	0.00	-189.92254	-7.58847	-30.43385	-1.42965	61.78792	-13.103
Asta 121 (142-141)	151	massimi	130.00	-192.84754	-7.58847	-30.43385	-1.42965	-1.79923	-3.234

Asta 121 (142-141)	151	massimi	260.00	-195.77254	-7.58847	-30.43385	-1.42965	-41.93014	18.09
Asta 121 (142-141)	151	minimi	0.00	-212.26899	-17.45086	-48.94183	-1.96271	37.19491	-27.284
Asta 121 (142-141)	151	minimi	130.00	-215.19399	-17.45086	-48.94183	-1.96271	-2.40632	-4.602
Asta 121 (142-141)	151	minimi	260.00	-218.11899	-17.45086	-48.94183	-1.96271	-65.46379	6.625
Asta 122 (147-146)	152	massimi	0.00	-38.02988	2.75194	-4.76591	-0.16771	18.59689	1.994
Asta 122 (147-146)	152	massimi	130.00	-40.06113	2.75194	-4.76591	-0.16771	2.20405	-1.569
Asta 122 (147-146)	152	massimi	260.00	-42.09237	2.75194	-4.76591	-0.16771	-4.32483	3.843
Asta 122 (147-146)	152	minimi	0.00	-51.95115	-4.43242	-12.64266	-0.51099	8.06562	-7.683
Asta 122 (147-146)	152	minimi	130.00	-53.9824	-4.43242	-12.64266	-0.51099	1.82732	-1.934
Asta 122 (147-146)	152	minimi	260.00	-56.01365	-4.43242	-12.64266	-0.51099	-14.27494	-5.162
Asta 123 (152-151)	153	massimi	0.00	-142.39121	-7.08681	-1.0975	1.1862	8.46235	-10.178
Asta 123 (152-151)	153	massimi	130.00	-145.31621	-7.08681	-1.0975	1.1862	1.97531	-0.965
Asta 123 (152-151)	153	massimi	260.00	-148.24121	-7.08681	-1.0975	1.1862	-0.60859	22.883
Asta 123 (152-151)	153	minimi	0.00	-143.78103	-19.52392	-4.99908	0.76088	2.2377	-27.879
Asta 123 (152-151)	153	minimi	130.00	-146.70603	-19.52392	-4.99908	0.76088	0.79918	-2.498
Asta 123 (152-151)	153	minimi	260.00	-149.63103	-19.52392	-4.99908	0.76088	-4.54248	8.248
Asta 124 (157-156)	154	massimi	0.00	-149.01867	-7.89889	-0.81298	0.26461	8.13357	-8.664
Asta 124 (157-156)	154	massimi	130.00	-151.04992	-7.89889	-0.81298	0.26461	1.25116	1.647
Asta 124 (157-156)	154	massimi	260.00	-153.08117	-7.89889	-0.81298	0.26461	0.0877	23.969
Asta 124 (157-156)	154	minimi	0.00	-162.38101	-17.26929	-5.42621	-0.04329	2.19972	-20.932
Asta 124 (157-156)	154	minimi	130.00	-164.41226	-17.26929	-5.42621	-0.04329	0.97119	1.476
Asta 124 (157-156)	154	minimi	260.00	-166.44351	-17.26929	-5.42621	-0.04329	-5.97629	11.873
Asta 125 (222-221)	155	massimi	0.00	-114.06335	9.63818	1.68375	0.25284	-0.3609	14.851
Asta 125 (222-221)	155	massimi	130.00	-116.98835	9.63818	1.68375	0.25284	-0.244	2.321

221)									
Asta 125 (222- 221)	155	massimi	260.00	-119.91335	9.63818	1.68375	0.25284	1.7826	13.594
Asta 125 (222- 221)	155	minimi	0.00	-117.55483	-12.87369	-0.28418	-0.23074	-2.61352	-19.878
Asta 125 (222- 221)	155	minimi	130.00	-120.47983	-12.87369	-0.28418	-0.23074	-0.91097	-3.142
Asta 125 (222- 221)	155	minimi	260.00	-123.40483	-12.87369	-0.28418	-0.23074	-1.11813	-10.209
Asta 126 (227- 226)	156	massimi	0.00	-189.74511	7.5283	1.80066	0.17598	0.76368	11.224
Asta 126 (227- 226)	156	massimi	130.00	-192.67011	7.5283	1.80066	0.17598	-0.32419	1.438
Asta 126 (227- 226)	156	massimi	260.00	-195.59511	7.5283	1.80066	0.17598	1.83074	11.326
Asta 126 (227- 226)	156	minimi	0.00	-192.36945	-10.9359	-0.89209	-0.31133	-2.85502	-17.108
Asta 126 (227- 226)	156	minimi	130.00	-195.29445	-10.9359	-0.89209	-0.31133	-0.58601	-2.891
Asta 126 (227- 226)	156	minimi	260.00	-198.21945	-10.9359	-0.89209	-0.31133	-1.5598	-8.349
Asta 127 (232- 231)	157	massimi	0.00	-194.29294	4.8628	1.4578	0.24988	1.58597	6.98
Asta 127 (232- 231)	157	massimi	130.00	-197.21794	4.8628	1.4578	0.24988	-0.01146	0.658
Asta 127 (232- 231)	157	massimi	260.00	-200.14294	4.8628	1.4578	0.24988	1.71478	10.304
Asta 127 (232- 231)	157	minimi	0.00	-195.9026	-10.19362	-1.27711	-0.24299	-2.07909	-16.199
Asta 127 (232- 231)	157	minimi	130.00	-198.8276	-10.19362	-1.27711	-0.24299	-0.24676	-2.948
Asta 127 (232- 231)	157	minimi	260.00	-201.7526	-10.19362	-1.27711	-0.24299	-1.7381	-5.663
Asta 128 (237- 236)	158	massimi	0.00	-193.47987	4.6678	1.28637	0.36021	1.91434	6.614
Asta 128 (237- 236)	158	massimi	130.00	-196.40487	4.6678	1.28637	0.36021	0.07569	0.546
Asta 128 (237- 236)	158	massimi	260.00	-199.32988	4.6678	1.28637	0.36021	1.57252	9.191
Asta 128 (237- 236)	158	minimi	0.00	-197.52069	-9.18457	-1.45967	-0.13046	-1.77567	-14.689
Asta 128 (237- 236)	158	minimi	130.00	-200.44569	-9.18457	-1.45967	-0.13046	-0.1623	-2.749
Asta 128 (237- 236)	158	minimi	260.00	-203.37069	-9.18457	-1.45967	-0.13046	-1.88442	-5.523
Asta 129 (242- 241)	159	massimi	0.00	-193.68247	7.25197	1.06204	0.42968	2.42719	10.571
Asta 129	159	massimi	130.00	-196.60747	7.25197	1.06204	0.42968	0.28708	1.163

(242-241)									
Asta 129 (242-241)	159	massimi	260.00	-199.53247	7.25197	1.06204	0.42968	1.48551	6.062
Asta 129 (242-241)	159	minimi	0.00	-195.52133	-6.22225	-1.6921	-0.06373	-1.27959	-10.116
Asta 129 (242-241)	159	minimi	130.00	-198.44634	-6.22225	-1.6921	-0.06373	0.04145	-2.047
Asta 129 (242-241)	159	minimi	260.00	-201.37134	-6.22225	-1.6921	-0.06373	-1.97607	-8.284
Asta 130 (68-53)	160	massimi	0.00	12.07065	4.07028	-3.33199	5.805	19.2546	5.967
Asta 130 (68-53)	160	massimi	116.50	12.07065	4.07028	-17.97055	5.805	6.6732	1.225
Asta 130 (68-53)	160	massimi	233.00	12.07065	4.07028	-32.60912	5.805	-22.84009	-3.516
Asta 130 (68-53)	160	minimi	0.00	12.07065	4.07028	-10.54851	3.54869	18.09402	5.967
Asta 130 (68-53)	160	minimi	116.50	12.07065	4.07028	-25.18707	3.54869	-2.54929	1.225
Asta 130 (68-53)	160	minimi	233.00	12.07065	4.07028	-39.82564	3.54869	-40.36857	-3.516
Asta 131 (63-58)	161	massimi	0.00	-3.43755	0.19465	21.95516	0.42214	-9.8855	0.585
Asta 131 (63-58)	161	massimi	204.50	-3.43755	0.19465	-1.99168	0.05746	8.15969	0.187
Asta 131 (63-58)	161	massimi	409.00	-3.43755	0.19465	-24.92471	-0.12912	-19.75954	-0.211
Asta 131 (63-58)	161	minimi	0.00	-3.43755	0.19465	20.88195	0.31619	-12.30466	0.585
Asta 131 (63-58)	161	minimi	204.50	-3.43755	0.19465	-3.06488	-0.0485	7.93522	0.187
Asta 131 (63-58)	161	minimi	409.00	-3.43755	0.19465	-25.99792	-0.23508	-21.72981	-0.211
Asta 132 (58-68)	162	massimi	0.00	-9.89592	0.84672	35.89117	0.92195	-35.78036	1.824
Asta 132 (58-68)	162	massimi	205.50	-9.89592	0.84672	11.84487	0.56905	9.76662	0.084
Asta 132 (58-68)	162	massimi	411.00	-9.89592	0.84672	-11.4142	0.35933	10.07284	-1.656
Asta 132 (58-68)	162	minimi	0.00	-9.89592	0.84672	34.1357	0.23868	-39.14885	1.824
Asta 132 (58-68)	162	minimi	205.50	-9.89592	0.84672	10.08941	-0.11421	9.52464	0.084
Asta 132 (58-68)	162	minimi	411.00	-9.89592	0.84672	-13.16967	-0.32393	6.22635	-1.656
Asta 133 (88-58)	163	massimi	0.00	0.58049	-1.07595	3.72746	-0.14879	1.57715	-1.753
Asta 133 (88-58)	163	massimi	166.00	0.58049	-1.07595	0.36596	-0.14879	1.70134	0.033
Asta 133 (88-58)	163	massimi	332.00	0.58049	-1.07595	-2.99554	-0.14879	-0.50096	1.819
Asta 133 (88-58)	163	minimi	0.00	0.58049	-1.07595	1.75521	-0.20266	-1.71595	-1.753
Asta 133 (88-58)	163	minimi	166.00	0.58049	-1.07595	-1.60629	-0.20266	1.68101	0.033
Asta 133 (88-58)	163	minimi	332.00	0.58049	-1.07595	-4.96779	-0.20266	-3.75572	1.819
Asta 134 (93-63)	164	massimi	0.00	-0.08024	-0.31753	4.18353	0.0413	1.14426	-0.537
Asta 134 (93-63)	164	massimi	166.00	-0.08024	-0.31753	0.82203	0.0413	1.57416	-0.01
Asta 134 (93-63)	164	massimi	332.00	-0.08024	-0.31753	-2.53947	0.0413	0.14472	0.517
Asta 134 (93-63)	164	minimi	0.00	-0.08024	-0.31753	1.93915	-0.04997	-2.58441	-0.537

Asta 134 (93-63)	164	minimi	166.00	-0.08024	-0.31753	-1.42235	-0.04997	1.56924	-0.01
Asta 134 (93-63)	164	minimi	332.00	-0.08024	-0.31753	-4.78385	-0.04997	-3.57795	0.517
Asta 135 (83-68)	165	massimi	0.00	11.22393	-5.82564	28.59161	-2.60916	-10.62645	-6.417
Asta 135 (83-68)	165	massimi	120.50	11.22393	-5.82564	18.68595	-2.60916	9.60475	0.603
Asta 135 (83-68)	165	massimi	241.00	11.22393	-5.82564	8.78029	-2.60916	19.52763	7.623
Asta 135 (83-68)	165	minimi	0.00	11.22393	-5.82564	21.7344	-4.33634	-25.52995	-6.417
Asta 135 (83-68)	165	minimi	120.50	11.22393	-5.82564	11.82874	-4.33634	2.94538	0.603
Asta 135 (83-68)	165	minimi	241.00	11.22393	-5.82564	1.92308	-4.33634	17.85637	7.623
Asta 136 (98-83)	166	massimi	0.00	15.21791	10.20132	-25.49426	7.47244	12.11219	2.056
Asta 136 (98-83)	166	massimi	45.50	15.21791	10.20132	-31.14912	7.47244	-0.90134	-2.585
Asta 136 (98-83)	166	massimi	91.00	15.21791	10.20132	-36.80398	7.47244	-16.47591	-7.227
Asta 136 (98-83)	166	minimi	0.00	15.21791	10.20132	-31.35876	4.2791	4.50153	2.056
Asta 136 (98-83)	166	minimi	45.50	15.21791	10.20132	-37.01362	4.2791	-10.92602	-2.585
Asta 136 (98-83)	166	minimi	91.00	15.21791	10.20132	-42.66847	4.2791	-28.93846	-7.227
Asta 137 (88-93)	167	massimi	0.00	-4.08317	0.22035	26.58865	0.5026	-19.4732	0.299
Asta 137 (88-93)	167	massimi	204.50	-4.08317	0.22035	2.64181	0.13791	8.32292	-0.152
Asta 137 (88-93)	167	massimi	409.00	-4.08317	0.22035	-20.29122	-0.04867	-9.89639	-0.602
Asta 137 (88-93)	167	minimi	0.00	-4.08317	0.22035	25.53772	0.40386	-21.39249	0.299
Asta 137 (88-93)	167	minimi	204.50	-4.08317	0.22035	1.59088	0.03918	8.093	-0.152
Asta 137 (88-93)	167	minimi	409.00	-4.08317	0.22035	-21.34215	-0.1474	-12.27542	-0.602
Asta 138 (98-88)	168	massimi	0.00	-12.2405	0.68408	14.61388	0.44116	8.56913	1.17
Asta 138 (98-88)	168	massimi	205.50	-12.2405	0.68408	-9.43241	0.08826	9.94067	-0.236
Asta 138 (98-88)	168	massimi	411.00	-12.2405	0.68408	-32.69149	-0.12146	-33.82999	-1.642
Asta 138 (98-88)	168	minimi	0.00	-12.2405	0.68408	12.75429	0.0122	4.39791	1.17
Asta 138 (98-88)	168	minimi	205.50	-12.2405	0.68408	-11.29201	-0.34069	9.5832	-0.236
Asta 138 (98-88)	168	minimi	411.00	-12.2405	0.68408	-34.55109	-0.55041	-37.30185	-1.642
Asta 139 (113-98)	169	massimi	0.00	14.53382	-2.03918	35.50656	0.00603	-20.03333	-4.584
Asta 139 (113-98)	169	massimi	191.50	14.53382	-2.03918	11.70522	0.00603	15.04437	-0.679
Asta 139 (113-98)	169	massimi	383.00	14.53382	-2.03918	-12.09613	0.00603	12.54033	3.226
Asta 139 (113-98)	169	minimi	0.00	14.53382	-2.03918	30.21396	-1.22153	-32.29087	-4.584
Asta 139 (113-98)	169	minimi	191.50	14.53382	-2.03918	6.41261	-1.22153	12.90665	-0.679
Asta 139 (113-98)	169	minimi	383.00	14.53382	-2.03918	-17.38873	-1.22153	4.52676	3.226
Asta 140 (143-113)	170	massimi	0.00	5.18457	2.41652	25.99405	3.2775	-20.69012	2.493
Asta 140 (143-113)	170	massimi	165.00	5.18457	2.41652	20.42109	3.2775	-0.41124	-1.495

Asta 140 (143-113)	170	massimi	330.00	5.18457	2.41652	14.84812	3.2775	27.24565	-5.482
Asta 140 (143-113)	170	minimi	0.00	5.18457	2.41652	15.07634	2.67616	-40.14404	2.493
Asta 140 (143-113)	170	minimi	165.00	5.18457	2.41652	9.50338	2.67616	-1.85216	-1.495
Asta 140 (143-113)	170	minimi	330.00	5.18457	2.41652	3.93041	2.67616	10.67092	-5.482
Asta 141 (3-2)	171	massimi	0.00	-238.20798	34.73222	14.49948	1.10067	-1.1586	9.44
Asta 141 (3-2)	171	massimi	94.00	-242.43798	34.73222	14.49948	1.10067	9.11212	-4.269
Asta 141 (3-2)	171	massimi	188.00	-246.66798	34.73222	14.49948	1.10067	22.47579	-15.80
Asta 141 (3-2)	171	minimi	0.00	-258.06698	12.21576	3.83822	-0.62562	-5.28483	1.508
Asta 141 (3-2)	171	minimi	94.00	-262.29698	12.21576	3.83822	-0.62562	1.68188	-28.914
Asta 141 (3-2)	171	minimi	188.00	-266.52698	12.21576	3.83822	-0.62562	5.55565	-61.514
Asta 142 (8-7)	172	massimi	0.00	-249.07602	-15.69947	19.49985	2.18386	-3.85684	-0.747
Asta 142 (8-7)	172	massimi	94.00	-253.30602	-15.69947	19.49985	2.18386	10.67134	33.322
Asta 142 (8-7)	172	massimi	188.00	-257.53602	-15.69947	19.49985	2.18386	28.95644	69.245
Asta 142 (8-7)	172	minimi	0.00	-269.86111	-38.2731	10.52877	0.45757	-7.89903	-8.041
Asta 142 (8-7)	172	minimi	94.00	-274.09111	-38.2731	10.52877	0.45757	5.7997	8.625
Asta 142 (8-7)	172	minimi	188.00	-278.32111	-38.2731	10.52877	0.45757	15.7415	23.436
Asta 143 (13-12)	173	massimi	0.00	-280.20784	41.98702	11.40202	1.83273	1.4653	-13.804
Asta 143 (13-12)	173	massimi	94.00	-284.43784	41.98702	11.40202	1.83273	8.10981	-36.14
Asta 143 (13-12)	173	massimi	188.00	-288.66784	41.98702	11.40202	1.83273	18.67154	-56.831
Asta 143 (13-12)	173	minimi	0.00	-292.51838	21.98361	-4.65655	0.10644	-3.66179	-18.014
Asta 143 (13-12)	173	minimi	94.00	-296.74838	21.98361	-4.65655	0.10644	-3.96556	-55.81
Asta 143 (13-12)	173	minimi	188.00	-300.97838	21.98361	-4.65655	0.10644	-8.18655	-95.251
Asta 144 (18-17)	174	massimi	0.00	-319.62248	5.87244	18.12537	3.18756	-0.99018	25.097
Asta 144 (18-17)	174	massimi	94.00	-323.85248	5.87244	18.12537	3.18756	11.41507	54.766
Asta 144 (18-17)	174	massimi	188.00	-328.08248	5.87244	18.12537	3.18756	28.42411	94.422
Asta 144 (18-17)	174	minimi	0.00	-327.65079	-42.20395	4.27333	1.46127	-6.24028	14.023
Asta 144 (18-17)	174	minimi	94.00	-331.88079	-42.20395	4.27333	1.46127	2.40925	18.505
Asta 144 (18-17)	174	minimi	188.00	-336.11079	-42.20395	4.27333	1.46127	6.45499	13.001
Asta 145 (23-22)	175	massimi	0.00	-54.32318	-9.81625	14.38255	0.58058	-1.80504	-5.356
Asta 145 (23-22)	175	massimi	94.00	-55.79193	-9.81625	14.38255	0.58058	9.9243	9.038
Asta 145 (23-22)	175	massimi	188.00	-57.26068	-9.81625	14.38255	0.58058	23.39278	23.564
Asta 145 (23-22)	175	minimi	0.00	-59.80758	-15.45628	8.88377	0.31197	-3.98907	-5.987
Asta 145 (23-22)	175	minimi	94.00	-61.27633	-15.45628	8.88377	0.31197	6.15193	3.375

Asta 145 (23-22)	175	minimi	188.00	-62.74508	-15.45628	8.88377	0.31197	14.55378	12.605
Asta 146 (28-27)	176	massimi	0.00	-289.99017	37.62817	7.43821	1.71357	2.6534	-11.699
Asta 146 (28-27)	176	massimi	94.00	-294.22017	37.62817	7.43821	1.71357	5.6143	-31.927
Asta 146 (28-27)	176	massimi	188.00	-298.45017	37.62817	7.43821	1.71357	12.47472	-51.99
Asta 146 (28-27)	176	minimi	0.00	-299.51517	21.33617	-8.97852	-0.01272	-2.37883	-13.443
Asta 146 (28-27)	176	minimi	94.00	-303.74517	21.33617	-8.97852	-0.01272	-6.78763	-48.641
Asta 146 (28-27)	176	minimi	188.00	-307.97517	21.33617	-8.97852	-0.01272	-15.09595	-84.005
Asta 147 (33-32)	177	massimi	0.00	-362.47815	5.40609	10.24511	2.08017	1.05079	25.73
Asta 147 (33-32)	177	massimi	94.00	-366.70815	5.40609	10.24511	2.08017	6.15296	43.75
Asta 147 (33-32)	177	massimi	188.00	-370.93815	5.40609	10.24511	2.08017	15.74959	64.392
Asta 147 (33-32)	177	minimi	0.00	-366.26982	-21.97576	-3.73071	0.35388	-4.05061	21.897
Asta 147 (33-32)	177	minimi	94.00	-370.49982	-21.97576	-3.73071	0.35388	-3.02924	19.453
Asta 147 (33-32)	177	minimi	188.00	-374.72982	-21.97576	-3.73071	0.35388	-6.50235	14.386
Asta 148 (38-37)	178	massimi	0.00	-80.9799	-15.20013	13.71764	0.45539	-1.73934	-7.012
Asta 148 (38-37)	178	massimi	94.00	-82.44865	-15.20013	13.71764	0.45539	9.42678	10.69
Asta 148 (38-37)	178	massimi	188.00	-83.9174	-15.20013	13.71764	0.45539	22.1768	28.409
Asta 148 (38-37)	178	minimi	0.00	-87.2721	-18.86944	7.36117	0.18678	-3.85866	-7.782
Asta 148 (38-37)	178	minimi	94.00	-88.74085	-18.86944	7.36117	0.18678	4.7893	6.542
Asta 148 (38-37)	178	minimi	188.00	-90.2096	-18.86944	7.36117	0.18678	11.85336	20.849
Asta 149 (43-42)	179	massimi	0.00	-289.49663	35.98363	7.11523	0.40845	2.75548	-9.996
Asta 149 (43-42)	179	massimi	94.00	-293.72663	35.98363	7.11523	0.40845	5.39639	-31.801
Asta 149 (43-42)	179	massimi	188.00	-297.95663	35.98363	7.11523	0.40845	11.96002	-52.367
Asta 149 (43-42)	179	minimi	0.00	-299.78954	21.81207	-9.32936	-1.31784	-2.28561	-13.212
Asta 149 (43-42)	179	minimi	94.00	-304.01954	21.81207	-9.32936	-1.31784	-7.0078	-45.735
Asta 149 (43-42)	179	minimi	188.00	-308.24954	21.81207	-9.32936	-1.31784	-15.65272	-79.497
Asta 150 (48-47)	180	massimi	0.00	-367.25885	8.08596	7.09692	1.09616	2.05211	26.663
Asta 150 (48-47)	180	massimi	94.00	-371.48885	8.08596	7.09692	1.09616	4.15508	40.167
Asta 150 (48-47)	180	massimi	188.00	-375.71885	8.08596	7.09692	1.09616	10.7947	57.157
Asta 150 (48-47)	180	minimi	0.00	-371.11628	-18.11862	-7.01359	-0.63013	-3.08713	22.392
Asta 150 (48-47)	180	minimi	94.00	-375.34628	-18.11862	-7.01359	-0.63013	-5.11176	18.318
Asta 150 (48-47)	180	minimi	188.00	-379.57628	-18.11862	-7.01359	-0.63013	-11.67304	10.759
Asta 151 (53-52)	181	massimi	0.00	-118.18135	-14.07829	22.11575	-1.26808	-9.57531	-7.558
Asta 151 (53-52)	181	massimi	94.00	-119.6501	-14.07829	22.11575	-1.26808	2.57436	8.944
Asta 151 (53-52)	181	massimi	188.00	-121.11885	-14.07829	22.11575	-1.26808	23.35836	25.915
Asta 151 (53-52)	181	minimi	0.00	-126.02928	-18.096	9.93793	-1.53669	-18.26942	-8.15

Asta 151 (53-52)	181	minimi	94.00	-127.49803	-18.096	9.93793	-1.53669	-0.28864	5.593
Asta 151 (53-52)	181	minimi	188.00	-128.96678	-18.096	9.93793	-1.53669	9.05782	18.865
Asta 152 (58-57)	182	massimi	0.00	-63.49331	-6.22621	1.08033	-0.0884	0.57283	-13.869
Asta 152 (58-57)	182	massimi	94.00	-64.96206	-6.22621	1.08033	-0.0884	0.13491	-7.973
Asta 152 (58-57)	182	massimi	188.00	-66.43081	-6.22621	1.08033	-0.0884	0.19913	-1.915
Asta 152 (58-57)	182	minimi	0.00	-65.41951	-8.84242	-0.93719	-0.3441	-3.30469	-19.219
Asta 152 (58-57)	182	minimi	94.00	-66.88826	-8.84242	-0.93719	-0.3441	-2.7322	-10.951
Asta 152 (58-57)	182	minimi	188.00	-68.35701	-8.84242	-0.93719	-0.3441	-2.66186	-2.844
Asta 153 (63-62)	183	massimi	0.00	-24.06229	-3.32253	1.1555	0.06025	0.55438	-9.876
Asta 153 (63-62)	183	massimi	94.00	-25.53104	-3.32253	1.1555	0.06025	0.3817	-6.673
Asta 153 (63-62)	183	massimi	188.00	-26.99979	-3.32253	1.1555	0.06025	0.6778	-3.394
Asta 153 (63-62)	183	minimi	0.00	-26.09813	-4.18764	-0.60572	-0.19545	-3.24927	-12.306
Asta 153 (63-62)	183	minimi	94.00	-27.56688	-4.18764	-0.60572	-0.19545	-2.55979	-8.449
Asta 153 (63-62)	183	minimi	188.00	-29.03563	-4.18764	-0.60572	-0.19545	-2.3391	-4.668
Asta 154 (73-72)	184	massimi	0.00	-284.54281	37.74531	4.87475	0.30821	3.43151	-9.752
Asta 154 (73-72)	184	massimi	94.00	-288.77281	37.74531	4.87475	0.30821	3.91673	-33.596
Asta 154 (73-72)	184	massimi	188.00	-293.00281	37.74531	4.87475	0.30821	8.41162	-54.844
Asta 154 (73-72)	184	minimi	0.00	-295.53373	22.35745	-11.40812	-1.41808	-1.64333	-13.778
Asta 154 (73-72)	184	minimi	94.00	-299.76373	22.35745	-11.40812	-1.41808	-8.26992	-46.431
Asta 154 (73-72)	184	minimi	188.00	-303.99373	22.35745	-11.40812	-1.41808	-18.90617	-81.68
Asta 155 (78-77)	185	massimi	0.00	-356.38279	11.32603	2.06363	0.12602	3.50382	30.277
Asta 155 (78-77)	185	massimi	94.00	-360.61279	11.32603	2.06363	0.12602	0.86502	38.003
Asta 155 (78-77)	185	massimi	188.00	-364.84279	11.32603	2.06363	0.12602	2.77136	51.023
Asta 155 (78-77)	185	minimi	0.00	-362.50253	-14.09202	-11.96733	-1.60027	-1.65768	23.516
Asta 155 (78-77)	185	minimi	94.00	-366.73253	-14.09202	-11.96733	-1.60027	-8.32836	18.39
Asta 155 (78-77)	185	minimi	188.00	-370.96253	-14.09202	-11.96733	-1.60027	-19.54417	7.971
Asta 156 (83-82)	186	massimi	0.00	-142.03471	-10.45536	8.36827	-0.15434	5.54263	-4.513
Asta 156 (83-82)	186	massimi	94.00	-143.50346	-10.45536	8.36827	-0.15434	0.68608	8.219
Asta 156 (83-82)	186	massimi	188.00	-144.97221	-10.45536	8.36827	-0.15434	8.54605	22.678
Asta 156 (83-82)	186	minimi	0.00	-146.96859	-15.38929	-7.0472	-0.42295	-7.187	-6.26
Asta 156 (83-82)	186	minimi	94.00	-148.43734	-15.38929	-7.0472	-0.42295	-1.08864	5.302
Asta 156 (83-82)	186	minimi	188.00	-149.90609	-15.38929	-7.0472	-0.42295	-7.7068	15.137
Asta 157 (88-87)	187	massimi	0.00	-61.25961	-5.74314	1.99585	-0.05964	1.1168	-12.619
Asta 157 (88-87)	187	massimi	94.00	-62.72836	-5.74314	1.99585	-0.05964	1.65576	-7.198
Asta 157 (88-87)	187	massimi	188.00	-64.19711	-5.74314	1.99585	-0.05964	2.68047	-1.614

Asta 157 (88-87)	187	minimi	0.00	-63.592	-8.41963	0.09261	-0.31534	-2.55633	-17.998
Asta 157 (88-87)	187	minimi	94.00	-65.06075	-8.41963	0.09261	-0.31534	-1.13213	-10.107
Asta 157 (88-87)	187	minimi	188.00	-66.5295	-8.41963	0.09261	-0.31534	-0.19368	-2.378
Asta 158 (93-92)	188	massimi	0.00	-22.49288	-3.31558	1.02135	0.06236	2.5212	-9.893
Asta 158 (93-92)	188	massimi	94.00	-23.96163	-3.31558	1.02135	0.06236	2.2101	-6.704
Asta 158 (93-92)	188	massimi	188.00	-25.43038	-3.31558	1.02135	0.06236	2.38641	-3.442
Asta 158 (93-92)	188	minimi	0.00	-25.26316	-4.2157	-0.74114	-0.19334	-1.27711	-12.287
Asta 158 (93-92)	188	minimi	94.00	-26.73191	-4.2157	-0.74114	-0.19334	-0.70262	-8.397
Asta 158 (93-92)	188	minimi	188.00	-28.20066	-4.2157	-0.74114	-0.19334	-0.61554	-4.58
Asta 159 (103-102)	189	massimi	0.00	-237.863	44.8559	0.92115	1.73532	4.03252	-4.957
Asta 159 (103-102)	189	massimi	94.00	-242.093	44.8559	0.92115	1.73532	0.74396	-34.71
Asta 159 (103-102)	189	massimi	188.00	-246.323	44.8559	0.92115	1.73532	1.50343	-59.596
Asta 159 (103-102)	189	minimi	0.00	-258.69534	26.36144	-11.72366	0.00903	-0.73329	-12.361
Asta 159 (103-102)	189	minimi	94.00	-262.92534	26.36144	-11.72366	0.00903	-7.59909	-49.552
Asta 159 (103-102)	189	minimi	188.00	-267.15534	26.36144	-11.72366	0.00903	-18.51291	-91.611
Asta 160 (108-107)	190	massimi	0.00	-310.08698	8.68868	-4.17412	-0.06107	4.45623	23.23
Asta 160 (108-107)	190	massimi	94.00	-314.31698	8.68868	-4.17412	-0.06107	-4.20062	33.463
Asta 160 (108-107)	190	massimi	188.00	-318.54698	8.68868	-4.17412	-0.06107	-8.14749	48.557
Asta 160 (108-107)	190	minimi	0.00	-326.95025	-16.17517	-15.65693	-1.78736	-0.57007	17.04
Asta 160 (108-107)	190	minimi	94.00	-331.18025	-16.17517	-15.65693	-1.78736	-10.5544	13.844
Asta 160 (108-107)	190	minimi	188.00	-335.41025	-16.17517	-15.65693	-1.78736	-25.24871	5.788
Asta 161 (113-112)	191	massimi	0.00	-79.93116	-12.71242	-17.27269	-0.84736	29.34893	-6.295
Asta 161 (113-112)	191	massimi	94.00	-81.39991	-12.71242	-17.27269	-0.84736	-0.09809	9.491
Asta 161 (113-112)	191	massimi	188.00	-82.86866	-12.71242	-17.27269	-0.84736	-16.33614	25.802
Asta 161 (113-112)	191	minimi	0.00	-86.16443	-17.35377	-32.89701	-1.11597	16.13614	-6.841
Asta 161 (113-112)	191	minimi	94.00	-87.63318	-17.35377	-32.89701	-1.11597	-1.57635	5.636
Asta 161 (113-112)	191	minimi	188.00	-89.10193	-17.35377	-32.89701	-1.11597	-32.49782	17.587

112)									
Asta 162 (118- 117)	192	massimi	0.00	-77.41118	14.60155	17.31221	0.29332	-6.40294	4.247
Asta 162 (118- 117)	192	massimi	94.00	-78.87993	14.60155	17.31221	0.29332	7.98027	-5.113
Asta 162 (118- 117)	192	massimi	188.00	-80.34868	14.60155	17.31221	0.29332	24.24377	-14.282
Asta 162 (118- 117)	192	minimi	0.00	-80.90645	9.75312	10.98421	0.0247	-8.6288	3.671
Asta 162 (118- 117)	192	minimi	94.00	-82.3752	9.75312	10.98421	0.0247	3.58661	-9.862
Asta 162 (118- 117)	192	minimi	188.00	-83.84395	9.75312	10.98421	0.0247	13.92174	-23.586
Asta 163 (123- 122)	193	massimi	0.00	-56.53747	-12.31554	6.59594	-0.87477	-0.78865	-4.015
Asta 163 (123- 122)	193	massimi	94.00	-58.00622	-12.31554	6.59594	-0.87477	3.94764	10.774
Asta 163 (123- 122)	193	massimi	188.00	-59.47497	-12.31554	6.59594	-0.87477	10.13609	25.663
Asta 163 (123- 122)	193	minimi	0.00	-61.84232	-15.85049	1.829	-1.14339	-2.61776	-4.633
Asta 163 (123- 122)	193	minimi	94.00	-63.31107	-15.85049	1.829	-1.14339	0.5654	7.054
Asta 163 (123- 122)	193	minimi	188.00	-64.77982	-15.85049	1.829	-1.14339	2.29639	18.641
Asta 164 (128- 127)	194	massimi	0.00	-70.41522	9.22086	-9.97169	-0.47078	8.88161	2.316
Asta 164 (128- 127)	194	massimi	94.00	-71.88397	9.22086	-9.97169	-0.47078	-2.39922	-2.064
Asta 164 (128- 127)	194	massimi	188.00	-73.35272	9.22086	-9.97169	-0.47078	-11.78815	-5.655
Asta 164 (128- 127)	194	minimi	0.00	-73.70027	3.81847	-16.54848	-0.73939	6.5982	1.493
Asta 164 (128- 127)	194	minimi	94.00	-75.16902	3.81847	-16.54848	-0.73939	-7.04992	-6.383
Asta 164 (128- 127)	194	minimi	188.00	-76.63777	3.81847	-16.54848	-0.73939	-22.58996	-15.049
Asta 165 (133- 132)	195	massimi	0.00	-76.98992	0.54434	-3.29207	0.08288	2.40495	0.587
Asta 165 (133- 132)	195	massimi	94.00	-78.45867	0.54434	-3.29207	0.08288	-2.13864	5.032
Asta 165 (133- 132)	195	massimi	188.00	-79.92742	0.54434	-3.29207	0.08288	-5.24628	9.968
Asta 165 (133- 132)	195	minimi	0.00	-80.43353	-5.25209	-7.84095	-0.18574	0.56638	-0.001
Asta 165 (133- 132)	195	minimi	94.00	-81.90228	-5.25209	-7.84095	-0.18574	-5.35507	-0.021
Asta 165	195	minimi	188.00	-83.37103	-5.25209	-7.84095	-0.18574	-12.71248	-0.532

(133-132)									
Asta 166 (138-137)	196	massimi	0.00	-87.633	3.5725	1.24688	-0.68963	1.54308	1.694
Asta 166 (138-137)	196	massimi	94.00	-89.10175	3.5725	1.24688	-0.68963	1.17245	1.825
Asta 166 (138-137)	196	massimi	188.00	-90.5705	3.5725	1.24688	-0.68963	2.24337	2.24
Asta 166 (138-137)	196	minimi	0.00	-90.2707	-0.44266	-4.1754	-0.95825	-0.41589	1.241
Asta 166 (138-137)	196	minimi	94.00	-91.73945	-0.44266	-4.1754	-0.95825	-2.79806	-1.833
Asta 166 (138-137)	196	minimi	188.00	-93.2082	-0.44266	-4.1754	-0.95825	-6.62179	-5.189
Asta 167 (143-142)	197	massimi	0.00	-64.08958	-6.26105	-15.08795	-1.86785	21.47206	-1.954
Asta 167 (143-142)	197	massimi	94.00	-65.55833	-6.26105	-15.08795	-1.86785	-1.81276	7.034
Asta 167 (143-142)	197	massimi	188.00	-67.02708	-6.26105	-15.08795	-1.86785	-16.00042	16.435
Asta 167 (143-142)	197	minimi	0.00	-75.8899	-10.00825	-27.0896	-2.13646	12.36255	-2.648
Asta 167 (143-142)	197	minimi	94.00	-77.35865	-10.00825	-27.0896	-2.13646	-3.99953	3.658
Asta 167 (143-142)	197	minimi	188.00	-78.82739	-10.00825	-27.0896	-2.13646	-29.45877	9.55
Asta 168 (148-147)	198	massimi	0.00	-24.51807	-0.81353	-4.07173	-0.04435	2.72359	-0.933
Asta 168 (148-147)	198	massimi	94.00	-25.98682	-0.81353	-4.07173	-0.04435	-2.82101	3.668
Asta 168 (148-147)	198	massimi	188.00	-27.45557	-0.81353	-4.07173	-0.04435	-6.75093	8.825
Asta 168 (148-147)	198	minimi	0.00	-30.64235	-5.48815	-9.51991	-0.30005	0.63283	-1.534
Asta 168 (148-147)	198	minimi	94.00	-32.1111	-5.48815	-9.51991	-0.30005	-6.5987	-0.212
Asta 168 (148-147)	198	minimi	188.00	-33.57985	-5.48815	-9.51991	-0.30005	-15.44492	0.554
Asta 169 (153-152)	199	massimi	0.00	-75.49073	-4.52333	0.00205	0.9164	1.17671	-1.904
Asta 169 (153-152)	199	massimi	94.00	-76.95948	-4.52333	0.00205	0.9164	0.11017	6.158
Asta 169 (153-152)	199	massimi	188.00	-78.42823	-4.52333	0.00205	0.9164	0.09497	14.41
Asta 169 (153-152)	199	minimi	0.00	-76.05676	-8.79028	-2.60059	0.64778	-0.06357	-2.389
Asta 169 (153-152)	199	minimi	94.00	-77.52551	-8.79028	-2.60059	0.64778	-1.43965	2.064

Asta 169 (153-152)	199	minimi	188.00	-78.99426	-8.79028	-2.60059	0.64778	-3.86709	6.327
Asta 170 (158-157)	200	massimi	0.00	-72.81282	-3.3307	0.64775	0.5493	-0.38819	-1.81
Asta 170 (158-157)	200	massimi	94.00	-74.28157	-3.3307	0.64775	0.5493	-1.09539	5.865
Asta 170 (158-157)	200	massimi	188.00	-75.75032	-3.3307	0.64775	0.5493	-0.50313	13.924
Asta 170 (158-157)	200	minimi	0.00	-75.00018	-8.57457	-2.31461	0.2936	-1.8745	-2.315
Asta 170 (158-157)	200	minimi	94.00	-76.46893	-8.57457	-2.31461	0.2936	-2.73416	1.20
Asta 170 (158-157)	200	minimi	188.00	-77.93768	-8.57457	-2.31461	0.2936	-4.89326	4.332
Asta 171 (4-9)	201	massimi	0.00	39.30857	0.08717	54.31868	-0.58311	-95.28649	0.371
Asta 171 (4-9)	201	massimi	630.00	39.30857	0.08717	1.26563	0.50153	55.20947	-0.179
Asta 171 (4-9)	201	massimi	1260.00	39.30857	0.08717	-49.27942	1.13267	-97.35491	-0.728
Asta 171 (4-9)	201	minimi	0.00	39.30857	0.08717	50.62342	-1.03121	-118.56862	0.371
Asta 171 (4-9)	201	minimi	630.00	39.30857	0.08717	-2.42963	0.05344	55.203	-0.179
Asta 171 (4-9)	201	minimi	1260.00	39.30857	0.08717	-52.97469	0.68458	-120.63308	-0.728
Asta 172 (14-4)	202	massimi	0.00	-0.99606	0.2754	25.60751	0.83471	8.15676	0.957
Asta 172 (14-4)	202	massimi	237.00	-0.99606	0.2754	0.83188	1.25853	12.14795	0.304
Asta 172 (14-4)	202	massimi	474.00	-0.99606	0.2754	-22.7332	1.47104	-14.04507	-0.349
Asta 172 (14-4)	202	minimi	0.00	-0.99606	0.2754	13.41584	0.26966	-18.94462	0.957
Asta 172 (14-4)	202	minimi	237.00	-0.99606	0.2754	-11.3598	0.69348	10.3531	0.304
Asta 172 (14-4)	202	minimi	474.00	-0.99606	0.2754	-34.92487	0.90599	-44.73245	-0.349
Asta 173 (9-19)	203	massimi	0.00	-2.6892	-0.90645	41.83456	-2.5989	-33.09675	-2.507
Asta 173 (9-19)	203	massimi	237.00	-2.6892	-0.90645	17.05893	-2.17508	11.81859	-0.359
Asta 173 (9-19)	203	massimi	474.00	-2.6892	-0.90645	-6.50615	-1.96257	22.61832	1.789
Asta 173 (9-19)	203	minimi	0.00	-2.6892	-0.90645	31.43862	-3.32375	-59.19784	-2.507
Asta 173 (9-19)	203	minimi	237.00	-2.6892	-0.90645	6.66299	-2.89994	10.34785	-0.359
Asta 173 (9-19)	203	minimi	474.00	-2.6892	-0.90645	-16.90209	-2.68742	-0.55834	1.789
Asta 174 (29-14)	204	massimi	0.00	-0.84492	-0.5216	31.74023	-0.76377	-5.56291	-1.331
Asta 174 (29-14)	204	massimi	237.00	-0.84492	-0.5216	6.96459	-0.33995	10.70081	-0.095
Asta 174 (29-14)	204	massimi	474.00	-0.84492	-0.5216	-16.60048	-0.12744	-0.95839	1.141
Asta 174 (29-14)	204	minimi	0.00	-0.84492	-0.5216	19.28641	-1.46242	-34.92694	-1.331
Asta 174 (29-14)	204	minimi	237.00	-0.84492	-0.5216	-5.48923	-1.0386	10.54605	-0.095
Asta 174 (29-14)	204	minimi	474.00	-0.84492	-0.5216	-29.0543	-0.82608	-30.62553	1.141
Asta 175	205	massimi	0.00	-13.25335	-0.77605	43.43649	1.17313	-14.33608	-2.281

(24-19)									
Asta 175 (24-19)	205	massimi	307.50	-13.25335	-0.77605	0.40352	0.6145	38.33439	0.106
Asta 175 (24-19)	205	massimi	615.00	-13.25335	-0.77605	-40.93733	0.34775	-24.42006	2.492
Asta 175 (24-19)	205	minimi	0.00	-13.25335	-0.77605	37.18908	0.70429	-28.63745	-2.281
Asta 175 (24-19)	205	minimi	307.50	-13.25335	-0.77605	-5.84389	0.14567	33.42211	0.106
Asta 175 (24-19)	205	minimi	615.00	-13.25335	-0.77605	-47.18474	-0.12109	-48.54292	2.492
Asta 176 (19-34)	206	massimi	0.00	-4.31085	0.21389	28.40314	-0.70459	-7.85137	0.912
Asta 176 (19-34)	206	massimi	237.00	-4.31085	0.21389	7.42295	-0.70459	10.38364	0.405
Asta 176 (19-34)	206	massimi	474.00	-4.31085	0.21389	-13.55723	-0.70459	2.92341	-0.102
Asta 176 (19-34)	206	minimi	0.00	-4.31085	0.21389	18.14833	-1.35641	-32.26157	0.912
Asta 176 (19-34)	206	minimi	237.00	-4.31085	0.21389	-2.83186	-1.35641	10.10735	0.405
Asta 176 (19-34)	206	minimi	474.00	-4.31085	0.21389	-23.81204	-1.35641	-21.27456	-0.102
Asta 177 (39-24)	207	massimi	0.00	-12.40921	0.61708	6.6179	1.64536	7.56482	1.09
Asta 177 (39-24)	207	massimi	237.00	-12.40921	0.61708	-3.83147	1.23116	5.54189	-0.372
Asta 177 (39-24)	207	massimi	474.00	-12.40921	0.61708	-13.24769	1.00193	-14.92471	-1.835
Asta 177 (39-24)	207	minimi	0.00	-12.40921	0.61708	3.73309	1.37099	2.41612	1.09
Asta 177 (39-24)	207	minimi	237.00	-12.40921	0.61708	-6.71629	0.95679	3.79777	-0.372
Asta 177 (39-24)	207	minimi	474.00	-12.40921	0.61708	-16.1325	0.72756	-23.45837	-1.835
Asta 178 (44-29)	208	massimi	0.00	-1.2722	0.03362	31.63839	-0.15789	-6.15693	-0.453
Asta 178 (44-29)	208	massimi	237.00	-1.2722	0.03362	6.86276	0.26593	9.64347	-0.533
Asta 178 (44-29)	208	massimi	474.00	-1.2722	0.03362	-16.70232	0.47844	-2.27234	-0.612
Asta 178 (44-29)	208	minimi	0.00	-1.2722	0.03362	19.14723	-0.8567	-35.75815	-0.453
Asta 178 (44-29)	208	minimi	237.00	-1.2722	0.03362	-5.6284	-0.43288	9.60695	-0.533
Asta 178 (44-29)	208	minimi	474.00	-1.2722	0.03362	-29.19347	-0.22037	-31.87921	-0.612
Asta 179 (39-34)	209	massimi	0.00	-17.2481	-1.37085	65.85616	1.18193	-26.51364	-4.084
Asta 179 (39-34)	209	massimi	307.50	-17.2481	-1.37085	-4.08419	1.18193	56.80914	0.131
Asta 179 (39-34)	209	massimi	615.00	-17.2481	-1.37085	-74.02454	1.18193	-63.28311	4.347
Asta 179 (39-34)	209	minimi	0.00	-17.2481	-1.37085	60.79338	0.32901	-38.16538	-4.084
Asta 179 (39-34)	209	minimi	307.50	-17.2481	-1.37085	-9.14697	0.32901	52.89259	0.131
Asta 179 (39-34)	209	minimi	615.00	-17.2481	-1.37085	-79.08732	0.32901	-82.76757	4.347
Asta 180 (34-49)	210	massimi	0.00	-5.8304	0.81977	25.65614	0.18913	-2.33049	2.305
Asta 180 (34-49)	210	massimi	237.00	-5.8304	0.81977	4.67595	0.18913	9.16238	0.362
Asta 180 (34-49)	210	massimi	474.00	-5.8304	0.81977	-16.30424	0.18913	-4.64754	-1.58
Asta 180 (34-49)	210	minimi	0.00	-5.8304	0.81977	15.33509	-0.47514	-26.81154	2.305
Asta 180 (34-49)	210	minimi	237.00	-5.8304	0.81977	-5.64509	-0.47514	9.12176	0.362
Asta 180 (34-49)	210	minimi	474.00	-5.8304	0.81977	-26.62528	-0.47514	-29.08823	-1.58

(34-49)									
Asta 181 (54-39)	211	massimi	0.00	-24.31947	0.8304	7.95986	-0.18172	10.49023	1.263
Asta 181 (54-39)	211	massimi	237.00	-24.31947	0.8304	-2.48952	-0.59592	8.9438	-0.705
Asta 181 (54-39)	211	massimi	474.00	-24.31947	0.8304	-11.90573	-0.82514	-8.74371	-2.673
Asta 181 (54-39)	211	minimi	0.00	-24.31947	0.8304	4.64485	-0.42885	2.23912	1.263
Asta 181 (54-39)	211	minimi	237.00	-24.31947	0.8304	-5.80453	-0.84305	8.48558	-0.705
Asta 181 (54-39)	211	minimi	474.00	-24.31947	0.8304	-15.22074	-1.07228	-16.20832	-2.673
Asta 182 (74-44)	212	massimi	0.00	-1.56582	0.42037	31.4127	0.31719	-5.25634	0.857
Asta 182 (74-44)	212	massimi	237.00	-1.56582	0.42037	6.63707	0.74101	10.17027	-0.139
Asta 182 (74-44)	212	massimi	474.00	-1.56582	0.42037	-16.928	0.95352	-2.34524	-1.136
Asta 182 (74-44)	212	minimi	0.00	-1.56582	0.42037	18.98202	-0.3831	-34.76135	0.857
Asta 182 (74-44)	212	minimi	237.00	-1.56582	0.42037	-5.79361	0.04072	10.05111	-0.139
Asta 182 (74-44)	212	minimi	474.00	-1.56582	0.42037	-29.35869	0.25323	-31.76177	-1.136
Asta 183 (54-49)	213	massimi	0.00	-20.84041	-2.19675	64.37615	0.06648	-24.29026	-6.888
Asta 183 (54-49)	213	massimi	307.50	-20.84041	-2.19675	-5.5642	0.06648	55.33462	-0.133
Asta 183 (54-49)	213	massimi	615.00	-20.84041	-2.19675	-75.50456	0.06648	-69.3088	6.622
Asta 183 (54-49)	213	minimi	0.00	-20.84041	-2.19675	59.76909	-0.678	-35.09258	-6.888
Asta 183 (54-49)	213	minimi	307.50	-20.84041	-2.19675	-10.17126	-0.678	51.96256	-0.133
Asta 183 (54-49)	213	minimi	615.00	-20.84041	-2.19675	-80.11162	-0.678	-86.84717	6.622
Asta 184 (49-79)	214	massimi	0.00	-6.33174	1.40532	25.39105	0.70069	-1.11473	3.663
Asta 184 (49-79)	214	massimi	237.00	-6.33174	1.40532	4.41087	0.70069	9.61565	0.332
Asta 184 (49-79)	214	massimi	474.00	-6.33174	1.40532	-16.56932	0.70069	-4.82109	-2.998
Asta 184 (49-79)	214	minimi	0.00	-6.33174	1.40532	14.99539	0.04156	-25.72864	3.663
Asta 184 (49-79)	214	minimi	237.00	-6.33174	1.40532	-5.98479	0.04156	9.53382	0.332
Asta 184 (49-79)	214	minimi	474.00	-6.33174	1.40532	-26.96498	0.04156	-29.48269	-2.998
Asta 185 (84-54)	215	massimi	0.00	-54.6137	1.51338	9.89189	0.55927	10.74208	3.663
Asta 185 (84-54)	215	massimi	237.00	-54.6137	1.51338	-2.39424	0.14508	10.92869	0.077
Asta 185 (84-54)	215	massimi	474.00	-54.6137	1.51338	-13.6472	-0.08415	-8.58646	-3.51
Asta 185 (84-54)	215	minimi	0.00	-54.6137	1.51338	6.28536	0.30323	1.94526	3.663
Asta 185 (84-54)	215	minimi	237.00	-54.6137	1.51338	-6.00077	-0.11097	10.57251	0.077
Asta 185 (84-54)	215	minimi	474.00	-54.6137	1.51338	-17.25373	-0.3402	-16.88613	-3.51
Asta 186 (104-74)	216	massimi	0.00	-2.02612	0.13071	34.94285	-0.59874	-11.68156	1.162
Asta 186 (104-74)	216	massimi	237.00	-2.02612	0.13071	10.16722	-0.17493	10.98208	0.853
Asta 186 (104-74)	216	massimi	474.00	-2.02612	0.13071	-13.39786	0.03759	5.26142	0.543
Asta 186 (104-74)	216	minimi	0.00	-2.02612	0.13071	22.0508	-1.29811	-43.88768	1.162
Asta 186	216	minimi	237.00	-2.02612	0.13071	-2.72484	-0.87429	9.3272	0.853

(104-74)									
Asta 186 (104-74)	216	minimi	474.00	-2.02612	0.13071	-26.28991	-0.66178	-23.6411	0.543
Asta 187 (84-79)	217	massimi	0.00	-28.067	-2.45051	65.29376	-1.2592	-28.04038	-7.353
Asta 187 (84-79)	217	massimi	307.50	-28.067	-2.45051	-4.6466	-1.2592	54.52146	0.183
Asta 187 (84-79)	217	massimi	615.00	-28.067	-2.45051	-74.58695	-1.2592	-67.30022	7.718
Asta 187 (84-79)	217	minimi	0.00	-28.067	-2.45051	60.78948	-1.94804	-38.72627	-7.353
Asta 187 (84-79)	217	minimi	307.50	-28.067	-2.45051	-9.15088	-1.94804	51.35124	0.183
Asta 187 (84-79)	217	minimi	615.00	-28.067	-2.45051	-79.09123	-1.94804	-84.32089	7.718
Asta 188 (79-109)	218	massimi	0.00	-6.68431	1.87627	19.49845	1.92231	12.87603	4.667
Asta 188 (79-109)	218	massimi	237.00	-6.68431	1.87627	-1.48173	1.92231	10.00606	0.22
Asta 188 (79-109)	218	massimi	474.00	-6.68431	1.87627	-22.46192	1.92231	-18.37813	-4.226
Asta 188 (79-109)	218	minimi	0.00	-6.68431	1.87627	8.74955	1.23366	-11.3548	4.667
Asta 188 (79-109)	218	minimi	237.00	-6.68431	1.87627	-12.23064	1.23366	8.73988	0.22
Asta 188 (79-109)	218	minimi	474.00	-6.68431	1.87627	-33.21083	1.23366	-45.09729	-4.226
Asta 189 (114-84)	219	massimi	0.00	-61.71872	0.63109	12.77737	1.44155	0.924	-0.177
Asta 189 (114-84)	219	massimi	237.00	-61.71872	0.63109	4.27499	1.44155	10.9553	-1.672
Asta 189 (114-84)	219	massimi	474.00	-61.71872	0.63109	-4.22738	1.44155	10.72285	-3.168
Asta 189 (114-84)	219	minimi	0.00	-61.71872	0.63109	8.41277	1.15683	-9.54247	-0.177
Asta 189 (114-84)	219	minimi	237.00	-61.71872	0.63109	-0.0896	1.15683	10.49624	-1.672
Asta 189 (114-84)	219	minimi	474.00	-61.71872	0.63109	-8.59198	1.15683	0.49742	-3.168
Asta 190 (119-104)	220	massimi	0.00	15.691	-2.61107	-8.11153	10.27581	26.77682	-4.822
Asta 190 (119-104)	220	massimi	173.00	15.691	-2.61107	-27.09251	10.62112	-8.70733	-0.305
Asta 190 (119-104)	220	massimi	346.00	15.691	-2.61107	-44.59236	10.74317	-70.97375	4.212
Asta 190 (119-104)	220	minimi	0.00	15.691	-2.61107	-15.47597	8.53316	21.45579	-4.822
Asta 190 (119-104)	220	minimi	173.00	15.691	-2.61107	-34.45695	8.87847	-17.1306	-0.305
Asta 190 (119-104)	220	minimi	346.00	15.691	-2.61107	-51.9568	9.00052	-92.04656	4.212
Asta 191 (114-109)	221	massimi	0.00	-26.14894	-3.94382	58.23857	-2.79584	-25.11259	-13.064
Asta 191 (114-109)	221	massimi	307.50	-26.14894	-3.94382	-2.25539	-2.79584	49.22382	-0.936
Asta 191 (114-109)	221	massimi	615.00	-26.14894	-3.94382	-62.74935	-2.79584	-50.72743	11.191
Asta 191 (114-109)	221	minimi	0.00	-26.14894	-3.94382	53.2899	-3.79837	-36.85699	-13.064
Asta 191	221	minimi	307.50	-26.14894	-3.94382	-7.20406	-3.79837	45.73774	-0.936

(114-109)									
Asta 191 (114-109)	221	minimi	615.00	-26.14894	-3.94382	-67.69802	-3.79837	-69.41774	11.191
Asta 192 (109-124)	222	massimi	0.00	26.05315	3.29253	52.76871	-1.94187	-68.12998	8.15
Asta 192 (109-124)	222	massimi	127.00	26.05315	3.29253	32.87833	-1.94187	-23.57146	3.969
Asta 192 (109-124)	222	massimi	254.00	26.05315	3.29253	12.98795	-1.94187	-1.50072	-0.213
Asta 192 (109-124)	222	minimi	0.00	26.05315	3.29253	44.99443	-3.8026	-86.43565	8.15
Asta 192 (109-124)	222	minimi	127.00	26.05315	3.29253	25.10405	-3.8026	-32.09575	3.969
Asta 192 (109-124)	222	minimi	254.00	26.05315	3.29253	5.21367	-3.8026	-5.78966	-0.213
Asta 193 (144-114)	223	massimi	0.00	-31.22844	7.29123	20.85549	-0.6445	-17.93878	10.737
Asta 193 (144-114)	223	massimi	165.00	-31.22844	7.29123	16.21487	-0.6445	3.83482	-1.293
Asta 193 (144-114)	223	massimi	330.00	-31.22844	7.29123	11.57424	-0.6445	26.57144	-13.324
Asta 193 (144-114)	223	minimi	0.00	-31.22844	7.29123	15.39702	-1.31	-26.9403	10.737
Asta 193 (144-114)	223	minimi	165.00	-31.22844	7.29123	10.7564	-1.31	3.44571	-1.293
Asta 193 (144-114)	223	minimi	330.00	-31.22844	7.29123	6.11577	-1.31	17.55464	-13.324
Asta 194 (124-119)	224	massimi	0.00	5.93137	-2.00209	39.44075	-4.10111	-26.00072	-8.604
Asta 194 (124-119)	224	massimi	330.00	5.93137	-2.00209	6.4259	-4.10111	38.98872	-1.997
Asta 194 (124-119)	224	massimi	660.00	5.93137	-2.00209	-26.58895	-4.10111	4.34827	4.61
Asta 194 (124-119)	224	minimi	0.00	5.93137	-2.00209	36.10243	-4.45453	-38.12437	-8.604
Asta 194 (124-119)	224	minimi	330.00	5.93137	-2.00209	3.08758	-4.45453	37.22968	-1.997
Asta 194 (124-119)	224	minimi	660.00	5.93137	-2.00209	-29.92727	-4.45453	-5.68439	4.61
Asta 195 (119-129)	225	massimi	0.00	-14.75719	2.41771	62.19391	5.09925	-34.56229	9.274
Asta 195 (119-129)	225	massimi	330.00	-14.75719	2.41771	2.98718	4.54336	62.38492	1.295
Asta 195 (119-129)	225	massimi	660.00	-14.75719	2.41771	-55.15205	4.18495	-24.29564	-6.683
Asta 195 (119-129)	225	minimi	0.00	-14.75719	2.41771	59.07	4.4031	-45.18534	9.274

Asta 195 (119-129)	225	minimi	330.00	-14.75719	2.41771	-0.13672	3.84722	62.06904	1.295
Asta 195 (119-129)	225	minimi	660.00	-14.75719	2.41771	-58.27595	3.4888	-34.29047	-6.683
Asta 196 (124-139)	226	massimi	0.00	-9.50709	6.03876	31.01897	-5.1656	-0.8337	9.40
Asta 196 (124-139)	226	massimi	165.00	-9.50709	6.03876	2.7476	-5.1656	18.58713	-0.564
Asta 196 (124-139)	226	massimi	330.00	-9.50709	6.03876	-25.52378	-5.1656	-1.80167	-10.528
Asta 196 (124-139)	226	minimi	0.00	-9.50709	6.03876	25.89426	-5.84201	-10.88247	9.40
Asta 196 (124-139)	226	minimi	165.00	-9.50709	6.03876	-2.37711	-5.84201	16.95576	-0.564
Asta 196 (124-139)	226	minimi	330.00	-9.50709	6.03876	-30.64849	-5.84201	-8.69191	-10.528
Asta 197 (129-134)	227	massimi	0.00	-8.93737	-1.4971	14.46723	4.22945	-2.18015	-6.078
Asta 197 (129-134)	227	massimi	330.00	-8.93737	-1.4971	-0.04807	3.67356	13.50942	-1.138
Asta 197 (129-134)	227	massimi	660.00	-8.93737	-1.4971	-13.49587	3.31515	-10.30809	3.803
Asta 197 (129-134)	227	minimi	0.00	-8.93737	-1.4971	12.09526	3.87023	-11.16778	-6.078
Asta 197 (129-134)	227	minimi	330.00	-8.93737	-1.4971	-2.42005	3.31435	12.31125	-1.138
Asta 197 (129-134)	227	minimi	660.00	-8.93737	-1.4971	-15.86785	2.95593	-16.98089	3.803
Asta 198 (139-134)	228	massimi	0.00	-5.16761	2.58994	25.62757	4.00696	-1.45585	1.159
Asta 198 (139-134)	228	massimi	165.00	-5.16761	2.58994	-1.36506	4.00696	13.67081	-3.114
Asta 198 (139-134)	228	massimi	330.00	-5.16761	2.58994	-28.35768	4.00696	-10.86932	-7.387
Asta 198 (139-134)	228	minimi	0.00	-5.16761	2.58994	21.52444	3.3028	-6.37629	1.159
Asta 198 (139-134)	228	minimi	165.00	-5.16761	2.58994	-5.46818	3.3028	11.76003	-3.114
Asta 198 (139-134)	228	minimi	330.00	-5.16761	2.58994	-32.46081	3.3028	-19.51253	-7.387
Asta 199 (134-159)	229	massimi	0.00	-9.17344	-1.0982	33.025	9.96622	-3.62118	-3.533
Asta 199 (134-159)	229	massimi	244.50	-9.17344	-1.0982	-6.04593	1.33473	21.58784	-0.848
Asta 199 (134-159)	229	massimi	489.00	-9.17344	-1.0982	-41.2902	-3.51709	-37.14069	1.837
Asta 199 (134-159)	229	minimi	0.00	-9.17344	-1.0982	30.09125	9.01977	-10.73015	-3.533

159)									
Asta 199 (134- 159)	229	minimi	244.50	-9.17344	-1.0982	-8.97969	0.38828	21.29224	-0.848
Asta 199 (134- 159)	229	minimi	489.00	-9.17344	-1.0982	-44.22395	-4.46354	-44.44847	1.837
Asta 200 (139- 154)	230	massimi	0.00	-5.01373	-2.87522	36.78408	-0.50365	-8.41193	-10.863
Asta 200 (139- 154)	230	massimi	244.50	-5.01373	-2.87522	-1.91008	-0.50365	26.61511	-3.833
Asta 200 (139- 154)	230	massimi	489.00	-5.01373	-2.87522	-40.60424	-0.50365	-26.30962	3.196
Asta 200 (139- 154)	230	minimi	0.00	-5.01373	-2.87522	33.67035	-1.82776	-16.97166	-10.863
Asta 200 (139- 154)	230	minimi	244.50	-5.01373	-2.87522	-5.02382	-1.82776	25.65515	-3.833
Asta 200 (139- 154)	230	minimi	489.00	-5.01373	-2.87522	-43.71798	-1.82776	-32.98073	3.196
Asta 201 (149- 144)	231	massimi	0.00	-6.53105	-0.06997	13.956	-1.11103	-10.11928	2.594
Asta 201 (149- 144)	231	massimi	165.00	-6.53105	-0.06997	8.03663	-1.11103	-1.16581	2.709
Asta 201 (149- 144)	231	massimi	330.00	-6.53105	-0.06997	2.11725	-1.11103	6.40397	2.825
Asta 201 (149- 144)	231	minimi	0.00	-6.53105	-0.06997	8.36599	-1.35969	-20.11781	2.594
Asta 201 (149- 144)	231	minimi	165.00	-6.53105	-0.06997	2.44662	-1.35969	-2.00696	2.709
Asta 201 (149- 144)	231	minimi	330.00	-6.53105	-0.06997	-3.47276	-1.35969	-2.04635	2.825
Asta 202 (154- 144)	232	massimi	0.00	1.64307	-1.57595	33.2893	-2.64254	-16.24383	2.414
Asta 202 (154- 144)	232	massimi	190.00	1.64307	-1.57595	3.22022	-2.64254	13.50507	5.409
Asta 202 (154- 144)	232	massimi	380.00	1.64307	-1.57595	-26.84886	-2.64254	-8.94266	8.403
Asta 202 (154- 144)	232	minimi	0.00	1.64307	-1.57595	29.81097	-4.23208	-21.17987	2.414
Asta 202 (154- 144)	232	minimi	190.00	1.64307	-1.57595	-0.25812	-4.23208	11.83048	5.409
Asta 202 (154- 144)	232	minimi	380.00	1.64307	-1.57595	-30.3272	-4.23208	-17.22506	8.403
Asta 203 (159- 149)	233	massimi	0.00	-3.22081	-0.26477	31.01006	-3.24849	-28.17157	1.415
Asta 203 (159- 149)	233	massimi	190.00	-3.22081	-0.26477	8.78673	-3.59104	4.14062	1.919
Asta 203 (159- 149)	233	massimi	380.00	-3.22081	-0.26477	-12.43357	-3.75925	0.47893	2.422
Asta 203	233	minimi	0.00	-3.22081	-0.26477	27.16379	-4.6697	-33.57728	1.415

(159-149)									
Asta 203 (159-149)	233	minimi	190.00	-3.22081	-0.26477	4.94045	-5.01225	2.09888	1.919
Asta 203 (159-149)	233	minimi	380.00	-3.22081	-0.26477	-16.27985	-5.18046	-8.79398	2.422
Asta 204 (4-3)	234	massimi	0.00	-232.30036	36.05273	15.6662	1.11722	-5.75002	51.868
Asta 204 (4-3)	234	massimi	66.00	-235.27036	36.05273	15.6662	1.11722	-3.9588	28.545
Asta 204 (4-3)	234	massimi	132.00	-238.24036	36.05273	15.6662	1.11722	-1.1586	9.44
Asta 204 (4-3)	234	minimi	0.00	-252.0946	10.89524	2.6715	-0.64217	-24.89917	21.051
Asta 204 (4-3)	234	minimi	66.00	-255.0646	10.89524	2.6715	-0.64217	-14.58752	13.388
Asta 204 (4-3)	234	minimi	132.00	-258.0346	10.89524	2.6715	-0.64217	-5.28483	1.508
Asta 205 (9-8)	235	massimi	0.00	-243.167	-14.35485	17.72839	2.20041	-20.23819	-24.545
Asta 205 (9-8)	235	massimi	66.00	-246.137	-14.35485	17.72839	2.20041	-12.07556	-14.601
Asta 205 (9-8)	235	massimi	132.00	-249.107	-14.35485	17.72839	2.20041	-3.85684	-0.747
Asta 205 (9-8)	235	minimi	0.00	-263.89013	-39.61772	12.30024	0.44102	-31.15547	-55.487
Asta 205 (9-8)	235	minimi	66.00	-266.86013	-39.61772	12.30024	0.44102	-19.49921	-29.808
Asta 205 (9-8)	235	minimi	132.00	-269.83013	-39.61772	12.30024	0.44102	-7.89903	-8.041
Asta 206 (14-13)	236	massimi	0.00	-274.28978	37.66255	14.29161	1.84928	9.82949	33.209
Asta 206 (14-13)	236	massimi	66.00	-277.25978	37.66255	14.29161	1.84928	5.01785	9.037
Asta 206 (14-13)	236	massimi	132.00	-280.22978	37.66255	14.29161	1.84928	1.4653	-13.804
Asta 206 (14-13)	236	minimi	0.00	-286.55645	26.30809	-7.54614	0.08989	-20.93	19.415
Asta 206 (14-13)	236	minimi	66.00	-289.52645	26.30809	-7.54614	0.08989	-11.66635	1.366
Asta 206 (14-13)	236	minimi	132.00	-292.49645	26.30809	-7.54614	0.08989	-3.66179	-18.014
Asta 207 (19-18)	237	massimi	0.00	-313.69554	-11.07113	17.09807	3.20411	-8.58295	8.406
Asta 207 (19-18)	237	massimi	66.00	-316.66554	-11.07113	17.09807	3.20411	-4.95282	16.634
Asta 207 (19-18)	237	massimi	132.00	-319.63554	-11.07113	17.09807	3.20411	-0.99018	25.097
Asta 207 (19-18)	237	minimi	0.00	-321.69773	-25.26038	5.30062	1.44472	-28.2138	-17.244
Asta 207 (19-18)	237	minimi	66.00	-324.66773	-25.26038	5.30062	1.44472	-17.06078	-1.493
Asta 207 (19-18)	237	minimi	132.00	-327.63773	-25.26038	5.30062	1.44472	-6.24028	14.023
Asta 208 (24-23)	238	massimi	0.00	-52.29059	-7.02295	14.34054	0.58316	-14.18004	-15.141
Asta 208 (24-23)	238	massimi	66.00	-53.32184	-7.02295	14.34054	0.58316	-8.23647	-10.501
Asta 208 (24-23)	238	massimi	132.00	-54.35309	-7.02295	14.34054	0.58316	-1.80504	-5.356
Asta 208 (24-23)	238	minimi	0.00	-57.71517	-18.24958	8.92578	0.30939	-22.32562	-29.562
Asta 208 (24-23)	238	minimi	66.00	-58.74642	-18.24958	8.92578	0.30939	-12.91342	-17.522
Asta 208 (24-23)	238	minimi	132.00	-59.77767	-18.24958	8.92578	0.30939	-3.98907	-5.987
Asta 209 (29-28)	239	massimi	0.00	-284.07069	33.96054	10.52198	1.73012	17.02553	32.222

Asta 209 (29-28)	239	massimi	66.00	-287.04069	33.96054	10.52198	1.73012	9.21481	9.885
Asta 209 (29-28)	239	massimi	132.00	-290.01069	33.96054	10.52198	1.73012	2.6534	-11.699
Asta 209 (29-28)	239	minimi	0.00	-293.55465	25.00381	-12.0623	-0.02927	-14.71775	20.469
Asta 209 (29-28)	239	minimi	66.00	-296.52465	25.00381	-12.0623	-0.02927	-7.92364	3.889
Asta 209 (29-28)	239	minimi	132.00	-299.49465	25.00381	-12.0623	-0.02927	-2.37883	-13.443
Asta 210 (34-33)	240	massimi	0.00	-356.55795	-0.24116	9.51512	2.09672	4.45316	24.26
Asta 210 (34-33)	240	massimi	66.00	-359.52795	-0.24116	9.51512	2.09672	2.55961	24.891
Asta 210 (34-33)	240	massimi	132.00	-362.49795	-0.24116	9.51512	2.09672	1.05079	25.73
Asta 210 (34-33)	240	minimi	0.00	-360.31002	-16.3285	-3.00073	0.33733	-16.05198	1.495
Asta 210 (34-33)	240	minimi	66.00	-363.28002	-16.3285	-3.00073	0.33733	-9.85893	11.80
Asta 210 (34-33)	240	minimi	132.00	-366.25002	-16.3285	-3.00073	0.33733	-4.05061	21.897
Asta 211 (39-38)	241	massimi	0.00	-78.94341	-12.32118	14.62561	0.45797	-10.9087	-24.032
Asta 211 (39-38)	241	massimi	66.00	-79.97466	-12.32118	14.62561	0.45797	-6.61102	-15.899
Asta 211 (39-38)	241	massimi	132.00	-81.00591	-12.32118	14.62561	0.45797	-1.73934	-7.012
Asta 211 (39-38)	241	minimi	0.00	-85.18359	-21.74838	6.4532	0.1842	-22.51333	-35.733
Asta 211 (39-38)	241	minimi	66.00	-86.21484	-21.74838	6.4532	0.1842	-12.899	-21.381
Asta 211 (39-38)	241	minimi	132.00	-87.24609	-21.74838	6.4532	0.1842	-3.85866	-7.782
Asta 212 (44-43)	242	massimi	0.00	-283.60508	33.48039	10.17849	0.425	17.56319	31.538
Asta 212 (44-43)	242	massimi	66.00	-286.57508	33.48039	10.17849	0.425	9.54148	10.165
Asta 212 (44-43)	242	massimi	132.00	-289.54508	33.48039	10.17849	0.425	2.75548	-9.996
Asta 212 (44-43)	242	minimi	0.00	-293.80108	24.31531	-12.39262	-1.33439	-14.17068	21.545
Asta 212 (44-43)	242	minimi	66.00	-296.77108	24.31531	-12.39262	-1.33439	-7.61029	4.772
Asta 212 (44-43)	242	minimi	132.00	-299.74108	24.31531	-12.39262	-1.33439	-2.28561	-13.212
Asta 213 (49-48)	243	massimi	0.00	-361.32599	2.14462	6.33997	1.11271	9.75114	28.007
Asta 213 (49-48)	243	massimi	66.00	-364.29599	2.14462	6.33997	1.11271	5.7347	27.107
Asta 213 (49-48)	243	massimi	132.00	-367.26599	2.14462	6.33997	1.11271	2.05211	26.663
Asta 213 (49-48)	243	minimi	0.00	-365.16914	-12.17727	-6.25664	-0.64668	-10.89616	7.805
Asta 213 (49-48)	243	minimi	66.00	-368.13914	-12.17727	-6.25664	-0.64668	-6.82472	15.326
Asta 213 (49-48)	243	minimi	132.00	-371.10914	-12.17727	-6.25664	-0.64668	-3.08713	22.392
Asta 214 (54-53)	244	massimi	0.00	-80.97565	-15.34753	37.50659	2.25092	-11.49632	-24.391
Asta 214 (54-53)	244	massimi	66.00	-82.0069	-15.34753	37.50659	2.25092	0.84292	-14.257
Asta 214 (54-53)	244	massimi	132.00	-83.03815	-15.34753	37.50659	2.25092	22.19532	-2.212
Asta 214 (54-53)	244	minimi	0.00	-86.67522	-24.96732	18.68839	1.97715	-27.31713	-35.178
Asta 214 (54-53)	244	minimi	66.00	-87.70647	-24.96732	18.68839	1.97715	-2.56768	-18.704
Asta 214 (54-53)	244	minimi	132.00	-88.73772	-24.96732	18.68839	1.97715	13.1686	-4.142

Asta 215 (74-73)	245	massimi	0.00	-278.64333	34.59959	7.81979	0.32476	20.80365	32.399
Asta 215 (74-73)	245	massimi	66.00	-281.61333	34.59959	7.81979	0.32476	11.5785	10.608
Asta 215 (74-73)	245	massimi	132.00	-284.58333	34.59959	7.81979	0.32476	3.43151	-9.752
Asta 215 (74-73)	245	minimi	0.00	-289.55321	25.50317	-14.35315	-1.43463	-10.39143	23.407
Asta 215 (74-73)	245	minimi	66.00	-292.52321	25.50317	-14.35315	-1.43463	-5.47831	5.529
Asta 215 (74-73)	245	minimi	132.00	-295.49321	25.50317	-14.35315	-1.43463	-1.64333	-13.778
Asta 216 (79-78)	246	massimi	0.00	-350.48148	5.27387	1.2905	0.14257	17.71285	34.403
Asta 216 (79-78)	246	massimi	66.00	-353.45148	5.27387	1.2905	0.14257	10.51076	31.919
Asta 216 (79-78)	246	massimi	132.00	-356.42148	5.27387	1.2905	0.14257	3.50382	30.277
Asta 216 (79-78)	246	minimi	0.00	-356.52385	-8.03987	-11.1942	-1.61682	-2.79383	15.739
Asta 216 (79-78)	246	minimi	66.00	-359.49385	-8.03987	-11.1942	-1.61682	-2.12818	20.049
Asta 216 (79-78)	246	minimi	132.00	-362.46385	-8.03987	-11.1942	-1.61682	-1.65768	23.516
Asta 217 (84-83)	247	massimi	0.00	-74.50213	-23.65021	17.13396	0.65845	6.77552	-28.871
Asta 217 (84-83)	247	massimi	66.00	-75.53338	-23.65021	17.13396	0.65845	1.61353	-13.195
Asta 217 (84-83)	247	massimi	132.00	-76.56463	-23.65021	17.13396	0.65845	11.16759	5.581
Asta 217 (84-83)	247	minimi	0.00	-80.57771	-34.24836	-7.82494	0.38468	-11.44982	-39.632
Asta 217 (84-83)	247	minimi	66.00	-81.60896	-34.24836	-7.82494	0.38468	-0.14387	-17.095
Asta 217 (84-83)	247	minimi	132.00	-82.64021	-34.24836	-7.82494	0.38468	-3.55399	2.343
Asta 218 (104-103)	248	massimi	0.00	-231.96244	43.52254	1.17751	1.75187	18.78957	49.404
Asta 218 (104-103)	248	massimi	66.00	-234.93244	43.52254	1.17751	1.75187	10.95618	20.904
Asta 218 (104-103)	248	massimi	132.00	-237.90244	43.52254	1.17751	1.75187	4.03252	-4.957
Asta 218 (104-103)	248	minimi	0.00	-252.71591	27.6948	-11.98001	-0.00752	-1.23103	27.285
Asta 218 (104-103)	248	minimi	66.00	-255.68591	27.6948	-11.98001	-0.00752	-0.52729	8.781
Asta 218 (104-103)	248	minimi	132.00	-258.65591	27.6948	-11.98001	-0.00752	-0.73329	-12.361
Asta 219 (109-108)	249	massimi	0.00	-304.17108	6.76579	-7.06067	-0.04452	21.27476	30.257
Asta 219 (109-108)	249	massimi	66.00	-307.14108	6.76579	-7.06067	-0.04452	12.85528	26.092
Asta 219 (109-108)	249	massimi	132.00	-310.11108	6.76579	-7.06067	-0.04452	4.45623	23.23
Asta 219 (109-108)	249	minimi	0.00	-320.98614	-14.25227	-12.77038	-1.80391	8.78839	0.13
Asta 219 (109-108)	249	minimi	66.00	-323.95614	-14.25227	-12.77038	-1.80391	4.11938	9.237
Asta 219 (109-108)	249	minimi	132.00	-326.92614	-14.25227	-12.77038	-1.80391	-0.57007	17.04

108)									
Asta 220 (114- 113)	250	massimi	0.00	-55.26303	-15.06604	-21.50448	0.05345	32.30927	-23.221
Asta 220 (114- 113)	250	massimi	66.00	-56.29428	-15.06604	-21.50448	0.05345	1.05196	-13.256
Asta 220 (114- 113)	250	massimi	132.00	-57.32553	-15.06604	-21.50448	0.05345	-14.54436	-2.548
Asta 220 (114- 113)	250	minimi	0.00	-59.76557	-23.91156	-47.36372	-0.22032	13.84106	-34.196
Asta 220 (114- 113)	250	minimi	66.00	-60.79682	-23.91156	-47.36372	-0.22032	-0.35463	-18.435
Asta 220 (114- 113)	250	minimi	132.00	-61.82807	-23.91156	-47.36372	-0.22032	-30.21133	-3.418
Asta 221 (119- 118)	251	massimi	0.00	-75.3624	17.3489	17.04241	0.29589	-21.65878	26.758
Asta 221 (119- 118)	251	massimi	66.00	-76.39365	17.3489	17.04241	0.29589	-14.20953	15.308
Asta 221 (119- 118)	251	massimi	132.00	-77.4249	17.3489	17.04241	0.29589	-6.40294	4.247
Asta 221 (119- 118)	251	minimi	0.00	-78.83023	7.00577	11.254	0.02213	-30.72423	13.309
Asta 221 (119- 118)	251	minimi	66.00	-79.86148	7.00577	11.254	0.02213	-19.49785	8.684
Asta 221 (119- 118)	251	minimi	132.00	-80.89273	7.00577	11.254	0.02213	-8.6288	3.671
Asta 222 (124- 123)	252	massimi	0.00	-54.48658	-9.74399	6.9098	-0.8722	-3.2126	-17.402
Asta 222 (124- 123)	252	massimi	66.00	-55.51783	-9.74399	6.9098	-0.8722	-2.19622	-10.97
Asta 222 (124- 123)	252	massimi	132.00	-56.54908	-9.74399	6.9098	-0.8722	-0.78865	-4.015
Asta 222 (124- 123)	252	minimi	0.00	-59.76821	-18.42204	1.51514	-1.14596	-11.31474	-28.425
Asta 222 (124- 123)	252	minimi	66.00	-60.79946	-18.42204	1.51514	-1.14596	-6.77065	-16.268
Asta 222 (124- 123)	252	minimi	132.00	-61.83071	-18.42204	1.51514	-1.14596	-2.61776	-4.633
Asta 223 (129- 128)	253	massimi	0.00	-68.36136	9.87783	-10.01711	-0.4682	30.21024	15.319
Asta 223 (129- 128)	253	massimi	66.00	-69.39261	9.87783	-10.01711	-0.4682	19.34112	8.801
Asta 223 (129- 128)	253	massimi	132.00	-70.42385	9.87783	-10.01711	-0.4682	8.88161	2.316
Asta 223 (129- 128)	253	minimi	0.00	-71.62914	3.1615	-16.50306	-0.74197	20.2762	5.703
Asta 223 (129- 128)	253	minimi	66.00	-72.66039	3.1615	-16.50306	-0.74197	13.64201	3.615
Asta 223	253	minimi	132.00	-73.69164	3.1615	-16.50306	-0.74197	6.5982	1.493

(129-128)									
Asta 224 (134-133)	254	massimi	0.00	-74.93371	2.40321	-2.99286	0.08546	12.6957	3.659
Asta 224 (134-133)	254	massimi	66.00	-75.96496	2.40321	-2.99286	0.08546	7.34142	2.074
Asta 224 (134-133)	254	massimi	132.00	-76.99621	2.40321	-2.99286	0.08546	2.40495	0.587
Asta 224 (134-133)	254	minimi	0.00	-78.36474	-7.11096	-8.14017	-0.18831	4.97123	-9.287
Asta 224 (134-133)	254	minimi	66.00	-79.39599	-7.11096	-8.14017	-0.18831	2.97771	-4.595
Asta 224 (134-133)	254	minimi	132.00	-80.42724	-7.11096	-8.14017	-0.18831	0.56638	-0.001
Asta 225 (139-138)	255	massimi	0.00	-85.58353	5.16472	2.15856	-0.68706	7.67345	8.337
Asta 225 (139-138)	255	massimi	66.00	-86.61478	5.16472	2.15856	-0.68706	4.33455	4.93
Asta 225 (139-138)	255	massimi	132.00	-87.64603	5.16472	2.15856	-0.68706	1.54308	1.694
Asta 225 (139-138)	255	minimi	0.00	-88.19518	-2.03488	-5.08708	-0.96082	-2.6806	-1.271
Asta 225 (139-138)	255	minimi	66.00	-89.22643	-2.03488	-5.08708	-0.96082	-1.27453	0.071
Asta 225 (139-138)	255	minimi	132.00	-90.25768	-2.03488	-5.08708	-0.96082	-0.41589	1.241
Asta 226 (144-143)	256	massimi	0.00	-44.99014	-2.35106	-16.31611	0.62723	29.10798	-8.363
Asta 226 (144-143)	256	massimi	66.00	-46.02139	-2.35106	-16.31611	0.62723	5.19839	-6.811
Asta 226 (144-143)	256	massimi	132.00	-47.05264	-2.35106	-16.31611	0.62723	-8.2818	-5.218
Asta 226 (144-143)	256	minimi	0.00	-49.79394	-9.0852	-36.23059	0.35347	13.2541	-17.289
Asta 226 (144-143)	256	minimi	66.00	-50.82519	-9.0852	-36.23059	0.35347	2.48288	-11.292
Asta 226 (144-143)	256	minimi	132.00	-51.85644	-9.0852	-36.23059	0.35347	-18.71775	-5.337
Asta 227 (149-148)	257	massimi	0.00	-22.45891	0.15037	-3.9026	-0.0419	14.95026	-0.783
Asta 227 (149-148)	257	massimi	66.00	-23.49016	0.15037	-3.9026	-0.0419	8.58266	-0.881
Asta 227 (149-148)	257	massimi	132.00	-24.52141	0.15037	-3.9026	-0.0419	2.72359	-0.933
Asta 227 (149-148)	257	minimi	0.00	-28.57651	-6.45205	-9.68904	-0.3025	6.34713	-10.003
Asta 227 (149-148)	257	minimi	66.00	-29.60776	-6.45205	-9.68904	-0.3025	3.74425	-5.746

Asta 227 (149-148)	257	minimi	132.00	-30.63901	-6.45205	-9.68904	-0.3025	0.63283	-1.534
Asta 228 (154-153)	258	massimi	0.00	-73.43042	-2.21805	-0.53066	0.91897	3.72295	-5.131
Asta 228 (154-153)	258	massimi	66.00	-74.46167	-2.21805	-0.53066	0.91897	2.37528	-3.666
Asta 228 (154-153)	258	massimi	132.00	-75.49292	-2.21805	-0.53066	0.91897	1.17671	-1.904
Asta 228 (154-153)	258	minimi	0.00	-73.99207	-11.09555	-2.06787	0.64521	0.82026	-16.735
Asta 228 (154-153)	258	minimi	66.00	-75.02332	-11.09555	-2.06787	0.64521	0.4529	-9.413
Asta 228 (154-153)	258	minimi	132.00	-76.05457	-11.09555	-2.06787	0.64521	-0.06357	-2.389
Asta 229 (159-158)	259	massimi	0.00	-70.75498	-1.38795	-0.33982	0.55175	1.1408	-3.767
Asta 229 (159-158)	259	massimi	66.00	-71.78623	-1.38795	-0.33982	0.55175	0.29862	-2.85
Asta 229 (159-158)	259	massimi	132.00	-72.81748	-1.38795	-0.33982	0.55175	-0.38819	-1.81
Asta 229 (159-158)	259	minimi	0.00	-72.93303	-10.51731	-1.32704	0.29115	-1.20325	-16.073
Asta 229 (159-158)	259	minimi	66.00	-73.96428	-10.51731	-1.32704	0.29115	-1.46119	-9.132
Asta 229 (159-158)	259	minimi	132.00	-74.99553	-10.51731	-1.32704	0.29115	-1.8745	-2.315
Asta 230 (5-10)	260	massimi	0.00	-64.12013	0.54997	120.99923	1.66667	-87.41047	3.188
Asta 230 (5-10)	260	massimi	630.00	-64.12013	0.54997	5.14853	1.66667	232.60018	-0.277
Asta 230 (5-10)	260	massimi	1260.00	-64.12013	0.54997	-110.70217	1.66667	-99.89945	-3.742
Asta 230 (5-10)	260	minimi	0.00	-64.12013	0.54997	108.71627	0.04336	-164.7709	3.188
Asta 230 (5-10)	260	minimi	630.00	-64.12013	0.54997	-7.13442	0.04336	232.5667	-0.277
Asta 230 (5-10)	260	minimi	1260.00	-64.12013	0.54997	-122.98512	0.04336	-177.30421	-3.742
Asta 231 (15-5)	261	massimi	0.00	-8.80993	-1.61298	5.56837	-2.21287	7.71945	-3.501
Asta 231 (15-5)	261	massimi	237.00	-8.80993	-1.61298	0.23587	-2.21287	2.55475	0.322
Asta 231 (15-5)	261	massimi	474.00	-8.80993	-1.61298	-5.09663	-2.21287	-3.20563	4.145
Asta 231 (15-5)	261	minimi	0.00	-8.80993	-1.61298	0.22754	-2.37795	-4.3237	-3.501
Asta 231 (15-5)	261	minimi	237.00	-8.80993	-1.61298	-5.10496	-2.37795	1.93929	0.322
Asta 231 (15-5)	261	minimi	474.00	-8.80993	-1.61298	-10.43746	-2.37795	-16.4781	4.145
Asta 232 (5-165)	262	massimi	0.00	0.00	0.00	25.3249	0.00	-16.2617	0.00
Asta 232 (5-165)	262	massimi	65.00	0.00	0.00	12.7136	0.00	-4.03218	0.00
Asta 232 (5-165)	262	massimi	130.00	0.00	0.00	0.1023	0.00	0.00	0.00
Asta 232 (5-165)	262	minimi	0.00	0.00	0.00	25.1203	0.00	-16.52768	0.00

Asta 232 (5-165)	262	minimi	65.00	0.00	0.00	12.509	0.00	-4.16517	0.00
Asta 232 (5-165)	262	minimi	130.00	0.00	0.00	-0.1023	0.00	0.00	0.00
Asta 233 (20-10)	263	massimi	0.00	-11.68797	-1.26828	2.73777	1.46403	14.52941	-2.729
Asta 233 (20-10)	263	massimi	237.00	-11.68797	-1.26828	-2.59473	1.46403	2.43171	0.277
Asta 233 (20-10)	263	massimi	474.00	-11.68797	-1.26828	-7.92723	1.46403	-10.03747	3.283
Asta 233 (20-10)	263	minimi	0.00	-11.68797	-1.26828	-2.70511	1.34032	2.2615	-2.729
Asta 233 (20-10)	263	minimi	237.00	-11.68797	-1.26828	-8.03761	1.34032	1.79858	0.277
Asta 233 (20-10)	263	minimi	474.00	-11.68797	-1.26828	-13.37011	1.34032	-23.56892	3.283
Asta 234 (10-175)	264	massimi	0.00	0.00	0.00	25.32685	0.00	-16.25917	0.00
Asta 234 (10-175)	264	massimi	65.00	0.00	0.00	12.71555	0.00	-4.03091	0.00
Asta 234 (10-175)	264	massimi	130.00	0.00	0.00	0.10425	0.00	0.00	0.00
Asta 234 (10-175)	264	minimi	0.00	0.00	0.00	25.11835	0.00	-16.53021	0.00
Asta 234 (10-175)	264	minimi	65.00	0.00	0.00	12.50705	0.00	-4.16643	0.00
Asta 234 (10-175)	264	minimi	130.00	0.00	0.00	-0.10425	0.00	0.00	0.00
Asta 235 (15-20)	265	massimi	0.00	-32.598	0.95612	185.00169	1.81533	-114.603	5.811
Asta 235 (15-20)	265	massimi	630.00	-32.598	0.95612	4.1413	1.81533	417.06075	-0.213
Asta 235 (15-20)	265	massimi	1260.00	-32.598	0.95612	-176.7191	1.81533	-126.55998	-6.236
Asta 235 (15-20)	265	minimi	0.00	-32.598	0.95612	174.60877	0.44873	-178.74032	5.811
Asta 235 (15-20)	265	minimi	630.00	-32.598	0.95612	-6.25163	0.44873	415.72133	-0.213
Asta 235 (15-20)	265	minimi	1260.00	-32.598	0.95612	-187.11203	0.44873	-193.37356	-6.236
Asta 236 (30-15)	266	massimi	0.00	-13.28992	-1.42866	8.62678	-0.31855	1.41747	-3.677
Asta 236 (30-15)	266	massimi	237.00	-13.28992	-1.42866	3.29428	-0.31855	2.5378	-0.291
Asta 236 (30-15)	266	massimi	474.00	-13.28992	-1.42866	-2.03822	-0.31855	4.01563	3.095
Asta 236 (30-15)	266	minimi	0.00	-13.28992	-1.42866	3.1139	-0.42904	-11.59928	-3.677
Asta 236 (30-15)	266	minimi	237.00	-13.28992	-1.42866	-2.2186	-0.42904	2.46777	-0.291
Asta 236 (30-15)	266	minimi	474.00	-13.28992	-1.42866	-7.5511	-0.42904	-9.09872	3.095
Asta 237 (15-170)	267	massimi	0.00	0.00	0.00	37.63241	0.00	-24.27345	0.00
Asta 237 (15-170)	267	massimi	65.00	0.00	0.00	18.86431	0.00	-6.03709	0.00
Asta 237 (15-170)	267	massimi	130.00	0.00	0.00	0.09621	0.00	0.00	0.00
Asta 237 (15-170)	267	minimi	0.00	0.00	0.00	37.43998	0.00	-24.52361	0.00
Asta 237 (15-170)	267	minimi	65.00	0.00	0.00	18.67188	0.00	-6.16217	0.00
Asta 237 (15-170)	267	minimi	130.00	0.00	0.00	-0.09621	0.00	0.00	0.00
Asta 238 (35-20)	268	massimi	0.00	-19.53349	-1.20971	7.18466	-0.13405	4.64674	-3.271
Asta 238 (35-20)	268	massimi	237.00	-19.53349	-1.20971	1.85216	-0.13405	2.80762	-0.404
Asta 238 (35-20)	268	massimi	474.00	-19.53349	-1.20971	-3.48034	-0.13405	0.84556	2.463

Asta 238 (35-20)	268	minimi	0.00	-19.53349	-1.20971	1.87004	-0.25758	-7.93373	-3.271
Asta 238 (35-20)	268	minimi	237.00	-19.53349	-1.20971	-3.46247	-0.25758	2.727	-0.404
Asta 238 (35-20)	268	minimi	474.00	-19.53349	-1.20971	-8.79497	-0.25758	-11.76539	2.463
Asta 239 (20-180)	269	massimi	0.00	0.00	0.00	37.62572	0.00	-24.28216	0.00
Asta 239 (20-180)	269	massimi	65.00	0.00	0.00	18.85762	0.00	-6.04145	0.00
Asta 239 (20-180)	269	massimi	130.00	0.00	0.00	0.08952	0.00	0.00	0.00
Asta 239 (20-180)	269	minimi	0.00	0.00	0.00	37.44668	0.00	-24.5149	0.00
Asta 239 (20-180)	269	minimi	65.00	0.00	0.00	18.67858	0.00	-6.15782	0.00
Asta 239 (20-180)	269	minimi	130.00	0.00	0.00	-0.08952	0.00	0.00	0.00
Asta 240 (30-35)	270	massimi	0.00	-27.51041	0.47717	183.17506	1.27612	-110.51321	2.955
Asta 240 (30-35)	270	massimi	630.00	-27.51041	0.47717	2.31467	1.27612	422.43255	-0.051
Asta 240 (30-35)	270	massimi	1260.00	-27.51041	0.47717	-178.54573	1.27612	-132.69575	-3.057
Asta 240 (30-35)	270	minimi	0.00	-27.51041	0.47717	174.87253	-0.12339	-161.86058	2.955
Asta 240 (30-35)	270	minimi	630.00	-27.51041	0.47717	-5.98786	-0.12339	421.47303	-0.051
Asta 240 (30-35)	270	minimi	1260.00	-27.51041	0.47717	-186.84826	-0.12339	-185.9603	-3.057
Asta 241 (45-30)	271	massimi	0.00	-12.56967	-0.01211	8.56259	-0.00597	1.31715	-0.647
Asta 241 (45-30)	271	massimi	237.00	-12.56967	-0.01211	3.23009	-0.00597	2.1739	-0.619
Asta 241 (45-30)	271	massimi	474.00	-12.56967	-0.01211	-2.10241	-0.00597	3.50509	-0.59
Asta 241 (45-30)	271	minimi	0.00	-12.56967	-0.01211	3.02517	-0.11646	-11.80556	-0.647
Asta 241 (45-30)	271	minimi	237.00	-12.56967	-0.01211	-2.30733	-0.11646	2.16268	-0.619
Asta 241 (45-30)	271	minimi	474.00	-12.56967	-0.01211	-7.63983	-0.11646	-9.61958	-0.59
Asta 242 (30-190)	272	massimi	0.00	0.00	0.00	37.60672	0.00	-24.30686	0.00
Asta 242 (30-190)	272	massimi	65.00	0.00	0.00	18.83862	0.00	-6.0538	0.00
Asta 242 (30-190)	272	massimi	130.00	0.00	0.00	0.07052	0.00	0.00	0.00
Asta 242 (30-190)	272	minimi	0.00	0.00	0.00	37.46568	0.00	-24.4902	0.00
Asta 242 (30-190)	272	minimi	65.00	0.00	0.00	18.69758	0.00	-6.14547	0.00
Asta 242 (30-190)	272	minimi	130.00	0.00	0.00	-0.07052	0.00	0.00	0.00
Asta 243 (50-35)	273	massimi	0.00	-19.42312	0.16188	8.45644	-0.00529	1.30251	-0.169
Asta 243 (50-35)	273	massimi	237.00	-19.42312	0.16188	3.12394	-0.00529	2.33724	-0.553
Asta 243 (50-35)	273	massimi	474.00	-19.42312	0.16188	-2.20856	-0.00529	3.41993	-0.936
Asta 243 (50-35)	273	minimi	0.00	-19.42312	0.16188	3.09905	-0.11995	-11.38755	-0.169
Asta 243 (50-35)	273	minimi	237.00	-19.42312	0.16188	-2.23345	-0.11995	2.3262	-0.553
Asta 243 (50-35)	273	minimi	474.00	-19.42312	0.16188	-7.56596	-0.11995	-9.28407	-0.936
Asta 244 (35-185)	274	massimi	0.00	0.00	0.00	37.60901	0.00	-24.30388	0.00
Asta 244 (35-185)	274	massimi	65.00	0.00	0.00	18.84091	0.00	-6.05231	0.00

Asta 244 (35-185)	274	massimi	130.00	0.00	0.00	0.07281	0.00	0.00	0.00
Asta 244 (35-185)	274	minimi	0.00	0.00	0.00	37.46339	0.00	-24.49318	0.00
Asta 244 (35-185)	274	minimi	65.00	0.00	0.00	18.69529	0.00	-6.14696	0.00
Asta 244 (35-185)	274	minimi	130.00	0.00	0.00	-0.07281	0.00	0.00	0.00
Asta 245 (45-50)	275	massimi	0.00	-27.51472	-0.32735	182.58715	0.93285	-111.62093	-2.208
Asta 245 (45-50)	275	massimi	630.00	-27.51472	-0.32735	1.72676	0.93285	422.37696	-0.146
Asta 245 (45-50)	275	massimi	1260.00	-27.51472	-0.32735	-179.13364	0.93285	-136.45726	1.916
Asta 245 (45-50)	275	minimi	0.00	-27.51472	-0.32735	175.04354	-0.46673	-158.21444	-2.208
Asta 245 (45-50)	275	minimi	630.00	-27.51472	-0.32735	-5.81685	-0.46673	421.44055	-0.146
Asta 245 (45-50)	275	minimi	1260.00	-27.51472	-0.32735	-186.67725	-0.46673	-184.91333	1.916
Asta 246 (75-45)	276	massimi	0.00	-10.84163	0.98426	8.44598	0.17624	1.65966	2.038
Asta 246 (75-45)	276	massimi	237.00	-10.84163	0.98426	3.11348	0.17624	2.32688	-0.295
Asta 246 (75-45)	276	massimi	474.00	-10.84163	0.98426	-2.21902	0.17624	3.36205	-2.628
Asta 246 (75-45)	276	minimi	0.00	-10.84163	0.98426	2.94104	0.07147	-11.39587	2.038
Asta 246 (75-45)	276	minimi	237.00	-10.84163	0.98426	-2.39146	0.07147	2.28612	-0.295
Asta 246 (75-45)	276	minimi	474.00	-10.84163	0.98426	-7.72397	0.07147	-9.6759	-2.628
Asta 247 (45-195)	277	massimi	0.00	0.00	0.00	37.70459	0.00	-24.17962	0.00
Asta 247 (45-195)	277	massimi	65.00	0.00	0.00	18.93649	0.00	-5.99018	0.00
Asta 247 (45-195)	277	massimi	130.00	0.00	0.00	0.16839	0.00	0.00	0.00
Asta 247 (45-195)	277	minimi	0.00	0.00	0.00	37.36781	0.00	-24.61744	0.00
Asta 247 (45-195)	277	minimi	65.00	0.00	0.00	18.59971	0.00	-6.20909	0.00
Asta 247 (45-195)	277	minimi	130.00	0.00	0.00	-0.16839	0.00	0.00	0.00
Asta 248 (80-50)	278	massimi	0.00	-17.09405	1.23433	8.83619	0.04911	0.56791	2.619
Asta 248 (80-50)	278	massimi	237.00	-17.09405	1.23433	3.50369	0.04911	2.48944	-0.306
Asta 248 (80-50)	278	massimi	474.00	-17.09405	1.23433	-1.82881	0.04911	4.46938	-3.231
Asta 248 (80-50)	278	minimi	0.00	-17.09405	1.23433	3.46959	-0.06663	-12.13813	2.619
Asta 248 (80-50)	278	minimi	237.00	-17.09405	1.23433	-1.86291	-0.06663	2.46703	-0.306
Asta 248 (80-50)	278	minimi	474.00	-17.09405	1.23433	-7.19541	-0.06663	-8.26228	-3.231
Asta 249 (50-200)	279	massimi	0.00	0.00	0.00	37.57592	0.00	-24.3469	0.00
Asta 249 (50-200)	279	massimi	65.00	0.00	0.00	18.80782	0.00	-6.07382	0.00
Asta 249 (50-200)	279	massimi	130.00	0.00	0.00	0.03972	0.00	0.00	0.00
Asta 249 (50-200)	279	minimi	0.00	0.00	0.00	37.49648	0.00	-24.45016	0.00
Asta 249 (50-200)	279	minimi	65.00	0.00	0.00	18.72838	0.00	-6.12545	0.00
Asta 249 (50-200)	279	minimi	130.00	0.00	0.00	-0.03972	0.00	0.00	0.00
Asta 250 (75-80)	280	massimi	0.00	-29.83991	-0.74236	182.91317	0.61816	-119.06022	-4.807

Asta 250 (75-80)	280	massimi	630.00	-29.83991	-0.74236	2.05277	0.61816	418.20536	-0.13
Asta 250 (75-80)	280	massimi	1260.00	-29.83991	-0.74236	-178.80762	0.61816	-138.599	4.547
Asta 250 (75-80)	280	minimi	0.00	-29.83991	-0.74236	175.57479	-0.87354	-164.46405	-4.807
Asta 250 (75-80)	280	minimi	630.00	-29.83991	-0.74236	-5.28561	-0.87354	417.324	-0.13
Asta 250 (75-80)	280	minimi	1260.00	-29.83991	-0.74236	-186.14601	-0.87354	-185.65902	4.547
Asta 251 (105-75)	281	massimi	0.00	-6.37229	1.48539	9.97893	1.91364	-1.26313	4.031
Asta 251 (105-75)	281	massimi	237.00	-6.37229	1.48539	4.64643	1.91364	2.57258	0.511
Asta 251 (105-75)	281	massimi	474.00	-6.37229	1.48539	-0.68608	1.91364	6.63024	-3.01
Asta 251 (105-75)	281	minimi	0.00	-6.37229	1.48539	4.28441	1.83619	-15.39386	4.031
Asta 251 (105-75)	281	minimi	237.00	-6.37229	1.48539	-1.04809	1.83619	1.93651	0.511
Asta 251 (105-75)	281	minimi	474.00	-6.37229	1.48539	-6.38059	1.83619	-6.23111	-3.01
Asta 252 (75-205)	282	massimi	0.00	0.00	0.00	37.68318	0.00	-24.20745	0.00
Asta 252 (75-205)	282	massimi	65.00	0.00	0.00	18.91508	0.00	-6.00409	0.00
Asta 252 (75-205)	282	massimi	130.00	0.00	0.00	0.14698	0.00	0.00	0.00
Asta 252 (75-205)	282	minimi	0.00	0.00	0.00	37.38922	0.00	-24.58961	0.00
Asta 252 (75-205)	282	minimi	65.00	0.00	0.00	18.62112	0.00	-6.19517	0.00
Asta 252 (75-205)	282	minimi	130.00	0.00	0.00	-0.14698	0.00	0.00	0.00
Asta 253 (110-80)	283	massimi	0.00	-10.08147	1.15328	11.9578	-1.39835	-6.03906	2.749
Asta 253 (110-80)	283	massimi	237.00	-10.08147	1.15328	6.62529	-1.39835	2.4802	0.016
Asta 253 (110-80)	283	massimi	474.00	-10.08147	1.15328	1.29279	-1.39835	11.19719	-2.717
Asta 253 (110-80)	283	minimi	0.00	-10.08147	1.15328	6.25918	-1.47356	-20.20674	2.749
Asta 253 (110-80)	283	minimi	237.00	-10.08147	1.15328	0.92668	-1.47356	1.8102	0.016
Asta 253 (110-80)	283	minimi	474.00	-10.08147	1.15328	-4.40582	-1.47356	-1.64665	-2.717
Asta 254 (80-210)	284	massimi	0.00	0.00	0.00	37.67764	0.00	-24.21466	0.00
Asta 254 (80-210)	284	massimi	65.00	0.00	0.00	18.90954	0.00	-6.0077	0.00
Asta 254 (80-210)	284	massimi	130.00	0.00	0.00	0.14144	0.00	0.00	0.00
Asta 254 (80-210)	284	minimi	0.00	0.00	0.00	37.39476	0.00	-24.5824	0.00
Asta 254 (80-210)	284	minimi	65.00	0.00	0.00	18.62666	0.00	-6.19157	0.00
Asta 254 (80-210)	284	minimi	130.00	0.00	0.00	-0.14144	0.00	0.00	0.00
Asta 255 (105-110)	285	massimi	0.00	-52.91577	-0.38609	123.99916	0.98928	-97.59766	-1.854
Asta 255 (105-110)	285	massimi	630.00	-52.91577	-0.38609	2.28946	0.98928	252.68187	0.579
Asta 255 (105-110)	285	massimi	1260.00	-52.91577	-0.38609	-119.42024	0.98928	-116.45562	3.011
Asta 255 (105-110)	285	minimi	0.00	-52.91577	-0.38609	116.32784	-0.78526	-145.30378	-1.854

Asta 255 (105-110)	285	minimi	630.00	-52.91577	-0.38609	-5.38186	-0.78526	251.70568	0.579
Asta 255 (105-110)	285	minimi	1260.00	-52.91577	-0.38609	-127.09155	-0.78526	-165.41003	3.011
Asta 256 (105-215)	286	massimi	0.00	0.00	0.00	25.33661	0.00	-16.24648	0.00
Asta 256 (105-215)	286	massimi	65.00	0.00	0.00	12.72531	0.00	-4.02457	0.00
Asta 256 (105-215)	286	massimi	130.00	0.00	0.00	0.11401	0.00	0.00	0.00
Asta 256 (105-215)	286	minimi	0.00	0.00	0.00	25.10859	0.00	-16.5429	0.00
Asta 256 (105-215)	286	minimi	65.00	0.00	0.00	12.49729	0.00	-4.17278	0.00
Asta 256 (105-215)	286	minimi	130.00	0.00	0.00	-0.11401	0.00	0.00	0.00
Asta 257 (110-220)	287	massimi	0.00	0.00	0.00	25.29837	0.00	-16.29619	0.00
Asta 257 (110-220)	287	massimi	65.00	0.00	0.00	12.68707	0.00	-4.04942	0.00
Asta 257 (110-220)	287	massimi	130.00	0.00	0.00	0.07577	0.00	0.00	0.00
Asta 257 (110-220)	287	minimi	0.00	0.00	0.00	25.14683	0.00	-16.49319	0.00
Asta 257 (110-220)	287	minimi	65.00	0.00	0.00	12.53553	0.00	-4.14792	0.00
Asta 257 (110-220)	287	minimi	130.00	0.00	0.00	-0.07577	0.00	0.00	0.00
Asta 258 (5-4)	288	massimi	0.00	-141.16711	75.10783	13.48809	1.55962	-3.60135	150.639
Asta 258 (5-4)	288	massimi	145.00	-147.69211	75.10783	13.48809	1.55962	2.32342	41.815
Asta 258 (5-4)	288	massimi	290.00	-154.21711	75.10783	13.48809	1.55962	21.36342	-62.867
Asta 258 (5-4)	288	minimi	0.00	-154.52768	49.90648	3.03183	0.35393	-17.79241	73.344
Asta 258 (5-4)	288	minimi	145.00	-161.05268	49.90648	3.03183	0.35393	0.23671	0.897
Asta 258 (5-4)	288	minimi	290.00	-167.57768	49.90648	3.03183	0.35393	5.15059	-75.692
Asta 259 (10-9)	289	massimi	0.00	-146.13754	-52.77389	17.75829	0.1439	-8.99085	-84.961
Asta 259 (10-9)	289	massimi	145.00	-152.66254	-52.77389	17.75829	0.1439	2.91607	-8.356
Asta 259 (10-9)	289	massimi	290.00	-159.18754	-52.77389	17.75829	0.1439	28.60132	72.525
Asta 259 (10-9)	289	minimi	0.00	-159.29229	-78.00294	6.71758	-1.06179	-22.9055	-162.258
Asta 259 (10-9)	289	minimi	145.00	-165.81729	-78.00294	6.71758	-1.06179	0.67759	-49.237
Asta 259 (10-9)	289	minimi	290.00	-172.34229	-78.00294	6.71758	-1.06179	10.48236	59.509
Asta 260 (15-14)	290	massimi	0.00	-219.15741	41.93655	12.84413	1.38805	7.59619	152.267
Asta 260 (15-14)	290	massimi	145.00	-225.68241	41.93655	12.84413	1.38805	0.55874	91.506
Asta 260	290	massimi	290.00	-232.20741	41.93655	12.84413	1.38805	18.91713	32.123

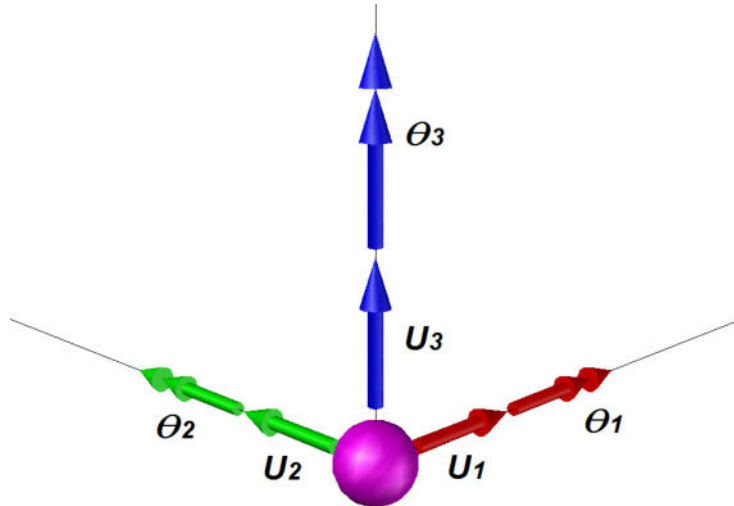
(15-14)									
Asta 260 (15-14)	290	minimi	0.00	-230.91069	23.6281	-5.79638	0.18236	-18.3391	88.436
Asta 260 (15-14)	290	minimi	145.00	-237.43569	23.6281	-5.79638	0.18236	-1.08241	54.128
Asta 260 (15-14)	290	minimi	290.00	-243.96069	23.6281	-5.79638	0.18236	-9.22158	18.442
Asta 261 (20-19)	291	massimi	0.00	-219.5857	-21.19366	18.09323	-0.44159	-0.1534	-100.661
Asta 261 (20-19)	291	massimi	145.00	-226.1107	-21.19366	18.09323	-0.44159	0.95601	-69.882
Asta 261 (20-19)	291	massimi	290.00	-232.6357	-21.19366	18.09323	-0.44159	27.17887	-35.461
Asta 261 (20-19)	291	minimi	0.00	-231.62579	-43.88521	-0.48993	-1.64728	-25.2933	-167.279
Asta 261 (20-19)	291	minimi	145.00	-238.15079	-43.88521	-0.48993	-1.64728	-0.87793	-103.694
Asta 261 (20-19)	291	minimi	290.00	-244.67579	-43.88521	-0.48993	-1.64728	-1.57602	-43.751
Asta 262 (30-29)	292	massimi	0.00	-222.74231	36.00081	8.45954	0.73446	14.90534	137.081
Asta 262 (30-29)	292	massimi	145.00	-229.26731	36.00081	8.45954	0.73446	0.57883	84.901
Asta 262 (30-29)	292	massimi	290.00	-235.79231	36.00081	8.45954	0.73446	12.55142	33.463
Asta 262 (30-29)	292	minimi	0.00	-231.86061	21.85311	-10.8544	-0.47123	-11.99076	85.871
Asta 262 (30-29)	292	minimi	145.00	-238.38561	21.85311	-10.8544	-0.47123	-1.1368	54.163
Asta 262 (30-29)	292	minimi	290.00	-244.91061	21.85311	-10.8544	-0.47123	-16.58194	21.712
Asta 263 (35-34)	293	massimi	0.00	-225.51568	-17.46335	9.8231	-0.11976	12.06143	-108.428
Asta 263 (35-34)	293	massimi	145.00	-232.04068	-17.46335	9.8231	-0.11976	0.77437	-83.089
Asta 263 (35-34)	293	massimi	290.00	-238.56568	-17.46335	9.8231	-0.11976	15.00334	-56.482
Asta 263 (35-34)	293	minimi	0.00	-233.77992	-34.81428	-9.08951	-1.32545	-13.48584	-161.698
Asta 263 (35-34)	293	minimi	145.00	-240.30492	-34.81428	-9.08951	-1.32545	-1.13507	-111.234
Asta 263 (35-34)	293	minimi	290.00	-246.82992	-34.81428	-9.08951	-1.32545	-14.30033	-62.038
Asta 264 (45-44)	294	massimi	0.00	-222.23141	35.0535	8.26326	0.8308	15.31211	133.648
Asta 264 (45-44)	294	massimi	145.00	-228.75641	35.0535	8.26326	0.8308	0.68027	82.862
Asta 264 (45-44)	294	massimi	290.00	-235.28141	35.0535	8.26326	0.8308	12.36927	32.65
Asta 264 (45-44)	294	minimi	0.00	-232.00244	21.96868	-11.06463	-0.37489	-11.60368	87.02
Asta 264 (45-44)	294	minimi	145.00	-238.52744	21.96868	-11.06463	-0.37489	-1.03383	55.124
Asta 264 (45-44)	294	minimi	290.00	-245.05243	21.96868	-11.06463	-0.37489	-16.78482	22.654
Asta 265 (50-49)	295	massimi	0.00	-226.98881	-18.45911	6.84411	-0.54323	16.2177	-112.135
Asta 265 (50-49)	295	massimi	145.00	-233.51381	-18.45911	6.84411	-0.54323	0.48147	-85.339
Asta 265 (50-49)	295	massimi	290.00	-240.03881	-18.45911	6.84411	-0.54323	10.39069	-57.366
Asta 265 (50-49)	295	minimi	0.00	-234.47419	-34.42544	-12.15694	-1.74892	-9.45944	-160.546
Asta 265 (50-49)	295	minimi	145.00	-240.99919	-34.42544	-12.15694	-1.74892	-1.42681	-110.659
Asta 265 (50-49)	295	minimi	290.00	-247.52419	-34.42544	-12.15694	-1.74892	-19.03963	-61.95
Asta 266 (75-74)	296	massimi	0.00	-221.16011	36.96816	5.85718	0.36196	18.54597	138.275
Asta 266	296	massimi	145.00	-227.68511	36.96816	5.85718	0.36196	0.61075	84.716

(75-74)									
Asta 266 (75-74)	296	massimi	290.00	-234.21011	36.96816	5.85718	0.36196	8.83877	32.098
Asta 266 (75-74)	296	minimi	0.00	-230.85393	23.71392	-13.31114	-0.84374	-8.15526	92.95
Asta 266 (75-74)	296	minimi	145.00	-237.37893	23.71392	-13.31114	-0.84374	-1.02829	58.52
Asta 266 (75-74)	296	minimi	290.00	-243.90393	23.71392	-13.31114	-0.84374	-20.06457	23.149
Asta 267 (80-79)	297	massimi	0.00	-223.22399	-21.91447	1.75491	-0.18653	23.32052	-112.748
Asta 267 (80-79)	297	massimi	145.00	-229.74899	-21.91447	1.75491	-0.18653	0.10414	-80.943
Asta 267 (80-79)	297	massimi	290.00	-236.27399	-21.91447	1.75491	-0.18653	2.63594	-46.999
Asta 267 (80-79)	297	minimi	0.00	-232.22086	-37.92745	-17.26478	-1.39222	-2.45513	-159.858
Asta 267 (80-79)	297	minimi	145.00	-238.74586	-37.92745	-17.26478	-1.39222	-1.72805	-104.892
Asta 267 (80-79)	297	minimi	290.00	-245.27086	-37.92745	-17.26478	-1.39222	-26.74916	-52.066
Asta 268 (105-104)	298	massimi	0.00	-147.38967	59.78451	-0.39161	-1.57444	15.74357	130.795
Asta 268 (105-104)	298	massimi	145.00	-153.91467	59.78451	-0.39161	-1.57444	0.66013	44.281
Asta 268 (105-104)	298	massimi	290.00	-160.43967	59.78451	-0.39161	-1.57444	-0.38906	-37.885
Asta 268 (105-104)	298	minimi	0.00	-157.64587	43.07625	-11.5808	-2.78013	0.7094	83.067
Asta 268 (105-104)	298	minimi	145.00	-164.17087	43.07625	-11.5808	-2.78013	-1.56715	20.433
Asta 268 (105-104)	298	minimi	290.00	-170.69587	43.07625	-11.5808	-2.78013	-17.87794	-46.549
Asta 269 (110-109)	299	massimi	0.00	-152.21865	-44.74753	-4.61637	0.86446	20.49229	-101.468
Asta 269 (110-109)	299	massimi	145.00	-158.74365	-44.74753	-4.61637	0.86446	-0.67837	-36.477
Asta 269 (110-109)	299	massimi	290.00	-165.26865	-44.74753	-4.61637	0.86446	-7.42246	35.261
Asta 269 (110-109)	299	minimi	0.00	-162.95531	-63.39057	-16.31875	-0.34123	5.95754	-150.48
Asta 269 (110-109)	299	minimi	145.00	-169.48031	-63.39057	-16.31875	-0.34123	-3.22773	-58.671
Asta 269 (110-109)	299	minimi	290.00	-176.00531	-63.39057	-16.31875	-0.34123	-26.83956	26.392

1.4.5 Stato limite esercizio rare (SLE Car.)

1.4.5.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	-0.001224	0.015033	-7.247013	0.000168097650635	0.000102466138614	-0.000002280354698
1	minimi	-0.003235	0.014226	-7.613875	0.000153268848852	0.000098993718638	-0.000002670293213
2	massimi	-0.023498	0.052855	-7.247013	0.000168097650632	0.00010246613861	-0.000002280354697
2	minimi	-0.02629	0.048712	-7.613875	0.00015326884885	0.000098993718635	-0.000002670293212
3	massimi	-0.025321	0.055179	-7.110399	0.00010735072984	0.000204920654578	-0.000001740531001
3	minimi	-0.028442	0.050667	-7.478347	0.000096061089671	0.00019571600778	-0.000002051394062
4	massimi	-0.02553	0.049699	-7.34544	0.000106509446311	-0.000007753441325	-0.000002014995224
4	minimi	-0.028668	0.04599	-7.721633	0.000095248315947	-0.000010364892318	-0.000002349203578
5	massimi	-0.021153	0.049632	-7.021312	0.000217111381099	-0.000006330148948	-0.000002070183808
5	minimi	-0.023561	0.04593	-7.366145	0.00019982417016	-0.000008803896026	-0.000002410949405
6	massimi	-0.021361	0.055246	-6.78627	0.00021627009757	0.000203359658286	-0.000001795719585
6	minimi	-0.023787	0.050727	-7.122859	0.000199011396437	0.000194292715403	-0.000002113139889
7	massimi	0.327258	-0.070667	-7.432591	0.000240292525557	0.000366613598412	0.000027449192074
7	minimi	0.287236	-0.079416	-7.810026	0.000226034586975	0.000303957195559	0.000021027161467
8	massimi	0.60195	-0.104325	-7.524113	-0.000044677205276	0.000038383282741	0.00005198895269
8	minimi	0.509699	-0.117399	-7.90421	-0.000045318941442	0.000033773526114	0.000039012771427
9	massimi	0.730674	-0.216964	-7.586611	0.00030831870421	0.000212246538812	0.000069218997379
9	minimi	0.635351	-0.240687	-7.968577	0.000287095748183	0.000206434531853	0.000051640965655
10	massimi	1.146274	-0.45038	-7.673162	0.00020722300023	0.000635906485877	0.000120448924475
10	minimi	1.021135	-0.497362	-8.057785	0.000189994539874	0.000612576529916	0.000105538953909
11	massimi	0.072382	0.064992	-7.680352	0.000183741975971	0.000088302149367	0.000007139096839
11	minimi	0.061868	0.060658	-8.090551	0.000164947435126	0.000069652810217	0.000006402325821
12	massimi	0.052514	0.106334	-7.680352	0.000183741975968	0.000088302149366	0.000007139096835
12	minimi	0.046196	0.097771	-8.090551	0.000164947435123	0.000069652810216	0.000006402325818
13	massimi	0.058917	0.098149	-7.578551	0.000118455434112	0.000199133597751	0.000006202996705
13	minimi	0.05195	0.090411	-7.974774	0.000103640314218	0.000174812306601	0.000005570680599
14	massimi	0.058462	0.112845	-7.743928	0.000117730442796	-0.000031471443807	0.000005603865263
14	minimi	0.051532	0.103592	-8.184431	0.000103068440454	-0.000042560257552	0.000005019794849
15	massimi	0.045867	0.112979	-7.395102	0.000236008811618	-0.000029765167105	0.000005727202574
15	minimi	0.040247	0.10371	-7.795858	0.000214487645522	-0.000041028511939	0.000005128295003
16	massimi	0.045412	0.098015	-7.229725	0.000235283820302	0.000197427321049	0.000006326334015
16	minimi	0.039828	0.090293	-7.586202	0.000213915771758	0.000173280560988	0.000005679180753
17	massimi	0.328591	0.166171	-7.877495	0.000309853523101	-0.000091902579568	0.000084966390728
17	minimi	0.292044	0.16416	-8.299421	0.000286013642029	-0.000127160383832	0.000078057657402
18	massimi	0.584942	0.250149	-7.973553	-0.000134575713299	0.000269151184394	0.000141381719944
18	minimi	0.54012	0.249606	-8.398581	-0.000139095757262	0.000239005853282	0.000132330009881
19	massimi	0.857076	0.12755	-8.039236	0.000478216848355	0.00007872775278	0.000180992483011
19	minimi	0.770555	0.110957	-8.466442	0.000438976577713	0.000052553967168	0.000170436129706
20	massimi	1.068083	-0.25428	-8.12885	0.000327359834054	-0.000515729154894	0.000157216990065
20	minimi	0.944353	-0.317555	-8.559047	0.000297561653484	-0.000528662136906	0.000145038720454
21	massimi	-0.023167	0.010002	-9.141999	0.000083535564816	0.000172776389701	0.000001613004108
21	minimi	-0.031579	0.009422	-9.714106	0.000075123747028	0.000165766176458	0.000001579273934
22	massimi	-0.060464	0.028798	-9.141999	0.000083535564814	0.000172776389694	0.000001613004108
22	minimi	-0.070453	0.026325	-9.714106	0.000075123747027	0.000165766176452	0.000001579273933
23	massimi	-0.058531	0.026841	-8.789399	0.000009072456988	0.000304706801909	0.000001492918842
23	minimi	-0.06848	0.024365	-9.345749	0.000005622980843	0.000288906466982	0.000001483433533

24	massimi	-0.058644	0.030302	-9.182978	0.00000765390123	0.000025839118768	0.000001344592561
24	minimi	-0.068603	0.02787	-9.755973	0.000004261981435	0.000023349301826	0.000001321173356
25	massimi	-0.06148	0.030122	-9.024109	0.000153168385706	0.000026536736433	0.000001202582278
25	minimi	-0.071367	0.027716	-9.579314	0.000140365912408	0.000024125033708	0.000001155701063
26	massimi	-0.061592	0.027021	-8.630529	0.000151749829948	0.0000303931070027	0.000001350908559
26	minimi	-0.07149	0.02452	-9.16909	0.000139004913	0.000288208849317	0.000001317961061
27	massimi	0.759248	-0.068443	-9.384874	0.000138991310392	0.000791679091482	0.000065683083181
27	minimi	0.661724	-0.076923	-9.973985	0.000124291028331	0.00065224832566	0.000057273149768
28	massimi	1.369893	-0.138021	-9.49085	0.000008611641387	0.000003721935576	0.000125703827732
28	minimi	1.124275	-0.153598	-10.083469	0.000008512785635	-0.000026962480307	0.000107747468871
29	massimi	1.307191	-0.215581	-9.563496	0.00015382076576	-0.000026250033804	0.00016784605263
29	minimi	1.045812	-0.239319	-10.158578	0.000137982369353	-0.000026858081592	0.000143186884412
30	massimi	2.81114	-0.433993	-9.695156	0.000175183585631	0.001415768591421	0.000208718519694
30	minimi	2.508179	-0.479741	-10.295598	0.000158235165577	0.001357467580678	0.000186750845516
31	massimi	0.078256	0.058807	-11.476303	0.000134450194454	0.000202038544135	0.000006695222029
31	minimi	0.065544	0.054779	-12.288372	0.000117413896066	0.00016999527322	0.000006047523074
32	massimi	0.032798	0.089058	-11.476303	0.000134450194452	0.00020203854413	0.000006695222026
32	minimi	0.027295	0.081197	-12.288372	0.000117413896064	0.000169995273216	0.000006047523071
33	massimi	0.038889	0.081445	-11.096774	0.000037160530257	0.00037369741612	0.000005806598774
33	minimi	0.032815	0.074312	-11.865637	0.000027267857411	0.000330272118455	0.000005249727945
34	massimi	0.038508	0.095269	-11.500394	0.000035501723636	0.000009919718139	0.000005304807272
34	minimi	0.032467	0.086805	-12.345339	0.000025872137173	-0.000007496581592	0.000004792226083
35	massimi	0.026651	0.095353	-11.252091	0.000223341207004	0.00001116825829	0.000005381837919
35	minimi	0.02176	0.086874	-12.061007	0.000200172585774	-0.000006406245024	0.000004856334074
36	massimi	0.026269	0.081361	-10.84847	0.000221682400382	0.000372448875969	0.000005883629421
36	minimi	0.021413	0.074242	-11.581306	0.000198776865537	0.000329181781888	0.000005313835936
37	massimi	0.738686	0.169888	-11.79136	0.000300514928245	0.000107395685939	0.000123626364963
37	minimi	0.653504	0.167551	-12.628085	0.000266324273017	0.000080616838708	0.000113202540323
38	massimi	1.527671	0.20059	-11.911256	-0.000110573969499	0.000673806408364	0.000233032967515
38	minimi	1.41779	0.197465	-12.752184	-0.000118105864618	0.000628801946921	0.000214501496672
39	massimi	2.51866	0.131591	-11.993676	0.000347147929996	0.000785825450562	0.000309850369306
39	minimi	2.332538	0.115192	-12.837556	0.000309226366293	0.000719283119178	0.000285626295811
40	massimi	2.764037	-0.232554	-12.125747	0.000337960913609	-0.000947452557968	0.000241520175317
40	minimi	2.464943	-0.294201	-12.975064	0.000302777115829	-0.000964272138303	0.000219700754796
41	massimi	0.098665	0.165337	-11.641241	-0.000103665513854	0.000127861327001	0.000022055563743
41	minimi	0.084383	0.153821	-12.411805	-0.000106961389595	0.000105395682481	0.000020256528353
42	massimi	0.079486	0.149293	-11.641241	-0.000103665513853	0.000127861327002	0.000022055563736
42	minimi	0.068573	0.138271	-12.411805	-0.000106961389593	0.000105395682482	0.000020256528347
43	massimi	0.092455	0.135743	-11.400119	-0.000176923728158	0.000205981343212	0.00002034616128
43	minimi	0.0805	0.125819	-12.146706	-0.000185372290804	0.000178629816327	0.000018695726702
44	massimi	0.092223	0.161852	-11.535	-0.000177202872503	0.000045843521479	0.000019856065976
44	minimi	0.080285	0.149806	-12.310338	-0.000185710936236	0.000028948613386	0.000018241812192
45	massimi	0.066222	0.161976	-11.667667	-0.000024951177893	0.000045560230301	0.000020117001939
45	minimi	0.056407	0.149913	-12.447223	-0.000026967963287	0.000028674051456	0.000018466924072
46	massimi	0.06599	0.135619	-11.532786	-0.000025289823324	0.00020626463439	0.000020607097243
46	minimi	0.056192	0.125713	-12.283591	-0.000027247107632	0.000178904378257	0.000018920838582
47	massimi	0.739869	1.182376	-11.826963	0.000638054155247	-0.000286333085332	0.000123208809127
47	minimi	0.654846	1.10997	-12.610651	0.000580468950352	-0.000317600426157	0.00011337220503
48	massimi	2.235494	2.459897	-11.888012	-0.001088029579591	0.001046696431096	0.000263215094435
48	minimi	2.063818	2.297756	-12.675532	-0.001175659263492	0.000981319860563	0.000241226659083
49	massimi	2.490066	3.175692	-11.929199	0.00049608734649	-0.001010945176801	0.000361517379865
49	minimi	2.305836	2.964102	-12.71941	0.000451128731237	-0.001085929885813	0.000330996807673
50	massimi	-0.009408	0.003321	-9.377616	0.000018184528645	0.000273284812034	0.00000170990521
50	minimi	-0.016363	0.003221	-9.978601	0.000016038456084	0.00025573949788	0.000001493317225
51	massimi	-0.066949	0.007413	-9.377616	0.000018184528645	0.000273284812024	0.000001709905209
51	minimi	-0.077853	0.00683	-9.978601	0.000016038456084	0.000255739497871	0.000001493317224
52	massimi	-0.065124	0.005479	-8.849003	-0.0000528090055	0.000404032532979	0.000001541025453
52	minimi	-0.075756	0.005139	-9.414275	-0.000055583723247	0.000377799988487	0.000001345607466
53	massimi	-0.065153	0.00923	-9.456207	-0.000054908717954	0.000114862153973	0.000001499258291
53	minimi	-0.075788	0.008413	-10.063136	-0.000057827488986	0.000107780844586	0.00000130712594
54	massimi	-0.067854	0.009031	-9.422289	0.00009283626028	0.000115031019996	0.000001316407696
54	minimi	-0.078882	0.008241	-10.02468	0.00008578588018	0.00010792978165	0.000001149884164
55	massimi	-0.067883	0.005678	-8.815086	0.000090592494541	0.000403863666956	0.000001358174857
55	minimi	-0.078913	0.00531	-9.375819	0.000083686167725	0.000377651051423	0.000001188365691
56	massimi	1.101896	-0.064374	-9.626901	0.000027793839554	0.000914014708628	0.00003555978279
56	minimi	0.968521	-0.072403	-10.245699	0.00002487722565	0.000761890237436	0.000032450783244
57	massimi	2.030107	-0.15249	-9.736392	0.000061740437939	0.000207666391861	0.00007651865204
57	minimi	1.717552	-0.169882	-10.359142	0.000055961348872	0.000157652717565	0.000070044517433
58	massimi	2.250844	-0.214431	-9.811507	0.000034781194793	0.00019295286403	0.000105277007045

58	minimi	1.896075	-0.238196	-10.437032	0.000031526903658	0.000173326211778	0.000096440118034
59	massimi	4.349011	-0.408661	-9.944648	0.00006167415456	0.001568051491141	0.000115196595433
59	minimi	3.896668	-0.452088	-10.575729	0.000055466621991	0.001493218517987	0.000105495752598
60	massimi	0.078809	0.045862	-12.884117	0.000016785217344	0.00025814302638	0.000002898690768
60	minimi	0.066118	0.042892	-13.898725	0.00001078719365	0.000223632174296	0.000002686759
61	massimi	0.020727	0.049638	-12.884117	0.000016785217343	0.000258143026373	0.000002898690767
61	minimi	0.0158	0.045319	-13.898725	0.000010787193649	0.00022363217429	0.000002686758998
62	massimi	0.023345	0.046263	-12.287985	-0.00008665827848	0.000452046186374	0.000002537514086
62	minimi	0.018248	0.042192	-13.239006	-0.000089036481107	0.000403105762016	0.000002354051285
63	massimi	0.023132	0.052232	-12.818956	-0.000088494376305	0.000038098347346	0.0000022578294
63	minimi	0.018054	0.047733	-13.851916	-0.000091155925014	0.000021511897938	0.000002098702458
64	massimi	0.018046	0.052285	-12.796143	0.00012347075257	0.000038254219324	0.000002306510206
64	minimi	0.013337	0.047773	-13.816419	0.000109261834685	0.000021612070679	0.00000213581221
65	massimi	0.017834	0.04621	-12.265172	0.000121351308663	0.000451890314396	0.000002586194893
65	minimi	0.013143	0.042152	-13.203509	0.00010742573686	0.000403005589276	0.000002391161036
66	massimi	1.084859	0.177941	-13.243542	0.000078615335639	0.000390112266384	0.000077920607101
66	minimi	0.963408	0.174848	-14.289435	0.000065907288408	0.000376858457839	0.000071637513138
67	massimi	2.307083	0.184994	-13.378688	-0.000018534909292	0.00087266407331	0.000138432228905
67	minimi	2.111304	0.180114	-14.429571	-0.000020718442929	0.000809973141434	0.000126520642129
68	massimi	3.606158	0.138228	-13.471815	0.000136949197751	0.001077163484126	0.000180919112299
68	minimi	3.311101	0.122261	-14.526202	0.000119173742283	0.000990975682618	0.000165055605038
69	massimi	4.308762	-0.195318	-13.606184	0.000149380244333	-0.000871390860876	0.000127103165364
69	minimi	3.859896	-0.253552	-14.666102	0.000131818805064	-0.000875839473855	0.000115706501308
70	massimi	0.113912	0.134451	-14.45302	0.000015978922791	0.000390463094721	0.000007261483963
70	minimi	0.09659	0.12535	-15.516273	0.000008543085083	0.000329885958169	0.000006205136406
71	massimi	0.055343	0.136848	-14.45302	0.000015978922791	0.000390463094716	0.00000726148396
71	minimi	0.047108	0.126631	-15.516273	0.000008543085083	0.000329885958166	0.000006205136404
72	massimi	0.059584	0.132119	-14.112714	-0.000085039657916	0.000485824821811	0.000006794745571
72	minimi	0.05074	0.122558	-15.131625	-0.000085222138237	0.00041894093138	0.000005822504655
73	massimi	0.059372	0.14067	-14.534889	-0.000086073813797	0.000283198293307	0.000006345502569
73	minimi	0.050543	0.129865	-15.631324	-0.000086095853342	0.000230774574682	0.00000540680193
74	massimi	0.050947	0.140756	-14.523956	0.000117544549822	0.000283240614073	0.000006527181459
74	minimi	0.04336	0.129938	-15.610874	0.000102921591785	0.000230797201357	0.000005561445903
75	massimi	0.050735	0.132033	-14.101781	0.00011651039394	0.000485782501045	0.000006976424461
75	minimi	0.043163	0.122484	-15.111176	0.00010204787668	0.000418918304704	0.000005977148628
76	massimi	1.087738	1.189417	-14.694905	0.00047870132481	-0.000507637873928	0.0000672603664
76	minimi	0.967055	1.116514	-15.777415	0.000434887705152	-0.000619505052089	0.000061200479899
77	massimi	3.074803	2.490792	-14.783234	-0.001038166754092	0.001512325463979	0.000167259821895
77	minimi	2.845112	2.326351	-15.870641	-0.001120976264481	0.001388083222353	0.000152770460634
78	massimi	3.566812	3.197053	-14.843575	0.000416759912421	-0.001287442891296	0.000237472205541
78	minimi	3.275131	2.983787	-15.934421	0.00037914306472	-0.00136882808509	0.000217064276894
79	massimi	-0.025234	-0.001489	-9.375535	0.000006983206137	0.000266632421153	-0.000005400706631
79	minimi	-0.033356	-0.001732	-9.976098	0.000006270141107	0.000248937787859	-0.00000593136891
80	massimi	-0.081245	-0.000078	-9.375535	0.000006983206137	0.000266632421143	-0.000005400706628
80	minimi	-0.093349	-0.00016	-9.976098	0.000006270141107	0.00024893778785	-0.000005931368907
81	massimi	-0.085641	0.005882	-8.844727	-0.00006222870696	0.000397625136304	-0.000004417387602
81	minimi	-0.098149	0.005428	-9.407897	-0.000066372943223	0.000371264189141	-0.000004846802378
82	massimi	-0.085641	-0.005583	-9.435781	-0.000064266738686	0.00010863844152	-0.00000441694795
82	minimi	-0.098149	-0.006201	-10.040964	-0.000068562090461	0.000101402017737	-0.000004845898868
83	massimi	-0.075769	-0.005791	-9.422521	0.000082006126945	0.000108703289296	-0.000004607766578
83	minimi	-0.087307	-0.006439	-10.026196	0.000076337985638	0.000101460243815	-0.000005065144811
84	massimi	-0.075768	0.006121	-8.831467	0.000079816979707	0.000397560288527	-0.00000460820623
84	minimi	-0.087306	0.005636	-9.393129	0.000074294117648	0.000371205963063	-0.000005066048321
85	massimi	1.081687	-0.059492	-9.624679	0.000019321487101	0.000922916953324	-0.000032257629499
85	minimi	0.947906	-0.06699	-10.243037	0.000017365441519	0.000769511611475	-0.000034669814345
86	massimi	2.049721	-0.15079	-9.734124	0.000067311584986	0.000238498777478	-0.000051783265433
86	minimi	1.732413	-0.168187	-10.356428	0.000060837593521	0.000185356818162	-0.000055563886058
87	massimi	2.315949	-0.21262	-9.809206	0.000025630877715	0.000229749259348	-0.000065492754494
87	minimi	1.951882	-0.23637	-10.434281	0.000023515246798	0.00020647128316	-0.000070234191729
88	massimi	4.510407	-0.384638	-9.942235	0.000042189210192	0.0015933100505	-0.000051954906527
88	minimi	4.038882	-0.425822	-10.572857	0.000038409029362	0.001515632502689	-0.000056809683815
89	massimi	0.056405	0.03268	-13.126786	-0.000043435900109	0.000256159486449	-0.000001991944702
89	minimi	0.045317	0.030849	-14.173346	-0.000045025342456	0.000221562539526	-0.00000221380927
90	massimi	-0.001231	0.022549	-13.126786	-0.000043435900108	0.000256159486441	-0.000001991944701
90	minimi	-0.004534	0.021076	-14.173346	-0.000045025342456	0.00022156253952	-0.000002213809269
91	massimi	-0.003197	0.02467	-12.46885	-0.000140845422486	0.000454247141887	-0.000001599675495
91	minimi	-0.00628	0.022974	-13.442786	-0.000150788136491	0.000404751631916	-0.000001784785751
92	massimi	-0.003294	0.020074	-12.994907	-0.000142664527891	0.000032131180255	-0.000001718428593
92	minimi	-0.00637	0.018847	-14.050987	-0.000152891294846	0.000015936345399	-0.000001911837799

93	massimi	0.000849	0.020071	-13.086764	0.000066208701029	0.000031713062987	-0.000001729078517
93	minimi	-0.002639	0.018836	-14.146205	0.000059041921581	0.000015532988114	-0.000001914727836
94	massimi	0.000753	0.024673	-12.560707	0.000064105542674	0.000454665259154	-0.000001610325419
94	minimi	-0.002729	0.022985	-13.538005	0.000057222816176	0.0004051549892	-0.000001787675788
95	massimi	1.060683	0.187862	-13.49254	-0.000013020161653	0.000439448118345	0.00003536096514
95	minimi	0.93912	0.183815	-14.571248	-0.00001420533877	0.000421359262455	0.000033326675116
96	massimi	2.329972	0.179472	-13.629779	0.000024459603374	0.000887722197056	0.000046060566555
96	minimi	2.128736	0.173249	-14.71379	0.000016739957165	0.000823140574899	0.000043328356986
97	massimi	3.662275	0.147293	-13.724376	0.000036053881203	0.001119512886582	0.000053573052656
97	minimi	3.358509	0.131975	-14.81211	0.000030987756667	0.001029776201279	0.00005035081447
98	massimi	4.470084	-0.158029	-13.859497	0.000078127641647	-0.000848341422027	-0.000027819696857
98	minimi	4.002065	-0.212671	-14.952887	0.000069553491991	-0.000849790334647	-0.000031607889389
99	massimi	0.095575	0.072104	-15.770799	-0.000317258047664	0.000088248735456	0.000000451859731
99	minimi	0.079542	0.067858	-16.940432	-0.000342368424103	0.000048234338471	-0.000001889538552
100	massimi	0.082337	0.020749	-15.770799	-0.000317258047659	0.000088248735457	0.000000451859731
100	minimi	0.072307	0.020269	-16.940432	-0.000342368424098	0.000048234338473	-0.000001889538552
101	massimi	0.080957	0.021868	-15.389431	-0.000415378966971	0.00019741339608	0.0000003290773
101	minimi	0.072352	0.01999	-16.50602	-0.000447996250887	0.000150099525542	-0.000001834365098
102	massimi	0.080924	0.020415	-15.451159	-0.000415506717392	-0.000023606144217	0.000000262537306
102	minimi	0.07232	0.019493	-16.618957	-0.000448229980912	-0.000055101248547	-0.000001902479843
103	massimi	0.083204	0.020527	-15.857173	-0.000209337923264	-0.000024512919592	0.000000499905095
103	minimi	0.071814	0.019621	-17.057106	-0.000226069935215	-0.000055941518166	-0.000001632184556
104	massimi	0.083172	0.02174	-15.795445	-0.000209465673685	0.000198320171455	0.000000566445089
104	minimi	0.071783	0.019877	-16.944169	-0.00022630366524	0.000150939795161	-0.000001564069811
105	massimi	1.05814	1.20459	-16.046997	0.000025601647555	-0.000369458693166	-0.000024225642781
105	minimi	0.937765	1.130597	-17.238641	0.000023561867478	-0.000477576791234	-0.00002672499986
106	massimi	3.00478	2.405982	-16.173382	-0.000238768367373	0.00138145299685	-0.000415718735703
106	minimi	2.778464	2.249966	-17.371245	-0.000281811782217	0.00126440282898	-0.000448695196727
107	massimi	3.6147	3.238844	-16.235517	-0.000079104383739	-0.001104182755798	-0.000001910084779
107	minimi	3.315027	3.022325	-17.437277	-0.000085725590567	-0.001171167372963	-0.000003047237664
108	massimi	0.089991	0.010659	-1.649577	-0.000486173457814	-0.001151840429496	0.000005234399244
108	minimi	0.082147	0.010496	-1.753946	-0.000518286188778	-0.001231444683428	0.000005111086281
109	massimi	1.286029	0.911719	-1.754718	-0.000155057426114	0.001115494726445	-0.000080770604622
109	minimi	1.186571	0.854953	-1.865649	-0.000166422450628	0.001036405241926	-0.000086106381071
110	massimi	1.847609	0.960007	-1.827229	0.000119450439336	-0.000988226469451	-0.000142869673428
110	minimi	1.706124	0.896167	-1.942904	0.000115579706706	-0.00105972114252	-0.000152152791453
111	massimi	0.088808	0.00179	-0.531662	-0.0002117841299	0.000338660115904	0.000005457271012
111	minimi	0.081117	0.001384	-0.557454	-0.000224416855694	0.00031880450683	0.000005277150645
112	massimi	2.010807	0.449443	-0.576801	-0.000076911133758	0.000627213287881	-0.000021706139573
112	minimi	1.873124	0.421802	-0.605157	-0.000083015840135	0.00058085152045	-0.00002333577822
113	massimi	1.837048	0.397845	-0.605927	0.000157208249757	-0.001019346582189	-0.000041217134039
113	minimi	1.696261	0.369848	-0.636137	0.000150325975118	-0.001080065127996	-0.000044155367665
114	massimi	0.089447	0.033656	-15.167892	-0.000161552824612	-0.002616675532368	-0.000008565719785
114	minimi	0.0813	0.032181	-16.264285	-0.000183667763874	-0.002800344425193	-0.000009003931036
115	massimi	0.846061	1.21046	-15.914169	-0.000192140716776	-0.000420052250373	-0.000111281077124
115	minimi	0.743018	1.135954	-17.077396	-0.000215215352331	-0.000532829905364	-0.000121164519967
116	massimi	1.878345	2.394293	-16.581151	-0.000135643045874	0.000407465551961	-0.000193973916927
116	minimi	1.734764	2.23891	-17.738505	-0.000149846457019	0.000368787612287	-0.000209932208767
117	massimi	-0.073194	-0.005414	-9.259543	-0.000018788628927	0.000151096231763	-0.000014776171158
117	minimi	-0.086093	-0.005903	-9.842387	-0.000020876168885	0.000142656725587	-0.000015816127521
118	massimi	-0.105292	-0.009642	-9.259543	-0.000018788628927	0.000151096231755	-0.000014776171151
118	minimi	-0.120089	-0.0106	-9.842387	-0.000020876168885	0.00014265672558	-0.000015816127514
119	massimi	-0.118117	0.005758	-8.831721	-0.000085832549046	0.000285681407227	-0.000012249789819
119	minimi	-0.133769	0.005647	-9.385703	-0.000092571634028	0.000268401993438	-0.000013104051573
120	massimi	-0.118076	-0.024779	-9.170431	-0.000087003811623	0.000002464932584	-0.000012195465172
120	minimi	-0.133723	-0.026791	-9.744452	-0.00009381218796	0.000001209881372	-0.000013044325669
121	massimi	-0.091107	-0.025048	-9.210165	0.000053621483199	0.000002290456736	-0.000012442760991
121	minimi	-0.104857	-0.027098	-9.7886	0.000050832029232	0.000001016020113	-0.000013326376734
122	massimi	-0.091065	0.006064	-8.871454	0.000052380929267	0.000285875268486	-0.000012497085639
122	minimi	-0.104812	0.005916	-9.429852	0.000049660766655	0.000268576469285	-0.000013386102637
123	massimi	0.696859	-0.054083	-9.50521	-0.000035953476221	0.000825203035848	-0.000072761602966
123	minimi	0.596475	-0.061013	-10.105317	-0.000042005917591	0.000681468202879	-0.000082305903799
124	massimi	1.458341	-0.156083	-9.612714	0.000097159370012	0.000122751505777	-0.000104300846302
124	minimi	1.19488	-0.173969	-10.216515	0.000086926069927	0.000080805882074	-0.000121296984143
125	massimi	1.576235	-0.210336	-9.686434	-0.000033090573424	0.00012384256414	-0.00012644542141
125	minimi	1.279686	-0.234023	-10.292828	-0.000038217124703	0.00010964174118	-0.00014867370013
126	massimi	3.527403	-0.363946	-9.818746	-0.000014553723767	0.001549109798735	-0.000134650526802
126	minimi	3.141746	-0.403216	-10.430597	-0.000017003735328	0.001474228471398	-0.000152183353397
127	massimi	0.016032	0.020499	-12.831839	-0.000104847318508	0.000152285611652	-0.000003385406353

127	minimi	0.009345	0.019646	-13.84384	-0.000112770302625	0.00012692350745	-0.000004110782922
128	massimi	-0.018233	-0.003944	-12.831839	-0.000104847318507	0.000152285611647	-0.000003385406352
128	minimi	-0.019213	-0.004874	-13.84384	-0.000112770302623	0.000126923507446	-0.00000411078292
129	massimi	-0.021879	-0.000421	-12.229737	-0.000197937488252	0.000350073618002	-0.000002817238813
129	minimi	-0.022188	-0.00059	-13.174367	-0.000213732274243	0.000309924829156	-0.000003427101188
130	massimi	-0.021858	-0.007405	-12.531092	-0.000198979574333	-0.000060923989744	-0.000002795014882
130	minimi	-0.022171	-0.009082	-13.535939	-0.000214982592008	-0.000068931050438	-0.000003399637101
131	massimi	-0.014365	-0.007454	-12.75282	-0.000002122305008	-0.000061971204672	-0.000002840139613
131	minimi	-0.015999	-0.009129	-13.774423	-0.000002872028059	-0.000069904690435	-0.000003442459565
132	massimi	-0.014344	-0.000372	-12.451465	-0.000003372622773	0.00035112083293	-0.000002862363544
132	minimi	-0.015982	-0.000543	-13.41285	-0.000003914114139	0.000310898469152	-0.000003469923652
133	massimi	0.663762	0.198204	-13.188633	-0.000136040101283	0.000297527134216	0.000003782741449
133	minimi	0.576156	0.193169	-14.231731	-0.000148275165605	0.000290909215656	0.000002728629266
134	massimi	1.639687	0.170822	-13.321891	0.000086375991403	0.00073232083948	-0.000026901515206
134	minimi	1.495127	0.1634	-14.369854	0.000072379041381	0.00067977877745	-0.000029446846322
135	massimi	2.790752	0.157149	-13.413694	-0.000094766616791	0.001007591559557	-0.000048445780517
135	minimi	2.558473	0.142545	-14.465072	-0.000103545040579	0.000927929264115	-0.000052038137692
136	massimi	3.484106	-0.12546	-13.546945	-0.000026684646559	-0.000847325607484	-0.000107458621447
136	minimi	3.102066	-0.177127	-14.603793	-0.000028062098228	-0.000850011473121	-0.000119758291942
137	massimi	0.070105	-0.004675	-14.704043	-0.000458550284584	-0.000549442635964	0.000005595695573
137	minimi	0.058087	-0.006065	-15.759691	-0.000492683400977	-0.000560463441418	0.000003998462096
138	massimi	0.154175	-0.073457	-14.704043	-0.000458550284577	-0.000549442635951	0.000005595695571
138	minimi	0.140503	-0.079968	-15.759691	-0.000492683400969	-0.000560463441404	0.000003998462095
139	massimi	0.155979	-0.076432	-14.625077	-0.000548065038112	-0.000445898652787	0.000004781742129
139	minimi	0.143308	-0.081961	-15.655672	-0.000588861086826	-0.000449628074344	0.00000328347201
140	massimi	0.156104	-0.069995	-13.921923	-0.000546609819063	-0.000636237132118	0.000005022886477
140	minimi	0.143422	-0.077445	-14.938414	-0.000587376678768	-0.000654213357665	0.000003545989057
141	massimi	0.151223	-0.069777	-14.508756	-0.00035651207147	-0.000637451619428	0.000005484127559
141	minimi	0.136652	-0.077205	-15.56893	-0.000382970913379	-0.000655518247791	0.000004052111261
142	massimi	0.151348	-0.076651	-15.21191	-0.000355056852422	-0.000444684165477	0.000005242983211
142	minimi	0.136766	-0.0822	-16.286188	-0.000381486505322	-0.000448323184219	0.000003789594214
143	massimi	0.652105	1.216531	-14.977363	-0.00058685050956	-0.000472382925425	-0.000001486248811
143	minimi	0.566322	1.141495	-16.054204	-0.0006362377051	-0.000589980122125	-0.000003256463071
144	massimi	2.086823	2.383058	-15.124665	-0.000544437029207	0.001155129033241	-0.00007715141974
144	minimi	1.930892	2.228281	-16.20736	-0.000589712971176	0.001056427362507	-0.0000081509290396
145	massimi	2.728104	3.328769	-15.182333	-0.000652500188221	-0.001121713689092	0.000032891464745
145	minimi	2.500727	3.106625	-16.268739	-0.000707822473698	-0.001193291511597	0.00002748579152
146	massimi	0.081208	0.010674	-1.574084	0.000432786110906	-0.001121699799338	-0.000000094028858
146	minimi	0.072729	0.010521	-1.6726	0.000406955034983	-0.001198846308233	-0.000000431159134
147	massimi	1.193254	0.124679	-1.676133	-0.00035378101708	0.001081186754277	-0.000075055366578
147	minimi	1.099505	0.114077	-1.781006	-0.000378495556526	0.001004902286692	-0.000080501536575
148	massimi	1.834945	0.958585	-1.746408	-0.000407356093005	-0.000846142317379	-0.000129258180006
148	minimi	1.694319	0.894829	-1.855878	-0.000434402071335	-0.000907300733974	-0.000138398578725
149	massimi	0.080428	0.00199	-0.499393	0.000187559550605	0.000328438370265	-0.000000938259146
149	minimi	0.072128	0.001564	-0.522096	0.00017785951148	0.00030956833829	-0.000001429516441
150	massimi	1.989972	-0.032718	-0.542571	-0.000132098829233	0.000627430175418	-0.000026708385923
150	minimi	1.85393	-0.03447	-0.567619	-0.000141424610521	0.000581472314032	-0.000028674546338
151	massimi	1.822433	0.398031	-0.570278	-0.000288783790701	-0.001014458259022	-0.000045342169901
151	minimi	1.682621	0.370027	-0.597022	-0.000306657372417	-0.001073886481249	-0.000048374798725
152	massimi	0.079581	-0.018605	-14.102768	-0.000784822557514	-0.002105415873111	0.000012904961133
152	minimi	0.070561	-0.021014	-15.1093	-0.00085033987123	-0.00224681475521	0.000010173740645
153	massimi	0.63845	1.218633	-14.366345	-0.000760046415609	-0.000546926806437	-0.000023697640576
153	minimi	0.555427	1.143412	-15.392214	-0.000822529383155	-0.00066765163357	-0.00002807614365
154	massimi	1.872814	2.377324	-14.789713	-0.000362453976101	0.000678362909531	-0.000256925480211
154	minimi	1.729658	2.222849	-15.824423	-0.000425208288067	0.00061762441647	-0.000273110220931
155	massimi	-0.156721	-0.007366	-8.310651	-0.000115186176348	0.000097991908466	0.000005858836932
155	minimi	-0.171051	-0.007747	-8.776271	-0.000127585390895	0.000084226430628	0.000005090657733
156	massimi	-0.175672	-0.033282	-8.310651	-0.000115186176346	0.000097991908458	0.00000585883693
156	minimi	-0.193099	-0.036454	-8.776271	-0.000127585390893	0.000084226430621	0.000005090657731
157	massimi	-0.169922	-0.038532	-7.877349	-0.000171108077959	0.000217801515529	0.000005019435099
157	minimi	-0.186538	-0.042499	-8.300226	-0.00018679307772	0.000197379508146	0.000004366048872
158	massimi	-0.169779	-0.027509	-8.077328	-0.000171799606983	-0.000031741118369	0.00000522483155
158	minimi	-0.186382	-0.029835	-8.532889	-0.00017597626224	-0.000037456067739	0.000004553577127
159	massimi	-0.179227	-0.027957	-8.320921	-0.000049956292371	-0.000032925907813	0.000004771303455
159	minimi	-0.197248	-0.030328	-8.802703	-0.000058029184209	-0.000038525715015	0.000004140980682
160	massimi	-0.179085	-0.038084	-8.120941	-0.000050647821395	0.000218986304973	0.000004565907004
160	minimi	-0.197092	-0.042006	-8.57004	-0.0000588337372714	0.000198449155422	0.000003953452426
161	massimi	0.3068	-0.048361	-8.52416	-0.0000524754587	0.000776410406907	0.000082055079587
161	minimi	0.260747	-0.054732	-9.002804	-0.000058275008674	0.00069760422632	0.000079291348604

162	massimi	1.018198	-0.167983	-8.617728	0.000108965705645	0.000150026780174	0.000111181212492
162	minimi	0.895223	-0.189372	-9.100531	0.000102252246453	0.00012986403071	0.000110486399508
163	massimi	1.272172	-0.207375	-8.681662	-0.00008362281331	0.000318407923409	0.00013238930759
163	minimi	1.114783	-0.230978	-9.167385	-0.000088689652634	0.000277979783624	0.00013163149134
164	massimi	2.341732	-0.352101	-8.771542	-0.000045859311626	0.000921939067456	-0.000007948523045
164	minimi	2.08798	-0.390485	-9.260535	-0.000046989553192	0.000871410668877	-0.000015898574763
165	massimi	-0.008122	0.01245	-10.969947	-0.00019638830041	-0.000009368027002	-0.000002797327702
165	minimi	-0.008895	0.012059	-11.789152	-0.000212196647922	-0.000010546101414	-0.000003442966517
166	massimi	-0.005749	-0.032128	-10.969947	-0.000196388300406	-0.000009368027002	-0.000002797327701
166	minimi	-0.006787	-0.035294	-11.789152	-0.000212196647918	-0.000010546101414	-0.000003442966515
167	massimi	-0.008933	-0.028978	-10.485991	-0.000271394736104	0.000162321314842	-0.000002419859732
167	minimi	-0.009367	-0.031448	-11.266498	-0.000293312966557	0.000150474144719	-0.000002969464024
168	massimi	-0.008782	-0.034772	-10.463749	-0.000271317821349	-0.000168261521319	-0.000002238835307
168	minimi	-0.00923	-0.038585	-11.241458	-0.000293226379402	-0.000182345539524	-0.000002770601194
169	massimi	-0.002639	-0.034789	-10.879065	-0.000106768081969	-0.000170085235143	-0.000002254775967
169	minimi	-0.004254	-0.0386	-11.690206	-0.000115293685914	-0.000184316053854	-0.000002784103632
170	massimi	-0.002488	-0.028961	-10.901308	-0.000106691167214	0.000164291829172	-0.000002435800392
170	minimi	-0.004116	-0.031433	-11.715245	-0.000115207098758	0.000152297858543	-0.000002982966462
171	massimi	0.22522	0.208661	-11.269455	-0.000252781634267	0.000080491743315	-0.000051309677452
171	minimi	0.185667	0.202634	-12.113365	-0.000262768729557	0.000057491309911	-0.000058337977028
172	massimi	0.689547	0.178023	-11.38951	0.00013414196813	0.000389789968804	-0.000090454375267
172	minimi	0.588824	0.171493	-12.239082	0.00012098039505	0.000352025003634	-0.000099856659384
173	massimi	1.299063	0.167561	-11.472042	-0.000183011813253	0.00052204265363	-0.000117938950328
173	minimi	1.150443	0.153717	-12.325588	-0.000190112926875	0.000489361695576	-0.000129008074655
174	massimi	2.271744	-0.106734	-11.564937	-0.000030224129429	-0.000383796224451	-0.000104198749206
174	minimi	2.021495	-0.157009	-12.42197	-0.000031635838089	-0.000393709495001	-0.000116745278015
175	massimi	0.039092	-0.077247	-9.85934	-0.000797908943192	-0.000131833129648	-0.000018566129609
175	minimi	0.032894	-0.083986	-10.542572	-0.000856518139118	-0.000149014843872	-0.000020060966449
176	massimi	0.058867	-0.196934	-9.85934	-0.00079790894318	-0.000131833129644	-0.000018566129603
176	minimi	0.055246	-0.212464	-10.542572	-0.000856518139105	-0.000149014843868	-0.000020060966443
177	massimi	0.046576	-0.185196	-9.354103	-0.00084882185664	-0.000063440821066	-0.000017444647527
177	minimi	0.043869	-0.199784	-9.982194	-0.000911154590254	-0.000084922660019	-0.000018847297092
178	massimi	0.046907	-0.207365	-9.1634	-0.00084842718534	-0.000196206570471	-0.000016798157085
178	minimi	0.044175	-0.223736	-9.81348	-0.000910805425357	-0.000208564383906	-0.000018149823304
179	massimi	0.070437	-0.207279	-10.184531	-0.000732906841542	-0.000198475090295	-0.00001661679572
179	minimi	0.065951	-0.223644	-10.909616	-0.000776120321026	-0.000210677675117	-0.000017956575582
180	massimi	0.070767	-0.185282	-10.375234	-0.000722672170242	-0.000061172301242	-0.000017263286161
180	minimi	0.066257	-0.199875	-11.078331	-0.000775771156128	-0.000082809368808	-0.00001865404937
181	massimi	0.209313	1.22748	-10.016275	-0.001444401703903	-0.000860666437509	-0.000198655627881
181	minimi	0.171644	1.15148	-10.711734	-0.001551674358676	-0.000994554808115	-0.000219416026239
182	massimi	1.182508	2.35432	-10.099912	-0.001253555139505	0.000925324977329	-0.000469266974869
182	minimi	1.085397	2.201042	-10.797524	-0.001332906479553	0.000831169057942	-0.00050878676782
183	massimi	1.238588	3.429543	-10.142154	-0.001325313988581	-0.001450941986235	-0.00048937526627
183	minimi	1.095439	3.201406	-10.841985	-0.001424795867605	-0.001537310208767	-0.0005329839742
184	massimi	-0.12499	0.049844	-13.616899	-0.00007875935137	0.000835701359176	0.000012175547499
184	minimi	-0.136065	0.045692	-14.646763	-0.000101968550259	0.000761539306635	0.000011369932498
185	massimi	-0.239221	0.034549	-13.616899	-0.000078759351369	0.000835701359154	0.000012175547495
185	minimi	-0.26142	0.033878	-14.646763	-0.000101968550257	0.000761539306616	0.000011369932495
186	massimi	-0.231639	0.026991	-12.952652	-0.000164944401017	0.000918215868122	0.000011654438064
186	minimi	-0.253285	0.026818	-13.910198	-0.00019469514093	0.000838221435576	0.000010877907053
187	massimi	-0.231692	0.041878	-13.927239	-0.000166961365907	0.000727710907601	0.000011541020859
187	minimi	-0.253339	0.040713	-14.979694	-0.000196908526745	0.00066164202856	0.000010766693709
188	massimi	-0.245163	0.041472	-14.028032	0.000011843603041	0.000727440840142	0.000010682835716
188	minimi	-0.267767	0.040341	-15.110189	-0.00000392011295	0.000661433431518	0.000009981384499
189	massimi	-0.245215	0.027397	-13.053445	0.000009826638151	0.000918485935581	0.000010796252922
189	minimi	-0.267821	0.027189	-14.040693	-0.000006133498766	0.000838430032618	0.000010092597844
190	massimi	0.290046	0.356661	-13.851665	0.000717405596546	0.00150862533998	0.000005498564932
190	minimi	0.245238	0.335394	-14.901861	0.000625111476653	0.001358458268267	0.000005482233052
191	massimi	0.654588	1.244644	-13.928037	-0.000629697740375	-0.000235799210295	0.00005325877869
191	minimi	0.551243	1.193493	-14.977723	-0.000682626527201	-0.000250926868874	0.000049849018537
192	massimi	1.283378	0.7955	-13.979982	0.001845996016317	0.001632477695153	0.000086804012862
192	minimi	1.128089	0.752412	-15.02931	0.001745772542048	0.001502775724904	0.000080988698728
193	massimi	-0.02857	0.012498	-12.749937	-0.000182330260895	-0.000509500979137	-0.000002814611419
193	minimi	-0.029802	0.012117	-13.740463	-0.000199414127624	-0.000543840340391	-0.000002955529184
194	massimi	0.051774	-0.015232	-12.749937	-0.000182330260892	-0.000509500979127	-0.000002814611418
194	minimi	0.047855	-0.017414	-13.740463	-0.000199414127621	-0.000543840340381	-0.000002955529183
195	massimi	0.049831	-0.013471	-12.84116	-0.000262732570361	-0.000419469773331	-0.000002685395539
195	minimi	0.046011	-0.015558	-13.833096	-0.000286327888573	-0.000446581975422	-0.000002824673569
196	massimi	0.049858	-0.016893	-12.189121	-0.000261383138261	-0.00058400029958	-0.000002635391427

196	minimi	0.046034	-0.019154	-13.137112	-0.000284887507411	-0.000624520001553	-0.000002767506951
197	massimi	0.053347	-0.016818	-12.42246	-0.000097719135703	-0.000584483207989	-0.000002478293884
197	minimi	0.049358	-0.019074	-13.392314	-0.000107861706784	-0.000625048157211	-0.000002597543752
198	massimi	0.053374	-0.013545	-13.074498	-0.000096369703603	-0.000418986864923	-0.000002528297996
198	minimi	0.049382	-0.015639	-14.088298	-0.000106421325621	-0.000446053819763	-0.00000265471037
199	massimi	0.235486	0.812549	-12.963497	0.000091602699858	-0.001005527296274	-0.000284637867605
199	minimi	0.195212	0.75021	-13.972655	0.000065013826816	-0.001110015141891	-0.000312359930711
200	massimi	1.068128	1.468057	-13.02073	-0.000436013901708	0.00098627274238	-0.000572620473263
200	minimi	0.958183	1.365332	-14.029336	-0.000474666651934	0.000893324479075	-0.000626986097689
201	massimi	1.281033	1.715587	-13.059237	0.000254559076003	-0.001085833456617	-0.000774821026172
201	minimi	1.131727	1.594674	-14.067456	0.000228230544361	-0.001161371098937	-0.000847893831949
202	massimi	-0.063146	0.019117	-13.456899	-0.00013024235454	-0.000379251169314	-0.000022635281668
202	minimi	-0.067395	0.018269	-14.490968	-0.000142315590991	-0.000413712435486	-0.000024696659869
203	massimi	-0.005338	-0.000419	-13.456899	-0.000130242354538	-0.000379251169308	-0.000022635281661
203	minimi	-0.006258	-0.003078	-14.490968	-0.000142315590989	-0.000413712435479	-0.000024696659862
204	massimi	-0.019701	0.014265	-13.483508	-0.000223134586659	-0.000286351502006	-0.0000207581384
204	minimi	-0.020008	0.010388	-14.5373	-0.000227956100317	-0.000313249449139	-0.000022646186878
205	massimi	-0.019696	-0.015101	-12.998158	-0.000222038854043	-0.000460589552296	-0.000020748032717
205	minimi	-0.020007	-0.016525	-14.007848	-0.000226951639633	-0.000501563602852	-0.00002264481021
206	massimi	0.009366	-0.015109	-13.180288	-0.000034475481275	-0.000460966480378	-0.000020768576007
206	minimi	0.007222	-0.016534	-14.174526	-0.000053341121944	-0.000501908554523	-0.000022662334405
207	massimi	0.009367	0.014273	-13.665638	-0.000033379748659	-0.000285974573924	-0.000020778681691
207	minimi	0.007227	0.010398	-14.703979	-0.000052336661261	-0.000312904497468	-0.000022663711073
208	massimi	-1.675865	0.356325	-13.681629	-0.000736271518137	-0.000130710172692	-0.000178352596977
208	minimi	-1.813766	0.334743	-14.734565	-0.000833910879393	-0.000155612607107	-0.000195091336241
209	massimi	-3.086543	-0.042894	-13.757427	0.000342290680342	-0.0009666579033	-0.000350482165979
209	minimi	-3.334359	-0.061402	-14.814511	0.000307368631926	-0.001037293041963	-0.000382780225286
210	massimi	-3.926689	0.830392	-13.808969	-0.002008593718457	-0.000107443076719	-0.000471339097407
210	minimi	-4.245274	0.784734	-14.868966	-0.002117182727465	-0.000133487804085	-0.000514561785679
211	massimi	-0.031457	-0.010712	-10.172181	-0.000400810938581	-0.000687849735633	-0.000012551732032
211	minimi	-0.033685	-0.013225	-10.9196	-0.000435664973579	-0.00074460403452	-0.000013712532999
212	massimi	0.078006	-0.070834	-10.172181	-0.000400810938575	-0.00068784973562	-0.000012551732028
212	minimi	0.071721	-0.078575	-10.9196	-0.000435664973572	-0.000744604034506	-0.000013712532995
213	massimi	0.069531	-0.063079	-10.262786	-0.000460614492719	-0.000612894219319	-0.000011747698951
213	minimi	0.063963	-0.070099	-11.016952	-0.000500087338961	-0.000663754103609	-0.000012835525338
214	massimi	0.069653	-0.078119	-9.382504	-0.000458792697371	-0.000741836492949	-0.000011515166674
214	minimi	0.064073	-0.08653	-10.064038	-0.000498115827764	-0.000802755079702	-0.000012577580583
215	massimi	0.085841	-0.078008	-9.895445	-0.000330610656562	-0.000742898055476	-0.000011279723417
215	minimi	0.078892	-0.086409	-10.621584	-0.000359933088147	-0.000803908954423	-0.000012321503852
216	massimi	0.085963	-0.06319	-10.775727	-0.000328788861214	-0.000611832656793	-0.000011512255694
216	minimi	0.079002	-0.07022	-11.574498	-0.000357960976949	-0.000662600228888	-0.000012579448606
217	massimi	-1.684563	0.822547	-10.326437	-0.000844294230259	-0.001084229085258	0.00004630782846
217	minimi	-1.823118	0.759069	-11.086369	-0.000940004391635	-0.001165503327353	0.000041840971227
218	massimi	-3.122249	1.322086	-10.41316	-0.000003508938969	-0.000584333276981	0.000025020028871
218	minimi	-3.382653	1.216071	-11.180666	-0.000014513615331	-0.000635521084825	0.000024162377212
219	massimi	-3.94583	1.733795	-10.472374	-0.000767923238647	-0.000732096213031	0.000011749747371
219	minimi	-4.265647	1.611235	-11.245197	-0.000823444081022	-0.000772324292688	0.000010073275969
220	massimi	0.095053	0.000256	-12.387284	-0.000351894124384	-0.000405066902104	-0.000017395793363
220	minimi	0.08527	-0.000881	-13.37653	-0.000383355858242	-0.000443061954623	-0.000019174498606
221	massimi	0.161513	-0.052528	-12.387284	-0.000351894124379	-0.000405066902093	-0.000017395793357
221	minimi	0.14603	-0.058384	-13.37653	-0.000383355858236	-0.000443061954611	-0.0000191744986
222	massimi	0.149529	-0.041895	-12.306707	-0.00042711092843	-0.00031931472637	-0.00001628308359
222	minimi	0.13516	-0.046662	-13.290515	-0.000464861112451	-0.000350054630263	-0.000017949716319
223	massimi	0.149619	-0.062813	-11.788319	-0.000426038093828	-0.000478470813657	-0.000016110645875
223	minimi	0.135242	-0.06972	-12.723503	-0.000463687646553	-0.000522562754416	-0.000017758052748
224	massimi	0.172335	-0.062586	-12.238659	-0.000267022836599	-0.000479402818201	-0.0000156312594
224	minimi	0.155851	-0.069469	-13.214106	-0.000291337656194	-0.00052357808652	-0.000017227841406
225	massimi	0.172426	-0.042122	-12.757047	-0.000265950001997	-0.000318382721826	-0.000015803697115
225	minimi	0.155932	-0.046913	-13.781118	-0.000290164190296	-0.00034903929816	-0.000017419504978
226	massimi	-1.109762	0.81887	-12.604871	-0.000389276658403	-0.00044499300314	-0.00025399713312
226	minimi	-1.195627	0.755859	-13.613786	-0.00042707750654	-0.000483449452934	-0.000279122779637
227	massimi	-2.017399	1.304462	-12.695379	-0.000201385199154	-0.000432422911573	-0.00048822244192
227	minimi	-2.164955	1.212382	-13.707367	-0.000210121064094	-0.000460955351386	-0.000534413577239
228	massimi	-2.402451	1.727444	-12.75725	-0.000445917619192	-0.000107530135668	-0.000652678509801
228	minimi	-2.585849	1.605438	-13.771396	-0.000490218992216	-0.000133975178254	-0.00071366030747
229	massimi	0.115796	-0.108975	-4.424044	-0.001785745064402	-0.000568611805896	0.000030647553161
229	minimi	0.104459	-0.117962	-4.705417	-0.001905854588274	-0.000613370492301	0.00002757893069
230	massimi	0.207802	-0.376837	-4.424044	-0.001785745064374	-0.000568611805881	0.000030647553151
230	minimi	0.18975	-0.403841	-4.705417	-0.001905854588245	-0.000613370492285	0.000027578930682

231	massimi	0.225025	-0.391841	-3.608047	-0.001785247261704	-0.000536341706626	0.000027109073986
231	minimi	0.20523	-0.420566	-3.838469	-0.00190549604278	-0.000578666502664	0.00002436817768
232	massimi	0.225653	-0.359333	-2.880361	-0.001783741272403	-0.000583548055476	0.000028434795187
232	minimi	0.205815	-0.384437	-3.053502	-0.00190387150845	-0.000629376185829	0.000025605251466
233	massimi	0.188573	-0.359039	-5.165684	-0.001733311301309	-0.00058827766702	0.000029116963137
233	minimi	0.172427	-0.384114	-5.492537	-0.001849738633576	-0.000634423911869	0.000026228161046
234	massimi	0.1892	-0.392136	-5.893369	-0.001731805312008	-0.000531612095081	0.00002791241937
234	minimi	0.173013	-0.420889	-6.277503	-0.001848114099246	-0.000573618776624	0.000024991087259
235	massimi	-1.108488	1.238178	-4.629278	-0.001516461848726	-0.001122938484159	-0.000295966182964
235	minimi	-1.194276	1.161406	-4.924136	-0.001627604297494	-0.00122384703466	-0.000323287328015
236	massimi	-1.668828	2.347077	-4.702929	-0.000927033437272	0.000009647455861	-0.000858835879686
236	minimi	-1.802441	2.194241	-5.00181	-0.000996031439619	0.000002274915064	-0.000932626319089
237	massimi	-2.408308	3.465429	-4.737893	-0.001473713926287	-0.001304884969922	-0.000770087818769
237	minimi	-2.592033	3.235014	-5.038627	-0.001581629469484	-0.001403273814756	-0.000841919256762
238	massimi	-0.018906	-0.110592	0.245253	-0.000763339116904	-0.00044462708019	0.000043928401876
238	minimi	-0.020256	-0.11972	0.197128	-0.000826061945062	-0.000488233295082	0.000040247359888
239	massimi	-1.688052	1.239838	0.177093	-0.001344034875651	-0.000950040797741	-0.000103438095308
239	minimi	-1.826942	1.162857	0.1302	-0.001439276435619	-0.001022470340672	-0.000115010603525
240	massimi	-2.938777	2.49543	0.144471	-0.000346618232827	-0.000586414148073	-0.000148966474412
240	minimi	-3.181308	2.329842	0.09906	-0.000374688628498	-0.000635938277765	-0.000160740536592
241	massimi	-3.964563	3.472727	0.123327	-0.001256763848182	-0.001069310935074	-0.000180933208677
241	minimi	-4.285724	3.241925	0.078958	-0.001341823553547	-0.001144689095145	-0.00019284878747
242	massimi	0.111847	-0.023444	-8.898761	-0.000489166404121	-0.000746123911815	0.000000866499765
242	minimi	0.10077	-0.025961	-9.55737	-0.000523510776564	-0.000808149735553	0.000000834993067
243	massimi	0.23307	-0.096819	-8.898761	-0.000489166404114	-0.000746123911796	0.000000866499765
243	minimi	0.212689	-0.104487	-9.55737	-0.000523510776556	-0.000808149735533	0.000000834993067
244	massimi	0.232712	-0.096848	-8.982499	-0.000539052967802	-0.000679044596901	0.00000028681725
244	minimi	0.212424	-0.104457	-9.652417	-0.000577428413255	-0.000735698068751	0.000000211876044
245	massimi	0.232875	-0.096148	-8.02764	-0.000537076831154	-0.000790458008281	0.000000604652702
245	minimi	0.212574	-0.103825	-8.61818	-0.000575287998929	-0.000855965357347	0.000000554885756
246	massimi	0.231719	-0.095817	-8.653655	-0.000426343981192	-0.000791753583511	0.000001320003221
246	minimi	0.211393	-0.103463	-9.288147	-0.000455774587095	-0.000857351894912	0.00000130286424
247	massimi	0.231882	-0.097178	-9.608514	-0.000424367844544	-0.000677749021671	0.000000985028788
247	minimi	0.211544	-0.104819	-10.322384	-0.000453634172769	-0.000734311531187	0.000000976993509
248	massimi	-1.111909	1.357448	-9.049506	-0.00068243920795	-0.00099226934102	0.000195104360878
248	minimi	-1.197998	1.265642	-9.720665	-0.000734415081921	-0.001079978980608	0.000181497032425
249	massimi	-1.752834	2.517005	-9.128488	-0.000547126365582	-0.0001265505035	0.000434019828376
249	minimi	-1.887017	2.343031	-9.80352	-0.00058909571365	-0.000130709930498	0.000401877808374
250	massimi	-2.410569	3.410831	-9.182266	-0.000751162180401	-0.001085444402488	0.000601768986408
250	minimi	-2.5946	3.172763	-9.860018	-0.000809525367835	-0.001176877202329	0.000556613246806
251	massimi	-0.019877	0.013372	-3.548294	-0.000537692347425	-0.001661430815398	0.000025676182371
251	minimi	-0.021317	0.012405	-3.784828	-0.000581799496635	-0.00177776296146	0.000023871823278
252	massimi	0.245348	-0.068249	-3.548294	-0.000537692347416	-0.001661430815364	0.000025676182363
252	minimi	0.229338	-0.073898	-3.784828	-0.000581799496626	-0.001777762961424	0.00002387182327
253	massimi	0.259746	-0.082041	-4.238686	-0.000551717895678	-0.001616797905478	0.000023028770394
253	minimi	0.242721	-0.088732	-4.519136	-0.000596913046244	-0.001729809058592	0.000021409181385
254	massimi	0.259861	-0.054004	-2.112455	-0.000547317534999	-0.001655415828608	0.00002327136132
254	minimi	0.242827	-0.058574	-2.244028	-0.000592204575593	-0.001771522639681	0.000021633228298
255	massimi	0.229207	-0.053648	-2.800572	-0.000511675874571	-0.001656839926585	0.000024076784024
255	minimi	0.214327	-0.058193	-2.988591	-0.000553658547769	-0.001773063557067	0.000022386093715
256	massimi	0.229322	-0.082398	-4.926802	-0.000507275513892	-0.001615373807501	0.000023834193098
256	minimi	0.214433	-0.089113	-5.263699	-0.000548950077119	-0.001728268141206	0.000022162046802
257	massimi	-1.688529	1.427482	-3.790322	-0.000873830650595	-0.00121555176345	0.000065557664312
257	minimi	-1.827366	1.318338	-4.044129	-0.000947880618309	-0.001309704596325	0.000063899554203
258	massimi	-2.879711	2.699284	-3.875462	-0.000430948916449	-0.000457504037874	0.000201915829351
258	minimi	-3.108562	2.500622	-4.136371	-0.000449651315648	-0.000493848871618	0.00018929063565
259	massimi	-3.960634	3.152869	-3.93348	-0.000259561945317	-0.001380329879575	0.000297656668634
259	minimi	-4.281572	2.960229	-4.199374	-0.000288610275615	-0.001500637484106	0.000277331182198
260	massimi	1.146274	-0.58758	-6.882475	0.00020722300023	0.000629859326422	0.000120448924475
260	minimi	1.021135	-0.653945	-7.237002	0.000189994539874	0.000606768699472	0.000105538953909
261	massimi	2.81114	-0.676769	-7.938968	0.000175183585631	0.001406602233755	0.000208718519694
261	minimi	2.508179	-0.751075	-8.464036	0.000158235165577	0.00134872895997	0.000186750845516
262	massimi	1.068083	-0.06573	-7.464065	0.000327359834054	-0.00050992132445	0.000157216990065
262	minimi	0.944353	-0.113173	-7.877682	0.000297561653484	-0.00052261497745	0.000145038720454
263	massimi	2.764037	0.053057	-10.902579	0.000337960913609	-0.00093871393726	0.000241520175317
263	minimi	2.464943	0.019775	-11.730448	0.000302777115829	-0.000955105780637	0.000219700754796
264	massimi	4.308762	-0.0449	-12.481896	0.000149380244333	-0.000862652240168	0.000127103165364
264	minimi	3.859896	-0.088318	-13.536448	0.000131818805064	-0.000866673116189	0.000115706501308
265	massimi	4.349011	-0.545806	-8.011984	0.00006167415456	0.001558885133475	0.000115196595433

265	minimi	3.896668	-0.601844	-8.546199	0.000055466621991	0.001484479897279	0.000105495752598
266	massimi	4.510407	-0.317097	-7.980433	0.000042189210192	0.001584143692835	-0.000051954906527
266	minimi	4.038882	-0.35197	-8.510491	0.000038409029362	0.001506893881981	-0.000056809683815
267	massimi	4.470084	-0.194194	-12.765173	0.000078127641647	-0.000839602801319	-0.000027819696857
267	minimi	4.002065	-0.253761	-13.857097	0.000069553491991	-0.000840623976982	-0.000031607889389
268	massimi	3.527403	-0.1889	-7.910769	-0.000014553723767	0.001539943441069	-0.000134650526802
268	minimi	3.141746	-0.205378	-8.425692	-0.000017003735328	0.00146548985069	-0.000152183353397
269	massimi	3.484106	-0.265156	-12.453942	-0.000026684646559	-0.000838586986775	-0.000107458621447
269	minimi	3.102066	-0.332813	-13.507716	-0.000028062098228	-0.000840845115455	-0.000119758291942
270	massimi	2.341732	-0.341768	-7.644371	-0.000045859311626	0.000915891908	-0.000007948523045
270	minimi	2.08798	-0.369817	-8.067911	-0.000046989553192	0.000865602838433	-0.000015898574763
271	massimi	2.271744	-0.242193	-11.058777	-0.000030224129429	-0.000377749064995	-0.000104198749206
271	minimi	2.021495	-0.308778	-11.928931	-0.000031635838089	-0.000387901664557	-0.000116745278015
272	massimi	0.035525	0.011434	-9.11828	0.000085712574551	0.000086561924968	0.000004443310271
272	minimi	0.031153	0.010941	-9.977202	0.000077955730404	0.000076852493819	0.000004198095934
273	massimi	0.022541	0.024291	-9.11828	0.00008571257455	0.000086561924967	0.00000444331027
273	minimi	0.019625	0.022634	-9.977202	0.000077955730403	0.000076852493819	0.000004198095933
274	massimi	0.025127	0.021585	-9.036167	0.000020842879779	0.000149033905961	0.00000407872314
274	minimi	0.022074	0.020078	-9.885489	0.000019024100362	0.000133629505428	0.000003855855079
275	massimi	0.02509	0.026835	-9.13452	0.000020613617334	0.000021451146506	0.000003998982515
275	minimi	0.022039	0.02504	-9.996267	0.000018820553703	0.000017732671948	0.000003781552764
276	massimi	0.019842	0.02687	-9.034756	0.000148198626325	0.000021678159415	0.000004072979118
276	minimi	0.017081	0.025071	-9.886576	0.00013471446522	0.00001793914057	0.000003845976666
277	massimi	0.019805	0.02155	-8.936403	0.00014796936388	0.000148806893052	0.000004152719742
277	minimi	0.017045	0.020047	-9.775798	0.00013451091856	0.000133423036806	0.000003920278981
278	massimi	0.326642	-0.23619	-9.247918	0.000165631844243	0.000015005954452	0.0000032857403
278	minimi	0.288522	-0.256477	-10.122336	0.000153911118196	0.000014432538562	0.000001463650163
279	massimi	0.025899	0.010639	-13.53936	0.000058296199157	0.000273054650682	0.00000290019479
279	minimi	0.023288	0.009908	-15.112349	0.000051352618135	0.000240628945928	0.00000276403995
280	massimi	-0.012806	0.019383	-13.53936	0.000058296199156	0.000273054650677	0.000002900194789
280	minimi	-0.015059	0.017611	-15.112349	0.000051352618135	0.000240628945924	0.000002764039949
281	massimi	-0.011107	0.017583	-13.292443	-0.000036978911242	0.000367519056702	0.000002716883783
281	minimi	-0.013269	0.015899	-14.833834	-0.000040779942789	0.00032489668048	0.000002585382506
282	massimi	-0.011134	0.021055	-13.60039	-0.000037616225864	0.000170266308683	0.000002653252643
282	minimi	-0.013299	0.019206	-15.183278	-0.000041503138084	0.00014902575697	0.000002527569295
283	massimi	-0.014394	0.021032	-13.534671	0.0001563184056	0.000170420708313	0.000002603816995
283	minimi	-0.016719	0.019186	-15.108673	0.000138756002969	0.000149161766269	0.000002485528442
284	massimi	-0.014421	0.017606	-13.226724	0.000155595210305	0.000367364657072	0.000002667448135
284	minimi	-0.016749	0.015919	-14.759229	0.000138118688347	0.000324760671181	0.000002543341653
285	massimi	0.747289	-0.172217	-13.757587	0.000132558787437	0.000121797246257	-0.000012796192161
285	minimi	0.656249	-0.195184	-15.360717	0.000117656685229	0.000116077810674	-0.000015861287004
286	massimi	0.034866	0.006191	-13.832938	0.000011216428454	0.000407050965728	0.000003613615397
286	minimi	0.031456	0.005976	-15.444474	0.000008066711798	0.000358870160812	0.000003428984373
287	massimi	-0.022374	0.007873	-13.832938	0.000011216428454	0.000407050965721	0.000003613615396
287	minimi	-0.026191	0.007186	-15.444474	0.000008066711797	0.000358870160806	0.000003428984372
288	massimi	-0.020255	0.005678	-13.479809	-0.000081442067337	0.000501665987113	0.000003370685248
288	minimi	-0.023949	0.005105	-15.046863	-0.000089220031959	0.000443271918313	0.000003193928938
289	massimi	-0.020266	0.010017	-13.939077	-0.000082392548169	0.00030002719697	0.000003344838442
289	minimi	-0.023962	0.009219	-15.56779	-0.000090298121427	0.000263528423948	0.000003170339424
290	massimi	-0.024334	0.009976	-13.928753	0.00011238905106	0.000300056904094	0.000003258857816
290	minimi	-0.028247	0.009184	-15.553436	0.000098280062044	0.000263549788931	0.000003096889832
291	massimi	-0.024345	0.005719	-13.469486	0.000111310961592	0.00050163627999	0.000003284704622
291	minimi	-0.02826	0.00514	-15.032509	0.000097329581212	0.000443250553329	0.000003120479345
292	massimi	1.091101	-0.032491	-14.055617	0.00003275932026	0.00018830889377	0.000002553934694
292	minimi	0.964028	-0.042851	-15.697852	0.000027148262984	0.000173843401423	0.000001650735945
293	massimi	0.015424	0.00028	-13.866058	0.000001834401147	0.000416320507487	0.000006468082509
293	minimi	0.013384	-0.000029	-15.482829	0.00000040169303	0.000366624618974	0.000006028651378
294	massimi	-0.04161	0.00034	-13.866058	0.000001834401147	0.000416320507479	0.000006468082507
294	minimi	-0.047024	0.000246	-15.482829	0.00000040169303	0.000366624618967	0.000006028651376
295	massimi	-0.037887	-0.003279	-13.502741	-0.000089204894085	0.000511042273643	0.000006010764525
295	minimi	-0.043021	-0.003638	-15.07291	-0.000098707238465	0.000451122939639	0.000005598942057
296	massimi	-0.037887	0.004129	-13.971932	-0.000090175912885	0.00030890741656	0.000006009955923
296	minimi	-0.043021	0.003957	-15.6057	-0.000099809878656	0.000270949928123	0.000005597825642
297	massimi	-0.045057	0.004056	-13.971418	0.000103422760139	0.000308912275039	0.000005855587263
297	minimi	-0.050714	0.003892	-15.603353	0.000090967053533	0.000270950992021	0.000005461228861
298	massimi	-0.045058	-0.003214	-13.502227	0.000102320119948	0.000511037415165	0.000005856395865
298	minimi	-0.050715	-0.003565	-15.070563	0.000089996034732	0.00045112187574	0.000005462345276
299	massimi	1.069193	-0.015989	-14.089212	0.000008837645329	0.000204279472971	0.000027797737654
299	minimi	0.941836	-0.021794	-15.736761	0.000006674858037	0.000187677771964	0.000026431785819

300	massimi	-0.029887	-0.007531	-13.794054	-0.000017628203078	0.000326122455063	0.000008879250536
300	minimi	-0.032537	-0.00861	-15.399481	-0.000017820122326	0.000284175093519	0.000008213206673
301	massimi	-0.072514	-0.010204	-13.794054	-0.000017628203078	0.000326122455055	0.000008879250534
301	minimi	-0.081455	-0.011254	-15.399481	-0.000017820122325	0.000284175093512	0.000008213206671
302	massimi	-0.067397	-0.015111	-13.472535	-0.000106769195416	0.000421627273954	0.000008260169073
302	minimi	-0.075913	-0.016561	-15.035634	-0.000117426640128	0.000369417042299	0.000007636254292
303	massimi	-0.067381	-0.005229	-13.836211	-0.000107521843613	0.000220675954418	0.00000829711423
303	minimi	-0.075896	-0.005873	-15.452993	-0.000118290387456	0.000190270207557	0.000007669750473
304	massimi	-0.077165	-0.005342	-13.859016	0.000083571368353	0.000220629265473	0.000008029714418
304	minimi	-0.086474	-0.006	-15.475552	0.000072424836577	0.000190223010307	0.000007431704344
305	massimi	-0.07715	-0.014998	-13.495341	0.000082707621025	0.000421673962899	0.000007992769261
305	minimi	-0.086457	-0.016434	-15.058194	0.00007167218838	0.000369464239549	0.000007398208163
306	massimi	0.680241	0.043941	-14.016133	-0.000042310557244	0.000215502472533	0.00004656754388
306	minimi	0.586398	0.042907	-15.652149	-0.000045410438739	0.000197782785622	0.000042834201872
307	massimi	-0.025347	0.053903	-7.223792	0.000086593079092	0.000175076189007	-0.000001745147771
307	minimi	-0.02847	0.049584	-7.596977	0.000076445644219	0.000167504809341	-0.000002053715031
308	massimi	-0.02542	0.052589	-7.303616	0.0000755836608	0.000097686407912	-0.000001937861819
308	minimi	-0.028549	0.048466	-7.680084	0.000066040528998	0.000094375965665	-0.000002269000652
309	massimi	-0.025499	0.051166	-7.341343	0.000085562449212	0.000020548346576	-0.000001930384768
309	minimi	-0.028635	0.047248	-7.718651	0.000075449940801	0.000019573340337	-0.000002254707859
310	massimi	-0.024439	0.049684	-7.288539	0.000121234241667	-0.000020839385375	-0.000001992595287
310	minimi	-0.027395	0.045976	-7.658279	0.000109174674691	-0.000024199106657	-0.000002323060716
311	massimi	-0.023368	0.049671	-7.21702	0.000161973290343	-0.000020204836904	-0.000001944630307
311	minimi	-0.026144	0.045965	-7.579472	0.000147684751464	-0.000023498870559	-0.000002276307778
312	massimi	-0.022277	0.049639	-7.126591	0.000202039811562	-0.000019482795803	-0.00000202102243
312	minimi	-0.024871	0.045936	-7.480662	0.000185581628059	-0.000022711266684	-0.000002354865437
313	massimi	-0.021177	0.051132	-7.016284	0.000237701224708	0.000021888813335	-0.00000201427538
313	minimi	-0.023587	0.047218	-7.362143	0.000219296898254	0.000021043497611	-0.000002348565952
314	massimi	-0.021254	0.052589	-6.978321	0.000246880668837	0.000097686407912	-0.000001928904246
314	minimi	-0.023671	0.048466	-7.323317	0.000227977480251	0.000094375965665	-0.000002258978783
315	massimi	-0.021329	0.053937	-6.898733	0.000236670594827	0.000173606031733	-0.000001829038383
315	minimi	-0.023752	0.049614	-7.240469	0.000218301194836	0.000166164342581	-0.000002147573124
316	massimi	-0.022357	0.055231	-6.891118	0.000201231142093	0.000216646950247	-0.000001764842784
316	minimi	-0.024958	0.050713	-7.23693	0.000184800363156	0.000206846297076	-0.000002076895741
317	massimi	-0.023368	0.055212	-6.981532	0.000161973290343	0.000217198509303	-0.000001924791497
317	minimi	-0.026144	0.050697	-7.335724	0.000147684751464	0.000207340292554	-0.000002254781524
318	massimi	-0.024359	0.055186	-7.053066	0.000122042911136	0.000218134790221	-0.000001736415641
318	minimi	-0.027309	0.050673	-7.414546	0.000109955939594	0.000208202886648	-0.000002045091021
319	massimi	0.05885	0.102018	-7.678267	0.000096200211923	0.000167159304742	0.000005993247749
319	minimi	0.051888	0.093886	-8.089116	0.000082650935741	0.00014465806313	0.000005380918124
320	massimi	0.058675	0.105798	-7.742108	0.000084508047574	0.000084183132288	0.000006062848084
320	minimi	0.051728	0.097278	-8.165397	0.00007171392869	0.000066403726056	0.000005436977276
321	massimi	0.058518	0.109359	-7.760976	0.000095312047512	0.000000583656197	0.000005588890561
321	minimi	0.051583	0.10047	-8.193971	0.000081950350901	-0.000012342273455	0.000005009122225
322	massimi	0.055373	0.112858	-7.68242	0.000133493353962	-0.000046222160625	0.000005570329362
322	minimi	0.048764	0.103604	-8.114569	0.000117938535791	-0.00005643011483	0.000004989661271
323	massimi	0.052223	0.112908	-7.605374	0.000177047661296	-0.000045431071303	0.000006035344653
323	minimi	0.045941	0.103648	-8.028206	0.000158937866383	-0.000055705264048	0.000005411992385
324	massimi	0.04903	0.112949	-7.508132	0.000219866848618	-0.000044595851474	0.000005633859255
324	minimi	0.04308	0.103683	-7.920423	0.000199277270684	-0.000054970157072	0.000005045548684
325	massimi	0.045795	0.109426	-7.411149	0.000258036814473	0.000002190636017	0.000005776372903
325	minimi	0.040181	0.100529	-7.804284	0.000235255274983	-0.000010899667876	0.00000517405093
326	massimi	0.045634	0.105798	-7.392027	0.000267967073792	0.000084183132288	0.000006042829788
326	minimi	0.040033	0.097278	-7.775427	0.000244707265299	0.000066403726056	0.000005419367129
327	massimi	0.045463	0.101951	-7.32844	0.000257148650062	0.000165552324922	0.000006180730091
327	minimi	0.039875	0.093827	-7.699429	0.000234554690143	0.000143215457551	0.000005545846829
328	massimi	0.048856	0.098028	-7.342452	0.000219169962116	0.000211723638239	0.000006193076695
328	minimi	0.042919	0.090304	-7.710381	0.000198727566022	0.000186800696838	0.000005559734548
329	massimi	0.052223	0.098095	-7.439683	0.000177047661296	0.000212355443649	0.000006078648571
329	minimi	0.045941	0.090363	-7.818151	0.000158937866383	0.000187375350348	0.000005451809209
330	massimi	0.055547	0.098119	-7.516739	0.000134190240464	0.000213349947389	0.000006129546801
330	minimi	0.048924	0.090384	-7.904528	0.000118488240454	0.000188260654595	0.000005503847136
331	massimi	-0.058536	0.027759	-8.958356	-0.000017997549533	0.000265580965093	0.000001487595951
331	minimi	-0.068485	0.02529	-9.523776	-0.000019682901523	0.000252322946558	0.000001482325873
332	massimi	-0.058577	0.028653	-9.084013	-0.000032317245825	0.000164716901702	0.000001356049695
332	minimi	-0.068529	0.026192	-9.655488	-0.000033087169143	0.000158033693379	0.000001325547758
333	massimi	-0.058619	0.029488	-9.155196	-0.000019735377388	0.000062633246858	0.000001387489953
333	minimi	-0.068575	0.027041	-9.72894	-0.000021350218912	0.000062574332339	0.000001372815955
334	massimi	-0.05939	0.03027	-9.174724	0.000027132450667	0.000008706620827	0.000001296259621

334	minimi	-0.069337	0.027843	-9.745444	0.000022479967533	0.000005041875124	0.000001268010098
335	massimi	-0.060129	0.030211	-9.147316	0.000080492084468	0.00000893940859	0.000001363153038
335	minimi	-0.070064	0.027792	-9.714445	0.00007238673737	0.000005310149667	0.000001334031922
336	massimi	-0.060819	0.030149	-9.095346	0.000133517508001	0.000009371544539	0.000001223111401
336	minimi	-0.070732	0.027739	-9.657178	0.000121992951058	0.000005781252219	0.000001182776808
337	massimi	-0.061486	0.029397	-8.99587	0.000180380178092	0.000063363836595	0.000001171624122
337	minimi	-0.071373	0.026963	-9.551774	0.000165818498933	0.000063231353557	0.000001121286184
338	massimi	-0.061524	0.028653	-8.924572	0.000192564815064	0.000164716901702	0.000001379099163
338	minimi	-0.071414	0.026192	-9.478194	0.000177198217891	0.000158033693379	0.000001352405308
339	massimi	-0.061568	0.027849	-8.799031	0.000178642350237	0.000264850375356	0.00000127173012
339	minimi	-0.071463	0.025367	-9.34661	0.000164151181544	0.00025166592534	0.000001230796103
340	massimi	-0.060862	0.026989	-8.701044	0.000132153945431	0.000321229287003	0.00000136155631
340	minimi	-0.070779	0.024492	-9.246201	0.000120684713549	0.000304370899335	0.000001334227181
341	massimi	-0.060129	0.026934	-8.752988	0.000080492084468	0.000321302375418	0.000001373874351
341	minimi	-0.070064	0.024445	-9.303441	0.00007238673737	0.000304421170136	0.000001345760392
342	massimi	-0.059347	0.026868	-8.780422	0.000028496013237	0.000321968664098	0.00000143470453
342	minimi	-0.06929	0.024388	-9.334467	0.000023788205041	0.000305035823047	0.00000141946047
343	massimi	0.038835	0.085065	-11.288296	0.000002136553987	0.000323127386819	0.000005629705696
343	minimi	0.032766	0.077585	-12.083159	-0.000005267052962	0.000283302019173	0.000005090678716
344	massimi	0.038688	0.088609	-11.424194	-0.00001632195901	0.000192614082556	0.000005682753674
344	minimi	0.032632	0.080788	-12.240773	-0.000022302940951	0.000162065529279	0.000005132557428
345	massimi	0.038557	0.09197	-11.490158	0.000000104401363	0.000060674636797	0.000005291043782
345	minimi	0.032512	0.083825	-12.323071	-0.000006976906605	0.000039629083634	0.000004781908129
346	massimi	0.035586	0.095276	-11.478591	0.000060638358052	-0.000013664651638	0.000005261986922
346	minimi	0.029827	0.08681	-12.317659	0.000049221235504	-0.000029347481941	0.000004752363501
347	massimi	0.032616	0.095307	-11.432316	0.000129551738861	-0.000013176212165	0.000005662267406
347	minimi	0.027144	0.086836	-12.263595	0.000113136127944	-0.000028906523696	0.00000511434324
348	massimi	0.029619	0.095332	-11.354529	0.000197927207589	-0.000012474626439	0.000005301664687
348	minimi	0.024439	0.086857	-12.175596	0.0001765812676	-0.000028308245846	0.000004785384926
349	massimi	0.026592	0.092012	-11.241142	0.000258452865984	0.000061850518074	0.000005408136379
349	minimi	0.021707	0.08386	-12.037923	0.000232772162898	0.000040655967995	0.000004879357281
350	massimi	0.026458	0.088609	-11.174997	0.000274239880907	0.000192614082556	0.000005670251194
350	minimi	0.021585	0.080788	-11.955419	0.0002475398638	0.000162065529279	0.000005122152363
351	massimi	0.026314	0.085023	-11.03928	0.000256420713359	0.000321951505543	0.000005746798293
351	minimi	0.021453	0.07755	-11.798012	0.000231062309255	0.000282275134812	0.000005188127868
352	massimi	0.029474	0.081368	-10.950167	0.00019633270581	0.000394869109068	0.000005770026951
352	minimi	0.024306	0.074247	-11.695014	0.000175239653471	0.000350055043372	0.000005212408117
353	massimi	0.032616	0.081414	-11.027928	0.000129551738861	0.000395105275173	0.000005698535805
353	minimi	0.027144	0.074287	-11.782982	0.000113136127944	0.000350261717056	0.00000514741048
354	massimi	0.035732	0.081424	-11.07423	0.000062232859831	0.000396059134267	0.000005730349186
354	minimi	0.02996	0.074294	-11.837077	0.000050562849634	0.000351094279468	0.000005179386691
355	massimi	0.092417	0.142352	-11.454609	-0.000193338871665	0.000184397218293	0.000020109596871
355	minimi	0.080465	0.131892	-12.209836	-0.000202933263737	0.000158456953057	0.00001847843094
356	massimi	0.09233	0.148927	-11.49639	-0.000200052329969	0.000125984285448	0.000020374992887
356	minimi	0.080385	0.137933	-12.259367	-0.000210140525898	0.000103848443139	0.000018712749837
357	massimi	0.092254	0.15541	-11.522041	-0.000193646343864	0.000067368438224	0.000019810624428
357	minimi	0.080314	0.143888	-12.291641	-0.000203306275254	0.000049072671548	0.000018201529837
358	massimi	0.085773	0.161863	-11.589033	-0.000157035306183	0.000028145348156	0.000019754711559
358	minimi	0.07436	0.149815	-12.366889	-0.000164137150049	0.00001241371589287	0.000018145704003
359	massimi	0.079292	0.161903	-11.630278	-0.000102143673889	0.00002077577132	0.000020379547877
359	minimi	0.068406	0.149849	-12.409753	-0.000105391165213	0.000005531005619	0.000018717297736
360	massimi	0.072761	0.16195	-11.655358	-0.000046475433946	0.000027833308299	0.000019913890114
360	minimi	0.062409	0.14989	-12.435322	-0.00004708752568	0.000012111164531	0.000018283028822
361	massimi	0.066182	0.155461	-11.654803	-0.000007233408458	0.000067080136825	0.000020097135155
361	minimi	0.05637	0.143932	-12.428625	-0.000010405834043	0.00004879325378	0.000018448705305
362	massimi	0.066109	0.148927	-11.62917	-0.00000022351714	0.000125984285448	0.000020364619663
362	minimi	0.056302	0.137933	-12.396368	-0.000003829619402	0.000103848443139	0.00001870380076
363	massimi	0.066019	0.1423	-11.587372	-0.000007606419975	0.000184685519692	0.000020396107599
363	minimi	0.056219	0.131847	-12.34682	-0.000010713306242	0.000158736370825	0.000018725606408
364	massimi	0.072664	0.135628	-11.52038	-0.000046820068581	0.000223845203436	0.000020452020468
364	minimi	0.062319	0.12572	-12.271572	-0.000047371606906	0.000195346626909	0.000018781432242
365	massimi	0.079292	0.135681	-11.495282	-0.000102143673889	0.000230692780077	0.000020360064673
365	minimi	0.068406	0.125766	-12.245982	-0.000105391165213	0.000201753716186	0.00001869925286
366	massimi	0.08587	0.135715	-11.454055	-0.000156751224957	0.000223533163579	0.000020292841912
366	minimi	0.074449	0.125795	-12.203139	-0.000163792515414	0.000195044202153	0.000018644107423
367	massimi	-0.065117	0.006431	-9.073185	-0.000078694515837	0.000363794551984	0.000001562553692
367	minimi	-0.075748	0.005971	-9.654005	-0.000083305889105	0.000340226183364	0.000001363446405
368	massimi	-0.065127	0.007375	-9.252993	-0.000092765043406	0.000260536914786	0.000001434892263
368	minimi	-0.075758	0.006795	-9.846214	-0.000098373348125	0.000243810035657	0.000001253337895

369	massimi	-0.065139	0.008305	-9.376864	-0.000081266807247	0.000155350218755	0.000001534364868
369	minimi	-0.075771	0.007606	-9.978519	-0.000086054655644	0.000145588677724	0.00000133747507
370	massimi	-0.065875	0.009197	-9.480299	-0.000036093202097	0.000095702161035	0.000001436342027
370	minimi	-0.076615	0.008384	-10.088401	-0.000037679260592	0.000089887347958	0.000001252839317
371	massimi	-0.066579	0.009129	-9.484465	0.000017522005375	0.000095568384191	0.000001449217547
371	minimi	-0.077422	0.008326	-10.092329	0.000015454121424	0.000089757628314	0.00000126557754
372	massimi	-0.067227	0.009063	-9.463352	0.000072650518423	0.000095863113128	0.00000134215733
372	minimi	-0.078164	0.008269	-10.069187	0.000066937278062	0.000090029305065	0.000001171845493
373	massimi	-0.067848	0.008205	-9.342849	0.000121024790658	0.000155509257962	0.000001256418829
373	minimi	-0.078874	0.00752	-9.939952	0.000112109892907	0.000145728947697	0.000001098456276
374	massimi	-0.067855	0.007375	-9.218953	0.000133257011383	0.000260536914786	0.000001464570459
374	minimi	-0.078882	0.006795	-9.80762	0.000123531862395	0.000243810035657	0.000001278859563
375	massimi	-0.067869	0.006531	-9.03917	0.000118276024119	0.000363635512777	0.000001284607652
375	minimi	-0.078898	0.006056	-9.615439	0.000109537601497	0.000340085913391	0.000001124427612
376	massimi	-0.067238	0.005645	-8.855034	0.000070493736809	0.00042137777827	0.000001381141998
376	minimi	-0.078176	0.005282	-9.419134	0.000064918965216	0.000394003908312	0.000001207763412
377	massimi	-0.066579	0.005581	-8.876107	0.000017522005375	0.000421042957676	0.000001452236559
377	minimi	-0.077422	0.005227	-9.442234	0.000015454121424	0.000393686454015	0.00000126835906
378	massimi	-0.065864	0.005511	-8.87198	-0.00003407488925	0.000421538729919	0.000001475326695
378	minimi	-0.076603	0.005167	-9.438348	-0.000035522478979	0.000394145865418	0.000001288757237
379	massimi	0.023314	0.047847	-12.523031	-0.000123365390172	0.000394374919664	0.000002446793312
379	minimi	0.01822	0.04366	-13.503211	-0.000128842323886	0.000349930685692	0.000002272678637
380	massimi	0.023233	0.049388	-12.695335	-0.000142534197067	0.000246101467455	0.000002461587549
380	minimi	0.018146	0.045091	-13.699356	-0.000149724444276	0.000213200437898	0.000002280963493
381	massimi	0.023159	0.050828	-12.788584	-0.000125614736761	0.000096005845704	0.00000225803254
381	minimi	0.018079	0.046428	-13.809744	-0.000131438788986	0.000074891624366	0.000002100342274
382	massimi	0.021886	0.052237	-12.859	-0.000061906235708	0.000011066011729	0.00000224508699
382	minimi	0.016896	0.047736	-13.892695	-0.000062319527159	-0.000003368010249	0.000002084819686
383	massimi	0.020612	0.052257	-12.871157	0.000016173677568	0.000010986936482	0.000002449217616
383	minimi	0.015713	0.047752	-13.903196	0.000010394181283	-0.000003445117695	0.000002270288628
384	massimi	0.019321	0.052272	-12.847602	0.00009459972753	0.000011214578503	0.000002270162018
384	minimi	0.014517	0.047763	-13.874959	0.00008265144057	-0.000003272532274	0.000002103934571
385	massimi	0.018013	0.050854	-12.765706	0.000163717953369	0.000096152646703	0.000002332031167
385	minimi	0.013307	0.046448	-13.774146	0.000146359275835	0.000074985967547	0.000002156751993
386	massimi	0.017938	0.049388	-12.672441	0.00018192379061	0.000246101467455	0.000002453686397
386	minimi	0.013238	0.045091	-13.663731	0.000163227440245	0.000213200437898	0.000002274940384
387	massimi	0.017858	0.04782	-12.500153	0.00016112148827	0.000394228118666	0.000002520791939
387	minimi	0.013165	0.04364	-13.467613	0.000144109929246	0.000349836342511	0.000002329088356
388	massimi	0.01924	0.046215	-12.315656	0.000092562445404	0.000477367783042	0.000002531214173
388	minimi	0.014443	0.042155	-13.260923	0.00008088652041	0.000426536865101	0.000002342272116
389	massimi	0.020612	0.046242	-12.339177	0.000016173677568	0.000477000762148	0.000002469432617
389	minimi	0.015713	0.042177	-13.28912	0.000010394181283	0.000426194287427	0.000002288744686
390	massimi	0.021968	0.046251	-12.327054	-0.000060141315548	0.000477516349816	0.000002506139146
390	minimi	0.01697	0.042182	-13.278659	-0.000060282245033	0.000426632343076	0.000002323157231
391	massimi	0.05955	0.134331	-14.244389	-0.000105870352602	0.000458518310928	0.000006656033238
391	minimi	0.050708	0.124453	-15.284692	-0.000107271813873	0.000393588299637	0.00000569779792
392	massimi	0.059474	0.136513	-14.360049	-0.000114695577905	0.00038473098266	0.000006710083264
392	minimi	0.050638	0.126321	-15.420508	-0.000116831391707	0.000325043136133	0.000005733937409
393	massimi	0.0594	0.138611	-14.455449	-0.000106832733211	0.000310323994186	0.000006381981892
393	minimi	0.05057	0.128111	-15.534508	-0.000108410916953	0.000255974447605	0.000005444207122
394	massimi	0.057304	0.140675	-14.55842	-0.000058870178242	0.000260697194864	0.000006316698596
394	minimi	0.048781	0.129869	-15.654508	-0.000060829105088	0.00020989697133	0.000005380511076
395	massimi	0.055208	0.140706	-14.565845	0.000015744347546	0.000251423007193	0.000006715401623
395	minimi	0.046992	0.129895	-15.660336	0.000008417670104	0.00020130156013	0.000005739126462
396	massimi	0.053077	0.140736	-14.552955	0.000090333514977	0.000260743810383	0.000006427528023
396	minimi	0.045175	0.12992	-15.644285	0.000077650887523	0.000209921894183	0.000005474848415
397	massimi	0.050912	0.138647	-14.444508	0.000139863363142	0.000310367063427	0.00000658146743
397	minimi	0.043327	0.128141	-15.514044	0.000123648693046	0.000255997474451	0.000005614008006
398	massimi	0.050841	0.136513	-14.349107	0.000148257599001	0.00038473098266	0.000006702860818
398	minimi	0.043261	0.126321	-15.400041	0.00013149750919	0.000325043136133	0.000005727789706
399	massimi	0.050763	0.134295	-14.233449	0.000138724260062	0.000458475241688	0.00000685518777
399	minimi	0.043189	0.124422	-15.264228	0.000122686312437	0.000393565272792	0.000005867598805
400	massimi	0.052988	0.132038	-14.130477	0.00008928106926	0.000507832371878	0.000006920802073
400	minimi	0.045092	0.122488	-15.144227	0.000076761720099	0.000439416016978	0.00000593129485
401	massimi	0.055208	0.132073	-14.143312	0.000015744347546	0.0005165119979	0.000006697542458
401	minimi	0.046992	0.122518	-15.160213	0.000008417670104	0.000447494647225	0.000005722600653
402	massimi	0.057393	0.132098	-14.135942	-0.000057817732524	0.000507878987398	0.000006809972646
402	minimi	0.048863	0.122539	-15.15445	-0.000059939937664	0.000439440939831	0.000005836957511
403	massimi	-0.08563	0.002858	-9.064825	-0.000088097878651	0.000357398263154	-0.00000430695782

403	minimi	-0.098137	0.002672	-9.643624	-0.000094081649771	0.000333699164458	-0.000004722937023
404	massimi	-0.085622	-0.000078	-9.24058	-0.000102107844646	0.000254194837511	-0.000004594437675
404	minimi	-0.098127	-0.00016	-9.831867	-0.000109085257909	0.000237325604521	-0.000005046663031
405	massimi	-0.08563	-0.002827	-9.360427	-0.000090601756771	0.000149109310833	-0.000004306661097
405	minimi	-0.098136	-0.003177	-9.960238	-0.00009676350491	0.000139194846169	-0.00000472232724
406	massimi	-0.083227	-0.005617	-9.465019	-0.000045446843462	0.000089501194577	-0.000004400138114
406	minimi	-0.095501	-0.006239	-10.072131	-0.000048408914206	0.000083531180224	-0.000004829797788
407	massimi	-0.080796	-0.005681	-9.474341	0.000006728784554	0.000089325480662	-0.000004582080924
407	minimi	-0.092832	-0.006313	-10.081972	0.000006041698871	0.000083366041968	-0.000005032291528
408	massimi	-0.078297	-0.005757	-9.458394	0.000061838544805	0.000089563003253	-0.000004498427074
408	minimi	-0.090087	-0.0064	-10.064752	0.000057505155534	0.000083586677529	-0.000004942729401
409	massimi	-0.075754	-0.002932	-9.347129	0.000110192704325	0.000149170384925	-0.000004596719118
409	minimi	-0.08729	-0.003297	-9.945428	0.000102659681689	0.000139249683899	-0.000005055596822
410	massimi	-0.075757	-0.000078	-9.227273	0.00012248125052	0.000254194837511	-0.000004563466201
410	minimi	-0.087293	-0.00016	-9.817045	0.000114135953552	0.000237325604521	-0.000005011077564
411	massimi	-0.075754	0.002978	-9.051527	0.000107510849187	0.000357337189062	-0.000004597015841
411	minimi	-0.08729	0.002777	-9.628814	0.000100155803568	0.000333644326728	-0.000005056206604
412	massimi	-0.078297	0.006082	-8.866254	0.000059734264295	0.000415087035833	-0.000004498837437
412	minimi	-0.090086	0.005602	-9.430523	0.000055540522228	0.000387573070523	-0.000004943572721
413	massimi	-0.080796	0.005995	-8.882163	0.000006728784554	0.000414710334032	-0.000004582112703
413	minimi	-0.092832	0.005526	-9.447702	0.000006041698871	0.00038722024371	-0.000005032356836
414	massimi	-0.083227	0.005921	-8.872879	-0.000043482210156	0.000415148844509	-0.000004400548478
414	minimi	-0.095501	0.005462	-9.437902	-0.000046304633696	0.000387628567828	-0.000004830641107
415	massimi	-0.003211	0.02356	-12.704575	-0.000178244085703	0.000395370858716	-0.000001593806824
415	minimi	-0.006292	0.021979	-13.707972	-0.000191375781661	0.000350511492904	-0.000001779788742
416	massimi	-0.003244	0.022436	-12.876409	-0.000197638422148	0.000244210453412	-0.000001689722219
416	minimi	-0.006323	0.02097	-13.903797	-0.000212513866274	0.000211227345069	-0.000001877198981
417	massimi	-0.003281	0.021265	-12.967671	-0.000180472615404	0.000091241879898	-0.00000167395396
417	minimi	-0.006358	0.019918	-14.012149	-0.000193952295835	0.000070379240552	-0.000001865536886
418	massimi	-0.002252	0.020072	-13.064552	-0.000115482892731	0.000004536713109	-0.000001693785813
418	minimi	-0.005434	0.018844	-14.125501	-0.000123382736883	-0.000009439244441	-0.000001882445412
419	massimi	-0.001224	0.020076	-13.105716	-0.000041853389733	0.000004189420078	-0.000001694309629
419	minimi	-0.004509	0.018845	-14.169066	-0.000043384923553	-0.000009751245897	-0.00000188284525
420	massimi	-0.000194	0.020069	-13.110447	0.000036793028421	0.000004138191617	-0.000001699271149
420	minimi	-0.003581	0.018836	-14.173076	0.000031949892824	-0.000009823697702	-0.000001588439403
421	massimi	0.000837	0.021263	-13.059791	0.000107365366347	0.000090848094992	-0.000001690142676
421	minimi	-0.002649	0.019912	-14.107641	0.00009694229637	0.00006999935667	-0.000001869929968
422	massimi	0.0008	0.022436	-12.968597	0.000126141043934	0.000244210453412	-0.00000168799368
422	minimi	-0.002684	0.02097	-13.999358	0.000114314652054	0.000211227345069	-0.000001876729912
423	massimi	0.000767	0.023562	-12.796696	0.000104788852172	0.000395764643622	-0.000001609995541
423	minimi	-0.002715	0.021985	-13.803463	0.00009471376667	0.000350891376785	-0.000001784181824
424	massimi	-0.000231	0.02467	-12.583424	0.000034771400525	0.000480689961891	-0.000001588429696
424	minimi	-0.003616	0.022982	-13.563758	0.000030201306361	0.000429170872442	-0.000001765346173
425	massimi	-0.001224	0.02467	-12.578659	-0.000041853389733	0.000480048639834	-0.000001685726413
425	minimi	-0.004509	0.022978	-13.559709	-0.000043384923553	0.00042858802519	-0.000001873662204
426	massimi	-0.002215	0.024668	-12.537528	-0.000113734306267	0.000480291440399	-0.00000158294402
426	minimi	-0.005399	0.022974	-13.516183	-0.000121361108987	0.000428786419181	-0.000001763857542
427	massimi	0.080947	0.02128	-15.433317	-0.000437846501301	0.000167569920395	0.000000301843772
427	minimi	0.072343	0.020103	-16.564902	-0.000472190728394	0.00012240003336	-0.000001849908069
428	massimi	0.080938	0.020698	-15.459813	-0.000446786460923	0.000086953218295	0.000000422041201
428	minimi	0.072333	0.02022	-16.605053	-0.00048187234629	0.000047526244323	-0.000001739744128
429	massimi	0.080924	0.020324	-15.464177	-0.000437987215966	0.00000619646652	0.000000261252433
429	minimi	0.072321	0.020104	-16.621364	-0.000472448177582	-0.000027424092025	-0.000001891460052
430	massimi	0.081542	0.02043	-15.581296	-0.000387753497493	-0.00004801291811	0.000000302932917
430	minimi	0.072235	0.01951	-16.759351	-0.000418337753546	-0.000077741804698	0.0000001842129774
431	massimi	0.082136	0.02047	-15.693883	-0.000312600607034	-0.000058418766309	0.000000418645665
431	minimi	0.07213	0.019556	-16.88083	-0.000337342355827	-0.000087374263965	-0.000001743762861
432	massimi	0.082678	0.020509	-15.784276	-0.000236944231894	-0.00004901171398	0.000000447734198
432	minimi	0.07198	0.0196	-16.978397	-0.000255803623562	-0.000078667345738	-0.000001677241757
433	massimi	0.083195	0.020371	-15.870482	-0.00018649428398	0.000005273654129	0.000000521885031
433	minimi	0.071805	0.020157	-17.059828	-0.000201459855933	-0.000028279222454	-0.000001594672678
434	massimi	0.083184	0.020698	-15.866172	-0.000177174071434	0.000086953218295	0.000000412604904
434	minimi	0.071796	0.02022	-17.043574	-0.000191473486033	0.000047526244323	-0.000001750489422
435	massimi	0.083172	0.021227	-15.839622	-0.000186634998645	0.000168492732785	0.00000056247637
435	minimi	0.071783	0.020056	-17.003367	-0.00020171730512	0.00012325516379	-0.000001553120695
436	massimi	0.082665	0.021758	-15.722503	-0.000237074241678	0.000222717954352	0.000000520795886
436	minimi	0.071967	0.019893	-16.865379	-0.00025604148728	0.000173610412623	-0.000001602450973
437	massimi	0.082136	0.021803	-15.632102	-0.000312600607034	0.000231980093948	0.00000041600044
437	minimi	0.07213	0.019933	-16.767797	-0.000337342355826	0.000182238125524	-0.000001746470688

438	massimi	0.081555	0.021848	-15.519523	-0.000387623487708	0.000221719158482	0.000000375994605
438	minimi	0.072248	0.019972	-16.646333	-0.000418099889827	0.000172684871582	-0.00000176733899
439	massimi	-0.1181	-0.001984	-8.987683	-0.00011421964396	0.000246003598442	-0.000012010474618
439	minimi	-0.133749	-0.002407	-9.551643	-0.000119945762884	0.000231310743201	-0.000012843125009
440	massimi	-0.118067	-0.009593	-9.099934	-0.00012466345325	0.000144048056552	-0.000012547944095
440	minimi	-0.133713	-0.010547	-9.670825	-0.000134101049202	0.000136002227423	-0.000013432484473
441	massimi	-0.11807	-0.017182	-9.157081	-0.000112856841186	0.000041025958791	-0.000011973810697
441	minimi	-0.133716	-0.018664	-9.731062	-0.000121465526324	0.000039686728437	-0.000012802815759
442	massimi	-0.111402	-0.024822	-9.212257	-0.000068432089749	-0.000014855493165	-0.000012084622217
442	minimi	-0.126586	-0.02684	-9.789602	-0.000073945044747	-0.000017313770431	-0.000012929940758
443	massimi	-0.104709	-0.024897	-9.234638	-0.000018104096261	-0.000015010397378	-0.000012534515935
443	minimi	-0.119425	-0.026927	-9.813954	-0.000020115580148	-0.000017481180406	-0.000013416646146
444	massimi	-0.097929	-0.025003	-9.232109	0.000033797406122	-0.000015021792177	-0.000012212002069
444	minimi	-0.112165	-0.027047	-9.81166	0.000032299067039	-0.000017498546354	-0.000013075222725
445	massimi	-0.091079	-0.017317	-9.196928	0.00008319176713	0.000040843378895	-0.000012349718106
445	minimi	-0.104827	-0.018818	-9.775338	0.000076724978593	0.000039522405858	-0.000013231553637
446	massimi	-0.091076	-0.009593	-9.139811	0.000094053970736	0.000144048056552	-0.000012507805896
446	minimi	-0.104822	-0.010547	-9.715133	0.000088620935054	0.000136002227423	-0.000013386705205
447	massimi	-0.091049	-0.001849	-9.02753	0.000079799413273	0.000246186178338	-0.000012386382027
447	minimi	-0.104794	-0.002253	-9.595918	0.000075290101804	0.00023147506578	-0.000013271862887
448	massimi	-0.097913	0.006015	-8.892777	0.000032604944777	0.000303475468943	-0.000012262707654
448	minimi	-0.112147	0.005873	-9.452253	0.000031173210829	0.00028502542426	-0.000013130969739
449	massimi	-0.104709	0.005892	-8.895283	-0.000018104096261	0.000303110032079	-0.000012538442626
449	minimi	-0.119425	0.005764	-9.454523	-0.000020115580148	0.000284685400106	-0.000013420963251
450	massimi	-0.111418	0.005808	-8.872924	-0.000067306233538	0.00030329069302	-0.000012135327802
450	minimi	-0.126603	0.005692	-9.430194	-0.000072752583401	0.000284859125248	-0.000012985687772
451	massimi	-0.021875	-0.002176	-12.406597	-0.000234450133613	0.000292632905714	-0.000002763818467
451	minimi	-0.022184	-0.002724	-13.374892	-0.000253329288799	0.000256969144905	-0.000003365269856
452	massimi	-0.021862	-0.003924	-12.521221	-0.00025277904372	0.00014518196763	-0.000002873957751
452	minimi	-0.022173	-0.00485	-13.507906	-0.000273288484329	0.000121002925688	-0.000003488776937
453	massimi	-0.02186	-0.005664	-12.557313	-0.000235726761	-0.000003343917964	-0.000002748819411
453	minimi	-0.022171	-0.006966	-13.555724	-0.000254861014376	-0.000015859216045	-0.000003346734189
454	massimi	-0.019997	-0.007413	-12.631907	-0.000172403426901	-0.00008755336014	-0.000002767148643
454	minimi	-0.020641	-0.00909	-13.644824	-0.000186151061471	-0.000093437910823	-0.000003362913603
455	massimi	-0.018132	-0.007426	-12.70507	-0.000101027391465	-0.000088084466857	-0.000002871464209
455	minimi	-0.019107	-0.009101	-13.723681	-0.000108661715636	-0.000093915950723	-0.000003486703302
456	massimi	-0.016252	-0.007446	-12.742692	-0.000029231879959	-0.000088551495564	-0.000002790391969
456	minimi	-0.017557	-0.009121	-13.76398	-0.000030721195236	-0.00009436591953	-0.000003384971053
457	massimi	-0.014358	-0.005689	-12.779677	0.000037995717876	-0.000004330190152	-0.000002817412525
457	minimi	-0.015993	-0.006989	-13.794892	0.00003409792534	-0.000016776195	-0.000003411827678
458	massimi	-0.014353	-0.003924	-12.743747	0.000056959439786	0.00014518196763	-0.00000286663377
458	minimi	-0.015989	-0.00485	-13.747247	0.000051648784176	0.000121002925688	-0.000003481826625
459	massimi	-0.014342	-0.002152	-12.628961	0.0000364639923	0.000293619177902	-0.000002832411582
459	minimi	-0.015981	-0.0027	-13.61406	0.000032821297952	0.00025788612386	-0.000003430363344
460	massimi	-0.016244	-0.00038	-12.440783	-0.000030233568817	0.00037677955585	-0.000002811135348
460	minimi	-0.01755	-0.00055	-13.401744	-0.000031923043525	0.00033459161098	-0.000003410605488
461	massimi	-0.018132	-0.000401	-12.403142	-0.000101027391465	0.000375961719272	-0.000002873070506
461	minimi	-0.019107	-0.000571	-13.361421	-0.000108661715637	0.0003338492589	-0.000003488688346
462	massimi	-0.020005	-0.000413	-12.329999	-0.000171401738043	0.000375781420426	-0.000002787892021
462	minimi	-0.020647	-0.000582	-13.282588	-0.000184949213182	0.000333663602273	-0.000003388548038
463	massimi	0.155989	-0.074872	-14.47564	-0.000568938969292	-0.000471516649819	0.000004773628803
463	minimi	0.143317	-0.080885	-15.504684	-0.000611293435805	-0.000477170472735	0.000003286611808
464	massimi	0.156035	-0.073278	-14.31015	-0.000576249120575	-0.000541376657884	0.000005177171757
464	minimi	0.143358	-0.079772	-15.336437	-0.000619194796607	-0.000552235674701	0.000003702910609
465	massimi	0.156076	-0.071637	-14.12411	-0.000567336073124	-0.000610364707135	0.000004920733895
465	minimi	0.143397	-0.078609	-15.146103	-0.000609658388497	-0.000626411427969	0.000003446754871
466	massimi	0.154964	-0.069958	-14.094984	-0.000520756309876	-0.000656923582314	0.000005092109779
466	minimi	0.141802	-0.077404	-15.124383	-0.000559588854916	-0.000676465384945	0.000003634296106
467	massimi	0.153798	-0.069885	-14.251941	-0.000451818632725	-0.000665629422144	0.000005163210474
467	minimi	0.140159	-0.077323	-15.293029	-0.000485450665018	-0.000685847274653	0.000003687632402
468	massimi	0.152535	-0.069805	-14.388362	-0.000382153241823	-0.000658261317041	0.000005373480304
468	minimi	0.138429	-0.077236	-15.439599	-0.000410530592526	-0.000677902696657	0.000003943045426
469	massimi	0.151233	-0.071546	-14.711366	-0.000335260950422	-0.000611600673581	0.000005427181977
469	minimi	0.136661	-0.078509	-15.777072	-0.000360125267129	-0.000627739396073	0.000004002482948
470	massimi	0.151281	-0.073278	-14.897483	-0.000325594920225	-0.000541376657884	0.000005158835621
470	minimi	0.136706	-0.079772	-15.967489	-0.000349779826481	-0.000552235674701	0.000003682790273
471	massimi	0.15132	-0.074963	-15.062896	-0.000333658054253	-0.000470280683373	0.000005280076885
471	minimi	0.136741	-0.080986	-16.135653	-0.00035849021982	-0.000475842504631	0.000003842339885
472	massimi	0.152587	-0.076614	-15.092022	-0.000380672286114	-0.000423245563444	0.000005108701002

472	minimi	0.138476	-0.08216	-16.157373	-0.000409019931578	-0.000425297216269	0.00000365479865
473	massimi	0.153798	-0.076537	-14.955692	-0.000451818632725	-0.000414975221794	0.000005172796904
473	minimi	0.140159	-0.082077	-16.010897	-0.000485450665018	-0.000416432304527	0.00000369806848
474	massimi	0.154912	-0.076461	-14.798644	-0.000522237265585	-0.00042458329817	0.000004827330476
474	minimi	0.141755	-0.081992	-15.842157	-0.000561099515864	-0.000426734527981	0.000003346049329
475	massimi	-0.169873	-0.035834	-7.990244	-0.000193727191905	0.000182867566175	0.000005104864529
475	minimi	-0.186485	-0.039396	-8.425227	-0.000210820064245	0.000164505781584	0.00000444656943
476	massimi	-0.169821	-0.033115	-8.0646	-0.000205018955544	0.000093420886856	0.000004930568841
476	minimi	-0.186427	-0.03627	-8.509283	-0.000222851643395	0.000080297526287	0.000004282595171
477	massimi	-0.169769	-0.030327	-8.090259	-0.000194574362271	0.000003282503686	0.000005243487412
477	minimi	-0.186371	-0.033069	-8.541588	-0.000211805691207	-0.000004505265306	0.000004573132996
478	massimi	-0.172277	-0.027579	-8.166444	-0.000155241052011	-0.000047973955752	0.00000503958891
478	minimi	-0.189247	-0.029912	-8.630354	-0.000169992005071	-0.000052704092048	0.000004387827353
479	massimi	-0.1747	-0.02774	-8.238336	-0.00011098955824	-0.00004856424771	0.000004978209437
479	minimi	-0.192031	-0.03009	-8.70949	-0.000122937027882	-0.000053228811182	0.0000043258209
480	massimi	-0.176978	-0.027882	-8.288152	-0.000066277225985	-0.000049103219866	0.000004805980666
480	minimi	-0.194656	-0.030245	-8.765164	-0.000075371605257	-0.000053723610149	0.000004175302635
481	massimi	-0.179182	-0.030552	-8.33455	-0.000026936803472	0.000002166660664	0.00000455409213
481	minimi	-0.197199	-0.033317	-8.812177	-0.000033550041269	-0.000005512666626	0.000003945956763
482	massimi	-0.17912	-0.033115	-8.309069	-0.000015944472554	0.000093420886856	0.000005004180279
482	minimi	-0.197129	-0.03627	-8.780068	-0.000021897390223	0.000080297526287	0.000004349563057
483	massimi	-0.179078	-0.035609	-8.234535	-0.000027783973838	0.000183983409198	0.000004415469247
483	minimi	-0.197085	-0.039148	-8.695816	-0.000034535668231	0.000165513182903	0.000003819393196
484	massimi	-0.176924	-0.038154	-8.087806	-0.000066941946485	0.000234570614346	0.000004614267554
484	minimi	-0.194596	-0.042083	-8.532074	-0.000076144963809	0.000213137350318	0.000004000267354
485	massimi	-0.1747	-0.038304	-8.037976	-0.00011098955824	0.000233805904374	0.00000496336298
485	minimi	-0.192031	-0.042247	-8.476385	-0.000122937027882	0.000212448524203	0.000004312265991
486	massimi	-0.172331	-0.038457	-7.966097	-0.000154576331511	0.000233441350232	0.000004847875798
486	minimi	-0.189307	-0.042416	-8.397264	-0.000169218646519	0.000212117832217	0.000004212792073
487	massimi	-0.008913	-0.030486	-10.5658	-0.000302202798689	0.000113966924156	-0.000002354829594
487	minimi	-0.009349	-0.033297	-11.352553	-0.000326627874434	0.000105757736981	-0.000002894907208
488	massimi	-0.008854	-0.031966	-10.593294	-0.000316829219257	-0.000008931038056	-0.000002372990554
488	minimi	-0.009296	-0.035116	-11.382037	-0.000342442484163	-0.000010054159008	-0.000002920193546
489	massimi	-0.008803	-0.03338	-10.554676	-0.000302108572804	-0.000123553686443	-0.000002232655188
489	minimi	-0.009248	-0.036863	-11.34003	-0.000326521799191	-0.000134000799777	-0.000002760693562
490	massimi	-0.007257	-0.034772	-10.605667	-0.000248795963004	-0.000188615250502	-0.000002216052624
490	minimi	-0.007997	-0.038585	-11.394831	-0.000268872573553	-0.000204353780032	-0.000002740279405
491	massimi	-0.005717	-0.034779	-10.72441	-0.000189233239219	-0.000189362047598	-0.000002366784012
491	minimi	-0.00675	-0.03859	-11.523145	-0.000204465637483	-0.000205160106985	-0.000002913916221
492	massimi	-0.004172	-0.034784	-10.813176	-0.000128884799654	-0.000190353492884	-0.000002224263508
492	minimi	-0.005496	-0.038595	-11.619044	-0.000139209739157	-0.000206231942866	-0.000002747234384
493	massimi	-0.002617	-0.033389	-10.971184	-0.000075560068725	-0.000125271269123	-0.000002256886236
493	minimi	-0.004233	-0.03687	-11.790065	-0.000081547416696	-0.000135856639899	-0.000002781218322
494	massimi	-0.002565	-0.031966	-11.010105	-0.00005990554511	-0.000008931038056	-0.0000023704033
494	minimi	-0.004186	-0.035116	-11.832399	-0.00006461768178	-0.000010054159008	-0.00000291800203
495	massimi	-0.002507	-0.030478	-10.982309	-0.00007546584284	0.000115822764278	-0.000002379060641
495	minimi	-0.004133	-0.03329	-11.802588	-0.000081441341453	0.000107475319661	-0.000002915431967
496	massimi	-0.004114	-0.028961	-10.835459	-0.000128810866554	0.00018627153872	-0.000002393228127
496	minimi	-0.005444	-0.031433	-11.644129	-0.000139126508615	0.000172622807613	-0.000002932849017
497	massimi	-0.005717	-0.028974	-10.746695	-0.000189233239219	0.000185223997028	-0.000002379868064
497	minimi	-0.00675	-0.031446	-11.548233	-0.000204465637483	0.000171652942682	-0.000002928289594
498	massimi	-0.007315	-0.028973	-10.62795	-0.000248869896103	0.000184393375886	-0.000002385017242
498	minimi	-0.00805	-0.031442	-11.419917	-0.000268955804095	0.00017088456523	-0.000002925894038
499	massimi	0.046621	-0.190855	-9.323508	-0.000862212832734	-0.000081571739649	-0.000017219548621
499	minimi	0.04391	-0.205897	-9.958358	-0.0009255300305	-0.000101801592449	-0.000018604149744
500	massimi	0.046745	-0.196452	-9.282542	-0.000866912803845	-0.000129897780869	-0.000017143472707
500	minimi	0.044025	-0.211944	-9.923384	-0.000930618125022	-0.00014682726252	-0.000018523819464
501	massimi	0.046853	-0.201926	-9.228169	-0.000861778109786	-0.000178014604509	-0.000016825170577
501	minimi	0.044125	-0.217859	-9.874012	-0.000925145431992	-0.000191616447836	-0.00001817867037
502	massimi	0.052812	-0.207342	-9.436102	-0.000831344206575	-0.000210863933449	-0.000016623181998
502	minimi	0.04964	-0.223711	-10.106232	-0.000892462643696	-0.000222199474101	-0.000017961342136
503	massimi	0.058723	-0.20731	-9.698109	-0.000786195407291	-0.000217988693506	-0.000017159927879
503	minimi	0.055111	-0.223677	-10.387489	-0.000843944203135	-0.000228813454377	-0.000018541524295
504	massimi	0.064598	-0.207281	-9.9466	-0.000739780336171	-0.000213362664988	-0.00001651254627
504	minimi	0.060548	-0.223646	-10.654227	-0.000794066478652	-0.000224527224269	-0.000017843455384
505	massimi	0.070483	-0.20189	-10.250034	-0.000708802612541	-0.000180323244838	-0.000016626033685
505	minimi	0.065994	-0.217821	-10.970937	-0.00076079992443	-0.000193767114216	-0.000017966482121
506	massimi	0.070595	-0.196452	-10.304541	-0.000702357676863	-0.000129897780869	-0.00001715068253
506	minimi	0.066097	-0.211944	-11.020452	-0.000753920747963	-0.00014682726252	-0.000018531501816

507	massimi	0.070716	-0.190891	-10.345373	-0.000708367889593	-0.000079263099319	-0.000017020411728
507	minimi	0.06621	-0.205935	-11.055283	-0.000760415325921	-0.000099650926069	-0.000018391961494
508	massimi	0.064736	-0.185257	-10.13744	-0.000739378684808	-0.000046133827378	-0.000017222400307
508	minimi	0.060676	-0.199849	-10.823063	-0.000793711138507	-0.000068789253908	-0.000018609289729
509	massimi	0.058723	-0.185237	-9.888974	-0.000786195407291	-0.000041291316447	-0.000017134227357
509	minimi	0.055111	-0.199827	-10.556347	-0.000843944203135	-0.000064258327395	-0.000018513796986
510	massimi	0.052674	-0.185197	-9.626942	-0.000831745857938	-0.000048632558917	-0.000017333036035
510	minimi	0.049512	-0.199784	-10.275068	-0.000892817983841	-0.000071117004076	-0.000018727176481
511	massimi	-0.231633	0.03075	-13.220833	-0.000184236004335	0.000892390029596	0.000011603599332
511	minimi	-0.253278	0.030327	-14.20404	-0.00021550146142	0.00081429241934	0.000010828609978
512	massimi	-0.23166	0.034465	-13.473959	-0.000193115989526	0.000823433019582	0.000011227884291
512	minimi	-0.253306	0.033795	-14.481641	-0.000225090360417	0.000750359687594	0.00001048529285
513	massimi	-0.23167	0.038157	-13.708061	-0.000186457652888	0.000753149761625	0.000011534411526
513	minimi	-0.253316	0.037241	-14.738717	-0.000217939463896	0.000685218402186	0.000010760766591
514	massimi	-0.235193	0.041817	-13.977328	-0.000143210115986	0.000706269343089	0.000011297349076
514	minimi	-0.257092	0.040656	-15.039186	-0.000171274532294	0.000641777755342	0.000010542022952
515	massimi	-0.238635	0.041671	-14.012105	-0.000077603141131	0.000696980837096	0.000011247196786
515	minimi	-0.26078	0.040523	-15.082146	-0.000100471622214	0.000633203786825	0.000010503112988
516	massimi	-0.241929	0.041531	-14.027718	-0.000011871176138	0.000705971868907	0.000010773831085
516	minimi	-0.264306	0.040395	-15.104425	-0.00002950688928	0.000641547989659	0.000010062961408
517	massimi	-0.245157	0.037987	-13.808927	-0.00003143003975	0.000752874917817	0.000010592114242
517	minimi	-0.267761	0.037086	-14.869306	0.000017227539701	0.000685006115946	0.00000989848793
518	massimi	-0.245177	0.034465	-13.574837	0.00003821770666	0.000823433019582	0.000011262000505
518	minimi	-0.267781	0.033795	-14.612247	0.000024545878183	0.000750359687594	0.00001051651196
519	massimi	-0.245194	0.03092	-13.321698	0.000029208391197	0.000892664873405	0.000010661302048
519	minimi	-0.267798	0.030483	-14.334629	0.000014789537225	0.00081450470558	0.000009966331317
520	massimi	-0.241951	0.027334	-13.052431	-0.000013923812592	0.00093899834421	0.000010898364498
520	minimi	-0.264329	0.027132	-14.034159	-0.000031759420514	0.000857443799427	0.000010185074956
521	massimi	-0.238635	0.027196	-13.036691	-0.000077603141131	0.000946617075696	0.000011242688009
521	minimi	-0.26078	0.027005	-14.011741	-0.000100471622214	0.000864537483011	0.000010498691822
522	massimi	-0.235171	0.027048	-13.002041	-0.000141157479532	0.000938700870028	0.000011421882489
522	minimi	-0.257069	0.02687	-13.96892	-0.000169022001059	0.000857214033744	0.0000106641365
523	massimi	0.049832	-0.014338	-12.700948	-0.00028084101916	-0.000441525055554	-0.000002666981983
523	minimi	0.046011	-0.016471	-13.683756	-0.000305910394146	-0.000470437036623	-0.000002804674724
524	massimi	0.049844	-0.015195	-12.546829	-0.000287460202102	-0.000502021356227	-0.000002596361573
524	minimi	0.046021	-0.017371	-13.519375	-0.000312861578924	-0.000535856605646	-0.000002726252939
525	massimi	0.049851	-0.016042	-12.374972	-0.000279354645308	-0.000561709085011	-0.000002636478015
525	minimi	0.046028	-0.018261	-13.33581	-0.000304323841628	-0.000600413106631	-0.000002769801418
526	massimi	0.050759	-0.016881	-12.270132	-0.000239160011867	-0.000601828530996	-0.000002585947028
526	minimi	0.046891	-0.019141	-13.225441	-0.000260852291741	-0.000643805503557	-0.000002714383735
527	massimi	0.051647	-0.016854	-12.337301	-0.00017965359951	-0.000608988235524	-0.000002600478123
527	minimi	0.047738	-0.019113	-13.298796	-0.000196486670096	-0.000651558051175	-0.000002730767588
528	massimi	0.052504	-0.016829	-12.386786	-0.000119857831236	-0.000602360445444	-0.00000249011294
528	minimi	0.048555	-0.019085	-13.353025	-0.000131804580643	-0.000644387256993	-0.000002610701221
529	massimi	0.053348	-0.016011	-12.608478	-0.000079538929331	-0.000562200534023	-0.000002463983082
529	minimi	0.049359	-0.018228	-13.591195	-0.000088197118663	-0.000600950603125	-0.000002583179845
530	massimi	0.053357	-0.015195	-12.780366	-0.00007133396908	-0.000502021356227	-0.000002602606814
530	minimi	0.049368	-0.017371	-13.774793	-0.000079331924592	-0.000535856605646	-0.000002733009641
531	massimi	0.053367	-0.014369	-12.934454	-0.000078052555479	-0.000441033606542	-0.000002494487051
531	minimi	0.049376	-0.016504	-13.939141	-0.000086610566145	-0.000469899540128	-0.000002618053151
532	massimi	0.052515	-0.013533	-13.039294	-0.000118484533398	-0.000400526441167	-0.000002545018038
532	minimi	0.048564	-0.015626	-14.04951	-0.000130338725239	-0.000426092228074	-0.000002673470834
533	massimi	0.051647	-0.013508	-12.989893	-0.00017965359951	-0.000393062002502	-0.000002598490264
533	minimi	0.047738	-0.015599	-13.995372	-0.000196486670096	-0.000418028396843	-0.000002728494992
534	massimi	0.050747	-0.013481	-12.92264	-0.000240533309705	-0.000401058355615	-0.000002640852125
534	minimi	0.046882	-0.015569	-13.921926	-0.000262318147145	-0.00042667398151	-0.000002777153348
535	massimi	-0.019701	0.00692	-13.386325	-0.000243859972297	-0.00030972593799	-0.000020623575529
535	minimi	-0.020009	0.003655	-14.431044	-0.000247125699698	-0.000338502402816	-0.000022501490581
536	massimi	-0.019692	-0.000418	-13.274393	-0.000251509430874	-0.000373683651585	-0.000020905623364
536	minimi	-0.020001	-0.003071	-14.308845	-0.000254193189692	-0.000407639016323	-0.000022809385677
537	massimi	-0.019697	-0.007756	-13.143682	-0.000242653043612	-0.000437039498165	-0.000020617410767
537	minimi	-0.020008	-0.009795	-14.166353	-0.000246019305315	-0.000476119073203	-0.000022500650774
538	massimi	-0.012663	-0.015103	-13.067758	-0.000196653317939	-0.000479553458404	-0.000020619957451
538	minimi	-0.012967	-0.016527	-14.075518	-0.000203450894655	-0.00052205365431	-0.000022504590629
539	massimi	-0.005325	-0.015099	-13.122654	-0.000128330358806	-0.000487187199888	-0.000020905415896
539	minimi	-0.006243	-0.016523	-14.127305	-0.000140226356626	-0.000530263813807	-0.000022809064714
540	massimi	0.002016	-0.015109	-13.158811	-0.000059800706632	-0.000479968637533	-0.000020632489458
540	minimi	0.000485	-0.016534	-14.158846	-0.000076775965476	-0.00052243361203	-0.0000225152809
541	massimi	0.009368	-0.00776	-13.325943	-0.000013712213371	-0.000437423092508	-0.000020639967539

541	minimi	0.007224	-0.009799	-14.333152	-0.00003411055863	-0.000476470125607	-0.000022519892544
542	massimi	0.00936	-0.000418	-13.456677	-0.000004641955899	-0.000373683651585	-0.000020904806688
542	minimi	0.007218	-0.003071	-14.475666	-0.000025702978652	-0.000407639016323	-0.000022808689022
543	massimi	0.009368	0.006923	-13.568585	-0.000012505284687	-0.000309342343647	-0.000020646132301
543	minimi	0.007227	0.003659	-14.597843	-0.000033004164247	-0.000338151350411	-0.000022520732352
544	massimi	0.002016	0.014273	-13.64451	-0.000058685595148	-0.000266538317335	-0.000020643585616
544	minimi	0.000487	0.010398	-14.688679	-0.000075753740138	-0.000291905895385	-0.000022516792497
545	massimi	-0.005325	0.014263	-13.608416	-0.000128330358806	-0.000258696988849	-0.000020905014156
545	minimi	-0.006243	0.010387	-14.657207	-0.000140226356626	-0.000283396338832	-0.000022809009986
546	massimi	-0.012663	0.014267	-13.553457	-0.000197768429423	-0.000266953496465	-0.00002063105361
546	minimi	-0.012969	0.010391	-14.605351	-0.000204473119994	-0.000292285853105	-0.000022506102226
547	massimi	0.069544	-0.066885	-10.060546	-0.00047477233169	-0.000630209907758	-0.000011640929666
547	minimi	0.063975	-0.074258	-10.797944	-0.000515349629435	-0.000682421221207	-0.000012718064067
548	massimi	0.069593	-0.070661	-9.84747	-0.000479200637593	-0.000677751900983	-0.000011587694387
548	minimi	0.064019	-0.078383	-10.567257	-0.000520116345039	-0.000733673030216	-0.000012659362535
549	massimi	0.06963	-0.074392	-9.620463	-0.000472765658684	-0.000724202285001	-0.000011499078188
549	minimi	0.064052	-0.082459	-10.321551	-0.000513177386373	-0.000783743161634	-0.000012560710236
550	massimi	0.073741	-0.078099	-9.528484	-0.000441218225661	-0.000755683753328	-0.000011384896263
550	minimi	0.067815	-0.086508	-10.222553	-0.000479168203644	-0.000817681346744	-0.000012435293503
551	massimi	0.077815	-0.078058	-9.663644	-0.000394926917154	-0.000761464368856	-0.000011596996315
551	minimi	0.071545	-0.086463	-10.369405	-0.000429269284757	-0.00082391601592	-0.000012669579717
552	massimi	0.081841	-0.078021	-9.784921	-0.000347999526538	-0.000756853044307	-0.000011241269003
552	minimi	0.07523	-0.086423	-10.501289	-0.000378678970831	-0.000818952317854	-0.000012279079221
553	massimi	0.085855	-0.074346	-10.133774	-0.000316178918017	-0.000725282622072	-0.000011240558749
553	minimi	0.078905	-0.082408	-10.879498	-0.000344372857592	-0.000784917443511	-0.000012279535002
554	massimi	0.085896	-0.070661	-10.360848	-0.000309085769806	-0.000677751900983	-0.000011597054177
554	minimi	0.078941	-0.078383	-11.125277	-0.000336718496016	-0.000733673030216	-0.000012669542586
555	massimi	0.085941	-0.066931	-10.573856	-0.000314172245012	-0.000629129570688	-0.000011382410227
555	minimi	0.078982	-0.074308	-11.355891	-0.00034220061453	-0.00068124693933	-0.000012436888833
556	massimi	0.081892	-0.063169	-10.665835	-0.000346145511348	-0.000597090339656	-0.000011496592152
556	minimi	0.075276	-0.070197	-11.454888	-0.00037667198134	-0.000646704574901	-0.000012562305566
557	massimi	0.077815	-0.063135	-10.544674	-0.000394926917154	-0.00059134950107	-0.000011587752248
557	minimi	0.071545	-0.07016	-11.323128	-0.000429269284757	-0.000640518166896	-0.000012659325405
558	massimi	0.07369	-0.063091	-10.409399	-0.000443072240851	-0.000598259630635	-0.000011640219412
558	minimi	0.067769	-0.070112	-11.176152	-0.000481175193134	-0.000647975546011	-0.0000115907595102
559	massimi	0.149532	-0.047166	-12.19915	-0.000444566724931	-0.000340736457217	-0.000016171826527
559	minimi	0.135163	-0.052472	-13.172651	-0.000483781317047	-0.000373273295111	-0.000017826861063
560	massimi	0.149573	-0.052399	-12.07816	-0.000450780769725	-0.000399120401887	-0.00001605666412
560	minimi	0.1352	-0.058242	-13.040227	-0.000490509456111	-0.000436557675958	-0.000017698408587
561	massimi	0.149596	-0.0576	-11.939991	-0.000443385017974	-0.000456861510286	-0.000016066634487
561	minimi	0.135221	-0.063974	-12.889183	-0.000482488766628	-0.000499138922846	-0.000017709940689
562	massimi	0.155388	-0.062777	-11.922952	-0.000404439856353	-0.000495794452213	-0.000015907595102
562	minimi	0.140475	-0.06968	-12.87005	-0.000440276240542	-0.000541337727809	-0.000017533809543
563	massimi	0.161118	-0.062693	-12.044107	-0.00034672821605	-0.000503068985792	-0.0000160696204
563	minimi	0.145673	-0.069587	-13.00199	-0.000377728082484	-0.000549222305089	-0.000017712757262
564	massimi	0.166747	-0.062617	-12.148092	-0.000288458124031	-0.000496821037532	-0.000015615155357
564	minimi	0.150781	-0.069503	-13.115319	-0.000314571543318	-0.000542456096855	-0.000017210365145
565	massimi	0.17234	-0.057506	-12.390654	-0.000249273126509	-0.000457809998041	-0.000015540262552
565	minimi	0.155855	-0.06387	-13.380139	-0.000272097738366	-0.000500172211873	-0.000017127762459
566	massimi	0.172369	-0.052399	-12.528883	-0.00024129953147	-0.000399120401887	-0.000016075721606
566	minimi	0.155882	-0.058242	-13.531247	-0.000263447542466	-0.000436557675958	-0.00001771948656
567	massimi	0.172404	-0.047261	-12.649814	-0.000248091419552	-0.000339787969462	-0.000015645454593
567	minimi	0.155913	-0.052577	-13.663607	-0.000270805187947	-0.000372240006083	-0.000017244682833
568	massimi	0.166785	-0.042085	-12.666853	-0.000287366315529	-0.000300500853791	-0.000015804493977
568	minimi	0.150815	-0.046872	-13.682739	-0.000313377323779	-0.000329654149129	-0.000017420813979
569	massimi	0.161118	-0.042011	-12.562936	-0.00034672821605	-0.000293587747537	-0.000016062765326
569	minimi	0.145673	-0.046791	-13.569484	-0.000377728082484	-0.000322160391444	-0.000017705137886
570	massimi	0.15535	-0.041925	-12.441713	-0.000405531664855	-0.00030152743911	-0.000016096933722
570	minimi	0.140441	-0.046695	-13.437471	-0.00044147046008	-0.000330772518174	-0.000017744258377
571	massimi	0.225107	-0.383932	-3.432488	-0.001790012379551	-0.000543229292478	0.000027155976662
571	minimi	0.205307	-0.411768	-3.649063	-0.001910618629409	-0.000586059936751	0.00002441853823
572	massimi	0.225323	-0.375915	-3.253238	-0.001790018174564	-0.000560264418811	0.0000283186496
572	minimi	0.205508	-0.402853	-3.45569	-0.001910629857253	-0.000604366034651	0.000025483391128
573	massimi	0.225549	-0.367663	-3.068693	-0.001788353560913	-0.000576397165091	0.000027964705298
573	minimi	0.205719	-0.393686	-3.256632	-0.001908829235672	-0.000621698721003	0.000025173189356
574	massimi	0.216468	-0.359267	-3.458714	-0.001776337081894	-0.000588693354818	0.000028454612638
574	minimi	0.197546	-0.384365	-3.670799	-0.001895925062082	-0.000634899921759	0.000025627008981
575	massimi	0.207293	-0.359179	-4.032718	-0.001759529806258	-0.000593132671545	0.000028278738879
575	minimi	0.189286	-0.384268	-4.283427	-0.001877876087304	-0.000639647023991	0.000025446420323

576	massimi	0.197989	-0.35906	-4.601224	-0.001739888574816	-0.000593902932187	0.000028870755003
576	minimi	0.180908	-0.384137	-4.890154	-0.00185680254436	-0.000640459896208	0.00002600700201
577	massimi	0.188652	-0.367539	-5.355659	-0.001726655008762	-0.000581210423428	0.000028713733655
577	minimi	0.172502	-0.393551	-5.69742	-0.001842599422249	-0.000626835719934	0.000025857151331
578	massimi	0.188887	-0.375915	-5.540502	-0.001722058033563	-0.000560264418812	0.000028291530758
578	minimi	0.17272	-0.402853	-5.896797	-0.001837669207973	-0.000604366034651	0.000025458628037
579	massimi	0.189094	-0.384055	-5.719454	-0.001724996190124	-0.00053841603414	0.000027905005019
579	minimi	0.172914	-0.411903	-6.089851	-0.001840810028512	-0.00058092293782	0.000025102500206
580	massimi	0.198251	-0.392072	-5.329433	-0.001738355950943	-0.00052533598403	0.00002741509768
580	minimi	0.181153	-0.420819	-5.675684	-0.001855149278899	-0.000566880714599	0.000024648680581
581	massimi	0.207293	-0.391967	-4.761022	-0.001759529806258	-0.000525172530544	0.000028331441479
581	minimi	0.189286	-0.420705	-5.06906	-0.001877876087304	-0.000566686374711	0.000025495598841
582	massimi	0.216206	-0.391864	-4.186923	-0.001777869705766	-0.000530545561398	0.000026998955314
582	minimi	0.197301	-0.420592	-4.456329	-0.001897578327543	-0.000572440689048	0.000024268687552
583	massimi	0.232723	-0.09674	-8.759171	-0.000551266387258	-0.000694025359728	0.000000309536868
583	minimi	0.212434	-0.104372	-9.410467	-0.000590614057333	-0.000751866982861	0.000000236408653
584	massimi	0.232785	-0.096582	-8.526515	-0.000554770778173	-0.000735170595264	0.000000814149514
584	minimi	0.212491	-0.104232	-9.158449	-0.000594396139058	-0.000796285861827	0.000000786380832
585	massimi	0.232837	-0.096363	-8.281805	-0.000549089710238	-0.000775131741182	0.000000503425773
585	minimi	0.21254	-0.104027	-8.893418	-0.000588256431568	-0.000839422216944	0.000000445654591
586	massimi	0.232709	-0.096093	-8.199465	-0.000521804040014	-0.000802358359724	0.000000751332326
586	minimi	0.212391	-0.103766	-8.802207	-0.000558804095329	-0.000868809139996	0.000000716027902
587	massimi	0.232499	-0.095979	-8.361954	-0.000481985298702	-0.000807453640703	0.000000793953594
587	minimi	0.212169	-0.103641	-8.976159	-0.000515825485745	-0.000874299955025	0.000000764354638
588	massimi	0.232145	-0.095861	-8.512431	-0.000441390256227	-0.000803785411255	0.000001182771893
588	minimi	0.211813	-0.103511	-9.137146	-0.000472016070895	-0.000870336384813	0.000001177261748
589	massimi	0.23173	-0.096225	-8.90827	-0.00041377119122	-0.00077645022965	0.000001285762483
589	minimi	0.211403	-0.103875	-9.563867	-0.000442206932225	-0.000840833276484	0.000001270070176
590	massimi	0.231792	-0.096582	-9.153062	-0.000407286865988	-0.000735170595264	0.000000786392876
590	minimi	0.211461	-0.104232	-9.828985	-0.000435207570745	-0.000796285861827	0.000000755964422
591	massimi	0.231844	-0.096878	-9.385636	-0.0004115945142	-0.000692706871261	0.000001076516544
591	minimi	0.211509	-0.104523	-10.080917	-0.00043984930646	-0.000750455923321	0.000001076181271
592	massimi	0.232213	-0.097124	-9.467976	-0.000439379170092	-0.000664863163686	0.000000828274719
592	minimi	0.211876	-0.104759	-10.172127	-0.000469837801706	-0.000720402014888	0.000000806143233
593	massimi	0.232499	-0.097009	-9.317624	-0.000481985298702	-0.000659969728518	0.000000806588796
593	minimi	0.212169	-0.104633	-10.011275	-0.000515825485745	-0.000715111386713	0.000000777990615
594	massimi	0.232641	-0.096891	-9.15501	-0.000523815126148	-0.000666290215217	0.000000402345297
594	minimi	0.212328	-0.104504	-9.837188	-0.000560982364518	-0.000721929259705	0.000000339399242
595	massimi	0.25975	-0.075081	-3.712368	-0.000556036332099	-0.001621805328487	0.000022887338343
595	minimi	0.242724	-0.081245	-3.956019	-0.000601575106614	-0.001735222165021	0.000021277198415
596	massimi	0.259788	-0.068082	-3.182992	-0.000554945745609	-0.001637040526663	0.000023729702044
596	minimi	0.242759	-0.073717	-3.389598	-0.000600420968659	-0.001751664882906	0.000022062209587
597	massimi	0.259831	-0.061041	-2.649394	-0.00055118941831	-0.001649639054242	0.00002303532589
597	minimi	0.242799	-0.066143	-2.818617	-0.000596388815538	-0.001765286312486	0.000021413873573
598	massimi	0.252326	-0.053947	-2.2893	-0.000541774624173	-0.001658795600828	0.000023291032023
598	minimi	0.235822	-0.058512	-2.435379	-0.000586217142833	-0.001775183139536	0.000021652231612
599	massimi	0.244747	-0.05383	-2.463324	-0.000529798867011	-0.001659990137491	0.000023708870725
599	minimi	0.228776	-0.058387	-2.623676	-0.000573258510412	-0.001776488850436	0.000022042791546
600	massimi	0.237016	-0.053696	-2.633313	-0.0005169697986	-0.001660364217726	0.000023782363386
600	minimi	0.221588	-0.058244	-2.807611	-0.000559376569232	-0.001776880430796	0.000022111501496
601	massimi	0.229209	-0.060892	-3.338005	-0.000507188536484	-0.001651088338479	0.000023919689403
601	minimi	0.214329	-0.065984	-3.563715	-0.000548808367011	-0.001766854482173	0.000022240528572
602	massimi	0.229262	-0.068082	-3.871693	-0.000502549267721	-0.001637040526663	0.000023697683343
602	minimi	0.214378	-0.073717	-4.134794	-0.000543820844333	-0.001751664882906	0.000022032280244
603	massimi	0.22929	-0.07523	-4.400979	-0.000502341622696	-0.001620356044249	0.000023771701855
603	minimi	0.214404	-0.081405	-4.701118	-0.000543622075936	-0.001733653995335	0.000022103853414
604	massimi	0.237064	-0.082342	-4.761073	-0.000512491614181	-0.001609947805213	0.000023515995723
604	minimi	0.221633	-0.089054	-5.084355	-0.000554584825681	-0.001722416399934	0.000021865495375
605	massimi	0.244747	-0.082211	-4.591361	-0.000529798867011	-0.001607593659603	0.000023718514662
605	minimi	0.228776	-0.088913	-4.900716	-0.000573258510412	-0.001719888726111	0.000022051698286
606	massimi	0.252278	-0.082091	-4.41706	-0.000546252808593	-0.001611516422112	0.000023024664359
606	minimi	0.235777	-0.088785	-4.712123	-0.000591008886384	-0.001724113691194	0.000021406225491
607	massimi	0.025121	0.02291	-9.076852	0.000006801844755	0.000131906072147	0.000004033718324
607	minimi	0.022068	0.02133	-9.930903	0.000006268886346	0.000118070941245	0.000003813805277
608	massimi	0.025107	0.024231	-9.107672	0.000000966310791	0.000085291170675	0.000004105168674
608	minimi	0.022054	0.022579	-9.965458	0.000000961821609	0.000075724276806	0.000003878506356
609	massimi	0.025094	0.025537	-9.126022	0.000006549316522	0.000038538896475	0.000003985074215
609	minimi	0.022043	0.023813	-9.986285	0.000006044683564	0.000033255648389	0.000003768478696
610	massimi	0.023791	0.026839	-9.125668	0.000037701544063	0.000007386473744	0.000003983672724

610	minimi	0.020811	0.025044	-9.986557	0.000034343300547	0.000004957284942	0.000003766068449
611	massimi	0.022486	0.02685	-9.106966	0.000084454288969	0.000001797042564	0.000004105282848
611	minimi	0.019577	0.025054	-9.966002	0.000076811317555	-0.000000118572779	0.000003878702709
612	massimi	0.021166	0.026864	-9.075793	0.000131071009056	0.000007636524156	0.000004028812812
612	minimi	0.01833	0.025065	-9.931719	0.000119155619763	0.000005184706211	0.00000380536891
613	massimi	0.019835	0.025551	-9.026186	0.000162164818592	0.000038769924281	0.000004066323347
613	minimi	0.017074	0.023826	-9.876515	0.000147401105473	0.000033465768566	0.00000383921689
614	massimi	0.019824	0.024231	-9.007823	0.000167611565387	0.000085291170675	0.00000410222702
614	minimi	0.017063	0.022579	-9.855673	0.000152351467596	0.000075724276806	0.000003875945255
615	massimi	0.019809	0.022896	-8.977016	0.000161912290359	0.000131675044342	0.000004114967456
615	minimi	0.017049	0.021317	-9.821133	0.00014717690269	0.000117860821068	0.000003884543472
616	massimi	0.02115	0.021554	-8.977369	0.00013083769193	0.000162749447581	0.000004116368947
616	minimi	0.018316	0.02005	-9.820861	0.000118948473226	0.000146089504068	0.000003886953718
617	massimi	0.022486	0.021568	-9.008529	0.000084454288969	0.000168446786341	0.000004102112846
617	minimi	0.019577	0.020063	-9.85513	0.000076811317555	0.000151266584027	0.000003875748902
618	massimi	0.023807	0.021578	-9.027245	0.000037934861189	0.000162999497993	0.000004071228859
618	minimi	0.020826	0.020072	-9.875699	0.000034550447084	0.000146316925338	0.000003847653257
619	massimi	-0.01111	0.018463	-13.393855	-0.000056299189015	0.000340977726848	0.000002690039573
619	minimi	-0.013273	0.016737	-14.94859	-0.00006244888888	0.000301232798316	0.000002560101829
620	massimi	-0.01112	0.019336	-13.480297	-0.000064479508471	0.000269046128806	0.000002677543601
620	minimi	-0.013285	0.017568	-15.046556	-0.000071628863322	0.000237096442851	0.000002551942375
621	massimi	-0.011129	0.020197	-13.547808	-0.000057001178978	0.000196681196338	0.00000265122272
621	minimi	-0.013294	0.018388	-15.123288	-0.000063245474774	0.000172578212162	0.000002524834082
622	massimi	-0.011955	0.021051	-13.60846	-0.000014024379983	0.000148429924295	0.000002623635416
622	minimi	-0.014162	0.019203	-15.192106	-0.000015043556603	0.00012955791537	0.000002500470567
623	massimi	-0.012775	0.021042	-13.601514	0.000057440393959	0.000139556950132	0.000002679791025
623	minimi	-0.015022	0.019195	-15.184092	0.000050598746731	0.00012164809195	0.00000255392717
624	massimi	-0.013587	0.021035	-13.575605	0.000129831829158	0.00014859992558	0.000002593478227
624	minimi	-0.015873	0.019189	-15.154808	0.000115140377461	0.000129707727032	0.000002474824419
625	massimi	-0.014398	0.020187	-13.482042	0.000177994015147	0.000196838326643	0.000002596941803
625	minimi	-0.016723	0.01838	-15.04863	0.00015808217672	0.000172716626889	0.000002478672736
626	massimi	-0.014407	0.019336	-13.414522	0.000186281675846	0.000269046128806	0.000002679508861
626	minimi	-0.016733	0.017568	-14.971887	0.000165476180378	0.000237096442851	0.000002553613663
627	massimi	-0.014417	0.018473	-13.328089	0.000177197429253	0.000340820596543	0.000002635758656
627	minimi	-0.016744	0.016745	-14.873931	0.000157380186757	0.000301094383588	0.000002513940482
628	massimi	-0.013598	0.017601	-13.267437	0.000129095843602	0.000388872828322	0.00000266334596
628	minimi	-0.015886	0.015915	-14.805113	0.000114491791443	0.000343939281104	0.000002538303998
629	massimi	-0.012775	0.017594	-13.293306	0.000057440393959	0.0003974674893	0.000002677261438
629	minimi	-0.015022	0.015909	-14.834351	0.00005059874673	0.000351603780799	0.000002551628869
630	massimi	-0.011944	0.017585	-13.300292	-0.000013375793965	0.000389042896584	0.000002693503149
630	minimi	-0.014149	0.015901	-14.842411	-0.000014307571047	0.000344089092767	0.000002563950146
631	massimi	-0.020255	0.006769	-13.61959	-0.000101160102783	0.000474486528651	0.000003348852021
631	minimi	-0.02395	0.00614	-15.2051	-0.000111340011609	0.000419043977226	0.000003172995072
632	massimi	-0.020261	0.007854	-13.744068	-0.000109654037179	0.000401075338882	0.000003335709428
632	minimi	-0.023955	0.007168	-15.34617	-0.000120876665512	0.000353601842229	0.000003165439256
633	massimi	-0.020263	0.008934	-13.849193	-0.000102207039384	0.000327018164157	0.000003333084715
633	minimi	-0.023958	0.008192	-15.465529	-0.0001125275067	0.00028759018463	0.00000315860478
634	massimi	-0.021296	0.01001	-13.961605	-0.000058257781055	0.000277624466589	0.000003305799802
634	minimi	-0.025048	0.009213	-15.592371	-0.000063224776295	0.000243560307782	0.000003134928089
635	massimi	-0.022319	0.009995	-13.968731	0.000011051768014	0.000268372922356	0.000003337932216
635	minimi	-0.026127	0.0092	-15.599671	0.000007948290116	0.000235313582099	0.000003167368098
636	massimi	-0.023329	0.009982	-13.956444	0.000085310511986	0.000277657188422	0.00000325334911
636	minimi	-0.027191	0.009189	-15.585195	0.000074141559514	0.000243583840905	0.000003090121694
637	massimi	-0.024334	0.008917	-13.838862	0.000134605597756	0.000327048396674	0.000003238676986
637	minimi	-0.028248	0.008178	-15.451164	0.000118085319919	0.000287611927469	0.000003077956272
638	massimi	-0.024337	0.007854	-13.733736	0.000142936338137	0.000401075338882	0.000003339127494
638	minimi	-0.028252	0.007168	-15.331803	0.000125519071414	0.000353601842229	0.000003168359165
639	massimi	-0.024342	0.006786	-13.609259	0.000133418102665	0.000474456296134	0.000003254444292
639	minimi	-0.028257	0.006154	-15.190735	0.000117038383318	0.000419022234387	0.000003092346564
640	massimi	-0.023334	0.005712	-13.496847	0.000084213355682	0.000523570075954	0.000003281729205
640	minimi	-0.027196	0.005134	-15.063893	0.000073174268702	0.000462805730483	0.000003116023254
641	massimi	-0.022319	0.005699	-13.509074	0.000011051768014	0.000532185926005	0.000003336904705
641	minimi	-0.026127	0.005123	-15.078302	0.000007948290116	0.000470486690693	0.000003166430323
642	massimi	-0.021291	0.005683	-13.502008	-0.000057290490243	0.000523602797787	0.000003334179897
642	minimi	-0.025043	0.00511	-15.071069	-0.000062127619991	0.000462829263607	0.00000316082965
643	massimi	-0.037884	-0.001466	-13.645062	-0.000108966961162	0.000483790466057	0.000005980570923
643	minimi	-0.043018	-0.001692	-15.234181	-0.000120877881101	0.000426832592114	0.000005570372054
644	massimi	-0.037887	0.000339	-13.772044	-0.000117485845644	0.000410208801065	0.000005970643706
644	minimi	-0.043021	0.000246	-15.378244	-0.000130443435796	0.000361242462684	0.000005565152558

645	massimi	-0.037884	0.002183	-13.879626	-0.000110036519945	0.000335966440466	0.000005980077652
645	minimi	-0.043018	0.002144	-15.500541	-0.000122092418348	0.000295070504421	0.000005569691009
646	massimi	-0.039704	0.004118	-13.996979	-0.000065979121175	0.000286443363807	0.000005942215761
646	minimi	-0.044972	0.003947	-15.63336	-0.000072664595188	0.000250928943565	0.000005536090197
647	massimi	-0.041508	0.00409	-14.006582	0.000001807471603	0.000277147440889	0.000005973728158
647	minimi	-0.046909	0.003923	-15.64369	0.00000039579606	0.000242644738142	0.000005567889877
648	massimi	-0.043287	0.004067	-13.996722	0.000076276627223	0.000286448715329	0.000005848046372
648	minimi	-0.048816	0.003902	-15.632186	0.000066770075813	0.000250930115429	0.000005452762173
649	massimi	-0.045055	0.002153	-13.879112	0.000125703200133	0.000335971384871	0.000005810579065
649	minimi	-0.050712	0.002117	-15.498191	0.000110827200805	0.000295071587135	0.000005419706152
650	massimi	-0.045054	0.000339	-13.77153	0.000134051205322	0.000410208801065	0.000005976780464
650	minimi	-0.050711	0.000246	-15.375894	0.000118275866886	0.000361242462684	0.000005570582814
651	massimi	-0.045055	-0.001439	-13.644547	0.000124488662887	0.000483785521652	0.000005811072336
651	minimi	-0.050712	-0.001661	-15.231832	0.000109757642022	0.000426831509399	0.000005420387198
652	massimi	-0.043287	-0.003224	-13.527194	0.000075154485998	0.000533024445041	0.000005848934226
652	minimi	-0.048816	-0.003576	-15.099013	0.000065781883803	0.000470723105532	0.00000545398801
653	massimi	-0.041508	-0.003245	-13.536992	0.000001807471604	0.000541642082006	0.000005973696013
653	minimi	-0.046909	-0.003599	-15.110448	0.00000039579606	0.000478406450672	0.000005567845495
654	massimi	-0.039703	-0.003269	-13.527451	-0.000064990929166	0.000533029796564	0.000005943103616
654	minimi	-0.044972	-0.003627	-15.100187	-0.000071542453963	0.000470724277397	0.000005537316034
655	massimi	-0.06739	-0.01264	-13.588329	-0.000126424385834	0.000394547973261	0.000008228859246
655	minimi	-0.075906	-0.013889	-15.167877	-0.000139473795779	0.000345276737319	0.000007606705376
656	massimi	-0.067388	-0.010179	-13.688882	-0.000134764710435	0.000321334882346	0.000008195273901
656	minimi	-0.075904	-0.011227	-15.283023	-0.000148841642061	0.000280003320298	0.000007580720764
657	massimi	-0.067379	-0.007711	-13.770143	-0.000127253413541	0.000247604239041	0.00000825139687
657	minimi	-0.075893	-0.008558	-15.376529	-0.000140425197071	0.000214278920844	0.000007627139024
658	massimi	-0.069869	-0.005245	-13.866915	-0.000083450281476	0.000198390608432	0.000008195167956
658	minimi	-0.078588	-0.005891	-15.486681	-0.000091290564172	0.000170406386931	0.000007577230631
659	massimi	-0.072336	-0.005287	-13.882287	-0.000017369415917	0.000189190513828	0.000008199854637
659	minimi	-0.081256	-0.005938	-15.503169	-0.000017558517735	0.000162206630456	0.000007584786594
660	massimi	-0.074758	-0.005324	-13.878316	0.000056579708082	0.000198339181445	0.000008032046264
660	minimi	-0.083873	-0.00598	-15.497959	0.000048361526325	0.000170354400056	0.000007432015542
661	massimi	-0.077159	-0.007758	-13.792965	0.000105726355606	0.000247556724366	0.000007957788762
661	minimi	-0.086467	-0.008611	-15.399105	0.000092176803819	0.000214230888874	0.000007365761601
662	massimi	-0.077153	-0.010179	-13.711707	0.000114171747766	0.000321334882346	0.000008205904088
662	minimi	-0.08646	-0.011227	-15.305602	0.000099717363031	0.000280003320298	0.000007590184028
663	massimi	-0.077148	-0.012593	-13.611151	0.000104774954314	0.000394595487936	0.000007935251137
663	minimi	-0.086455	-0.013836	-15.190454	0.000091347776112	0.000345324769288	0.000007345327953
664	massimi	-0.074751	-0.015014	-13.514379	0.000055700684723	0.000443590759817	0.000007991480052
664	minimi	-0.083866	-0.016453	-15.080301	0.000047595566969	0.000389007576585	0.000007395236346
665	massimi	-0.072336	-0.015052	-13.518303	-0.000017369415917	0.000452203903655	0.000008201323352
665	minimi	-0.081256	-0.016495	-15.085456	-0.000017558517735	0.000396688703922	0.000007586118198
666	massimi	-0.069876	-0.015094	-13.502978	-0.00008268432212	0.00044353933283	0.000008154601743
666	minimi	-0.078595	-0.016542	-15.069023	-0.000090411540813	0.000388955589709	0.000007540451434
667	massimi	-0.024416	0.05264	-7.273691	0.000057320930314	0.000097296110849	-0.000001660894552
667	minimi	-0.027372	0.048514	-7.645282	0.00004876890291	0.000093998895169	-0.000001951674802
668	massimi	-0.023389	0.051134	-7.235203	0.00016141843565	-0.000034071052676	-0.000002064930258
668	minimi	-0.026168	0.04722	-7.600033	0.0001471788435	-0.000038162517288	-0.000002394400196
669	massimi	-0.023389	0.053923	-7.116445	0.00016141843565	0.000231493651284	-0.00000151499254
669	minimi	-0.026168	0.049602	-7.477109	0.0001471788435	0.000220850491638	-0.000001797686044
670	massimi	-0.02437	0.053919	-7.18181	0.000103189525	0.000194338988142	-0.000001761892073
670	minimi	-0.027321	0.049599	-7.549415	0.000092113459897	0.000185727868304	-0.000002075997794
671	massimi	-0.022317	0.05264	-7.110003	0.000265549235163	0.000097296110849	-0.000001920317289
671	minimi	-0.024913	0.048514	-7.465757	0.000245619141209	0.000093998895169	-0.000002241920906
672	massimi	-0.022284	0.051143	-7.137176	0.000221877488973	0.000003880232314	-0.000002088127242
672	minimi	-0.024879	0.047229	-7.493176	0.000204316044498	0.000001980445373	-0.000002432371214
673	massimi	-0.02237	0.053957	-7.019041	0.000221170516439	0.000193264585919	-0.000001832674552
673	minimi	-0.024972	0.049633	-7.370898	0.000203633030177	0.000184748244904	-0.000002155190308
674	massimi	-0.024455	0.051181	-7.299945	0.000102482552466	0.000002900608915	-0.000002017344763
674	minimi	-0.027414	0.047262	-7.671693	0.000091430445576	0.00000090604315	-0.0000023531787
675	massimi	0.055507	0.105901	-7.7095	0.000064953191337	0.000083846788807	0.000005315964184
675	minimi	0.048886	0.097373	-8.126169	0.00005326464421	0.000066138418033	0.000004772300207
676	massimi	0.05227	0.109406	-7.646082	0.000176441156804	-0.000061097675821	0.000005003597111
676	minimi	0.045982	0.100511	-8.062866	0.000158393399829	-0.000070453659876	0.000004473603518
677	massimi	0.05227	0.101947	-7.562522	0.000176441156804	0.000227704456547	0.000006204061861
677	minimi	0.045982	0.093822	-7.956933	0.000158393399829	0.000201873229637	0.000005577399578
678	massimi	0.055586	0.102046	-7.632882	0.000114021090087	0.000187723303115	0.000006226347559
678	minimi	0.048959	0.093912	-8.036276	0.000099449578951	0.000164019181758	0.000005591448944
679	massimi	0.048934	0.105901	-7.533339	0.000287965544846	0.000083846788807	0.000005895732747

679	minimi	0.042991	0.097373	-7.929936	0.000263554852443	0.000066138418033	0.000005282324122
680	massimi	0.049056	0.109468	-7.540831	0.000241135421309	-0.000018292759713	0.000005826902171
680	minimi	0.043103	0.100567	-7.946521	0.000219312441979	-0.000030244320106	0.000005217878023
681	massimi	0.048869	0.101972	-7.457711	0.000240526173302	0.000186548904314	0.000006384534221
681	minimi	0.042931	0.093846	-7.841145	0.000218831866635	0.000162964909488	0.000005730606163
682	massimi	0.055399	0.109394	-7.716003	0.000113411842079	-0.000019467158514	0.000005668715551
682	minimi	0.048787	0.100502	-8.141652	0.000098969003606	-0.000031298592376	0.000005078720804
683	massimi	-0.059384	0.028681	-9.110477	-0.000055665041212	0.000164058790462	0.000001629009795
683	minimi	-0.069333	0.026218	-9.682103	-0.000056458470663	0.000157402284284	0.000001600352327
684	massimi	-0.060184	0.029445	-9.148986	0.000080216351285	-0.000009133672781	0.000001117526441
684	minimi	-0.070127	0.027005	-9.718881	0.000072138769814	-0.000014009365037	0.00000107709065
685	massimi	-0.060184	0.027795	-8.950124	0.000080216351285	0.000340000524657	0.000001414724436
685	minimi	-0.070127	0.02532	-9.511609	0.000072138769814	0.000321898097267	0.000001402207315
686	massimi	-0.059374	0.027761	-8.969329	0.000003282920349	0.000291142155824	0.000001521745671
686	minimi	-0.069322	0.025292	-9.533831	0.000000199903078	0.000276240744831	0.000001514801587
687	massimi	-0.060869	0.028681	-9.030246	0.000216907718664	0.000164058790462	0.000000932810351
687	minimi	-0.070787	0.026218	-9.592889	0.000199957460187	0.000157402284284	0.000000851180904
688	massimi	-0.060849	0.029403	-9.087367	0.00015909879972	0.000040100072679	0.000001201557409
688	minimi	-0.070767	0.026968	-9.651301	0.000145902065225	0.0000386101004	0.000001151553412
689	massimi	-0.060895	0.027861	-8.889549	0.000157906716524	0.000290608235235	0.000001339609455
689	minimi	-0.070817	0.025377	-9.445118	0.000144758349503	0.000275760588681	0.000001302574017
690	massimi	-0.05942	0.029503	-9.167147	0.000002090837153	0.000039619916529	0.000001383693625
690	minimi	-0.069373	0.027054	-9.740014	-0.000000943812644	0.000038076179811	0.000001363780982
691	massimi	0.035697	0.088695	-11.447075	-0.000047481873944	0.000191844516383	0.000005076255685
691	minimi	0.029927	0.080867	-12.261183	-0.000051249934342	0.000161418016141	0.000004598034232
692	massimi	0.032645	0.092005	-11.459646	0.00012910793909	-0.000038100762385	0.00000475269667
692	minimi	0.027169	0.083855	-12.281826	0.000112748562419	-0.000052022067769	0.000004288656815
693	massimi	0.032645	0.08501	-11.255708	0.00012910793909	0.000419303164161	0.000005758123807
693	minimi	0.027169	0.077536	-12.039448	0.000112748562419	0.000372765848216	0.000005205341903
694	massimi	0.035759	0.085087	-11.291377	0.000029752436988	0.000356061579344	0.000005836037503
694	minimi	0.029984	0.077605	-12.082175	0.000020383191501	0.000313845299464	0.00000527694431
695	massimi	0.029532	0.088695	-11.321679	0.000305724403749	0.000191844516383	0.00000543835169
695	minimi	0.024359	0.080867	-12.117592	0.000276770333755	0.000161418016141	0.000004899385038
696	massimi	0.029635	0.092047	-11.369551	0.000231075722744	0.000029773974413	0.000005467798954
696	minimi	0.024452	0.083892	-12.180495	0.000207350757873	0.0000108242197	0.000004933353646
697	massimi	0.029479	0.08504	-11.166686	0.000229681741042	0.000355202232173	0.000005934833405
697	minimi	0.02431	0.077566	-11.939391	0.000206177861378	0.000313094840903	0.000005359166219
698	massimi	0.035603	0.092001	-11.494243	0.000028358455286	0.000028914627242	0.000005369003052
698	minimi	0.029841	0.083853	-12.323279	0.000019210295006	0.000010073761139	0.000004851131737
699	massimi	0.085848	0.148992	-11.565307	-0.000215640280988	0.000125802993493	0.000019303252052
699	minimi	0.074429	0.137993	-12.331835	-0.000226814260285	0.000103699004761	0.000017749164007
700	massimi	0.079326	0.14231	-11.564751	-0.000101996688682	0.000247377619998	0.000020359340866
700	minimi	0.068435	0.131855	-12.325127	-0.000105239506851	0.000217342586559	0.000018704000653
701	massimi	0.085895	0.142376	-11.518208	-0.000174237684646	0.000203116911249	0.000020443895171
701	minimi	0.074472	0.131914	-12.276606	-0.000182504523881	0.000175944048894	0.000018785745135
702	massimi	0.079326	0.155466	-11.632403	-0.000101996688682	0.000004226813941	0.000018981011651
702	minimi	0.068435	0.143938	-12.407199	-0.000105239506851	-0.00000994585721	0.000017427425208
703	massimi	0.072693	0.148992	-11.631848	0.000016336545773	0.000125802993493	0.000020037100465
703	minimi	0.062346	0.137993	-12.400491	0.000011648162781	0.000103699004761	0.000018382261854
704	massimi	0.072775	0.155497	-11.652163	-0.000028120581426	0.000048732968793	0.000020208323491
704	minimi	0.062421	0.143965	-12.427068	-0.000029925245001	0.00003163160925	0.000018550540147
705	massimi	0.072667	0.142319	-11.584631	-0.000028313571936	0.000203278355945	0.000020712132648
705	minimi	0.062322	0.131865	-12.345141	-0.00003008432646	0.000176100518883	0.000019017156099
706	massimi	0.085788	0.15544	-11.58574	-0.000174396766105	0.000048894413489	0.000019940086015
706	minimi	0.074372	0.143916	-12.358533	-0.000182697514392	0.000031788079239	0.000018319129183
707	massimi	-0.065888	0.007383	-9.312496	-0.000116062275668	0.000259495963492	0.000001772430305
707	minimi	-0.076631	0.006802	-9.909403	-0.000123320920946	0.000242835915071	0.000001542169467
708	massimi	-0.066639	0.00826	-9.43593	0.000017461982103	0.000075497717216	0.000001300343874
708	minimi	-0.077492	0.007568	-10.040698	0.000015401181882	0.000071014617192	0.000001133625098
709	massimi	-0.066639	0.006474	-9.12913	0.000017461982103	0.000440130795083	0.000001384031785
709	minimi	-0.077492	0.006007	-9.71285	0.000015401181882	0.000411509734771	0.000001210729657
710	massimi	-0.065895	0.006426	-9.116639	-0.000058577613781	0.000390479662756	0.000001580147789
710	minimi	-0.07664	0.005967	-9.700007	-0.000061758670922	0.00036514748925	0.000001379359057
711	massimi	-0.067263	0.007383	-9.295367	0.000158248486861	0.000259495963492	0.000000912911932
711	minimi	-0.078205	0.006802	-9.889982	0.00014686781608	0.000242835915071	0.000000803029433
712	massimi	-0.067261	0.008204	-9.404794	0.000098732957504	0.000130369583038	0.000001306757521
712	minimi	-0.078204	0.007519	-10.006821	0.000091289798717	0.000122256162178	0.000001141871595
713	massimi	-0.067273	0.006537	-9.099607	0.000096847409179	0.000390363435683	0.000001345631563
713	minimi	-0.078217	0.006062	-9.680696	0.000089525305557	0.000365044978877	0.00000117768759

714	massimi	-0.065907	0.008314	-9.421827	-0.000060342106942	0.000130253355964	0.000001541273747
714	minimi	-0.076653	0.007614	-10.026133	-0.000063644219247	0.000122153651805	0.000001343543061
715	massimi	0.021946	0.049436	-12.785715	-0.000175481913985	0.000245118198932	0.000002161728912
715	minimi	0.016949	0.045135	-13.794707	-0.000185455464835	0.000212348621442	0.000002022509154
716	massimi	0.020631	0.050846	-12.883842	0.000016118272102	-0.000017511544558	0.000001995126839
716	minimi	0.015727	0.046443	-13.90777	0.000010358574387	-0.000029693340543	0.000001853151711
717	massimi	0.020631	0.047817	-12.615559	0.000016118272102	0.000504570793963	0.000002555524081
717	minimi	0.015727	0.043636	-13.598085	0.000010358574387	0.000451638184388	0.000002364787796
718	massimi	0.021983	0.04786	-12.591157	-0.00009474849724	0.000432207016656	0.000002545931434
718	minimi	0.016983	0.043672	-13.574367	-0.000097810668518	0.000384773607402	0.000002363119733
719	massimi	0.019277	0.049436	-12.774195	0.000217695336319	0.000245118198932	0.000002390561542
719	minimi	0.014475	0.045135	-13.776781	0.00019620120107	0.000212348621442	0.000002196950017
720	massimi	0.019332	0.050873	-12.846574	0.000131980388633	0.000059781276679	0.000002348055089
720	minimi	0.014525	0.046465	-13.864598	0.000117106361263	0.000041417327902	0.000002173053108
721	massimi	0.019245	0.04783	-12.579701	0.0001301993094	0.000432099732846	0.000002608367158
721	minimi	0.014446	0.04365	-13.556541	0.000115563392518	0.000384704660351	0.000002410714962
722	massimi	0.021896	0.050844	-12.85803	-0.000096291465985	0.000059673992869	0.000002285619366
722	minimi	0.016903	0.046443	-13.882423	-0.000099591747751	0.000041348380852	0.000002125457878
723	massimi	0.057359	0.136573	-14.402233	-0.000134179528633	0.000384177353042	0.000006220654594
723	minimi	0.04883	0.126376	-15.463764	-0.000137807179147	0.000324575397595	0.000005316570866
724	massimi	0.055231	0.134312	-14.293618	0.000015721691359	0.000537703755156	0.000007107847422
724	minimi	0.047013	0.124437	-15.33332	0.000008405557038	0.000467158427928	0.000006118583772
725	massimi	0.057409	0.134356	-14.279741	-0.000081438454777	0.000482288473768	0.000006829610984
725	minimi	0.048877	0.124476	-15.32057	-0.000081863574484	0.000415636370036	0.000005852751662
726	massimi	0.055231	0.138643	-14.505365	0.000015721691359	0.000230646208228	0.000005844409986
726	minimi	0.047013	0.128139	-15.583951	0.000008405557038	0.000181988360352	0.000004949473996
727	massimi	0.053027	0.136573	-14.39675	0.00016925036778	0.000384177353042	0.000006731602814
727	minimi	0.045129	0.126376	-15.453507	0.000150990538943	0.000324575397595	0.000005751486902
728	massimi	0.05309	0.138675	-14.485639	0.000113521847532	0.000287328171459	0.00000655455989
728	minimi	0.045186	0.128168	-15.560518	0.000099199692452	0.0002345731031	0.000005584387961
729	massimi	0.052991	0.134316	-14.274267	0.000112932492849	0.000482264355604	0.000007016373615
729	minimi	0.045095	0.124442	-15.310331	0.000098701771299	0.000415623475329	0.000006011722885
730	massimi	0.057311	0.138636	-14.491113	-0.00008202780946	0.000287304053295	0.000006367797259
730	minimi	0.048786	0.128134	-15.570757	-0.000082361495637	0.000234560208393	0.000005425416738
731	massimi	-0.083278	-0.000078	-9.305216	-0.000125411143714	0.000253179225403	-0.000003792317285
731	minimi	-0.095558	-0.00016	-9.900941	-0.000134039469246	0.000236377391883	-0.000004142196362
732	massimi	-0.080868	-0.002899	-9.429792	0.000006705734472	0.000069272173076	-0.000004238837055
732	minimi	-0.092916	-0.003258	-10.034233	0.000006021002465	0.000064639750612	-0.000004654914997
733	massimi	-0.080868	0.002939	-9.131152	0.000006705734472	0.000433804736418	-0.000004239717976
733	minimi	-0.092916	0.002744	-9.714366	0.000006021002465	0.000405051266073	-0.00000465672534
734	massimi	-0.083272	0.002857	-9.113458	-0.000068007115529	0.000384070085827	-0.000004436957511
734	minimi	-0.095553	0.002672	-9.695561	-0.000072566496204	0.000358606263338	-0.000004866913343
735	massimi	-0.078305	-0.000078	-9.29852	0.000147452321315	0.000253179225403	-0.000004689290666
735	minimi	-0.090097	-0.00016	-9.893483	0.000137454390536	0.000236377391883	-0.000005172796868
736	massimi	-0.078333	-0.002943	-9.40387	0.000087880891201	0.00012403170789	-0.00000468128399
736	minimi	-0.090128	-0.003309	-10.006331	0.000081823499869	0.000115774573626	-0.000005147267734
737	massimi	-0.078333	0.00299	-9.106799	0.000086041241528	0.000384025454212	-0.000004681693189
737	minimi	-0.090127	0.002787	-9.688145	0.000080105935599	0.000358566187504	-0.00000514810866
738	massimi	-0.083272	-0.002827	-9.410528	-0.000069724679799	0.000123987074475	-0.000004436548312
738	minimi	-0.095553	-0.003176	-10.013747	-0.000074406145876	0.000115734497792	-0.000004866072417
739	massimi	-0.002243	0.022457	-12.99732	-0.000231319024935	0.000243234740206	-0.000001539108136
739	minimi	-0.005426	0.02099	-14.033935	-0.000249074813775	0.000210383411867	-0.000001731561684
740	massimi	-0.001225	0.021253	-13.122548	-0.000041710014391	-0.000024897768839	-0.000001682547029
740	minimi	-0.004513	0.019905	-14.178122	-0.000043236301702	-0.000036519109615	-0.00000186501368
741	massimi	-0.001225	0.023566	-12.856747	-0.000041710014391	0.000508214513618	-0.000001444604403
741	minimi	-0.004513	0.021987	-13.870817	-0.000043236301702	0.000454559006764	-0.000001610442654
742	massimi	-0.002216	0.023569	-12.802923	-0.000149214841548	0.000434053793658	-0.000001619450397
742	minimi	-0.005402	0.021987	-13.813564	-0.000159879506691	0.00038610486953	-0.000001807856405
743	massimi	-0.000204	0.022457	-13.043709	0.000162593285143	0.000243234740206	-0.000001589169965
743	minimi	-0.003592	0.02099	-14.082022	0.000147890385995	0.000210383411867	-0.000001745146807
744	massimi	-0.000192	0.021267	-13.113454	0.000074766306675	0.000053759879009	-0.000001743637047
744	minimi	-0.00358	0.019916	-14.16707	0.000066929914136	0.000035795890687	-0.000001929814702
745	massimi	-0.000231	0.023571	-12.849051	0.00007299891304	0.000434341576066	-0.000001633109491
745	minimi	-0.003617	0.021993	-13.86138	0.000065401225008	0.000386382492913	-0.000001811563031
746	massimi	-0.002256	0.021269	-13.067326	-0.000150743530676	0.000054047661417	-0.000001729977952
746	minimi	-0.005439	0.019922	-14.119254	-0.0001614646900326	0.00003607351407	-0.000001926108076
747	massimi	0.081551	0.020707	-15.610357	-0.000468297388851	0.000086828092222	0.000000069206501
747	minimi	0.072246	0.020229	-16.767411	-0.000505042061018	0.000047457853843	-0.0000020652634
748	massimi	0.082171	0.021256	-15.696698	-0.000312150773352	0.000255014777897	0.000000496557031

748	minimi	0.072161	0.02008	-16.848969	-0.000336856918656	0.00020360610317	-0.000001589396328
749	massimi	0.08157	0.021287	-15.576685	-0.000411760770183	0.000193496843297	0.000000328623868
749	minimi	0.072262	0.020109	-16.719515	-0.000444120247448	0.000146438401207	-0.000001845292162
750	massimi	0.082171	0.020349	-15.727659	-0.000312150773352	-0.000081359665353	0.000000309421964
750	minimi	0.072161	0.020129	-16.905614	-0.000336856918656	-0.000108690981354	-0.000001780960178
751	massimi	0.082678	0.020707	-15.814	-0.000156000304326	0.000086828092222	0.000000736772494
751	minimi	0.071976	0.020229	-16.987171	-0.000168667617768	0.000047457853844	-0.000001305093106
752	massimi	0.082695	0.020378	-15.810872	-0.000213473723933	-0.000020077660248	0.000000504231769
752	minimi	0.071993	0.020163	-16.995431	-0.000230545743903	-0.000051848645043	-0.000001637454201
753	massimi	0.08268	0.021228	-15.779966	-0.00021354652757	0.000194013605155	0.000000572633685
753	minimi	0.071979	0.020057	-16.938886	-0.000230678944213	0.000146917262126	-0.000001567433468
754	massimi	0.081556	0.020326	-15.607591	-0.00041183357382	-0.000019560898391	0.000000260221951
754	minimi	0.072248	0.020104	-16.77606	-0.000444253447758	-0.000051369784124	-0.000001915312895
755	massimi	-0.111507	-0.009602	-9.176851	-0.000147677980374	0.000143472525783	-0.000011021485614
755	minimi	-0.126701	-0.010557	-9.753515	-0.000158721135699	0.000135458843025	-0.000011756405633
756	massimi	-0.104803	-0.017301	-9.25135	-0.000018042078982	-0.000033295423432	-0.000011544111446
756	minimi	-0.119532	-0.018797	-9.83272	-0.000020046672342	-0.000037038367022	-0.000012355012629
757	massimi	-0.104803	-0.001863	-9.080211	-0.000018042078982	0.000322123822803	-0.000011652960506
757	minimi	-0.119532	-0.002272	-9.651456	-0.000020046672342	0.000302457381741	-0.000012474684062
758	massimi	-0.111484	-0.00198	-9.049175	-0.00009152512014	0.000271990843647	-0.000012340312877
758	minimi	-0.126677	-0.002403	-9.617838	-0.00009866182514	0.000255607435691	-0.0000121398439818
759	massimi	-0.097901	-0.009602	-9.196917	0.000118623656187	0.000143472525783	-0.000012183939038
759	minimi	-0.112137	-0.010557	-9.77581	0.00011159010105	0.000135458843025	-0.000013082231627
760	massimi	-0.097969	-0.017341	-9.239368	0.000059421816232	0.000016099025126	-0.000012606922047
760	minimi	-0.112211	-0.018845	-9.820319	0.000056254984633	0.000015783408015	-0.000013504597432
761	massimi	-0.097952	-0.001831	-9.069128	0.000058379316854	0.000272124274437	-0.000012657483746
761	minimi	-0.112193	-0.002233	-9.640008	0.000055270714238	0.000255727523894	-0.000013560186254
762	massimi	-0.111467	-0.017192	-9.219414	-0.000092509390535	0.000016219113329	-0.000012289751178
762	minimi	-0.126659	-0.018675	-9.798149	-0.000099704324518	0.000015916838804	-0.000013142850997
763	massimi	-0.020023	-0.003928	-12.672144	-0.000285722567844	0.000144601910711	-0.000002552271621
763	minimi	-0.020664	-0.004854	-13.671118	-0.000309024948322	0.000120519473194	-0.000003127271739
764	massimi	-0.018148	-0.005688	-12.774142	-0.000100681306313	-0.000116274213643	-0.000002635107777
764	minimi	-0.019124	-0.006992	-13.790005	-0.000108289477911	-0.00011987751309	-0.000003199241866
765	massimi	-0.018148	-0.002151	-12.621876	-0.000100681306313	0.000403603748538	-0.000002679637315
765	minimi	-0.019124	-0.002697	-13.607313	-0.000108289477911	0.000359354322272	-0.000003254270972
766	massimi	-0.020018	-0.002175	-12.535903	-0.000206183822714	0.000330153249621	-0.000002839269728
766	minimi	-0.02066	-0.002722	-13.514609	-0.000222685457527	0.000291517950863	-0.000003455527222
767	massimi	-0.016238	-0.003928	-12.784119	0.000092423638408	0.000144601910711	-0.000002764388298
767	minimi	-0.017547	-0.004854	-13.791555	0.000084339171674	0.000120519473194	-0.000003328566207
768	massimi	-0.016258	-0.005695	-12.798714	0.00000613535809	-0.000040700005657	-0.000002876460026
768	minimi	-0.017563	-0.006996	-13.8161	0.000004746871437	-0.000050340521904	-0.000003484887549
769	massimi	-0.016249	-0.002148	-12.647249	0.000005084650874	0.000330874028352	-0.000002897144596
769	minimi	-0.017557	-0.002696	-13.634369	0.000003871152165	0.000292188089325	-0.00000351044931
770	massimi	-0.020009	-0.005668	-12.687368	-0.000207059541987	-0.000039979226926	-0.000002818585158
770	minimi	-0.020653	-0.00697	-13.69634	-0.000223736164742	-0.000049670383442	-0.000003429965461
771	massimi	0.154949	-0.073309	-14.502376	-0.000596334408162	-0.000540597614434	0.000004341911003
771	minimi	0.141791	-0.079807	-15.542991	-0.00064078331216	-0.000551441005076	0.000002854312839
772	massimi	0.153864	-0.074927	-14.825882	-0.000451168463677	-0.000395403396297	0.000004651407704
772	minimi	0.14022	-0.080944	-15.880988	-0.000484752099324	-0.000395425548232	0.000003196866728
773	massimi	0.154938	-0.074882	-14.661557	-0.000544482055505	-0.000449642478701	0.000004795897587
773	minimi	0.141779	-0.080896	-15.704441	-0.000585026937155	-0.000453630272438	0.000003289854942
774	massimi	0.153864	-0.071589	-14.473205	-0.000451168463677	-0.000685763006914	0.000005329594776
774	minimi	0.14022	-0.078559	-15.521237	-0.000484752099324	-0.000707471806272	0.000003935161735
775	massimi	0.152564	-0.073309	-14.796711	-0.00030599694948	-0.000540597614434	0.000005639091477
775	minimi	0.138453	-0.079807	-15.859235	-0.000328714902184	-0.000551441005076	0.000004277715624
776	massimi	0.152559	-0.071553	-14.603318	-0.000360137852659	-0.000633986681547	0.000005517937174
776	minimi	0.13845	-0.078517	-15.661012	-0.000386885083426	-0.000651772126167	0.000004080002267
777	massimi	0.152617	-0.074983	-14.955371	-0.000359308538455	-0.000448950355012	0.000005270045122
777	minimi	0.138503	-0.081006	-16.020125	-0.000386039134709	-0.000452886629125	0.000003810139464
778	massimi	0.154996	-0.071654	-14.309505	-0.000543652741301	-0.000633294557857	0.000005043789638
778	minimi	0.141832	-0.078628	-15.345328	-0.000584180988438	-0.000651028482854	0.000003559717744
779	massimi	-0.172347	-0.033147	-8.184732	-0.000225540044404	0.00009304763229	0.000005666482792
779	minimi	-0.189324	-0.036305	-8.639683	-0.000244668327382	0.000079976704902	0.000004967081554
780	massimi	-0.174857	-0.030417	-8.278053	-0.000110609353101	-0.000065726716741	0.000004804660387
780	minimi	-0.192204	-0.033168	-8.746708	-0.000122515895565	-0.000069362354158	0.000004183778093
781	massimi	-0.174857	-0.035736	-8.177011	-0.000110609353101	0.000250615959583	0.00000439311219
781	minimi	-0.192204	-0.039289	-8.629151	-0.000122515895565	0.000228279158921	0.000003808031994
782	massimi	-0.172416	-0.035861	-8.097045	-0.000176343448168	0.000205783173382	0.000005141114301
782	minimi	-0.1894	-0.039426	-8.541447	-0.000192374295634	0.00018603780758	0.000004474706254

783	massimi	-0.177035	-0.033147	-8.307748	0.000004298523909	0.00009304763229	0.000003534601678
783	minimi	-0.194719	-0.036305	-8.775942	-0.000000388733886	0.000079976704902	0.000003027606189
784	massimi	-0.177072	-0.030569	-8.319883	-0.000045337859206	-0.000019879071081	0.00000475060797
784	minimi	-0.194759	-0.033335	-8.79388	-0.000053137472796	-0.000026284009594	0.000004120066574
785	massimi	-0.177014	-0.035612	-8.219371	-0.000045918985555	0.00020659864003	0.000004559438879
785	minimi	-0.194695	-0.039152	-8.676941	-0.000053813575055	0.000186774024199	0.000003945527988
786	massimi	-0.172358	-0.03032	-8.197557	-0.000176924574518	-0.000019063604434	0.000005332283392
786	minimi	-0.189336	-0.033061	-8.658386	-0.000193050397893	-0.000025547792975	0.00000464924484
787	massimi	-0.007302	-0.031997	-10.777552	-0.000344762357744	-0.000008895355178	-0.00000215908576
787	minimi	-0.008037	-0.03515	-11.581196	-0.00037264782261	-0.000010013988836	-0.000002671792768
788	massimi	-0.005722	-0.033391	-10.851381	-0.00018858499112	-0.000211062983151	-0.00000201440352
788	minimi	-0.006756	-0.036875	-11.660691	-0.000203765208419	-0.000228625698311	-0.00000250332611
789	massimi	-0.005722	-0.030468	-10.862619	-0.00018858499112	0.000208727518953	-0.000002377117653
789	minimi	-0.006756	-0.033277	-11.673343	-0.000203765208419	0.000193387571716	-0.00000290178261
790	massimi	-0.007323	-0.030494	-10.732399	-0.000278515186417	0.000145266530875	-0.00000243544584
790	minimi	-0.008058	-0.033305	-11.532617	-0.000301012033925	0.000134703933629	-0.000002990340958
791	massimi	-0.004132	-0.031997	-10.987291	-0.000032446553912	-0.000008895355178	-0.000002234017615
791	minimi	-0.005461	-0.03515	-11.807818	-0.000034924657282	-0.000010013988836	-0.000002735263335
792	massimi	-0.004174	-0.033402	-10.929781	-0.000100498973818	-0.000153809555656	-0.000002287404983
792	minimi	-0.005499	-0.036884	-11.745381	-0.00010851393405	-0.000166717965732	-0.00000282257014
793	massimi	-0.004112	-0.030484	-10.94096	-0.000100434338338	0.000146622799565	-0.000002455890584
793	minimi	-0.005443	-0.033297	-11.757966	-0.000108441170348	0.000135959162237	-0.000003007658553
794	massimi	-0.007261	-0.033392	-10.72122	-0.000278450550937	-0.000152554327048	-0.000002266960238
794	minimi	-0.008001	-0.036876	-11.520032	-0.000300939270223	-0.000165361697043	-0.000002805252545
795	massimi	0.052725	-0.196537	-9.56748	-0.00088036286677	-0.000129710857377	-0.00001681316442
795	minimi	0.049559	-0.212036	-10.229261	-0.000945060503825	-0.000146615977427	-0.000018163043764
796	massimi	0.058748	-0.190863	-9.871386	-0.000785064068557	-0.000027374114746	-0.000017467221895
796	minimi	0.055135	-0.205905	-10.546463	-0.000842729763623	-0.000051311428382	-0.0000168872078837
797	massimi	0.052672	-0.190884	-9.604444	-0.000846952489453	-0.000065589980448	-0.000017535802398
797	minimi	0.049511	-0.205928	-10.259925	-0.000909163140002	-0.000086943125839	-0.000018945738279
798	massimi	0.058748	-0.201937	-9.775737	-0.000785064068557	-0.000232045998717	-0.000015649051722
798	minimi	0.055135	-0.217871	-10.461842	-0.000842729763623	-0.000241918716487	-0.000016910524643
799	massimi	0.06469	-0.196537	-10.079643	-0.000689755578665	-0.000129710857377	-0.000016303109198
799	minimi	0.060634	-0.212036	-10.779044	-0.000740388619854	-0.000146615977427	-0.000017619559715
800	massimi	0.064606	-0.201929	-10.020219	-0.000725930046321	-0.000195542469069	-0.000016684785631
800	minimi	0.060556	-0.217863	-10.724263	-0.000779210651381	-0.000207965568971	-0.000018030092589
801	massimi	0.064759	-0.190924	-10.115699	-0.000725705127252	-0.00006429717459	-0.000017349366176
801	minimi	0.060697	-0.205971	-10.808734	-0.000779011665937	-0.000085738783153	-0.000018747083097
802	massimi	0.052825	-0.201968	-9.508963	-0.000846727570383	-0.000194249663211	-0.000016871221853
802	minimi	0.049652	-0.217905	-10.175454	-0.000908964154558	-0.000206761226285	-0.000018228747771
803	massimi	-0.235181	0.03448	-13.541323	-0.000211470069819	0.000822248095756	0.000012065485805
803	minimi	-0.25708	0.03381	-14.559759	-0.000244905591077	0.000749279916622	0.000011244523891
804	massimi	-0.238739	0.030824	-13.322191	-0.000077491469861	0.000966822187649	0.000011018204391
804	minimi	-0.260893	0.030395	-14.324275	-0.000100327043097	0.000883254369938	0.000010296620475
805	massimi	-0.23521	0.030745	-13.281605	-0.000162109032132	0.000915293555054	0.000011720214817
805	minimi	-0.257112	0.030323	-14.275046	-0.000191655747664	0.00083549501645	0.000010939180587
806	massimi	-0.238739	0.038087	-13.811009	-0.000077491469861	0.000677663853144	0.000010699233271
806	minimi	-0.260893	0.037177	-14.860696	-0.000100327043097	0.000615296213385	0.000009983847428
807	massimi	-0.241963	0.03448	-13.591877	0.000056488086735	0.000822248095756	0.000009651951857
807	minimi	-0.264343	0.03381	-14.625211	0.000044252743428	0.000749279916622	0.000009035944013
808	massimi	-0.241974	0.037988	-13.820021	0.000008025861898	0.000731698014498	0.00001072142508
808	minimi	-0.264356	0.037087	-14.875852	-0.000008060207107	0.000665360122419	0.000010017571528
809	massimi	-0.241998	0.030932	-13.332069	0.000006876414581	0.000915447463691	0.000010838015927
809	minimi	-0.26438	0.030494	-14.340381	-0.000009321592668	0.000835613893734	0.000010131896845
810	massimi	-0.235234	0.038176	-13.769557	-0.000163258479449	0.000731851923134	0.00001160362397
810	minimi	-0.257137	0.037258	-14.810516	-0.000192917133224	0.000665478999704	0.000010824855269
811	massimi	0.050752	-0.015202	-12.644472	-0.000304449671429	-0.000501298945233	-0.000002731109396
811	minimi	0.046886	-0.017379	-13.625687	-0.000331453601833	-0.000535085505576	-0.000002874877896
812	massimi	0.05167	-0.014352	-12.866509	-0.000179395077171	-0.000376240149363	-0.000002580516233
812	minimi	0.047759	-0.016485	-13.864228	-0.000196203924892	-0.000399831314721	-0.000002716265049
813	massimi	0.050755	-0.014339	-12.793069	-0.00025947031673	-0.000422842421015	-0.000002700356215
813	minimi	0.046889	-0.016471	-13.784094	-0.000282805397159	-0.000450223066385	-0.000002840518417
814	massimi	0.05167	-0.01603	-12.539469	-0.000179395077171	-0.000626351552526	-0.000002439886179
814	minimi	0.047759	-0.018248	-13.515147	-0.000196203924892	-0.000670333090756	-0.00000255549138
815	massimi	0.052515	-0.015202	-12.761506	-0.000054338268266	-0.000501298945233	-0.000002289293016
815	minimi	0.048565	-0.017379	-13.753687	-0.000060951825797	-0.000535085505576	-0.000002396878533
816	massimi	0.052514	-0.016013	-12.583437	-0.000100666876595	-0.000581645861151	-0.000002487459439
816	minimi	0.048563	-0.01823	-13.563405	-0.000111055480707	-0.000621972982838	-0.00000260703305
817	massimi	0.052526	-0.014373	-12.909897	-0.000099897849273	-0.000422567216535	-0.000002538862767

817	minimi	0.048574	-0.016509	-13.911868	-0.00011023462246	-0.000449922075968	-0.000002665799306
818	massimi	0.050768	-0.016047	-12.46661	-0.000258701289408	-0.00058137065667	-0.000002648952887
818	minimi	0.0469	-0.018267	-13.435632	-0.000281984538913	-0.00062167199242	-0.000002781752162
819	massimi	-0.012689	-0.000419	-13.361544	-0.000271120511706	-0.000373145919127	-0.0000020158307969
819	minimi	-0.012992	-0.003072	-14.395492	-0.000272355953163	-0.000407052421942	-0.000022000986208
820	massimi	-0.005327	0.006947	-13.528936	-0.000128145690841	-0.000240811368665	-0.000020201406093
820	minimi	-0.006245	0.003681	-14.570069	-0.000140024570267	-0.000264074297544	-0.000022027564316
821	massimi	-0.012671	0.006926	-13.467533	-0.000219443980639	-0.000289832638452	-0.000020855004697
821	minimi	-0.012976	0.00366	-14.51126	-0.00022455818918	-0.000317026852879	-0.000022751808127
822	massimi	-0.005327	-0.007784	-13.285502	-0.000128145690841	-0.000505475863072	-0.000020172985174
822	minimi	-0.006245	-0.009821	-14.304515	-0.000140024570267	-0.000550025521244	-0.000022023692617
823	massimi	0.002042	-0.000419	-13.452894	0.000014830711993	-0.000373145919127	-0.000020216083297
823	minimi	0.00051	-0.003072	-14.479092	-0.000007691458756	-0.000407052421942	-0.000022050270725
824	massimi	0.002021	-0.007766	-13.315718	-0.000037884733599	-0.000457876284851	-0.000020865734369
824	minimi	0.00049	-0.009806	-14.329629	-0.000056514542782	-0.000498586099918	-0.000022768407495
825	massimi	0.002022	0.00693	-13.558721	-0.000037260286975	-0.000289617831057	-0.00002087612283
825	minimi	0.000492	0.003665	-14.594712	-0.000055942111083	-0.000316830268508	-0.000022769822685
826	massimi	-0.01267	-0.007762	-13.22453	-0.000218819534015	-0.000457661477456	-0.000020844616236
826	minimi	-0.012973	-0.009801	-14.246176	-0.000223985757482	-0.000498389515548	-0.000022750392938
827	massimi	0.073705	-0.070691	-10.006557	-0.000492879801393	-0.000676776612943	-0.00001152529442
827	minimi	0.067783	-0.078417	-10.739902	-0.000534865501576	-0.00073261727142	-0.000012589565124
828	massimi	0.077849	-0.066899	-10.355952	-0.00039435861554	-0.000578248815464	-0.000011521201045
828	minimi	0.071576	-0.074273	-11.118698	-0.000428651564322	-0.000626396166187	-0.00001259219191
829	massimi	0.073698	-0.066892	-10.215543	-0.000458068722765	-0.000615613704563	-0.000011808041743
829	minimi	0.067777	-0.074266	-10.966184	-0.000497344248686	-0.000666686126923	-0.000012901487425
830	massimi	0.077849	-0.074385	-9.914434	-0.00039435861554	-0.000775296055559	-0.000010867234299
830	minimi	0.071576	-0.082452	-10.640751	-0.000428651564322	-0.000838829332432	-0.000011866755881
831	massimi	0.081884	-0.070691	-10.26383	-0.000295832561299	-0.000676776612943	-0.000010863140923
831	minimi	0.07527	-0.078417	-11.019547	-0.00032243233533	-0.00073261727142	-0.000011869382667
832	massimi	0.081856	-0.074359	-10.031625	-0.000332957355588	-0.00074072507174	-0.000011326971313
832	minimi	0.075244	-0.082423	-10.768233	-0.000362463882689	-0.00080156649292	-0.000012373082583
833	massimi	0.081912	-0.066944	-10.47236	-0.000331919133364	-0.000615008731118	-0.000011566010311
833	minimi	0.075295	-0.074322	-11.245334	-0.000361339997025	-0.000666028545718	-0.000012638245151
834	massimi	0.073754	-0.074411	-9.774807	-0.00045703050054	-0.000740120098295	-0.000011569002745
834	minimi	0.067828	-0.082479	-10.489083	-0.000496220363021	-0.000800908911715	-0.000012636324857
835	massimi	0.155356	-0.052422	-12.2288	-0.000467550157929	-0.00039854606583	-0.000016188482595
835	minimi	0.140447	-0.058267	-13.204126	-0.000508687237265	-0.000435929467495	-0.000017846283714
836	massimi	0.161187	-0.047198	-12.47174	-0.000346229272585	-0.000277220583331	-0.000015756855888
836	minimi	0.145736	-0.052508	-13.469357	-0.000377184530071	-0.000304421741321	-0.000017370222957
837	massimi	0.155372	-0.047166	-12.344476	-0.000424124474306	-0.000322421967171	-0.000016366759725
837	minimi	0.140461	-0.052473	-13.330793	-0.000461623149027	-0.000353424463436	-0.000018041995869
838	massimi	0.161187	-0.057574	-12.211735	-0.000346229272585	-0.000519866628246	-0.000015271897272
838	minimi	0.145736	-0.063945	-13.184964	-0.000377184530071	-0.000567431812084	-0.000016831194123
839	massimi	0.166793	-0.052422	-12.454675	-0.000224904113013	-0.00039854606583	-0.000014840270566
839	minimi	0.150823	-0.058267	-13.450195	-0.000245677166503	-0.000435929467495	-0.000016355133366
840	massimi	0.166779	-0.057514	-12.310406	-0.000270061020259	-0.000476485421217	-0.000015696696182
840	minimi	0.15081	-0.063879	-13.292537	-0.000294629947202	-0.000520417665262	-0.000017299921443
841	massimi	0.166821	-0.047271	-12.569951	-0.000269449622975	-0.000321890827473	-0.000015873959052
841	minimi	0.150847	-0.052589	-13.576426	-0.000293961201189	-0.000352845836228	-0.0000174966948147
842	massimi	0.155414	-0.057619	-12.084932	-0.000423513077022	-0.000475954281519	-0.000016189496856
842	minimi	0.140499	-0.063995	-13.046903	-0.000460954403014	-0.000519839038054	-0.000017844969166
843	massimi	0.216379	-0.376078	-3.836149	-0.0017963467424	-0.000559458195788	0.000026373657272
843	minimi	0.197461	-0.403027	-4.077887	-0.001917418084405	-0.000603496349204	0.000023720245436
844	massimi	0.207383	-0.38404	-4.591759	-0.001756997834937	-0.000520094989905	0.000025468702419
844	minimi	0.189368	-0.411886	-4.886409	-0.001875173815152	-0.000561236780258	0.000022856617013
845	massimi	0.216237	-0.384001	-4.014694	-0.001785248206093	-0.000536716442003	0.000027212333641
845	minimi	0.197329	-0.411841	-4.270499	-0.001905487164444	-0.00057907736844	0.000024460354907
846	massimi	0.207383	-0.36759	-4.226777	-0.001756997834937	-0.000598814495114	0.000029197120644
846	minimi	0.189368	-0.393606	-4.492698	-0.001875173815152	-0.000645748467938	0.000026335725928
847	massimi	0.198098	-0.376078	-4.982386	-0.001717627237192	-0.000559458195788	0.000028292165791
847	minimi	0.181011	-0.403027	-5.30122	-0.001832906396725	-0.000603496349204	0.000025472097505
848	massimi	0.198005	-0.367594	-4.794565	-0.001735266765524	-0.000586697882571	0.000029276407571
848	minimi	0.180923	-0.393609	-5.09865	-0.001851828088666	-0.000632736444217	0.00002637238435
849	massimi	0.198295	-0.384137	-5.1589	-0.001734408517881	-0.000534021085565	0.000027913590023
849	minimi	0.181194	-0.411991	-5.491664	-0.001850902283444	-0.000576200721858	0.00002510069475
850	massimi	0.216527	-0.367731	-3.650359	-0.00178438995845	-0.000584002526133	0.000028575151189
850	minimi	0.1976	-0.393759	-3.877485	-0.001904561359222	-0.000629859797636	0.000025732044507
851	massimi	0.232687	-0.096624	-8.709701	-0.000566705438899	-0.000734112681465	-0.000000209029769
851	minimi	0.212371	-0.104277	-9.354742	-0.000607275582477	-0.000795140002884	-0.00000033121101

852	massimi	0.2326	-0.096815	-9.106156	-0.000481291719685	-0.000648691460118	0.000000325849333
852	minimi	0.21226	-0.104453	-9.782126	-0.000515083210547	-0.000702939543547	0.000000262350532
853	massimi	0.23268	-0.096751	-8.938951	-0.000536863861132	-0.000681430816245	0.000000276315453
853	minimi	0.212364	-0.104383	-9.603084	-0.000575060708234	-0.000738278264035	0.000000199950918
854	massimi	0.2326	-0.096298	-8.627233	-0.000481291719685	-0.000819524840131	0.000001227020676
854	minimi	0.21226	-0.103955	-9.26339	-0.000515083210547	-0.000887330646152	0.000001219720148
855	massimi	0.232189	-0.096624	-9.023688	-0.000395872058886	-0.000734112681465	0.000001820582219
855	minimi	0.211854	-0.104277	-9.690774	-0.000422884479872	-0.000795140002884	0.000001754599251
856	massimi	0.232183	-0.096235	-8.774307	-0.000428396481824	-0.000789898195552	0.000001339085724
856	minimi	0.211848	-0.103886	-9.420704	-0.000457985112905	-0.000855353859364	0.000001320793482
857	massimi	0.232258	-0.096904	-9.252382	-0.000427270302097	-0.000680692481393	0.000000994064355
857	minimi	0.211918	-0.10455	-9.938521	-0.000456765313038	-0.000737488090695	0.00000098647791
858	massimi	0.232755	-0.096388	-8.460877	-0.000535737681405	-0.000789159860701	0.00000060304458
858	minimi	0.212433	-0.104054	-9.085267	-0.000573840908367	-0.000854563686024	0.0000005520582732
859	massimi	0.25234	-0.068112	-3.364334	-0.000559379129799	-0.001634684817968	0.0000021766638903
859	minimi	0.235835	-0.073749	-3.585799	-0.000605210547939	-0.001749144229246	0.0000020231332912
860	massimi	0.244853	-0.075183	-4.070122	-0.000529036484054	-0.001604328816564	0.000002255808444
860	minimi	0.228876	-0.081355	-4.343079	-0.000572433588832	-0.001716352940105	0.0000020974949497
861	massimi	0.252326	-0.075091	-3.89334	-0.000550410177324	-0.001618456533283	0.0000023124152924
861	minimi	0.235823	-0.081257	-4.151813	-0.000595510779937	-0.00173158783531	0.0000021497825409
862	massimi	0.244853	-0.060945	-3.00368	-0.000529036484054	-0.001665020639054	0.0000023240339828
862	minimi	0.228876	-0.06604	-3.201965	-0.000572433588832	-0.001781913925058	0.0000021605052262
863	massimi	0.237025	-0.068112	-3.709469	-0.00049868730731	-0.001634684817968	0.0000024031785365
863	minimi	0.221597	-0.073749	-3.959245	-0.000539649562986	-0.001749144229246	0.0000022348668847
864	massimi	0.237051	-0.06089	-3.173311	-0.000511875068259	-0.001656991642348	0.0000024201492085
864	minimi	0.221621	-0.065982	-3.385506	-0.00055388408952	-0.001773214525727	0.0000022502073712
865	massimi	0.237105	-0.075256	-4.237863	-0.000509367348465	-0.001617644954654	0.0000023952112976
865	minimi	0.22167	-0.081433	-4.524597	-0.000551200781057	-0.001730709682515	0.0000022271757515
866	massimi	0.252379	-0.061055	-2.828788	-0.00054790245753	-0.001656180063719	0.0000023373532033
866	minimi	0.235872	-0.066158	-3.012721	-0.000592827471474	-0.001772336372932	0.0000021728141606
867	massimi	0.023805	0.024242	-9.110384	-0.000010975820108	0.000085168436296	0.000003858697594
867	minimi	0.020824	0.022588	-9.968477	-0.000012184522682	0.00007561530923	0.000003653465045
868	massimi	0.022495	0.0229	-9.0607	0.000084332758866	0.000181684671591	0.000004074880559
868	minimi	0.019585	0.021321	-9.913187	0.000076700785723	0.000163290974884	0.000003848539754
869	massimi	0.023813	0.022914	-9.075387	0.000023252479339	0.00014665179588	0.000004097847044
869	minimi	0.020831	0.021334	-9.929323	0.000021214071129	0.000131464237083	0.000003873985866
870	massimi	0.022495	0.02555	-9.11003	0.000084332758866	-0.000011348850411	0.000003850620437
870	minimi	0.019585	0.023825	-9.968749	0.000076700785723	-0.000012061289901	0.000003639574169
871	massimi	0.021155	0.024242	-9.060346	0.00018084899932	0.000085168436296	0.000004066803403
871	minimi	0.01832	0.022588	-9.913459	0.000164376444677	0.00007561530923	0.000003834648878
872	massimi	0.02117	0.025558	-9.07468	0.000145815413166	0.000024088862053	0.000004091942292
872	minimi	0.018334	0.023831	-9.929867	0.000132550629683	0.000020127678529	0.000003863831034
873	massimi	0.021152	0.022898	-9.025437	0.000145684758883	0.000146522423584	0.00000417391422
873	minimi	0.018317	0.02132	-9.874403	0.000132434630558	0.000131346572762	0.000003940212478
874	massimi	0.023796	0.025542	-9.12463	0.000023121825055	0.000023959489756	0.000004015875116
874	minimi	0.020815	0.023817	-9.984787	0.000021098072004	0.000020010014208	0.000003797604422
875	massimi	-0.011947	0.019344	-13.505842	-0.00008265536938	0.000268658970214	0.000002656044093
875	minimi	-0.014153	0.017576	-15.074982	-0.000092013923046	0.000236755260001	0.000002524216434
876	massimi	-0.012781	0.018466	-13.412133	0.000057357736973	0.000418028617882	0.000002676005579
876	minimi	-0.015029	0.016739	-14.968638	0.000050525934906	0.000369934791032	0.000002546395284
877	massimi	-0.011945	0.018465	-13.413029	-0.00003377178592	0.00036397622261	0.000002730895617
877	minimi	-0.014151	0.016739	-14.969868	-0.000037184235741	0.000321736146042	0.000002598625936
878	massimi	-0.012781	0.020196	-13.566589	0.000057357736973	0.00011928600593	0.000002497051285
878	minimi	-0.015029	0.018388	-15.143907	0.000050525934906	0.000103572806208	0.000002383803158
879	massimi	-0.013596	0.019344	-13.47288	0.000206728688906	0.000268658970214	0.000002517012771
879	minimi	-0.015883	0.017576	-15.037563	0.000183706615445	0.000236755260001	0.000002405982009
880	massimi	-0.013589	0.020191	-13.534307	0.000152496658024	0.000174295328845	0.000002614664993
880	minimi	-0.015876	0.018383	-15.107474	0.000135349649474	0.000152614710648	0.000002495977754
881	massimi	-0.013602	0.018476	-13.380125	0.000152084516546	0.000363888231867	0.00000268007666
881	minimi	-0.01589	0.016748	-14.932516	0.000134986450498	0.000321658635756	0.000002555408695
882	massimi	-0.011958	0.020201	-13.56721	-0.000034134984896	0.000174207338102	0.00000266548395
882	minimi	-0.014165	0.018392	-15.144827	-0.000037596377219	0.000152537200362	0.000002539194996
883	massimi	-0.021291	0.007858	-13.784394	-0.000128265906456	0.000400498189662	0.000003343694726
883	minimi	-0.025043	0.007171	-15.390714	-0.000141753977249	0.000353093007584	0.000003161411252
884	massimi	-0.022329	0.006774	-13.666629	0.00001103586447	0.000553285491171	0.000003259135457
884	minimi	-0.026139	0.006144	-15.256475	0.000007936852491	0.00048929353806	0.000003091298763
885	massimi	-0.021294	0.006769	-13.653368	-0.000078258825969	0.000498162795302	0.000003387737385
885	minimi	-0.025046	0.006139	-15.242296	-0.000085650098101	0.000440147228289	0.000003209982862
886	massimi	-0.022329	0.00893	-13.896981	0.00001103586447	0.000247705943971	0.00000318644468

886	minimi	-0.026139	0.008189	-15.517754	0.000007936852491	0.000216888118147	0.000003024956328
887	massimi	-0.023336	0.007858	-13.779216	0.00016382556995	0.000400498189662	0.000003101885412
887	minimi	-0.027198	0.007171	-15.383514	0.000144139513457	0.000353093007584	0.000002954843839
888	massimi	-0.023334	0.008919	-13.878143	0.000108371776618	0.000304140920583	0.000003272780796
888	minimi	-0.027196	0.008179	-15.495925	0.000094699772665	0.000267188629654	0.000003110228407
889	massimi	-0.023339	0.006788	-13.648199	0.00010775738464	0.000498145865521	0.000003299350848
889	minimi	-0.027202	0.006155	-15.235109	0.000094158103522	0.000440135052607	0.000003134478003
890	massimi	-0.021299	0.008937	-13.883312	-0.000078800495112	0.000304123990802	0.000003361167333
890	minimi	-0.025052	0.008195	-15.503111	-0.000086264490078	0.000267176453973	0.000003185733267
891	massimi	-0.039699	0.000339	-13.814926	-0.000136148381375	0.000409618508752	0.000005985607309
891	minimi	-0.044967	0.000246	-15.42591	-0.000151379690825	0.000360722633152	0.000005568711666
892	massimi	-0.041526	-0.001459	-13.697133	0.000001804870644	0.000562800530693	0.000005769673477
892	minimi	-0.046929	-0.001683	-15.291707	0.000000395226507	0.00049726401202	0.000005378201224
893	massimi	-0.03971	-0.001469	-13.68138	-0.000086023194394	0.000507541382667	0.000006040657102
893	minimi	-0.044979	-0.001695	-15.274481	-0.000095139623391	0.000447999805563	0.00000562670694
894	massimi	-0.041526	0.002175	-13.932462	0.000001804870644	0.000256431430037	0.000005767399389
894	minimi	-0.046929	0.002137	-15.558935	0.000000395226507	0.000224176801134	0.000005375061452
895	massimi	-0.043295	0.000339	-13.814668	0.000154989409831	0.000409618508752	0.000005551465557
895	minimi	-0.048825	0.000246	-15.424732	0.000136938829511	0.000360722633152	0.000005184551011
896	massimi	-0.043296	0.002153	-13.916035	0.000099383563157	0.000313018196118	0.000005881137668
896	minimi	-0.048826	0.002117	-15.54006	0.000087368294347	0.000274608316822	0.000005485140252
897	massimi	-0.043296	-0.001439	-13.681123	0.000098755179979	0.00050753861387	0.000005881968896
897	minimi	-0.048827	-0.001661	-15.273305	0.00008681492083	0.000447999199258	0.000005486287907
898	massimi	-0.03971	0.002186	-13.916293	-0.000086576567911	0.000313015427322	0.000006039825874
898	minimi	-0.044979	0.002147	-15.541236	-0.000095768006569	0.000274607710518	0.000005625559285
899	massimi	-0.069868	-0.010183	-13.737352	-0.00015333563321	0.000320872480002	0.000008294941655
899	minimi	-0.078586	-0.011232	-15.336637	-0.000169670983951	0.000279600394259	0.000007659656095
900	massimi	-0.072367	-0.012625	-13.651868	-0.00001734442125	0.000473197169164	0.000007866976361
900	minimi	-0.081291	-0.013872	-15.237629	-0.000017533250949	0.0004154011589	0.000007277817404
901	massimi	-0.069887	-0.012646	-13.630319	-0.000103572221498	0.000418093000897	0.000008301448858
901	minimi	-0.078608	-0.013896	-15.214217	-0.000113843141292	0.000366262570083	0.000007674317053
902	massimi	-0.072367	-0.007726	-13.834275	-0.00001734442125	0.000168543829643	0.000007970879803
902	minimi	-0.081291	-0.008576	-15.446961	-0.000017533250949	0.000143796177928	0.000007372021049
903	massimi	-0.074766	-0.010183	-13.748791	0.00013498235557	0.000320872480002	0.000007542914509
903	minimi	-0.083883	-0.011232	-15.347952	0.000118269347762	0.000279600394259	0.000006990182359
904	massimi	-0.074773	-0.00776	-13.82382	0.000079590655619	0.000224659203986	0.000008064545618
904	minimi	-0.08389	-0.008613	-15.434473	0.000068878153777	0.000193812194808	0.000007464043385
905	massimi	-0.074766	-0.012594	-13.641737	0.000079098414998	0.000418119608441	0.000008026566661
905	minimi	-0.083882	-0.013837	-15.225512	0.000068449227396	0.000366289467305	0.000007429609914
906	massimi	-0.06988	-0.007708	-13.812402	-0.000104001147879	0.00022468581153	0.000008339427814
906	minimi	-0.0786	-0.008555	-15.423178	-0.000114335381913	0.00019383909203	0.000007708750524
907	massimi	0.00	0.00	0.00	0.00	0.00	0.00
907	minimi	0.00	0.00	0.00	0.00	0.00	0.00
908	massimi	0.00	0.00	0.00	0.00	0.00	0.00
908	minimi	0.00	0.00	0.00	0.00	0.00	0.00
909	massimi	0.00	0.00	0.00	0.00	0.00	0.00
909	minimi	0.00	0.00	0.00	0.00	0.00	0.00
910	massimi	0.00	0.00	0.00	0.00	0.00	0.00
910	minimi	0.00	0.00	0.00	0.00	0.00	0.00

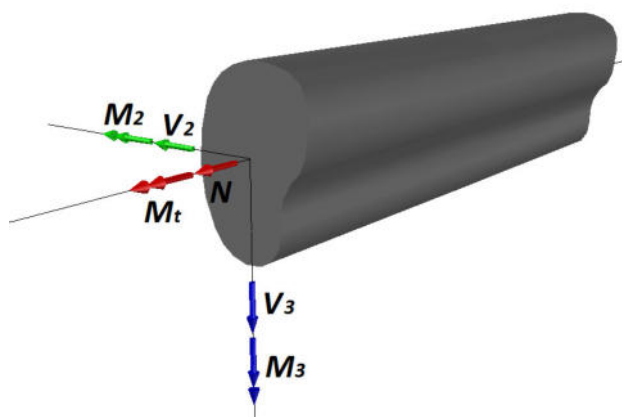
1.4.5.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N:** sforzo normale;
- **V₂:** sforzo di taglio in direzione 2;
- **V₃:** sforzo di taglio in direzione 3;
- **M_t:** momento torcente;

- M_2 : momento flettente nel piano 1-2;
- M_3 : momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 1 (11-1)	31	massimi	0.00	4.77006	0.39133	11.31994	-0.42365	-2.25799	1.048
Asta 1 (11-1)	31	massimi	237.00	4.77006	0.39133	-3.57048	-0.42365	6.45576	0.121
Asta 1 (11-1)	31	massimi	474.00	4.77006	0.39133	-18.00378	-0.42365	-19.47845	-0.622
Asta 1 (11-1)	31	minimi	0.00	4.55526	0.30933	10.86282	-0.4461	-2.55435	0.844
Asta 1 (11-1)	31	minimi	237.00	4.55526	0.30933	-3.96656	-0.4461	6.08706	0.111
Asta 1 (11-1)	31	minimi	474.00	4.55526	0.30933	-19.25306	-0.4461	-21.05948	-0.807
Asta 2 (1-221)	32	massimi	0.00	27.65048	0.06035	22.30348	-0.35952	-24.72197	0.051
Asta 2 (1-221)	32	massimi	315.00	27.65048	0.06035	1.98598	-0.35952	10.72578	-0.139
Asta 2 (1-221)	32	massimi	630.00	27.65048	0.06035	-17.70364	-0.35952	-15.01845	-0.329
Asta 2 (1-221)	32	minimi	0.00	23.09695	0.05943	20.66336	-0.39328	-27.53012	0.035
Asta 2 (1-221)	32	minimi	315.00	23.09695	0.05943	1.47986	-0.39328	10.1536	-0.152
Asta 2 (1-221)	32	minimi	630.00	23.09695	0.05943	-18.33152	-0.39328	-15.39884	-0.339
Asta 3 (6-16)	33	massimi	0.00	5.8646	0.40887	24.36956	-0.63664	-30.71314	0.982
Asta 3 (6-16)	33	massimi	237.00	5.8646	0.40887	9.08306	-0.63664	6.28159	0.013
Asta 3 (6-16)	33	massimi	474.00	5.8646	0.40887	-6.18622	-0.63664	9.69395	-0.92
Asta 3 (6-16)	33	minimi	0.00	5.57397	0.39242	22.68038	-0.72162	-33.35978	0.94
Asta 3 (6-16)	33	minimi	237.00	5.57397	0.39242	8.24708	-0.72162	5.93589	0.01
Asta 3 (6-16)	33	minimi	474.00	5.57397	0.39242	-6.20344	-0.72162	8.37801	-0.956
Asta 4 (221-6)	34	massimi	0.00	26.29275	-0.10564	17.57933	0.46796	-12.71462	-0.38
Asta 4 (221-6)	34	massimi	315.00	26.29275	-0.10564	-2.13374	0.46796	10.66022	-0.047
Asta 4 (221-6)	34	massimi	630.00	26.29275	-0.10564	-21.31723	0.46796	-26.83719	0.29
Asta 4 (221-6)	34	minimi	0.00	21.91194	-0.11048	17.04976	0.41527	-13.39466	-0.406
Asta 4 (221-6)	34	minimi	315.00	21.91194	-0.11048	-2.73816	0.41527	10.09809	-0.058
Asta 4 (221-6)	34	minimi	630.00	21.91194	-0.11048	-23.05566	0.41527	-29.96506	0.286

Asta 5 (26-11)	35	massimi	0.00	6.33474	-0.09718	15.22473	-0.57085	-10.98823	-0.234
Asta 5 (26-11)	35	massimi	237.00	6.33474	-0.09718	-0.0516	-0.57085	6.36089	0.004
Asta 5 (26-11)	35	massimi	474.00	6.33474	-0.09718	-14.4849	-0.57085	-11.23281	0.271
Asta 5 (26-11)	35	minimi	0.00	5.8796	-0.11273	14.3817	-0.6377	-11.60722	-0.263
Asta 5 (26-11)	35	minimi	237.00	5.8796	-0.11273	-0.06177	-0.6377	5.99294	-0.003
Asta 5 (26-11)	35	minimi	474.00	5.8796	-0.11273	-15.34827	-0.6377	-11.90	0.227
Asta 6 (11-226)	36	massimi	0.00	41.00352	0.08718	24.80407	-0.11347	-31.45138	0.246
Asta 6 (11-226)	36	massimi	315.00	41.00352	0.08718	4.48657	-0.11347	10.2941	-0.025
Asta 6 (11-226)	36	massimi	630.00	41.00352	0.08718	-15.68174	-0.11347	-7.57327	-0.296
Asta 6 (11-226)	36	minimi	0.00	33.13964	0.08607	22.68526	-0.12048	-35.83865	0.246
Asta 6 (11-226)	36	minimi	315.00	33.13964	0.08607	3.50176	-0.12048	9.79318	-0.028
Asta 6 (11-226)	36	minimi	630.00	33.13964	0.08607	-15.83093	-0.12048	-9.39028	-0.303
Asta 7 (16-21)	37	massimi	0.00	9.40089	-0.01986	10.0934	-0.56014	-8.08743	-0.11
Asta 7 (16-21)	37	massimi	307.50	9.40089	-0.01986	-0.7474	-0.56014	5.92963	-0.049
Asta 7 (16-21)	37	massimi	615.00	9.40089	-0.01986	-11.2639	-0.56014	-12.85449	0.012
Asta 7 (16-21)	37	minimi	0.00	8.67739	-0.0199	9.76911	-0.61165	-8.258	-0.114
Asta 7 (16-21)	37	minimi	307.50	8.67739	-0.0199	-0.9766	-0.61165	5.61288	-0.053
Asta 7 (16-21)	37	minimi	615.00	8.67739	-0.0199	-12.04661	-0.61165	-14.09355	0.008
Asta 8 (16-31)	38	massimi	0.00	12.27383	0.33704	18.58856	-0.34031	-17.77679	0.907
Asta 8 (16-31)	38	massimi	237.00	12.27383	0.33704	3.30206	-0.34031	6.61924	0.108
Asta 8 (16-31)	38	massimi	474.00	12.27383	0.33704	-11.52147	-0.34031	-3.66939	-0.629
Asta 8 (16-31)	38	minimi	0.00	11.27088	0.30578	17.34513	-0.35597	-19.32114	0.82
Asta 8 (16-31)	38	minimi	237.00	11.27088	0.30578	2.91183	-0.35597	6.22771	0.096
Asta 8 (16-31)	38	minimi	474.00	11.27088	0.30578	-11.98444	-0.35597	-3.9747	-0.691
Asta 9 (226-16)	39	massimi	0.00	37.35051	-0.11074	15.46399	0.36353	-5.78096	-0.419
Asta 9 (226-16)	39	massimi	315.00	37.35051	-0.11074	-3.77059	0.36353	10.93055	-0.07
Asta 9 (226-16)	39	massimi	630.00	37.35051	-0.11074	-22.95409	0.36353	-31.75759	0.284
Asta 9 (226-16)	39	minimi	0.00	30.14495	-0.1161	15.41291	0.31535	-8.00288	-0.447
Asta 9 (226-16)	39	minimi	315.00	30.14495	-0.1161	-4.85351	0.31535	10.33378	-0.081
Asta 9 (226-16)	39	minimi	630.00	30.14495	-0.1161	-25.17101	0.31535	-36.35806	0.279
Asta 10 (21-36)	40	massimi	0.00	18.45845	0.12984	16.48036	-0.73797	-24.13885	0.374
Asta 10 (21-36)	40	massimi	237.00	18.45845	0.12984	7.94836	-0.73797	2.81908	0.066
Asta 10 (21-36)	40	massimi	474.00	18.45845	0.12984	-0.58364	-0.73797	11.54628	-0.224
Asta 10 (21-36)	40	minimi	0.00	17.01567	0.12091	15.37655	-0.86326	-26.12896	0.35
Asta 10 (21-36)	40	minimi	237.00	17.01567	0.12091	7.27115	-0.86326	2.69868	0.063

Asta 10 (21-36)	40	minimi	474.00	17.01567	0.12091	-0.83425	-0.86326	10.3264	-0.241
Asta 11 (41-26)	41	massimi	0.00	4.79096	0.10617	15.45043	0.04315	-11.69758	0.04
Asta 11 (41-26)	41	massimi	237.00	4.79096	0.10617	0.16393	0.04315	6.09348	-0.196
Asta 11 (41-26)	41	massimi	474.00	4.79096	0.10617	-14.28836	0.04315	-11.01055	-0.433
Asta 11 (41-26)	41	minimi	0.00	4.46571	0.09975	14.57824	0.04221	-12.40952	0.034
Asta 11 (41-26)	41	minimi	237.00	4.46571	0.09975	0.14494	0.04221	5.74939	-0.217
Asta 11 (41-26)	41	minimi	474.00	4.46571	0.09975	-15.12257	0.04221	-11.63251	-0.469
Asta 12 (26-231)	42	massimi	0.00	36.54626	0.08994	24.05022	-0.03326	-29.44063	0.243
Asta 12 (26-231)	42	massimi	315.00	36.54626	0.08994	3.73272	-0.03326	10.16968	-0.041
Asta 12 (26-231)	42	massimi	630.00	36.54626	0.08994	-16.35341	-0.03326	-10.0723	-0.301
Asta 12 (26-231)	42	minimi	0.00	29.15156	0.0825	22.01359	-0.03805	-33.58847	0.218
Asta 12 (26-231)	42	minimi	315.00	29.15156	0.0825	2.83009	-0.03805	9.68815	-0.041
Asta 12 (26-231)	42	minimi	630.00	29.15156	0.0825	-16.58477	-0.03805	-11.61108	-0.324
Asta 13 (31-36)	43	massimi	0.00	16.16931	-0.06041	10.65688	-0.00204	-10.53351	-0.198
Asta 13 (31-36)	43	massimi	307.50	16.16931	-0.06041	-0.14596	-0.00204	5.21625	-0.012
Asta 13 (31-36)	43	massimi	615.00	16.16931	-0.06041	-10.66246	-0.00204	-11.5953	0.178
Asta 13 (31-36)	43	minimi	0.00	14.03648	-0.06286	10.37054	-0.00569	-10.69767	-0.208
Asta 13 (31-36)	43	minimi	307.50	14.03648	-0.06286	-0.41312	-0.00569	5.02264	-0.015
Asta 13 (31-36)	43	minimi	615.00	14.03648	-0.06286	-11.48313	-0.00569	-13.07423	0.174
Asta 14 (31-46)	44	massimi	0.00	12.49853	0.36503	16.18737	0.01313	-13.13517	1.011
Asta 14 (31-46)	44	massimi	237.00	12.49853	0.36503	0.90087	0.01313	6.34341	0.145
Asta 14 (31-46)	44	massimi	474.00	12.49853	0.36503	-13.58915	0.01313	-9.1339	-0.675
Asta 14 (31-46)	44	minimi	0.00	11.41852	0.34103	15.27745	0.01258	-13.90615	0.941
Asta 14 (31-46)	44	minimi	237.00	11.41852	0.34103	0.84415	0.01258	5.96893	0.133
Asta 14 (31-46)	44	minimi	474.00	11.41852	0.34103	-14.38563	0.01258	-9.63603	-0.72
Asta 15 (231-31)	45	massimi	0.00	31.34797	-0.11422	16.22721	0.02658	-7.89571	-0.344
Asta 15 (231-31)	45	massimi	315.00	31.34797	-0.11422	-3.12711	0.02658	11.21996	0.016
Asta 15 (231-31)	45	massimi	630.00	31.34797	-0.11422	-22.31061	0.02658	-29.49058	0.406
Asta 15 (231-31)	45	minimi	0.00	24.72662	-0.12396	16.05639	0.01299	-9.78981	-0.375
Asta 15 (231-31)	45	minimi	315.00	24.72662	-0.12396	-4.09029	0.01299	10.57382	0.015
Asta 15 (231-31)	45	minimi	630.00	24.72662	-0.12396	-24.40778	0.01299	-33.6645	0.376
Asta 16 (36-51)	46	massimi	0.00	37.26119	0.07858	13.79333	0.99347	-16.57103	0.217
Asta 16 (36-51)	46	massimi	237.00	37.26119	0.07858	5.26133	0.99347	4.97637	0.041
Asta 16 (36-51)	46	massimi	474.00	37.26119	0.07858	-3.19903	0.99347	7.3353	-0.135
Asta 16 (36-51)	46	minimi	0.00	34.35941	0.07438	13.01178	0.92588	-17.60341	0.212

Asta 16 (36-51)	46	minimi	237.00	34.35941	0.07438	4.90637	0.92588	4.66198	0.026
Asta 16 (36-51)	46	minimi	474.00	34.35941	0.07438	-3.27067	0.92588	6.68518	-0.16
Asta 17 (71-41)	47	massimi	0.00	3.9552	0.01815	15.55233	0.73304	-11.81817	-0.238
Asta 17 (71-41)	47	massimi	237.00	3.9552	0.01815	0.26583	0.73304	6.17575	-0.267
Asta 17 (71-41)	47	massimi	474.00	3.9552	0.01815	-14.20561	0.73304	-10.73894	-0.272
Asta 17 (71-41)	47	minimi	0.00	3.7218	0.00213	14.66098	0.67432	-12.56877	-0.262
Asta 17 (71-41)	47	minimi	237.00	3.7218	0.00213	0.22769	0.67432	5.8249	-0.281
Asta 17 (71-41)	47	minimi	474.00	3.7218	0.00213	-15.02067	0.67432	-11.30874	-0.324
Asta 18 (41-236)	48	massimi	0.00	34.79919	0.00135	24.08686	-0.02458	-29.60866	-0.24
Asta 18 (41-236)	48	massimi	315.00	34.79919	0.00135	3.76936	-0.02458	10.11052	-0.245
Asta 18 (41-236)	48	massimi	630.00	34.79919	0.00135	-16.31724	-0.02458	-10.01605	-0.249
Asta 18 (41-236)	48	minimi	0.00	27.54913	-0.00008	22.04976	-0.02801	-33.76303	-0.266
Asta 18 (41-236)	48	minimi	315.00	27.54913	-0.00008	2.86626	-0.02801	9.63407	-0.265
Asta 18 (41-236)	48	minimi	630.00	27.54913	-0.00008	-16.54814	-0.02801	-11.55122	-0.265
Asta 19 (46-51)	49	massimi	0.00	18.04216	-0.04575	12.94211	-0.69377	-16.29584	-0.149
Asta 19 (46-51)	49	massimi	307.50	18.04216	-0.04575	1.98869	-0.69377	6.25345	-0.001
Asta 19 (46-51)	49	massimi	615.00	18.04216	-0.04575	-8.52781	-0.69377	-4.06541	0.174
Asta 19 (46-51)	49	minimi	0.00	15.76473	-0.05704	12.50519	-0.75336	-16.52342	-0.177
Asta 19 (46-51)	49	minimi	307.50	15.76473	-0.05704	1.87211	-0.75336	5.9885	-0.008
Asta 19 (46-51)	49	minimi	615.00	15.76473	-0.05704	-9.19789	-0.75336	-5.00993	0.132
Asta 20 (46-76)	50	massimi	0.00	11.54946	0.38565	15.40379	0.65905	-11.45212	0.968
Asta 20 (46-76)	50	massimi	237.00	11.54946	0.38565	0.14898	0.65905	6.37272	0.054
Asta 20 (46-76)	50	massimi	474.00	11.54946	0.38565	-14.28432	0.65905	-10.74595	-0.797
Asta 20 (46-76)	50	minimi	0.00	10.62227	0.35289	14.58228	0.60046	-12.01977	0.876
Asta 20 (46-76)	50	minimi	237.00	10.62227	0.35289	0.11729	0.60046	6.00442	0.04
Asta 20 (46-76)	50	minimi	474.00	10.62227	0.35289	-15.16921	0.60046	-11.4638	-0.86
Asta 21 (236-46)	51	massimi	0.00	29.23503	-0.11552	16.46684	-0.20926	-8.60873	-0.192
Asta 21 (236-46)	51	massimi	315.00	29.23503	-0.11552	-2.91182	-0.20926	11.26177	0.186
Asta 21 (236-46)	51	massimi	630.00	29.23503	-0.11552	-22.09532	-0.20926	-28.77594	0.579
Asta 21 (236-46)	51	minimi	0.00	22.7807	-0.12493	16.27168	-0.22369	-10.43145	-0.208
Asta 21 (236-46)	51	minimi	315.00	22.7807	-0.12493	-3.85065	-0.22369	10.61032	0.172
Asta 21 (236-46)	51	minimi	630.00	22.7807	-0.12493	-24.16815	-0.22369	-32.86785	0.536
Asta 22 (66-51)	52	massimi	0.00	46.74594	-0.13229	5.47015	19.31748	-4.02587	-0.219
Asta 22 (66-51)	52	massimi	116.50	46.74594	-0.13229	1.27615	19.31748	-0.63278	-0.065
Asta 22 (66-51)	52	massimi	233.00	46.74594	-0.13229	-2.91785	19.31748	-1.58907	0.181

Asta 22 (66-51)	52	minimi	0.00	43.3759	-0.22596	4.89317	17.8216	-4.5625	-0.345
Asta 22 (66-51)	52	minimi	116.50	43.3759	-0.22596	0.90887	17.8216	-0.64618	-0.082
Asta 22 (66-51)	52	minimi	233.00	43.3759	-0.22596	-3.07543	17.8216	-1.9082	0.089
Asta 23 (61-56)	53	massimi	0.00	1.55518	0.69091	-22.42764	6.97278	-6.10144	1.171
Asta 23 (61-56)	53	massimi	204.50	-1.80785	0.49932	-13.33614	6.97279	-38.87356	-0.071
Asta 23 (61-56)	53	massimi	409.00	-5.14424	0.19322	36.81336	6.97279	-36.01096	-0.754
Asta 23 (61-56)	53	minimi	0.00	1.50748	0.6427	-23.72345	6.51057	-6.55217	1.092
Asta 23 (61-56)	53	minimi	204.50	-2.07506	0.46781	-14.31084	6.51057	-41.42321	-0.072
Asta 23 (61-56)	53	minimi	409.00	-5.72947	0.16903	34.75039	6.51058	-38.73976	-0.811
Asta 24 (56-66)	54	massimi	0.00	0.58359	0.056	30.25802	-1.23071	-55.96042	0.189
Asta 24 (56-66)	54	massimi	205.50	0.58359	0.056	22.86002	-1.23071	-5.16517	0.074
Asta 24 (56-66)	54	massimi	411.00	0.58359	0.056	15.46202	-1.23071	33.79947	-0.039
Asta 24 (56-66)	54	minimi	0.00	0.37472	0.05356	28.23193	-1.26861	-60.15522	0.181
Asta 24 (56-66)	54	minimi	205.50	0.37472	0.05356	21.20383	-1.26861	-5.57643	0.071
Asta 24 (56-66)	54	minimi	411.00	0.37472	0.05356	14.17573	-1.26861	31.18732	-0.041
Asta 25 (56-86)	55	massimi	0.00	0.32205	-2.62584	-71.23922	-0.88104	9.46664	-1.171
Asta 25 (56-86)	55	massimi	166.00	-0.03106	-0.04217	2.09244	-0.88103	-43.46813	1.117
Asta 25 (56-86)	55	massimi	332.00	-0.38441	2.63081	77.93286	-0.88102	15.32442	-0.879
Asta 25 (56-86)	55	minimi	0.00	0.29489	-2.86399	-75.92828	-0.95288	8.8894	-1.251
Asta 25 (56-86)	55	minimi	166.00	-0.0529	-0.06084	1.93538	-0.95287	-46.31136	1.015
Asta 25 (56-86)	55	minimi	332.00	-0.40111	2.34361	73.08476	-0.95286	14.30272	-1.028
Asta 26 (91-61)	56	massimi	0.00	-0.43988	2.52648	-12.91099	0.29879	-4.07009	0.82
Asta 26 (91-61)	56	massimi	166.00	-0.38959	-0.1049	-0.83044	0.29879	-13.91366	-1.07
Asta 26 (91-61)	56	massimi	332.00	-0.34228	-2.63746	12.66586	0.29879	-6.39518	1.251
Asta 26 (91-61)	56	minimi	0.00	-0.49654	2.26048	-13.50232	0.26998	-4.36578	0.712
Asta 26 (91-61)	56	minimi	166.00	-0.43229	-0.11033	-0.89417	0.26998	-14.67225	-1.183
Asta 26 (91-61)	56	minimi	332.00	-0.37134	-2.88215	12.11491	0.26998	-6.85779	1.166
Asta 27 (81-66)	57	massimi	0.00	46.68994	0.35763	-1.04036	-13.36572	7.79471	0.556
Asta 27 (81-66)	57	massimi	120.50	46.68994	0.35763	-5.16146	-13.36572	3.59545	0.125
Asta 27 (81-66)	57	massimi	241.00	46.68994	0.35763	-9.28256	-13.36572	-5.25658	-0.178
Asta 27 (81-66)	57	minimi	0.00	43.32233	0.24244	-1.31587	-14.48198	7.18253	0.407
Asta 27 (81-66)	57	minimi	120.50	43.32233	0.24244	-5.65387	-14.48198	3.44594	0.115
Asta 27 (81-66)	57	minimi	241.00	43.32233	0.24244	-9.99187	-14.48198	-5.83111	-0.306
Asta 28 (101-71)	58	massimi	0.00	1.85035	0.93221	17.17043	0.37072	-14.87301	2.826
Asta 28 (101-71)	58	massimi	237.00	1.85035	0.93221	1.88393	0.37072	6.56513	0.617

Asta 28 (101-71)	58	massimi	474.00	1.85035	0.93221	-12.768	0.37072	-6.97951	-1.593
Asta 28 (101-71)	58	minimi	0.00	1.74843	0.92025	16.09859	0.33693	-16.01427	2.746
Asta 28 (101-71)	58	minimi	237.00	1.74843	0.92025	1.66529	0.33693	6.1772	0.565
Asta 28 (101-71)	58	minimi	474.00	1.74843	0.92025	-13.40257	0.33693	-7.08446	-1.616
Asta 29 (71-241)	59	massimi	0.00	38.20562	-0.12007	24.87145	0.0155	-31.95656	-0.87
Asta 29 (71-241)	59	massimi	315.00	38.20562	-0.12007	4.55395	0.0155	10.01637	-0.492
Asta 29 (71-241)	59	massimi	630.00	38.20562	-0.12007	-15.59998	0.0155	-7.63876	-0.114
Asta 29 (71-241)	59	minimi	0.00	30.89398	-0.12387	22.76701	0.00462	-36.32862	-0.919
Asta 29 (71-241)	59	minimi	315.00	30.89398	-0.12387	3.58351	0.00462	9.54552	-0.529
Asta 29 (71-241)	59	minimi	630.00	30.89398	-0.12387	-15.76355	0.00462	-9.38042	-0.138
Asta 30 (76-81)	60	massimi	0.00	24.90747	0.03411	14.54562	-0.89616	-19.13186	0.074
Asta 30 (76-81)	60	massimi	307.50	24.90747	0.03411	3.47612	-0.89616	8.13568	-0.028
Asta 30 (76-81)	60	massimi	615.00	24.90747	0.03411	-7.04038	-0.89616	2.24626	-0.116
Asta 30 (76-81)	60	minimi	0.00	22.45151	0.02874	13.99262	-0.96256	-19.57198	0.06
Asta 30 (76-81)	60	minimi	307.50	22.45151	0.02874	3.47562	-0.96256	7.72632	-0.031
Asta 30 (76-81)	60	minimi	615.00	22.45151	0.02874	-7.59438	-0.96256	1.80309	-0.136
Asta 31 (76-106)	61	massimi	0.00	7.63166	0.09497	11.89848	1.03312	-3.55572	0.206
Asta 31 (76-106)	61	massimi	237.00	7.63166	0.09497	-3.02785	1.03312	6.52917	-0.017
Asta 31 (76-106)	61	massimi	474.00	7.63166	0.09497	-17.46115	1.03312	-18.12625	-0.146
Asta 31 (76-106)	61	minimi	0.00	7.19386	0.05449	11.40545	0.86473	-3.77424	0.112
Asta 31 (76-106)	61	minimi	237.00	7.19386	0.05449	-3.38802	0.86473	6.15321	-0.019
Asta 31 (76-106)	61	minimi	474.00	7.19386	0.05449	-18.67452	0.86473	-19.61494	-0.244
Asta 32 (241-76)	62	massimi	0.00	34.64775	-0.07745	16.87706	-0.41544	-9.8501	0.004
Asta 32 (241-76)	62	massimi	315.00	34.64775	-0.07745	-2.53562	-0.41544	11.31258	0.278
Asta 32 (241-76)	62	massimi	630.00	34.64775	-0.07745	-21.71912	-0.41544	-27.54562	0.565
Asta 32 (241-76)	62	minimi	0.00	27.98741	-0.09116	16.64787	-0.45417	-11.57118	-0.009
Asta 32 (241-76)	62	minimi	315.00	27.98741	-0.09116	-3.44044	-0.45417	10.65561	0.248
Asta 32 (241-76)	62	minimi	630.00	27.98741	-0.09116	-23.75794	-0.45417	-31.52486	0.492
Asta 33 (96-81)	63	massimi	0.00	46.53431	-1.02416	14.93933	28.87532	2.04983	-0.322
Asta 33 (96-81)	63	massimi	45.50	46.53431	-1.02416	13.30133	28.87532	8.47458	0.171
Asta 33 (96-81)	63	massimi	91.00	46.53431	-1.02416	11.66333	28.87532	14.15404	0.795
Asta 33 (96-81)	63	minimi	0.00	43.36409	-1.37237	13.58025	26.64286	1.91063	-0.454
Asta 33 (96-81)	63	minimi	45.50	43.36409	-1.37237	12.02415	26.64286	7.73563	0.144
Asta 33 (96-81)	63	minimi	91.00	43.36409	-1.37237	10.46805	26.64286	12.8526	0.61
Asta 34 (86-91)	64	massimi	0.00	-4.01069	-0.73851	-31.12929	-5.43587	-37.10184	-0.997

Asta 34 (86-91)	64	massimi	204.50	-1.05367	-0.3918	14.13344	-5.43586	-37.16122	0.13
Asta 34 (86-91)	64	massimi	409.00	1.91452	-0.28369	21.3164	-5.43586	-6.68698	0.895
Asta 34 (86-91)	64	minimi	0.00	-4.67088	-0.80189	-32.91494	-5.81862	-39.89895	-1.106
Asta 34 (86-91)	64	minimi	204.50	-1.37021	-0.44497	13.17338	-5.81861	-39.56647	0.119
Asta 34 (86-91)	64	minimi	409.00	1.89108	-0.32829	20.21886	-5.81861	-7.19368	0.783
Asta 35 (86-96)	65	massimi	0.00	1.4941	-0.01028	30.73856	4.86461	-54.40115	-0.088
Asta 35 (86-96)	65	massimi	205.50	1.4941	-0.01028	23.34056	4.86461	-2.67808	-0.055
Asta 35 (86-96)	65	massimi	411.00	1.4941	-0.01028	15.94256	4.86461	37.47986	0.033
Asta 35 (86-96)	65	minimi	0.00	1.12197	-0.04284	28.68343	4.51828	-58.44983	-0.143
Asta 35 (86-96)	65	minimi	205.50	1.12197	-0.04284	21.65533	4.51828	-2.88354	-0.067
Asta 35 (86-96)	65	minimi	411.00	1.12197	-0.04284	14.62723	4.51828	34.60224	-0.046
Asta 36 (111-96)	66	massimi	0.00	46.57716	0.12174	12.78477	-7.95938	-14.645	0.059
Asta 36 (111-96)	66	massimi	191.50	46.57716	0.12174	5.89077	-7.95938	2.23461	-0.168
Asta 36 (111-96)	66	massimi	383.00	46.57716	0.12174	-1.00323	-7.95938	6.91443	-0.355
Asta 36 (111-96)	66	minimi	0.00	43.37437	0.09781	12.05163	-8.60455	-15.64723	0.02
Asta 36 (111-96)	66	minimi	191.50	43.37437	0.09781	5.50233	-8.60455	2.16291	-0.175
Asta 36 (111-96)	66	minimi	383.00	43.37437	0.09781	-1.04698	-8.60455	6.42891	-0.408
Asta 37 (116-101)	67	massimi	0.00	45.44479	-0.96012	-15.52533	0.31662	38.49503	-1.416
Asta 37 (116-101)	67	massimi	173.00	45.44479	-0.96012	-26.06103	0.31662	-1.5444	0.246
Asta 37 (116-101)	67	massimi	346.00	45.44479	-0.96012	-36.59673	0.31662	-55.74337	2.03
Asta 37 (116-101)	67	minimi	0.00	41.21655	-1.03088	-17.69731	0.22266	34.42781	-1.537
Asta 37 (116-101)	67	minimi	173.00	41.21655	-1.03088	-28.85581	0.22266	-1.77342	0.245
Asta 37 (116-101)	67	minimi	346.00	41.21655	-1.03088	-40.01431	0.22266	-61.34608	1.906
Asta 38 (106-111)	68	massimi	0.00	21.74775	0.02648	10.18354	-1.52404	-8.19527	0.139
Asta 38 (106-111)	68	massimi	307.50	21.74775	0.02648	-0.68348	-1.52404	6.09238	0.057
Asta 38 (106-111)	68	massimi	615.00	21.74775	0.02648	-11.19999	-1.52404	-12.39869	-0.024
Asta 38 (106-111)	68	minimi	0.00	19.24887	0.02588	9.83302	-1.63248	-8.20188	0.134
Asta 38 (106-111)	68	minimi	307.50	19.24887	0.02588	-0.88646	-1.63248	5.87214	0.054
Asta 38 (106-111)	68	minimi	615.00	19.24887	0.02588	-11.95646	-1.63248	-13.65361	-0.025
Asta 39	69	massimi	0.00	38.36089	-0.69795	-11.4814	-0.15135	18.76911	-0.887

(121-106)									
Asta 39 (121-106)	69	massimi	127.00	38.36089	-0.69795	-19.2157	-0.15135	-2.97196	0.026
Asta 39 (121-106)	69	massimi	254.00	38.36089	-0.69795	-26.95	-0.15135	-32.28718	1.039
Asta 39 (121-106)	69	minimi	0.00	34.81352	-0.79758	-13.18764	-0.16645	16.52069	-0.987
Asta 39 (121-106)	69	minimi	127.00	34.81352	-0.79758	-21.37914	-0.16645	-3.18079	-0.001
Asta 39 (121-106)	69	minimi	254.00	34.81352	-0.79758	-29.57064	-0.16645	-35.53389	0.885
Asta 40 (111-141)	70	massimi	0.00	29.16604	-0.40221	-2.67361	2.27372	18.46349	-0.961
Asta 40 (111-141)	70	massimi	165.00	29.16604	-0.40221	-8.31662	2.27372	8.38937	-0.297
Asta 40 (111-141)	70	massimi	330.00	29.16604	-0.40221	-13.95962	2.27372	-10.46615	0.367
Asta 40 (111-141)	70	minimi	0.00	27.23615	-0.42025	-3.13553	1.98125	16.97869	-1.02
Asta 40 (111-141)	70	minimi	165.00	27.23615	-0.42025	-9.07553	1.98125	7.91175	-0.326
Asta 40 (111-141)	70	minimi	330.00	27.23615	-0.42025	-15.01553	1.98125	-11.48575	0.367
Asta 41 (116-121)	71	massimi	0.00	72.36004	0.3814	19.45849	-0.44403	-12.12186	1.568
Asta 41 (116-121)	71	massimi	330.00	72.36004	0.3814	-1.65968	-0.44403	16.59948	0.309
Asta 41 (116-121)	71	massimi	660.00	72.36004	0.3814	-21.75667	-0.44403	-23.07571	-0.858
Asta 41 (116-121)	71	minimi	0.00	65.65718	0.34783	18.43732	-0.47194	-12.4933	1.438
Asta 41 (116-121)	71	minimi	330.00	65.65718	0.34783	-1.82651	-0.47194	15.56126	0.29
Asta 41 (116-121)	71	minimi	660.00	65.65718	0.34783	-23.11151	-0.47194	-24.54825	-0.95
Asta 42 (126-116)	72	massimi	0.00	13.18867	-0.08781	11.3386	2.94973	-10.54324	-0.399
Asta 42 (126-116)	72	massimi	330.00	13.18867	-0.08781	-0.50508	2.94973	6.62502	-0.109
Asta 42 (126-116)	72	massimi	660.00	13.18867	-0.08781	-11.79108	2.94973	-13.87677	0.203
Asta 42 (126-116)	72	minimi	0.00	11.77026	-0.09754	10.78092	2.69328	-11.19037	-0.441
Asta 42 (126-116)	72	minimi	330.00	11.77026	-0.09754	-0.5414	2.69328	6.4119	-0.119
Asta 42 (126-116)	72	minimi	660.00	11.77026	-0.09754	-12.4214	2.69328	-14.7636	0.18

Asta 43 (121-136)	73	massimi	0.00	11.48507	-1.04422	10.17992	-0.47585	-8.08517	-1.629
Asta 43 (121-136)	73	massimi	165.00	11.48507	-1.04422	4.23992	-0.47585	2.81776	0.104
Asta 43 (121-136)	73	massimi	330.00	11.48507	-1.04422	-1.70008	-0.47585	4.91313	1.993
Asta 43 (121-136)	73	minimi	0.00	10.18193	-1.14483	9.32374	-0.49312	-9.07862	-1.785
Asta 43 (121-136)	73	minimi	165.00	10.18193	-1.14483	3.68074	-0.49312	2.64352	0.094
Asta 43 (121-136)	73	minimi	330.00	10.18193	-1.14483	-1.96227	-0.49312	4.06125	1.817
Asta 44 (131-126)	74	massimi	0.00	14.46905	-0.07727	11.65734	-0.61028	-10.72845	-0.223
Asta 44 (131-126)	74	massimi	330.00	14.46905	-0.07727	-0.20992	-0.61028	7.59918	0.035
Asta 44 (131-126)	74	massimi	660.00	14.46905	-0.07727	-11.49592	-0.61028	-12.11393	0.312
Asta 44 (131-126)	74	minimi	0.00	13.60129	-0.08372	11.07608	-0.72107	-11.26805	-0.241
Asta 44 (131-126)	74	minimi	330.00	13.60129	-0.08372	-0.22266	-0.72107	7.20072	0.032
Asta 44 (131-126)	74	minimi	660.00	13.60129	-0.08372	-12.10266	-0.72107	-12.73759	0.287
Asta 45 (136-131)	75	massimi	0.00	10.59663	0.52836	-1.26091	1.42382	10.01116	0.837
Asta 45 (136-131)	75	massimi	165.00	10.59663	0.52836	-6.90392	1.42382	1.97028	-0.031
Asta 45 (136-131)	75	massimi	330.00	10.59663	0.52836	-12.54692	1.42382	-14.18017	-0.819
Asta 45 (136-131)	75	minimi	0.00	9.41567	0.47756	-1.90326	1.33524	8.60275	0.757
Asta 45 (136-131)	75	minimi	165.00	9.41567	0.47756	-7.84326	1.33524	1.86676	-0.035
Asta 45 (136-131)	75	minimi	330.00	9.41567	0.47756	-13.78326	1.33524	-15.87161	-0.907
Asta 46 (156-131)	76	massimi	0.00	7.16472	0.00994	10.91172	-0.43617	-7.2757	0.185
Asta 46 (156-131)	76	massimi	244.50	7.16472	0.00994	2.10972	-0.43617	8.07571	0.171
Asta 46 (156-131)	76	massimi	489.00	7.16472	0.00994	-6.44338	-0.43617	2.47352	0.157
Asta 46 (156-131)	76	minimi	0.00	6.70826	0.00579	10.28042	-0.46565	-7.843	0.183
Asta 46 (156-131)	76	minimi	244.50	6.70826	0.00579	1.91852	-0.46565	7.63751	0.158
Asta 46 (156-131)	76	minimi	489.00	6.70826	0.00579	-6.69228	-0.46565	2.10587	0.134

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Asta 47 (136-151)	77	massimi	0.00	9.72882	-0.03644	7.14501	-0.43742	-1.53606	-0.168
Asta 47 (136-151)	77	massimi	244.50	9.72882	-0.03644	-1.46928	-0.43742	5.17306	-0.079
Asta 47 (136-151)	77	massimi	489.00	9.72882	-0.03644	-9.83119	-0.43742	-8.92552	0.018
Asta 47 (136-151)	77	minimi	0.00	8.9792	-0.04309	6.89262	-0.4466	-1.74072	-0.192
Asta 47 (136-151)	77	minimi	244.50	8.9792	-0.04309	-1.65699	-0.4466	4.88931	-0.087
Asta 47 (136-151)	77	minimi	489.00	8.9792	-0.04309	-10.45899	-0.4466	-9.63872	0.01
Asta 48 (146-141)	78	massimi	0.00	7.75099	-0.1508	-25.73522	-3.64611	-16.27624	0.074
Asta 48 (146-141)	78	massimi	165.00	3.82461	-0.6147	-2.23561	-3.64611	-54.67389	0.407
Asta 48 (146-141)	78	massimi	330.00	-0.07279	-3.15736	186.84618	-3.64611	65.64421	3.595
Asta 48 (146-141)	78	minimi	0.00	7.14668	-0.18049	-26.1461	-3.68	-17.66194	-0.002
Asta 48 (146-141)	78	minimi	165.00	3.5196	-0.70452	-2.44968	-3.68	-57.75416	0.401
Asta 48 (146-141)	78	minimi	330.00	-0.08082	-3.52262	175.85529	-3.68	61.66416	3.254
Asta 49 (151-141)	79	massimi	0.00	2.94378	0.7054	-2.68651	-5.31662	13.56867	1.174
Asta 49 (151-141)	79	massimi	190.00	2.94378	0.7054	-9.18451	-5.31662	1.07697	-0.149
Asta 49 (151-141)	79	massimi	380.00	2.94378	0.7054	-15.68251	-5.31662	-22.55846	-1.382
Asta 49 (151-141)	79	minimi	0.00	2.7496	0.64852	-3.15458	-5.6683	12.34269	1.083
Asta 49 (151-141)	79	minimi	190.00	2.7496	0.64852	-9.99458	-5.6683	1.06521	-0.167
Asta 49 (151-141)	79	minimi	380.00	2.7496	0.64852	-16.83458	-5.6683	-24.41073	-1.507
Asta 50 (156-146)	80	massimi	0.00	2.80197	0.70596	-124.7014	-5.76263	19.78612	-0.332
Asta 50 (156-146)	80	massimi	190.00	2.00465	0.21208	20.24524	-5.76263	-49.76438	-1.416
Asta 50 (156-146)	80	massimi	380.00	1.22748	-2.61635	24.97671	-5.76264	4.32297	0.469
Asta 50 (156-146)	80	minimi	0.00	2.57803	0.63729	-132.80465	-6.23804	18.64869	-0.355
Asta 50 (156-146)	80	minimi	190.00	1.83439	0.17781	18.8196	-6.23804	-52.68855	-1.56
Asta 50	80	minimi	380.00	1.10918	-2.80609	24.50054	-6.23805	4.29614	0.435

(156-146)									
Asta 51 (12-2)	81	massimi	0.00	-1.7724	-0.60302	15.88331	-1.91773	0.51229	-1.213
Asta 51 (12-2)	81	massimi	237.00	-1.7724	-0.60302	-6.36708	-1.91773	9.86991	0.229
Asta 51 (12-2)	81	massimi	474.00	-1.7724	-0.60302	-28.61748	-1.91773	-31.5868	1.827
Asta 51 (12-2)	81	minimi	0.00	-1.9867	-0.67437	15.07158	-2.34045	-1.40683	-1.37
Asta 51 (12-2)	81	minimi	237.00	-1.9867	-0.67437	-7.17882	-2.34045	9.86521	0.217
Asta 51 (12-2)	81	minimi	474.00	-1.9867	-0.67437	-29.42922	-2.34045	-33.51532	1.646
Asta 52 (2-222)	82	massimi	0.00	1.15591	0.5468	97.18036	-0.58079	-93.98435	1.898
Asta 52 (2-222)	82	massimi	315.00	1.15591	0.5468	9.05596	-0.58079	55.75143	0.175
Asta 52 (2-222)	82	massimi	630.00	1.15591	0.5468	-70.44116	-0.58079	-52.23591	-1.436
Asta 52 (2-222)	82	minimi	0.00	-0.55436	0.49372	83.69464	-0.60122	-111.57079	1.675
Asta 52 (2-222)	82	minimi	315.00	-0.55436	0.49372	6.62674	-0.60122	48.27181	0.12
Asta 52 (2-222)	82	minimi	630.00	-0.55436	0.49372	-79.06844	-0.60122	-54.51822	-1.547
Asta 53 (7-17)	83	massimi	0.00	-2.70203	0.29311	38.60541	-1.09736	-52.40102	0.485
Asta 53 (7-17)	83	massimi	237.00	-2.70203	0.29311	16.35501	-1.09736	8.9981	-0.21
Asta 53 (7-17)	83	massimi	474.00	-2.70203	0.29311	-5.89539	-1.09736	21.28278	-0.869
Asta 53 (7-17)	83	minimi	0.00	-2.96185	0.26899	37.032	-1.14404	-56.23996	0.406
Asta 53 (7-17)	83	minimi	237.00	-2.96185	0.26899	14.7816	-1.14404	8.88813	-0.231
Asta 53 (7-17)	83	minimi	474.00	-2.96185	0.26899	-7.46879	-1.14404	17.66378	-0.905
Asta 54 (222-7)	84	massimi	0.00	3.16784	-0.29389	76.13665	1.16138	-49.11033	-1.43
Asta 54 (222-7)	84	massimi	315.00	3.16784	-0.29389	-9.18798	1.16138	50.10085	-0.504
Asta 54 (222-7)	84	massimi	630.00	3.16784	-0.29389	-86.25588	1.16138	-106.99457	0.421
Asta 54 (222-7)	84	minimi	0.00	1.7532	-0.30669	67.87992	1.06378	-50.93366	-1.529
Asta 54 (222-7)	84	minimi	315.00	1.7532	-0.30669	-11.98775	1.06378	43.32949	-0.563
Asta 54 (222-7)	84	minimi	630.00	1.7532	-0.30669	-100.11215	1.06378	-126.4565	0.403
Asta 55 (27-12)	85	massimi	0.00	-3.24216	-0.30053	22.9516	-0.6037	-18.02117	-0.861
Asta 55 (27-12)	85	massimi	237.00	-3.24216	-0.30053	0.70121	-0.6037	9.97035	-0.148
Asta 55 (27-12)	85	massimi	474.00	-3.24216	-0.30053	-21.54919	-0.6037	-14.73451	0.597
Asta 55 (27-12)	85	minimi	0.00	-3.60208	-0.32783	22.88314	-0.67359	-18.05823	-0.957
Asta 55 (27-12)	85	minimi	237.00	-3.60208	-0.32783	0.63274	-0.67359	9.84515	-0.18
Asta 55 (27-12)	85	minimi	474.00	-3.60208	-0.32783	-21.61766	-0.67359	-15.02197	0.564
Asta 56 (12-227)	86	massimi	0.00	-4.92362	0.5612	178.28949	-0.0518	-178.79178	2.318
Asta 56 (12-227)	86	massimi	315.00	-4.92362	0.5612	20.4682	-0.0518	100.9291	0.55
Asta 56 (12-227)	86	massimi	630.00	-4.92362	0.5612	-120.34889	-0.0518	-78.45538	-1.094
Asta 56 (12-227)	86	minimi	0.00	-10.75491	0.49733	152.20171	-0.05342	-212.11426	2.039

Asta 56 (12-227)	86	minimi	315.00	-10.75491	0.49733	15.92641	-0.05342	86.01002	0.473
Asta 56 (12-227)	86	minimi	630.00	-10.75491	0.49733	-137.3531	-0.05342	-83.16463	-1.218
Asta 57 (22-17)	87	massimi	0.00	1.64789	-0.71815	91.22579	4.13639	-34.92837	-2.207
Asta 57 (22-17)	87	massimi	307.50	1.64789	-0.71815	-12.17639	4.13639	80.41744	0.002
Asta 57 (22-17)	87	massimi	615.00	1.64789	-0.71815	-107.94635	4.13639	-109.81319	2.274
Asta 57 (22-17)	87	minimi	0.00	1.45303	-0.74085	83.59356	3.8497	-37.11194	-2.282
Asta 57 (22-17)	87	minimi	307.50	1.45303	-0.74085	-14.78392	3.8497	74.87552	-0.004
Asta 57 (22-17)	87	minimi	615.00	1.45303	-0.74085	-120.79362	3.8497	-128.03303	2.21
Asta 58 (17-32)	88	massimi	0.00	-5.81467	0.41973	26.57912	-1.48369	-24.38927	1.268
Asta 58 (17-32)	88	massimi	237.00	-5.81467	0.41973	4.32873	-1.48369	11.14653	0.273
Asta 58 (17-32)	88	massimi	474.00	-5.81467	0.41973	-17.92167	-1.48369	-4.96111	-0.721
Asta 58 (17-32)	88	minimi	0.00	-6.41697	0.40911	26.0229	-1.70411	-25.47927	1.218
Asta 58 (17-32)	88	minimi	237.00	-6.41697	0.40911	3.7725	-1.70411	10.91829	0.248
Asta 58 (17-32)	88	minimi	474.00	-6.41697	0.40911	-18.47789	-1.70411	-6.5076	-0.722
Asta 59 (227-17)	89	massimi	0.00	-2.46862	-0.0479	130.3303	1.3525	-74.24609	-1.001
Asta 59 (227-17)	89	massimi	315.00	-2.46862	-0.0479	-21.78055	1.3525	83.9672	-0.85
Asta 59 (227-17)	89	massimi	630.00	-2.46862	-0.0479	-158.05585	1.3525	-211.46356	-0.699
Asta 59 (227-17)	89	minimi	0.00	-7.73651	-0.05223	114.49475	1.19718	-78.00469	-1.105
Asta 59 (227-17)	89	minimi	315.00	-7.73651	-0.05223	-27.491	1.19718	71.77877	-0.941
Asta 59 (227-17)	89	minimi	630.00	-7.73651	-0.05223	-185.3123	1.19718	-251.19801	-0.776
Asta 60 (37-22)	90	massimi	0.00	-10.42889	0.66102	8.57778	4.80024	46.16905	0.913
Asta 60 (37-22)	90	massimi	237.00	-10.42889	0.66102	-20.95312	4.80024	25.20937	-0.624
Asta 60 (37-22)	90	massimi	474.00	-10.42889	0.66102	-50.48402	4.80024	-60.6142	-2.16
Asta 60 (37-22)	90	minimi	0.00	-11.22075	0.64816	5.9217	3.51872	38.7036	0.898
Asta 60 (37-22)	90	minimi	237.00	-11.22075	0.64816	-23.6092	3.51872	24.03882	-0.669
Asta 60 (37-22)	90	minimi	474.00	-11.22075	0.64816	-53.1401	3.51872	-65.73854	-2.235
Asta 61 (42-27)	91	massimi	0.00	-3.89016	0.07124	22.89916	-0.04196	-18.87434	-0.227
Asta 61 (42-27)	91	massimi	237.00	-3.89016	0.07124	0.64876	-0.04196	8.87892	-0.387
Asta 61 (42-27)	91	massimi	474.00	-3.89016	0.07124	-21.60164	-0.04196	-15.95023	-0.546
Asta 61 (42-27)	91	minimi	0.00	-4.3131	0.06727	22.83113	-0.04902	-19.02536	-0.251
Asta 61 (42-27)	91	minimi	237.00	-4.3131	0.06727	0.58073	-0.04902	8.86872	-0.42
Asta 61 (42-27)	91	minimi	474.00	-4.3131	0.06727	-21.66967	-0.04902	-16.12167	-0.589
Asta 62 (27-232)	92	massimi	0.00	-4.04008	0.17876	173.9708	0.03999	-165.28161	0.792
Asta 62 (27-232)	92	massimi	315.00	-4.04008	0.17876	16.1495	0.03999	102.43519	0.229
Asta 62 (27-232)	92	massimi	630.00	-4.04008	0.17876	-124.19352	0.03999	-89.16638	-0.302

Asta 62 (27-232)	92	minimi	0.00	-9.70802	0.15984	148.35708	0.01829	-197.00427	0.705
Asta 62 (27-232)	92	minimi	315.00	-9.70802	0.15984	12.08178	0.01829	87.4096	0.202
Asta 62 (27-232)	92	minimi	630.00	-9.70802	0.15984	-141.6718	0.01829	-95.26243	-0.334
Asta 63 (37-32)	93	massimi	0.00	3.36017	-1.16882	134.83109	3.30036	-61.93474	-3.666
Asta 63 (37-32)	93	massimi	307.50	3.36017	-1.16882	-16.25255	3.30036	106.86071	-0.072
Asta 63 (37-32)	93	massimi	615.00	3.36017	-1.16882	-149.2832	3.30036	-161.88792	3.735
Asta 63 (37-32)	93	minimi	0.00	2.65248	-1.23865	116.7781	3.04377	-70.87203	-3.883
Asta 63 (37-32)	93	minimi	307.50	2.65248	-1.23865	-19.23256	3.04377	92.6233	-0.074
Asta 63 (37-32)	93	minimi	615.00	2.65248	-1.23865	-173.29621	3.04377	-189.15226	3.522
Asta 64 (32-47)	94	massimi	0.00	-7.14559	0.93416	22.96804	-0.24503	-18.30354	2.468
Asta 64 (32-47)	94	massimi	237.00	-7.14559	0.93416	0.71765	-0.24503	9.76251	0.254
Asta 64 (32-47)	94	massimi	474.00	-7.14559	0.93416	-21.53275	-0.24503	-14.90488	-1.837
Asta 64 (32-47)	94	minimi	0.00	-7.90578	0.87159	22.96741	-0.27165	-18.42746	2.295
Asta 64 (32-47)	94	minimi	237.00	-7.90578	0.87159	0.71702	-0.27165	9.64008	0.229
Asta 64 (32-47)	94	minimi	474.00	-7.90578	0.87159	-21.53338	-0.27165	-15.02582	-1.96
Asta 65 (232-32)	95	massimi	0.00	-0.55804	0.06089	131.47058	0.36927	-83.12776	-0.297
Asta 65 (232-32)	95	massimi	315.00	-0.55804	0.06089	-20.77413	0.36927	77.41168	-0.466
Asta 65 (232-32)	95	massimi	630.00	-0.55804	0.06089	-157.04943	0.36927	-214.00476	-0.635
Asta 65 (232-32)	95	minimi	0.00	-5.6135	0.05376	115.50117	0.31212	-88.1521	-0.323
Asta 65 (232-32)	95	minimi	315.00	-5.6135	0.05376	-26.35072	0.31212	66.06734	-0.514
Asta 65 (232-32)	95	minimi	630.00	-5.6135	0.05376	-184.17202	0.31212	-254.16165	-0.706
Asta 66 (52-37)	96	massimi	0.00	-22.44391	0.80226	17.6943	-2.19703	44.49932	0.778
Asta 66 (52-37)	96	massimi	237.00	-22.44391	0.80226	-11.8366	-2.19703	50.35063	-1.021
Asta 66 (52-37)	96	massimi	474.00	-22.44391	0.80226	-41.3675	-2.19703	-13.78628	-2.79
Asta 66 (52-37)	96	minimi	0.00	-24.18198	0.74643	17.23436	-2.25664	39.51181	0.748
Asta 66 (52-37)	96	minimi	237.00	-24.18198	0.74643	-12.29654	-2.25664	46.45319	-1.123
Asta 66 (52-37)	96	minimi	474.00	-24.18198	0.74643	-41.82744	-2.25664	-16.59367	-3.025
Asta 67 (72-42)	97	massimi	0.00	-4.31009	0.34344	22.72684	0.53802	-18.02558	0.534
Asta 67 (72-42)	97	massimi	237.00	-4.31009	0.34344	0.47644	0.53802	9.4405	-0.242
Asta 67 (72-42)	97	massimi	474.00	-4.31009	0.34344	-21.77396	0.53802	-15.79707	-1.018
Asta 67 (72-42)	97	minimi	0.00	-4.76255	0.3273	22.67836	0.48478	-18.05538	0.529
Asta 67 (72-42)	97	minimi	237.00	-4.76255	0.3273	0.42796	0.48478	9.35541	-0.285
Asta 67 (72-42)	97	minimi	474.00	-4.76255	0.3273	-21.82244	0.48478	-15.99705	-1.099
Asta 68 (42-237)	98	massimi	0.00	-5.45796	-0.12614	173.67079	-0.08442	-164.63295	-0.793
Asta 68 (42-237)	98	massimi	315.00	-5.45796	-0.12614	15.84949	-0.08442	102.24449	-0.396

Asta 68 (42-237)	98	massimi	630.00	-5.45796	-0.12614	-124.45266	-0.08442	-90.15028	0.008
Asta 68 (42-237)	98	minimi	0.00	-11.23599	-0.13631	148.09794	-0.08609	-196.24996	-0.851
Asta 68 (42-237)	98	minimi	315.00	-11.23599	-0.13631	11.82264	-0.08609	87.24198	-0.421
Asta 68 (42-237)	98	minimi	630.00	-11.23599	-0.13631	-141.97181	-0.08609	-96.39815	0.001
Asta 69 (52-47)	99	massimi	0.00	-1.24881	-2.01412	129.64647	0.32837	-49.92715	-6.591
Asta 69 (52-47)	99	massimi	307.50	-1.24881	-2.01412	-20.99941	0.32837	104.30171	-0.398
Asta 69 (52-47)	99	massimi	615.00	-1.24881	-2.01412	-154.03006	0.32837	-179.07355	6.246
Asta 69 (52-47)	99	minimi	0.00	-2.3421	-2.17059	112.03123	0.30177	-57.48834	-7.104
Asta 69 (52-47)	99	minimi	307.50	-2.3421	-2.17059	-24.41718	0.30177	90.03428	-0.429
Asta 69 (52-47)	99	minimi	615.00	-2.3421	-2.17059	-178.48083	0.30177	-207.65397	5.796
Asta 70 (47-77)	100	massimi	0.00	-7.45327	1.55513	22.54647	0.78143	-16.71575	3.881
Asta 70 (47-77)	100	massimi	237.00	-7.45327	1.55513	0.29608	0.78143	10.22596	0.195
Asta 70 (47-77)	100	massimi	474.00	-7.45327	1.55513	-21.95432	0.78143	-15.56578	-3.235
Asta 70 (47-77)	100	minimi	0.00	-8.24061	1.43933	22.49301	0.71827	-16.98505	3.588
Asta 70 (47-77)	100	minimi	237.00	-8.24061	1.43933	0.24261	0.71827	10.08337	0.177
Asta 70 (47-77)	100	minimi	474.00	-8.24061	1.43933	-22.00779	0.71827	-15.58165	-3.491
Asta 71 (237-47)	101	massimi	0.00	-2.44279	-0.02183	131.77393	-0.16814	-84.76828	-0.12
Asta 71 (237-47)	101	massimi	315.00	-2.44279	-0.02183	-20.51598	-0.16814	76.5115	-0.047
Asta 71 (237-47)	101	massimi	630.00	-2.44279	-0.02183	-156.79128	-0.16814	-214.01896	0.028
Asta 71 (237-47)	101	minimi	0.00	-7.65322	-0.02359	115.75932	-0.17601	-90.00784	-0.121
Asta 71 (237-47)	101	minimi	315.00	-7.65322	-0.02359	-26.04737	-0.17601	65.23998	-0.051
Asta 71 (237-47)	101	minimi	630.00	-7.65322	-0.02359	-183.86867	-0.17601	-254.10625	0.018
Asta 72 (67-52)	102	massimi	0.00	-17.36905	2.13852	-12.21405	1.7872	64.56967	0.195
Asta 72 (67-52)	102	massimi	116.50	-17.36905	2.13852	-23.38737	1.7872	43.45749	-2.117
Asta 72 (67-52)	102	massimi	233.00	-17.36905	2.13852	-34.5607	1.7872	9.32838	-4.426
Asta 72 (67-52)	102	minimi	0.00	-19.02976	1.98228	-12.53538	1.63648	60.55809	0.193
Asta 72 (67-52)	102	minimi	116.50	-19.02976	1.98228	-23.70871	1.63648	39.82026	-2.296
Asta 72 (67-52)	102	minimi	233.00	-19.02976	1.98228	-34.88203	1.63648	6.06551	-4.788
Asta 73 (82-67)	103	massimi	0.00	-17.36905	2.13852	10.91616	1.7872	66.90804	5.349
Asta 73 (82-67)	103	massimi	120.50	-17.36905	2.13852	-0.64895	1.7872	72.70683	2.772
Asta 73 (82-67)	103	massimi	241.00	-17.36905	2.13852	-12.21405	1.7872	64.56967	0.195
Asta 73 (82-67)	103	minimi	0.00	-19.02976	1.98228	10.59482	1.63648	62.12205	4.97
Asta 73 (82-67)	103	minimi	120.50	-19.02976	1.98228	-0.97028	1.63648	68.30804	2.581
Asta 73 (82-67)	103	minimi	241.00	-19.02976	1.98228	-12.53538	1.63648	60.55809	0.193
Asta 74 (102-72)	104	massimi	0.00	-4.55949	1.24318	27.23614	0.26866	-27.53137	3.929

Asta 74 (102-72)	104	massimi	237.00	-4.55949	1.24318	4.98575	0.26866	9.02607	0.982
Asta 74 (102-72)	104	massimi	474.00	-4.55949	1.24318	-17.26465	0.26866	-5.65036	-1.748
Asta 74 (102-72)	104	minimi	0.00	-5.00564	1.12105	26.55028	-0.08885	-29.2828	3.566
Asta 74 (102-72)	104	minimi	237.00	-5.00564	1.12105	4.29988	-0.08885	8.90014	0.909
Asta 74 (102-72)	104	minimi	474.00	-5.00564	1.12105	-17.95052	-0.08885	-7.14993	-1.964
Asta 75 (72-242)	105	massimi	0.00	-9.06192	-0.39214	176.32634	-0.02742	-174.78104	-2.015
Asta 75 (72-242)	105	massimi	315.00	-9.06192	-0.39214	18.50504	-0.02742	99.30546	-0.78
Asta 75 (72-242)	105	massimi	630.00	-9.06192	-0.39214	-122.07166	-0.02742	-85.29814	0.521
Asta 75 (72-242)	105	minimi	0.00	-14.94538	-0.44149	150.47893	-0.05119	-207.55398	-2.26
Asta 75 (72-242)	105	minimi	315.00	-14.94538	-0.44149	14.20364	-0.05119	84.59401	-0.869
Asta 75 (72-242)	105	minimi	630.00	-14.94538	-0.44149	-139.31626	-0.05119	-90.9722	0.456
Asta 76 (82-77)	106	massimi	0.00	-9.05947	-2.06338	130.19778	-3.71879	-51.98483	-6.381
Asta 76 (82-77)	106	massimi	307.50	-9.05947	-2.06338	-20.57764	-3.71879	103.48592	-0.036
Asta 76 (82-77)	106	massimi	615.00	-9.05947	-2.06338	-153.60829	-3.71879	-178.53734	6.834
Asta 76 (82-77)	106	minimi	0.00	-10.73828	-2.23587	112.45301	-4.02527	-59.99938	-6.917
Asta 76 (82-77)	106	minimi	307.50	-10.73828	-2.23587	-23.86587	-4.02527	89.27354	-0.041
Asta 76 (82-77)	106	minimi	615.00	-10.73828	-2.23587	-177.92952	-4.02527	-206.7745	6.308
Asta 77 (77-107)	107	massimi	0.00	-7.54242	0.97915	16.58892	1.28522	-0.97306	2.686
Asta 77 (77-107)	107	massimi	237.00	-7.54242	0.97915	-5.66148	1.28522	10.02926	0.365
Asta 77 (77-107)	107	massimi	474.00	-7.54242	0.97915	-27.91188	1.28522	-29.75517	-1.773
Asta 77 (77-107)	107	minimi	0.00	-8.33317	0.8869	15.75745	1.19502	-2.91976	2.431
Asta 77 (77-107)	107	minimi	237.00	-8.33317	0.8869	-6.49295	1.19502	10.00537	0.329
Asta 77 (77-107)	107	minimi	474.00	-8.33317	0.8869	-28.74335	1.19502	-31.74964	-1.956
Asta 78 (242-77)	108	massimi	0.00	-9.21075	-0.00003	133.0529	-0.75478	-84.78565	0.296
Asta 78 (242-77)	108	massimi	315.00	-9.21075	-0.00003	-19.30663	-0.75478	80.64322	0.296
Asta 78 (242-77)	108	massimi	630.00	-9.21075	-0.00003	-155.58193	-0.75478	-206.41744	0.296
Asta 78 (242-77)	108	minimi	0.00	-14.81969	-0.00486	116.96867	-0.82834	-89.90486	0.248
Asta 78 (242-77)	108	minimi	315.00	-14.81969	-0.00486	-24.7684	-0.82834	69.03205	0.263
Asta 78 (242-77)	108	minimi	630.00	-14.81969	-0.00486	-182.5897	-0.82834	-245.9458	0.279
Asta 79 (97-82)	109	massimi	0.00	-15.91233	-0.50854	-6.99827	6.43268	86.94223	-1.614
Asta 79 (97-82)	109	massimi	45.50	-15.91233	-0.50854	-11.21758	6.43268	82.79812	-1.383
Asta 79 (97-82)	109	massimi	91.00	-15.91233	-0.50854	-15.43688	6.43268	76.73423	-1.151
Asta 79 (97-82)	109	minimi	0.00	-17.45017	-0.54227	-7.45667	6.17366	81.35282	-1.792
Asta 79 (97-82)	109	minimi	45.50	-17.45017	-0.54227	-11.67597	6.17366	77.00014	-1.545
Asta 79 (97-82)	109	minimi	91.00	-17.45017	-0.54227	-15.89528	6.17366	70.72768	-1.299

Asta 80 (112-97)	110	massimi	0.00	-15.91233	-0.50854	30.03998	6.43268	42.81736	-3.562
Asta 80 (112-97)	110	massimi	191.50	-15.91233	-0.50854	11.52085	6.43268	82.61186	-2.588
Asta 80 (112-97)	110	massimi	383.00	-15.91233	-0.50854	-6.99827	6.43268	86.94223	-1.614
Asta 80 (112-97)	110	minimi	0.00	-17.45017	-0.54227	29.58158	6.17366	38.98362	-3.869
Asta 80 (112-97)	110	minimi	191.50	-17.45017	-0.54227	11.06245	6.17366	77.90028	-2.83
Asta 80 (112-97)	110	minimi	383.00	-17.45017	-0.54227	-7.45667	6.17366	81.35282	-1.792
Asta 81 (102-117)	111	massimi	0.00	-25.39547	-2.91835	152.23189	11.28836	-212.49657	-4.142
Asta 81 (102-117)	111	massimi	173.00	-25.39547	-2.91835	95.81956	11.28836	-17.85936	0.94
Asta 81 (102-117)	111	massimi	346.00	-25.39547	-2.91835	39.40724	11.28836	97.26734	6.477
Asta 81 (102-117)	111	minimi	0.00	-27.43435	-3.20006	137.83277	10.02013	-234.26835	-4.596
Asta 81 (102-117)	111	minimi	173.00	-27.43435	-3.20006	87.18134	10.02013	-19.70384	0.906
Asta 81 (102-117)	111	minimi	346.00	-27.43435	-3.20006	36.52992	10.02013	89.15087	5.955
Asta 82 (112-107)	112	massimi	0.00	-12.91859	-3.76496	119.64161	-9.82983	-58.9642	-12.595
Asta 82 (112-107)	112	massimi	307.50	-12.91859	-3.76496	-10.66764	-9.82983	97.36007	-1.018
Asta 82 (112-107)	112	massimi	615.00	-12.91859	-3.76496	-124.95309	-9.82983	-124.57018	11.512
Asta 82 (112-107)	112	minimi	0.00	-14.6534	-4.10567	103.61781	-10.63235	-67.59179	-13.738
Asta 82 (112-107)	112	minimi	307.50	-14.6534	-4.10567	-12.35584	-10.63235	83.94669	-1.113
Asta 82 (112-107)	112	minimi	615.00	-14.6534	-4.10567	-144.35329	-10.63235	-143.58022	10.559
Asta 83 (122-107)	113	massimi	0.00	-21.29184	4.14165	-8.06579	-6.34742	-16.07895	1.01
Asta 83 (122-107)	113	massimi	127.00	-21.29184	4.14165	-60.99287	-6.34742	-59.9312	-3.903
Asta 83 (122-107)	113	massimi	254.00	-21.29184	4.14165	-113.91994	-6.34742	-171.00083	-8.682
Asta 83 (122-107)	113	minimi	0.00	-22.90077	3.7627	-8.66609	-7.07796	-17.84773	0.875
Asta 83 (122-107)	113	minimi	127.00	-22.90077	3.7627	-68.67976	-7.07796	-66.96235	-4.25
Asta 83 (122-107)	113	minimi	254.00	-22.90077	3.7627	-128.69344	-7.07796	-192.29433	-9.509
Asta 84 (142-112)	114	massimi	0.00	-22.72285	9.61308	86.2412	5.98977	-109.88466	14.078
Asta 84 (142-112)	114	massimi	165.00	-22.72285	9.61308	72.88799	5.98977	12.94227	-1.671

112)									
Asta 84 (142- 112)	114	massimi	330.00	-22.72285	9.61308	59.53478	5.98977	122.19105	-16.155
Asta 84 (142- 112)	114	minimi	0.00	-24.48962	8.77833	80.83083	5.23657	-118.33931	12.814
Asta 84 (142- 112)	114	minimi	165.00	-24.48962	8.77833	67.47762	5.23657	12.46981	-1.783
Asta 84 (142- 112)	114	minimi	330.00	-24.48962	8.77833	54.12441	5.23657	112.79148	-17.645
Asta 85 (117- 122)	115	massimi	0.00	-42.94396	-2.36951	93.59492	-4.3053	0.55682	-5.951
Asta 85 (117- 122)	115	massimi	330.00	-42.94396	-2.36951	-14.56382	-4.3053	127.6733	2.046
Asta 85 (117- 122)	115	massimi	660.00	-42.94396	-2.36951	-113.09413	-4.3053	-95.56436	10.642
Asta 85 (117- 122)	115	minimi	0.00	-46.83554	-2.60471	83.9665	-4.81035	-0.48308	-6.549
Asta 85 (117- 122)	115	minimi	330.00	-46.83554	-2.60471	-15.92439	-4.81035	115.07124	1.868
Asta 85 (117- 122)	115	minimi	660.00	-46.83554	-2.60471	-125.4437	-4.81035	-105.58405	9.687
Asta 86 (117- 127)	116	massimi	0.00	0.74436	3.49545	139.9778	19.00393	-60.62322	13.257
Asta 86 (117- 127)	116	massimi	330.00	0.74436	3.49545	3.65206	19.00393	169.67771	1.722
Asta 86 (117- 127)	116	massimi	660.00	0.74436	3.49545	-117.42387	19.00393	-38.78139	-8.962
Asta 86 (117- 127)	116	minimi	0.00	0.38447	3.19413	124.04261	17.00481	-67.31156	12.119
Asta 86 (117- 127)	116	minimi	330.00	0.38447	3.19413	3.30937	17.00481	149.50754	1.578
Asta 86 (117- 127)	116	minimi	660.00	0.38447	3.19413	-132.67368	17.00481	-43.20796	-9.813
Asta 87 (122- 137)	117	massimi	0.00	-9.69743	6.45834	72.50256	-8.61731	-22.46992	10.228
Asta 87 (122- 137)	117	massimi	165.00	-9.69743	6.45834	11.04831	-8.61731	43.61499	-0.395
Asta 87 (122- 137)	117	massimi	330.00	-9.69743	6.45834	-43.34888	-8.61731	11.14494	-10.139
Asta 87 (122- 137)	117	minimi	0.00	-10.85209	5.90581	63.37312	-9.63243	-25.31447	9.35
Asta 87 (122- 137)	117	minimi	165.00	-10.85209	5.90581	10.01212	-9.63243	38.0729	-0.428
Asta 87 (122- 137)	117	minimi	330.00	-10.85209	5.90581	-50.40594	-9.63243	10.57008	-11.084
Asta 88 (127- 132)	118	massimi	0.00	-9.95551	-2.06878	44.68699	-1.21148	-13.83034	-8.717
Asta 88	118	massimi	330.00	-9.95551	-2.06878	11.96474	-1.21148	79.645	-1.89

(127-132)									
Asta 88 (127-132)	118	massimi	660.00	-9.95551	-2.06878	-20.75751	-1.21148	65.13692	5.398
Asta 88 (127-132)	118	minimi	0.00	-10.704	-2.26363	43.72207	-1.23351	-14.08727	-9.542
Asta 88 (127-132)	118	minimi	330.00	-10.704	-2.26363	10.99982	-1.23351	76.20384	-2.072
Asta 88 (127-132)	118	minimi	660.00	-10.704	-2.26363	-21.72243	-1.23351	58.51153	4.937
Asta 89 (137-132)	119	massimi	0.00	-5.51164	3.45282	50.01113	10.48547	15.87723	1.507
Asta 89 (137-132)	119	massimi	165.00	-5.51164	3.45282	-13.794	10.48547	44.41296	-3.809
Asta 89 (137-132)	119	massimi	330.00	-5.51164	3.45282	-71.43126	10.48547	-31.02452	-9.071
Asta 89 (137-132)	119	minimi	0.00	-6.31387	3.18887	43.84325	9.82722	14.49569	1.452
Asta 89 (137-132)	119	minimi	165.00	-6.31387	3.18887	-15.42237	9.82722	39.28632	-4.19
Asta 89 (137-132)	119	minimi	330.00	-6.31387	3.18887	-80.85588	9.82722	-35.0166	-9.888
Asta 90 (132-157)	120	massimi	0.00	-6.12657	-1.74858	-20.2252	-0.12139	97.35262	-4.531
Asta 90 (132-157)	120	massimi	244.50	-6.12657	-1.74858	-37.75585	-0.12139	19.20392	-0.223
Asta 90 (132-157)	120	massimi	489.00	-6.12657	-1.74858	-55.2865	-0.12139	-95.78078	4.489
Asta 90 (132-157)	120	minimi	0.00	-6.56298	-1.92703	-22.97729	-0.45522	88.84535	-4.935
Asta 90 (132-157)	120	minimi	244.50	-6.56298	-1.92703	-40.94804	-0.45522	17.9635	-0.256
Asta 90 (132-157)	120	minimi	489.00	-6.56298	-1.92703	-58.91879	-0.45522	-102.88327	4.02
Asta 91 (137-152)	121	massimi	0.00	-2.48845	-2.99607	55.76723	-3.04147	-21.18742	-11.11
Asta 91 (137-152)	121	massimi	244.50	-2.48845	-2.99607	-0.71968	-3.04147	43.96105	-3.784
Asta 91 (137-152)	121	massimi	489.00	-2.48845	-2.99607	-52.21607	-3.04147	-24.70663	3.812
Asta 91 (137-152)	121	minimi	0.00	-2.74648	-3.24444	50.77672	-3.18853	-22.71019	-12.054
Asta 91 (137-152)	121	minimi	244.50	-2.74648	-3.24444	-1.23042	-3.18853	40.00732	-4.121
Asta 91 (137-152)	121	minimi	489.00	-2.74648	-3.24444	-58.22807	-3.18853	-28.72696	3.541
Asta 92 (142-147)	122	massimi	0.00	-3.32156	-1.50313	6.62832	-3.94864	-18.75487	-5.786

Asta 92 (142-147)	122	massimi	165.00	-3.32156	-1.50313	-5.33525	-3.94864	-17.79788	-3.305
Asta 92 (142-147)	122	massimi	330.00	-3.32156	-1.50313	-17.16575	-3.94864	-36.36121	-0.75
Asta 92 (142-147)	122	minimi	0.00	-3.79975	-1.71261	6.49525	-4.59904	-20.58904	-6.402
Asta 92 (142-147)	122	minimi	165.00	-3.79975	-1.71261	-5.49918	-4.59904	-19.65751	-3.576
Asta 92 (142-147)	122	minimi	330.00	-3.79975	-1.71261	-17.62669	-4.59904	-38.73635	-0.825
Asta 93 (152-142)	123	massimi	0.00	5.54986	-1.05245	28.59509	-11.13467	8.91591	3.602
Asta 93 (152-142)	123	massimi	190.00	5.54986	-1.05245	-14.91786	-11.13467	20.42514	5.797
Asta 93 (152-142)	123	massimi	380.00	5.54986	-1.05245	-54.82211	-11.13467	-47.77195	7.991
Asta 93 (152-142)	123	minimi	0.00	5.10171	-1.15488	24.98639	-11.92458	8.06476	3.339
Asta 93 (152-142)	123	minimi	190.00	5.10171	-1.15488	-15.58416	-11.92458	18.48102	5.339
Asta 93 (152-142)	123	minimi	380.00	5.10171	-1.15488	-59.76341	-11.92458	-51.15505	7.339
Asta 94 (157-147)	124	massimi	0.00	0.94754	1.16076	32.45985	-9.32556	-69.27259	4.898
Asta 94 (157-147)	124	massimi	190.00	0.94754	1.16076	18.49485	-9.32556	-23.83653	2.692
Asta 94 (157-147)	124	massimi	380.00	0.94754	1.16076	4.52985	-9.32556	-4.15794	0.603
Asta 94 (157-147)	124	minimi	0.00	0.84313	0.99565	30.72522	-9.74585	-74.43838	4.387
Asta 94 (157-147)	124	minimi	190.00	0.84313	0.99565	17.10222	-9.74585	-26.03141	2.495
Asta 94 (157-147)	124	minimi	380.00	0.84313	0.99565	3.47922	-9.74585	-4.28416	0.487
Asta 95 (2-1)	125	massimi	0.00	-379.091	30.85406	12.05333	0.55944	-15.78693	56.548
Asta 95 (2-1)	125	massimi	130.00	-384.941	30.85406	12.05333	0.55944	-1.12315	16.438
Asta 95 (2-1)	125	massimi	260.00	-390.791	30.85406	12.05333	0.55944	14.54619	-21.046
Asta 95 (2-1)	125	minimi	0.00	-401.02452	26.00082	11.273	0.43291	-16.79248	46.556
Asta 95 (2-1)	125	minimi	130.00	-406.87452	26.00082	11.273	0.43291	-1.13203	12.755
Asta 95 (2-1)	125	minimi	260.00	-412.72452	26.00082	11.273	0.43291	13.52287	-23.673
Asta 96 (7-6)	126	massimi	0.00	-403.08026	-28.62155	20.51484	1.44556	-26.64633	-47.261
Asta 96 (7-6)	126	massimi	130.00	-408.93026	-28.62155	20.51484	1.44556	-1.88345	-10.053
Asta 96 (7-6)	126	massimi	260.00	-414.78026	-28.62155	20.51484	1.44556	24.70736	30.639
Asta 96 (7-6)	126	minimi	0.00	-427.40781	-33.88246	19.04837	1.33092	-28.63124	-57.455

Asta 96 (7-6)	126	minimi	130.00	-433.25781	-33.88246	19.04837	1.33092	-1.96194	-13.408
Asta 96 (7-6)	126	minimi	260.00	-439.10781	-33.88246	19.04837	1.33092	22.87944	27.155
Asta 97 (12-11)	127	massimi	0.00	-497.94393	51.1415	5.58841	1.19066	-7.27646	104.997
Asta 97 (12-11)	127	massimi	130.00	-503.79393	51.1415	5.58841	1.19066	-0.7649	38.513
Asta 97 (12-11)	127	massimi	260.00	-509.64393	51.1415	5.58841	1.19066	6.4022	-24.085
Asta 97 (12-11)	127	minimi	0.00	-533.21512	41.81413	5.00889	1.03383	-8.12767	84.632
Asta 97 (12-11)	127	minimi	130.00	-539.06512	41.81413	5.00889	1.03383	-0.86273	30.273
Asta 97 (12-11)	127	minimi	260.00	-544.91512	41.81413	5.00889	1.03383	5.74665	-27.97
Asta 98 (17-16)	128	massimi	0.00	-647.66863	-25.11443	18.68341	2.17187	-24.2749	-36.544
Asta 98 (17-16)	128	massimi	130.00	-653.51863	-25.11443	18.68341	2.17187	-2.31662	-3.895
Asta 98 (17-16)	128	massimi	260.00	-659.36863	-25.11443	18.68341	2.17187	21.70493	34.517
Asta 98 (17-16)	128	minimi	0.00	-698.81374	-32.36385	16.89098	1.99029	-26.87192	-49.629
Asta 98 (17-16)	128	minimi	130.00	-704.66374	-32.36385	16.89098	1.99029	-2.5835	-7.556
Asta 98 (17-16)	128	minimi	260.00	-710.51374	-32.36385	16.89098	1.99029	19.64166	28.753
Asta 99 (22-21)	129	massimi	0.00	-199.4281	-11.68706	24.76809	0.60621	-35.30986	-18.394
Asta 99 (22-21)	129	massimi	130.00	-202.3531	-11.68706	24.76809	0.60621	-5.59048	-3.201
Asta 99 (22-21)	129	massimi	260.00	-205.2781	-11.68706	24.76809	0.60621	26.11054	13.103
Asta 99 (22-21)	129	minimi	0.00	-213.72714	-12.87919	22.86106	0.55805	-38.28648	-20.383
Asta 99 (22-21)	129	minimi	130.00	-216.65214	-12.87919	22.86106	0.55805	-6.08797	-3.64
Asta 99 (22-21)	129	minimi	260.00	-219.57714	-12.87919	22.86106	0.55805	24.1289	11.992
Asta 100 (27-26)	130	massimi	0.00	-511.23785	46.97304	-0.3978	0.62872	0.42321	100.937
Asta 100 (27-26)	130	massimi	130.00	-517.08785	46.97304	-0.3978	0.62872	-0.13751	39.872
Asta 100 (27-26)	130	massimi	260.00	-522.93785	46.97304	-0.3978	0.62872	-0.65465	-18.045
Asta 100 (27-26)	130	minimi	0.00	-548.18847	38.10936	-0.44054	0.575	0.37963	81.039
Asta 100 (27-26)	130	minimi	130.00	-554.03847	38.10936	-0.44054	0.575	-0.14949	31.497
Asta 100 (27-26)	130	minimi	260.00	-559.88847	38.10936	-0.44054	0.575	-0.7222	-21.193
Asta 101 (32-31)	131	massimi	0.00	-739.70068	-12.88604	7.07252	1.39345	-9.17433	-7.217
Asta 101 (32-31)	131	massimi	130.00	-745.55068	-12.88604	7.07252	1.39345	-0.85751	9.535
Asta 101 (32-31)	131	massimi	260.00	-751.40068	-12.88604	7.07252	1.39345	8.23238	31.666
Asta 101 (32-31)	131	minimi	0.00	-804.59552	-18.04095	6.39755	1.28069	-10.15618	-15.241
Asta 101 (32-31)	131	minimi	130.00	-810.44552	-18.04095	6.39755	1.28069	-0.9619	8.212
Asta 101 (32-31)	131	minimi	260.00	-816.29552	-18.04095	6.39755	1.28069	7.45931	26.287
Asta 102 (37-36)	132	massimi	0.00	-260.61989	-15.97876	24.63158	0.35958	-33.04548	-27.616
Asta 102 (37-36)	132	massimi	130.00	-263.54489	-15.97876	24.63158	0.35958	-3.48392	-6.844
Asta 102 (37-36)	132	massimi	260.00	-266.46989	-15.97876	24.63158	0.35958	28.23987	15.726

Asta 102 (37-36)	132	minimi	0.00	-281.6015	-18.4453	22.73966	0.32959	-35.80224	-32.232
Asta 102 (37-36)	132	minimi	130.00	-284.5265	-18.4453	22.73966	0.32959	-3.78118	-8.253
Asta 102 (37-36)	132	minimi	260.00	-287.4515	-18.4453	22.73966	0.32959	26.07764	13.928
Asta 103 (42-41)	133	massimi	0.00	-510.94672	47.65145	-0.75329	-0.49884	0.92323	102.787
Asta 103 (42-41)	133	massimi	130.00	-516.79672	47.65145	-0.75329	-0.49884	-0.17261	40.84
Asta 103 (42-41)	133	massimi	260.00	-522.64672	47.65145	-0.75329	-0.49884	-1.15188	-17.988
Asta 103 (42-41)	133	minimi	0.00	-547.85822	38.75607	-0.85783	-0.53379	0.80666	82.778
Asta 103 (42-41)	133	minimi	130.00	-553.70822	38.75607	-0.85783	-0.53379	-0.19195	32.395
Asta 103 (42-41)	133	minimi	260.00	-559.55821	38.75607	-0.85783	-0.53379	-1.30713	-21.107
Asta 104 (47-46)	134	massimi	0.00	-752.82825	-6.4075	2.20165	0.69791	-3.2562	4.103
Asta 104 (47-46)	134	massimi	130.00	-758.67825	-6.4075	2.20165	0.69791	-0.45474	12.433
Asta 104 (47-46)	134	massimi	260.00	-764.52825	-6.4075	2.20165	0.69791	2.36424	25.764
Asta 104 (47-46)	134	minimi	0.00	-819.51364	-11.0451	2.15497	0.656	-3.36006	-2.953
Asta 104 (47-46)	134	minimi	130.00	-825.36364	-11.0451	2.15497	0.656	-0.49791	11.406
Asta 104 (47-46)	134	minimi	260.00	-831.21364	-11.0451	2.15497	0.656	2.34671	20.763
Asta 105 (52-51)	135	massimi	0.00	-298.00496	-18.50672	10.41571	-0.14789	-15.69246	-27.472
Asta 105 (52-51)	135	massimi	130.00	-300.92996	-18.50672	10.41571	-0.14789	-2.80171	-3.413
Asta 105 (52-51)	135	massimi	260.00	-303.85496	-18.50672	10.41571	-0.14789	10.55019	23.072
Asta 105 (52-51)	135	minimi	0.00	-321.98852	-21.30456	9.91596	-0.14884	-16.53066	-32.32
Asta 105 (52-51)	135	minimi	130.00	-324.91352	-21.30456	9.91596	-0.14884	-2.99024	-4.624
Asta 105 (52-51)	135	minimi	260.00	-327.83852	-21.30456	9.91596	-0.14884	10.08904	20.646
Asta 106 (57-56)	136	massimi	0.00	-73.69517	-8.35367	0.07284	-0.23627	-1.33608	-2.651
Asta 106 (57-56)	136	massimi	130.00	-75.72642	-8.35367	0.07284	-0.23627	-1.2421	8.804
Asta 106 (57-56)	136	massimi	260.00	-77.75767	-8.35367	0.07284	-0.23627	-1.14812	20.463
Asta 106 (57-56)	136	minimi	0.00	-78.42112	-8.96818	0.07229	-0.25129	-1.41461	-2.855
Asta 106 (57-56)	136	minimi	130.00	-80.45237	-8.96818	0.07229	-0.25129	-1.31993	8.209
Asta 106 (57-56)	136	minimi	260.00	-82.48362	-8.96818	0.07229	-0.25129	-1.22524	19.068
Asta 107 (62-61)	137	massimi	0.00	-30.48005	-4.14494	0.31957	-0.07424	-0.89649	-4.405
Asta 107 (62-61)	137	massimi	130.00	-32.5113	-4.14494	0.31957	-0.07424	-0.50594	1.082
Asta 107 (62-61)	137	massimi	260.00	-34.54255	-4.14494	0.31957	-0.07424	-0.11499	6.851
Asta 107 (62-61)	137	minimi	0.00	-32.32681	-4.43733	0.30042	-0.07921	-0.94587	-4.686
Asta 107 (62-61)	137	minimi	130.00	-34.35806	-4.43733	0.30042	-0.07921	-0.53043	0.983
Asta 107 (62-61)	137	minimi	260.00	-36.38931	-4.43733	0.30042	-0.07921	-0.1154	6.371
Asta 108 (72-71)	138	massimi	0.00	-503.73503	53.71222	-3.30936	-1.07702	5.24205	111.775
Asta 108 (72-71)	138	massimi	130.00	-509.58503	53.71222	-3.30936	-1.07702	0.32872	41.949

Asta 108 (72-71)	138	massimi	260.00	-515.43503	53.71222	-3.30936	-1.07702	-4.03513	-24.156
Asta 108 (72-71)	138	minimi	0.00	-539.54177	44.37318	-3.77948	-1.23498	4.56921	91.215
Asta 108 (72-71)	138	minimi	130.00	-545.39177	44.37318	-3.77948	-1.23498	0.26704	33.53
Asta 108 (72-71)	138	minimi	260.00	-551.24177	44.37318	-3.77948	-1.23498	-4.58461	-27.877
Asta 109 (77-76)	139	massimi	0.00	-734.24212	-2.61012	-3.85609	0.13314	6.35594	6.811
Asta 109 (77-76)	139	massimi	130.00	-740.09212	-2.61012	-3.85609	0.13314	0.55236	10.205
Asta 109 (77-76)	139	massimi	260.00	-745.94212	-2.61012	-3.85609	0.13314	-4.52765	18.081
Asta 109 (77-76)	139	minimi	0.00	-798.74761	-6.95637	-4.4643	0.12703	5.49819	-0.005
Asta 109 (77-76)	139	minimi	130.00	-804.59761	-6.95637	-4.4643	0.12703	0.48527	9.038
Asta 109 (77-76)	139	minimi	260.00	-810.44761	-6.95637	-4.4643	0.12703	-5.25123	13.598
Asta 110 (82-81)	140	massimi	0.00	-294.87079	-26.64149	-3.08757	-0.04244	5.79319	-34.004
Asta 110 (82-81)	140	massimi	130.00	-297.79579	-26.64149	-3.08757	-0.04244	1.17307	0.63
Asta 110 (82-81)	140	massimi	260.00	-300.72079	-26.64149	-3.08757	-0.04244	-2.96543	38.937
Asta 110 (82-81)	140	minimi	0.00	-317.96123	-30.13693	-3.55394	-0.04348	5.06226	-39.419
Asta 110 (82-81)	140	minimi	130.00	-320.88623	-30.13693	-3.55394	-0.04348	1.04842	-0.241
Asta 110 (82-81)	140	minimi	260.00	-323.81123	-30.13693	-3.55394	-0.04348	-3.44705	35.264
Asta 111 (87-86)	141	massimi	0.00	-71.46813	-7.8484	1.22914	-0.20623	1.44543	-2.226
Asta 111 (87-86)	141	massimi	130.00	-73.49938	-7.8484	1.22914	-0.20623	3.04332	8.553
Asta 111 (87-86)	141	massimi	260.00	-75.53063	-7.8484	1.22914	-0.20623	4.6412	19.504
Asta 111 (87-86)	141	minimi	0.00	-76.04675	-8.42367	1.1499	-0.22029	1.35884	-2.398
Asta 111 (87-86)	141	minimi	130.00	-78.078	-8.42367	1.1499	-0.22029	2.85371	7.977
Asta 111 (87-86)	141	minimi	260.00	-80.10925	-8.42367	1.1499	-0.22029	4.34857	18.18
Asta 112 (92-91)	142	massimi	0.00	-29.06735	-4.15156	0.16825	-0.0709	1.01537	-4.377
Asta 112 (92-91)	142	massimi	130.00	-31.0986	-4.15156	0.16825	-0.0709	1.2341	1.122
Asta 112 (92-91)	142	massimi	260.00	-33.12985	-4.15156	0.16825	-0.0709	1.45283	6.895
Asta 112 (92-91)	142	minimi	0.00	-30.75622	-4.441	0.15619	-0.07496	0.95968	-4.652
Asta 112 (92-91)	142	minimi	130.00	-32.78747	-4.441	0.15619	-0.07496	1.16273	1.02
Asta 112 (92-91)	142	minimi	260.00	-34.81872	-4.441	0.15619	-0.07496	1.36578	6.417
Asta 113 (102-101)	143	massimi	0.00	-437.02973	72.78235	-7.3596	1.41526	8.92202	136.834
Asta 113 (102-101)	143	massimi	130.00	-442.87973	72.78235	-7.3596	1.41526	-0.88538	42.217
Asta 113 (102-101)	143	massimi	260.00	-448.72973	72.78235	-7.3596	1.41526	-10.45286	-47.837
Asta 113 (102-101)	143	minimi	0.00	-464.04535	66.15882	-7.76193	1.3782	8.68211	124.176
Asta 113 (102-101)	143	minimi	130.00	-469.89535	66.15882	-7.76193	1.3782	-1.1685	38.17

101)									
Asta 113 (102- 101)	143	minimi	260.00	-475.74535	66.15882	-7.76193	1.3782	-11.25901	-52.40
Asta 114 (107- 106)	144	massimi	0.00	-615.41675	-14.58156	-10.86275	-0.90106	15.9099	-14.786
Asta 114 (107- 106)	144	massimi	130.00	-621.26675	-14.58156	-10.86275	-0.90106	0.87732	5.665
Asta 114 (107- 106)	144	massimi	260.00	-627.11675	-14.58156	-10.86275	-0.90106	-13.24426	26.116
Asta 114 (107- 106)	144	minimi	0.00	-666.66185	-15.73156	-11.63319	-1.01962	14.9989	-14.795
Asta 114 (107- 106)	144	minimi	130.00	-672.51185	-15.73156	-11.63319	-1.01962	0.78676	4.161
Asta 114 (107- 106)	144	minimi	260.00	-678.36185	-15.73156	-11.63319	-1.01962	-14.33639	23.117
Asta 115 (112- 111)	145	massimi	0.00	-168.06246	-21.05279	-24.4608	-1.07928	39.98589	-33.184
Asta 115 (112- 111)	145	massimi	130.00	-170.98746	-21.05279	-24.4608	-1.07928	5.68054	-5.815
Asta 115 (112- 111)	145	massimi	260.00	-173.91246	-21.05279	-24.4608	-1.07928	-26.51616	23.773
Asta 115 (112- 111)	145	minimi	0.00	-181.38592	-23.71011	-26.38873	-1.19474	37.08193	-37.873
Asta 115 (112- 111)	145	minimi	130.00	-184.31092	-23.71011	-26.38873	-1.19474	5.28288	-7.05
Asta 115 (112- 111)	145	minimi	260.00	-187.23592	-23.71011	-26.38873	-1.19474	-28.6248	21.553
Asta 116 (117- 116)	146	massimi	0.00	-252.86391	38.02718	16.05626	-0.03519	-24.60854	54.934
Asta 116 (117- 116)	146	massimi	130.00	-255.78891	38.02718	16.05626	-0.03519	-5.75175	5.499
Asta 116 (117- 116)	146	massimi	260.00	-258.71391	38.02718	16.05626	-0.03519	14.17753	-40.112
Asta 116 (117- 116)	146	minimi	0.00	-275.01651	34.6075	14.50522	-0.04011	-27.56873	49.868
Asta 116 (117- 116)	146	minimi	130.00	-277.94151	34.6075	14.50522	-0.04011	-6.6956	4.878
Asta 116 (117- 116)	146	minimi	260.00	-280.86652	34.6075	14.50522	-0.04011	13.10503	-43.936
Asta 117 (122- 121)	147	massimi	0.00	-229.7588	-31.81587	9.57232	-1.68898	-13.06383	-45.414
Asta 117 (122- 121)	147	massimi	130.00	-232.6838	-31.81587	9.57232	-1.68898	-2.0212	-4.053
Asta 117 (122- 121)	147	massimi	260.00	-235.6088	-31.81587	9.57232	-1.68898	10.06594	40.92
Asta 117 (122- 121)	147	minimi	0.00	-250.05997	-35.03588	8.49433	-1.85427	-14.82209	-50.173
Asta 117	147	minimi	130.00	-252.98497	-35.03588	8.49433	-1.85427	-2.37807	-4.627

(122-121)									
Asta 117 (122-121)	147	minimi	260.00	-255.90997	-35.03588	8.49433	-1.85427	9.02143	37.307
Asta 118 (127-126)	148	massimi	0.00	-241.9295	14.59644	-11.97729	-0.93322	23.02722	21.084
Asta 118 (127-126)	148	massimi	130.00	-244.8545	14.59644	-11.97729	-0.93322	5.7501	2.109
Asta 118 (127-126)	148	massimi	260.00	-247.7795	14.59644	-11.97729	-0.93322	-10.7169	-15.879
Asta 118 (127-126)	148	minimi	0.00	-262.48546	13.77717	-13.29009	-1.02118	20.42404	19.941
Asta 118 (127-126)	148	minimi	130.00	-265.41046	13.77717	-13.29009	-1.02118	4.85357	2.031
Asta 118 (127-126)	148	minimi	260.00	-268.33546	13.77717	-13.29009	-1.02118	-11.52702	-16.866
Asta 119 (132-131)	149	massimi	0.00	-165.14465	-9.43743	-12.31334	0.3597	22.08492	-15.508
Asta 119 (132-131)	149	massimi	130.00	-168.06965	-9.43743	-12.31334	0.3597	4.12126	-3.239
Asta 119 (132-131)	149	massimi	260.00	-170.99465	-9.43743	-12.31334	0.3597	-12.38337	9.642
Asta 119 (132-131)	149	minimi	0.00	-178.77747	-10.06277	-13.8182	0.32598	19.63131	-16.521
Asta 119 (132-131)	149	minimi	130.00	-181.70247	-10.06277	-13.8182	0.32598	3.62397	-3.439
Asta 119 (132-131)	149	minimi	260.00	-184.62747	-10.06277	-13.8182	0.32598	-13.8424	9.03
Asta 120 (137-136)	150	massimi	0.00	-234.14568	1.30486	-3.01604	-1.41796	4.76641	1.37
Asta 120 (137-136)	150	massimi	130.00	-237.07068	1.30486	-3.01604	-1.41796	0.35728	-0.326
Asta 120 (137-136)	150	massimi	260.00	-239.99569	1.30486	-3.01604	-1.41796	-3.61538	-1.956
Asta 120 (137-136)	150	minimi	0.00	-255.57675	1.25063	-3.39164	-1.55788	4.22633	1.296
Asta 120 (137-136)	150	minimi	130.00	-258.50175	1.25063	-3.39164	-1.55788	0.30548	-0.33
Asta 120 (137-136)	150	minimi	260.00	-261.42675	1.25063	-3.39164	-1.55788	-4.05186	-2.023
Asta 121 (142-141)	151	massimi	0.00	-220.68653	-14.30373	-43.84362	-1.93902	58.77484	-23.125
Asta 121 (142-141)	151	massimi	130.00	-223.61153	-14.30373	-43.84362	-1.93902	-2.20048	-4.53
Asta 121 (142-141)	151	massimi	260.00	-226.53653	-14.30373	-43.84362	-1.93902	-59.19718	15.346
Asta 121 (142-141)	151	minimi	0.00	-235.3796	-15.64177	-46.96046	-2.12114	54.79623	-25.323

Asta 121 (142-141)	151	minimi	130.00	-238.3046	-15.64177	-46.96046	-2.12114	-2.27375	-4.989
Asta 121 (142-141)	151	minimi	260.00	-241.2296	-15.64177	-46.96046	-2.12114	-63.32235	14.065
Asta 122 (147-146)	152	massimi	0.00	-46.17326	-0.95838	-9.76303	-0.3953	16.02452	-3.142
Asta 122 (147-146)	152	massimi	130.00	-48.20451	-0.95838	-9.76303	-0.3953	2.30032	-1.896
Asta 122 (147-146)	152	massimi	260.00	-50.23576	-0.95838	-9.76303	-0.3953	-10.5136	-0.643
Asta 122 (147-146)	152	minimi	0.00	-47.06031	-1.04699	-10.55708	-0.43727	14.87027	-3.365
Asta 122 (147-146)	152	minimi	130.00	-49.09156	-1.04699	-10.55708	-0.43727	2.17833	-2.004
Asta 122 (147-146)	152	minimi	260.00	-51.12281	-1.04699	-10.55708	-0.43727	-11.42389	-0.65
Asta 123 (152-151)	153	massimi	0.00	-161.31834	-15.19094	-3.39438	1.16426	6.47355	-21.76
Asta 123 (152-151)	153	massimi	130.00	-164.24334	-15.19094	-3.39438	1.16426	1.72343	-2.011
Asta 123 (152-151)	153	massimi	260.00	-167.16834	-15.19094	-3.39438	1.16426	-2.83334	19.365
Asta 123 (152-151)	153	minimi	0.00	-174.9925	-16.60512	-3.65394	1.08252	5.99204	-23.808
Asta 123 (152-151)	153	minimi	130.00	-177.9175	-16.60512	-3.65394	1.08252	1.57935	-2.221
Asta 123 (152-151)	153	minimi	260.00	-180.8425	-16.60512	-3.65394	1.08252	-3.0267	17.737
Asta 124 (157-156)	154	massimi	0.00	-172.28694	-13.79366	-3.52293	0.11012	6.34632	-16.259
Asta 124 (157-156)	154	massimi	130.00	-174.31819	-13.79366	-3.52293	0.11012	1.37326	1.756
Asta 124 (157-156)	154	massimi	260.00	-176.34944	-13.79366	-3.52293	0.11012	-3.31887	20.867
Asta 124 (157-156)	154	minimi	0.00	-184.72727	-14.70083	-3.82543	0.10972	5.84074	-17.355
Asta 124 (157-156)	154	minimi	130.00	-186.75852	-14.70083	-3.82543	0.10972	1.26094	1.673
Asta 124 (157-156)	154	minimi	260.00	-188.78977	-14.70083	-3.82543	0.10972	-3.5998	19.604
Asta 125 (222-221)	155	massimi	0.00	-138.32109	-2.01193	0.85348	-0.00547	-1.64458	-3.126
Asta 125 (222-221)	155	massimi	130.00	-141.24609	-2.01193	0.85348	-0.00547	-0.62068	-0.51
Asta 125 (222-221)	155	massimi	260.00	-144.17109	-2.01193	0.85348	-0.00547	0.45646	2.415
Asta 125 (222-221)	155	minimi	0.00	-155.20508	-2.30756	0.78761	-0.01786	-1.7626	-3.585

221)									
Asta 125 (222- 221)	155	minimi	130.00	-158.13008	-2.30756	0.78761	-0.01786	-0.65307	-0.585
Asta 125 (222- 221)	155	minimi	260.00	-161.05508	-2.30756	0.78761	-0.01786	0.40322	2.105
Asta 126 (227- 226)	156	massimi	0.00	-234.84364	-2.455	0.61343	-0.09325	-1.2506	-4.209
Asta 126 (227- 226)	156	massimi	130.00	-237.76864	-2.455	0.61343	-0.09325	-0.54181	-1.018
Asta 126 (227- 226)	156	massimi	260.00	-240.69364	-2.455	0.61343	-0.09325	0.19061	2.688
Asta 126 (227- 226)	156	minimi	0.00	-267.6834	-3.0184	0.54523	-0.11244	-1.4043	-5.16
Asta 126 (227- 226)	156	minimi	130.00	-270.6084	-3.0184	0.54523	-0.11244	-0.60684	-1.236
Asta 126 (227- 226)	156	minimi	260.00	-273.5334	-3.0184	0.54523	-0.11244	0.16698	2.174
Asta 127 (232- 231)	157	massimi	0.00	-239.69469	-3.48204	0.11788	-0.00524	-0.29383	-6.039
Asta 127 (232- 231)	157	massimi	130.00	-242.61969	-3.48204	0.11788	-0.00524	-0.15593	-1.512
Asta 127 (232- 231)	157	massimi	260.00	-245.54469	-3.48204	0.11788	-0.00524	-0.01803	3.535
Asta 127 (232- 231)	157	minimi	0.00	-273.14238	-4.09451	0.10608	-0.01176	-0.32928	-7.11
Asta 127 (232- 231)	157	minimi	130.00	-276.06738	-4.09451	0.10608	-0.01176	-0.17604	-1.787
Asta 127 (232- 231)	157	minimi	260.00	-278.99238	-4.09451	0.10608	-0.01176	-0.0228	3.015
Asta 128 (237- 236)	158	massimi	0.00	-240.21197	-3.01517	-0.10255	0.12783	0.09159	-5.382
Asta 128 (237- 236)	158	massimi	130.00	-243.13697	-3.01517	-0.10255	0.12783	-0.05126	-1.462
Asta 128 (237- 236)	158	massimi	260.00	-246.06197	-3.01517	-0.10255	0.12783	-0.18458	2.925
Asta 128 (237- 236)	158	minimi	0.00	-273.74574	-3.58276	-0.11448	0.12228	0.08205	-6.39
Asta 128 (237- 236)	158	minimi	130.00	-276.67074	-3.58276	-0.11448	0.12228	-0.05723	-1.733
Asta 128 (237- 236)	158	minimi	260.00	-279.59574	-3.58276	-0.11448	0.12228	-0.20605	2.457
Asta 129 (242- 241)	159	massimi	0.00	-239.04033	0.14883	-0.38728	0.22587	0.80093	-0.512
Asta 129 (242- 241)	159	massimi	130.00	-241.96533	0.14883	-0.38728	0.22587	0.22703	-0.706
Asta 129 (242- 241)	159	massimi	260.00	-244.89033	0.14883	-0.38728	0.22587	-0.30333	-0.741
Asta 129	159	minimi	0.00	-272.36915	-0.12569	-0.44146	0.20748	0.70359	-1.067

(242-241)									
Asta 129 (242-241)	159	minimi	130.00	-275.29415	-0.12569	-0.44146	0.20748	0.20013	-0.904
Asta 129 (242-241)	159	minimi	260.00	-278.21915	-0.12569	-0.44146	0.20748	-0.34687	-0.899
Asta 130 (68-53)	160	massimi	0.00	13.81724	4.88713	-7.87138	5.7579	19.76065	7.163
Asta 130 (68-53)	160	massimi	116.50	13.81724	4.88713	-22.50995	5.7579	1.59795	1.47
Asta 130 (68-53)	160	massimi	233.00	13.81724	4.88713	-37.14851	5.7579	-33.1531	-3.921
Asta 130 (68-53)	160	minimi	0.00	13.0687	4.53705	-8.56973	5.29459	19.29508	6.651
Asta 130 (68-53)	160	minimi	116.50	13.0687	4.53705	-23.20829	5.29459	1.24995	1.365
Asta 130 (68-53)	160	minimi	233.00	13.0687	4.53705	-37.84686	5.29459	-34.31467	-4.224
Asta 131 (63-58)	161	massimi	0.00	-3.79538	0.23105	25.08733	0.49865	-12.20459	0.689
Asta 131 (63-58)	161	massimi	204.50	-3.79538	0.23105	-2.7762	0.00278	9.35069	0.216
Asta 131 (63-58)	161	massimi	409.00	-3.79538	0.23105	-27.84293	-0.22251	-22.72456	-0.237
Asta 131 (63-58)	161	minimi	0.00	-4.06375	0.21545	23.515	0.44316	-13.03673	0.644
Asta 131 (63-58)	161	minimi	204.50	-4.06375	0.21545	-2.96213	0.00151	8.79216	0.204
Asta 131 (63-58)	161	minimi	409.00	-4.06375	0.21545	-29.62914	-0.25281	-24.20948	-0.256
Asta 132 (58-68)	162	massimi	0.00	-10.96657	0.97786	41.16231	0.74648	-41.27518	2.125
Asta 132 (58-68)	162	massimi	205.50	-10.96657	0.97786	12.99974	0.2654	11.33455	0.115
Asta 132 (58-68)	162	massimi	411.00	-10.96657	0.97786	-13.31904	-0.00411	10.03113	-1.792
Asta 132 (58-68)	162	minimi	0.00	-11.76956	0.92166	38.52708	0.67526	-44.13312	1.996
Asta 132 (58-68)	162	minimi	205.50	-11.76956	0.92166	12.12863	0.24912	10.61073	0.102
Asta 132 (58-68)	162	minimi	411.00	-11.76956	0.92166	-14.08936	-0.02046	9.22476	-1.894
Asta 133 (88-58)	163	massimi	0.00	0.67398	-1.18248	3.19282	-0.1946	-0.06191	-1.929
Asta 133 (88-58)	163	massimi	166.00	0.67398	-1.18248	-0.69417	-0.1946	1.96591	0.034
Asta 133 (88-58)	163	massimi	332.00	0.67398	-1.18248	-4.38767	-0.1946	-2.36976	2.13
Asta 133 (88-58)	163	minimi	0.00	0.63391	-1.26238	2.99933	-0.20876	-0.06512	-2.062
Asta 133 (88-58)	163	minimi	166.00	0.63391	-1.26238	-0.74968	-0.20876	1.84817	0.034
Asta 133 (88-58)	163	minimi	332.00	0.63391	-1.26238	-4.69218	-0.20876	-2.55083	1.997
Asta 134 (93-63)	164	massimi	0.00	-0.08497	-0.34956	3.58302	-0.0067	-0.79536	-0.59
Asta 134 (93-63)	164	massimi	166.00	-0.08497	-0.34956	-0.33406	-0.0067	1.82372	-0.01
Asta 134 (93-63)	164	massimi	332.00	-0.08497	-0.34956	-4.02756	-0.0067	-1.90443	0.61
Asta 134 (93-63)	164	minimi	0.00	-0.08852	-0.37358	3.35944	-0.00846	-0.85182	-0.631
Asta 134 (93-63)	164	minimi	166.00	-0.08852	-0.37358	-0.35948	-0.00846	1.71571	-0.01
Asta 134 (93-63)	164	minimi	332.00	-0.08852	-0.37358	-4.30198	-0.00846	-2.0453	0.57
Asta 135 (83-68)	165	massimi	0.00	12.83938	-6.42952	25.33095	-3.93017	-17.43475	-7.052

Asta 135 (83-68)	165	massimi	120.50	12.83938	-6.42952	15.42529	-3.93017	7.12088	0.764
Asta 135 (83-68)	165	massimi	241.00	12.83938	-6.42952	5.51963	-3.93017	19.74019	9.058
Asta 135 (83-68)	165	minimi	0.00	12.14705	-6.88242	25.25897	-4.27323	-17.71052	-7.529
Asta 135 (83-68)	165	minimi	120.50	12.14705	-6.88242	15.35331	-4.27323	6.75839	0.695
Asta 135 (83-68)	165	minimi	241.00	12.14705	-6.88242	5.44765	-4.27323	19.29097	8.443
Asta 136 (98-83)	166	massimi	0.00	17.35374	12.02801	-29.12458	7.21657	10.12271	2.453
Asta 136 (98-83)	166	massimi	45.50	17.35374	12.02801	-34.77943	7.21657	-4.65367	-2.834
Asta 136 (98-83)	166	massimi	91.00	17.35374	12.02801	-40.43429	7.21657	-22.003	-7.95
Asta 136 (98-83)	166	minimi	0.00	16.43838	11.24514	-29.64812	6.64194	9.34449	2.283
Asta 136 (98-83)	166	minimi	45.50	16.43838	11.24514	-35.30298	6.64194	-5.19367	-3.02
Asta 136 (98-83)	166	minimi	91.00	16.43838	11.24514	-40.95784	6.64194	-22.30479	-8.493
Asta 137 (88-93)	167	massimi	0.00	-4.50112	0.25677	30.48077	0.59869	-22.40192	0.345
Asta 137 (88-93)	167	massimi	204.50	-4.50112	0.25677	2.4313	0.10155	9.53827	-0.168
Asta 137 (88-93)	167	massimi	409.00	-4.50112	0.25677	-22.77041	-0.12931	-12.17529	-0.661
Asta 137 (88-93)	167	minimi	0.00	-4.81458	0.24116	28.58752	0.53635	-23.87873	0.325
Asta 137 (88-93)	167	minimi	204.50	-4.81458	0.24116	2.29632	0.09598	8.96813	-0.18
Asta 137 (88-93)	167	minimi	409.00	-4.81458	0.24116	-24.2357	-0.15277	-12.99233	-0.706
Asta 138 (98-88)	168	massimi	0.00	-13.532	0.81194	15.81601	0.43837	8.10475	1.40
Asta 138 (98-88)	168	massimi	205.50	-13.532	0.81194	-11.49612	-0.04271	11.48578	-0.255
Asta 138 (98-88)	168	massimi	411.00	-13.532	0.81194	-36.94378	-0.32857	-39.18784	-1.811
Asta 138 (98-88)	168	minimi	0.00	-14.50062	0.75714	14.90233	0.34765	7.40994	1.301
Asta 138 (98-88)	168	minimi	205.50	-14.50062	0.75714	-12.34656	-0.0785	10.74699	-0.269
Asta 138 (98-88)	168	minimi	411.00	-14.50062	0.75714	-39.43566	-0.33173	-41.90428	-1.937
Asta 139 (113-98)	169	massimi	0.00	16.5418	-2.28686	33.77057	-0.76799	-26.9958	-5.175
Asta 139 (113-98)	169	massimi	191.50	16.5418	-2.28686	9.96923	-0.76799	14.25979	-0.795
Asta 139 (113-98)	169	massimi	383.00	16.5418	-2.28686	-13.83211	-0.76799	10.56108	3.852
Asta 139 (113-98)	169	minimi	0.00	15.68124	-2.47262	33.38044	-0.88817	-27.62107	-5.618
Asta 139 (113-98)	169	minimi	191.50	15.68124	-2.47262	9.57909	-0.88817	14.13796	-0.883
Asta 139 (113-98)	169	minimi	383.00	15.68124	-2.47262	-14.22225	-0.88817	9.69214	3.584
Asta 140 (143-113)	170	massimi	0.00	6.04535	2.90561	23.90767	3.82204	-33.71445	2.952
Asta 140 (143-113)	170	massimi	165.00	6.04535	2.90561	18.33471	3.82204	-1.24931	-1.693
Asta 140 (143-113)	170	massimi	330.00	6.04535	2.90561	12.76174	3.82204	24.31705	-6.142
Asta 140 (143-113)	170	minimi	0.00	5.67645	2.696	22.46233	3.45981	-36.18749	2.755

Asta 140 (143-113)	170	minimi	165.00	5.67645	2.696	16.88936	3.45981	-1.33752	-1.842
Asta 140 (143-113)	170	minimi	330.00	5.67645	2.696	11.3164	3.45981	22.02044	-6.637
Asta 141 (3-2)	171	massimi	0.00	-258.31888	30.97406	10.61343	0.63036	-3.57023	2.842
Asta 141 (3-2)	171	massimi	94.00	-262.54888	30.97406	10.61343	0.63036	6.145	-23.252
Asta 141 (3-2)	171	massimi	188.00	-266.77888	30.97406	10.61343	0.63036	16.12162	-49.346
Asta 141 (3-2)	171	minimi	0.00	-265.95494	27.75975	9.99432	0.462	-3.83162	0.868
Asta 141 (3-2)	171	minimi	94.00	-270.18494	27.75975	9.99432	0.462	5.82443	-28.248
Asta 141 (3-2)	171	minimi	188.00	-274.41494	27.75975	9.99432	0.462	15.21909	-57.363
Asta 142 (8-7)	172	massimi	0.00	-271.33238	-32.0825	17.85969	1.44916	-6.59275	0.357
Asta 142 (8-7)	172	massimi	94.00	-275.56238	-32.0825	17.85969	1.44916	9.65925	34.107
Asta 142 (8-7)	172	massimi	188.00	-279.79238	-32.0825	17.85969	1.44916	26.44735	67.857
Asta 142 (8-7)	172	minimi	0.00	-280.23025	-35.90465	16.64024	1.39411	-7.12886	-1.679
Asta 142 (8-7)	172	minimi	94.00	-284.46025	-35.90465	16.64024	1.39411	9.04908	28.478
Asta 142 (8-7)	172	minimi	188.00	-288.69025	-35.90465	16.64024	1.39411	24.6909	58.636
Asta 143 (13-12)	173	massimi	0.00	-299.78125	40.04005	4.53424	1.54177	-1.30327	-24.061
Asta 143 (13-12)	173	massimi	94.00	-304.01125	40.04005	4.53424	1.54177	2.80515	-58.454
Asta 143 (13-12)	173	massimi	188.00	-308.24125	40.04005	4.53424	1.54177	7.06733	-92.846
Asta 143 (13-12)	173	minimi	0.00	-309.84485	36.58802	4.03645	1.29655	-1.45703	-30.175
Asta 143 (13-12)	173	minimi	94.00	-314.07485	36.58802	4.03645	1.29655	2.491	-67.812
Asta 143 (13-12)	173	minimi	188.00	-318.30485	36.58802	4.03645	1.29655	6.28526	-105.45
Asta 144 (18-17)	174	massimi	0.00	-339.71474	-21.11392	14.53966	2.81036	-4.21256	29.125
Asta 144 (18-17)	174	massimi	94.00	-343.94473	-21.11392	14.53966	2.81036	9.00672	51.05
Asta 144 (18-17)	174	massimi	188.00	-348.17473	-21.11392	14.53966	2.81036	22.674	72.976
Asta 144 (18-17)	174	minimi	0.00	-351.77331	-23.32505	13.1081	2.6021	-4.66055	25.026
Asta 144 (18-17)	174	minimi	94.00	-356.00331	-23.32505	13.1081	2.6021	8.10905	44.873
Asta 144 (18-17)	174	minimi	188.00	-360.23331	-23.32505	13.1081	2.6021	20.43066	64.72
Asta 145 (23-22)	175	massimi	0.00	-62.41302	-13.98311	14.28819	0.55961	-3.26796	-6.235
Asta 145 (23-22)	175	massimi	94.00	-63.88177	-13.98311	14.28819	0.55961	9.88477	7.435
Asta 145 (23-22)	175	massimi	188.00	-65.35052	-13.98311	14.28819	0.55961	23.31567	21.529
Asta 145 (23-22)	175	minimi	0.00	-66.42375	-14.99325	13.15032	0.51104	-3.54613	-6.658
Asta 145 (23-22)	175	minimi	94.00	-67.8925	-14.99325	13.15032	0.51104	9.09334	6.909
Asta 145 (23-22)	175	minimi	188.00	-69.36125	-14.99325	13.15032	0.51104	21.45465	20.053
Asta 146 (28-27)	176	massimi	0.00	-309.86796	36.86595	-0.88595	1.05212	0.18406	-20.322
Asta 146 (28-27)	176	massimi	94.00	-314.09796	36.86595	-0.88595	1.05212	-0.66878	-52.001

Asta 146 (28-27)	176	massimi	188.00	-318.32796	36.86595	-0.88595	1.05212	-1.50158	-83.681
Asta 146 (28-27)	176	minimi	0.00	-321.20443	33.70148	-0.9728	0.96568	0.16401	-26.135
Asta 146 (28-27)	176	minimi	94.00	-325.43443	33.70148	-0.9728	0.96568	-0.73037	-60.789
Asta 146 (28-27)	176	minimi	188.00	-329.66443	33.70148	-0.9728	0.96568	-1.6448	-95.443
Asta 147 (33-32)	177	massimi	0.00	-383.46211	-9.4303	4.28418	1.55438	-1.74963	31.857
Asta 147 (33-32)	177	massimi	94.00	-387.69211	-9.4303	4.28418	1.55438	2.09021	41.529
Asta 147 (33-32)	177	massimi	188.00	-391.92211	-9.4303	4.28418	1.55438	6.11734	51.201
Asta 147 (33-32)	177	minimi	0.00	-397.7782	-10.28939	3.84405	1.4098	-1.93692	28.41
Asta 147 (33-32)	177	minimi	94.00	-402.0082	-10.28939	3.84405	1.4098	1.86377	37.274
Asta 147 (33-32)	177	minimi	188.00	-406.2382	-10.28939	3.84405	1.4098	5.47718	46.139
Asta 148 (38-37)	178	massimi	0.00	-90.95901	-19.43721	12.909	0.3997	-3.15168	-7.939
Asta 148 (38-37)	178	massimi	94.00	-92.42776	-19.43721	12.909	0.3997	8.71827	11.619
Asta 148 (38-37)	178	massimi	188.00	-93.89651	-19.43721	12.909	0.3997	20.85273	31.583
Asta 148 (38-37)	178	minimi	0.00	-96.08377	-21.23903	11.89346	0.36601	-3.41619	-8.346
Asta 148 (38-37)	178	minimi	94.00	-97.55252	-21.23903	11.89346	0.36601	8.02817	10.332
Asta 148 (38-37)	178	minimi	188.00	-99.02127	-21.23903	11.89346	0.36601	19.20802	28.603
Asta 149 (43-42)	179	massimi	0.00	-309.73521	36.14326	-1.29936	-0.50156	0.32445	-19.217
Asta 149 (43-42)	179	massimi	94.00	-313.96521	36.14326	-1.29936	-0.50156	-0.93531	-50.273
Asta 149 (43-42)	179	massimi	188.00	-318.19521	36.14326	-1.29936	-0.50156	-2.15671	-81.329
Asta 149 (43-42)	179	minimi	0.00	-321.0543	33.03808	-1.44358	-0.53671	0.28609	-24.927
Asta 149 (43-42)	179	minimi	94.00	-325.2843	33.03808	-1.44358	-0.53671	-1.03252	-58.902
Asta 149 (43-42)	179	minimi	188.00	-329.5143	33.03808	-1.44358	-0.53671	-2.38949	-92.876
Asta 150 (48-47)	180	massimi	0.00	-389.46768	-5.78125	-0.14325	0.27484	-0.53114	32.605
Asta 150 (48-47)	180	massimi	94.00	-393.69768	-5.78125	-0.14325	0.27484	-0.6658	38.579
Asta 150 (48-47)	180	massimi	188.00	-397.92768	-5.78125	-0.14325	0.27484	-0.80045	44.553
Asta 150 (48-47)	180	minimi	0.00	-404.67776	-6.35495	-0.28194	0.25692	-0.54136	29.143
Asta 150 (48-47)	180	minimi	94.00	-408.90776	-6.35495	-0.28194	0.25692	-0.80639	34.578
Asta 150 (48-47)	180	minimi	188.00	-413.13776	-6.35495	-0.28194	0.25692	-1.07141	40.012
Asta 151 (53-52)	181	massimi	0.00	-130.78122	-18.49376	17.73852	-1.56481	-14.54383	-8.48
Asta 151 (53-52)	181	massimi	94.00	-132.24997	-18.49376	17.73852	-1.56481	1.66429	10.132
Asta 151 (53-52)	181	massimi	188.00	-133.71872	-18.49376	17.73852	-1.56481	18.3385	29.213
Asta 151 (53-52)	181	minimi	0.00	-137.28816	-20.29872	17.00494	-1.68663	-15.00992	-8.949
Asta 151 (53-52)	181	minimi	94.00	-138.75691	-20.29872	17.00494	-1.68663	1.44082	8.905
Asta 151 (53-52)	181	minimi	188.00	-140.22566	-20.29872	17.00494	-1.68663	17.42547	26.289
Asta 152 (58-57)	182	massimi	0.00	-70.75767	-8.35367	0.07284	-0.23627	-1.47199	-18.356

Asta 152 (58-57)	182	massimi	94.00	-72.22642	-8.35367	0.07284	-0.23627	-1.40404	-10.504
Asta 152 (58-57)	182	massimi	188.00	-73.69517	-8.35367	0.07284	-0.23627	-1.33608	-2.651
Asta 152 (58-57)	182	minimi	0.00	-75.48362	-8.96818	0.07229	-0.25129	-1.55154	-19.715
Asta 152 (58-57)	182	minimi	94.00	-76.95237	-8.96818	0.07229	-0.25129	-1.48308	-11.285
Asta 152 (58-57)	182	minimi	188.00	-78.42112	-8.96818	0.07229	-0.25129	-1.41461	-2.855
Asta 153 (63-62)	183	massimi	0.00	-27.54255	-4.14494	0.31957	-0.07424	-1.46128	-12.198
Asta 153 (63-62)	183	massimi	94.00	-29.0113	-4.14494	0.31957	-0.07424	-1.17888	-8.302
Asta 153 (63-62)	183	massimi	188.00	-30.48005	-4.14494	0.31957	-0.07424	-0.89649	-4.405
Asta 153 (63-62)	183	minimi	0.00	-29.38931	-4.43733	0.30042	-0.07921	-1.54665	-13.028
Asta 153 (63-62)	183	minimi	94.00	-30.85806	-4.43733	0.30042	-0.07921	-1.24626	-8.857
Asta 153 (63-62)	183	minimi	188.00	-32.32681	-4.43733	0.30042	-0.07921	-0.94587	-4.686
Asta 154 (73-72)	184	massimi	0.00	-304.16722	37.8671	-3.9509	-0.81016	1.20205	-19.247
Asta 154 (73-72)	184	massimi	94.00	-308.39722	37.8671	-3.9509	-0.81016	-2.64378	-51.694
Asta 154 (73-72)	184	massimi	188.00	-312.62722	37.8671	-3.9509	-0.81016	-6.35763	-84.14
Asta 154 (73-72)	184	minimi	0.00	-314.76394	34.51751	-4.46406	-1.00158	1.07006	-24.859
Asta 154 (73-72)	184	minimi	94.00	-318.99394	34.51751	-4.46406	-1.00158	-2.99417	-60.454
Asta 154 (73-72)	184	minimi	188.00	-323.22394	34.51751	-4.46406	-1.00158	-7.19039	-96.049
Asta 155 (78-77)	185	massimi	0.00	-378.04865	-1.90642	-6.00376	-0.7882	1.33656	35.258
Asta 155 (78-77)	185	massimi	94.00	-382.27865	-1.90642	-6.00376	-0.7882	-4.48419	37.419
Asta 155 (78-77)	185	massimi	188.00	-386.50865	-1.90642	-6.00376	-0.7882	-10.12772	39.58
Asta 155 (78-77)	185	minimi	0.00	-392.00315	-2.29898	-6.79269	-0.8265	1.15935	31.674
Asta 155 (78-77)	185	minimi	94.00	-396.23315	-2.29898	-6.79269	-0.8265	-5.04857	33.466
Asta 155 (78-77)	185	minimi	188.00	-400.46315	-2.29898	-6.79269	-0.8265	-11.4337	35.259
Asta 156 (83-82)	186	massimi	0.00	-152.66885	-15.0912	0.43253	-0.30244	-0.49939	-5.854
Asta 156 (83-82)	186	massimi	94.00	-154.1376	-15.0912	0.43253	-0.30244	-0.23115	9.511
Asta 156 (83-82)	186	massimi	188.00	-155.60635	-15.0912	0.43253	-0.30244	0.17542	25.226
Asta 156 (83-82)	186	minimi	0.00	-158.79425	-16.71786	0.26152	-0.31278	-0.63773	-6.204
Asta 156 (83-82)	186	minimi	94.00	-160.263	-16.71786	0.26152	-0.31278	-0.25356	8.332
Asta 156 (83-82)	186	minimi	188.00	-161.73175	-16.71786	0.26152	-0.31278	-0.00773	22.518
Asta 157 (88-87)	187	massimi	0.00	-68.53063	-7.8484	1.22914	-0.20623	-0.80296	-16.981
Asta 157 (88-87)	187	massimi	94.00	-69.99938	-7.8484	1.22914	-0.20623	0.29004	-9.603
Asta 157 (88-87)	187	massimi	188.00	-71.46813	-7.8484	1.22914	-0.20623	1.44543	-2.226
Asta 157 (88-87)	187	minimi	0.00	-73.10925	-8.42367	1.1499	-0.22029	-0.86536	-18.234
Asta 157 (88-87)	187	minimi	94.00	-74.578	-8.42367	1.1499	-0.22029	0.27794	-10.316
Asta 157 (88-87)	187	minimi	188.00	-76.04675	-8.42367	1.1499	-0.22029	1.35884	-2.398

Asta 158 (93-92)	188	massimi	0.00	-26.12985	-4.15156	0.16825	-0.0709	0.69905	-12.182
Asta 158 (93-92)	188	massimi	94.00	-27.5986	-4.15156	0.16825	-0.0709	0.85721	-8.28
Asta 158 (93-92)	188	massimi	188.00	-29.06735	-4.15156	0.16825	-0.0709	1.01537	-4.377
Asta 158 (93-92)	188	minimi	0.00	-27.81872	-4.441	0.15619	-0.07496	0.66605	-13.001
Asta 158 (93-92)	188	minimi	94.00	-29.28747	-4.441	0.15619	-0.07496	0.81286	-8.826
Asta 158 (93-92)	188	minimi	188.00	-30.75622	-4.441	0.15619	-0.07496	0.95968	-4.652
Asta 159 (103-102)	189	massimi	0.00	-264.18669	46.59119	-5.71846	0.80132	2.12554	-9.489
Asta 159 (103-102)	189	massimi	94.00	-268.41669	46.59119	-5.71846	0.80132	-3.45378	-48.86
Asta 159 (103-102)	189	massimi	188.00	-272.64669	46.59119	-5.71846	0.80132	-8.82913	-88.232
Asta 159 (103-102)	189	minimi	0.00	-276.11732	41.88439	-5.95636	0.74817	1.92157	-10.111
Asta 159 (103-102)	189	minimi	94.00	-280.34732	41.88439	-5.95636	0.74817	-3.47344	-53.907
Asta 159 (103-102)	189	minimi	188.00	-284.57732	41.88439	-5.95636	0.74817	-9.07242	-97.703
Asta 160 (108-107)	190	massimi	0.00	-340.17185	-5.32141	-10.84799	-1.00552	2.31487	20.504
Asta 160 (108-107)	190	massimi	94.00	-344.40185	-5.32141	-10.84799	-1.00552	-8.04158	26.618
Asta 160 (108-107)	190	massimi	188.00	-348.63185	-5.32141	-10.84799	-1.00552	-18.23868	32.733
Asta 160 (108-107)	190	minimi	0.00	-356.41177	-6.50504	-11.54734	-1.0665	2.15553	20.346
Asta 160 (108-107)	190	minimi	94.00	-360.64177	-6.50504	-11.54734	-1.0665	-8.53962	25.348
Asta 160 (108-107)	190	minimi	188.00	-364.87177	-6.50504	-11.54734	-1.0665	-19.39412	30.35
Asta 161 (113-112)	191	massimi	0.00	-86.04997	-17.42108	-27.50637	-1.08164	26.37087	-7.155
Asta 161 (113-112)	191	massimi	94.00	-87.51872	-17.42108	-27.50637	-1.08164	-1.04012	10.463
Asta 161 (113-112)	191	massimi	188.00	-88.98747	-17.42108	-27.50637	-1.08164	-26.8961	28.523
Asta 161 (113-112)	191	minimi	0.00	-88.30161	-19.21206	-29.32251	-1.15662	24.81587	-7.596
Asta 161 (113-112)	191	minimi	94.00	-89.77036	-19.21206	-29.32251	-1.15662	-1.19229	9.221
Asta 161 (113-112)	191	minimi	188.00	-91.23911	-19.21206	-29.32251	-1.15662	-28.75545	25.596
Asta 162 (118-117)	192	massimi	0.00	-77.91353	15.13053	17.03608	0.19096	-8.01179	4.633
Asta 162 (118-117)	192	massimi	94.00	-79.38228	15.13053	17.03608	0.19096	7.6302	-8.689

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Asta 162 (118- 117)	192	massimi	188.00	-80.85103	15.13053	17.03608	0.19096	23.64412	-21.722
Asta 162 (118- 117)	192	minimi	0.00	-78.44723	13.86487	15.79842	0.17727	-8.38372	4.344
Asta 162 (118- 117)	192	minimi	94.00	-79.91598	13.86487	15.79842	0.17727	6.83873	-9.59
Asta 162 (118- 117)	192	minimi	188.00	-81.38472	13.86487	15.79842	0.17727	21.68925	-23.812
Asta 163 (123- 122)	193	massimi	0.00	-57.8423	-16.06955	5.46658	-1.15107	-1.90275	-4.757
Asta 163 (123- 122)	193	massimi	94.00	-59.31105	-16.06955	5.46658	-1.15107	3.08618	11.425
Asta 163 (123- 122)	193	massimi	188.00	-60.7798	-16.06955	5.46658	-1.15107	8.22477	27.931
Asta 163 (123- 122)	193	minimi	0.00	-58.41984	-17.55945	4.92911	-1.25757	-2.05241	-5.081
Asta 163 (123- 122)	193	minimi	94.00	-59.88859	-17.55945	4.92911	-1.25757	2.73061	10.349
Asta 163 (123- 122)	193	minimi	188.00	-61.35734	-17.55945	4.92911	-1.25757	7.36397	25.454
Asta 164 (128- 127)	194	massimi	0.00	-77.84606	7.3879	-14.79043	-0.68801	8.57158	2.139
Asta 164 (128- 127)	194	massimi	94.00	-79.31481	7.3879	-14.79043	-0.68801	-5.68786	-4.556
Asta 164 (128- 127)	194	massimi	188.00	-80.78356	7.3879	-14.79043	-0.68801	-19.59086	-11.151
Asta 164 (128- 127)	194	minimi	0.00	-82.1873	7.0158	-15.93819	-0.7502	8.21515	2.039
Asta 164 (128- 127)	194	minimi	94.00	-83.65605	7.0158	-15.93819	-0.7502	-6.41032	-4.805
Asta 164 (128- 127)	194	minimi	188.00	-85.1248	7.0158	-15.93819	-0.7502	-21.39222	-11.75
Asta 165 (133- 132)	195	massimi	0.00	-89.27866	-2.41962	-6.4815	-0.07066	1.63375	0.568
Asta 165 (133- 132)	195	massimi	94.00	-90.74741	-2.41962	-6.4815	-0.07066	-4.52232	2.888
Asta 165 (133- 132)	195	massimi	188.00	-92.21616	-2.41962	-6.4815	-0.07066	-10.61492	5.209
Asta 165 (133- 132)	195	minimi	0.00	-97.20387	-2.46894	-7.16773	-0.08509	1.57029	0.45
Asta 165 (133- 132)	195	minimi	94.00	-98.67262	-2.46894	-7.16773	-0.08509	-5.10392	2.724
Asta 165 (133- 132)	195	minimi	188.00	-100.14137	-2.46894	-7.16773	-0.08509	-11.84158	4.999
Asta 166 (138- 137)	196	massimi	0.00	-93.23933	1.53335	-1.82632	-0.93621	0.78957	1.542
Asta 166	196	massimi	94.00	-94.70808	1.53335	-1.82632	-0.93621	-1.02401	0.123

(138-137)									
Asta 166 (138-137)	196	massimi	188.00	-96.17683	1.53335	-1.82632	-0.93621	-2.74075	-1.296
Asta 166 (138-137)	196	minimi	0.00	-96.45494	1.50967	-2.09786	-1.0204	0.69273	1.51
Asta 166 (138-137)	196	minimi	94.00	-97.92369	1.50967	-2.09786	-1.0204	-1.18242	0.069
Asta 166 (138-137)	196	minimi	188.00	-99.39244	1.50967	-2.09786	-1.0204	-3.15441	-1.373
Asta 167 (143-142)	197	massimi	0.00	-75.60084	-9.12397	-23.38988	-2.24981	20.16668	-2.444
Asta 167 (143-142)	197	massimi	94.00	-77.06959	-9.12397	-23.38988	-2.24981	-3.21239	6.723
Asta 167 (143-142)	197	massimi	188.00	-78.53834	-9.12397	-23.38988	-2.24981	-25.19888	15.997
Asta 167 (143-142)	197	minimi	0.00	-79.80917	-9.86595	-25.11571	-2.43555	18.77409	-2.551
Asta 167 (143-142)	197	minimi	94.00	-81.27792	-9.86595	-25.11571	-2.43555	-3.44208	6.132
Asta 167 (143-142)	197	minimi	188.00	-82.74667	-9.86595	-25.11571	-2.43555	-27.05085	14.709
Asta 168 (148-147)	198	massimi	0.00	-29.54922	-3.40906	-7.43712	-0.17323	1.92004	-1.318
Asta 168 (148-147)	198	massimi	94.00	-31.01797	-3.40906	-7.43712	-0.17323	-5.17449	2.005
Asta 168 (148-147)	198	massimi	188.00	-32.48672	-3.40906	-7.43712	-0.17323	-12.16538	5.392
Asta 168 (148-147)	198	minimi	0.00	-31.02598	-3.60272	-7.91809	-0.17399	1.8164	-1.381
Asta 168 (148-147)	198	minimi	94.00	-32.49473	-3.60272	-7.91809	-0.17399	-5.52297	1.886
Asta 168 (148-147)	198	minimi	188.00	-33.96348	-3.60272	-7.91809	-0.17399	-12.96598	5.091
Asta 169 (153-152)	199	massimi	0.00	-81.17837	-7.60078	-1.45076	0.95495	0.67852	-2.427
Asta 169 (153-152)	199	massimi	94.00	-82.64712	-7.60078	-1.45076	0.95495	-0.73746	5.174
Asta 169 (153-152)	199	massimi	188.00	-84.11587	-7.60078	-1.45076	0.95495	-2.10117	12.984
Asta 169 (153-152)	199	minimi	0.00	-85.23184	-8.30877	-1.56437	0.88087	0.62626	-2.637
Asta 169 (153-152)	199	minimi	94.00	-86.70059	-8.30877	-1.56437	0.88087	-0.79199	4.718
Asta 169 (153-152)	199	minimi	188.00	-88.16934	-8.30877	-1.56437	0.88087	-2.26251	11.863
Asta 170 (158-157)	200	massimi	0.00	-83.33772	-6.71954	-0.73764	0.51881	-1.56565	-2.384

Asta 170 (158-157)	200	massimi	94.00	-84.80647	-6.71954	-0.73764	0.51881	-2.29762	4.233
Asta 170 (158-157)	200	massimi	188.00	-86.27522	-6.71954	-0.73764	0.51881	-3.02959	11.09
Asta 170 (158-157)	200	minimi	0.00	-90.41113	-7.29472	-0.77869	0.47709	-1.89138	-2.624
Asta 170 (158-157)	200	minimi	94.00	-91.87988	-7.29472	-0.77869	0.47709	-2.58476	3.933
Asta 170 (158-157)	200	minimi	188.00	-93.34863	-7.29472	-0.77869	0.47709	-3.27814	10.249
Asta 171 (4-9)	201	massimi	0.00	36.1692	0.12898	55.90343	-0.97916	-110.65148	0.657
Asta 171 (4-9)	201	massimi	630.00	36.1692	0.12898	-0.70521	0.37137	58.34336	-0.156
Asta 171 (4-9)	201	massimi	1260.00	36.1692	0.12898	-52.8137	1.23238	-113.17599	-0.865
Asta 171 (4-9)	201	minimi	0.00	33.81466	0.11106	54.43241	-1.10816	-113.44443	0.534
Asta 171 (4-9)	201	minimi	630.00	33.81466	0.11106	-0.79762	0.33114	56.99888	-0.166
Asta 171 (4-9)	201	minimi	1260.00	33.81466	0.11106	-54.07868	1.09363	-116.31248	-0.968
Asta 172 (14-4)	202	massimi	0.00	-0.97341	0.10144	19.20407	0.50727	-1.78808	0.579
Asta 172 (14-4)	202	massimi	237.00	-0.97341	0.10144	-6.35974	1.0517	11.85918	0.365
Asta 172 (14-4)	202	massimi	474.00	-0.97341	0.10144	-30.46144	1.34161	-32.32353	0.434
Asta 172 (14-4)	202	minimi	0.00	-0.98312	-0.02903	18.97337	0.47358	-3.33344	0.296
Asta 172 (14-4)	202	minimi	237.00	-0.98312	-0.02903	-7.18157	1.01926	11.59833	0.339
Asta 172 (14-4)	202	minimi	474.00	-0.98312	-0.02903	-31.68574	1.276	-34.52461	0.099
Asta 173 (9-19)	203	massimi	0.00	-2.87359	-0.95174	41.46839	-3.26811	-51.42452	-2.682
Asta 173 (9-19)	203	massimi	237.00	-2.87359	-0.95174	15.31345	-2.75612	11.57803	-0.427
Asta 173 (9-19)	203	massimi	474.00	-2.87359	-0.95174	-9.19072	-2.49938	18.50744	1.859
Asta 173 (9-19)	203	minimi	0.00	-3.01189	-0.9857	39.39762	-3.49819	-55.38243	-2.813
Asta 173 (9-19)	203	minimi	237.00	-3.01189	-0.9857	13.83381	-2.92008	11.36597	-0.477
Asta 173 (9-19)	203	minimi	474.00	-3.01189	-0.9857	-10.26789	-2.63017	15.30282	1.829
Asta 174 (29-14)	204	massimi	0.00	-0.79823	-0.55854	27.07004	-1.30719	-20.90651	-1.497
Asta 174 (29-14)	204	massimi	237.00	-0.79823	-0.55854	0.91511	-0.7952	11.43367	-0.173
Asta 174 (29-14)	204	massimi	474.00	-0.79823	-0.55854	-23.26264	-0.53846	-15.761	1.158
Asta 174 (29-14)	204	minimi	0.00	-0.81824	-0.58624	26.40287	-1.45276	-21.4027	-1.621
Asta 174 (29-14)	204	minimi	237.00	-0.81824	-0.58624	0.83907	-0.87464	11.08642	-0.232
Asta 174 (29-14)	204	minimi	474.00	-0.81824	-0.58624	-23.58907	-0.58473	-15.77427	1.151
Asta 175 (24-19)	205	massimi	0.00	-14.63514	-0.84808	47.06499	1.17706	-23.84649	-2.478
Asta 175 (24-19)	205	massimi	307.50	-14.63514	-0.84808	-2.592	0.41553	42.16966	0.147
Asta 175 (24-19)	205	massimi	615.00	-14.63514	-0.84808	-47.42133	0.07824	-38.03033	2.921
Asta 175	205	minimi	0.00	-15.67149	-0.9021	44.17119	1.07491	-25.61629	-2.626

(24-19)									
Asta 175 (24-19)	205	minimi	307.50	-15.67149	-0.9021	-2.64694	0.40034	39.47334	0.13
Asta 175 (24-19)	205	minimi	615.00	-15.67149	-0.9021	-49.94155	0.05193	-39.19196	2.737
Asta 176 (19-34)	206	massimi	0.00	-4.71982	0.17715	24.44979	-1.14046	-21.32413	0.866
Asta 176 (19-34)	206	massimi	237.00	-4.71982	0.17715	3.4696	-1.14046	10.8096	0.478
Asta 176 (19-34)	206	massimi	474.00	-4.71982	0.17715	-17.51058	-1.14046	-5.82896	0.123
Asta 176 (19-34)	206	minimi	0.00	-5.02654	0.1496	23.94662	-1.22292	-22.27488	0.832
Asta 176 (19-34)	206	minimi	237.00	-5.02654	0.1496	2.96644	-1.22292	10.56784	0.447
Asta 176 (19-34)	206	minimi	474.00	-5.02654	0.1496	-18.01375	-1.22292	-7.26322	0.027
Asta 177 (39-24)	207	massimi	0.00	-13.9984	0.67824	5.04306	1.7101	7.9179	1.148
Asta 177 (39-24)	207	massimi	237.00	-13.9984	0.67824	-6.19206	1.14546	5.34434	-0.422
Asta 177 (39-24)	207	massimi	474.00	-13.9984	0.67824	-16.17933	0.84661	-21.70129	-1.967
Asta 177 (39-24)	207	minimi	0.00	-15.19029	0.65203	4.94373	1.62356	6.66329	1.123
Asta 177 (39-24)	207	minimi	237.00	-15.19029	0.65203	-6.8807	1.1234	5.05526	-0.459
Asta 177 (39-24)	207	minimi	474.00	-15.19029	0.65203	-17.29626	0.83301	-23.58361	-2.067
Asta 178 (44-29)	208	massimi	0.00	-1.28739	0.0355	26.92516	-0.60858	-21.76924	-0.518
Asta 178 (44-29)	208	massimi	237.00	-1.28739	0.0355	0.77022	-0.09659	10.11498	-0.60
Asta 178 (44-29)	208	massimi	474.00	-1.28739	0.0355	-23.39707	0.18349	-17.27423	-0.682
Asta 178 (44-29)	208	minimi	0.00	-1.29879	0.03469	26.26844	-0.68454	-22.37802	-0.566
Asta 178 (44-29)	208	minimi	237.00	-1.29879	0.03469	0.70463	-0.10642	9.90508	-0.65
Asta 178 (44-29)	208	minimi	474.00	-1.29879	0.03469	-23.73395	0.16015	-17.42307	-0.734
Asta 179 (39-34)	209	massimi	0.00	-19.71496	-1.51298	73.91723	0.90525	-36.3032	-4.504
Asta 179 (39-34)	209	massimi	307.50	-19.71496	-1.51298	-6.70045	0.90525	63.97198	0.161
Asta 179 (39-34)	209	massimi	615.00	-19.71496	-1.51298	-82.7785	0.90525	-77.51095	5.142
Asta 179 (39-34)	209	minimi	0.00	-21.56511	-1.61958	69.37761	0.84106	-39.27597	-4.819
Asta 179 (39-34)	209	minimi	307.50	-21.56511	-1.61958	-6.7641	0.84106	60.06293	0.148
Asta 179 (39-34)	209	minimi	615.00	-21.56511	-1.61958	-87.44542	0.84106	-80.87516	4.801
Asta 180 (34-49)	210	massimi	0.00	-6.44601	0.98836	20.31796	-0.16287	-13.47834	2.814
Asta 180 (34-49)	210	massimi	237.00	-6.44601	0.98836	-0.66222	-0.16287	9.49794	0.472
Asta 180 (34-49)	210	massimi	474.00	-6.44601	0.98836	-21.64241	-0.16287	-17.08556	-1.746
Asta 180 (34-49)	210	minimi	0.00	-6.90772	0.91611	20.18473	-0.17777	-13.94663	2.596
Asta 180 (34-49)	210	minimi	237.00	-6.90772	0.91611	-0.79546	-0.17777	9.34542	0.425
Asta 180 (34-49)	210	minimi	474.00	-6.90772	0.91611	-21.77565	-0.17777	-17.24882	-1.871
Asta 181 (54-39)	211	massimi	0.00	-27.40484	1.00433	7.07968	-0.30632	7.93367	1.489
Asta 181 (54-39)	211	massimi	237.00	-27.40484	1.00433	-4.48858	-0.80648	10.42232	-0.811
Asta 181	211	massimi	474.00	-27.40484	1.00433	-14.47585	-1.08327	-13.02882	-3.015

(54-39)									
Asta 181 (54-39)	211	minimi	0.00	-29.71887	0.92979	6.74654	-0.3071	7.26124	1.393
Asta 181 (54-39)	211	minimi	237.00	-29.71887	0.92979	-4.74474	-0.87173	9.69048	-0.891
Asta 181 (54-39)	211	minimi	474.00	-29.71887	0.92979	-15.16031	-1.18418	-13.44342	-3.271
Asta 182 (74-44)	212	massimi	0.00	-1.62451	0.43699	26.70529	-0.06299	-20.68982	0.793
Asta 182 (74-44)	212	massimi	237.00	-1.62451	0.43699	0.55035	0.49259	10.77136	-0.226
Asta 182 (74-44)	212	massimi	474.00	-1.62451	0.43699	-23.60647	0.7825	-17.18737	-1.245
Asta 182 (74-44)	212	minimi	0.00	-1.66853	0.42987	26.05903	-0.08553	-21.20055	0.745
Asta 182 (74-44)	212	minimi	237.00	-1.66853	0.42987	0.49523	0.44899	10.48822	-0.291
Asta 182 (74-44)	212	minimi	474.00	-1.66853	0.42987	-23.95382	0.70573	-17.28777	-1.326
Asta 183 (54-49)	213	massimi	0.00	-23.83177	-2.46897	72.51188	-0.35617	-33.51974	-7.741
Asta 183 (54-49)	213	massimi	307.50	-23.83177	-2.46897	-8.04014	-0.35617	62.53552	-0.149
Asta 183 (54-49)	213	massimi	615.00	-23.83177	-2.46897	-84.11819	-0.35617	-82.9666	8.058
Asta 183 (54-49)	213	minimi	0.00	-26.0753	-2.67313	68.03791	-0.39398	-36.39099	-8.382
Asta 183 (54-49)	213	minimi	307.50	-26.0753	-2.67313	-8.16944	-0.39398	58.72683	-0.162
Asta 183 (54-49)	213	minimi	615.00	-26.0753	-2.67313	-88.85077	-0.39398	-86.63306	7.443
Asta 184 (49-79)	214	massimi	0.00	-7.00885	1.73123	19.95773	0.4698	-12.05731	4.494
Asta 184 (49-79)	214	massimi	237.00	-7.00885	1.73123	-1.02246	0.4698	9.96239	0.391
Asta 184 (49-79)	214	massimi	474.00	-7.00885	1.73123	-22.00264	0.4698	-17.4885	-3.406
Asta 184 (49-79)	214	minimi	0.00	-7.51669	1.59155	19.78111	0.42751	-12.64204	4.138
Asta 184 (49-79)	214	minimi	237.00	-7.51669	1.59155	-1.19908	0.42751	9.79625	0.366
Asta 184 (49-79)	214	minimi	474.00	-7.51669	1.59155	-22.17927	0.42751	-17.74095	-3.712
Asta 185 (84-54)	215	massimi	0.00	-59.94746	1.89377	9.78525	0.61547	7.16949	4.621
Asta 185 (84-54)	215	massimi	237.00	-59.94746	1.89377	-4.48774	0.05084	12.91085	0.133
Asta 185 (84-54)	215	massimi	474.00	-59.94746	1.89377	-16.78576	-0.24043	-13.47052	-3.993
Asta 185 (84-54)	215	minimi	0.00	-63.94777	1.73075	9.05813	0.53652	6.81557	4.211
Asta 185 (84-54)	215	minimi	237.00	-63.94777	1.73075	-4.70542	0.03636	11.98503	0.109
Asta 185 (84-54)	215	minimi	474.00	-63.94777	1.73075	-17.78724	-0.26161	-14.0212	-4.355
Asta 186 (104-74)	216	massimi	0.00	-2.10561	0.52159	31.27547	-1.17606	-30.30334	2.274
Asta 186 (104-74)	216	massimi	237.00	-2.10561	0.52159	5.12053	-0.66407	10.61085	1.038
Asta 186 (104-74)	216	massimi	474.00	-2.10561	0.52159	-19.38364	-0.40733	-6.61695	0.12
Asta 186 (104-74)	216	minimi	0.00	-2.16523	0.35407	30.08462	-1.34679	-32.19239	1.798
Asta 186 (104-74)	216	minimi	237.00	-2.16523	0.35407	4.52082	-0.76867	10.41533	0.959
Asta 186 (104-74)	216	minimi	474.00	-2.16523	0.35407	-19.58089	-0.47876	-7.71962	-0.198
Asta 187 (84-79)	217	massimi	0.00	-31.64956	-2.72967	73.71298	-1.80439	-37.68707	-8.177
Asta 187	217	massimi	307.50	-31.64956	-2.72967	-6.93852	-1.80439	61.70499	0.242

(84-79)									
Asta 187 (84-79)	217	massimi	615.00	-31.64956	-2.72967	-83.01657	-1.80439	-80.35894	9.28
Asta 187 (84-79)	217	minimi	0.00	-34.33648	-2.93904	69.13954	-1.95497	-40.91487	-8.795
Asta 187 (84-79)	217	minimi	307.50	-34.33648	-2.93904	-6.96835	-1.95497	57.947	0.217
Asta 187 (84-79)	217	minimi	615.00	-34.33648	-2.93904	-87.64968	-1.95497	-83.77023	8.61
Asta 188 (79-109)	218	massimi	0.00	-7.40461	2.10204	12.75498	2.03814	6.39163	5.267
Asta 188 (79-109)	218	massimi	237.00	-7.40461	2.10204	-8.2252	2.03814	9.34613	0.285
Asta 188 (79-109)	218	massimi	474.00	-7.40461	2.10204	-29.20539	2.03814	-35.00911	-4.495
Asta 188 (79-109)	218	minimi	0.00	-7.94484	2.00528	11.72822	1.84093	3.97834	5.01
Asta 188 (79-109)	218	minimi	237.00	-7.94484	2.00528	-9.25196	1.84093	9.326	0.257
Asta 188 (79-109)	218	minimi	474.00	-7.94484	2.00528	-30.23215	1.84093	-37.46267	-4.697
Asta 189 (114-84)	219	massimi	0.00	-67.40099	0.61444	11.71902	1.44405	-4.3759	-0.458
Asta 189 (114-84)	219	massimi	237.00	-67.40099	0.61444	2.38715	1.44405	12.28991	-1.914
Asta 189 (114-84)	219	massimi	474.00	-67.40099	0.61444	-6.71542	1.44405	6.88917	-3.371
Asta 189 (114-84)	219	minimi	0.00	-71.66269	0.60196	11.23733	1.38197	-4.4259	-0.669
Asta 189 (114-84)	219	minimi	237.00	-71.66269	0.60196	2.26095	1.38197	11.61956	-2.096
Asta 189 (114-84)	219	minimi	474.00	-71.66269	0.60196	-6.94473	1.38197	6.34101	-3.523
Asta 190 (119-104)	220	massimi	0.00	12.96255	-3.004	-17.16951	10.70509	38.12042	-5.458
Asta 190 (119-104)	220	massimi	173.00	12.96255	-3.004	-36.72198	11.1761	-14.75539	-0.227
Asta 190 (119-104)	220	massimi	346.00	12.96255	-3.004	-54.48554	11.34259	-93.9078	5.479
Asta 190 (119-104)	220	minimi	0.00	10.91622	-3.29869	-21.20133	10.14769	32.11865	-5.934
Asta 190 (119-104)	220	minimi	173.00	10.91622	-3.29869	-41.18242	10.56483	-16.13271	-0.261
Asta 190 (119-104)	220	minimi	346.00	10.91622	-3.29869	-59.14377	10.71227	-103.20603	4.936
Asta 191 (114-109)	221	massimi	0.00	-30.14684	-4.43907	64.87755	-3.6956	-34.76326	-14.71
Asta 191 (114-109)	221	massimi	307.50	-30.14684	-4.43907	-4.77422	-3.6956	54.76044	-1.06
Asta 191 (114-109)	221	massimi	615.00	-30.14684	-4.43907	-70.52028	-3.6956	-64.12471	13.639
Asta 191 (114-109)	221	minimi	0.00	-33.14527	-4.8105	60.97184	-3.99447	-37.59712	-15.945
Asta 191 (114-109)	221	minimi	307.50	-33.14527	-4.8105	-4.80759	-3.99447	51.64058	-1.153
Asta 191 (114-109)	221	minimi	615.00	-33.14527	-4.8105	-74.49273	-3.99447	-67.1638	12.59
Asta 192 (109-114)	222	massimi	0.00	24.8377	4.12937	59.98012	-3.22139	-87.91255	10.213

124)									
Asta 192 (109- 124)	222	massimi	127.00	24.8377	4.12937	38.73401	-3.22139	-30.9009	4.969
Asta 192 (109- 124)	222	massimi	254.00	24.8377	4.12937	17.48791	-3.22139	2.49955	-0.249
Asta 192 (109- 124)	222	minimi	0.00	23.92612	3.77072	55.2236	-3.48326	-95.88485	9.329
Asta 192 (109- 124)	222	minimi	127.00	23.92612	3.77072	34.55852	-3.48326	-33.20137	4.54
Asta 192 (109- 124)	222	minimi	254.00	23.92612	3.77072	13.89344	-3.48326	-0.13391	-0.276
Asta 193 (144- 114)	223	massimi	0.00	-34.32889	9.15694	20.64754	-0.80814	-24.62293	13.465
Asta 193 (144- 114)	223	massimi	165.00	-34.32889	9.15694	16.00691	-0.80814	3.97946	-1.493
Asta 193 (144- 114)	223	massimi	330.00	-34.32889	9.15694	11.36629	-0.80814	26.56235	-15.283
Asta 193 (144- 114)	223	minimi	0.00	-36.65423	8.35735	19.56699	-0.88062	-26.26046	12.296
Asta 193 (144- 114)	223	minimi	165.00	-36.65423	8.35735	14.92636	-0.88062	3.83409	-1.644
Asta 193 (144- 114)	223	minimi	330.00	-36.65423	8.35735	10.28574	-0.88062	24.63407	-16.752
Asta 194 (124- 119)	224	massimi	0.00	1.85776	-2.29499	38.98952	-4.57484	-31.95447	-9.85
Asta 194 (124- 119)	224	massimi	330.00	1.85776	-2.29499	5.97467	-4.57484	42.23645	-2.276
Asta 194 (124- 119)	224	massimi	660.00	1.85776	-2.29499	-27.04018	-4.57484	7.47836	5.812
Asta 194 (124- 119)	224	minimi	0.00	-1.19744	-2.51465	38.46755	-4.79761	-32.00079	-10.785
Asta 194 (124- 119)	224	minimi	330.00	-1.19744	-2.51465	5.4527	-4.79761	40.46763	-2.486
Asta 194 (124- 119)	224	minimi	660.00	-1.19744	-2.51465	-27.56215	-4.79761	3.98703	5.297
Asta 195 (119- 129)	225	massimi	0.00	-16.50743	3.01687	70.01219	6.03665	-43.58823	11.555
Asta 195 (119- 129)	225	massimi	330.00	-16.50743	3.01687	1.59845	5.27888	71.38318	1.60
Asta 195 (119- 129)	225	massimi	660.00	-16.50743	3.01687	-61.65435	4.79032	-32.1102	-7.639
Asta 195 (119- 129)	225	minimi	0.00	-17.82012	2.76009	65.99209	5.48573	-46.37405	10.577
Asta 195 (119- 129)	225	minimi	330.00	-17.82012	2.76009	1.52421	4.81448	67.4591	1.469
Asta 195 (119- 129)	225	minimi	660.00	-17.82012	2.76009	-65.35961	4.3817	-34.22305	-8.356
Asta 196	226	massimi	0.00	-10.99481	7.5641	34.27819	-5.89846	-7.05572	11.767

(124-139)									
Asta 196 (124-139)	226	massimi	165.00	-10.99481	7.5641	1.76219	-5.89846	21.77937	-0.65
Asta 196 (124-139)	226	massimi	330.00	-10.99481	7.5641	-29.61052	-5.89846	-2.13871	-12.052
Asta 196 (124-139)	226	minimi	0.00	-12.1106	6.91038	31.78323	-6.19446	-7.95395	10.752
Asta 196 (124-139)	226	minimi	165.00	-12.1106	6.91038	1.08636	-6.19446	20.06169	-0.714
Asta 196 (124-139)	226	minimi	330.00	-12.1106	6.91038	-30.75381	-6.19446	-3.47075	-13.195
Asta 197 (129-134)	227	massimi	0.00	-9.77589	-1.717	14.76519	4.61306	-6.91807	-6.951
Asta 197 (129-134)	227	massimi	330.00	-9.77589	-1.717	-1.473	3.85529	14.13495	-1.285
Asta 197 (129-134)	227	massimi	660.00	-9.77589	-1.717	-15.78589	3.36673	-15.22162	4.815
Asta 197 (129-134)	227	minimi	0.00	-10.40477	-1.88192	14.12921	4.37168	-7.10116	-7.606
Asta 197 (129-134)	227	minimi	330.00	-10.40477	-1.88192	-1.65221	3.70043	13.61011	-1.396
Asta 197 (129-134)	227	minimi	660.00	-10.40477	-1.88192	-16.61392	3.26765	-16.40446	4.381
Asta 198 (139-134)	228	massimi	0.00	-5.92151	3.04177	23.84762	3.84878	0.12083	1.169
Asta 198 (139-134)	228	massimi	165.00	-5.92151	3.04177	-5.35691	3.84878	14.17511	-3.535
Asta 198 (139-134)	228	massimi	330.00	-5.92151	3.04177	-34.44504	3.84878	-19.28708	-8.234
Asta 198 (139-134)	228	minimi	0.00	-6.48694	2.84813	23.73121	3.76568	-1.60927	1.165
Asta 198 (139-134)	228	minimi	165.00	-6.48694	2.84813	-6.81213	3.76568	13.54953	-3.85
Asta 198 (139-134)	228	minimi	330.00	-6.48694	2.84813	-37.47188	3.76568	-22.35919	-8.869
Asta 199 (134-159)	229	massimi	0.00	-10.20439	-1.15702	41.05557	14.63077	-8.71203	-3.782
Asta 199 (134-159)	229	massimi	244.50	-10.20439	-1.15702	-8.52186	1.32308	27.78078	-0.953
Asta 199 (134-159)	229	massimi	489.00	-10.20439	-1.15702	-49.01726	-5.22843	-46.29939	1.904
Asta 199 (134-159)	229	minimi	0.00	-10.97761	-1.20113	36.98524	12.42886	-9.86429	-3.969
Asta 199 (134-159)	229	minimi	244.50	-10.97761	-1.20113	-9.27865	1.12526	25.06332	-1.032
Asta 199 (134-159)	229	minimi	489.00	-10.97761	-1.20113	-53.7124	-6.15701	-50.428	1.875

Asta 200 (139-154)	230	massimi	0.00	-5.5956	-3.24698	39.79101	-1.24199	-13.19802	-12.28
Asta 200 (139-154)	230	massimi	244.50	-5.5956	-3.24698	-3.84196	-1.24199	30.02618	-4.342
Asta 200 (139-154)	230	massimi	489.00	-5.5956	-3.24698	-45.51903	-1.24199	-31.98522	3.898
Asta 200 (139-154)	230	minimi	0.00	-6.032	-3.52581	37.8351	-1.29921	-13.57769	-13.343
Asta 200 (139-154)	230	minimi	244.50	-6.032	-3.52581	-4.12323	-1.29921	28.35859	-4.723
Asta 200 (139-154)	230	minimi	489.00	-6.032	-3.52581	-48.03746	-1.29921	-33.74026	3.597
Asta 201 (149-144)	231	massimi	0.00	-7.05879	-0.0758	12.92158	-1.42034	-16.9408	3.321
Asta 201 (149-144)	231	massimi	165.00	-7.05879	-0.0758	6.4247	-1.42034	-2.02091	3.453
Asta 201 (149-144)	231	massimi	330.00	-7.05879	-0.0758	-0.07217	-1.42034	2.89403	3.585
Asta 201 (149-144)	231	minimi	0.00	-7.4546	-0.08017	12.16704	-1.55908	-18.30749	3.009
Asta 201 (149-144)	231	minimi	165.00	-7.4546	-0.08017	5.91767	-1.55908	-2.34681	3.134
Asta 201 (149-144)	231	minimi	330.00	-7.4546	-0.08017	-0.33171	-1.55908	2.58751	3.259
Asta 202 (154-144)	232	massimi	0.00	2.27677	-1.79623	35.13188	-3.78325	-19.52563	2.943
Asta 202 (154-144)	232	massimi	190.00	2.27677	-1.79623	1.20976	-3.78325	14.19529	6.67
Asta 202 (154-144)	232	massimi	380.00	2.27677	-1.79623	-31.17732	-3.78325	-14.92854	10.396
Asta 202 (154-144)	232	minimi	0.00	2.00518	-1.96143	33.59684	-4.0427	-20.13597	2.716
Asta 202 (154-144)	232	minimi	190.00	2.00518	-1.96143	1.00629	-4.0427	13.54064	6.129
Asta 202 (154-144)	232	minimi	380.00	2.00518	-1.96143	-33.11929	-4.0427	-16.31206	9.542
Asta 203 (159-149)	233	massimi	0.00	-3.48486	-0.37832	34.63623	-4.69065	-35.0459	1.398
Asta 203 (159-149)	233	massimi	190.00	-3.48486	-0.37832	8.61328	-5.1043	2.87759	2.266
Asta 203 (159-149)	233	massimi	380.00	-3.48486	-0.37832	-15.31968	-5.3074	-4.39767	3.147
Asta 203 (159-149)	233	minimi	0.00	-3.68289	-0.46349	32.25796	-5.23932	-38.17451	1.385
Asta 203 (159-149)	233	minimi	190.00	-3.68289	-0.46349	7.86342	-5.70628	2.69597	2.117
Asta 203 (159-149)	233	minimi	380.00	-3.68289	-0.46349	-16.0419	-5.93556	-4.57778	2.836

149)									
Asta 204 (4-3)	234	massimi	0.00	-252.37888	30.97406	10.61343	0.63036	-16.76274	41.754
Asta 204 (4-3)	234	massimi	66.00	-255.34888	30.97406	10.61343	0.63036	-10.16649	21.311
Asta 204 (4-3)	234	massimi	132.00	-258.31888	30.97406	10.61343	0.63036	-3.57023	2.842
Asta 204 (4-3)	234	minimi	0.00	-260.01494	27.75975	9.99432	0.462	-17.84134	39.485
Asta 204 (4-3)	234	minimi	66.00	-262.98494	27.75975	9.99432	0.462	-10.83648	21.163
Asta 204 (4-3)	234	minimi	132.00	-265.95494	27.75975	9.99432	0.462	-3.83162	0.868
Asta 205 (9-8)	235	massimi	0.00	-265.39238	-32.0825	17.85969	1.44916	-28.55787	-44.028
Asta 205 (9-8)	235	massimi	66.00	-268.36238	-32.0825	17.85969	1.44916	-17.57531	-22.854
Asta 205 (9-8)	235	massimi	132.00	-271.33238	-32.0825	17.85969	1.44916	-6.59275	0.357
Asta 205 (9-8)	235	minimi	0.00	-274.29025	-35.90465	16.64024	1.39411	-30.70364	-47.038
Asta 205 (9-8)	235	minimi	66.00	-277.26025	-35.90465	16.64024	1.39411	-18.91625	-23.341
Asta 205 (9-8)	235	minimi	132.00	-280.23025	-35.90465	16.64024	1.39411	-7.12886	-1.679
Asta 206 (14-13)	236	massimi	0.00	-293.84125	40.04005	4.53424	1.54177	-6.63138	24.235
Asta 206 (14-13)	236	massimi	66.00	-296.81125	40.04005	4.53424	1.54177	-3.96732	0.087
Asta 206 (14-13)	236	massimi	132.00	-299.78125	40.04005	4.53424	1.54177	-1.30327	-24.061
Asta 206 (14-13)	236	minimi	0.00	-303.90486	36.58802	4.03645	1.29655	-7.44222	22.678
Asta 206 (14-13)	236	minimi	66.00	-306.87486	36.58802	4.03645	1.29655	-4.44963	-3.748
Asta 206 (14-13)	236	minimi	132.00	-309.84485	36.58802	4.03645	1.29655	-1.45703	-30.175
Asta 207 (19-18)	237	massimi	0.00	-333.77474	-21.11392	14.53966	2.81036	-21.51524	-1.664
Asta 207 (19-18)	237	massimi	66.00	-336.74474	-21.11392	14.53966	2.81036	-12.8639	13.73
Asta 207 (19-18)	237	massimi	132.00	-339.71474	-21.11392	14.53966	2.81036	-4.21256	29.125
Asta 207 (19-18)	237	minimi	0.00	-345.83331	-23.32505	13.1081	2.6021	-23.8529	-2.845
Asta 207 (19-18)	237	minimi	66.00	-348.80331	-23.32505	13.1081	2.6021	-14.25673	11.09
Asta 207 (19-18)	237	minimi	132.00	-351.77331	-23.32505	13.1081	2.6021	-4.66055	25.026
Asta 208 (24-23)	238	massimi	0.00	-60.35052	-13.98311	14.28819	0.55961	-20.62638	-24.693
Asta 208 (24-23)	238	massimi	66.00	-61.38177	-13.98311	14.28819	0.55961	-11.94717	-15.464
Asta 208 (24-23)	238	massimi	132.00	-62.41302	-13.98311	14.28819	0.55961	-3.26796	-6.235
Asta 208 (24-23)	238	minimi	0.00	-64.36125	-14.99325	13.15032	0.51104	-22.40655	-26.449
Asta 208 (24-23)	238	minimi	66.00	-65.3925	-14.99325	13.15032	0.51104	-12.97634	-16.554
Asta 208 (24-23)	238	minimi	132.00	-66.42375	-14.99325	13.15032	0.51104	-3.54613	-6.658
Asta 209 (29-28)	239	massimi	0.00	-303.92796	36.86595	-0.88595	1.05212	1.46816	24.164
Asta 209 (29-28)	239	massimi	66.00	-306.89796	36.86595	-0.88595	1.05212	0.82611	1.921
Asta 209 (29-28)	239	massimi	132.00	-309.86796	36.86595	-0.88595	1.05212	0.18406	-20.322
Asta 209 (29-28)	239	minimi	0.00	-315.26443	33.70148	-0.9728	0.96568	1.33347	22.528
Asta 209	239	minimi	66.00	-318.23443	33.70148	-0.9728	0.96568	0.74874	-1.803

(29-28)									
Asta 209 (29-28)	239	minimi	132.00	-321.20443	33.70148	-0.9728	0.96568	0.16401	-26.135
Asta 210 (34-33)	240	massimi	0.00	-377.52211	-9.4303	4.28418	1.55438	-6.82377	18.275
Asta 210 (34-33)	240	massimi	66.00	-380.49211	-9.4303	4.28418	1.55438	-4.2867	25.066
Asta 210 (34-33)	240	massimi	132.00	-383.46211	-9.4303	4.28418	1.55438	-1.74963	31.857
Asta 210 (34-33)	240	minimi	0.00	-391.8382	-10.28939	3.84405	1.4098	-7.59205	15.962
Asta 210 (34-33)	240	minimi	66.00	-394.8082	-10.28939	3.84405	1.4098	-4.76448	22.186
Asta 210 (34-33)	240	minimi	132.00	-397.7782	-10.28939	3.84405	1.4098	-1.93692	28.41
Asta 211 (39-38)	241	massimi	0.00	-88.89651	-19.43721	12.909	0.3997	-18.85105	-33.596
Asta 211 (39-38)	241	massimi	66.00	-89.92776	-19.43721	12.909	0.3997	-11.00136	-20.768
Asta 211 (39-38)	241	massimi	132.00	-90.95901	-19.43721	12.909	0.3997	-3.15168	-7.939
Asta 211 (39-38)	241	minimi	0.00	-94.02127	-21.23903	11.89346	0.36601	-20.45607	-36.382
Asta 211 (39-38)	241	minimi	66.00	-95.05252	-21.23903	11.89346	0.36601	-11.93613	-22.364
Asta 211 (39-38)	241	minimi	132.00	-96.08377	-21.23903	11.89346	0.36601	-3.41619	-8.346
Asta 212 (44-43)	242	massimi	0.00	-303.79521	36.14326	-1.29936	-0.50156	2.22998	24.393
Asta 212 (44-43)	242	massimi	66.00	-306.76521	36.14326	-1.29936	-0.50156	1.27722	2.588
Asta 212 (44-43)	242	massimi	132.00	-309.73521	36.14326	-1.29936	-0.50156	0.32445	-19.217
Asta 212 (44-43)	242	minimi	0.00	-315.1143	33.03808	-1.44358	-0.53671	2.00124	22.782
Asta 212 (44-43)	242	minimi	66.00	-318.0843	33.03808	-1.44358	-0.53671	1.14367	-1.072
Asta 212 (44-43)	242	minimi	132.00	-321.0543	33.03808	-1.44358	-0.53671	0.28609	-24.927
Asta 213 (49-48)	243	massimi	0.00	-383.52768	-5.78125	-0.14325	0.27484	-0.1692	24.217
Asta 213 (49-48)	243	massimi	66.00	-386.49768	-5.78125	-0.14325	0.27484	-0.35528	28.411
Asta 213 (49-48)	243	massimi	132.00	-389.46768	-5.78125	-0.14325	0.27484	-0.53114	32.605
Asta 213 (49-48)	243	minimi	0.00	-398.73776	-6.35495	-0.28194	0.25692	-0.34205	21.512
Asta 213 (49-48)	243	minimi	66.00	-401.70776	-6.35495	-0.28194	0.25692	-0.43659	25.328
Asta 213 (49-48)	243	minimi	132.00	-404.67776	-6.35495	-0.28194	0.25692	-0.54136	29.143
Asta 214 (54-53)	244	massimi	0.00	-91.57022	-23.03081	31.55576	2.53696	-21.08794	-33.586
Asta 214 (54-53)	244	massimi	66.00	-92.60147	-23.03081	31.55576	2.53696	-1.23933	-18.385
Asta 214 (54-53)	244	massimi	132.00	-93.63272	-23.03081	31.55576	2.53696	19.30475	-3.185
Asta 214 (54-53)	244	minimi	0.00	-97.3788	-25.18585	30.07365	2.3557	-22.34885	-36.436
Asta 214 (54-53)	244	minimi	66.00	-98.41005	-25.18585	30.07365	2.3557	-1.52205	-19.814
Asta 214 (54-53)	244	minimi	132.00	-99.4413	-25.18585	30.07365	2.3557	18.60927	-3.191
Asta 215 (74-73)	245	massimi	0.00	-298.22722	37.8671	-3.9509	-0.81016	7.09461	26.316
Asta 215 (74-73)	245	massimi	66.00	-301.19722	37.8671	-3.9509	-0.81016	4.14833	3.534
Asta 215 (74-73)	245	massimi	132.00	-304.16722	37.8671	-3.9509	-0.81016	1.20205	-19.247
Asta 215	245	minimi	0.00	-308.82394	34.51751	-4.46406	-1.00158	6.28525	25.126

(74-73)									
Asta 215 (74-73)	245	minimi	66.00	-311.79394	34.51751	-4.46406	-1.00158	3.67766	0.134
Asta 215 (74-73)	245	minimi	132.00	-314.76394	34.51751	-4.46406	-1.00158	1.07006	-24.859
Asta 216 (79-78)	246	massimi	0.00	-372.10865	-1.90642	-6.00376	-0.7882	10.30291	32.223
Asta 216 (79-78)	246	massimi	66.00	-375.07865	-1.90642	-6.00376	-0.7882	5.81973	33.74
Asta 216 (79-78)	246	massimi	132.00	-378.04865	-1.90642	-6.00376	-0.7882	1.33656	35.258
Asta 216 (79-78)	246	minimi	0.00	-386.06315	-2.29898	-6.79269	-0.8265	9.08431	29.158
Asta 216 (79-78)	246	minimi	66.00	-389.03315	-2.29898	-6.79269	-0.8265	5.12183	30.416
Asta 216 (79-78)	246	minimi	132.00	-392.00315	-2.29898	-6.79269	-0.8265	1.15935	31.674
Asta 217 (84-83)	247	massimi	0.00	-84.91309	-32.76586	4.77588	0.65125	-2.2353	-38.533
Asta 217 (84-83)	247	massimi	66.00	-85.94434	-32.76586	4.77588	0.65125	0.91678	-16.907
Asta 217 (84-83)	247	massimi	132.00	-86.97559	-32.76586	4.77588	0.65125	4.06886	5.286
Asta 217 (84-83)	247	minimi	0.00	-90.44296	-35.62829	4.72386	0.59567	-2.27895	-41.743
Asta 217 (84-83)	247	minimi	66.00	-91.47421	-35.62829	4.72386	0.59567	0.8388	-18.229
Asta 217 (84-83)	247	minimi	132.00	-92.50546	-35.62829	4.72386	0.59567	3.95655	4.718
Asta 218 (104-103)	248	massimi	0.00	-258.24669	46.59119	-5.71846	0.80132	9.98793	51.389
Asta 218 (104-103)	248	massimi	66.00	-261.21669	46.59119	-5.71846	0.80132	6.05673	20.639
Asta 218 (104-103)	248	massimi	132.00	-264.18669	46.59119	-5.71846	0.80132	2.12554	-9.489
Asta 218 (104-103)	248	minimi	0.00	-270.17732	41.88439	-5.95636	0.74817	9.46993	45.798
Asta 218 (104-103)	248	minimi	66.00	-273.14732	41.88439	-5.95636	0.74817	5.69575	18.155
Asta 218 (104-103)	248	minimi	132.00	-276.11732	41.88439	-5.95636	0.74817	1.92157	-10.111
Asta 219 (109-108)	249	massimi	0.00	-334.23185	-5.32141	-10.84799	-1.00552	17.55735	13.321
Asta 219 (109-108)	249	massimi	66.00	-337.20185	-5.32141	-10.84799	-1.00552	9.93611	16.834
Asta 219 (109-108)	249	massimi	132.00	-340.17185	-5.32141	-10.84799	-1.00552	2.31487	20.504
Asta 219 (109-108)	249	minimi	0.00	-350.47177	-6.50504	-11.54734	-1.0665	16.47488	11.917
Asta 219 (109-108)	249	minimi	66.00	-353.44177	-6.50504	-11.54734	-1.0665	9.3152	16.21
Asta 219 (109-108)	249	minimi	132.00	-356.41177	-6.50504	-11.54734	-1.0665	2.15553	20.346
Asta 220 (114-113)	250	massimi	0.00	-61.92343	-22.40394	-37.51116	-0.11447	26.99377	-32.501
Asta 220 (114-113)	250	massimi	66.00	-62.95468	-22.40394	-37.51116	-0.11447	0.71326	-17.714

Asta 220 (114-113)	250	massimi	132.00	-63.98593	-22.40394	-37.51116	-0.11447	-24.20036	-2.886
Asta 220 (114-113)	250	minimi	0.00	-65.23028	-24.59029	-39.81896	-0.13775	25.31437	-35.345
Asta 220 (114-113)	250	minimi	66.00	-66.26153	-24.59029	-39.81896	-0.13775	0.557	-19.115
Asta 220 (114-113)	250	minimi	132.00	-67.29278	-24.59029	-39.81896	-0.13775	-25.56725	-2.927
Asta 221 (119-118)	251	massimi	0.00	-75.85103	15.13053	17.03608	0.19096	-28.8657	24.605
Asta 221 (119-118)	251	massimi	66.00	-76.88228	15.13053	17.03608	0.19096	-18.43874	14.619
Asta 221 (119-118)	251	massimi	132.00	-77.91353	15.13053	17.03608	0.19096	-8.01179	4.633
Asta 221 (119-118)	251	minimi	0.00	-76.38473	13.86487	15.79842	0.17727	-30.87135	22.646
Asta 221 (119-118)	251	minimi	66.00	-77.41598	13.86487	15.79842	0.17727	-19.62753	13.495
Asta 221 (119-118)	251	minimi	132.00	-78.44723	13.86487	15.79842	0.17727	-8.38372	4.344
Asta 222 (124-123)	252	massimi	0.00	-55.77981	-16.06955	5.46658	-1.15107	-8.40917	-25.968
Asta 222 (124-123)	252	massimi	66.00	-56.81105	-16.06955	5.46658	-1.15107	-5.15596	-15.363
Asta 222 (124-123)	252	massimi	132.00	-57.8423	-16.06955	5.46658	-1.15107	-1.90275	-4.757
Asta 222 (124-123)	252	minimi	0.00	-56.35734	-17.55945	4.92911	-1.25757	-9.2683	-28.26
Asta 222 (124-123)	252	minimi	66.00	-57.38859	-17.55945	4.92911	-1.25757	-5.66036	-16.67
Asta 222 (124-123)	252	minimi	132.00	-58.41984	-17.55945	4.92911	-1.25757	-2.05241	-5.081
Asta 223 (129-128)	253	massimi	0.00	-75.78356	7.3879	-14.79043	-0.68801	29.60999	11.891
Asta 223 (129-128)	253	massimi	66.00	-76.81481	7.3879	-14.79043	-0.68801	19.09079	7.015
Asta 223 (129-128)	253	massimi	132.00	-77.84606	7.3879	-14.79043	-0.68801	8.57158	2.139
Asta 223 (129-128)	253	minimi	0.00	-80.1248	7.0158	-15.93819	-0.7502	27.73852	11.30
Asta 223 (129-128)	253	minimi	66.00	-81.15605	7.0158	-15.93819	-0.7502	17.97683	6.669
Asta 223 (129-128)	253	minimi	132.00	-82.1873	7.0158	-15.93819	-0.7502	8.21515	2.039
Asta 224 (134-133)	254	massimi	0.00	-87.21616	-2.41962	-6.4815	-0.07066	11.09516	-2.691
Asta 224 (134-133)	254	massimi	66.00	-88.24741	-2.41962	-6.4815	-0.07066	6.36446	-1.062

133)									
Asta 224 (134-133)	254	massimi	132.00	-89.27866	-2.41962	-6.4815	-0.07066	1.63375	0.568
Asta 224 (134-133)	254	minimi	0.00	-95.14137	-2.46894	-7.16773	-0.08509	10.12586	-2.744
Asta 224 (134-133)	254	minimi	66.00	-96.17262	-2.46894	-7.16773	-0.08509	5.84807	-1.147
Asta 224 (134-133)	254	minimi	132.00	-97.20387	-2.46894	-7.16773	-0.08509	1.57029	0.45
Asta 225 (139-138)	255	massimi	0.00	-91.17683	1.53335	-1.82632	-0.93621	3.55875	3.534
Asta 225 (139-138)	255	massimi	66.00	-92.20808	1.53335	-1.82632	-0.93621	2.17416	2.538
Asta 225 (139-138)	255	massimi	132.00	-93.23933	1.53335	-1.82632	-0.93621	0.78957	1.542
Asta 225 (139-138)	255	minimi	0.00	-94.39244	1.50967	-2.09786	-1.0204	3.10347	3.534
Asta 225 (139-138)	255	minimi	66.00	-95.42369	1.50967	-2.09786	-1.0204	1.8981	2.522
Asta 225 (139-138)	255	minimi	132.00	-96.45494	1.50967	-2.09786	-1.0204	0.69273	1.51
Asta 226 (144-143)	256	massimi	0.00	-51.07602	-6.42796	-29.06633	0.51637	25.1118	-14.389
Asta 226 (144-143)	256	massimi	66.00	-52.10727	-6.42796	-29.06633	0.51637	4.5455	-10.146
Asta 226 (144-143)	256	massimi	132.00	-53.13852	-6.42796	-29.06633	0.51637	-14.94036	-5.904
Asta 226 (144-143)	256	minimi	0.00	-53.839	-6.96034	-31.16106	0.50522	23.42719	-15.561
Asta 226 (144-143)	256	minimi	66.00	-54.87025	-6.96034	-31.16106	0.50522	4.24341	-10.967
Asta 226 (144-143)	256	minimi	132.00	-55.9015	-6.96034	-31.16106	0.50522	-16.0208	-6.373
Asta 227 (149-148)	257	massimi	0.00	-27.48672	-3.40906	-7.43712	-0.17323	12.37192	-5.818
Asta 227 (149-148)	257	massimi	66.00	-28.51797	-3.40906	-7.43712	-0.17323	7.14598	-3.568
Asta 227 (149-148)	257	massimi	132.00	-29.54922	-3.40906	-7.43712	-0.17323	1.92004	-1.318
Asta 227 (149-148)	257	minimi	0.00	-28.96348	-3.60272	-7.91809	-0.17399	11.6334	-6.137
Asta 227 (149-148)	257	minimi	66.00	-29.99473	-3.60272	-7.91809	-0.17399	6.7249	-3.759
Asta 227 (149-148)	257	minimi	132.00	-31.02598	-3.60272	-7.91809	-0.17399	1.8164	-1.381
Asta 228 (154-153)	258	massimi	0.00	-79.11587	-7.60078	-1.45076	0.95495	2.74349	-12.46
Asta 228	258	massimi	66.00	-80.14712	-7.60078	-1.45076	0.95495	1.71101	-7.443

(154-153)									
Asta 228 (154-153)	258	massimi	132.00	-81.17837	-7.60078	-1.45076	0.95495	0.67852	-2.427
Asta 228 (154-153)	258	minimi	0.00	-83.16934	-8.30877	-1.56437	0.88087	2.54126	-13.604
Asta 228 (154-153)	258	minimi	66.00	-84.20059	-8.30877	-1.56437	0.88087	1.58376	-8.121
Asta 228 (154-153)	258	minimi	132.00	-85.23184	-8.30877	-1.56437	0.88087	0.62626	-2.637
Asta 229 (159-158)	259	massimi	0.00	-81.27522	-6.71954	-0.73764	0.51881	-0.53778	-11.253
Asta 229 (159-158)	259	massimi	66.00	-82.30647	-6.71954	-0.73764	0.51881	-1.05171	-6.819
Asta 229 (159-158)	259	massimi	132.00	-83.33772	-6.71954	-0.73764	0.51881	-1.56565	-2.384
Asta 229 (159-158)	259	minimi	0.00	-88.34863	-7.29472	-0.77869	0.47709	-0.91769	-12.253
Asta 229 (159-158)	259	minimi	66.00	-89.37988	-7.29472	-0.77869	0.47709	-1.40454	-7.439
Asta 229 (159-158)	259	minimi	132.00	-90.41113	-7.29472	-0.77869	0.47709	-1.89138	-2.624
Asta 230 (5-10)	260	massimi	0.00	-65.7291	0.76166	123.06681	1.13117	-130.10818	4.562
Asta 230 (5-10)	260	massimi	630.00	-65.7291	0.76166	-1.19925	1.13117	250.27411	-0.236
Asta 230 (5-10)	260	massimi	1260.00	-65.7291	0.76166	-121.94715	1.13117	-145.21878	-4.481
Asta 230 (5-10)	260	minimi	0.00	-66.93583	0.67094	119.54864	1.01282	-133.12131	3.973
Asta 230 (5-10)	260	minimi	630.00	-66.93583	0.67094	-1.35398	1.01282	242.6924	-0.254
Asta 230 (5-10)	260	minimi	1260.00	-66.93583	0.67094	-125.77478	1.01282	-150.18149	-5.035
Asta 231 (15-5)	261	massimi	0.00	-9.7932	-1.90161	2.46761	-2.44869	3.48568	-4.143
Asta 231 (15-5)	261	massimi	237.00	-9.7932	-1.90161	-2.86489	-2.44869	2.24995	0.396
Asta 231 (15-5)	261	massimi	474.00	-9.7932	-1.90161	-8.19739	-2.44869	-10.86012	5.416
Asta 231 (15-5)	261	minimi	0.00	-10.53065	-2.11808	2.14485	-2.56366	2.71948	-4.624
Asta 231 (15-5)	261	minimi	237.00	-10.53065	-2.11808	-3.18765	-2.56366	2.24869	0.364
Asta 231 (15-5)	261	minimi	474.00	-10.53065	-2.11808	-8.52016	-2.56366	-11.62381	4.871
Asta 232 (5-165)	262	massimi	0.00	0.00	0.00	27.7888	0.00	-17.34785	0.00
Asta 232 (5-165)	262	massimi	65.00	0.00	0.00	13.8944	0.00	-4.33696	0.00
Asta 232 (5-165)	262	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 232 (5-165)	262	minimi	0.00	0.00	0.00	26.689	0.00	-18.06272	0.00
Asta 232 (5-165)	262	minimi	65.00	0.00	0.00	13.3445	0.00	-4.51568	0.00
Asta 232 (5-165)	262	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 233 (20-10)	263	massimi	0.00	-12.98465	-1.57085	-0.82992	1.43199	11.84895	-3.388

Asta 233 (20-10)	263	massimi	237.00	-12.98465	-1.57085	-6.16242	1.43199	2.08296	0.378
Asta 233 (20-10)	263	massimi	474.00	-12.98465	-1.57085	-11.49492	1.43199	-18.84099	4.639
Asta 233 (20-10)	263	minimi	0.00	-13.95716	-1.79778	-1.4646	1.41921	10.36888	-3.883
Asta 233 (20-10)	263	minimi	237.00	-13.95716	-1.79778	-6.79711	1.41921	2.05882	0.335
Asta 233 (20-10)	263	minimi	474.00	-13.95716	-1.79778	-12.12961	1.41921	-20.36933	4.058
Asta 234 (10-175)	264	massimi	0.00	0.00	0.00	27.7888	0.00	-17.34785	0.00
Asta 234 (10-175)	264	massimi	65.00	0.00	0.00	13.8944	0.00	-4.33696	0.00
Asta 234 (10-175)	264	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 234 (10-175)	264	minimi	0.00	0.00	0.00	26.689	0.00	-18.06272	0.00
Asta 234 (10-175)	264	minimi	65.00	0.00	0.00	13.3445	0.00	-4.51568	0.00
Asta 234 (10-175)	264	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 235 (15-20)	265	massimi	0.00	-37.01231	1.28649	199.36572	1.53266	-159.31338	7.894
Asta 235 (15-20)	265	massimi	630.00	-37.01231	1.28649	-1.18414	1.53266	455.17262	-0.211
Asta 235 (15-20)	265	massimi	1260.00	-37.01231	1.28649	-193.35094	1.53266	-174.23355	-7.424
Asta 235 (15-20)	265	minimi	0.00	-40.32303	1.1449	190.98265	1.36096	-168.79467	7.001
Asta 235 (15-20)	265	minimi	630.00	-40.32303	1.1449	-1.28087	1.36096	438.55194	-0.212
Asta 235 (15-20)	265	minimi	1260.00	-40.32303	1.1449	-201.92746	1.36096	-184.93364	-8.316
Asta 236 (30-15)	266	massimi	0.00	-15.13943	-1.66591	6.00575	-0.44626	-5.2101	-4.312
Asta 236 (30-15)	266	massimi	237.00	-15.13943	-1.66591	0.67325	-0.44626	2.61512	-0.364
Asta 236 (30-15)	266	massimi	474.00	-15.13943	-1.66591	-4.65925	-0.44626	-2.10829	3.951
Asta 236 (30-15)	266	minimi	0.00	-16.52657	-1.84385	5.94772	-0.5006	-5.29949	-4.789
Asta 236 (30-15)	266	minimi	237.00	-16.52657	-1.84385	0.61522	-0.5006	2.56698	-0.419
Asta 236 (30-15)	266	minimi	474.00	-16.52657	-1.84385	-4.71728	-0.5006	-2.29397	3.584
Asta 237 (15-170)	267	massimi	0.00	0.00	0.00	42.1226	0.00	-26.10205	0.00
Asta 237 (15-170)	267	massimi	65.00	0.00	0.00	21.0613	0.00	-6.52551	0.00
Asta 237 (15-170)	267	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 237 (15-170)	267	minimi	0.00	0.00	0.00	40.157	0.00	-27.37969	0.00
Asta 237 (15-170)	267	minimi	65.00	0.00	0.00	20.0785	0.00	-6.84492	0.00
Asta 237 (15-170)	267	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 238 (35-20)	268	massimi	0.00	-22.25354	-1.4365	4.25413	-0.25004	-0.32601	-3.871
Asta 238 (35-20)	268	massimi	237.00	-22.25354	-1.4365	-1.07837	-0.25004	2.95162	-0.466
Asta 238 (35-20)	268	massimi	474.00	-22.25354	-1.4365	-6.41087	-0.25004	-6.00213	3.295
Asta 238 (35-20)	268	minimi	0.00	-24.29357	-1.60659	4.04922	-0.29071	-0.89065	-4.32
Asta 238 (35-20)	268	minimi	237.00	-24.29357	-1.60659	-1.28328	-0.29071	2.87263	-0.513
Asta 238 (35-20)	268	minimi	474.00	-24.29357	-1.60659	-6.61579	-0.29071	-6.40878	2.938

Asta 239 (20-180)	269	massimi	0.00	0.00	0.00	42.1226	0.00	-26.10205	0.00
Asta 239 (20-180)	269	massimi	65.00	0.00	0.00	21.0613	0.00	-6.52551	0.00
Asta 239 (20-180)	269	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 239 (20-180)	269	minimi	0.00	0.00	0.00	40.157	0.00	-27.37969	0.00
Asta 239 (20-180)	269	minimi	65.00	0.00	0.00	20.0785	0.00	-6.84492	0.00
Asta 239 (20-180)	269	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 240 (30-35)	270	massimi	0.00	-31.47902	0.64445	198.54576	0.82581	-148.11998	3.984
Asta 240 (30-35)	270	massimi	630.00	-31.47902	0.64445	-1.98759	0.82581	461.73174	-0.066
Asta 240 (30-35)	270	massimi	1260.00	-31.47902	0.64445	-194.15438	0.82581	-173.16359	-3.674
Asta 240 (30-35)	270	minimi	0.00	-34.45547	0.57276	190.17921	0.71891	-157.0698	3.543
Asta 240 (30-35)	270	minimi	630.00	-34.45547	0.57276	-2.10083	0.71891	444.68362	-0.076
Asta 240 (30-35)	270	minimi	1260.00	-34.45547	0.57276	-202.74742	0.71891	-183.54026	-4.136
Asta 241 (45-30)	271	massimi	0.00	-14.35708	-0.03668	5.92868	-0.07368	-5.41225	-0.793
Asta 241 (45-30)	271	massimi	237.00	-14.35708	-0.03668	0.59618	-0.07368	2.19368	-0.706
Asta 241 (45-30)	271	massimi	474.00	-14.35708	-0.03668	-4.73632	-0.07368	-2.7124	-0.619
Asta 241 (45-30)	271	minimi	0.00	-15.69765	-0.05511	5.87091	-0.08303	-5.53828	-0.902
Asta 241 (45-30)	271	minimi	237.00	-15.69765	-0.05511	0.53841	-0.08303	2.1828	-0.771
Asta 241 (45-30)	271	minimi	474.00	-15.69765	-0.05511	-4.79409	-0.08303	-2.86019	-0.64
Asta 242 (30-190)	272	massimi	0.00	0.00	0.00	42.1226	0.00	-26.10205	0.00
Asta 242 (30-190)	272	massimi	65.00	0.00	0.00	21.0613	0.00	-6.52551	0.00
Asta 242 (30-190)	272	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 242 (30-190)	272	minimi	0.00	0.00	0.00	40.157	0.00	-27.37969	0.00
Asta 242 (30-190)	272	minimi	65.00	0.00	0.00	20.0785	0.00	-6.84492	0.00
Asta 242 (30-190)	272	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 243 (50-35)	273	massimi	0.00	-22.28565	0.1583	5.93677	-0.07577	-5.20418	-0.268
Asta 243 (50-35)	273	massimi	237.00	-22.28565	0.1583	0.60427	-0.07577	2.42571	-0.643
Asta 243 (50-35)	273	massimi	474.00	-22.28565	0.1583	-4.72823	-0.07577	-2.46118	-1.018
Asta 243 (50-35)	273	minimi	0.00	-24.43255	0.15561	5.86862	-0.08563	-5.32542	-0.343
Asta 243 (50-35)	273	minimi	237.00	-24.43255	0.15561	0.53612	-0.08563	2.38543	-0.711
Asta 243 (50-35)	273	minimi	474.00	-24.43255	0.15561	-4.79639	-0.08563	-2.66299	-1.08
Asta 244 (35-185)	274	massimi	0.00	0.00	0.00	42.1226	0.00	-26.10205	0.00
Asta 244 (35-185)	274	massimi	65.00	0.00	0.00	21.0613	0.00	-6.52551	0.00
Asta 244 (35-185)	274	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 244 (35-185)	274	minimi	0.00	0.00	0.00	40.157	0.00	-27.37969	0.00
Asta 244 (35-185)	274	minimi	65.00	0.00	0.00	20.0785	0.00	-6.84492	0.00

Asta 244 (35-185)	274	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 245 (45-50)	275	massimi	0.00	-31.51724	-0.35387	198.28502	0.33838	-146.68376	-2.384
Asta 245 (45-50)	275	massimi	630.00	-31.51724	-0.35387	-2.22592	0.33838	461.65053	-0.155
Asta 245 (45-50)	275	massimi	1260.00	-31.51724	-0.35387	-194.39272	0.33838	-174.73037	2.193
Asta 245 (45-50)	275	minimi	0.00	-34.51913	-0.37376	189.94087	0.29325	-155.50831	-2.517
Asta 245 (45-50)	275	minimi	630.00	-34.51913	-0.37376	-2.36158	0.29325	444.61834	-0.162
Asta 245 (45-50)	275	minimi	1260.00	-34.51913	-0.37376	-203.00817	0.29325	-185.26417	2.074
Asta 246 (75-45)	276	massimi	0.00	-12.36674	1.16754	5.81597	0.1453	-4.99672	2.34
Asta 246 (75-45)	276	massimi	237.00	-12.36674	1.16754	0.48347	0.1453	2.37166	-0.371
Asta 246 (75-45)	276	massimi	474.00	-12.36674	1.16754	-4.84903	0.1453	-2.80153	-2.952
Asta 246 (75-45)	276	minimi	0.00	-13.51056	1.08899	5.76349	0.13611	-5.09318	2.21
Asta 246 (75-45)	276	minimi	237.00	-13.51056	1.08899	0.43099	0.13611	2.34373	-0.427
Asta 246 (75-45)	276	minimi	474.00	-13.51056	1.08899	-4.90151	0.13611	-2.95384	-3.195
Asta 247 (45-195)	277	massimi	0.00	0.00	0.00	42.1226	0.00	-26.10205	0.00
Asta 247 (45-195)	277	massimi	65.00	0.00	0.00	21.0613	0.00	-6.52551	0.00
Asta 247 (45-195)	277	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 247 (45-195)	277	minimi	0.00	0.00	0.00	40.157	0.00	-27.37969	0.00
Asta 247 (45-195)	277	minimi	65.00	0.00	0.00	20.0785	0.00	-6.84492	0.00
Asta 247 (45-195)	277	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 248 (80-50)	278	massimi	0.00	-19.46446	1.50162	6.4523	0.00073	-6.13112	3.164
Asta 248 (80-50)	278	massimi	237.00	-19.46446	1.50162	1.1198	0.00073	2.58231	-0.357
Asta 248 (80-50)	278	massimi	474.00	-19.46446	1.50162	-4.2127	0.00073	-1.08278	-3.644
Asta 248 (80-50)	278	minimi	0.00	-21.24227	1.38707	6.32398	-0.00334	-6.39062	2.93
Asta 248 (80-50)	278	minimi	237.00	-21.24227	1.38707	0.99148	-0.00334	2.53771	-0.395
Asta 248 (80-50)	278	minimi	474.00	-21.24227	1.38707	-4.34102	-0.00334	-1.43149	-3.954
Asta 249 (50-200)	279	massimi	0.00	0.00	0.00	42.1226	0.00	-26.10205	0.00
Asta 249 (50-200)	279	massimi	65.00	0.00	0.00	21.0613	0.00	-6.52551	0.00
Asta 249 (50-200)	279	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 249 (50-200)	279	minimi	0.00	0.00	0.00	40.157	0.00	-27.37969	0.00
Asta 249 (50-200)	279	minimi	65.00	0.00	0.00	20.0785	0.00	-6.84492	0.00
Asta 249 (50-200)	279	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 250 (75-80)	280	massimi	0.00	-33.96864	-0.85595	198.852	-0.10412	-154.23983	-5.567
Asta 250 (75-80)	280	massimi	630.00	-33.96864	-0.85595	-1.71824	-0.10412	457.1327	-0.175
Asta 250 (75-80)	280	massimi	1260.00	-33.96864	-0.85595	-193.88503	-0.10412	-175.8896	5.721
Asta 250 (75-80)	280	minimi	0.00	-37.06518	-0.94114	190.44856	-0.11422	-163.5981	-6.137

Asta 250 (75-80)	280	minimi	630.00	-37.06518	-0.94114	-1.7946	-0.11422	440.26069	-0.208
Asta 250 (75-80)	280	minimi	1260.00	-37.06518	-0.94114	-202.44119	-0.11422	-186.21004	5.218
Asta 251 (105-75)	281	massimi	0.00	-7.07879	1.88485	7.77056	2.06171	-9.20162	5.078
Asta 251 (105-75)	281	massimi	237.00	-7.07879	1.88485	2.43806	2.06171	2.24666	0.611
Asta 251 (105-75)	281	massimi	474.00	-7.07879	1.88485	-2.89444	2.06171	1.69993	-3.493
Asta 251 (105-75)	281	minimi	0.00	-7.60866	1.71365	7.49675	1.98165	-9.85647	4.629
Asta 251 (105-75)	281	minimi	237.00	-7.60866	1.71365	2.16425	1.98165	2.24074	0.568
Asta 251 (105-75)	281	minimi	474.00	-7.60866	1.71365	-3.16825	1.98165	1.05692	-3.856
Asta 252 (75-205)	282	massimi	0.00	0.00	0.00	42.1226	0.00	-26.10205	0.00
Asta 252 (75-205)	282	massimi	65.00	0.00	0.00	21.0613	0.00	-6.52551	0.00
Asta 252 (75-205)	282	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 252 (75-205)	282	minimi	0.00	0.00	0.00	40.157	0.00	-27.37969	0.00
Asta 252 (75-205)	282	minimi	65.00	0.00	0.00	20.0785	0.00	-6.84492	0.00
Asta 252 (75-205)	282	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 253 (110-80)	283	massimi	0.00	-11.19122	1.56054	10.22511	-1.49118	-14.6518	3.712
Asta 253 (110-80)	283	massimi	237.00	-11.19122	1.56054	4.89261	-1.49118	2.12853	0.015
Asta 253 (110-80)	283	massimi	474.00	-11.19122	1.56054	-0.43989	-1.49118	7.39251	-3.27
Asta 253 (110-80)	283	minimi	0.00	-12.02353	1.386	9.74656	-1.5326	-15.79848	3.299
Asta 253 (110-80)	283	minimi	237.00	-12.02353	1.386	4.41406	-1.5326	2.11603	0.014
Asta 253 (110-80)	283	minimi	474.00	-12.02353	1.386	-0.91844	-1.5326	6.27084	-3.685
Asta 254 (80-210)	284	massimi	0.00	0.00	0.00	42.1226	0.00	-26.10205	0.00
Asta 254 (80-210)	284	massimi	65.00	0.00	0.00	21.0613	0.00	-6.52551	0.00
Asta 254 (80-210)	284	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 254 (80-210)	284	minimi	0.00	0.00	0.00	40.157	0.00	-27.37969	0.00
Asta 254 (80-210)	284	minimi	65.00	0.00	0.00	20.0785	0.00	-6.84492	0.00
Asta 254 (80-210)	284	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 255 (105-110)	285	massimi	0.00	-56.91467	-0.46195	131.14873	0.15786	-128.51591	-2.292
Asta 255 (105-110)	285	massimi	630.00	-56.91467	-0.46195	-1.67812	0.15786	273.70595	0.647
Asta 255 (105-110)	285	massimi	1260.00	-56.91467	-0.46195	-129.79702	0.15786	-149.66026	3.916
Asta 255 (105-110)	285	minimi	0.00	-59.91385	-0.51884	126.44077	0.13392	-133.81479	-2.621
Asta 255 (105-110)	285	minimi	630.00	-59.91385	-0.51884	-1.77707	0.13392	264.48644	0.618
Asta 255 (105-110)	285	minimi	1260.00	-59.91385	-0.51884	-134.70286	0.13392	-156.20583	3.528

Asta 256 (105-215)	286	massimi	0.00	0.00	0.00	27.7888	0.00	-17.34785	0.00
Asta 256 (105-215)	286	massimi	65.00	0.00	0.00	13.8944	0.00	-4.33696	0.00
Asta 256 (105-215)	286	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 256 (105-215)	286	minimi	0.00	0.00	0.00	26.689	0.00	-18.06272	0.00
Asta 256 (105-215)	286	minimi	65.00	0.00	0.00	13.3445	0.00	-4.51568	0.00
Asta 256 (105-215)	286	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 257 (110-220)	287	massimi	0.00	0.00	0.00	27.7888	0.00	-17.34785	0.00
Asta 257 (110-220)	287	massimi	65.00	0.00	0.00	13.8944	0.00	-4.33696	0.00
Asta 257 (110-220)	287	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 257 (110-220)	287	minimi	0.00	0.00	0.00	26.689	0.00	-18.06272	0.00
Asta 257 (110-220)	287	minimi	65.00	0.00	0.00	13.3445	0.00	-4.51568	0.00
Asta 257 (110-220)	287	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 258 (5-4)	288	massimi	0.00	-154.43504	64.81775	9.76899	0.89753	-11.87294	117.622
Asta 258 (5-4)	288	massimi	145.00	-160.96004	64.81775	9.76899	0.89753	1.41006	23.637
Asta 258 (5-4)	288	massimi	290.00	-167.48504	64.81775	9.76899	0.89753	15.5751	-69.891
Asta 258 (5-4)	288	minimi	0.00	-159.37577	63.8275	9.12226	0.8531	-12.75498	115.209
Asta 258 (5-4)	288	minimi	145.00	-165.90077	63.8275	9.12226	0.8531	1.35435	22.659
Asta 258 (5-4)	288	minimi	290.00	-172.42577	63.8275	9.12226	0.8531	14.58163	-70.349
Asta 259 (10-9)	289	massimi	0.00	-160.13107	-67.29995	14.71882	-0.39592	-17.82817	-129.29
Asta 259 (10-9)	289	massimi	145.00	-166.65607	-67.29995	14.71882	-0.39592	2.10412	-31.705
Asta 259 (10-9)	289	massimi	290.00	-173.18107	-67.29995	14.71882	-0.39592	23.44641	65.88
Asta 259 (10-9)	289	minimi	0.00	-165.69319	-68.73361	13.65558	-0.42293	-19.23816	-133.551
Asta 259 (10-9)	289	minimi	145.00	-172.21819	-68.73361	13.65558	-0.42293	1.97243	-33.887
Asta 259 (10-9)	289	minimi	290.00	-178.74318	-68.73361	13.65558	-0.42293	21.77302	65.777
Asta 260 (15-14)	290	massimi	0.00	-238.32455	40.59726	4.70942	0.72545	-6.37441	139.352
Asta 260 (15-14)	290	massimi	145.00	-244.84955	40.59726	4.70942	0.72545	-0.28248	80.486
Asta 260 (15-14)	290	massimi	290.00	-251.37455	40.59726	4.70942	0.72545	6.53069	23.19
Asta 260 (15-14)	290	minimi	0.00	-248.29242	37.248	4.20133	0.68063	-7.12662	131.209
Asta 260 (15-14)	290	minimi	145.00	-254.81742	37.248	4.20133	0.68063	-0.29796	77.199
Asta 260	290	minimi	290.00	-261.34242	37.248	4.20133	0.68063	5.80944	21.62

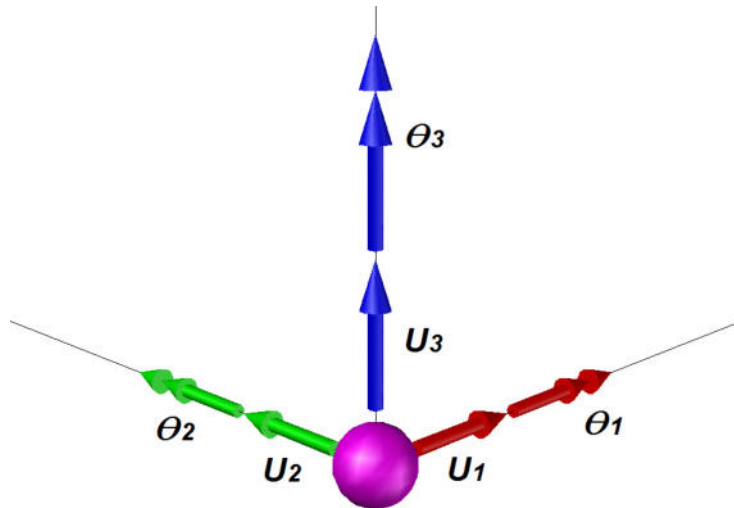
(15-14)									
Asta 261 (20-19)	291	massimi	0.00	-239.08889	-36.87796	11.6229	-1.09782	-15.01005	-146.462
Asta 261 (20-19)	291	massimi	145.00	-245.61389	-36.87796	11.6229	-1.09782	0.12814	-92.989
Asta 261 (20-19)	291	massimi	290.00	-252.13889	-36.87796	11.6229	-1.09782	16.98135	-39.449
Asta 261 (20-19)	291	minimi	0.00	-249.20125	-40.13185	10.41379	-1.13787	-16.72507	-155.831
Asta 261 (20-19)	291	minimi	145.00	-255.72625	-40.13185	10.41379	-1.13787	0.08995	-97.64
Asta 261 (20-19)	291	minimi	290.00	-262.25125	-40.13185	10.41379	-1.13787	15.18995	-39.516
Asta 262 (30-29)	292	massimi	0.00	-241.07802	36.24421	-1.35511	0.16519	1.76128	129.273
Asta 262 (30-29)	292	massimi	145.00	-247.60302	36.24421	-1.35511	0.16519	-0.33391	76.718
Asta 262 (30-29)	292	massimi	290.00	-254.12802	36.24421	-1.35511	0.16519	-2.29881	25.631
Asta 262 (30-29)	292	minimi	0.00	-251.41044	33.10825	-1.47337	0.1508	1.631	121.645
Asta 262 (30-29)	292	minimi	145.00	-257.93544	33.10825	-1.47337	0.1508	-0.3751	73.638
Asta 262 (30-29)	292	minimi	290.00	-264.46044	33.10825	-1.47337	0.1508	-2.51148	24.164
Asta 263 (35-34)	293	massimi	0.00	-243.3619	-29.88422	0.78343	-0.82178	-1.05343	-147.236
Asta 263 (35-34)	293	massimi	145.00	-249.8869	-29.88422	0.78343	-0.82178	-0.17339	-103.904
Asta 263 (35-34)	293	massimi	290.00	-256.4119	-29.88422	0.78343	-0.82178	0.96258	-60.572
Asta 263 (35-34)	293	minimi	0.00	-253.64747	-32.69326	0.60487	-0.89617	-1.30936	-156.366
Asta 263 (35-34)	293	minimi	145.00	-260.17247	-32.69326	0.60487	-0.89617	-0.17637	-108.96
Asta 263 (35-34)	293	minimi	290.00	-266.69747	-32.69326	0.60487	-0.89617	0.70069	-61.555
Asta 264 (45-44)	294	massimi	0.00	-240.8703	35.74177	-1.63648	0.22544	2.39836	127.90
Asta 264 (45-44)	294	massimi	145.00	-247.3953	35.74177	-1.63648	0.22544	-0.20774	76.075
Asta 264 (45-44)	294	massimi	290.00	-253.9203	35.74177	-1.63648	0.22544	-2.58063	25.707
Asta 264 (45-44)	294	minimi	0.00	-251.18533	32.64291	-1.81332	0.22355	2.16516	120.372
Asta 264 (45-44)	294	minimi	145.00	-257.71033	32.64291	-1.81332	0.22355	-0.23095	73.04
Asta 264 (45-44)	294	minimi	290.00	-264.23533	32.64291	-1.81332	0.22355	-2.86027	24.249
Asta 265 (50-49)	295	massimi	0.00	-244.75935	-30.28847	-3.17506	-1.30173	4.58103	-148.701
Asta 265 (50-49)	295	massimi	145.00	-251.28435	-30.28847	-3.17506	-1.30173	-0.53791	-104.782
Asta 265 (50-49)	295	massimi	290.00	-257.80935	-30.28847	-3.17506	-1.30173	-5.14174	-60.864
Asta 265 (50-49)	295	minimi	0.00	-255.28024	-33.17312	-3.56404	-1.41847	4.06593	-157.971
Asta 265 (50-49)	295	minimi	145.00	-261.80524	-33.17312	-3.56404	-1.41847	-0.58684	-109.87
Asta 265 (50-49)	295	minimi	290.00	-268.33024	-33.17312	-3.56404	-1.41847	-5.7547	-61.769
Asta 266 (75-74)	296	massimi	0.00	-239.5373	37.78249	-4.432	-0.05844	6.89723	134.302
Asta 266 (75-74)	296	massimi	145.00	-246.0623	37.78249	-4.432	-0.05844	-0.25855	79.517
Asta 266 (75-74)	296	massimi	290.00	-252.5873	37.78249	-4.432	-0.05844	-6.68495	25.972
Asta 266 (75-74)	296	minimi	0.00	-249.68501	34.5933	-4.96076	-0.13664	6.16785	126.292
Asta 266	296	minimi	145.00	-256.21001	34.5933	-4.96076	-0.13664	-0.29588	76.132

(75-74)									
Asta 266 (75-74)	296	minimi	290.00	-262.73501	34.5933	-4.96076	-0.13664	-7.48899	24.733
Asta 267 (80-79)	297	massimi	0.00	-241.28446	-33.96971	-9.12919	-0.98271	13.67901	-148.30
Asta 267 (80-79)	297	massimi	145.00	-247.80946	-33.96971	-9.12919	-0.98271	-0.94959	-99.044
Asta 267 (80-79)	297	massimi	290.00	-254.33446	-33.96971	-9.12919	-0.98271	-14.18692	-49.788
Asta 267 (80-79)	297	minimi	0.00	-251.45598	-37.00627	-10.15988	-1.12771	12.28773	-157.297
Asta 267 (80-79)	297	minimi	145.00	-257.98098	-37.00627	-10.15988	-1.12771	-1.05282	-103.638
Asta 267 (80-79)	297	minimi	290.00	-264.50598	-37.00627	-10.15988	-1.12771	-15.78465	-49.979
Asta 268 (105-104)	298	massimi	0.00	-160.62652	58.029	-6.61684	-2.33697	9.69861	117.814
Asta 268 (105-104)	298	massimi	145.00	-167.15152	58.029	-6.61684	-2.33697	-0.52672	33.672
Asta 268 (105-104)	298	massimi	290.00	-173.67652	58.029	-6.61684	-2.33697	-10.12114	-46.933
Asta 268 (105-104)	298	minimi	0.00	-166.70809	55.20102	-7.08982	-2.45674	9.0677	113.15
Asta 268 (105-104)	298	minimi	145.00	-173.23309	55.20102	-7.08982	-2.45674	-0.58162	33.108
Asta 268 (105-104)	298	minimi	290.00	-179.75809	55.20102	-7.08982	-2.45674	-10.86186	-50.47
Asta 269 (110-109)	299	massimi	0.00	-166.23258	-58.30067	-11.65316	0.22881	15.95634	-133.804
Asta 269 (110-109)	299	massimi	145.00	-172.75758	-58.30067	-11.65316	0.22881	-2.11136	-49.268
Asta 269 (110-109)	299	massimi	290.00	-179.28258	-58.30067	-11.65316	0.22881	-19.00845	38.60
Asta 269 (110-109)	299	minimi	0.00	-172.71678	-61.47438	-12.54237	0.20421	14.78573	-139.676
Asta 269 (110-109)	299	minimi	145.00	-179.24178	-61.47438	-12.54237	0.20421	-2.2301	-50.538
Asta 269 (110-109)	299	minimi	290.00	-185.76678	-61.47438	-12.54237	0.20421	-20.41653	35.268

1.4.6 Stato limite esercizio frequenti (SLE Frequenti)

1.4.6.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	0.001457	0.013688	-6.757865	0.000143382980997	0.000096678771988	-0.000001760436679
1	minimi	0.000116	0.013151	-7.002439	0.000133497113142	0.000094363825337	-0.000002020395688
2	massimi	-0.019775	0.04595	-6.757865	0.000143382980995	0.000096678771984	-0.000001760436678
2	minimi	-0.021636	0.043187	-7.002439	0.000133497113139	0.000094363825334	-0.000002020395688
3	massimi	-0.02116	0.047659	-6.619802	0.000088534662891	0.000189579576581	-0.00000132604692
3	minimi	-0.023241	0.044651	-6.865101	0.000081008236111	0.000183443145383	-0.000001533288961
4	massimi	-0.021345	0.043517	-6.843851	0.000087740895705	-0.000004271506668	-0.000001569384085
4	minimi	-0.023437	0.041044	-7.094645	0.000080233475463	-0.000006012473996	-0.000001792189654
5	massimi	-0.017942	0.043462	-6.561535	0.000188299362867	-0.000003031819511	-0.000001615829678
5	minimi	-0.019548	0.040994	-6.791423	0.000176774555575	-0.00000468098423	-0.000001843006743
6	massimi	-0.018127	0.047714	-6.337486	0.000187505595681	0.000188248086814	-0.000001372492513
6	minimi	-0.019744	0.044701	-6.561878	0.000175999794926	0.000182203458226	-0.000001584106049
7	massimi	0.260555	-0.059001	-6.929344	0.000216529294587	0.000262186260324	0.000016745807728
7	minimi	0.233873	-0.064834	-7.180967	0.000207024002199	0.000220415325089	0.00001246445399
8	massimi	0.448197	-0.086894	-7.017316	-0.000043821557054	0.000030700355029	0.000030361983919
8	minimi	0.386696	-0.09561	-7.270715	-0.000044249381165	0.000027627183945	0.00002171119641
9	massimi	0.571803	-0.185332	-7.077322	0.000272947110832	0.000202559860548	0.000039922277839
9	minimi	0.508255	-0.201148	-7.331966	0.000258798473481	0.000198685189242	0.000028203590024
10	massimi	0.937709	-0.387737	-7.160331	0.000178508899637	0.000597023225941	0.000095598973531
10	minimi	0.854283	-0.419058	-7.416747	0.000167023259399	0.000581469921967	0.000085658993154
11	massimi	0.054859	0.057769	-7.133422	0.000152417741229	0.00005721991745	0.000005911145143
11	minimi	0.047851	0.054879	-7.406887	0.000139888047333	0.000044787024683	0.000005419964465
12	massimi	0.041985	0.092063	-7.133422	0.000152417741227	0.000057219917449	0.00000591114514
12	minimi	0.037773	0.086354	-7.406887	0.00013988804733	0.000044787024683	0.000005419964462
13	massimi	0.047305	0.085252	-7.050253	0.000093763567623	0.000158598112502	0.000005149136529
13	minimi	0.042661	0.080093	-7.314402	0.000083886821027	0.000142383918402	0.000004727592458
14	massimi	0.046911	0.097424	-7.156591	0.000093293772226	-0.000049952800049	0.000004630414573
14	minimi	0.042291	0.091256	-7.450259	0.000083519103998	-0.000057345342546	0.000004241034297
15	massimi	0.0365	0.097531	-6.86076	0.000200140201459	-0.000048537408495	0.000004729023288
15	minimi	0.032753	0.091352	-7.127931	0.000185792757395	-0.000056046305051	0.000004329751574
16	massimi	0.036106	0.085145	-6.754422	0.000199670406062	0.000157182720948	0.000005247745244
16	minimi	0.032384	0.079997	-6.992073	0.000185425040366	0.000141084880907	0.000004816309736
17	massimi	0.267679	0.16282	-7.314927	0.000270120387981	-0.000044892173882	0.000073451835185
17	minimi	0.243314	0.161479	-7.596211	0.000254227133932	-0.000068397376725	0.000068846012967
18	massimi	0.510238	0.249243	-7.406849	-0.000128548988014	0.000218908965875	0.000126295536505
18	minimi	0.480356	0.248881	-7.690201	-0.000131562350656	0.000198812078467	0.00012026106313
19	massimi	0.712874	0.149675	-7.469629	0.000412816397285	0.000035104776761	0.000163398560837
19	minimi	0.655193	0.138612	-7.754432	0.000386656216856	0.000017655586353	0.000156360991967
20	massimi	0.861867	-0.169914	-7.555255	0.000277696199771	-0.000498485178877	0.000136919874047
20	minimi	0.779381	-0.212097	-7.842053	0.000257830746058	-0.000507107166885	0.000128801027639
21	massimi	-0.01195	0.009035	-8.379189	0.000069515868503	0.000161092700964	0.000001657977675
21	minimi	-0.017558	0.008648	-8.760594	0.000063907989978	0.000156419225469	0.000001635490892
22	massimi	-0.047145	0.024676	-8.379189	0.000069515868502	0.000161092700958	0.000001657977674
22	minimi	-0.053804	0.023028	-8.760594	0.000063907989977	0.000156419225463	0.000001635490891
23	massimi	-0.045266	0.022715	-8.047598	0.00000332333008	0.000278372910364	0.000001505566161
23	minimi	-0.051899	0.021064	-8.418499	0.000001023679317	0.000267839353745	0.000001499242502

24	massimi	-0.045365	0.02625	-8.418985	0.000002000701572	0.000029158874691	0.000001375818168
24	minimi	-0.052004	0.024629	-8.800982	-0.000000260578291	0.00002749899673	0.000001360205364
25	massimi	-0.048297	0.026112	-8.283835	0.000131830930209	0.000029752340067	0.000001265090563
25	minimi	-0.054888	0.024508	-8.653972	0.00012329594801	0.00002814453825	0.00000123383642
26	massimi	-0.048396	0.022852	-7.912448	0.000130508301701	0.000277727368843	0.000001394838556
26	minimi	-0.054994	0.021185	-8.271488	0.000122011690402	0.00026724588837	0.000001372873558
27	massimi	0.596708	-0.057135	-8.599393	0.00011449084029	0.000559294481779	0.000051666527492
27	minimi	0.531692	-0.062789	-8.992133	0.000106056363808	0.000466340637897	0.000046059905217
28	massimi	0.960529	-0.117251	-8.700691	0.000008446881801	-0.000047418757563	0.000095776562964
28	minimi	0.796784	-0.127636	-9.09577	0.000008380977967	-0.000067875034818	0.000083805657057
29	massimi	0.871559	-0.183932	-8.770053	0.000127423438416	-0.00002543930342	0.000126747438934
29	minimi	0.697306	-0.199757	-9.166774	0.000116864507478	-0.000025844668612	0.000110307993456
30	massimi	2.306204	-0.372996	-8.894566	0.000146936218875	0.001318600240184	0.000172105729397
30	minimi	2.10423	-0.403494	-9.294861	0.000135637272172	0.001279732899689	0.000157460613278
31	massimi	0.05707	0.052094	-10.393546	0.000106056363808	0.00014863309261	0.00000561572377
31	minimi	0.048595	0.049409	-10.934924	0.000094698831549	0.000127270912	0.000005183924467
32	massimi	0.023627	0.075957	-10.393546	0.000106056363806	0.000148633092606	0.000005615723768
32	minimi	0.019959	0.070717	-10.934924	0.000094698831548	0.000127270911997	0.000005183924465
33	massimi	0.028765	0.069556	-10.071622	0.00002067274218	0.000301321920012	0.000004878480726
33	minimi	0.024716	0.064801	-10.584198	0.000014077626949	0.000272371721569	0.000004507233507
34	massimi	0.02844	0.081162	-10.373802	0.000019452412865	-0.000019107448079	0.00000445050529
34	minimi	0.024413	0.075519	-10.937098	0.000013032688557	-0.000030718314566	0.000004108784498
35	massimi	0.0185	0.081222	-10.173536	0.000184726838288	-0.000018122580567	0.000004505998178
35	minimi	0.01524	0.07557	-10.712813	0.000169281090802	-0.00002983891611	0.000004155662281
36	massimi	0.018175	0.069496	-9.871356	0.000183506508973	0.0003003370525	0.000004933973614
36	minimi	0.014937	0.06475	-10.359913	0.00016823615241	0.000271492323112	0.000004554111291
37	massimi	0.596716	0.165993	-10.675727	0.000243530502865	0.00014310081558	0.000106253323896
37	minimi	0.539928	0.164435	-11.233543	0.000220736732713	0.000125248250759	0.000099304107469
38	massimi	1.344536	0.204756	-10.790018	-0.000100531442674	0.000598798972626	0.000202147182777
38	minimi	1.271282	0.202673	-11.350637	-0.000105552706086	0.000568795998331	0.000189792868882
39	massimi	2.208457	0.153456	-10.868502	0.000283945323824	0.000674921564922	0.000269476913481
39	minimi	2.084376	0.142524	-11.431089	0.000258664281355	0.000630560010666	0.00025332753115
40	massimi	2.265547	-0.150357	-10.993324	0.000279321250643	-0.000925026450856	0.000205154474449
40	minimi	2.066151	-0.191455	-11.559535	0.000255865385456	-0.000936239504412	0.000190608194102
41	massimi	0.074861	0.146144	-10.613823	-0.000099271012867	0.000090418586135	0.000019057171427
41	minimi	0.065339	0.138467	-11.127532	-0.000101468263361	0.000075441489788	0.0000178578145
42	massimi	0.061298	0.130924	-10.613823	-0.000099271012866	0.000090418586135	0.000019057171421
42	minimi	0.054023	0.123576	-11.127532	-0.000101468263359	0.000075441489789	0.000017857814495
43	massimi	0.07253	0.119204	-10.404669	-0.000165658977962	0.00016039546507	0.000017595436983
43	minimi	0.06456	0.112588	-10.902394	-0.00017129135306	0.000142161113813	0.000016495147265
44	massimi	0.072327	0.141775	-10.501216	-0.000165858787525	0.000017685341324	0.000017165643002
44	minimi	0.064368	0.133744	-11.018108	-0.000171530830014	0.000006422069262	0.000016089473812
45	massimi	0.049863	0.141871	-10.628259	-0.000028312486883	0.000017416598893	0.000017366872161
45	minimi	0.04332	0.133828	-11.147963	-0.000029657010479	0.00000615914633	0.00001626682025
46	massimi	0.04966	0.119109	-10.531712	-0.000028551963837	0.000160664207501	0.000017796666142
46	minimi	0.043128	0.112504	-11.032249	-0.000029856820042	0.000142424036746	0.000016672493702
47	massimi	0.598164	1.0617	-10.782047	0.000542078813755	-0.000244643297564	0.000106814468965
47	minimi	0.541481	1.013429	-11.304505	0.000503688677158	-0.000265488191448	0.000100256732901
48	massimi	1.949367	2.189662	-10.837985	-0.000971190001056	0.000937735480207	0.000226567702181
48	minimi	1.834916	2.081567	-11.362999	-0.001029609790323	0.000894151099852	0.000211908745279
49	massimi	2.183015	2.823043	-10.875584	0.000421156321068	-0.000910965564785	0.000310649759545
49	minimi	2.060195	2.681983	-11.402391	0.000391183910898	-0.000960955370793	0.000290302711417
50	massimi	-0.000133	0.003154	-8.576303	0.000014607741044	0.000244042621777	0.000001348925235
50	minimi	-0.00477	0.003087	-8.97696	0.000013177026003	0.000232345745675	0.000001204533245
51	massimi	-0.052411	0.006441	-8.576303	0.000014607741043	0.000244042621769	0.000001348925235
51	minimi	-0.05968	0.006052	-8.97696	0.000013177026003	0.000232345745667	0.000001204533245
52	massimi	-0.050949	0.004913	-8.095308	-0.000049109381838	0.000360311625492	0.000001215328809
52	minimi	-0.058036	0.004686	-8.472156	-0.000050959193669	0.000342823262497	0.000001085050151
53	massimi	-0.050974	0.007868	-8.646968	-0.000051017023246	0.000103059971662	0.000001179037706
53	minimi	-0.058064	0.007323	-9.051587	-0.0000529628706	0.000098339098737	0.000001050949471
54	massimi	-0.05315	0.007715	-8.619101	0.00008108562678	0.000103195622752	0.000001038868477
54	minimi	-0.060502	0.007189	-9.020695	0.000076385373379	0.000098461463855	0.000000927852789
55	massimi	-0.053176	0.005065	-8.067441	0.000079081949848	0.000360175974402	0.00000107515958
55	minimi	-0.06053	0.00482	-8.441263	0.000074477731971	0.00034270089738	0.000000961953469
56	massimi	0.879604	-0.053669	-8.801836	0.000022932816381	0.000660473923308	0.000030378116879
56	minimi	0.790687	-0.059021	-9.214368	0.000020988407112	0.00055905760918	0.000028305450515
57	massimi	1.509182	-0.129301	-8.906059	0.000052108622826	0.000124310268035	0.000065728427695
57	minimi	1.300812	-0.140896	-9.321225	0.000048255896781	0.000090967818505	0.000061412337957
58	massimi	1.659562	-0.182744	-8.977474	0.000029357376234	0.000160241776944	0.000090548858693

58	minimi	1.42305	-0.198587	-9.39449	0.000027187848811	0.00014715734211	0.000084657599353
59	massimi	3.595107	-0.350759	-9.103207	0.000051328266945	0.001443329869217	0.000099028524041
59	minimi	3.293545	-0.37971	-9.523927	0.0000471899119	0.001393441220448	0.000092561295484
60	massimi	0.057657	0.040912	-11.531307	0.000006788511187	0.000200624939573	0.000002545471154
60	minimi	0.049195	0.038933	-12.207712	0.000002789828724	0.00017761770485	0.000002404183308
61	massimi	0.012516	0.04244	-11.531307	0.000006788511187	0.000200624939568	0.000002545471153
61	minimi	0.009231	0.03956	-12.207712	0.000002789828724	0.000177617704845	0.000002404183307
62	massimi	0.01485	0.039478	-11.019957	-0.0000883487341644	0.000370478812444	0.0000022311742751
62	minimi	0.011452	0.036764	-11.653971	-0.000085072810062	0.000337851862872	0.000002109434216
63	massimi	0.014668	0.044734	-11.441676	-0.000084945644692	0.000010454265	0.000001992617831
63	minimi	0.011283	0.041734	-12.130316	-0.000086720010499	-0.000000603367939	0.000001886533204
64	massimi	0.010197	0.044766	-11.435776	0.000099789222762	0.000010517304915	0.000002022013545
64	minimi	0.007057	0.041758	-12.11596	0.000090316610839	-0.000000577460849	0.000001908214881
65	massimi	0.010015	0.039446	-11.014057	0.000098142022325	0.000370415772529	0.000002261138465
65	minimi	0.006888	0.03674	-11.639615	0.000088858307791	0.000337825955783	0.000002131115894
66	massimi	0.88244	0.172786	-11.849018	0.00005743525692	0.000368022585476	0.000067448783829
66	minimi	0.801473	0.170725	-12.54628	0.000048963225432	0.000359186713113	0.000063260054521
67	massimi	1.980784	0.191501	-11.97751	-0.000022174132021	0.000768179186849	0.000118579584279
67	minimi	1.850265	0.188247	-12.678099	-0.000023629821113	0.000726385232265	0.000110638526428
68	massimi	3.114397	0.159518	-12.065965	0.000107323438637	0.00093351714828	0.00015447993353
68	minimi	2.917692	0.148873	-12.76889	0.000095473134992	0.000876058613941	0.000143904262023
69	massimi	3.560653	-0.117673	-12.19296	0.000120111178884	-0.000865459376904	0.000108108725271
69	minimi	3.261409	-0.156495	-12.899572	0.000108403552704	-0.00086842511889	0.000100510949234
70	massimi	0.085043	0.119282	-13.035351	0.000003585859945	0.000289501200468	0.000005500904701
70	minimi	0.073495	0.113214	-13.744186	-0.000001371365194	0.000249116442767	0.000004796672997
71	massimi	0.041617	0.11982	-13.035351	0.000003585859945	0.000289501200465	0.000005500904699
71	minimi	0.036127	0.113008	-13.744186	-0.000001371365194	0.000249116442764	0.000004796672995
72	massimi	0.044844	0.116183	-12.754167	-0.000085343791785	0.000374351671092	0.000005174344044
72	minimi	0.038948	0.109809	-13.433441	-0.000085465445332	0.000329762410805	0.000004526183433
73	massimi	0.044658	0.122662	-13.072976	-0.000086110546372	0.000195825428932	0.000004781001504
73	minimi	0.038772	0.115458	-13.803932	-0.000086125239402	0.000160876283181	0.000004155201078
74	massimi	0.038301	0.122726	-13.074731	0.000093172953094	0.000195834926214	0.000004917622199
74	minimi	0.033242	0.115514	-13.799343	0.000083424314403	0.00016087265107	0.000004273798496
75	massimi	0.038115	0.116119	-12.755922	0.000092406198507	0.00037434217381	0.00000531096474
75	minimi	0.033067	0.109753	-13.428851	0.000082764520333	0.000329766042916	0.000004644780851
76	massimi	0.8866	1.067912	-13.251559	0.00040567862538	-0.00035848163638	0.000057160555565
76	minimi	0.806145	1.019311	-13.973232	0.000376469545608	-0.000433059755154	0.00005312063123
77	massimi	2.691985	2.216723	-13.333358	-0.000927754073575	0.001305255061269	0.000143110886459
77	minimi	2.538858	2.107095	-14.058296	-0.000982960413834	0.001222426900186	0.000133451312285
78	massimi	3.080676	2.84161	-13.389114	0.000354065166253	-0.00117892929957	0.00020345899113
78	minimi	2.886222	2.699433	-14.116345	0.000328987267785	-0.001233186095433	0.000189853705366
79	massimi	-0.014404	-0.001165	-8.574783	0.00000579476442	0.000237141365663	-0.000004693156926
79	minimi	-0.019819	-0.001327	-8.975159	0.000005319387733	0.000225344943467	-0.000005046931779
80	massimi	-0.065107	0.000032	-8.574783	0.00000579476442	0.000237141365655	-0.000004693156924
80	minimi	-0.073176	-0.000023	-8.975159	0.000005319387733	0.000225344943459	-0.000005046931776
81	massimi	-0.068963	0.005126	-8.093834	-0.00005668944066	0.000353690224366	-0.000003844834568
81	minimi	-0.077302	0.004823	-8.46928	-0.000059456155678	0.000336116259591	-0.000004131111085
82	massimi	-0.068964	-0.00476	-8.628871	-0.000058539602986	0.000096577735215	-0.000003845013393
82	minimi	-0.077302	-0.005172	-9.032326	-0.000061403170836	0.000091753452693	-0.000004130980671
83	massimi	-0.060384	-0.004926	-8.617622	0.000072559224767	0.000096631546828	-0.000003997928934
83	minimi	-0.068077	-0.005359	-9.020072	0.000068780463896	0.000091802849841	-0.000004302847756
84	massimi	-0.060385	0.005313	-8.082584	0.000070612209609	0.000353636412753	-0.000003997750109
84	minimi	-0.068076	0.004989	-8.457026	0.00006693030157	0.000336066862443	-0.00000430297817
85	massimi	0.858718	-0.049494	-8.800201	0.000016061411131	0.000667241383576	-0.000029041383038
85	minimi	0.769531	-0.054493	-9.21244	0.000014757380742	0.000564971155676	-0.000030649506269
86	massimi	1.520874	-0.127595	-8.904385	0.000056521599211	0.000149928845285	-0.000046742437934
86	minimi	1.309335	-0.139193	-9.319255	0.000052205604902	0.000114500872408	-0.000049262851683
87	massimi	1.709171	-0.180955	-8.975774	0.000022104826186	0.000190952632368	-0.000059170838179
87	minimi	1.466459	-0.196787	-9.39249	0.000020694405575	0.000175433981576	-0.000062331796336
88	massimi	3.724531	-0.329726	-9.101407	0.000035888908809	0.001463847470815	-0.000045481870143
88	minimi	3.410181	-0.357182	-9.521821	0.000033368788255	0.001412062438941	-0.000048718388335
89	massimi	0.037925	0.029629	-11.731373	-0.000041316643645	0.000198497908245	-0.000001696125277
89	minimi	0.030533	0.028409	-12.42908	-0.000042376271877	0.000175433276963	-0.00000184403499
90	massimi	-0.006737	0.020094	-11.731373	-0.000041316643644	0.000198497908239	-0.000001696125277
90	minimi	-0.00894	0.019112	-12.42908	-0.000042376271876	0.000175433276958	-0.000001844034989
91	massimi	-0.008335	0.021843	-11.170268	-0.000127588470479	0.000371754625269	-0.00000135286182
91	minimi	-0.01039	0.020712	-11.819559	-0.000134216946483	0.000338757618622	-0.000001476268657
92	massimi	-0.008421	0.018029	-11.5868	-0.000129028838616	0.000005139788828	-0.000001460549651
92	minimi	-0.010471	0.017212	-12.290854	-0.000135846683254	-0.000005656767743	-0.000001589489122

93	massimi	-0.004964	0.018012	-11.674175	0.000054264068615	0.000004746271533	-0.000001481546092
93	minimi	-0.007289	0.017189	-12.38047	0.000049486215649	-0.000006040445049	-0.000001605312305
94	massimi	-0.00505	0.02186	-11.257643	0.000052634331844	0.000372148142565	-0.000001373858261
94	minimi	-0.007371	0.020735	-11.909175	0.000048045847512	0.000339141295929	-0.00000149209184
95	massimi	0.858079	0.181118	-12.054262	-0.000014995456848	0.000409300025195	0.000031970481766
95	minimi	0.777037	0.17842	-12.773401	-0.000015785574925	0.000397240787934	0.000030614288417
96	massimi	1.994578	0.187768	-12.184431	0.000011593526358	0.000780086160128	0.00004150688394
96	minimi	1.860421	0.18362	-12.907105	0.000006447095552	0.000737031745358	0.000039685410894
97	massimi	3.155999	0.167717	-12.274065	0.000027610340309	0.000969951744411	0.00004820265568
97	minimi	2.953488	0.157505	-12.99922	0.000024232923952	0.000910127287543	0.000046054496889
98	massimi	3.690052	-0.085173	-12.401642	0.000063837392221	-0.000846409538533	-0.00002276877348
98	minimi	3.37804	-0.121601	-13.130569	0.00005812129245	-0.00084737548028	-0.000025294235168
99	massimi	0.068854	0.065027	-14.21129	-0.000283777545746	0.000021558073815	0.000003573724109
99	minimi	0.058165	0.062196	-14.991045	-0.000300517796705	-0.000005118190841	0.00000201279192
100	massimi	0.06562	0.01995	-14.21129	-0.000283777545742	0.000021558073817	0.000003573724108
100	minimi	0.058933	0.01963	-14.991045	-0.000300517796701	-0.000005118190839	0.000002012791919
101	massimi	0.066615	0.018737	-13.900646	-0.000371889255083	0.000118556945183	0.000003213667163
101	minimi	0.060878	0.017485	-14.645038	-0.000393634111027	0.000087014364825	0.000001771372231
102	massimi	0.066584	0.021644	-13.894096	-0.000371875699366	-0.000076097984767	0.000003149226838
102	minimi	0.060848	0.021029	-14.672628	-0.000393691208379	-0.000097094720987	0.000001705882072
103	massimi	0.064221	0.021736	-14.257263	-0.000187028573995	-0.000076893917215	0.000003342691296
103	minimi	0.056628	0.021131	-15.057218	-0.000198183248629	-0.000097846316264	0.000001921298195
104	massimi	0.06419	0.018635	-14.263813	-0.000187015018278	0.000119352877631	0.000003407131621
104	minimi	0.056597	0.017394	-15.029629	-0.000198240345981	0.000087765960102	0.000001986788355
105	massimi	0.857514	1.081268	-14.458137	0.000028321354325	-0.000225301229076	-0.000020893166676
105	minimi	0.777264	1.031939	-15.252567	0.00002696150094	-0.000297379961121	-0.000022559404729
106	massimi	2.627586	2.145955	-14.576231	-0.00018137714758	0.001186369383733	-0.000371750121004
106	minimi	2.476709	2.041945	-15.374807	-0.000210072757477	0.001108335938486	-0.000393734428353
107	massimi	3.115246	2.877978	-14.633169	-0.000070276107969	-0.001014869932911	-0.000000393880932
107	minimi	2.915464	2.733632	-15.434343	-0.000074690245854	-0.001059526344355	-0.000001151982856
108	massimi	0.076918	0.010388	-1.510419	-0.000443356483196	-0.001045701424253	0.000005028877638
108	minimi	0.071689	0.010279	-1.579998	-0.000464764970505	-0.001098770926874	0.000004946668996
109	massimi	1.120266	0.81711	-1.606811	-0.000139904060094	0.000983678918914	-0.000073656236023
109	minimi	1.053961	0.779266	-1.680764	-0.000147480743104	0.000930952595901	-0.000077213420322
110	massimi	1.611801	0.853606	-1.672996	0.000114199618286	-0.000892900238693	-0.00013049258312729
110	minimi	1.517478	0.811046	-1.750112	0.000110418729866	-0.000940563354072	-0.000136680928079
111	massimi	0.075989	0.001112	-0.497272	-0.000194940495507	0.000305567434114	0.0000051570704
111	minimi	0.070862	0.000841	-0.514467	-0.000203362312703	0.000292330361398	0.000005036990156
112	massimi	1.781336	0.403375	-0.538993	-0.000068771525256	0.000549943675496	-0.000019533288044
112	minimi	1.689547	0.384948	-0.557897	-0.000072841329507	0.000519035830542	-0.000020619713808
113	massimi	1.602402	0.351183	-0.565646	0.000145737792025	-0.000938388521114	-0.000037299489203
113	minimi	1.508544	0.332519	-0.585787	0.000141149608931	-0.000978867551652	-0.000039258311621
114	massimi	0.075869	0.031198	-13.706035	-0.000132066238929	-0.002371783675269	-0.000007981438116
114	minimi	0.070438	0.030216	-14.436963	-0.00014680953177	-0.002494229603818	-0.00000827357895
115	massimi	0.674323	1.086284	-14.363199	-0.000161374536035	-0.00026968204372	-0.000098103153332
115	minimi	0.605628	1.036614	-15.138684	-0.000176757626405	-0.000344867147046	-0.000104692115228
116	massimi	1.639042	2.135321	-15.038013	-0.000116705164348	0.000343002319171	-0.000172696194473
116	minimi	1.543321	2.031733	-15.809582	-0.000126174105111	0.000317217026056	-0.0001833350557
117	massimi	-0.055995	-0.004762	-8.482416	-0.000016005242316	0.000137030388136	-0.000013389562674
117	minimi	-0.064594	-0.005088	-8.870979	-0.000017396935622	0.000131404050686	-0.000014082866916
118	massimi	-0.085561	-0.008363	-8.482416	-0.000016005242316	0.00013703038813	-0.000013389562668
118	minimi	-0.095426	-0.009002	-8.870979	-0.000017396935621	0.00013140405068	-0.00001408286691
119	massimi	-0.097248	0.005574	-8.093077	-0.000076847102403	0.000256882384245	-0.000011110774148
119	minimi	-0.107682	0.0055	-8.462399	-0.000081339825725	0.000245362775052	-0.000011680281983
120	massimi	-0.097212	-0.022096	-8.40507	-0.000077925976508	0.0000041383342	-0.000011063651175
120	minimi	-0.107644	-0.023437	-8.787751	-0.000082464894066	0.000003301633392	-0.000011629558173
121	massimi	-0.072772	-0.022314	-8.438918	0.000048972393254	0.000003989705567	-0.000011264066668
121	minimi	-0.081939	-0.023681	-8.824541	0.000047112757277	0.000003140081152	-0.000011853683829
122	massimi	-0.072736	0.005818	-8.126924	0.000047847324914	0.000257043936485	-0.000011311729641
122	minimi	-0.081901	0.005719	-8.499189	0.000046033883172	0.000245511403684	-0.00001190440764
123	massimi	0.529551	-0.044843	-8.705067	-0.000027883554395	0.0005856449809	-0.000060035868523
123	minimi	0.462628	-0.049463	-9.105139	-0.000031918515308	0.000489821758921	-0.000066398735744
124	massimi	1.019239	-0.132236	-8.807647	0.000080103869871	0.000052842132938	-0.00008163932918
124	minimi	0.843599	-0.14416	-9.21018	0.000073281669814	0.000024878383803	-0.000092970087741
125	massimi	1.081986	-0.178753	-8.877908	-0.000026255171718	0.000100174525873	-0.000096807716451
125	minimi	0.884286	-0.194544	-9.282171	-0.000029672872571	0.000090707310566	-0.00011162656893
126	massimi	2.884642	-0.311586	-9.002945	-0.000011287041686	0.001424307586507	-0.000111273424675
126	minimi	2.627537	-0.337766	-9.410845	-0.000012920382726	0.001374386701615	-0.000122961975738
127	massimi	0.004887	0.019078	-11.482505	-0.000094283339686	0.000110015437982	-0.000002418237595

127	minimi	0.000429	0.018509	-12.157172	-0.000099565329097	0.000093107368514	-0.000002901821974
128	massimi	-0.019866	-0.002704	-11.482505	-0.000094283339684	0.000110015437978	-0.000002418237594
128	minimi	-0.02052	-0.003324	-12.157172	-0.000099565329095	0.000093107368511	-0.000002901821973
129	massimi	-0.022394	-0.000197	-10.97023	-0.000176877773598	0.000283158969925	-0.000002004088981
129	minimi	-0.022599	-0.000309	-11.599984	-0.000187407630925	0.000256393110694	-0.000002410663897
130	massimi	-0.022379	-0.005169	-11.191296	-0.000177642217433	-0.000074269090901	-0.000001988851922
130	minimi	-0.022588	-0.006287	-11.861194	-0.000188310895883	-0.000079607131364	-0.000002391933402
131	massimi	-0.017089	-0.005221	-11.390683	-0.000053371843426	-0.000075193680944	-0.000002037046343
131	minimi	-0.018179	-0.006338	-12.071752	-0.000003871658794	-0.000080482671453	-0.000002438592978
132	massimi	-0.017075	-0.000145	-11.169618	-0.000004275108384	0.000284083559967	-0.000002052283401
132	minimi	-0.018167	-0.000259	-11.810541	-0.000004636102628	0.000257268650782	-0.000002457323473
133	massimi	0.517752	0.189812	-11.797835	-0.000119726682187	0.00028649726995	0.000005188224361
133	minimi	0.459348	0.186456	-12.493234	-0.000127883391735	0.000282085324244	0.000004485482905
134	massimi	1.398754	0.180717	-11.924607	0.000063047741366	0.000644750736097	-0.000023507740384
134	minimi	1.302381	0.175769	-12.623249	0.0000533716441352	0.000609722694744	-0.000025204627795
135	massimi	2.40362	0.176621	-12.011856	-0.000083062051739	0.000874821067154	-0.00004365597095
135	minimi	2.248767	0.166885	-12.712775	-0.000088914334265	0.000821712870193	-0.000046050875733
136	massimi	2.847373	-0.05657	-12.137815	-0.000024848044335	-0.0008437444533	-0.000091059060786
136	minimi	2.59268	-0.091015	-12.84238	-0.000025766345447	-0.000845535030392	-0.000099258841116
137	massimi	0.050074	-0.002821	-13.296511	-0.000413039462727	-0.000534748228692	0.000007725340208
137	minimi	0.042062	-0.003748	-14.000277	-0.000435794873656	-0.000542095432328	0.00000666051789
138	massimi	0.131389	-0.064777	-13.296511	-0.000413039462721	-0.000534748228679	0.000007725340206
138	minimi	0.122274	-0.069117	-14.000277	-0.000435794873649	-0.000542095432315	0.000006660517888
139	massimi	0.13486	-0.069061	-13.250949	-0.000493670306494	-0.000440926090711	0.000006779435623
139	minimi	0.126413	-0.072747	-13.938013	-0.000520867672303	-0.000443412371749	0.000005780588876
140	massimi	0.134968	-0.060062	-12.5666	-0.000492254006124	-0.00061226883139	0.000006992083037
140	minimi	0.126513	-0.065029	-13.244261	-0.000519431912593	-0.000624252981754	0.000006007484757
141	massimi	0.126938	-0.059872	-13.095191	-0.000514253067894	-0.000613362781612	0.000007393482622
141	minimi	0.117224	-0.064825	-13.801974	-0.000338872843531	-0.00062540720052	0.00000643880509
142	massimi	0.127046	-0.069251	-13.77954	-0.000319817315222	-0.000439832140488	0.000007180835208
142	minimi	0.117325	-0.072951	-14.495725	-0.000337437083822	-0.000442258152982	0.000006211909209
143	massimi	0.509133	1.091472	-13.541575	-0.000521000915508	-0.000315586663158	0.000000874036869
143	minimi	0.451944	1.041448	-14.259469	-0.000553925712534	-0.000393984794291	-0.000000306105971
144	massimi	1.826939	2.125096	-13.681072	-0.000484069106582	0.000990626248685	-0.000071340925533
144	minimi	1.722985	2.021911	-14.4002869	-0.000514253067894	0.000924825134862	-0.000074246172637
145	massimi	2.349142	2.958528	-13.733793	-0.000578737140919	-0.001026276592419	0.00002388200937
145	minimi	2.197557	2.810431	-14.458063	-0.00061561866457	-0.001073995140755	0.00002027822722
146	massimi	0.067075	0.010419	-1.442729	0.000389734317701	-0.001018837787477	0.000000355478176
146	minimi	0.061422	0.010317	-1.508407	0.000372513600419	-0.001070268793407	0.000000130724659
147	massimi	1.037006	0.107009	-1.536301	-0.000320828297819	0.000954045974968	-0.000067793806581
147	minimi	0.974507	0.099941	-1.606217	-0.00033730465745	0.000903189663245	-0.000071424586579
148	massimi	1.600568	0.852325	-1.600448	-0.000371294788564	-0.000764597761919	-0.000117070981714
148	minimi	1.506817	0.809821	-1.673428	-0.000389325440784	-0.000805370039649	-0.00012316458086
149	massimi	0.066595	0.001279	-0.469122	0.000171392818731	0.000296988316973	-0.000000283249419
149	minimi	0.061062	0.000995	-0.484257	0.000164926125981	0.000284408295656	-0.000000610754282
150	massimi	1.763236	-0.035638	-0.509174	-0.000119664454183	0.000550833739774	-0.000024086838703
150	minimi	1.672542	-0.036806	-0.525872	-0.000125881641708	0.000520195165517	-0.000025397612313
151	massimi	1.589413	0.351358	-0.53462	-0.000264952348415	-0.000935220629387	-0.000041298664801
151	minimi	1.496205	0.332688	-0.552449	-0.000276868069558	-0.000974839444205	-0.000043320417351
152	massimi	0.064548	-0.015393	-12.760725	-0.000697466139226	-0.001916884030313	0.000016546588449
152	minimi	0.058534	-0.016999	-13.431746	-0.00074114434837	-0.002011149951712	0.000014725774791
153	massimi	0.500078	1.093265	-12.99852	-0.000676735792214	-0.000385960370259	-0.000017859636479
153	minimi	0.444729	1.043118	-13.682433	-0.000718391103912	-0.000466443588348	-0.000020778638528
154	massimi	1.63422	2.119866	-13.410099	-0.000278781560146	0.000577132087762	-0.000235345825918
154	minimi	1.538783	2.016883	-14.099906	-0.000320617768124	0.000536639759055	-0.000246135653064
155	massimi	-0.137614	-0.006857	-7.689825	-0.000098653890286	0.000075049445402	0.000004578538267
155	minimi	-0.147167	-0.007111	-8.000238	-0.000106920033317	0.000065872460177	0.000004066418801
156	massimi	-0.152435	-0.029054	-7.689825	-0.000098653890284	0.000075049445396	0.000004578538265
156	minimi	-0.164053	-0.031168	-8.000238	-0.000106920033315	0.000065872460171	0.000004066418799
157	massimi	-0.147767	-0.033244	-7.313512	-0.000150194744945	0.000183764836558	0.000003930458053
157	minimi	-0.158844	-0.035888	-7.59543	-0.000160651411452	0.000170150164969	0.000003494867235
158	massimi	-0.147642	-0.024407	-7.469913	-0.000150735581328	-0.000041266033986	0.000004106074178
158	minimi	-0.158711	-0.025958	-7.773621	-0.000161267594156	-0.000045076000232	0.000003658571229
159	massimi	-0.1552	-0.024797	-7.678544	-0.000039192436587	-0.000042258919817	0.0000037207655
159	minimi	-0.167214	-0.026377	-7.999732	-0.000044574364479	-0.000045992124618	0.000003300550318
160	massimi	-0.155076	-0.032854	-7.522143	-0.00003973327297	0.000184757722389	0.000003545149375
160	minimi	-0.16708	-0.035469	-7.821542	-0.000045190547183	0.000171066289355	0.000003136846324
161	massimi	0.230046	-0.039867	-7.885969	-0.000062141375323	0.000645066772595	0.000077448861282
161	minimi	0.199344	-0.044114	-8.205064	-0.000066007741972	0.00059252931887	0.00007560637396

162	massimi	0.81324	-0.139464	-7.973991	0.000097776606992	0.000116422197734	0.000110023184852
162	minimi	0.731257	-0.153723	-8.295859	0.000093300967531	0.000102980364758	0.000109559970196
163	massimi	1.009857	-0.175904	-8.034031	-0.000076867027545	0.000251027690434	0.000133399729256
163	minimi	0.904931	-0.191639	-8.357847	-0.000080244920428	0.000224075597244	0.000132894518423
164	massimi	1.918812	-0.300923	-8.119552	-0.00004435232287	0.000837725069824	0.000002651545912
164	minimi	1.749644	-0.326512	-8.445547	-0.000045105817248	0.000804039470772	-0.000002648488566
165	massimi	-0.00941	0.011799	-9.877673	-0.000175310503727	-0.00000779726112	-0.00000193647595
165	minimi	-0.009926	0.011538	-10.42381	-0.000185849402069	-0.000008582644061	-0.000002366901826
166	massimi	-0.007479	-0.027907	-9.877673	-0.000175310503724	-0.00000779726112	-0.000001936475949
166	minimi	-0.008171	-0.030018	-10.42381	-0.000185849402065	-0.000008582644061	-0.000002366901825
167	massimi	-0.009657	-0.025686	-9.445316	-0.000242170428834	0.000142576031303	-0.00000168705401
167	minimi	-0.009947	-0.027332	-9.965654	-0.000256782582469	0.000134677917887	-0.000002053456871
168	massimi	-0.009529	-0.029688	-9.426803	-0.000242106410612	-0.00014948283038	-0.000001529814124
168	minimi	-0.009827	-0.03223	-9.945276	-0.00025671211598	-0.000158872175849	-0.000001884324716
169	massimi	-0.00533	-0.029709	-9.797545	-0.000095400610043	-0.000151110810195	-0.000001549005747
169	minimi	-0.006407	-0.032249	-10.338305	-0.000101084346006	-0.000160598022669	-0.000001901890857
170	massimi	-0.005202	-0.025665	-9.816058	-0.000095336591821	0.000144301878123	-0.000001706245632
170	minimi	-0.006287	-0.027313	-10.358683	-0.000101013879518	0.000136305897703	-0.000002071023012
171	massimi	0.159298	0.198616	-10.144242	-0.000239465507214	0.000042157687642	-0.000041938611352
171	minimi	0.13293	0.194598	-10.706848	-0.000246123570741	0.000026824065373	-0.000046624144402
172	massimi	0.521676	0.186731	-10.256749	0.000112206012997	0.000326848360188	-0.000077917996445
172	minimi	0.454527	0.182377	-10.823129	0.000103431630945	0.0003016717176741	-0.000084186185856
173	massimi	1.051364	0.186021	-10.333981	-0.000173543661757	0.000467574390207	-0.000103180117893
173	minimi	0.952284	0.176791	-10.903011	-0.000178277737505	0.000445787084837	-0.000110559534111
174	massimi	1.854663	-0.039702	-10.422227	-0.000032576977196	-0.000400318342035	-0.000087470044127
174	minimi	1.687831	-0.073218	-10.993582	-0.000033518116302	-0.000406927189068	-0.000095834396667
175	massimi	0.028762	-0.068262	-8.948365	-0.000719763348624	-0.000160469320021	-0.000016573013822
175	minimi	0.02463	-0.072755	-9.403853	-0.000758836145908	-0.000171923796171	-0.000017569571716
176	massimi	0.052832	-0.176226	-8.948365	-0.000719763348613	-0.000160469320017	-0.000016573013817
176	minimi	0.050418	-0.18658	-9.403853	-0.000758836145896	-0.000171923796166	-0.00001756957171
177	massimi	0.042064	-0.165747	-8.516647	-0.000765711545154	-0.000099243885987	-0.000015574448108
177	minimi	0.040258	-0.175472	-8.935375	-0.000807266700897	-0.000113565111956	-0.000016509547818
178	massimi	0.042353	-0.185537	-8.296626	-0.00076525619865	-0.000216802926196	-0.000014995935461
178	minimi	0.040532	-0.196451	-8.730013	-0.000806841691995	-0.000225041468486	-0.000015897046273
179	massimi	0.062961	-0.185459	-9.21775	-0.000652328868897	-0.000218812731665	-0.00001483042257
179	minimi	0.05997	-0.196369	-9.70114	-0.000687697855219	-0.000226947788213	-0.000015723609145
180	massimi	0.063251	-0.165825	-9.437771	-0.000651873522393	-0.000097234080519	-0.000015408935216
180	minimi	0.060244	-0.175554	-9.906502	-0.000687272846318	-0.000111658792229	-0.000016336110689
181	massimi	0.146531	1.100813	-9.088995	-0.0013013171497539	-0.000682148610035	-0.000170975096736
181	minimi	0.121418	1.050146	-9.552635	-0.001372886600721	-0.000771407523772	-0.000184815362308
182	massimi	1.020657	2.098857	-9.169763	-0.001147753352773	0.000768398445018	-0.00041657389112
182	minimi	0.955917	1.996672	-9.634838	-0.001200654246139	0.000705627832094	-0.000442920432994
183	massimi	1.000007	3.049314	-9.209047	-0.001192671483216	-0.001335784356193	-0.000431230322363
183	minimi	0.904574	2.897222	-9.675601	-0.001258992735898	-0.001393363171214	-0.000460302794316
184	massimi	-0.110223	0.042923	-12.243746	-0.000047813752851	0.000712097938275	0.000010832855832
184	minimi	-0.117606	0.040155	-12.930322	-0.00006328655211	0.000662656569915	0.000010295779165
185	massimi	-0.209621	0.03343	-12.243746	-0.00004781375285	0.000712097938256	0.000010832855828
185	minimi	-0.224421	0.032983	-12.930322	-0.000063286552109	0.000662656569897	0.000010295779161
186	massimi	-0.202778	0.026703	-11.675925	-0.000125276747801	0.000784891813879	0.000010360219712
186	minimi	-0.217208	0.026587	-12.314289	-0.000145110574409	0.000731562192182	0.000009842532372
187	massimi	-0.202829	0.039936	-12.523965	-0.000127031818121	0.000617596109199	0.000010250475609
187	minimi	-0.21726	0.039159	-13.225602	-0.000146996592014	0.000573550189838	0.000009734257509
188	massimi	-0.215024	0.039587	-12.585155	0.000032861891028	0.000617428492436	0.000009513750355
188	minimi	-0.230093	0.038833	-13.306594	0.000022352747034	0.000573423553353	0.00000904611621
189	massimi	-0.215075	0.027051	-11.737115	0.000031106820707	0.000785059430642	0.000009623494458
189	minimi	-0.230145	0.026913	-12.39528	0.000020466729429	0.000731688828666	0.000009154391073
190	massimi	0.215367	0.321215	-12.451403	0.00056358206339	0.001258346887126	0.000005520340772
190	minimi	0.185495	0.307037	-13.151534	0.000502052650128	0.001158235505984	0.000005509452852
191	massimi	0.482347	1.159393	-12.528455	-0.000559126024607	-0.000215628998856	0.000047575845102
191	minimi	0.41345	1.125293	-13.228246	-0.000594411882491	-0.000225714104576	0.000045302671666
192	massimi	1.024564	0.723687	-12.580878	0.001678956892534	0.001416307744739	0.000077111822638
192	minimi	0.921038	0.694961	-13.28043	0.001612141243021	0.001329839764573	0.000073234946549
193	massimi	-0.026928	0.011863	-11.429236	-0.000159551771923	-0.000463715164132	-0.000002626721065
193	minimi	-0.027749	0.01161	-12.089587	-0.000170941016409	-0.000486608071634	-0.000002720666242
194	massimi	0.045242	-0.012323	-11.429236	-0.00015955177192	-0.000463715164123	-0.000002626721064
194	minimi	0.042629	-0.013778	-12.089587	-0.000170941016406	-0.000486608071625	-0.000002720666241
195	massimi	0.043464	-0.010687	-11.518577	-0.000231272146078	-0.000383320170543	-0.000002499691499
195	minimi	0.040916	-0.012079	-12.179869	-0.000247002358219	-0.000401394971937	-0.000002592543519
196	massimi	0.043485	-0.013877	-10.925134	-0.000230043979394	-0.000529974030284	-0.000002459237395

196	minimi	0.040936	-0.015385	-11.557128	-0.000245713558827	-0.000556987164932	-0.000002547314411
197	massimi	0.0467	-0.013811	-11.129322	-0.000084195707596	-0.000530396609025	-0.00000231929406
197	minimi	0.044041	-0.015315	-11.775891	-0.000090957421649	-0.000557439908507	-0.000002398793972
198	massimi	0.046721	-0.010753	-11.722765	-0.000082967540912	-0.000382897591802	-0.000002359748165
198	minimi	0.04406	-0.012149	-12.398632	-0.000089668622257	-0.000400942228362	-0.000002444023081
199	massimi	0.168363	0.708651	-11.617953	0.000047287911454	-0.000866210168783	-0.000247675116796
199	minimi	0.141514	0.667092	-12.290725	0.000029561996092	-0.000935868732529	-0.0002661564922
200	massimi	0.884886	1.296849	-11.675922	-0.000384476901406	0.000831358970205	-0.000500132974029
200	minimi	0.81159	1.228365	-12.348326	-0.000410245401557	0.000769393461335	-0.000536376723646
201	massimi	1.032189	1.514065	-11.714945	0.000210678189933	-0.000985116600191	-0.000677390618469
201	minimi	0.932652	1.433456	-12.387091	0.000193125835504	-0.001035475028404	-0.000726105822321
202	massimi	-0.05748	0.017704	-12.07814	-0.000150364415292	-0.000333302814418	-0.000019886777401
202	minimi	-0.060313	0.017138	-12.767519	-0.000158413239593	-0.000356276991866	-0.000021261029535
203	massimi	-0.006871	-0.004851	-12.07814	-0.000150364415289	-0.000333302814413	-0.000019886777394
203	minimi	-0.007484	-0.006624	-12.767519	-0.00015841323959	-0.000356276991861	-0.000021261029528
204	massimi	-0.019291	0.007804	-12.078453	-0.000231170442756	-0.000250487572496	-0.000018240740431
204	minimi	-0.019496	0.005219	-12.78098	-0.000234384785195	-0.000268419537251	-0.000019499439416
205	massimi	-0.019281	-0.017474	-11.651905	-0.000230226830027	-0.000405957484889	-0.00001821899606
205	minimi	-0.019488	-0.018423	-12.325032	-0.00023350202042	-0.000433273518593	-0.000019483514388
206	massimi	0.005792	-0.017484	-11.854636	-0.000065918215724	-0.000406377048186	-0.00001824356481
206	minimi	0.004362	-0.018434	-12.517462	-0.000078495309504	-0.000433671764282	-0.000019506070408
207	massimi	0.0058	0.007814	-12.281183	-0.000064974602995	-0.000250068009199	-0.000018265309181
207	minimi	0.004373	0.005231	-12.973411	-0.00007761254473	-0.000268021291561	-0.000019521995436
208	massimi	-1.491996	0.320355	-12.277715	-0.000606085703128	-0.000097506926805	-0.000156034277958
208	minimi	-1.583931	0.305967	-12.979672	-0.000671178610632	-0.000114108549748	-0.000167193437467
209	massimi	-2.756122	-0.073741	-12.347981	0.000284087266316	-0.000872477718417	-0.000307418086904
209	minimi	-2.921333	-0.08608	-13.052704	0.000260805900705	-0.000919567810858	-0.000328950126442
210	massimi	-3.501908	0.754295	-12.395639	-0.001863808373113	-0.000072716773563	-0.0000413708846377
210	minimi	-3.714298	0.723856	-13.102304	-0.001936201045785	-0.000090079925141	-0.000442523971892
211	massimi	-0.028486	-0.007362	-9.175622	-0.000354338891917	-0.000612177337117	-0.000011003997409
211	minimi	-0.029972	-0.009037	-9.673901	-0.000377574915249	-0.000650013536375	-0.00001177786472
212	massimi	0.06753	-0.060512	-9.175622	-0.000354338891911	-0.000612177337105	-0.000011003997405
212	minimi	0.06334	-0.065673	-9.673901	-0.000377574915243	-0.000650013536363	-0.000011777864717
213	massimi	0.060251	-0.053718	-9.257231	-0.000407983231062	-0.000545081040266	-0.000010297263768
213	minimi	0.056539	-0.058399	-9.760009	-0.00043429886189	-0.000579897629793	-0.00001102248136
214	massimi	0.060353	-0.066905	-8.473792	-0.000406361856847	-0.000660611710613	-0.000010098614795
214	minimi	0.056633	-0.072512	-8.928148	-0.000432577277109	-0.000701224101781	-0.000010806890734
215	massimi	0.07426	-0.066807	-8.92726	-0.000291514081115	-0.000661550190213	-0.000009890682838
215	minimi	0.069627	-0.072407	-9.411353	-0.000311062368839	-0.000702224122844	-0.000010585203127
216	massimi	0.074362	-0.053817	-9.7107	-0.000289892706901	-0.000544142560666	-0.000010089331811
216	minimi	0.069721	-0.058503	-10.243213	-0.000309340784058	-0.000577987608729	-0.000010800793753
217	massimi	-1.499823	0.71675	-9.313195	-0.000716680681757	-0.000975863429132	0.000038863066405
217	minimi	-1.592193	0.674431	-9.819816	-0.000780487456008	-0.001030046257195	0.000035885161583
218	massimi	-2.775043	1.145394	-9.38982	-0.000021850066239	-0.000516082866521	0.000023590609438
218	minimi	-2.948646	1.074717	-9.90149	-0.000029186517147	-0.000550208071751	0.000023018841665
219	massimi	-3.519408	1.529529	-9.441943	-0.000693895448813	-0.000678458773487	0.000013985042574
219	minimi	-3.732619	1.447823	-9.957158	-0.00073090934373	-0.000705277493259	0.000012867394972
220	massimi	0.078748	0.001773	-11.06829	-0.000309945145907	-0.000354406832079	-0.000015024186371
220	minimi	0.072226	0.001014	-11.727787	-0.000330919635145	-0.000379736867092	-0.000016209989867
221	massimi	0.135709	-0.044719	-11.06829	-0.000309945145902	-0.000354406832069	-0.000015024186366
221	minimi	0.125387	-0.048624	-11.727787	-0.00033091963514	-0.000379736867081	-0.000016209989862
222	massimi	0.125581	-0.035539	-10.994962	-0.000376777349736	-0.000278328187845	-0.000014060906618
222	minimi	0.116002	-0.038717	-11.650835	-0.000401944139083	-0.000298821457107	-0.000015171995104
223	massimi	0.125657	-0.053603	-10.541407	-0.000375838690194	-0.000419681559312	-0.000013914103378
223	minimi	0.116072	-0.058208	-11.164863	-0.000400938392011	-0.000449076186485	-0.000015012374627
224	massimi	0.144861	-0.053408	-10.938062	-0.000234603077139	-0.000420502460442	-0.000013502483392
224	minimi	0.133872	-0.057997	-11.58836	-0.000250812956869	-0.000449952639321	-0.000014566871396
225	massimi	0.144937	-0.035733	-11.391618	-0.000233664417597	-0.000277507286715	-0.000013649286632
225	minimi	0.133941	-0.038928	-12.074332	-0.000249807209797	-0.000297945004271	-0.000014726491874
226	massimi	-0.995274	0.713851	-11.25965	-0.000338875527553	-0.000393717736747	-0.000220496271098
226	minimi	-1.052518	0.671844	-11.93226	-0.000364076092978	-0.000419355369943	-0.000237246702109
227	massimi	-1.820658	1.150995	-11.346061	-0.000189737379234	-0.000394379658489	-0.000426634261496
227	minimi	-1.919028	1.089608	-12.02072	-0.000195561289194	-0.000413401285031	-0.000457428351708
228	massimi	-2.15792	1.524101	-11.405055	-0.000386849121826	-0.000072270078887	-0.000571369446243
228	minimi	-2.280186	1.442764	-12.081152	-0.000416383370509	-0.000089900107277	-0.000612023978022
229	massimi	0.0969	-0.096992	-4.04888	-0.001625599032572	-0.000508933557355	0.000025533182377
229	minimi	0.089342	-0.102984	-4.236462	-0.001705672048487	-0.000538772681625	0.000023487434063
230	massimi	0.177716	-0.340832	-4.04888	-0.001625599032547	-0.000508933557342	0.000025533182369
230	minimi	0.165682	-0.358834	-4.236462	-0.00170567204846	-0.000538772681611	0.000023487434056

231	massimi	0.192033	-0.353541	-3.300817	-0.001624915553602	-0.00047990864524	0.000022540913476
231	minimi	0.178836	-0.372691	-3.454432	-0.001705081407653	-0.000508125175933	0.000020713649271
232	massimi	0.19259	-0.325862	-2.649505	-0.00162356762434	-0.000522443881672	0.00002371888985
232	minimi	0.179366	-0.342598	-2.764933	-0.001703654448371	-0.000552995968574	0.000021832526505
233	massimi	0.161664	-0.325605	-4.729879	-0.001578074858287	-0.000526749340556	0.000024302292984
233	minimi	0.1509	-0.342322	-4.947782	-0.001655693079798	-0.000557513503788	0.000022376424923
234	massimi	0.162221	-0.353799	-5.381192	-0.001576726929025	-0.000475603186357	0.000023124317475
234	minimi	0.151429	-0.372967	-5.637281	-0.001654266120516	-0.000503607640719	0.00002125754769
235	massimi	-0.994104	1.110225	-4.236133	-0.001368271917035	-0.000988393750158	-0.000259537989562
235	minimi	-1.051296	1.059043	-4.432705	-0.00144236688288	-0.001055666117158	-0.000277752086263
236	massimi	-1.490677	2.09235	-4.304422	-0.000835036100811	-0.000002640112134	-0.000760448627147
236	minimi	-1.579753	1.99046	-4.503676	-0.000881034769042	-0.000007555139332	-0.000809642253417
237	massimi	-2.163341	3.081405	-4.336914	-0.001329826535359	-0.001173699843477	-0.000674312568112
237	minimi	-2.285825	2.927795	-4.537403	-0.0014017726230823	-0.0012392924067	-0.000722200193441
238	massimi	-0.017106	-0.098422	0.165045	-0.000679708679359	-0.000386485460334	0.00003779331895
238	minimi	-0.018006	-0.104507	0.132962	-0.000721523898131	-0.000415556270262	0.000035339303903
239	massimi	-1.502865	1.111537	0.098938	-0.001217046129027	-0.000853468073833	-0.000088008084354
239	minimi	-1.595459	1.060216	0.067675	-0.001280540502339	-0.000901754435787	-0.000095723089831
240	massimi	-2.615401	2.21945	0.068786	-0.0003091910386	-0.000520381975151	-0.000133267724839
240	minimi	-2.777089	2.109058	0.038512	-0.000327904635714	-0.000553398061612	-0.000141117099626
241	massimi	-3.536347	3.088057	0.049378	-0.001143350907695	-0.000968806721645	-0.000165045770287
241	minimi	-3.750455	2.934189	0.019798	-0.001200057377939	-0.00101905882836	-0.000172989489482
242	massimi	0.093386	-0.020088	-8.020617	-0.000443373907531	-0.000663422813496	0.000000908508695
242	minimi	0.086001	-0.021766	-8.459689	-0.000466270155826	-0.000704773362656	0.00000088750423
243	massimi	0.199102	-0.086594	-8.020617	-0.000443373907524	-0.00066342281348	0.000000908508695
243	minimi	0.185514	-0.091707	-8.459689	-0.000466270155819	-0.000704773362638	0.00000088750423
244	massimi	0.198898	-0.086703	-8.089275	-0.000487885707198	-0.000603506634434	0.000000386738859
244	minimi	0.185372	-0.091776	-8.535887	-0.0005134693375	-0.000641275615668	0.000000336778054
245	massimi	0.199041	-0.085911	-7.240254	-0.000486128607453	-0.000703114876194	0.00000067100863
245	minimi	0.185507	-0.091029	-7.633947	-0.000511602719303	-0.000746786442238	0.000000637830666
246	massimi	0.197842	-0.085623	-7.807665	-0.000387103173322	-0.000704289168311	0.000001291438252
246	minimi	0.184292	-0.09072	-8.23066	-0.000406723577257	-0.000748021375911	0.000001280012264
247	massimi	0.197985	-0.086991	-8.656686	-0.000385346073577	-0.000602332342317	0.000000995742493
247	minimi	0.184426	-0.092085	-9.1326	-0.00040485695906	-0.000640040681994	0.00000099038564
248	massimi	-0.997125	1.204438	-8.154628	-0.000613138042656	-0.000875323154903	0.0001724254800123
248	minimi	-1.054517	1.143235	-8.602067	-0.000647788625303	-0.000933796247961	0.000163353927821
249	massimi	-1.573922	2.227048	-8.228445	-0.000491167234825	-0.000121004600836	0.000380449795038
249	minimi	-1.663378	2.111066	-8.678466	-0.000519146800204	-0.000123777552168	0.000359021781703
250	massimi	-2.165194	3.014051	-8.278596	-0.000673344597156	-0.000963534002698	0.000526509420405
250	minimi	-2.287881	2.855339	-8.730431	-0.000712253388779	-0.001024489202593	0.000496405594004
251	massimi	-0.017957	0.01176	-3.232914	-0.000478882815144	-0.001506321287315	0.000022668917215
251	minimi	-0.018917	0.011115	-3.390604	-0.000508287581284	-0.001583876051356	0.000021466011153
252	massimi	0.218664	-0.060717	-3.232914	-0.000478882815136	-0.001506321287284	0.000022668917208
252	minimi	0.207991	-0.064483	-3.390604	-0.000508287581276	-0.001583876051324	0.000021466011146
253	massimi	0.23137	-0.07312	-3.864752	-0.000491457694924	-0.001466116367993	0.00002032945538
253	minimi	0.22002	-0.077581	-4.051719	-0.000521587795301	-0.001541457136736	0.000019249729374
254	massimi	0.231471	-0.047912	-1.937024	-0.000487468147541	-0.001500606747178	0.000020541139617
254	minimi	0.220114	-0.050958	-2.02474	-0.00051739284127	-0.001578011287893	0.000019449050936
255	massimi	0.204408	-0.047588	-2.549879	-0.000455698976974	-0.001501875085943	0.000021258966842
255	minimi	0.194488	-0.050618	-2.675225	-0.000483687425773	-0.001579357506264	0.000020131839969
256	massimi	0.204508	-0.073443	-4.477607	-0.00045170942959	-0.001464848029227	0.000021047282604
256	minimi	0.194582	-0.077921	-4.702205	-0.000479492471741	-0.001540110918364	0.000019932518407
257	massimi	-1.503412	1.245576	-3.451912	-0.000775097360309	-0.001090014652951	0.000062794147464
257	minimi	-1.59597	1.172813	-3.621117	-0.000824464005452	-0.001152783208201	0.000061688740725
258	massimi	-2.574577	2.368181	-3.527584	-0.000406012384183	-0.000409044259549	0.000180873839849
258	minimi	-2.727144	2.235739	-3.701523	-0.000418480650316	-0.000433274148712	0.000172457044049
259	massimi	-3.532716	2.831802	-3.578954	-0.000307975829148	-0.001219919740201	0.000263780857907
259	minimi	-3.746675	2.703375	-3.756217	-0.000327341382681	-0.001300124809888	0.000250230533617
260	massimi	0.937709	-0.499094	-6.409772	0.000178508899637	0.000591374948172	0.000095598973531
260	minimi	0.854283	-0.543337	-6.646123	0.000167023259399	0.000575981196872	0.000085658993154
261	massimi	2.306204	-0.577695	-7.238878	0.000146936218875	0.001310146777447	0.000172105729397
261	minimi	2.10423	-0.627232	-7.588923	0.000135637272172	0.001271564594924	0.000157460613278
262	massimi	0.861867	-0.002472	-6.912576	0.000277696199771	-0.000492996453782	0.000136919874047
262	minimi	0.779381	-0.034101	-7.18832	0.000257830746058	-0.000501458889116	0.000128801027639
263	massimi	2.265547	0.097434	-9.798753	0.000279321250643	-0.000916858146091	0.000205154474449
263	minimi	2.066151	0.075246	-10.350666	0.000255865385456	-0.000927786041675	0.000190608194102
264	massimi	3.560653	0.012992	-11.075827	0.00012011178884	-0.000857291072139	0.000108108725271
264	minimi	3.261409	-0.015954	-11.778861	0.000108403552704	-0.000859971656153	0.000100510949234
265	massimi	3.595107	-0.471088	-7.299697	0.000051328266945	0.001434876406481	0.000099028524041

265	minimi	3.293545	-0.508447	-7.655841	0.0000471899119	0.001385272915683	0.000092561295484
266	massimi	3.724531	-0.2706	-7.27369	0.000035888908809	0.001455394008078	-0.000045481870143
266	minimi	3.410181	-0.293848	-7.627062	0.000033368788255	0.001403894134176	-0.000048718388335
267	massimi	3.690052	-0.114772	-11.309274	0.000063837392221	-0.000838241233768	-0.00002276877348
267	minimi	3.37804	-0.154483	-12.037223	0.00005812129245	-0.000838922017543	-0.000025294235168
268	massimi	2.884642	-0.16693	-7.224206	-0.000011287041686	0.00141585412377	-0.000111273424675
268	minimi	2.627537	-0.177915	-7.567488	-0.000012920382726	0.00136621839685	-0.000122961975738
269	massimi	2.847373	-0.174947	-11.048911	-0.000024848044335	-0.000835576148536	-0.000091059060786
269	minimi	2.59268	-0.220052	-11.751427	-0.000025766345447	-0.000837081567655	-0.000099258841116
270	massimi	1.918812	-0.30437	-7.079652	-0.00004435232287	0.000832076792055	0.000002651545912
270	minimi	1.749644	-0.323069	-7.362012	-0.000045105817248	0.000798550745677	-0.000002648488566
271	massimi	1.854663	-0.153413	-9.898573	-0.000032576977196	-0.000394670064265	-0.000087470044127
271	minimi	1.687831	-0.197803	-10.478675	-0.000033518116302	-0.000401438463973	-0.000095834396667
272	massimi	0.028238	0.010612	-7.973051	0.000072784500973	0.00007037953972	0.000004034619709
272	minimi	0.025323	0.010283	-8.545666	0.000067613271542	0.000063906585621	0.000003871143484
273	massimi	0.017681	0.02153	-7.973051	0.000072784500972	0.000070379539719	0.000004034619708
273	minimi	0.015737	0.020425	-8.545666	0.000067613271541	0.00006390658562	0.000003871143483
274	massimi	0.020038	0.019072	-7.903739	0.000017811580751	0.000123359905072	0.000003707276372
274	minimi	0.018003	0.018067	-8.469953	0.00001659906114	0.000113090304716	0.000003558697665
275	massimi	0.020005	0.023844	-7.985524	0.000017625177949	0.000015253688909	0.000003636599597
275	minimi	0.017971	0.022647	-8.560022	0.000016429802195	0.000012774705871	0.000003491646643
276	massimi	0.015239	0.023871	-7.898995	0.000125725024483	0.00001544646134	0.000003694641698
276	minimi	0.013398	0.022672	-8.466875	0.000116735583746	0.00001295378211	0.00000354330673
277	massimi	0.015206	0.019045	-7.81721	0.000125538621681	0.000123167132641	0.000003765318473
277	minimi	0.013367	0.018043	-8.376806	0.000116566324801	0.000112911228477	0.000003610357965
278	massimi	0.263108	-0.209141	-8.082027	0.000146097300832	0.000014050261303	0.000005715193817
278	minimi	0.237694	-0.222665	-8.664972	0.000138283483468	0.000013667984043	0.000004500467058
279	massimi	0.021547	0.009421	-11.44204	0.000046723564121	0.000219011809426	0.000002673270057
279	minimi	0.019806	0.008934	-12.4907	0.000042094510106	0.000197394672923	0.000002582500164
280	massimi	-0.009803	0.01643	-11.44204	0.00004672356412	0.000219011809422	0.000002673270056
280	minimi	-0.011305	0.015248	-12.4907	0.000042094510106	0.00019739467292	0.000002582500163
281	massimi	-0.008223	0.014776	-11.237256	-0.000031910869179	0.000296481762999	0.000002497714989
281	minimi	-0.009665	0.013654	-12.264849	-0.00003444489021	0.000268066845518	0.000002410047471
282	massimi	-0.008247	0.017974	-11.489873	-0.000032433676237	0.000134865389161	0.000002443780397
282	minimi	-0.00969	0.016741	-12.545132	-0.00003502495105	0.000120705021352	0.000002359991499
283	massimi	-0.011294	0.017956	-11.436002	0.000127047734549	0.00013498913824	0.000002406669407
283	minimi	-0.012844	0.016726	-12.485337	0.000115339466128	0.000120816510211	0.000002327810372
284	massimi	-0.011318	0.014794	-11.183385	0.000126467673709	0.000296358013919	0.000002460603998
284	minimi	-0.01287	0.013669	-12.205054	0.00011481665907	0.000267955356658	0.000002377866344
285	massimi	0.595556	-0.141595	-11.62008	0.000107721950424	0.000112264853619	-0.000008709399036
285	minimi	0.534863	-0.156906	-12.688833	0.000097787215619	0.000108451896563	-0.000010752795598
286	massimi	0.029183	0.005832	-11.684223	0.000005966900694	0.000326749624201	0.000003305897024
286	minimi	0.02691	0.005689	-12.758581	0.000003867089589	0.000294629087591	0.000003182809674
287	massimi	-0.017285	0.006727	-11.684223	0.000005966900693	0.000326749624196	0.000003305897023
287	minimi	-0.019829	0.006269	-12.758581	0.000003867089589	0.000294629087586	0.000003182809673
288	massimi	-0.01533	0.004724	-11.390405	-0.00007107144784	0.000404342539112	0.000003076091397
288	minimi	-0.017792	0.004342	-12.435107	-0.000076256757589	0.000365413159911	0.000002958253857
289	massimi	-0.015339	0.008687	-11.767459	-0.000071851783825	0.0002391959086	0.000003054006746
289	minimi	-0.017803	0.008154	-12.853268	-0.000077122165997	0.000214863393252	0.000002937674067
290	massimi	-0.019115	0.008656	-11.76251	0.000088874069367	0.000239211712156	0.000002988911176
290	minimi	-0.021724	0.008128	-12.845632	0.00007946807669	0.000214873635381	0.00000288093252
291	massimi	-0.019125	0.004754	-11.385456	0.000088008660959	0.000404326735556	0.000003010995828
291	minimi	-0.021735	0.004369	-12.427471	0.000078687740705	0.000365402917782	0.00000290151231
292	massimi	0.879313	-0.018677	-11.865971	0.000023407558133	0.000164199739858	0.000003758199693
292	minimi	0.794598	-0.025584	-12.960794	0.000019666853282	0.000154556078294	0.000003156067193
293	massimi	0.012023	0.000691	-11.710364	-0.000000553445714	0.000333494026632	0.000005735697291
293	minimi	0.010663	0.000486	-12.788211	-0.000001508584459	0.00030036343429	0.000005442743203
294	massimi	-0.034392	0.000465	-11.710364	-0.000000553445714	0.000333494026625	0.000005735697289
294	minimi	-0.038001	0.000403	-12.788211	-0.000001508584459	0.000300363434284	0.000005442743202
295	massimi	-0.031041	-0.0028	-11.409182	-0.000076535101577	0.000411176716969	0.000005324393745
295	minimi	-0.034464	-0.003039	-12.455961	-0.000082869997831	0.000371230494299	0.000005049845432
296	massimi	-0.031041	0.003842	-11.793575	-0.000077330625191	0.000245644935831	0.00000532307212
296	minimi	-0.034464	0.003727	-12.882753	-0.000082753269038	0.000220339943539	0.000005048318599
297	massimi	-0.037514	0.003783	-11.795505	0.000082663249129	0.000245643470009	0.00000519832326
297	minimi	-0.041286	0.003674	-12.883462	0.000074359444725	0.000220335947997	0.000004935417659
298	massimi	-0.037515	-0.002747	-11.411112	0.000081779977922	0.00041117818279	0.000005199644884
298	minimi	-0.041286	-0.00298	-12.45667	0.000073563921111	0.000371234489841	0.000004936944492
299	massimi	0.856932	-0.008249	-11.892481	0.000005232999843	0.000176609971293	0.000025521151262
299	minimi	0.772028	-0.012119	-12.990847	0.000003791141649	0.000165542170622	0.000024610516706

300	massimi	-0.026354	-0.006091	-11.653486	-0.000017948068491	0.000256210185823	0.000007769177431
300	minimi	-0.028121	-0.006811	-12.72377	-0.000018076014656	0.000228245278127	0.000007325148189
301	massimi	-0.060591	-0.008803	-11.653486	-0.000017948068491	0.000256210185817	0.000007769177429
301	minimi	-0.066552	-0.009503	-12.72377	-0.000018076014656	0.000228245278122	0.000007325148187
302	massimi	-0.056041	-0.013177	-11.388403	-0.000092559269133	0.000334610221196	0.000007220311105
302	minimi	-0.061719	-0.014144	-12.430469	-0.000099664232274	0.000299803400092	0.000006804367918
303	massimi	-0.056027	-0.00437	-11.680502	-0.000093163785154	0.000169999709649	0.000007251507967
303	minimi	-0.061704	-0.0048	-12.758356	-0.000100342814384	0.000149729211741	0.000006833265462
304	massimi	-0.064753	-0.004464	-11.703634	0.000064993815393	0.000169952173529	0.000007033030961
304	minimi	-0.070959	-0.004903	-12.781325	0.000057562794209	0.000149681336751	0.000006634357577
305	massimi	-0.06474	-0.013083	-11.411536	0.000064315233284	0.000334657757316	0.000007001834098
305	minimi	-0.070945	-0.01404	-12.453438	0.000056958278187	0.000299851275082	0.000006605460033
306	massimi	0.523836	0.04532	-11.834778	-0.000038177381917	0.000185969661014	0.0000403453072
306	minimi	0.461274	0.044631	-12.925456	-0.00004024396958	0.000174156536406	0.000037856412528
307	massimi	-0.021183	0.046705	-6.726212	0.000069680687637	0.000162457222897	-0.000001333724757
307	minimi	-0.023265	0.043826	-6.975002	0.000062915731054	0.000157409636453	-0.000001539436264
308	massimi	-0.021248	0.045718	-6.801658	0.00005967844113	0.000092169004167	-0.000001496343375
308	minimi	-0.023334	0.04297	-7.052637	0.000053316333262	0.000089962042668	-0.000001717102597
309	massimi	-0.021318	0.044637	-6.838265	0.000068708268527	0.000021848354894	-0.000001497953979
309	minimi	-0.023408	0.042025	-7.089804	0.000061966596254	0.000021198350735	-0.000001714169373
310	massimi	-0.020497	0.043505	-6.795552	0.000101134963373	-0.000016359756999	-0.000001551974715
310	minimi	-0.022468	0.041033	-7.042045	0.000093095232056	-0.000018599571187	-0.000001772285001
311	massimi	-0.019666	0.043494	-6.733751	0.000138159058878	-0.000015812792032	-0.000001502393679
311	minimi	-0.021517	0.041023	-6.975385	0.000128633366291	-0.000018008814468	-0.000001723511993
312	massimi	-0.018819	0.043467	-6.654495	0.000174609505724	-0.000015178167961	-0.000001575898422
312	minimi	-0.020548	0.040999	-6.890543	0.000163637383388	-0.000017330481882	-0.000001798460426
313	massimi	-0.017964	0.044609	-6.555139	0.000207027347285	0.000023015900968	-0.000001568554616
313	minimi	-0.01957	0.041999	-6.785711	0.000194757796316	0.000022452357152	-0.000001791414998
314	massimi	-0.018032	0.045718	-6.518327	0.000215375354528	0.000092169004167	-0.000001488804863
314	minimi	-0.019643	0.04297	-6.748324	0.000202773228805	0.000089962042668	-0.000001708854555
315	massimi	-0.018098	0.046733	-6.443086	0.000206054928176	0.00016120321648	-0.000001404325395
315	minimi	-0.019714	0.043851	-6.67091	0.000193808661516	0.000156242090379	-0.000001616681889
316	massimi	-0.018889	0.047702	-6.430035	0.000173846510531	0.000200312528294	-0.000001348772175
316	minimi	-0.020623	0.04469	-6.660577	0.000162892657906	0.000193778759513	-0.00000155680748
317	massimi	-0.019666	0.047686	-6.509276	0.000138159058878	0.000200768148055	-0.00000148404793
317	minimi	-0.021517	0.044676	-6.745404	0.000128633366291	0.000194196003556	-0.000001704798145
318	massimi	-0.020426	0.047664	-6.571092	0.000101897958566	0.000201581617599	-0.000001324848468
318	minimi	-0.022392	0.044656	-6.812079	0.000093839977539	0.000194960348551	-0.000001530632054
319	massimi	0.047248	0.088464	-7.130468	0.000073618084953	0.000129657235389	0.000004972698375
319	minimi	0.042607	0.083043	-7.404367	0.000064585234165	0.000114656407648	0.000004564478625
320	massimi	0.047097	0.091599	-7.177722	0.000063184623066	0.000054550788568	0.000005019730071
320	minimi	0.042465	0.085919	-7.459915	0.000054655253263	0.00004269785108	0.000004602482866
321	massimi	0.04696	0.094544	-7.18365	0.000073042553161	-0.00002095955989	0.000004622610001
321	minimi	0.042337	0.088618	-7.472313	0.00006413475542	-0.000029576846324	0.000004236097778
322	massimi	0.044358	0.097434	-7.106221	0.00010756865701	-0.000063235417633	0.00000460254921
322	minimi	0.039952	0.091265	-7.394321	0.00009719877823	-0.000070040720436	0.000004215437149
323	massimi	0.041753	0.097475	-7.041599	0.000146864669774	-0.000062554725879	0.000004996424206
323	minimi	0.037564	0.091302	-7.323486	0.000134791473166	-0.000069404187709	0.000004580856027
324	massimi	0.039113	0.097507	-6.958412	0.0001855088630805	-0.000061886360805	0.000004653341636
324	minimi	0.035146	0.09133	-7.233272	0.000171824500107	-0.000068802564537	0.000004261134588
325	massimi	0.036438	0.094598	-6.88697	0.00022006758199	-0.000019626537138	0.000004772502948
325	minimi	0.032695	0.088666	-7.14906	0.000204879888996	-0.0000283534064	0.000004370954966
326	massimi	0.036299	0.091599	-6.880827	0.000229200726304	0.000054550788568	0.000005003725356
326	minimi	0.032565	0.085919	-7.136427	0.000213694187308	0.00004269785108	0.000004588083584
327	massimi	0.036151	0.08841	-6.833788	0.000219492050197	0.000128324212638	0.000005122591321
327	minimi	0.032426	0.082994	-7.081114	0.000204429410251	0.000113432967724	0.000004699335813
328	massimi	0.038962	0.085155	-6.851879	0.000185099301959	0.000170185402571	0.000005137506451
328	minimi	0.035004	0.080006	-7.097165	0.000171471037896	0.000153570108304	0.000004715278354
329	massimi	0.041753	0.085209	-6.935058	0.000146864669774	0.000170721954815	0.000005033916302
329	minimi	0.037564	0.080055	-7.187371	0.000134791473166	0.000154068559281	0.000004616023394
330	massimi	0.044509	0.085227	-6.999688	0.000108020240447	0.000171534459399	0.000005086714025
330	minimi	0.040094	0.080071	-7.258214	0.000097552240441	0.000154808264203	0.000004669580915
331	massimi	-0.045272	0.023644	-8.204463	-0.000020806469517	0.000243484267536	0.000001494622722
331	minimi	-0.051904	0.021998	-8.58141	-0.000021930037511	0.000234645588513	0.000001491109337
332	massimi	-0.045308	0.024552	-8.322046	-0.000033600451354	0.000153578221165	0.000001396718945
332	minimi	-0.051942	0.022912	-8.70303	-0.000034113733566	0.00014912274895	0.00000137638432
333	massimi	-0.045344	0.02541	-8.390204	-0.000022426779928	0.000062535055993	0.000001407055284
333	minimi	-0.051981	0.023778	-8.7727	-0.000023503340944	0.000062495779646	0.000001397272619
334	massimi	-0.046126	0.026225	-8.413764	0.00001937831211	0.000013592948432	0.000001333925652

334	minimi	-0.052758	0.024607	-8.794244	0.000016276656687	0.000011149784629	0.000001315092637
335	massimi	-0.046884	0.02618	-8.391145	0.000066983172638	0.000013778420487	0.000001401981192
335	minimi	-0.053507	0.024568	-8.769231	0.000061579607906	0.000011358914538	0.000001382567115
336	massimi	-0.047602	0.026133	-8.346237	0.000114309913096	0.000014158600966	0.000001276890859
336	minimi	-0.054211	0.024526	-8.720791	0.000106626875134	0.000011765072752	0.00000125000113
337	massimi	-0.048304	0.025341	-8.254665	0.000156110712827	0.000063143031532	0.000001238741372
337	minimi	-0.054895	0.023718	-8.625268	0.00014640292672	0.000063054709506	0.000001205182747
338	massimi	-0.048336	0.024552	-8.186409	0.000166953819776	0.000153578221165	0.00000141469097
338	minimi	-0.05493	0.022912	-8.555491	0.00015670942166	0.00014912274895	0.000001396895067
339	massimi	-0.048376	0.023713	-8.068924	0.000154490402416	0.000242876291997	0.000001326308809
339	minimi	-0.054972	0.022058	-8.433978	0.000144829623287	0.000234086658653	0.000001299019465
340	massimi	-0.04764	0.022828	-7.974168	0.000113038558962	0.000293131974223	0.00000139799515
340	minimi	-0.054251	0.021163	-8.337606	0.000105392404374	0.000281893049111	0.00000137977573
341	massimi	-0.046884	0.022786	-8.019052	0.000066983172638	0.000293167033282	0.000001411359631
341	minimi	-0.053507	0.021127	-8.38602	0.000061579607906	0.000281912896427	0.000001392616991
342	massimi	-0.046089	0.022735	-8.041695	0.000020649666244	0.000293747262346	0.000001455029943
342	minimi	-0.052718	0.021082	-8.411058	0.000017511127447	0.000282458701646	0.000001444867237
343	massimi	0.02872	0.072598	-10.228479	-0.000010202790928	0.000256751774075	0.000004731327395
343	minimi	0.024674	0.067611	-10.758387	-0.000015138528894	0.000230201528978	0.000004371976075
344	massimi	0.028595	0.075574	-10.335422	-0.000026290262245	0.000141699827095	0.000004765759931
344	minimi	0.024557	0.07036	-10.879808	-0.000030277583539	0.000121334124911	0.000004398962434
345	massimi	0.028483	0.078394	-10.379607	-0.000011697778583	0.000025598714859	0.000004442484361
345	minimi	0.024453	0.072964	-10.934882	-0.000016418650561	0.000011568346084	0.000004103060592
346	massimi	0.025988	0.081166	-10.359834	0.000041609820472	-0.000039802702143	0.000004412614553
346	minimi	0.022149	0.075522	-10.919213	0.000033998405439	-0.000050257922345	0.000004072865605
347	massimi	0.023497	0.081189	-10.323945	0.000102192387333	-0.00003939339805	0.000004749060462
347	minimi	0.019849	0.075542	-10.878131	0.000091248646721	-0.000049880272405	0.000004383777684
348	massimi	0.020986	0.081206	-10.259773	0.000162350640941	-0.000038863992118	0.000004443119842
348	minimi	0.017532	0.075556	-10.807151	0.000148120014282	-0.000049419738389	0.000004097011913
349	massimi	0.018451	0.078425	-10.178766	0.000215651694174	0.000026526267943	0.000004526837882
349	minimi	0.015194	0.07299	-10.709954	0.000198531225449	0.00001239656789	0.000004174318483
350	massimi	0.018337	0.075574	-10.134435	0.000229739852395	0.000141699827095	0.000004756753143
350	minimi	0.015088	0.07036	-10.654716	0.000211939840991	0.000121334124911	0.000004391353922
351	massimi	0.018213	0.072567	-10.027638	0.000214156706519	0.000255824220992	0.000004815680917
351	minimi	0.014973	0.067585	-10.533459	0.000197251103783	0.000229373307171	0.000004443233966
352	massimi	0.020861	0.0695	-9.957038	0.000161177618577	0.000320178999576	0.000004840662228
352	minimi	0.017417	0.064753	-10.453602	0.000147115583684	0.000290302955779	0.000004468916338
353	massimi	0.023497	0.069536	-10.02119	0.000102192387333	0.000320366011645	0.000004779993596
353	minimi	0.019849	0.064785	-10.524559	0.000091248646721	0.000290470306234	0.000004412576713
354	massimi	0.026112	0.069541	-10.057099	0.000042782842835	0.000321117709601	0.000004812078361
354	minimi	0.022265	0.064787	-10.565664	0.000035002836037	0.000291141139735	0.000004444770031
355	massimi	0.072497	0.124919	-10.44764	-0.000180546348901	0.0001411634429	0.000017390986986
355	minimi	0.064529	0.117945	-10.951125	-0.000186942610283	0.000123869932743	0.000016303543032
356	massimi	0.072421	0.130603	-10.479088	-0.000186601402064	0.000089091214933	0.000017604587803
356	minimi	0.064457	0.123274	-10.987739	-0.000193326866017	0.000074333986726	0.00001649642577
357	massimi	0.072354	0.136206	-10.495907	-0.000180766435343	0.000036875493763	0.00001712880011
357	minimi	0.064394	0.128525	-11.008974	-0.000187206389604	0.000024678315979	0.000016056070382
358	massimi	0.06675	0.141783	-10.551892	-0.000147566181028	0.000001925750041	0.000017073032298
358	minimi	0.059141	0.133751	-11.070463	-0.000152300743605	-0.000008562089205	0.000016000360594
359	massimi	0.061148	0.141813	-10.590977	-0.000097813685458	-0.000004632171514	0.000017609130976
359	minimi	0.053891	0.133777	-11.110628	-0.000099978679673	-0.000014795348648	0.000016500964215
360	massimi	0.055508	0.14185	-10.615405	-0.000047495586836	0.000001629735353	0.00001719578796
360	minimi	0.048607	0.13381	-11.135381	-0.000047903647992	-0.000008851693826	0.000016108547098
361	massimi	0.049829	0.136246	-10.623041	-0.000012520784433	0.000036601998417	0.000017349752071
361	minimi	0.043288	0.12856	-11.138922	-0.000014635734823	0.000024410743054	0.000016250798837
362	massimi	0.049764	0.130603	-10.606238	-0.000006233687577	0.000089091214933	0.000017596588158
362	minimi	0.043227	0.123274	-11.117704	-0.000008637755751	0.000074333986726	0.000016489375556
363	massimi	0.049686	0.124879	-10.574774	-0.000012784563754	0.000141436938246	0.000017611938947
363	minimi	0.043153	0.11791	-11.081073	-0.000014855821265	0.000124137505668	0.000016498271487
364	massimi	0.055423	0.119114	-10.518789	-0.000047739299123	0.000176347575891	0.000017667706759
364	minimi	0.048527	0.112509	-11.019584	-0.000048106991339	0.000157348524873	0.000016553981275
365	massimi	0.061148	0.119156	-10.494349	-0.000097813685458	0.000182461006926	0.000017592044985
365	minimi	0.053891	0.112546	-10.994815	-0.000099978679673	0.000163168297665	0.00001648483711
366	massimi	0.066836	0.119181	-10.455276	-0.00014736283768	0.000176051561203	0.000017544951097
366	minimi	0.059222	0.112568	-10.954665	-0.000152057031318	0.000157058920252	0.000016445794771
367	massimi	-0.050943	0.005664	-8.298758	-0.000072546018146	0.000324513937617	0.000001230708215
367	minimi	-0.05803	0.005357	-8.685972	-0.000075620266992	0.000308801691871	0.000001097970024
368	massimi	-0.050952	0.006408	-8.462032	-0.000085287303781	0.000232658782905	0.00000113230165
368	minimi	-0.05804	0.006022	-8.857512	-0.000089026173594	0.000221507530152	0.000001011265405

369	massimi	-0.050962	0.00714	-8.574658	-0.000074883009384	0.000139080983703	0.000001206215205
369	minimi	-0.05805	0.006674	-8.975761	-0.000078074908316	0.000132573289683	0.000001074955339
370	massimi	-0.051555	0.007842	-8.669496	-0.000033978457436	0.000086010805907	0.000001130504177
370	minimi	-0.058715	0.0073	-9.074898	-0.000035035829766	0.000082134263856	0.000001008169037
371	massimi	-0.052121	0.00779	-8.673979	0.000014075532123	0.000085883791063	0.000001143150869
371	minimi	-0.05935	0.007255	-9.079222	0.000012696942822	0.000082009953811	0.000001020724198
372	massimi	-0.052644	0.007739	-8.655573	0.000063128451155	0.000086140099689	0.000001058304268
372	minimi	-0.059936	0.00721	-9.059463	0.000059319624248	0.000082250894314	0.000000944763043
373	massimi	-0.053146	0.007063	-8.546712	0.000106166627739	0.000139208740853	0.000000993147908
373	minimi	-0.060497	0.006607	-8.94478	0.000100223362572	0.00013268853401	0.00000088783954
374	massimi	-0.053153	0.006408	-8.434065	0.000117048429737	0.000232658782905	0.000001155052299
374	minimi	-0.060504	0.006022	-8.826509	0.000110564997078	0.000221507530152	0.000001031245035
375	massimi	-0.053165	0.00574	-8.270812	0.000103711986416	0.000324386180467	0.000001017640918
375	minimi	-0.060517	0.005424	-8.654991	0.000097886371334	0.000308686447544	0.000000910854224
376	massimi	-0.052654	0.00504	-8.1029	0.00006120245082	0.000375754661968	0.000001092177688
376	minimi	-0.059946	0.004798	-8.478967	0.000057485936424	0.000357505415625	0.000000976591964
377	massimi	-0.052121	0.004991	-8.12127	0.000014075532123	0.000375448784908	0.000001145774061
377	minimi	-0.05935	0.004755	-8.498688	0.000012696942822	0.0003572111158	0.000001023189061
378	massimi	-0.051545	0.004937	-8.116823	-0.000032144769612	0.00037588395575	0.000001164377597
378	minimi	-0.058704	0.004708	-8.494402	-0.000033109829431	0.000357622046083	0.000001039997958
379	massimi	0.014824	0.04087	-11.216125	-0.000116062811887	0.000320301196377	0.000002156602187
379	minimi	0.011429	0.038079	-11.869578	-0.00011971410103	0.000290671707062	0.000002040525737
380	massimi	0.014755	0.042226	-11.356641	-0.000132947200789	0.000191266418192	0.000002160547456
380	minimi	0.011364	0.039361	-12.025988	-0.000137740698928	0.000169332398487	0.000002040131418
381	massimi	0.014692	0.043495	-11.427037	-0.000117849333794	0.000060815476807	0.00000199521543
381	minimi	0.011305	0.040562	-12.107811	-0.000121732035278	0.000046739329248	0.000001890088586
382	massimi	0.013569	0.044736	-11.480742	-0.000061355180441	-0.000012990691567	0.000001977974816
382	minimi	0.010242	0.041735	-12.169871	-0.000061630708075	-0.000022613372886	0.000001871129947
383	massimi	0.012447	0.044749	-11.495106	0.00000654118376	-0.000013066487146	0.000002151002636
383	minimi	0.00918	0.041745	-12.183132	0.000002688186237	-0.000022687856598	0.000002031716644
384	massimi	0.011314	0.044757	-11.477794	0.00007468591593	-0.000012930606125	0.000001993116273
384	minimi	0.008112	0.041751	-12.162698	0.000066720391291	-0.000022588679976	0.000001882297976
385	massimi	0.01017	0.043511	-11.421121	0.000134786824145	0.00006087484811	0.000002039899211
385	minimi	0.007032	0.040574	-12.093413	0.000123214372455	0.000046763728673	0.000001923046428
386	massimi	0.010105	0.042226	-11.35072	0.000150763206669	0.000191266418192	0.000002155776376
386	minimi	0.006972	0.039361	-12.011581	0.000138298973093	0.000169332398487	0.000002036612368
387	massimi	0.010037	0.040854	-11.210208	0.000132768889897	0.000320241825074	0.000002201285967
387	minimi	0.006909	0.038067	-11.855181	0.000121427850548	0.000290647307638	0.000002073483579
388	massimi	0.011245	0.039448	-11.055301	0.000073102570414	0.000392649586474	0.000002216310744
388	minimi	0.008047	0.036741	-11.685478	0.000065318620418	0.000358762307847	0.000002090349373
389	massimi	0.012447	0.039467	-11.072586	0.00000654118376	0.00039232330428	0.000002168286065
389	minimi	0.00918	0.036756	-11.705881	0.000002688186237	0.000358452321132	0.000002047827444
390	massimi	0.013638	0.039469	-11.058248	-0.000059953409568	0.000392709671916	0.000002201169287
390	minimi	0.010306	0.036757	-11.692651	-0.000060047362558	0.000358787000757	0.000002079181344
391	massimi	0.044814	0.117868	-12.85732	-0.000104001737573	0.000350301625443	0.000005058974374
391	minimi	0.03892	0.111283	-13.550855	-0.000104936045088	0.000307014951249	0.000004420150829
392	massimi	0.044748	0.119527	-12.946105	-0.00011847826168	0.000285251238448	0.000005083173505
392	minimi	0.038857	0.112732	-13.630377	-0.000113271702037	0.000245459340763	0.000004432409602
393	massimi	0.044683	0.121111	-13.016703	-0.000104728488221	0.000219741416551	0.000004819023941
393	minimi	0.038796	0.114111	-13.736076	-0.000105780610716	0.000183508385497	0.000004193840761
394	massimi	0.043098	0.122665	-13.09697	-0.000062135056318	0.000176030155641	0.000004756386063
394	minimi	0.037416	0.11546	-13.827695	-0.000063441007549	0.000142163339952	0.00000413226105
395	massimi	0.041516	0.122688	-13.106523	0.000003533218475	0.000167887262088	0.000005088276354
395	minimi	0.036039	0.115481	-13.836184	-0.000001351233153	0.000134472964046	0.000004437426246
396	massimi	0.039907	0.12271	-13.097848	0.000069195802553	0.000176040616717	0.000004839728676
396	minimi	0.034639	0.1155	-13.825401	0.000060740717583	0.00014215933925	0.000004204608937
397	massimi	0.038271	0.121138	-13.01846	0.000112838912982	0.0002197510818	0.000004969035057
397	minimi	0.033214	0.114134	-13.731484	0.000102029132918	0.00018350468915	0.000004324062107
398	massimi	0.038208	0.119527	-12.947861	0.000120324115983	0.000285251238448	0.000005077742299
398	minimi	0.033155	0.112732	-13.648484	0.000109150722776	0.000245459340763	0.000004427694891
399	massimi	0.03814	0.117841	-12.859076	0.000111994347354	0.000350291960194	0.00000520898549
399	minimi	0.033091	0.111259	-13.546262	0.00010130238227	0.000307018647597	0.000004550372175
400	massimi	0.039829	0.116121	-12.778809	0.000068415487325	0.00039380511371	0.000005271623368
400	minimi	0.034565	0.109755	-13.454643	0.000060069254551	0.000348194210443	0.000004611951886
401	massimi	0.041516	0.116148	-12.787443	0.000003533218475	0.000401483080107	0.00000507263945
401	minimi	0.036039	0.109778	-13.465377	-0.000001351233153	0.00035547151299	0.000004422678247
402	massimi	0.043176	0.116167	-12.777932	-0.000061354741091	0.000393815574786	0.000005188280755
402	minimi	0.03749	0.109794	-13.456937	-0.000062769544517	0.000348190209742	0.000004539603999
403	massimi	-0.068955	0.002548	-8.293093	-0.000080119517157	0.000317899765328	-0.000003752318883

403	minimi	-0.077293	0.002425	-8.678959	-0.000084108697904	0.000302100366198	-0.000004029638352
404	massimi	-0.068948	0.000032	-8.452199	-0.000092804626962	0.000226079449195	-0.000003991470533
404	minimi	-0.077285	-0.000023	-8.84639	-0.000097456235804	0.000214833293869	-0.000004292954104
405	massimi	-0.068955	-0.002362	-8.560679	-0.000082386092587	0.000132585203059	-0.000003752439573
405	minimi	-0.077292	-0.002594	-8.960553	-0.000086493924679	0.000125975559949	-0.000004029550335
406	massimi	-0.066862	-0.004787	-8.655536	-0.000041497415804	0.000079551170655	-0.00000382725855
406	minimi	-0.075045	-0.005202	-9.060277	-0.000043472129633	0.000075571161087	-0.000004113698332
407	massimi	-0.064747	-0.004838	-8.664167	0.000005583641748	0.000079393082838	-0.000003981800118
407	minimi	-0.072771	-0.005259	-9.069254	0.000005125584626	0.000075420123709	-0.000004281940521
408	massimi	-0.062578	-0.004899	-8.649915	0.000054616229354	0.000079602460379	-0.00000390602397
408	minimi	-0.070437	-0.005328	-9.054155	0.000051727303174	0.00007561824323	-0.00000402225522
409	massimi	-0.060373	-0.002445	-8.549398	0.000097637666598	0.000132635883214	-0.00000398488218
409	minimi	-0.068063	-0.002688	-8.948263	0.000092615651507	0.00012602208253	-0.000004290800649
410	massimi	-0.060375	0.000032	-8.440909	0.000108572422241	0.000226079449195	-0.00000396665105
410	minimi	-0.068066	-0.000023	-8.834091	0.000103008890929	0.000214833293869	-0.000004265058625
411	massimi	-0.060373	0.002642	-8.281811	0.000095252439823	0.000317849085172	-0.000003984761491
411	minimi	-0.068063	0.002508	-8.666669	0.000090349076077	0.000302053843617	-0.000004290888666
412	massimi	-0.062578	0.005282	-8.113895	0.000052744694183	0.000369230426984	-0.000003905857059
412	minimi	-0.070437	0.004962	-8.490075	0.000049948866139	0.000350887783444	-0.000004202347248
413	massimi	-0.064747	0.005213	-8.128112	0.000005583641748	0.000368893516829	-0.000003981787192
413	minimi	-0.072771	0.004901	-8.505138	0.000005125584626	0.000350566789947	-0.000004281949948
414	massimi	-0.066862	0.005156	-8.119516	-0.000039718978769	0.000369281716708	-0.000003827091638
414	minimi	-0.075045	0.00485	-8.496198	-0.000041600594462	0.000350934865588	-0.000004113820058
415	massimi	-0.008346	0.020925	-11.366713	-0.00016073515776	0.00032060524903	-0.000001345830934
415	minimi	-0.0104	0.019871	-12.035644	-0.000169489621732	0.000290699005155	-0.000001469818879
416	massimi	-0.008375	0.019993	-11.506559	-0.000177804496648	0.000189238606174	-0.000001439753204
416	minimi	-0.010428	0.019016	-12.191484	-0.000187721459398	0.000167249867279	-0.000001564737711
417	massimi	-0.008409	0.01902	-11.575032	-0.000162499708162	0.000056470814321	-0.000001418510059
417	minimi	-0.01046	0.018122	-12.271351	-0.000171486161783	0.00004256238809	-0.000001546232009
418	massimi	-0.007555	0.018025	-11.649952	-0.000104949767195	-0.000018756549474	-0.000001442239682
418	minimi	-0.009676	0.017206	-12.357252	-0.000110216329963	-0.000028073854507	-0.000001568012748
419	massimi	-0.0067	0.018024	-11.687917	-0.000039811344639	-0.000019045023214	-0.0000014429288
419	minimi	-0.00889	0.017203	-12.396816	-0.000040832367186	-0.000028338800531	-0.000001568619214
420	massimi	-0.005839	0.018013	-11.693609	0.00002872113576	-0.000019131623914	-0.000001453054752
420	minimi	-0.008097	0.017191	-12.402028	0.000025492378696	-0.000028439550126	-0.000001576163121
421	massimi	-0.004974	0.019011	-11.662658	0.000089993583053	0.00005610019779	-0.000001450426288
421	minimi	-0.007298	0.018111	-12.361225	0.000083044869735	0.000042201038909	-0.000001570284482
422	massimi	-0.005007	0.019993	-11.594248	0.000106430390801	0.000189238606174	-0.00000143634537
422	minimi	-0.007329	0.019016	-12.281423	0.000098546129547	0.000167249867279	-0.000001562169525
423	massimi	-0.005037	0.020933	-11.454339	0.000087997043002	0.000320975865561	-0.000001377747163
423	minimi	-0.007358	0.019882	-12.125518	0.000081280319333	0.000291060354336	-0.000001493871352
424	massimi	-0.005872	0.021856	-11.276311	0.000027154576918	0.000394824812809	-0.00000135254106
424	minimi	-0.008128	0.02073	-11.929868	0.000024107847475	0.000360478753175	-0.000001470485378
425	massimi	-0.0067	0.02185	-11.270593	-0.000039811344639	0.00039428094876	-0.000001435145357
425	minimi	-0.00889	0.020723	-11.924626	-0.000040832367186	0.000359973872331	-0.000001560435885
426	massimi	-0.007522	0.021844	-11.232655	-0.000103565235974	0.000394449738369	-0.00000134172599
426	minimi	-0.009645	0.020714	-11.885092	-0.000108649771121	0.000360113057556	-0.000001462335005
427	massimi	0.066607	0.019318	-13.924536	-0.000392054198509	0.000092286775337	0.000003170846227
427	minimi	0.06087	0.018533	-14.678926	-0.000414950349905	0.000062173517315	0.000001736344999
428	massimi	0.066596	0.019901	-13.932827	-0.000400005280434	0.000021241595009	0.000003304421639
428	minimi	0.06086	0.019582	-14.69632	-0.000423395870679	-0.000005043054306	0.00000186323142
429	massimi	0.066585	0.020619	-13.921261	-0.000392039267144	-0.000049837797722	0.000003131535747
429	minimi	0.060849	0.020471	-14.692719	-0.000415013241555	-0.000072251503419	0.00000169639409
430	massimi	0.066031	0.021657	-14.010555	-0.000346974489423	-0.000097561062423	0.000003163016504
430	minimi	0.059826	0.021044	-14.795926	-0.000367363993458	-0.000117380320148	0.00000173297471
431	massimi	0.065459	0.021688	-14.111287	-0.000279611608645	-0.000106677929069	0.000003301857032
431	minimi	0.058789	0.021079	-14.902585	-0.00029610610784	-0.000125981594173	0.000001860251349
432	massimi	0.064847	0.021721	-14.192115	-0.000211798376336	-0.000098437766911	0.000003281035471
432	minimi	0.057715	0.021115	-14.988195	-0.000224371304115	-0.000118208188083	0.000001864384834
433	massimi	0.064212	0.020657	-14.284689	-0.000166540188044	-0.000050647806843	0.000003343961976
433	minimi	0.05662	0.020514	-15.077586	-0.000176517236012	-0.000073016391233	0.000001932923503
434	massimi	0.064203	0.019901	-14.296303	-0.000158108185303	0.000021241595009	0.000003296730671
434	minimi	0.056611	0.019582	-15.081237	-0.000167641128369	-0.000005043054306	0.000001854667787
435	massimi	0.064191	0.019275	-14.287964	-0.000166525256679	0.000093096784459	0.000003383272455
435	minimi	0.056598	0.018494	-15.063793	-0.000176580127662	0.000062938405128	0.000001972874412
436	massimi	0.064834	0.018649	-14.198669	-0.000211784580876	0.00014087205147	0.000003351791699
436	minimi	0.057702	0.017406	-14.960586	-0.000224429411277	0.000108133690318	0.000001936293792
437	massimi	0.065459	0.018686	-14.117843	-0.000279611608645	0.000149076813241	0.000003299295278
437	minimi	0.058789	0.01744	-14.874973	-0.00029610610784	0.000115915500959	0.000001857647859

438	massimi	0.066044	0.018721	-14.01711	-0.000346988284883	0.000139995346982	0.000003233772731
438	minimi	0.059839	0.01747	-14.768317	-0.000367305886296	0.000107305822382	0.000001804883668
439	massimi	-0.097234	-0.001421	-8.235736	-0.000100056899745	0.000221515506373	-0.000010900274097
439	minimi	-0.107667	-0.001703	-8.611709	-0.00010573943207	0.000211720269545	-0.000011455374357
440	massimi	-0.097205	-0.008321	-8.338746	-0.00011207999198	0.000130638341337	-0.000011368556924
440	minimi	-0.107636	-0.008957	-8.71934	-0.000118371722615	0.00012527445525	-0.00001195825051
441	massimi	-0.097208	-0.015204	-8.391772	-0.000101378594335	0.000038793908201	-0.000010868470615
441	minimi	-0.107639	-0.016193	-8.774426	-0.00010711771776	0.000037901087965	-0.000011421140656
442	massimi	-0.091157	-0.02213	-8.442464	-0.000061081483085	-0.000011577790144	-0.000010957530828
442	minimi	-0.10128	-0.023476	-8.82736	-0.000064756786417	-0.000013216641655	-0.000011521076522
443	massimi	-0.085088	-0.02219	-8.462216	-0.000015422117745	-0.000011716020007	-0.000011358342319
443	minimi	-0.094898	-0.023543	-8.848427	-0.000016763107003	-0.000013363208692	-0.000011946429127
444	massimi	-0.078948	-0.022278	-8.459375	0.000031300174318	-0.000011719453274	-0.000011061041195
444	minimi	-0.088438	-0.02364	-8.845742	0.000030301281596	-0.000013370622725	-0.000011636521632
445	massimi	-0.072749	-0.015314	-8.425716	0.000073662179847	0.000038641757166	-0.000011173937398
445	minimi	-0.081914	-0.016315	-8.811322	0.0000705993811	0.000037761108475	-0.000011761827752
446	massimi	-0.072747	-0.008321	-8.372715	0.000084998911266	0.000130638341337	-0.000011335940151
446	minimi	-0.081911	-0.008957	-8.756263	0.000081376887477	0.00012527445525	-0.000011921873024
447	massimi	-0.072723	-0.001311	-8.26968	0.000072283894157	0.000221667657408	-0.00001120574088
447	minimi	-0.081886	-0.00158	-8.648605	0.00006927768651	0.000211860249035	-0.000011796061454
448	massimi	-0.078934	0.005778	-8.146809	0.00003021872153	0.000272725394472	-0.000011105024875
448	minimi	-0.088424	0.005684	-8.519793	0.000029264232232	0.000260425364683	-0.000011683866265
449	massimi	-0.085088	0.005679	-8.14963	-0.000015422117745	0.000272402312125	-0.000011361748459
449	minimi	-0.094898	0.005594	-8.522456	-0.000016763107003	0.000260119224143	-0.000011950095543
450	massimi	-0.091171	0.005614	-8.129897	-0.000060044433721	0.000272571413401	-0.000011001514508
450	minimi	-0.101295	0.005537	-8.501411	-0.00006367533363	0.000260283701553	-0.000011568421155
451	massimi	-0.02239	-0.001446	-11.115536	-0.000209277926697	0.000233193304366	-0.000001961883283
451	minimi	-0.022595	-0.001811	-11.761066	-0.000221864030155	0.000209417463827	-0.000002362850875
452	massimi	-0.022381	-0.002691	-11.205641	-0.000225433122907	0.000104883564393	-0.000002054198837
452	minimi	-0.022588	-0.003308	-11.863431	-0.000239106083314	0.000088764203098	-0.000002464078294
453	massimi	-0.022379	-0.003929	-11.226097	-0.000210214423167	-0.0000242027481	-0.000001951599706
453	minimi	-0.022587	-0.004797	-11.891705	-0.00022970592084	-0.000032546280154	-0.000002350209558
454	massimi	-0.02107	-0.005177	-11.281352	-0.000154073247474	-0.000097360944612	-0.000001972795363
454	minimi	-0.0215	-0.006295	-11.95663	-0.000163238337187	-0.000101283978401	-0.000002369972003
455	massimi	-0.019756	-0.005192	-11.346922	-0.000090848292571	-0.000097803606633	-0.000002051145418
455	minimi	-0.020406	-0.006309	-12.025996	-0.000095937842018	-0.000101691262544	-0.000002461304814
456	massimi	-0.018426	-0.005212	-11.380974	-0.000027246126258	-0.000098242202174	-0.000001997619858
456	minimi	-0.019296	-0.006329	-12.061833	-0.000028239003108	-0.000102118484818	-0.000002394005914
457	massimi	-0.017083	-0.003956	-11.426057	0.000031499396982	-0.000025073531565	-0.000002024858988
457	minimi	-0.018173	-0.004822	-12.102867	0.000028900868624	-0.000033370868131	-0.000002421135756
458	massimi	-0.01708	-0.002691	-11.405746	0.000048108347103	0.000104883564393	-0.000002046376628
458	minimi	-0.018171	-0.003308	-12.074747	0.00004456791003	0.000088764203098	-0.00000245605199
459	massimi	-0.017073	-0.00142	-11.315496	0.000030392835053	0.000234064087832	-0.000002035142565
459	minimi	-0.018165	-0.001786	-11.972229	0.000027964372154	0.000210242051804	-0.000002433777073
460	massimi	-0.018421	-0.000153	-11.159503	-0.000027980935872	0.0003064663144	-0.000002011841827
460	minimi	-0.019292	-0.000267	-11.800143	-0.000029107252344	0.00027834101782	-0.000002411488587
461	massimi	-0.019756	-0.000174	-11.125437	-0.000090848292571	0.000305774285319	-0.00000205224672
461	minimi	-0.020406	-0.000288	-11.764289	-0.000095937842018	0.000277699311738	-0.000002462658613
462	massimi	-0.021076	-0.000189	-11.05988	-0.00015338437859	0.000305585056837	-0.000001987017333
462	minimi	-0.021504	-0.000301	-11.69494	-0.000162370087951	0.000277506511402	-0.000002387454677
463	massimi	0.134869	-0.066854	-13.103582	-0.000512466347276	-0.000463978219265	0.000006756318131
463	minimi	0.126421	-0.070863	-13.789611	-0.000540702658284	-0.000467747434542	0.000005764973467
464	massimi	0.134907	-0.064618	-12.941768	-0.000518988219199	-0.000526897968795	0.000007142853288
464	minimi	0.126456	-0.068948	-13.625959	-0.000547618669887	-0.00053413731334	0.000006160012523
465	massimi	0.134944	-0.062342	-12.761454	-0.000510906319293	-0.000588969079358	0.000006886039262
465	minimi	0.126492	-0.066989	-13.442782	-0.000539121196209	-0.000599666893247	0.000005903386578
466	massimi	0.133028	-0.06003	-12.722453	-0.000468979583155	-0.000630867845473	0.000007035861343
466	minimi	0.124254	-0.064994	-13.408719	-0.000494867946515	-0.000643895713894	0.000006063985561
467	massimi	0.131067	-0.059967	-12.863822	-0.000406975923001	-0.000638672285467	0.000007130647904
467	minimi	0.121975	-0.064926	-13.557882	-0.000429397277863	-0.000652150853806	0.000006146929189
468	massimi	0.129024	-0.059897	-12.986713	-0.000344316774218	-0.000632072810885	0.000007280726808
468	minimi	0.11962	-0.064851	-13.687538	-0.000363235008021	-0.000645167063963	0.000006327103556
469	massimi	0.126946	-0.062262	-13.290425	-0.000302108528146	-0.000590082376926	0.000007326780682
469	minimi	0.117232	-0.066904	-14.000895	-0.000318684739284	-0.000600841525254	0.00000637698133
470	massimi	0.126989	-0.064618	-13.470807	-0.000293348378549	-0.000526897968795	0.000007126896086
470	minimi	0.117272	-0.068948	-14.184145	-0.000309471649387	-0.00053413731334	0.000006142865853
471	massimi	0.127022	-0.066934	-13.632553	-0.000300548500164	-0.000462864921697	0.000007197059552
471	minimi	0.117303	-0.070948	-14.347725	-0.000317103277208	-0.000466572802535	0.000006238568218
472	massimi	0.129069	-0.06922	-13.671554	-0.000342875425494	-0.000420510026343	0.00000704723747

472	minimi	0.119662	-0.072917	-14.381788	-0.000361773855804	-0.000421877794893	0.000006077969236
473	massimi	0.131067	-0.069152	-13.548753	-0.000406975923001	-0.000413032444817	0.00000713910147
473	minimi	0.121975	-0.072844	-14.252222	-0.000429397277863	-0.000414003833305	0.000006155949187
474	massimi	0.132983	-0.069086	-13.407294	-0.000470420931879	-0.000421714991755	0.000006802372005
474	minimi	0.124212	-0.072773	-14.102969	-0.000496329098732	-0.000423149144963	0.00000581485124
475	massimi	-0.147725	-0.031085	-7.410266	-0.000170936695452	0.000152264591856	0.00000400770603
475	minimi	-0.158799	-0.03346	-7.700255	-0.000182331943679	0.000140023402128	0.00000356884263
476	massimi	-0.147678	-0.028908	-7.471691	-0.000181242038409	0.000071548619241	0.000003850612725
476	minimi	-0.158749	-0.031011	-7.768146	-0.000193130496976	0.000062799712195	0.000003418630278
477	massimi	-0.147634	-0.02667	-7.488486	-0.000171599257023	-0.000009697111301	0.000004126230052
477	minimi	-0.158702	-0.028499	-7.789373	-0.000183086809647	-0.000014888957296	0.000003679327108
478	massimi	-0.149649	-0.024468	-7.547897	-0.000135573114599	-0.000055857516246	0.000003953319648
478	minimi	-0.160963	-0.026024	-7.857171	-0.000145407083305	-0.000059010940443	0.000003518811944
479	massimi	-0.151592	-0.024608	-7.61013	-0.000095059598717	-0.000056338520163	0.000003890895209
479	minimi	-0.163146	-0.026174	-7.924233	-0.000103024578479	-0.000059448229144	0.000003455969517
480	massimi	-0.153409	-0.024731	-7.652138	-0.000054151386956	-0.000056803870338	0.000003754850613
480	minimi	-0.165194	-0.026306	-7.970145	-0.000060214306471	-0.000059884130526	0.000003334398592
481	massimi	-0.155161	-0.026866	-7.697715	-0.000018119153077	-0.000010632218152	0.000003540533184
481	minimi	-0.167172	-0.028709	-8.016133	-0.000022527978275	-0.000015751769679	0.000003135109606
482	massimi	-0.155106	-0.028908	-7.681072	-0.000008007248995	0.000071548619241	0.000003913151576
482	minimi	-0.167113	-0.031011	-7.99507	-0.000011975860774	0.000062799712195	0.000003476740094
483	massimi	-0.15507	-0.03089	-7.619495	-0.000018781714648	0.000153199698707	0.000003422009162
483	minimi	-0.167074	-0.033249	-7.927015	-0.000023282844243	0.00014088621451	0.000003024625129
484	massimi	-0.153361	-0.032916	-7.495449	-0.000054671256721	0.000198848507633	0.000003590933888
484	minimi	-0.165143	-0.035535	-7.791628	-0.000060806601603	0.000184559664947	0.000003181600421
485	massimi	-0.151592	-0.033046	-7.453431	-0.000095059598717	0.000198210270756	0.000003878201332
485	minimi	-0.163146	-0.035675	-7.745703	-0.000103024578479	0.000183972017309	0.000003444136673
486	massimi	-0.149697	-0.033178	-7.391209	-0.000135053244834	0.000197902153541	0.000003789402922
486	minimi	-0.161014	-0.035817	-7.678653	-0.000144814788173	0.000183686474864	0.000003366013772
487	massimi	-0.009639	-0.026738	-9.516797	-0.000269636031029	0.000100284945531	-0.000001634726108
487	minimi	-0.00993	-0.028612	-10.041299	-0.000285919414859	0.000094812154081	-0.000001994777851
488	massimi	-0.00959	-0.027766	-9.541638	-0.000282678199382	-0.000007433543453	-0.000001643386563
488	minimi	-0.009884	-0.029866	-10.067466	-0.00029975370932	-0.000008182290755	-0.000002008188558
489	massimi	-0.009546	-0.028737	-9.507538	-0.000269557604288	-0.000109624201996	-0.000001528604023
489	minimi	-0.009843	-0.031059	-10.031107	-0.000285833088546	-0.00011658894422	-0.0000018894029605
490	massimi	-0.008491	-0.029689	-9.553447	-0.000222027148938	-0.000167630544461	-0.000001517083583
490	minimi	-0.008984	-0.032231	-10.079557	-0.000235411555971	-0.000178122897482	-0.000001866568103
491	massimi	-0.007438	-0.029698	-9.659429	-0.000168923374866	-0.000168297968415	-0.000001637274401
491	minimi	-0.008126	-0.032238	-10.191919	-0.000179078307042	-0.000178830008007	-0.000002002029207
492	massimi	-0.006379	-0.029703	-9.738685	-0.000115118213649	-0.000169182226242	-0.000001526969008
492	minimi	-0.007262	-0.032244	-10.27593	-0.000122001506651	-0.000179767859563	-0.000001875616258
493	massimi	-0.005311	-0.028747	-9.879343	-0.000067576938097	-0.000111157441422	-0.000001557776787
493	minimi	-0.006389	-0.031068	-10.425264	-0.000071568503411	-0.000118214355273	-0.000001907331512
494	massimi	-0.005266	-0.027766	-9.913713	-0.000053622696216	-0.000007433543453	-0.000001640271662
494	minimi	-0.006347	-0.029866	-10.461909	-0.000056764120663	-0.000008182290755	-0.000002005337481
495	massimi	-0.005217	-0.026728	-9.888602	-0.000067498511356	0.000101910356584	-0.000001663898873
495	minimi	-0.006301	-0.028603	-10.435455	-0.000071482177098	0.000096345393506	-0.000002021479757
496	massimi	-0.006331	-0.025667	-9.757232	-0.00011505667714	0.000163523653541	-0.000001673733607
496	minimi	-0.007216	-0.027314	-10.296345	-0.000121933771847	0.000154424499469	-0.000002033480867
497	massimi	-0.007438	-0.025679	-9.677977	-0.000168923374866	0.000162605573117	-0.000001648639358
497	minimi	-0.008126	-0.027327	-10.212336	-0.000179078307042	0.000153558203553	-0.000002014253711
498	massimi	-0.00854	-0.025681	-9.571994	-0.000222088685447	0.000161878691459	-0.000001663848182
498	minimi	-0.009029	-0.027327	-10.099972	-0.000235479290775	0.000152872817688	-0.000002024432712
499	massimi	0.042103	-0.170798	-8.47704	-0.000777789902378	-0.000115288160983	-0.000015373413791
499	minimi	0.040295	-0.180827	-8.900274	-0.000820001367556	-0.000128774729517	-0.000016296481206
500	massimi	0.042211	-0.175795	-8.428087	-0.000781972375609	-0.00015811358362	-0.000015303010364
500	minimi	0.040398	-0.186123	-8.855315	-0.000824442589727	-0.00016939990472	-0.000016223241535
501	massimi	0.042307	-0.180682	-8.367045	-0.000777288346845	-0.000200684343388	-0.000015020504187
501	minimi	0.040488	-0.191304	-8.797607	-0.000819533228316	-0.00020975223894	-0.000015922837382
502	massimi	0.047526	-0.185516	-8.542596	-0.00074985295708	-0.000229756501203	-0.000014838968482
502	minimi	0.045411	-0.196429	-8.989349	-0.000790598581827	-0.000237313528305	-0.00001573107524
503	massimi	0.052703	-0.185487	-8.778936	-0.000709197012833	-0.000236029961624	-0.000015317799325
503	minimi	0.050295	-0.196398	-9.238522	-0.000747696210062	-0.00024324646887	-0.000016238863602
504	massimi	0.057848	-0.185461	-9.003096	-0.000667398812864	-0.000231970263789	-0.000014738000786
504	minimi	0.055148	-0.196371	-9.474848	-0.000703589574518	-0.00023941330331	-0.000015625273528
505	massimi	0.063002	-0.180649	-9.28883	-0.000639472863355	-0.000202729693802	-0.000014838769103
505	minimi	0.060009	-0.19127	-9.769432	-0.000674137737948	-0.000211692273387	-0.000015732401394
506	massimi	0.063099	-0.175795	-9.349993	-0.000633606915397	-0.00015811358362	-0.000015309590148
506	minimi	0.060101	-0.186123	-9.827267	-0.00066798229613	-0.00016939990472	-0.000016230136339

507	massimi	0.063206	-0.170831	-9.398826	-0.000638971307822	-0.000113242810569	-0.000015191678707
507	minimi	0.060201	-0.180861	-9.8721	-0.000673669598707	-0.00012683469507	-0.000016106045218
508	massimi	0.057969	-0.165803	-9.223275	-0.000666935413209	-0.000083892871595	-0.000015373214412
508	minimi	0.055262	-0.17553	-9.680358	-0.000703157049009	-0.000098996489281	-0.00001629780736
509	massimi	0.052703	-0.165784	-8.999144	-0.000709197012833	-0.000079569668027	-0.000015294801186
509	minimi	0.050295	-0.17551	-9.444059	-0.000747696210062	-0.000094881008658	-0.000016214514272
510	massimi	0.047404	-0.165748	-8.762775	-0.000750316356734	-0.000086106634181	-0.000015474182108
510	minimi	0.045297	-0.175472	-9.194858	-0.000791031107336	-0.000101096264286	-0.000016403609072
511	massimi	-0.202773	0.030046	-11.90989	-0.000142548728222	0.000762227345836	0.000010311950408
511	minimi	-0.217203	0.029764	-12.565361	-0.000163392366278	0.000710162272332	0.000009795290839
512	massimi	-0.202798	0.033348	-12.130382	-0.000150483495006	0.000701644132936	0.000009990231889
512	minimi	-0.217229	0.032902	-12.80217	-0.000171799742266	0.000652928578277	0.000009495170928
513	massimi	-0.202809	0.03663	-12.333854	-0.000144481904876	0.000639930829226	0.000010245003301
513	minimi	-0.217239	0.03602	-13.020958	-0.000165469778882	0.000594643256266	0.000009729240012
514	massimi	-0.205994	0.039883	-12.561519	-0.000105790894243	0.000598783363511	0.000010038472203
514	minimi	-0.220593	0.039109	-13.269424	-0.000124500505115	0.00055578897168	0.000009534921454
515	massimi	-0.209108	0.039758	-12.585384	-0.00004711183302	0.00059068575331	0.000010007057122
515	minimi	-0.223872	0.038992	-13.298744	-0.000062357487075	0.000548167719796	0.000009511001256
516	massimi	-0.212092	0.039638	-12.59211	0.000011643108051	0.000598598736827	0.00000958904829
516	minimi	-0.227011	0.03888	-13.309914	-0.000000114034044	0.000555649483995	0.000009115135172
517	massimi	-0.21502	0.036485	-12.395088	0.000050366706482	0.000639760248032	0.000009436070389
517	minimi	-0.230088	0.035883	-13.102007	0.000040898373116	0.000594514380118	0.000008973652848
518	massimi	-0.215039	0.033348	-12.191624	0.000056446811295	0.000701644132936	0.000010019519597
518	minimi	-0.230108	0.032902	-12.883231	0.000047332258978	0.000652928578277	0.000009522527235
519	massimi	-0.215056	0.030191	-11.971124	0.000048433529827	0.000762397927029	0.000009503017496
519	minimi	-0.230125	0.0299	-12.646411	0.000038820960512	0.000710291148479	0.000009039703676
520	massimi	-0.212114	0.026997	-11.743459	0.00000985699797	0.000803074102905	0.000009709548594
520	minimi	-0.227032	0.026863	-12.397945	-0.00002033407311	0.000748704406383	0.000009234022233
521	massimi	-0.209108	0.026879	-11.736623	-0.00004711183302	0.000809817754554	0.000010002694365
521	minimi	-0.223872	0.026752	-12.386657	-0.000062357487075	0.000755098026097	0.000009506696907
522	massimi	-0.205973	0.026752	-11.712868	-0.000104004784163	0.000802889476221	0.000010158972508
522	minimi	-0.220572	0.026633	-12.357455	-0.000122581131848	0.000748564918699	0.000009653808515
523	massimi	0.043464	-0.011495	-11.390537	-0.000247415185845	-0.000402975747463	-0.000002483391662
523	minimi	0.040917	-0.012916	-12.045742	-0.000264128102502	-0.000422250401509	-0.000002575186823
524	massimi	0.043473	-0.012293	-11.250101	-0.00002033407311	-0.000456907690334	-0.000002423173085
524	minimi	0.040925	-0.013744	-11.898465	-0.000270192617554	-0.00047946452328	-0.000002509767329
525	massimi	0.043479	-0.013084	-11.093855	-0.000246062383548	-0.000510103722851	-0.000002458713477
525	minimi	0.04093	-0.014563	-11.734413	-0.000262708514428	-0.000535906403931	-0.000002547595746
526	massimi	0.044313	-0.013867	-10.996388	-0.000210236972035	-0.000545859234247	-0.000002414698085
526	minimi	0.041735	-0.015374	-11.63326	-0.000224698491951	-0.000573843882621	-0.000002500322556
527	massimi	0.045132	-0.013843	-11.055308	-0.000157209505397	-0.000552228481324	-0.000002426758837
527	minimi	0.042525	-0.015349	-11.696304	-0.000168431552453	-0.000580608358424	-0.00000251361848
528	massimi	0.045922	-0.01382	-11.098468	-0.000103928832027	-0.000546324696712	-0.000002329328565
528	minimi	0.043289	-0.015325	-11.742627	-0.00011893331631	-0.000574342571078	-0.000002409720752
529	massimi	0.0467	-0.013056	-11.298189	-0.000067994676888	-0.000510533775221	-0.000002305054065
529	minimi	0.044041	-0.014534	-11.953334	-0.00007376680311	-0.000536367154622	-0.000002384518574
530	massimi	0.046708	-0.012293	-11.454462	-0.000060670028396	-0.000456907690334	-0.00000242873638
530	minimi	0.044048	-0.013744	-12.117414	-0.000066001998738	-0.00047946452328	-0.000002515671597
531	massimi	0.046715	-0.011522	-11.594872	-0.000066641874591	-0.000402545695093	-0.00000232973225
531	minimi	0.044055	-0.012946	-12.264663	-0.000072347215035	-0.000421789650818	-0.00000241210965
532	massimi	0.04593	-0.010743	-11.692338	-0.000102678944277	-0.00036643872529	-0.000002373747643
532	minimi	0.043297	-0.012138	-12.365816	-0.000110581738838	-0.000383482583228	-0.00000245938284
533	massimi	0.045132	-0.01072	-11.649255	-0.000157209505397	-0.000359773476713	-0.000002425150628
533	minimi	0.042525	-0.012114	-12.319574	-0.000168431552453	-0.000376417739608	-0.000002511820446
534	massimi	0.044304	-0.010696	-11.590258	-0.000211486859785	-0.000366904187755	-0.000002459117163
534	minimi	0.041727	-0.012088	-12.256449	-0.000226010084745	-0.000383981271685	-0.000002549984644
535	massimi	-0.01929	0.001479	-11.993366	-0.000249302851299	-0.000271357318223	-0.000018119688792
535	minimi	-0.019495	-0.000698	-12.689845	-0.000251480002901	-0.000290541628107	-0.000019371632161
536	massimi	-0.019281	-0.004839	-11.895123	-0.000255982362237	-0.000328409831935	-0.000018367273613
536	minimi	-0.019486	-0.006608	-12.584758	-0.000257771534781	-0.00035104674176	-0.000019636448489
537	massimi	-0.019283	-0.011154	-11.78012	-0.000248263479784	-0.000384933398114	-0.000018106424091
537	minimi	-0.01949	-0.012513	-12.461901	-0.000250507654253	-0.000410986448139	-0.000019361917429
538	massimi	-0.013169	-0.017476	-11.724078	-0.000207982612466	-0.000422886530528	-0.000018107113215
538	minimi	-0.013372	-0.018425	-12.395918	-0.000212514330277	-0.000451219994466	-0.000019363535333
539	massimi	-0.006854	-0.017473	-11.783119	-0.00014815702184	-0.000429751714662	-0.000018367217473
539	minimi	-0.007466	-0.018423	-12.452887	-0.000156087687053	-0.000458469457275	-0.000019636316685
540	massimi	-0.000535	-0.017483	-11.82543	-0.000088092804706	-0.000423348671538	-0.00001812210087
540	minimi	-0.001555	-0.018433	-12.49212	-0.000099409643935	-0.000451658654536	-0.000019377295164
541	massimi	0.005794	-0.011159	-11.982997	-0.000047709455469	-0.000385360381708	-0.000018133400865

541	minimi	0.004365	-0.012518	-12.65447	-0.000061308352308	-0.000411391737108	-0.000019386684202
542	massimi	0.00579	-0.004839	-12.098026	-0.000039743660488	-0.000328409831935	-0.000018366296909
542	minimi	0.004362	-0.006608	-12.777351	-0.000053784342324	-0.00035104674176	-0.000019635551799
543	massimi	0.0058	0.001483	-12.196242	-0.000046670083954	-0.000270930334629	-0.000018146665566
543	minimi	0.004372	-0.000693	-12.882414	-0.00006033600366	-0.000290136339138	-0.000019396398933
544	massimi	-0.000532	0.007814	-12.252284	-0.000087132503465	-0.000232714879935	-0.000018145976442
544	minimi	-0.001551	0.00523	-12.948397	-0.000098511266792	-0.000249626598635	-0.000019394781029
545	massimi	-0.006854	0.007804	-12.210029	-0.000451923499295	-0.000225764522205	-0.00001836635305
545	minimi	-0.007466	0.00522	-12.909223	-0.000156087687053	-0.000242230755527	-0.000019635683603
546	massimi	-0.013172	0.007806	-12.150932	-0.000208942913707	-0.000233177020946	-0.000018130988788
546	minimi	-0.013376	0.005222	-12.852195	-0.000213412707421	-0.000250065258705	-0.000019381021199
547	massimi	0.060262	-0.057055	-9.077348	-0.000420669268028	-0.00056059482316	-0.000010204750464
547	minimi	0.056549	-0.06197	-9.568947	-0.000447720799859	-0.000595402365459	-0.000010922840065
548	massimi	0.060303	-0.060364	-8.887755	-0.000424646360997	-0.000603190395337	-0.000010158803522
548	minimi	0.056587	-0.065512	-9.367613	-0.000451923499295	-0.00064047114816	-0.000010873248955
549	massimi	0.060334	-0.063636	-8.68568	-0.000418883355098	-0.00064481444949	-0.00001008356879
549	minimi	0.056615	-0.069014	-9.153072	-0.000445824506891	-0.000684508367245	-0.000010791323489
550	massimi	0.063865	-0.066887	-8.603058	-0.000390618255018	-0.000673020295439	-0.00000998436661
550	minimi	0.059915	-0.072493	-9.065771	-0.000415918240339	-0.000714352024383	-0.000010684631436
551	massimi	0.067365	-0.066851	-8.72263	-0.000349137093683	-0.000678195506105	-0.000010166885113
551	minimi	0.063185	-0.072454	-9.193137	-0.000372032005418	-0.000719829937481	-0.000010881940714
552	massimi	0.070823	-0.066818	-8.829762	-0.000307093600815	-0.00067405401291	-0.000009857522045
552	minimi	0.066416	-0.072419	-9.307341	-0.000327546563676	-0.000715453528608	-0.000010549395524
553	massimi	0.074271	-0.063595	-9.139475	-0.000278586998585	-0.000645769526819	-0.000009855257079
553	minimi	0.069638	-0.06897	-9.636624	-0.000297382958301	-0.000685526074445	-0.000010547907914
554	massimi	0.074305	-0.060364	-9.341609	-0.00027224213486	-0.000603190395337	-0.00001016706963
554	minimi	0.069669	-0.065512	-9.851228	-0.000290663952333	-0.00064047114816	-0.000010882061903
555	massimi	0.074343	-0.057096	-9.531142	-0.000276801085655	-0.000559639745831	-0.000009976438752
555	minimi	0.069704	-0.062014	-10.052499	-0.000295486665333	-0.000594384658259	-0.00001067942449
556	massimi	0.070866	-0.053798	-9.613765	-0.000305443551359	-0.000530938025995	-0.000010075640933
556	minimi	0.066455	-0.058484	-10.1398	-0.000325794531354	-0.000564014182825	-0.000010786116542
557	massimi	0.067365	-0.053768	-9.506734	-0.000349137093683	-0.000525791279968	-0.00001015898804
557	minimi	0.063185	-0.058452	-10.025704	-0.000372032005418	-0.000558570390519	-0.000010873370144
558	massimi	0.063822	-0.053729	-9.387061	-0.000392268304474	-0.000531971743466	-0.000010202485497
558	minimi	0.059875	-0.05841	-9.89823	-0.000417670272662	-0.00056511568705	-0.000010921352455
559	massimi	0.125584	-0.04009	-10.901149	-0.00039228060211	-0.000297354006693	-0.000013965113813
559	minimi	0.116005	-0.043628	-11.55015	-0.000418423663521	-0.000319045231955	-0.00001506847017
560	massimi	0.125618	-0.04461	-10.795404	-0.000397809187878	-0.00034920403646	-0.000013867671497
560	minimi	0.116036	-0.048505	-11.436782	-0.000424294978802	-0.000374162219173	-0.000014962167809
561	massimi	0.125637	-0.049102	-10.674402	-0.000391246686436	-0.000400491626873	-0.00001387555955
561	minimi	0.116053	-0.053351	-11.307196	-0.000417315852205	-0.000428676568579	-0.000014971097019
562	massimi	0.130533	-0.053572	-10.660154	-0.000356658010768	-0.000435070084753	-0.000013739309182
562	minimi	0.120591	-0.058174	-11.291553	-0.000380548933561	-0.000465432268483	-0.000014823452142
563	massimi	0.135377	-0.0535	-10.76693	-0.000305395060806	-0.000441531226728	-0.00001387877125
563	minimi	0.125081	-0.058096	-11.405519	-0.000326061638428	-0.00047230010626	-0.000014974195825
564	massimi	0.140136	-0.053435	-10.858455	-0.000253640231649	-0.000435974291769	-0.000013488208973
564	minimi	0.129492	-0.058026	-11.503274	-0.00027104917784	-0.000466397664651	-0.000014551682165
565	massimi	0.144865	-0.04902	-11.071342	-0.000218840310699	-0.000401327046266	-0.00001342359601
565	minimi	0.133876	-0.053263	-11.730998	-0.000234056718604	-0.000429568522153	-0.000014481929281
566	massimi	0.14489	-0.04461	-11.192396	-0.000211768850142	-0.00034920403646	-0.000013884035
566	minimi	0.133898	-0.048505	-11.860639	-0.000226534190806	-0.000374162219173	-0.000014979878303
567	massimi	0.144919	-0.040171	-11.298089	-0.000217806395025	-0.0002965185873	-0.000013513150273
567	minimi	0.133925	-0.043716	-11.973952	-0.000232948907289	-0.000318153278381	-0.000014579302433
568	massimi	0.140168	-0.035701	-11.312337	-0.000252684971196	-0.000261629793342	-0.000013649400641
568	minimi	0.129521	-0.038893	-11.989595	-0.000270025643362	-0.000281065323567	-0.000014726947309
569	massimi	0.135377	-0.035638	-11.22087	-0.000305395060806	-0.000255490888993	-0.000013872935247
569	minimi	0.125081	-0.038825	-11.891903	-0.000326061638428	-0.000274539318265	-0.000014967850287
570	massimi	0.130501	-0.035564	-11.114036	-0.000357613271221	-0.000262534000359	-0.00001390050085
570	minimi	0.120562	-0.038745	-11.777874	-0.000381572468038	-0.000282030719735	-0.000014998717286
571	massimi	0.192106	-0.346818	-3.143721	-0.001629204046405	-0.000486121766779	0.000022593579276
571	minimi	0.178906	-0.365375	-3.288104	-0.001709608212978	-0.000514675529629	0.000020768620322
572	massimi	0.192298	-0.339998	-2.9833	-0.001629202597646	-0.000501462264358	0.000023593218812
572	minimi	0.179088	-0.357956	-3.118269	-0.001709610386105	-0.000530863341585	0.000021703046497
573	massimi	0.192499	-0.332965	-2.818108	-0.0016277193279	-0.000515995090541	0.000023312178727
573	minimi	0.179279	-0.350314	-2.9434	-0.001708036444406	-0.000546196127816	0.000021451168099
574	massimi	0.184931	-0.325804	-3.175935	-0.001616886441643	-0.000527084598897	0.000023741939876
574	minimi	0.172316	-0.342535	-3.317324	-0.001696611761769	-0.000557888976858	0.000021856870772
575	massimi	0.177281	-0.325727	-3.698439	-0.001601734764862	-0.00053111353495	0.000023558207952
575	minimi	0.165277	-0.342453	-3.865578	-0.00168063228556	-0.000562123103248	0.000021669995582

576	massimi	0.169521	-0.325623	-4.215984	-0.00158400328209	-0.000531826980158	0.000024097833348
576	minimi	0.158134	-0.342341	-4.408604	-0.001661945928453	-0.000562864956172	0.000022188664686
577	massimi	0.161735	-0.332858	-4.899978	-0.001572062457446	-0.000520376694754	0.000023952763115
577	minimi	0.150968	-0.350199	-5.127819	-0.001649358733104	-0.000550793559091	0.000022048374899
578	massimi	0.161942	-0.339998	-5.065442	-0.001567909801017	-0.000501462264358	0.000023570026223
578	minimi	0.151165	-0.357956	-5.302972	-0.00164498391729	-0.000530863341585	0.000021681424409
579	massimi	0.162127	-0.346926	-5.225591	-0.001570577738941	-0.000481740162567	0.000023234163664
579	minimi	0.151341	-0.365491	-5.472523	-0.001647786964532	-0.000510078098354	0.000021365827122
580	massimi	0.169754	-0.353742	-4.867764	-0.001582631513669	-0.000469943009938	0.000022804402515
580	minimi	0.158355	-0.372907	-5.098599	-0.001660493732306	-0.000497639496984	0.000020960124449
581	massimi	0.177281	-0.353651	-4.350304	-0.001601734764862	-0.000469820738321	0.000023605037083
581	minimi	0.165277	-0.372809	-4.555663	-0.00168063228556	-0.000497496634433	0.000021714475325
582	massimi	0.184698	-0.353561	-3.827715	-0.001618258210065	-0.000474685391199	0.000022448509043
582	minimi	0.172095	-0.372712	-4.007319	-0.001698063957916	-0.000502615476298	0.000020628330535
583	massimi	0.198908	-0.086565	-7.890775	-0.000498802827157	-0.000616903195551	0.000000407041156
583	minimi	0.185382	-0.091653	-8.324973	-0.000525034607207	-0.00065546427764	0.000000358289012
584	massimi	0.198962	-0.086382	-7.683938	-0.00050193696366	-0.00065368357318	0.000000851174423
584	minimi	0.185432	-0.091482	-8.105226	-0.000528353870917	-0.000694427084222	0.000000832661969
585	massimi	0.199008	-0.086146	-7.466321	-0.00049686741513	-0.000689411106834	0.000000580454015
585	minimi	0.185476	-0.091254	-7.874063	-0.000522978562684	-0.000732271424008	0.000000541939894
586	massimi	0.198846	-0.085863	-7.395808	-0.00047270632927	-0.00071357319361	0.00000079840489
586	minimi	0.185301	-0.090978	-7.797637	-0.00049713733647	-0.000758057839542	0.000000774868608
587	massimi	0.198615	-0.085764	-7.543013	-0.000436865049311	-0.000718325221607	0.000000833418869
587	minimi	0.185061	-0.090871	-7.952483	-0.000459425174007	-0.000762889431155	0.000000813686232
588	massimi	0.198259	-0.08566	-7.679476	-0.00040055583667	-0.000715050779844	0.000001173588317
588	minimi	0.184705	-0.09076	-8.095954	-0.000420973046449	-0.00075941809555	0.000001169914887
589	massimi	0.197852	-0.086025	-8.034141	-0.00037585686988	-0.000690606167204	0.000001259608638
589	minimi	0.184301	-0.091125	-8.471206	-0.00039481403055	-0.000733528198427	0.000001249147101
590	massimi	0.197907	-0.086382	-8.251831	-0.000370059259644	-0.00065368357318	0.000000826964149
590	minimi	0.184352	-0.091482	-8.702447	-0.000388673062816	-0.000694427084222	0.000000806678512
591	massimi	0.197952	-0.086686	-8.458595	-0.000373921457853	-0.000615708135181	0.000001075957756
591	minimi	0.184396	-0.091782	-8.922116	-0.000392757986026	-0.000654207503221	0.000001075734241
592	massimi	0.198319	-0.086944	-8.529108	-0.000398767661274	-0.000590811362083	0.000000857783366
592	minimi	0.184761	-0.092034	-8.998542	-0.000419073415683	-0.000627837262885	0.000000843029042
593	massimi	0.198615	-0.086844	-8.392756	-0.000436865049311	-0.000586447517591	0.000000844719703
593	minimi	0.185061	-0.091927	-8.85519	-0.000459425174007	-0.000623208623054	0.00000082565425
594	massimi	0.198786	-0.086741	-8.24544	-0.000474258808323	-0.000592104822567	0.00000048627337
594	minimi	0.185245	-0.091816	-8.700225	-0.000499036967236	-0.000629197518892	0.000000444309333
595	massimi	0.231374	-0.066862	-3.387499	-0.000495317966079	-0.001470582879775	0.000020203771797
595	minimi	0.220023	-0.070971	-3.549933	-0.000525677149089	-0.001546194104131	0.000019130345179
596	massimi	0.231406	-0.060569	-2.907516	-0.000494312114875	-0.001484208051672	0.00002095054795
596	minimi	0.220054	-0.064325	-3.045254	-0.000524628930242	-0.001560624289167	0.000019838886312
597	massimi	0.231444	-0.054238	-2.423763	-0.00049092355534	-0.001495442709916	0.000020332905362
597	minimi	0.220089	-0.057639	-2.536579	-0.000521056486825	-0.001572540882079	0.00001925193715
598	massimi	0.224819	-0.047859	-2.094528	-0.000482517932628	-0.001503612215883	0.000020559698005
598	minimi	0.213817	-0.050903	-2.191914	-0.0005121462784	-0.001581203908355	0.000019467164397
599	massimi	0.218129	-0.047753	-2.249521	-0.000471852675809	-0.001504658520231	0.000020932072093
599	minimi	0.207482	-0.050792	-2.356423	-0.00050082577141	-0.001582324328861	0.00001982135264
600	massimi	0.211303	-0.047632	-2.400915	-0.000460427437758	-0.001505009266966	0.000020097593569
600	minimi	0.201018	-0.050664	-2.517114	-0.000488698618179	-0.001582686742346	0.000019883685641
601	massimi	0.204409	-0.054103	-3.037058	-0.000451695429114	-0.001496733480222	0.000021121088018
601	minimi	0.194489	-0.057497	-3.187532	-0.000479441982799	-0.001573910909351	0.000020001647463
602	massimi	0.204456	-0.060569	-3.520892	-0.000447520498903	-0.001484208051672	0.000020922011512
602	minimi	0.194533	-0.064325	-3.696292	-0.000475034883312	-0.001560624289167	0.000019811742779
603	massimi	0.20448	-0.066997	-4.000794	-0.000447301018375	-0.001469292109469	0.000020991954453
603	minimi	0.194556	-0.071113	-4.200887	-0.000474821320536	-0.001544824076859	0.000019880055492
604	massimi	0.211345	-0.073393	-4.330029	-0.000456367332181	-0.001459989678919	0.00002076516181
604	minimi	0.201057	-0.077867	-4.545551	-0.000484429473181	-0.001534968742066	0.000019664828245
605	massimi	0.218129	-0.073274	-4.178887	-0.000471852675809	-0.001457866904259	0.000020940487369
605	minimi	0.207482	-0.077742	-4.385124	-0.00050082577141	-0.001532730281931	0.000019829276451
606	massimi	0.224777	-0.073165	-4.023643	-0.000486578038205	-0.001461386730002	0.000020327266246
606	minimi	0.213777	-0.077628	-4.220351	-0.000516415423399	-0.001536451576057	0.000019248307001
607	massimi	0.020032	0.020277	-7.938117	0.000005913580741	0.000108847520643	0.000003667196579
607	minimi	0.017997	0.019223	-8.507485	0.000005558275135	0.000099624100041	0.000003520587881
608	massimi	0.02002	0.021477	-7.963958	0.000000972296365	0.00006934634756	0.000003727398145
608	minimi	0.017985	0.020375	-8.535815	0.000000969303578	0.000062968418314	0.000003576289933
609	massimi	0.020009	0.022663	-7.979004	0.000005708261592	0.000029733482999	0.000003624081683
609	minimi	0.017975	0.021514	-8.552513	0.000005371839619	0.000026211317608	0.00000347968467
610	massimi	0.018824	0.023847	-7.977816	0.000032104471537	0.00000333782574	0.000003620998933

610	minimi	0.016837	0.02265	-8.551742	0.000029865642526	0.000001718366539	0.000003475929417
611	massimi	0.017637	0.023856	-7.961584	0.00007171600328	-0.000001395649674	0.000003727649283
611	minimi	0.015698	0.022658	-8.534275	0.000066620689004	-0.00000267272657	0.000003576595858
612	massimi	0.01644	0.023866	-7.934558	0.000111212026901	0.000003550160914	0.000003656406309
612	minimi	0.014549	0.022667	-8.505175	0.000103268434039	0.000001915615618	0.000003507443708
613	massimi	0.015233	0.022675	-7.892413	0.00013755863006	0.000029929664757	0.000003687812586
613	minimi	0.013392	0.021524	-8.459299	0.000127716154647	0.000026393560947	0.000003536408281
614	massimi	0.015223	0.021477	-7.877355	0.00014217806907	0.00006934634756	0.000003725090744
614	minimi	0.013383	0.020375	-8.442589	0.000132004670543	0.000062968418314	0.000003574236234
615	massimi	0.01521	0.020265	-7.851526	0.000137353310911	0.000108651338885	0.000003730927482
615	minimi	0.01337	0.019213	-8.414271	0.000127529719132	0.000099441856702	0.000003577311493
616	massimi	0.016426	0.019048	-7.852714	0.000111022327423	0.00013498287506	0.000003734010232
616	minimi	0.014536	0.018045	-8.415042	0.00010309618162	0.000123876246051	0.000003581066746
617	massimi	0.017637	0.019059	-7.879729	0.00007171600328	0.000139813115817	0.000003724839605
617	minimi	0.015698	0.018055	-8.444129	0.000066620689004	0.000128359647608	0.000003573930309
618	massimi	0.018838	0.019067	-7.895973	0.000032294171015	0.000135195210234	0.000003698602856
618	minimi	0.01685	0.018062	-8.461609	0.000030037894945	0.00012407349513	0.000003549552455
619	massimi	-0.008226	0.015586	-11.320876	-0.000048099589196	0.000274736179294	0.000002473476666
619	minimi	-0.009668	0.014435	-12.357365	-0.000052199389106	0.000248239560273	0.000002386851503
620	massimi	-0.008235	0.016389	-11.391953	-0.000054947035337	0.000215796652215	0.000002468208224
620	minimi	-0.009678	0.015211	-12.436125	-0.000059713271904	0.000194496861578	0.000002384474074
621	massimi	-0.008242	0.017182	-11.447168	-0.00004867545125	0.000156509556044	0.000002440574991
621	minimi	-0.009686	0.015977	-12.497488	-0.000052838315114	0.000140440899926	0.000002356315899
622	massimi	-0.009013	0.01797	-11.496932	-0.000012665477824	0.000116976576086	0.000002418360667
622	minimi	-0.010484	0.016738	-12.552696	-0.000013344928904	0.000104395236802	0.000002336250768
623	massimi	-0.009779	0.017964	-11.491411	0.000046037648578	0.000109708853162	0.000002470017933
623	minimi	-0.011277	0.016732	-12.546462	0.000041476550426	0.000097769614374	0.000002386108697
624	massimi	-0.010539	0.017958	-11.47	0.000105346076329	0.000117112883349	0.000002351516251
624	minimi	-0.012063	0.016727	-12.522803	0.000095551775198	0.000104518039665	0.000002316619341
625	massimi	-0.011298	0.017175	-11.393258	0.000144807617768	0.00015663549372	0.000002399826691
625	minimi	-0.012848	0.01597	-12.43765	0.000131533058817	0.000140554360551	0.000002320980646
626	massimi	-0.011305	0.016389	-11.338036	0.000151605850066	0.000215796652214	0.000002469683531
626	minimi	-0.012856	0.015211	-12.376279	0.000137735519754	0.000194496861578	0.000002385753399
627	massimi	-0.011314	0.015593	-11.266966	0.00014416869176	0.000274610241618	0.000002432728366
627	minimi	-0.012865	0.014442	-12.297527	0.000130957196763	0.000248126099648	0.000002351516251
628	massimi	-0.010548	0.01479	-11.217201	0.00010475575667	0.000313983582959	0.00000245494269
628	minimi	-0.012073	0.013666	-12.242319	0.000095019721898	0.000284027884814	0.000002371581381
629	massimi	-0.009779	0.014785	-11.238579	0.000046037648578	0.000321027975132	0.000002467873822
629	minimi	-0.011277	0.013662	-12.265942	0.000041476550426	0.000290452169465	0.000002384118776
630	massimi	-0.009003	0.014778	-11.244133	-0.000012133424523	0.000314119890222	0.000002477581477
630	minimi	-0.010474	0.013655	-12.272212	-0.000012754609244	0.000284150687678	0.000002391212808
631	massimi	-0.01533	0.00572	-11.505577	-0.000087586891015	0.000382082276276	0.000003055757105
631	minimi	-0.017793	0.0053	-12.562583	-0.000094373496899	0.000345120575326	0.000002938519139
632	massimi	-0.015335	0.006711	-11.607933	-0.000094690532735	0.00032195284446	0.000003051925808
632	minimi	-0.017798	0.006254	-12.676001	-0.000102172284957	0.000290303846691	0.000002938412361
633	massimi	-0.015337	0.007698	-11.694079	-0.000088464616295	0.000261304864945	0.000003042284823
633	minimi	-0.0178	0.007203	-12.771636	-0.000095326727839	0.00023501954526	0.000002925964866
634	massimi	-0.016293	0.008682	-11.787251	-0.000051635120736	0.000220850868577	0.000003021013614
634	minimi	-0.018794	0.00815	-12.874428	-0.000054946450896	0.000198141429372	0.000002907099139
635	massimi	-0.017242	0.00867	-11.794144	0.000005879304852	0.000213274021928	0.000003053658686
635	minimi	-0.019781	0.00814	-12.881437	0.000003810319587	0.000191234461757	0.000002939949273
636	massimi	-0.018181	0.00866	-11.784777	0.000066695591199	0.000220868275894	0.000002981303416
636	minimi	-0.020755	0.008131	-12.870611	0.000059249622885	0.000198152710883	0.000002872485138
637	massimi	-0.019116	0.007685	-11.689126	0.00010707180136	0.000261320947999	0.000002970809129
637	minimi	-0.021725	0.007192	-12.763994	0.000096058282802	0.000235029968529	0.000002863661987
638	massimi	-0.019119	0.006711	-11.60298	0.000113907560265	0.00032195284446	0.000003054513612
638	minimi	-0.021728	0.006254	-12.668358	0.000102296049117	0.000290303846691	0.000002940668059
639	massimi	-0.019123	0.005733	-11.500624	0.00010611857042	0.000382066193222	0.000002984281411
639	minimi	-0.021732	0.005311	-12.554942	0.000095198757522	0.000345110152057	0.000002876216259
640	massimi	-0.018185	0.004749	-11.407452	0.000065814877382	0.000422296166836	0.000003005552621
640	minimi	-0.020759	0.004364	-12.452149	0.000058455486062	0.000381786603188	0.000002895081987
641	massimi	-0.017242	0.00474	-11.416769	0.000005879304852	0.000429353867151	0.000003052780735
641	minimi	-0.019781	0.004356	-12.462921	0.000003810319587	0.000388221043609	0.000002939131146
642	massimi	-0.016289	0.004728	-11.409926	-0.000050840983913	0.000422313574153	0.000003045262819
642	minimi	-0.01879	0.004345	-12.455967	-0.000054065737078	0.000381797884699	0.000002929695987
643	massimi	-0.031039	-0.001165	-11.526236	-0.000093085734576	0.000388860676151	0.000005296906142
643	minimi	-0.034461	-0.001315	-12.585649	-0.000101026347869	0.000350888760189	0.00000502344023
644	massimi	-0.031041	0.000464	-11.630445	-0.000100209058774	0.000328598237096	0.000005294825126
644	minimi	-0.034464	0.000402	-12.701245	-0.000108847452209	0.000295954011509	0.000005024497694

645	massimi	-0.031039	0.002118	-11.718406	-0.000093961988741	0.000267806547057	0.000005296099913
645	minimi	-0.034462	0.002093	-12.799016	-0.000101999254343	0.000240542589693	0.000005022508817
646	massimi	-0.03268	0.003833	-11.815139	-0.000057065155825	0.000227252663404	0.000005265339821
646	minimi	-0.036192	0.003719	-12.906059	-0.0000615221385	0.000203576383243	0.000004994589444
647	massimi	-0.034308	0.003811	-11.823771	-0.00000054532097	0.000219642936311	0.000005297331024
647	minimi	-0.037908	0.003699	-12.915176	-0.000001486437999	0.000196641134481	0.00000502677217
648	massimi	-0.035914	0.003792	-11.816104	0.000060432374873	0.000227251048829	0.000005189239374
648	minimi	-0.039601	0.003682	-12.906413	0.000054094673932	0.000203571982229	0.000004925716574
649	massimi	-0.037513	0.002094	-11.720338	0.00010090986792	0.000267805055311	0.000005159124211
649	minimi	-0.041284	0.00207	-12.799725	0.000090992535035	0.000240538523488	0.000004898542269
650	massimi	-0.037512	0.000464	-11.632377	0.000107758974596	0.000328598237096	0.000005299784381
650	minimi	-0.041283	0.000402	-12.701954	0.000097242082306	0.000295954011509	0.000005028985948
651	massimi	-0.037513	-0.001143	-11.528168	0.000099936961446	0.000388862167897	0.00000515993044
651	minimi	-0.041284	-0.001291	-12.586357	0.00009011628087	0.000350892826395	0.000004899473682
652	massimi	-0.035915	-0.002755	-11.431435	0.00005953348234	0.000429188879193	0.000005190690532
652	minimi	-0.039601	-0.002989	-12.479314	0.000053285080876	0.000387654652854	0.000004927393055
653	massimi	-0.034308	-0.002772	-11.439051	-0.00000054532097	0.000436249363116	0.000005297278484
653	minimi	-0.037908	-0.003008	-12.488022	-0.000001486437999	0.00039409227556	0.000005026711472
654	massimi	-0.032679	-0.002792	-11.43047	-0.000056255562769	0.000429187264619	0.000005266790979
654	minimi	-0.036191	-0.003031	-12.47896	-0.000060623245967	0.000387650251841	0.000004996265925
655	massimi	-0.056035	-0.010975	-11.482265	-0.000109025172575	0.000312429246691	0.000007191936129
655	minimi	-0.061712	-0.011808	-12.535297	-0.000117724779205	0.000279581756063	0.000006777166883
656	massimi	-0.056034	-0.008781	-11.563361	-0.000115995468266	0.0002524489456	0.000007171018673
656	minimi	-0.061711	-0.00948	-12.626122	-0.00012538008935	0.000224894570902	0.000006761316581
657	massimi	-0.056025	-0.006582	-11.628295	-0.000109691035502	0.000192062042046	0.000007210967126
657	minimi	-0.061702	-0.007146	-12.699219	-0.000118472224521	0.000169845163247	0.000006794795228
658	massimi	-0.058244	-0.004383	-11.707227	-0.000072996571213	0.000151750239264	0.000007165272414
658	minimi	-0.064057	-0.004814	-12.787071	-0.000078223426344	0.000133094091597	0.000006753314197
659	massimi	-0.060443	-0.004419	-11.721111	-0.000017684585613	0.000144217374875	0.000007174741231
659	minimi	-0.06639	-0.004853	-12.801699	-0.000017810653491	0.000126228119294	0.000006764695869
660	massimi	-0.062604	-0.00445	-11.718792	0.000042882738486	0.00015169787913	0.000007031995061
660	minimi	-0.068681	-0.004887	-12.798554	0.000037403950648	0.000133041358204	0.000006663197458
661	massimi	-0.064748	-0.006621	-11.651445	0.000083143769295	0.000192013665213	0.000006971076827
661	minimi	-0.070954	-0.00719	-12.722205	0.00007411073477	0.000169796441551	0.000006576392053
662	massimi	-0.064742	-0.008781	-11.586514	0.000090081106542	0.0002524489456	0.000007179703988
662	minimi	-0.070948	-0.00948	-12.64911	0.000080444850052	0.000224894570902	0.000006769223947
663	massimi	-0.064739	-0.010936	-11.505415	0.000082396323978	0.000312477623524	0.00000695204583
663	minimi	-0.070943	-0.011764	-12.558283	0.000073444871843	0.000279630477759	0.000006558763707
664	massimi	-0.062598	-0.013097	-11.426483	0.000042192155134	0.000352618787763	0.000006997740543
664	minimi	-0.068675	-0.014055	-12.470431	0.000036788743298	0.000316229998941	0.000006600244739
665	massimi	-0.060443	-0.013128	-11.428764	-0.000017684585613	0.000359678570767	0.000007175981429
665	minimi	-0.06639	-0.01409	-12.473533	-0.000017810653491	0.000322668437612	0.000006765844659
666	massimi	-0.05825	-0.013163	-11.414918	-0.000072381363864	0.000352566427629	0.000007131017895
666	minimi	-0.064063	-0.014128	-12.458948	-0.000077532842992	0.000316177265548	0.000006721584356
667	massimi	-0.020475	0.045763	-6.778236	0.000043067551307	0.000091800751383	-0.000001273187553
667	minimi	-0.022446	0.043012	-7.025964	0.000037366199704	0.000089602607596	-0.000001467041053
668	massimi	-0.019684	0.04461	-6.748764	0.000137685782067	-0.000028615766528	-0.000001625637009
668	minimi	-0.021536	0.042001	-6.991984	0.000128192720634	-0.000031343409602	-0.000001845283634
669	massimi	-0.019684	0.046721	-6.63556	0.000137685782067	0.000213755051874	-0.000001138067869
669	minimi	-0.021536	0.04384	-6.876002	0.000128192720634	0.00020665961211	-0.000001326530205
670	massimi	-0.020435	0.046719	-6.691671	0.000084729416494	0.000179987121745	-0.000001343084446
670	minimi	-0.022402	0.043839	-6.93674	0.000077345373092	0.000174246375186	-0.00000155248826
671	massimi	-0.018854	0.045763	-6.635664	0.000232332411906	0.000091800751383	-0.000001491512467
671	minimi	-0.020585	0.043012	-6.872833	0.000219045682603	0.000089602607596	-0.000001705914878
672	massimi	-0.018824	0.044619	-6.662508	0.000192608414848	0.000006413281569	-0.00000162913528
672	minimi	-0.020554	0.042009	-6.899842	0.000180900785199	0.000005146756942	-0.000001858631261
673	massimi	-0.0189	0.04675	-6.549899	0.000191941372669	0.000179070684228	-0.000001402653545
673	minimi	-0.020635	0.043867	-6.78447	0.000180249715161	0.000173393123552	-0.000001617664049
674	massimi	-0.02051	0.04465	-6.80428	0.000084062374315	0.000005560029935	-0.000001569566181
674	minimi	-0.022483	0.042037	-7.052112	0.000076694303055	0.000004230319425	-0.000001793455472
675	massimi	0.044472	0.091688	-7.153942	0.000045472279459	0.000054332837518	0.000004409857555
675	minimi	0.040058	0.086003	-7.431721	0.000037679914707	0.000042527257002	0.000004047414904
676	massimi	0.04179	0.094582	-7.090371	0.000146361561846	-0.000076690982579	0.000004120274457
676	minimi	0.037598	0.088652	-7.368227	0.000134329723864	-0.000082928305282	0.000003766945395
677	massimi	0.04179	0.088406	-7.036642	0.000146361561846	0.000184652411696	0.000005159624723
677	minimi	0.037598	0.082989	-7.299582	0.000134329723864	0.000167431593756	0.000004741849867
678	massimi	0.04454	0.088488	-7.095024	0.000089735238194	0.000148216434187	0.000005168183201
678	minimi	0.040122	0.083065	-7.363953	0.000080020897436	0.000132413686616	0.000004744917458
679	massimi	0.039029	0.091688	-7.004544	0.000247281057508	0.000054332837518	0.000004873385039

679	minimi	0.035067	0.086003	-7.268942	0.000231007262573	0.000042527257002	0.000004464445956
680	massimi	0.039134	0.094634	-6.999912	0.000204763789093	-0.000038212027034	0.000004811861923
680	minimi	0.035165	0.0887	-7.270372	0.000190215136206	-0.000046179733963	0.000004405845824
681	massimi	0.038972	0.088429	-6.946465	0.000204368995524	0.000147242246271	0.000005294654124
681	minimi	0.035013	0.083012	-7.202088	0.000189906124412	0.000131519583054	0.000004858702086
682	massimi	0.044379	0.094574	-7.148471	0.000089340444625	-0.00003918621495	0.000004685391001
682	minimi	0.03997	0.088646	-7.432237	0.000079711885643	-0.000047073837524	0.000004292061197
683	massimi	-0.046118	0.024576	-8.348309	-0.000054607135279	0.000152964613499	0.000001581247349
683	minimi	-0.052751	0.022934	-8.729393	-0.000055136088245	0.000148526942714	0.00000156214237
684	massimi	-0.046926	0.025378	-8.389126	0.000066753715499	-0.000002632749772	0.000001171440828
684	minimi	-0.053555	0.023751	-8.769056	0.000061368661185	-0.000005883211276	0.000001144483634
685	massimi	-0.046926	0.023669	-8.201477	0.000066753715499	0.00030982981234	0.00000143141393
685	minimi	-0.053555	0.022019	-8.5758	0.000061368661185	0.000297761527413	0.000001423069183
686	massimi	-0.046109	0.023646	-8.21666	-0.000001855441769	0.000266306470836	0.000001531004451
686	minimi	-0.052742	0.021999	-8.592995	-0.000003910786616	0.000256372196841	0.000001526375061
687	massimi	-0.047645	0.024576	-8.280056	0.00018865728787	0.000152964613499	0.000001041649613
687	minimi	-0.054257	0.022934	-8.655151	0.000177357115552	0.000148526942714	0.000000987229982
688	massimi	-0.047626	0.025346	-8.335454	0.000137104242229	0.000042086702386	0.000001268229404
688	minimi	-0.054237	0.023723	-8.71141	0.000128306419232	0.000041093387532	0.000001234893406
689	massimi	-0.047666	0.023722	-8.148791	0.000135992771488	0.000265862157644	0.000001388990039
689	minimi	-0.054281	0.022066	-8.51917	0.000127227193473	0.000255963726608	0.000001364299747
690	massimi	-0.04615	0.025422	-8.403323	-0.000002966912509	0.000041678232153	0.000001410243816
690	minimi	-0.052785	0.02379	-8.785235	-0.000004990012374	0.000040649074341	0.000001396968721
691	massimi	0.026081	0.075648	-10.361599	-0.000053761974607	0.000141133682646	0.00000427921993
691	minimi	0.022235	0.070429	-10.904337	-0.000056274014872	0.000120849349151	0.000003960405628
692	massimi	0.023518	0.078421	-10.363405	0.000101842311305	-0.000061302938025	0.000003979296911
692	minimi	0.019867	0.072988	-10.911525	0.000090936060191	-0.000070583808281	0.000003669937007
693	massimi	0.023518	0.072554	-10.210722	0.000101842311305	0.00034174097092	0.000004836820634
693	minimi	0.019867	0.067571	-10.733215	0.000090936060191	0.000310716093624	0.000004468299365
694	massimi	0.026134	0.072616	-10.236981	0.000014137027842	0.000285701112877	0.000004904215515
694	minimi	0.022283	0.067628	-10.764179	0.000007890864184	0.000257556926291	0.00000453148672
695	massimi	0.02091	0.075648	-10.260462	0.000257467620425	0.000141133682646	0.000004540073936
695	minimi	0.017461	0.070429	-10.791071	0.000238164907096	0.000120849349151	0.000004180762835
696	massimi	0.020997	0.078454	-10.288292	0.000191534114626	-0.000001808950109	0.000004577056773
696	minimi	0.017542	0.073017	-10.828922	0.000175717471379	-0.000014442119918	0.000004220759901
697	massimi	0.020864	0.072583	-10.136413	0.000190508608269	0.000285023246723	0.000004975388095
697	minimi	0.017418	0.0676	-10.651549	0.00017483935516	0.000256951652544	0.000004591609971
698	massimi	0.026	0.078421	-10.388861	0.000013111521485	-0.000002486816263	0.000004505884193
698	minimi	0.022159	0.072989	-10.941552	0.000007012747965	-0.000015047393665	0.00000416063665
699	massimi	0.066816	0.13066	-10.543269	-0.000200741641925	0.000088963012273	0.00001671310531
699	minimi	0.059203	0.123327	-11.054288	-0.000208190961457	0.000074227019785	0.000015677046613
700	massimi	0.061175	0.124885	-10.550917	-0.000097672931123	0.000197319230933	0.000017600440511
700	minimi	0.053914	0.117915	-11.057834	-0.000099834809903	0.000177295875307	0.000016496880369
701	massimi	0.066856	0.12494	-10.507011	-0.000163215232331	0.000157828807325	0.000017680311777
701	minimi	0.05924	0.117965	-11.01261	-0.000168726458488	0.000139713565755	0.000016574878419
702	massimi	0.061175	0.136252	-10.599341	-0.000097672931123	-0.000019394304643	0.000016391700912
702	minimi	0.053914	0.128567	-11.115872	-0.000099834809903	-0.000028842752077	0.000015355976616
703	massimi	0.055449	0.13066	-10.606989	0.00000852257412	0.000088963012273	0.000017279036113
703	minimi	0.048551	0.123327	-11.119418	0.000005396985459	0.000074227019785	0.000016175810372
704	massimi	0.055519	0.136277	-10.618957	-0.000031128354051	0.000020230702888	0.000017445351251
704	minimi	0.048617	0.128589	-11.13556	-0.000032331463101	0.000008829796526	0.000016340162355
705	massimi	0.055425	0.124896	-10.570618	-0.000031264829477	0.000157981960842	0.000017887171733
705	minimi	0.048528	0.117926	-11.077625	-0.000032445332494	0.0001398634028	0.000016757187367
706	massimi	0.066762	0.136233	-10.55535	-0.000163329101723	0.000020383856405	0.000017238491295
706	minimi	0.059151	0.12855	-11.070545	-0.000168862933914	0.000008979633571	0.000016157853407
707	massimi	-0.051564	0.006415	-8.51662	-0.000106384081963	0.000231729216124	0.000001388662241
707	minimi	-0.058726	0.006028	-8.914558	-0.00011223178815	0.000220622517177	0.000001235155015
708	massimi	-0.052168	0.007106	-8.629572	0.000014027315068	0.000068025883843	0.000001022479248
708	minimi	-0.059403	0.006644	-9.032751	0.000012653448254	0.000065037150494	0.000000911333398
709	massimi	-0.052168	0.005696	-8.350837	0.000014027315068	0.000392429027896	0.000001095194905
709	minimi	-0.059403	0.005386	-8.739984	0.000012653448254	0.000373348321022	0.000000979660153
710	massimi	-0.051569	0.00566	-8.338815	-0.00005433620426	0.000348259373578	0.000001245499902
710	minimi	-0.058732	0.005354	-8.727727	-0.00005645690902	0.000331371257907	0.00000111640747
711	massimi	-0.052673	0.006415	-8.502547	0.000139280702226	0.000231729216124	0.000000729774435
711	minimi	-0.059968	0.006028	-8.898957	0.000131693588372	0.000220622517177	0.000000656519436
712	massimi	-0.052671	0.007063	-8.602091	0.00008632769286	0.000116847214939	0.000001031947644
712	minimi	-0.059966	0.006606	-9.003443	0.000081365587002	0.000111438267699	0.000000922023693
713	massimi	-0.052682	0.005745	-8.324821	0.000084643903142	0.000348166007672	0.000001065724942
713	minimi	-0.059977	0.005428	-8.712214	0.000079762500727	0.000331287036468	0.000000953762293

714	massimi	-0.05158	0.007147	-8.616085	-0.000055939290535	0.000116753849033	0.000001211722604
714	minimi	-0.058744	0.006681	-9.018956	-0.000058140698739	0.00011135404626	0.000001079902147
715	massimi	0.013618	0.042267	-11.440393	-0.000162183846185	0.000190502236448	0.000001929695981
715	minimi	0.010287	0.039399	-12.113054	-0.000168832880085	0.000168655851455	0.000001836882809
716	massimi	0.012458	0.043507	-11.518605	0.000006518775911	-0.000037814537867	0.000001758501626
716	minimi	0.009189	0.040572	-12.201224	0.000002678977434	-0.000045935735191	0.000001663851542
717	massimi	0.012458	0.040848	-11.305523	0.000006518775911	0.000416349778004	0.000002237630273
717	minimi	0.009189	0.03806	-11.960541	0.000002678977434	0.00038106137162	0.00000211047275
718	massimi	0.013649	0.040881	-11.280211	-0.000090665602201	0.000353151334566	0.000002241245265
718	minimi	0.010315	0.038089	-11.935684	-0.000092707049721	0.00032152906173	0.000002119370797
719	massimi	0.011274	0.042267	-11.437414	0.000181871777571	0.000190502236448	0.000002067875668
719	minimi	0.008073	0.039399	-12.105804	0.000167542354072	0.000168655851455	0.000001938801318
720	massimi	0.011321	0.043527	-11.489209	0.000107190343017	0.000029174695385	0.000002056385121
720	minimi	0.008116	0.040588	-12.167892	0.00009727432477	0.000016932062867	0.000001939717133
721	massimi	0.011246	0.040863	-11.277248	0.000105806114597	0.000353107945354	0.000002278946832
721	minimi	0.008047	0.038076	-11.928474	0.000096048836675	0.000321511230358	0.000002147178702
722	massimi	0.013575	0.043509	-11.492172	-0.000091891090296	0.000029131306173	0.000002018683553
722	minimi	0.010246	0.040575	-12.175101	-0.000094091278141	0.000016914231495	0.000001911909229
723	massimi	0.043145	0.119578	-12.98686	-0.000129342661281	0.00028484076063	0.00000471384838
723	minimi	0.03746	0.112781	-13.694547	-0.000131761094957	0.000245106123666	0.000004111125895
724	massimi	0.041534	0.117855	-12.907348	0.000003528134158	0.000420128209777	0.000005459074671
724	minimi	0.036054	0.111272	-13.600483	-0.000001349288723	0.000373097991625	0.000004799565571
725	massimi	0.043189	0.11789	-12.891968	-0.000082146987621	0.000371201634214	0.000005201512114
725	minimi	0.037501	0.111303	-13.585855	-0.000082430400759	0.000326766898393	0.000004550272566
726	massimi	0.041534	0.121136	-13.067252	0.000003528134158	0.000149549795102	0.000004352850004
726	minimi	0.036054	0.114133	-13.786308	-0.000001349288723	0.000117111229851	0.000003756226011
727	massimi	0.039864	0.119578	-12.98774	0.000138817319718	0.00028484076063	0.000005098076294
727	minimi	0.034599	0.112781	-13.692245	0.000126644100493	0.000245106123666	0.000004444665687
728	massimi	0.039917	0.121162	-13.052467	0.000089651589066	0.000199403057527	0.000004937606675
728	minimi	0.034648	0.114157	-13.769053	0.00008010348568	0.000164233011954	0.00000429082539
729	massimi	0.039831	0.11786	-12.892847	0.0000892146236	0.000371196221812	0.000005341955731
729	minimi	0.034567	0.111278	-13.583557	0.0000797274759	0.000326768968295	0.000004672188578
730	massimi	0.043103	0.121132	-13.051588	-0.000082583953088	0.000199397645125	0.000004797163058
730	minimi	0.03742	0.114131	-13.771351	-0.000082806410539	0.000164235081856	0.000004168909378
731	massimi	-0.066904	0.000032	-8.510917	-0.000113906709672	0.000225176169537	-0.000003325811849
731	minimi	-0.075091	-0.000023	-8.908066	-0.000119658926693	0.000213974947191	-0.000003559064567
732	massimi	-0.064805	-0.00242	-8.62387	0.00000556451446	0.00006155146897	-0.000003684066466
732	minimi	-0.072837	-0.00266	-9.026831	0.000005108026455	0.000058463187328	-0.00000396145176
733	massimi	-0.064805	0.002614	-8.353533	0.00000556451446	0.000385882285842	-0.000003683708158
733	minimi	-0.072837	0.002483	-8.742343	0.000005108026455	0.000366713305612	-0.000003961713067
734	massimi	-0.066899	0.002548	-8.337321	-0.000061927941295	0.000341630381678	-0.000003863683067
734	minimi	-0.075086	0.002425	-8.725389	-0.000064967528412	0.000324654500019	-0.000004150320289
735	massimi	-0.062583	0.000032	-8.505236	0.00013078910335	0.000225176169537	-0.000004044615731
735	minimi	-0.070444	-0.000023	-8.901878	0.000124123816164	0.000213974947191	-0.000004366953199
736	massimi	-0.062606	-0.002454	-8.600587	0.000077785238981	0.00011026981745	-0.000004059972332
736	minimi	-0.070469	-0.002698	-9.002229	0.000073746978093	0.000104765061274	-0.000004370628161
737	massimi	-0.062606	0.002652	-8.331671	0.000076149064979	0.000341593344232	-0.000004059805894
737	minimi	-0.070469	0.002517	-8.719235	0.000072192194359	0.000324620500959	-0.000004370749541
738	massimi	-0.066899	-0.002362	-8.606237	-0.00006348272503	0.000110232780003	-0.000003863849505
738	minimi	-0.075085	-0.002594	-9.008383	-0.000066603702414	0.000104731062214	-0.000004150198908
739	massimi	-0.007548	0.020013	-11.615167	-0.000207644639814	0.000188482526307	-0.000001282503405
739	minimi	-0.009671	0.019035	-12.306244	-0.000219481832375	0.000166581640747	-0.000001410805771
740	massimi	-0.006706	0.019007	-11.715116	-0.000039674964642	-0.000044266670132	-0.000001439258162
740	minimi	-0.008898	0.018108	-12.418832	-0.000040692489517	-0.00005201423065	-0.000001560902595
741	massimi	-0.006706	0.020933	-11.504655	-0.000039674964642	0.000418788668862	-0.000001223486736
741	minimi	-0.008898	0.01988	-12.180701	-0.000040692489517	0.00038301833096	-0.00000133404557
742	massimi	-0.007526	0.020932	-11.455401	-0.000134995288024	0.000354138920112	-0.000001368242386
742	minimi	-0.00965	0.019877	-12.129162	-0.000142105064786	0.000322172970693	-0.000001493846392
743	massimi	-0.00585	0.020013	-11.659293	0.00013808845323	0.000188482526307	-0.000001381200841
743	minimi	-0.008109	0.019035	-12.351501	0.000128286520465	0.000166581640747	-0.000001485185403
744	massimi	-0.005839	0.019015	-11.708633	0.000061705652444	0.000023819898472	-0.000001495400173
744	minimi	-0.008099	0.018114	-12.411043	0.000056481390752	0.000011843906257	-0.00000161951861
745	massimi	-0.005875	0.020942	-11.499278	0.000060336099653	0.000354409770812	-0.000001395171439
745	minimi	-0.008132	0.01989	-12.174165	0.000055270974299	0.000322437048711	-0.000001514140465
746	massimi	-0.007561	0.019025	-11.664755	-0.000136205704477	0.000024090749172	-0.000001468471121
746	minimi	-0.009683	0.018127	-12.366604	-0.000143474617577	0.000012107984275	-0.000001599224536
747	massimi	0.066042	0.019909	-14.067619	-0.000419304492629	0.000021211028258	0.000002915166369
747	minimi	0.059839	0.01959	-14.838988	-0.00044380094074	-0.000005035797328	0.000001492186435
748	massimi	0.065488	0.019295	-14.160337	-0.00027920924628	0.000169333653353	0.000003277828176

748	minimi	0.058814	0.018511	-14.928518	-0.000295680009816	0.000135061203535	0.000001887192603
749	massimi	0.066057	0.019323	-14.052912	-0.000368614800497	0.000115066106481	0.000003227178574
749	minimi	0.059851	0.018537	-14.814798	-0.00039018778534	0.000083693811754	0.000001777901221
750	massimi	0.065488	0.020642	-14.157052	-0.00027920924628	-0.000126911858689	0.000003096598154
750	minimi	0.058814	0.020496	-14.942356	-0.000295680009816	-0.000145132736023	0.000001703010059
751	massimi	0.064842	0.019909	-14.249771	-0.00013911055307	0.000021211028258	0.000003459259961
751	minimi	0.057708	0.01959	-15.031885	-0.000147555428698	-0.000005035797328	0.000002098016228
752	massimi	0.064859	0.020663	-14.231461	-0.000190711030641	-0.000073029301572	0.000003359813062
752	minimi	0.057725	0.02052	-15.021167	-0.000202092377287	-0.000094209958102	0.000001932022415
753	massimi	0.064845	0.019276	-14.234741	-0.000190703305379	0.000115519700107	0.000003426056557
753	minimi	0.057711	0.018495	-15.007354	-0.000202124916474	0.000084122138087	0.000001999345121
754	massimi	0.066042	0.020621	-14.049632	-0.000368607075235	-0.000072575707947	0.000003160935079
754	minimi	0.059837	0.020473	-14.828612	-0.000390220324528	-0.000093781631769	0.000001710578515
755	massimi	-0.091248	-0.008329	-8.407966	-0.000132953773273	0.000130116387852	-0.000010041592256
755	minimi	-0.101377	-0.008966	-8.792408	-0.000140315876824	0.00012477393268	-0.000010531538935
756	massimi	-0.085164	-0.015306	-8.47619	-0.000015369287834	-0.00002830483198	-0.000010462909869
756	minimi	-0.094984	-0.016304	-8.86377	-0.000016705683408	-0.000030800127706	-0.000011003510657
757	massimi	-0.085164	-0.001317	-8.318551	-0.000015369287834	0.000289346421033	-0.000010557329098
757	minimi	-0.094984	-0.00159	-8.699381	-0.000016705683408	0.000276235460325	-0.000011105144802
758	massimi	-0.091226	-0.001416	-8.290956	-0.000082009513473	0.00024468516372	-0.000011196143621
758	minimi	-0.101355	-0.001698	-8.670066	-0.000086767316806	0.00023376289175	-0.000011768228249
759	massimi	-0.078919	-0.008329	-8.425059	0.000106901064292	0.000130116387852	-0.000010986215586
759	minimi	-0.08841	-0.008966	-8.810988	0.000102212027535	0.00012477393268	-0.000011585077312
760	massimi	-0.078979	-0.015336	-8.464765	0.000054143763567	0.000016519847942	-0.000011410021533
760	minimi	-0.088474	-0.016338	-8.852066	0.000052032542501	0.000016309436534	-0.00001200847179
761	massimi	-0.078964	-0.001295	-8.307954	0.000053198312494	0.000244796356865	-0.000011453880401
761	minimi	-0.088458	-0.001563	-8.688541	0.00005112591075	0.000233865189836	-0.000012055682073
762	massimi	-0.091211	-0.015214	-8.447768	-0.000082916145224	0.000016622146028	-0.000011152284753
762	minimi	-0.101339	-0.016203	-8.833591	-0.000087712767879	0.000016420629678	-0.000011721017965
763	massimi	-0.021091	-0.002693	-11.340179	-0.000254652727207	0.00010446451485	-0.000001785604797
763	minimi	-0.021519	-0.003311	-12.006161	-0.000270187647525	0.000088409556505	-0.000002168938209
764	massimi	-0.019774	-0.003951	-11.419658	-0.000090537077516	-0.000122279712721	-0.000001882928992
764	minimi	-0.020425	-0.00482	-12.0969	-0.000095609191915	-0.000124681912352	-0.000002259018385
765	massimi	-0.019774	-0.001424	-11.30796	-0.000090537077516	0.000329854704761	-0.000001913459107
765	minimi	-0.020425	-0.001788	-11.964918	-0.000095609191915	0.00030035508725	-0.000002296548211
766	massimi	-0.021088	-0.001446	-11.230962	-0.000184181642963	0.000265761085024	-0.00000201759307
766	minimi	-0.021516	-0.001811	-11.883432	-0.000195182732838	0.000240004219185	-0.000002428431399
767	massimi	-0.018419	-0.002693	-11.440871	0.000078949527184	0.00010446451485	-0.000002012151086
767	minimi	-0.019292	-0.003311	-12.112495	0.000073559882694	0.000088409556505	-0.000002388269692
768	massimi	-0.018434	-0.00396	-11.442199	0.000003821213669	-0.000056767532736	-0.000002065223328
768	minimi	-0.019305	-0.004828	-12.120457	0.000002895555901	-0.000063194543567	-0.000002470841677
769	massimi	-0.018428	-0.001417	-11.331089	0.000003062153025	0.000266397463307	-0.000002079404978
769	minimi	-0.0193	-0.001783	-11.989169	0.000002253153885	0.000240606837289	-0.000002488274787
770	massimi	-0.021082	-0.003931	-11.342072	-0.000184824044979	-0.000056131154453	-0.00000200341142
770	minimi	-0.021512	-0.004799	-12.01472	-0.000195941793483	-0.000062591925463	-0.000002410998289
771	massimi	0.133019	-0.064646	-13.11489	-0.000537069202832	-0.000526139760244	0.000006325375222
771	minimi	0.124247	-0.068978	-13.808633	-0.000566701805497	-0.000533368687339	0.000005333643113
772	massimi	0.131124	-0.066905	-13.419074	-0.000406390282814	-0.000395440316189	0.000006590795672
772	minimi	0.122028	-0.070916	-14.122478	-0.000428779373245	-0.000395455084146	0.000005621101688
773	massimi	0.133006	-0.066864	-13.271045	-0.000490422213305	-0.000444325420385	0.000006803954446
773	minimi	0.124234	-0.070873	-13.966301	-0.000517452134405	-0.000446983949543	0.000005799926017
774	massimi	0.131124	-0.062297	-13.075829	-0.000406390282814	-0.000656817941103	0.00000718883883
774	minimi	0.122028	-0.066943	-13.774517	-0.000428779373245	-0.000671290474008	0.000006259216803
775	massimi	0.129046	-0.064646	-13.380012	-0.000275706345875	-0.000526139760243	0.00000745425928
775	minimi	0.119639	-0.068978	-14.088362	-0.000290851647677	-0.000533368687339	0.000006546675378
776	massimi	0.129044	-0.062268	-13.19306	-0.000324474878304	-0.000610272755385	0.000007435183716
776	minimi	0.119638	-0.06691	-13.898189	-0.000342306365482	-0.000622129718466	0.000006476560445
777	massimi	0.129094	-0.066951	-13.535697	-0.000323667743451	-0.000443701989528	0.000007216586
777	minimi	0.119684	-0.070967	-14.245534	-0.000341488140953	-0.00044632617227	0.000006243315561
778	massimi	0.133056	-0.062356	-12.928408	-0.000489615078451	-0.000609649324529	0.000007022552163
778	minimi	0.12428	-0.067005	-13.618956	-0.000516633909876	-0.000621471941193	0.000006033170901
779	massimi	-0.149712	-0.028936	-7.578129	-0.000200035667099	0.00007126275331	0.000004500814062
779	minimi	-0.16103	-0.031041	-7.88143	-0.000212787855751	0.000062548801717	0.00000403454657
780	massimi	-0.151728	-0.02675	-7.653181	-0.000094733963149	-0.000071786112435	0.000003769856564
780	minimi	-0.163293	-0.028584	-7.965617	-0.000102671658125	-0.000074209870713	0.00000335935035
781	massimi	-0.151728	-0.030999	-7.574157	-0.000094733963148	0.000213387958479	0.00000341797853
781	minimi	-0.163293	-0.033368	-7.875584	-0.000102671658125	0.000198496758037	0.000003027925066
782	massimi	-0.149771	-0.031108	-7.504509	-0.000154968984881	0.000172874230379	0.000004030434223
782	minimi	-0.161093	-0.033485	-7.800777	-0.000165656216525	0.000159710653177	0.000003586162192

783	massimi	-0.153456	-0.028936	-7.68349	0.000010548200968	0.00007126275331	0.000002689609196
783	minimi	-0.165246	-0.031041	-7.995619	0.000007423362438	0.000062548801717	0.000002351612203
784	massimi	-0.15349	-0.026881	-7.687887	-0.00003493837442	-0.000030553968602	0.000003699705643
784	minimi	-0.165281	-0.028725	-8.003885	-0.000040138116813	-0.00003482392761	0.000003279344713
785	massimi	-0.153439	-0.030892	-7.609278	-0.000035392866223	0.000173557613645	0.000003536254061
785	minimi	-0.165226	-0.033252	-7.914325	-0.000040655925889	0.000160341203091	0.000003126980134
786	massimi	-0.14972	-0.026665	-7.583119	-0.000155423476684	-0.000029870585336	0.000004193885805
786	minimi	-0.161039	-0.028492	-7.890338	-0.000166174025601	-0.000034193377697	0.000003738526771
787	massimi	-0.008527	-0.027793	-9.706028	-0.000307581737924	-0.000007403843633	-0.000001475476415
787	minimi	-0.009017	-0.029895	-10.24179	-0.000326172047834	-0.000008149599406	-0.000001817281088
788	massimi	-0.007445	-0.028746	-9.7723	-0.000168344701389	-0.000187646029604	-0.000001362506733
788	minimi	-0.008133	-0.031068	-10.31184	-0.000178464846255	-0.000199354506377	-0.000001688455127
789	massimi	-0.007445	-0.026723	-9.781654	-0.000168344701389	0.000183160940225	-0.000001677564376
789	minimi	-0.008133	-0.028596	-10.322137	-0.000178464846255	0.000172934308734	-0.000002027341014
790	massimi	-0.008547	-0.026745	-9.665442	-0.000248519389739	0.000127662202132	-0.000001695585682
790	minimi	-0.009037	-0.028619	-10.198921	-0.000263517288078	0.000120620470635	-0.000002065515761
791	massimi	-0.006348	-0.027793	-9.893256	-0.000029142416086	-0.000007403843633	-0.000001565689988
791	minimi	-0.007234	-0.029895	-10.440274	-0.000030794484999	-0.000008149599406	-0.000001899853802
792	massimi	-0.006382	-0.028758	-9.842314	-0.000089812360175	-0.00013659834222	-0.000001573851439
792	minimi	-0.007266	-0.03108	-10.386047	-0.000095155666996	-0.000145203948938	-0.000001930628211
793	massimi	-0.00633	-0.026733	-9.851619	-0.000089758562325	0.000128850070685	-0.000001720199959
793	minimi	-0.007217	-0.028609	-10.396289	-0.000095096450331	0.000121740979133	-0.000002088045271
794	massimi	-0.008495	-0.028747	-9.656137	-0.000248465591889	-0.000135477833722	-0.000001549237162
794	minimi	-0.008988	-0.031069	-10.188678	-0.000263458071413	-0.000144016080385	-0.0000019080987
795	massimi	0.047449	-0.175871	-8.685105	-0.000794099350696	-0.000157886057461	-0.0000015013325293
795	minimi	0.045339	-0.186204	-9.126292	-0.000837231108733	-0.000169156137494	-0.0000015913244856
796	massimi	0.052726	-0.170806	-8.971284	-0.000708176475136	-0.000067269637472	-0.0000015594079306
796	minimi	0.050317	-0.180834	-9.421335	-0.000746620271847	-0.000083227846562	-0.00000165306506
797	massimi	0.047403	-0.170824	-8.730469	-0.000764004955388	-0.0001011785561	-0.000001565588789
797	minimi	0.045296	-0.180854	-9.167456	-0.000805478722421	-0.00011541398636	-0.0000016595845144
798	massimi	0.052726	-0.180691	-8.860929	-0.000708176475136	-0.000248500528333	-0.0000013967087828
798	minimi	0.050317	-0.191314	-9.318333	-0.000746620271847	-0.000255082340179	-0.0000014808069775
799	massimi	0.057929	-0.175871	-9.147108	-0.000622244857079	-0.000157886057461	-0.0000014547841841
799	minimi	0.055224	-0.186204	-9.613375	-0.000656000217872	-0.000169156137494	-0.0000015425475519
800	massimi	0.057855	-0.180684	-9.081494	-0.000654889239576	-0.000216247635572	-0.0000014891043019
800	minimi	0.055155	-0.191306	-9.550856	-0.000690409642949	-0.000224529702173	-0.0000015787914325
801	massimi	0.057989	-0.170861	-9.191653	-0.000654629742338	-0.000100033188862	-0.0000015485743614
801	minimi	0.055281	-0.180892	-9.653676	-0.000690167434795	-0.000114327594571	-0.0000016417554895
802	massimi	0.047537	-0.18072	-8.620309	-0.000763745458151	-0.000215102268334	-0.0000015061187295
802	minimi	0.045422	-0.191344	-9.064636	-0.000805236514267	-0.000223443310384	-0.0000015966204574
803	massimi	-0.205983	0.033363	-12.183408	-0.000166889374807	0.000700634463866	0.000010697215948
803	minimi	-0.220582	0.032916	-12.862366	-0.000189179722313	0.00065198901111	0.000001049908005
804	massimi	-0.209199	0.030109	-11.98608	-0.00004704403888	0.000827542491464	0.000009815564532
804	minimi	-0.223969	0.029823	-12.654136	-0.00006226775437	0.00077183061299	0.000009334508588
805	massimi	-0.206007	0.030041	-11.957017	-0.000122713411422	0.000782295990713	0.00000104184911
805	minimi	-0.220608	0.02976	-12.619311	-0.000142411221777	0.000729096964976	0.000009897801613
806	massimi	-0.209199	0.03657	-12.411427	-0.00004704403888	0.000573717786879	0.000009506923533
806	minimi	-0.223969	0.035964	-13.111218	-0.00006226775437	0.000532139360373	0.000009029999637
807	massimi	-0.212124	0.033363	-12.214099	0.00007280187781	0.000700634463866	0.000008625272117
807	minimi	-0.227043	0.032916	-12.902988	0.000064644982272	0.00065198901111	0.000008214600221
808	massimi	-0.212132	0.036486	-12.412247	0.000029473953906	0.000621134861034	0.000009548335826
808	minimi	-0.227053	0.035885	-13.116134	0.000018749907902	0.000576909599648	0.000009079100124
809	massimi	-0.212155	0.030202	-11.987653	0.00002847375758	0.000782391513763	0.00000966115079
809	minimi	-0.227077	0.02991	-12.659861	0.000017675086081	0.000729169133792	0.000009190404736
810	massimi	-0.206031	0.036647	-12.38161	-0.000123713607748	0.000621230384084	0.000010305676135
810	minimi	-0.220632	0.036035	-13.075583	-0.000143486043598	0.000576981768464	0.000009786497001
811	massimi	0.044308	-0.012298	-11.336185	-0.000268444430892	-0.000456250198108	-0.000002539418062
811	minimi	0.041731	-0.01375	-11.990328	-0.00028644705116	-0.00047877457167	-0.000002635263729
812	massimi	0.045151	-0.011506	-11.536217	-0.00015698328021	-0.000344785262218	-0.000002399517811
812	minimi	0.042544	-0.012929	-12.201363	-0.00016818917869	-0.00036051270579	-0.000002490017022
813	massimi	0.044311	-0.011495	-11.471703	-0.000228356876158	-0.000386334893855	-0.000002513473279
813	minimi	0.041734	-0.012917	-12.132386	-0.000243913596444	-0.000404588657435	-0.000002606914747
814	massimi	0.045151	-0.013073	-11.238566	-0.00015698328021	-0.000567709501553	-0.00000285745911
814	minimi	0.042544	-0.014552	-11.889018	-0.00016818917869	-0.00059703052704	-0.000002362816045
815	massimi	0.045931	-0.012298	-11.438598	-0.000045520191557	-0.000456250198108	-0.000002145845659
815	minimi	0.043297	-0.01375	-12.100052	-0.000049929229911	-0.00047877457167	-0.000002217569337
816	massimi	0.04593	-0.013057	-11.276812	-0.000086815404445	-0.000527876365568	-0.000002328027956
816	minimi	0.043297	-0.014535	-11.930124	-0.00009374114052	-0.000554761113359	-0.000002407743698
817	massimi	0.04594	-0.011525	-11.573935	-0.000086115485023	-0.000386094070625	-0.000002369614048

817	minimi	0.043305	-0.012949	-12.241916	-0.000093006667148	-0.00040433064358	-0.000002454238407
818	massimi	0.044321	-0.013088	-11.17458	-0.000227656956736	-0.000527635542337	-0.000002471887187
818	minimi	0.041743	-0.014568	-11.820595	-0.000243179123072	-0.000554503099504	-0.000002560420037
819	massimi	-0.013193	-0.004841	-11.982947	-0.000273179580801	-0.000327937248707	-0.00001770140365
819	minimi	-0.013395	-0.00661	-12.672245	-0.000274003208439	-0.000350541583917	-0.00001892985581
820	massimi	-0.006857	0.001503	-12.140758	-0.000147943823218	-0.000209794130158	-0.000017766528461
820	minimi	-0.007469	-0.000675	-12.834847	-0.000155863076168	-0.000225302749411	-0.000018983967277
821	massimi	-0.013179	0.001483	-12.075896	-0.000227967661542	-0.000253573685882	-0.000018325933457
821	minimi	-0.013382	-0.000694	-12.771715	-0.000231377133903	-0.000271703162167	-0.000019590469077
822	massimi	-0.006857	-0.011179	-11.926817	-0.000147943823217	-0.000446076318843	-0.000017705375249
822	minimi	-0.007469	-0.012537	-12.60616	-0.000155863076168	-0.000475776090958	-0.000018939180212
823	massimi	-0.000512	-0.004841	-12.084629	-0.000022706239255	-0.000327937248707	-0.00001777050006
823	minimi	-0.001533	-0.00661	-12.768761	-0.000037721019754	-0.000350541583917	-0.000018993291678
824	massimi	-0.000531	-0.011165	-11.963837	-0.00006893441557	-0.000403596531427	-0.000018328836868
824	minimi	-0.001552	-0.012525	-12.639777	-0.000081354288358	-0.000430736408139	-0.000019597285618
825	massimi	-0.000528	0.001488	-12.177399	-0.000068396660488	-0.000253334581122	-0.00001835118969
825	minimi	-0.001547	-0.000689	-12.86806	-0.000080851209892	-0.00027147620609	-0.00001961365626
826	massimi	-0.013176	-0.01116	-11.862335	-0.000227429906459	-0.000403357426667	-0.000018303580635
826	minimi	-0.013378	-0.012519	-12.543432	-0.000230874055437	-0.000430509452062	-0.000019574098436
827	massimi	0.063835	-0.06039	-9.028764	-0.000436898867816	-0.00060232240164	-0.000010106266816
827	minimi	0.059887	-0.065541	-9.51766	-0.000464889334605	-0.000639549507291	-0.000010815780618
828	massimi	0.067394	-0.057067	-9.338958	-0.000348634683832	-0.000514052347834	-0.000010093213224
828	minimi	0.063213	-0.061983	-9.847455	-0.000371496649686	-0.000546150581649	-0.000010807207134
829	massimi	0.063829	-0.057061	-9.214689	-0.00040570135487	-0.000547517141417	-0.000010350114168
829	minimi	0.059882	-0.061976	-9.715116	-0.000431885038817	-0.00058156542299	-0.000011079077956
830	massimi	0.067394	-0.06363	-8.946013	-0.000348634683832	-0.000690585019727	-0.000009534538857
830	minimi	0.063213	-0.069008	-9.430223	-0.000371496649686	-0.000732940537643	-0.000010200886578
831	massimi	0.07086	-0.06039	-9.256207	-0.000260366195923	-0.00060232240164	-0.000009521485266
831	minimi	0.06645	-0.065541	-9.760019	-0.000278099378611	-0.000639549507291	-0.000010192313095
832	massimi	0.070836	-0.063607	-9.04948	-0.000293615319454	-0.000659603176833	-0.000009932156285
832	minimi	0.066428	-0.068983	-9.540552	-0.000313286337521	-0.000700164124286	-0.000010629563799
833	massimi	0.070883	-0.057106	-9.441729	-0.000292691315149	-0.000546982311652	-0.000010136363856
833	minimi	0.066472	-0.062025	-9.957045	-0.000312305224256	-0.000580995521385	-0.000010851187083
834	massimi	0.063877	-0.063652	-8.82244	-0.000404777350565	-0.000659068347067	-0.000010145906597
834	minimi	0.059926	-0.069031	-9.298623	-0.000430903925552	-0.000699594222681	-0.000010857454671
835	massimi	0.130507	-0.044629	-10.928366	-0.000412700718813	-0.000348701530277	-0.000013978081102
835	minimi	0.120567	-0.048526	-11.578583	-0.000440125438371	-0.000373623798054	-0.000015083281848
836	massimi	0.135436	-0.040117	-11.141583	-0.000304955595937	-0.000240952372676	-0.000013605699798
836	minimi	0.125135	-0.043657	-11.806662	-0.000325592434261	-0.000259086478004	-0.000014681277843
837	massimi	0.13052	-0.04009	-11.029388	-0.000374126241344	-0.000281085305483	-0.000014133111533
837	minimi	0.120579	-0.043628	-11.686932	-0.000399125357825	-0.000301753636327	-0.000015249935629
838	massimi	0.135436	-0.049079	-10.914096	-0.000304955595938	-0.00045644638313	-0.000013192834803
838	minimi	0.125135	-0.053326	-11.562916	-0.000325592434261	-0.000488156505688	-0.000014232366038
839	massimi	0.140176	-0.044629	-11.127314	-0.00019720670836	-0.000348701530277	-0.000012820453499
839	minimi	0.129528	-0.048526	-11.790994	-0.000211055410686	-0.000373623798054	-0.000013830362032
840	massimi	0.140163	-0.049028	-11.000899	-0.000237302451002	-0.000417909095825	-0.000013559062501
840	minimi	0.129517	-0.053271	-11.655653	-0.000253681735631	-0.000447197258521	-0.000014627879342
841	massimi	0.140198	-0.04018	-11.227983	-0.00023676751869	-0.000280617482465	-0.000013709973591
841	minimi	0.129549	-0.043725	-11.898967	-0.000253108570832	-0.000301254154969	-0.000014791966321
842	massimi	0.130555	-0.049118	-10.802304	-0.000373591309031	-0.000417441272807	-0.000013982200442
842	minimi	0.120612	-0.053369	-11.443618	-0.000398552193026	-0.000446697777163	-0.000015085848649
843	massimi	0.184849	-0.340145	-3.513832	-0.001634918286394	-0.0005007406579	0.000021951304212
843	minimi	0.172238	-0.358112	-3.674991	-0.001715632514397	-0.000530099426844	0.000020182362988
844	massimi	0.177358	-0.346913	-4.198891	-0.001599429861317	-0.000465239269435	0.000021115226742
844	minimi	0.165348	-0.365477	-4.395325	-0.001678213848127	-0.00049266712967	0.000019373836471
845	massimi	0.184724	-0.34688	-3.673622	-0.001624929594958	-0.000480235206753	0.000022625702417
845	minimi	0.172119	-0.365441	-3.844158	-0.001705088900526	-0.000508475824378	0.000020791049928
846	massimi	0.177358	-0.332903	-3.872216	-0.001599429861317	-0.000536235864681	0.000024428129451
846	minimi	0.165348	-0.350247	-4.049496	-0.001678213848127	-0.000567525179897	0.000022520532974
847	massimi	0.16962	-0.340145	-4.557274	-0.001563921691149	-0.0005007406579	0.000023592051981
847	minimi	0.158228	-0.358112	-4.76983	-0.001640774464171	-0.000530099426844	0.000021712006457
848	massimi	0.169535	-0.332908	-4.389119	-0.001579851668001	-0.00052531313371	0.000024436368869
848	minimi	0.158147	-0.350251	-4.591842	-0.001657592916763	-0.000556005508141	0.000022500353388
849	massimi	0.169792	-0.346999	-4.715215	-0.001579083497131	-0.000477781570506	0.000023225431234
849	minimi	0.158391	-0.365568	-4.937058	-0.001656746007506	-0.000505901328035	0.000021350167719
850	massimi	0.184982	-0.333027	-3.347525	-0.001624161424088	-0.000522859497463	0.000023836640052
850	minimi	0.172364	-0.350379	-3.498942	-0.001704275691269	-0.000553431011798	0.000021941235597
851	massimi	0.198827	-0.08642	-7.849646	-0.000512611914129	-0.000652742919573	-0.000000046121448
851	minimi	0.185283	-0.091522	-8.279674	-0.000539658676514	-0.000693427800519	-0.000000127575609

852	massimi	0.198701	-0.08663	-8.204862	-0.000436236398536	-0.000576360682211	0.000000410514401
852	minimi	0.185141	-0.091723	-8.655509	-0.000458764059111	-0.000612526071164	0.000000368181867
853	massimi	0.19882	-0.086575	-8.053441	-0.000485934731662	-0.000605634219191	0.000000378134833
853	minimi	0.185276	-0.091663	-8.496196	-0.000511399296397	-0.000643532517718	0.000000327225143
854	massimi	0.198701	-0.086088	-7.779024	-0.000436236398536	-0.00072911709877	0.00000121485313
854	minimi	0.185141	-0.091193	-8.203128	-0.000458764059111	-0.00077432096945	0.000001209986111
855	massimi	0.198297	-0.08642	-8.13424	-0.00035985549757	-0.000652742919573	0.000001710610605
855	minimi	0.184741	-0.091522	-8.578964	-0.000377863778228	-0.000693427800519	0.00000166662196
856	massimi	0.198292	-0.086034	-7.912445	-0.000388944973717	-0.000702623977136	0.000001308598654
856	minimi	0.184735	-0.091135	-8.343376	-0.000408670727771	-0.000746261086344	0.000001296403826
857	massimi	0.198358	-0.086708	-8.33753	-0.000387943620844	-0.000604965002325	0.000001004179614
857	minimi	0.184797	-0.091806	-8.794956	-0.000407606961471	-0.000642828741859	0.000000999121985
858	massimi	0.198886	-0.086167	-7.628356	-0.000484933378789	-0.00070195476027	0.000000670359045
858	minimi	0.185338	-0.091278	-8.044616	-0.000510335530097	-0.000745557310485	0.000000636701813
859	massimi	0.224832	-0.060595	-3.069047	-0.000498270572279	-0.001482072269597	0.000019207795584
859	minimi	0.213829	-0.064353	-3.21669	-0.000528824851039	-0.001558378543782	0.000018184258256
860	massimi	0.218224	-0.066955	-3.70618	-0.000471173677682	-0.00145496331851	0.000019919526202
860	minimi	0.207572	-0.071069	-3.888151	-0.000500105080868	-0.001529646067537	0.000018864102906
861	massimi	0.22482	-0.066871	-3.54871	-0.000490276040508	-0.001467614797246	0.000020413607066
861	minimi	0.213818	-0.070981	-3.721025	-0.000520343108916	-0.001543035665264	0.000019329388723
862	massimi	0.218224	-0.054151	-2.7393	-0.000471173677682	-0.001509162924381	0.000020514860551
862	minimi	0.207572	-0.057548	-2.87149	-0.000500105080868	-0.001587091781717	0.00001942466884
863	massimi	0.211311	-0.060595	-3.376433	-0.000444070966408	-0.001482072269597	0.000021226591169
863	minimi	0.201025	-0.064353	-3.542951	-0.000471379136859	-0.001558378543782	0.00002010451349
864	massimi	0.211335	-0.054101	-2.890384	-0.000455863039911	-0.001502027797843	0.00002136912813
864	minimi	0.201048	-0.057496	-3.031848	-0.000483869054085	-0.001579509720095	0.000020236182548
865	massimi	0.211381	-0.06702	-3.855551	-0.000453589438343	-0.001466891984172	0.000021151520542
865	minimi	0.201092	-0.071138	-4.046707	-0.000481478393404	-0.001542268469413	0.000020031283568
866	massimi	0.224867	-0.05425	-2.583543	-0.000488002438939	-0.001501304984769	0.000020631214655
866	minimi	0.213862	-0.057653	-2.706165	-0.000517952448235	-0.001578742524244	0.000019534287704
867	massimi	0.018836	0.021486	-7.966261	-0.000009364216675	0.000069246557853	0.000003516643346
867	minimi	0.016849	0.020384	-8.538322	-0.000010170018391	0.000062877806476	0.000003379821646
868	massimi	0.017645	0.020268	-7.924051	0.000071612803628	0.000151028510412	0.000003697645883
868	minimi	0.015705	0.019215	-8.492375	0.000066524821532	0.00013876604594	0.000003546752013
869	massimi	0.018843	0.02028	-7.936806	0.000019855132322	0.000121339197885	0.000003724754081
869	minimi	0.016855	0.019227	-8.506097	0.000018496193516	0.000111214158686	0.000003575504295
870	massimi	0.017645	0.022674	-7.965071	0.000071612803628	-0.00001253624956	0.000003498876657
870	minimi	0.015705	0.021524	-8.537551	0.000066524821532	-0.00001301120922	0.000003358179145
871	massimi	0.01643	0.021486	-7.922861	0.000153394741581	0.000069246557853	0.000003679879195
871	minimi	0.01454	0.020384	-8.491603	0.000142413038486	0.000062877806476	0.000003525109512
872	massimi	0.016443	0.02268	-7.934431	0.000123707440694	0.000017486889513	0.000003711756862
872	minimi	0.014552	0.02153	-8.504556	0.000114864251705	0.000014846100497	0.000003559682691
873	massimi	0.016427	0.020268	-7.893483	0.000123601211675	0.000121229338881	0.000003784411316
873	minimi	0.014537	0.019215	-8.45946	0.000114767792792	0.000111112105	0.000003628610155
874	massimi	0.018828	0.022668	-7.977754	0.000019748903304	0.00001737703051	0.000003652090627
874	minimi	0.01684	0.021518	-8.551192	0.000018399734603	0.000014744046811	0.000003506576831
875	massimi	-0.009006	0.016396	-11.413656	-0.000070177297825	0.000215486119859	0.000002436331328
875	minimi	-0.010477	0.015217	-12.459749	-0.000076416333602	0.000194216979718	0.000002348446222
876	massimi	-0.009783	0.015588	-11.336794	0.000045971400195	0.000337872239799	0.000002459988422
876	minimi	-0.011282	0.014437	-12.374464	0.000041416865483	0.000305809688566	0.000002373581559
877	massimi	-0.009004	0.015588	-11.337243	-0.000029221852826	0.000293576094996	0.00000251044615
877	minimi	-0.010475	0.014437	-12.375136	-0.000031496819373	0.00026541604395	0.000002422266363
878	massimi	-0.009783	0.017182	-11.463498	0.000045971400195	0.000093097339726	0.000002308304407
878	minimi	-0.011282	0.015977	-12.515043	0.000041416865483	0.000082621873245	0.000002232805656
879	massimi	-0.010547	0.016396	-11.386636	0.000168358566471	0.000215486119859	0.000002331961501
879	minimi	-0.012071	0.015217	-12.429758	0.000153010517496	0.000194216979718	0.000002257940993
880	massimi	-0.01054	0.017178	-11.43675	0.00012391831044	0.000138160965183	0.000002416852929
880	minimi	-0.012065	0.015973	-12.485528	0.000112486971406	0.000123707219718	0.000002337728104
881	massimi	-0.010551	0.015596	-11.310271	0.000123587739799	0.000293505571682	0.000002472296719
881	minimi	-0.012077	0.014444	-12.345198	0.0001121890291	0.000265352507608	0.000002389184743
882	massimi	-0.009015	0.017186	-11.463722	-0.000029519795132	0.000138090441869	0.00000245500236
882	minimi	-0.010486	0.01598	-12.515466	-0.000031827390014	0.000123643683376	0.000002370809724
883	massimi	-0.016289	0.006714	-11.642634	-0.000110281812064	0.000321489552866	0.000003039888936
883	minimi	-0.01879	0.006256	-12.713514	-0.00011927385926	0.000289886098147	0.000002918366619
884	massimi	-0.01725	0.005723	-11.546835	0.000005870844505	0.000446632235986	0.000002979407633
884	minimi	-0.019789	0.005303	-12.606732	0.00000380483652	0.000403970933912	0.000002867516503
885	massimi	-0.016291	0.00572	-11.534798	-0.00006840379646	0.000401470183613	0.000003091479848
885	minimi	-0.018793	0.0053	-12.594083	-0.000073331311215	0.000362793138937	0.000002972976833
886	massimi	-0.01725	0.007695	-11.735952	0.000005870844505	0.000196342900931	0.000002917297426

886	minimi	-0.019789	0.007201	-12.816466	0.00000380483652	0.000175797683715	0.000002809638524
887	massimi	-0.018187	0.006714	-11.640152	0.000131015475794	0.000321489552866	0.000002856816123
887	minimi	-0.020762	0.006256	-12.709684	0.000117891438132	0.000289886098147	0.000002758788408
888	massimi	-0.018185	0.007686	-11.721102	0.000085585103363	0.000242553769035	0.000003001860148
888	minimi	-0.020759	0.007193	-12.799623	0.000076470434061	0.000217918908416	0.000002893491889
889	massimi	-0.018189	0.005734	-11.53232	0.00008509191611	0.000401461177331	0.000003024562773
889	minimi	-0.020764	0.005312	-12.59026	0.000076025728698	0.000362787302054	0.000002914647543
890	massimi	-0.016296	0.007701	-11.72358	-0.000068848501824	0.000242544762753	0.000003068777223
890	minimi	-0.018797	0.007206	-12.803446	-0.000073824498468	0.000217913071533	0.000002951821179
891	massimi	-0.032675	0.000464	-11.666948	-0.000115839968775	0.000328125382752	0.000005290781237
891	minimi	-0.036187	0.000402	-12.740937	-0.000125994175075	0.000295528132352	0.000005012850808
892	massimi	-0.034323	-0.001159	-11.571034	-0.00000054453625	0.000453572999571	0.000005117219723
892	minimi	-0.037924	-0.001309	-12.634083	-0.000001484299008	0.000409881987122	0.000004856238221
893	massimi	-0.032684	-0.001167	-11.557246	-0.000073867955731	0.000408305420828	0.000005350740166
893	minimi	-0.036197	-0.001318	-12.619313	-0.000079945575063	0.000368611036092	0.000005074773391
894	massimi	-0.034323	0.002112	-11.763831	-0.00000054453625	0.000202673715199	0.000005113502827
894	minimi	-0.037924	0.002087	-12.848147	-0.000001484299008	0.000181170629264	0.000004851944203
895	massimi	-0.035922	0.000464	-11.667917	0.000124905109297	0.000328125382752	0.000004939941313
895	minimi	-0.039609	0.000402	-12.741293	0.000112871389083	0.000295528132352	0.000004695331616
896	massimi	-0.035922	0.002094	-11.750669	0.00007935811514	0.000249001730625	0.000005221141975
896	minimi	-0.039609	0.00207	-12.833252	0.000071347935933	0.000223395144428	0.000004957143698
897	massimi	-0.035922	-0.001143	-11.558213	0.000078854748064	0.000408306256184	0.000005222500581
897	minimi	-0.039609	-0.001291	-12.619668	0.000070894575298	0.00036861331311	0.000004958713255
898	massimi	-0.032684	0.002121	-11.749702	-0.000074321316366	0.000249002565981	0.00000534938156
898	minimi	-0.036197	0.002095	-12.832997	-0.000080448942139	0.000223397421445	0.000005073203834
899	massimi	-0.058242	-0.008785	-11.604973	-0.000131555165555	0.00025208567043	0.000007236132387
899	minimi	-0.064055	-0.009484	-12.671163	-0.000142445399382	0.000224570946601	0.00000681260868
900	massimi	-0.060469	-0.010964	-11.537521	-0.000017659137415	0.00037687048539	0.000006885044766
900	minimi	-0.066418	-0.011794	-12.594695	-0.000017785023881	0.000338339811881	0.000006492272129
901	massimi	-0.058259	-0.010981	-11.518454	-0.000089877661773	0.000331708949541	0.000007256229183
901	minimi	-0.064073	-0.011814	-12.574386	-0.000096724941636	0.000297155328999	0.000006838141314
902	massimi	-0.060469	-0.006594	-11.684028	-0.000017659137415	0.000127297743452	0.000006972781879
902	minimi	-0.066418	-0.00716	-12.759151	-0.000017785023881	0.000110799308975	0.000006573542709
903	massimi	-0.062612	-0.008785	-11.616576	0.000107127342556	0.00025208567043	0.000006621694258
903	minimi	-0.068689	-0.009484	-12.682683	0.000095985337351	0.000224570946601	0.000006253206158
904	massimi	-0.062617	-0.006623	-11.676283	0.000061736485882	0.000173247522023	0.000007063708563
904	minimi	-0.068695	-0.007192	-12.750051	0.000054594817988	0.000152682849238	0.000006663373742
905	massimi	-0.062611	-0.010937	-11.530036	0.000061349768995	0.000331736039882	0.00000703163875
905	minimi	-0.068688	-0.011766	-12.585886	0.000054250310593	0.000297182612458	0.000006633667586
906	massimi	-0.058253	-0.006579	-11.664701	-0.000090222169168	0.000173274612364	0.000007288298997
906	minimi	-0.064067	-0.007144	-12.738551	-0.000097111658523	0.000152710132697	0.00000686784747
907	massimi	0.00	0.00	0.00	0.00	0.00	0.00
907	minimi	0.00	0.00	0.00	0.00	0.00	0.00
908	massimi	0.00	0.00	0.00	0.00	0.00	0.00
908	minimi	0.00	0.00	0.00	0.00	0.00	0.00
909	massimi	0.00	0.00	0.00	0.00	0.00	0.00
909	minimi	0.00	0.00	0.00	0.00	0.00	0.00
910	massimi	0.00	0.00	0.00	0.00	0.00	0.00
910	minimi	0.00	0.00	0.00	0.00	0.00	0.00

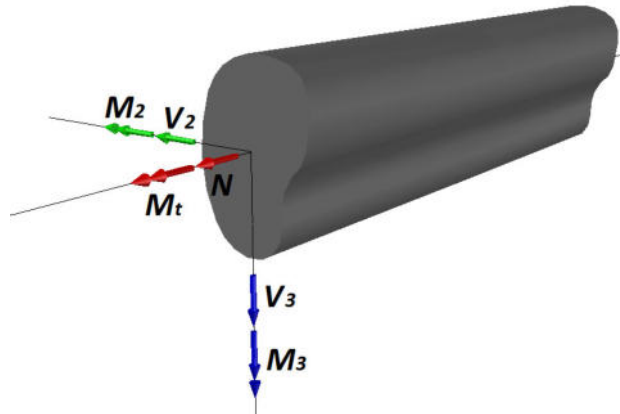
1.4.6.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.**: Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.**: Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x**: ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N**: sforzo normale;
- **V₂**: sforzo di taglio in direzione 2;
- **V₃**: sforzo di taglio in direzione 3;
- **M_t**: momento torcente;

- M_2 : momento flettente nel piano 1-2;
- M_3 : momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 1 (11-1)	31	massimi	0.00	4.41206	0.25466	10.55806	-0.39372	-2.75192	0.708
Asta 1 (11-1)	31	massimi	237.00	4.41206	0.25466	-3.04239	-0.39372	5.84126	0.104
Asta 1 (11-1)	31	massimi	474.00	4.41206	0.25466	-16.33808	-0.39372	-17.3704	-0.377
Asta 1 (11-1)	31	minimi	0.00	4.26886	0.20	10.25331	-0.40869	-2.94949	0.571
Asta 1 (11-1)	31	minimi	237.00	4.26886	0.20	-3.30643	-0.40869	5.59546	0.097
Asta 1 (11-1)	31	minimi	474.00	4.26886	0.20	-17.17093	-0.40869	-18.42442	-0.50
Asta 2 (1-221)	32	massimi	0.00	20.06126	0.06158	19.56995	-0.31451	-20.97778	0.073
Asta 2 (1-221)	32	massimi	315.00	20.06126	0.06158	1.14245	-0.31451	9.77215	-0.121
Asta 2 (1-221)	32	massimi	630.00	20.06126	0.06158	-16.86646	-0.31451	-15.65244	-0.314
Asta 2 (1-221)	32	minimi	0.00	17.02557	0.06096	18.47654	-0.33701	-22.84988	0.062
Asta 2 (1-221)	32	minimi	315.00	17.02557	0.06096	0.80504	-0.33701	9.3907	-0.13
Asta 2 (1-221)	32	minimi	630.00	17.02557	0.06096	-17.28505	-0.33701	-15.90603	-0.322
Asta 3 (6-16)	33	massimi	0.00	5.38022	0.38146	21.55425	-0.52334	-27.1843	0.912
Asta 3 (6-16)	33	massimi	237.00	5.38022	0.38146	7.68975	-0.52334	5.70543	0.008
Asta 3 (6-16)	33	massimi	474.00	5.38022	0.38146	-6.16327	-0.52334	7.50071	-0.871
Asta 3 (6-16)	33	minimi	0.00	5.18647	0.37049	20.42813	-0.57999	-28.94872	0.885
Asta 3 (6-16)	33	minimi	237.00	5.18647	0.37049	7.13243	-0.57999	5.47496	0.007
Asta 3 (6-16)	33	minimi	474.00	5.18647	0.37049	-6.17475	-0.57999	6.62342	-0.896
Asta 4 (221-6)	34	massimi	0.00	18.99141	-0.09919	16.69672	0.38014	-13.84801	-0.346
Asta 4 (221-6)	34	massimi	315.00	18.99141	-0.09919	-1.32783	0.38014	9.72333	-0.033
Asta 4 (221-6)	34	massimi	630.00	18.99141	-0.09919	-18.99933	0.38014	-22.6667	0.282
Asta 4 (221-6)	34	minimi	0.00	16.07087	-0.10241	16.34367	0.34501	-14.30137	-0.363
Asta 4 (221-6)	34	minimi	315.00	16.07087	-0.10241	-1.73078	0.34501	9.34858	-0.04
Asta 4 (221-6)	34	minimi	630.00	16.07087	-0.10241	-20.15828	0.34501	-24.75194	0.279

Asta 5 (26-11)	35	massimi	0.00	5.57617	-0.07646	13.81968	-0.48173	-10.16292	-0.194
Asta 5 (26-11)	35	massimi	237.00	5.57617	-0.07646	-0.03804	-0.48173	5.74763	-0.008
Asta 5 (26-11)	35	massimi	474.00	5.57617	-0.07646	-13.33374	-0.48173	-10.34323	0.198
Asta 5 (26-11)	35	minimi	0.00	5.27274	-0.08682	13.25766	-0.52629	-10.57558	-0.214
Asta 5 (26-11)	35	minimi	237.00	5.27274	-0.08682	-0.04482	-0.52629	5.50233	-0.013
Asta 5 (26-11)	35	minimi	474.00	5.27274	-0.08682	-13.90932	-0.52629	-10.78802	0.168
Asta 6 (11-226)	36	massimi	0.00	27.89705	0.08533	21.27272	-0.10413	-25.60169	0.247
Asta 6 (11-226)	36	massimi	315.00	27.89705	0.08533	2.84522	-0.10413	9.45924	-0.02
Asta 6 (11-226)	36	massimi	630.00	27.89705	0.08533	-15.48281	-0.10413	-10.60162	-0.286
Asta 6 (11-226)	36	minimi	0.00	22.65446	0.08458	19.86019	-0.1088	-28.52653	0.247
Asta 6 (11-226)	36	minimi	315.00	22.65446	0.08458	2.18869	-0.1088	9.12529	-0.022
Asta 6 (11-226)	36	minimi	630.00	22.65446	0.08458	-15.58227	-0.1088	-11.81295	-0.291
Asta 7 (16-21)	37	massimi	0.00	8.19506	-0.01993	9.55291	-0.49145	-8.37171	-0.105
Asta 7 (16-21)	37	massimi	307.50	8.19506	-0.01993	-0.44178	-0.49145	5.40171	-0.044
Asta 7 (16-21)	37	massimi	615.00	8.19506	-0.01993	-10.22028	-0.49145	-11.2024	0.018
Asta 7 (16-21)	37	minimi	0.00	7.71272	-0.01995	9.33672	-0.52579	-8.48543	-0.108
Asta 7 (16-21)	37	minimi	307.50	7.71272	-0.01995	-0.59459	-0.52579	5.19054	-0.046
Asta 7 (16-21)	37	minimi	615.00	7.71272	-0.01995	-10.74209	-0.52579	-12.02844	0.015
Asta 8 (16-31)	38	massimi	0.00	10.60225	0.28494	16.51618	-0.31944	-15.71766	0.763
Asta 8 (16-31)	38	massimi	237.00	10.60225	0.28494	2.65168	-0.31944	5.9667	0.087
Asta 8 (16-31)	38	massimi	474.00	10.60225	0.28494	-10.90417	-0.31944	-4.17825	-0.547
Asta 8 (16-31)	38	minimi	0.00	9.93362	0.2641	15.68723	-0.32987	-16.74723	0.705
Asta 8 (16-31)	38	minimi	237.00	9.93362	0.2641	2.39153	-0.32987	5.70568	0.079
Asta 8 (16-31)	38	minimi	474.00	9.93362	0.2641	-11.21282	-0.32987	-4.38179	-0.588
Asta 9 (226-16)	39	massimi	0.00	25.34124	-0.1036	15.37886	0.28323	-9.48415	-0.382
Asta 9 (226-16)	39	massimi	315.00	25.34124	-0.1036	-2.3267	0.28323	9.93593	-0.056
Asta 9 (226-16)	39	massimi	630.00	25.34124	-0.1036	-19.9982	0.28323	-25.62363	0.275
Asta 9 (226-16)	39	minimi	0.00	20.53753	-0.10717	15.3448	0.25111	-10.96543	-0.401
Asta 9 (226-16)	39	minimi	315.00	20.53753	-0.10717	-3.04864	0.25111	9.53808	-0.063
Asta 9 (226-16)	39	minimi	630.00	20.53753	-0.10717	-21.47614	0.25111	-28.69061	0.271
Asta 10 (21-36)	40	massimi	0.00	16.05382	0.11496	14.64068	-0.57092	-21.48537	0.333
Asta 10 (21-36)	40	massimi	237.00	16.05382	0.11496	6.81968	-0.57092	2.61841	0.061
Asta 10 (21-36)	40	massimi	474.00	16.05382	0.11496	-1.00133	-0.57092	9.51315	-0.20
Asta 10 (21-36)	40	minimi	0.00	15.09197	0.10901	13.9048	-0.65445	-22.81211	0.317
Asta 10 (21-36)	40	minimi	237.00	15.09197	0.10901	6.3682	-0.65445	2.53814	0.059

Asta 10 (21-36)	40	minimi	474.00	15.09197	0.10901	-1.1684	-0.65445	8.6999	-0.212
Asta 11 (41-26)	41	massimi	0.00	4.24888	0.09548	13.99679	0.04442	-10.74833	0.048
Asta 11 (41-26)	41	massimi	237.00	4.24888	0.09548	0.13229	0.04442	5.52	-0.168
Asta 11 (41-26)	41	massimi	474.00	4.24888	0.09548	-13.17607	0.04442	-10.18127	-0.384
Asta 11 (41-26)	41	minimi	0.00	4.03204	0.0912	13.41533	0.04379	-11.22295	0.044
Asta 11 (41-26)	41	minimi	237.00	4.03204	0.0912	0.11963	0.04379	5.29061	-0.182
Asta 11 (41-26)	41	minimi	474.00	4.03204	0.0912	-13.73221	0.04379	-10.59591	-0.408
Asta 12 (26-231)	42	massimi	0.00	24.22176	0.07755	20.65583	-0.04125	-23.91019	0.202
Asta 12 (26-231)	42	massimi	315.00	24.22176	0.07755	2.22833	-0.04125	9.36714	-0.042
Asta 12 (26-231)	42	massimi	630.00	24.22176	0.07755	-16.04493	-0.04125	-12.63694	-0.271
Asta 12 (26-231)	42	minimi	0.00	19.29196	0.07259	19.29807	-0.04444	-26.67541	0.186
Asta 12 (26-231)	42	minimi	315.00	19.29196	0.07259	1.62657	-0.04444	9.04612	-0.042
Asta 12 (26-231)	42	minimi	630.00	19.29196	0.07259	-16.19917	-0.04444	-13.66279	-0.286
Asta 13 (31-36)	43	massimi	0.00	12.61458	-0.05715	10.17965	-0.00811	-10.8071	-0.184
Asta 13 (31-36)	43	massimi	307.50	12.61458	-0.05715	0.21026	-0.00811	4.89356	-0.008
Asta 13 (31-36)	43	massimi	615.00	12.61458	-0.05715	-9.56824	-0.00811	-9.6234	0.171
Asta 13 (31-36)	43	minimi	0.00	11.19269	-0.05878	9.98877	-0.01054	-10.91653	-0.191
Asta 13 (31-36)	43	minimi	307.50	11.19269	-0.05878	0.03215	-0.01054	4.76448	-0.01
Asta 13 (31-36)	43	minimi	615.00	11.19269	-0.05878	-10.11535	-0.01054	-10.60935	0.167
Asta 14 (31-46)	44	massimi	0.00	10.69852	0.32503	14.67084	0.01386	-12.10719	0.895
Asta 14 (31-46)	44	massimi	237.00	10.69852	0.32503	0.80634	0.01386	5.71927	0.125
Asta 14 (31-46)	44	massimi	474.00	10.69852	0.32503	-12.52718	0.01386	-8.46439	-0.616
Asta 14 (31-46)	44	minimi	0.00	9.97852	0.30903	14.06422	0.0135	-12.62118	0.849
Asta 14 (31-46)	44	minimi	237.00	9.97852	0.30903	0.76852	0.0135	5.46961	0.117
Asta 14 (31-46)	44	minimi	474.00	9.97852	0.30903	-13.05816	0.0135	-8.79914	-0.645
Asta 15 (231-31)	45	massimi	0.00	20.31239	-0.10123	15.94251	0.00392	-11.05255	-0.302
Asta 15 (231-31)	45	massimi	315.00	20.31239	-0.10123	-1.84287	0.00392	10.14306	0.017
Asta 15 (231-31)	45	massimi	630.00	20.31239	-0.10123	-19.51437	0.00392	-23.92535	0.356
Asta 15 (231-31)	45	minimi	0.00	15.89815	-0.10772	15.82863	-0.00514	-12.31528	-0.323
Asta 15 (231-31)	45	minimi	315.00	15.89815	-0.10772	-2.48499	-0.00514	9.7123	0.016
Asta 15 (231-31)	45	minimi	630.00	15.89815	-0.10772	-20.91249	-0.00514	-26.70796	0.336
Asta 16 (36-51)	46	massimi	0.00	32.42488	0.08419	12.49074	0.88081	-15.19452	0.209
Asta 16 (36-51)	46	massimi	237.00	32.42488	0.08419	4.66974	0.88081	4.45238	0.016
Asta 16 (36-51)	46	massimi	474.00	32.42488	0.08419	-3.1035	0.88081	6.25177	-0.177
Asta 16 (36-51)	46	minimi	0.00	30.49036	0.08139	11.9697	0.83575	-15.88278	0.205

Asta 16 (36-51)	46	minimi	237.00	30.49036	0.08139	4.4331	0.83575	4.24279	0.005
Asta 16 (36-51)	46	minimi	474.00	30.49036	0.08139	-3.15126	0.83575	5.81836	-0.194
Asta 17 (71-41)	47	massimi	0.00	3.56621	-0.00854	14.06676	0.63517	-10.81738	-0.277
Asta 17 (71-41)	47	massimi	237.00	3.56621	-0.00854	0.20226	0.63517	5.59101	-0.247
Asta 17 (71-41)	47	massimi	474.00	3.56621	-0.00854	-13.11887	0.63517	-9.97921	-0.202
Asta 17 (71-41)	47	minimi	0.00	3.41061	-0.01922	13.47253	0.59603	-11.31777	-0.293
Asta 17 (71-41)	47	minimi	237.00	3.41061	-0.01922	0.17683	0.59603	5.35711	-0.257
Asta 17 (71-41)	47	minimi	474.00	3.41061	-0.01922	-13.66224	0.59603	-10.35908	-0.237
Asta 18 (41-236)	48	massimi	0.00	22.71576	0.00327	20.69169	-0.0303	-24.0695	-0.207
Asta 18 (41-236)	48	massimi	315.00	22.71576	0.00327	2.26419	-0.0303	9.31644	-0.217
Asta 18 (41-236)	48	massimi	630.00	22.71576	0.00327	-16.00937	-0.0303	-12.57467	-0.227
Asta 18 (41-236)	48	minimi	0.00	17.88239	0.00231	19.33362	-0.03259	-26.83908	-0.223
Asta 18 (41-236)	48	minimi	315.00	17.88239	0.00231	1.66213	-0.03259	8.9988	-0.231
Asta 18 (41-236)	48	minimi	630.00	17.88239	0.00231	-16.16331	-0.03259	-13.59811	-0.238
Asta 19 (46-51)	49	massimi	0.00	14.24644	-0.03071	12.21391	-0.61431	-15.99239	-0.113
Asta 19 (46-51)	49	massimi	307.50	14.24644	-0.03071	2.14412	-0.61431	5.81186	-0.013
Asta 19 (46-51)	49	massimi	615.00	14.24644	-0.03071	-7.63438	-0.61431	-2.80605	0.104
Asta 19 (46-51)	49	minimi	0.00	12.72816	-0.03823	11.92262	-0.65404	-16.14412	-0.131
Asta 19 (46-51)	49	minimi	307.50	12.72816	-0.03823	2.0664	-0.65404	5.63523	-0.018
Asta 19 (46-51)	49	minimi	615.00	12.72816	-0.03823	-8.0811	-0.65404	-3.43573	0.076
Asta 20 (46-76)	50	massimi	0.00	10.00415	0.33105	14.03461	0.5614	-10.69526	0.815
Asta 20 (46-76)	50	massimi	237.00	10.00415	0.33105	0.19124	0.5614	5.7589	0.03
Asta 20 (46-76)	50	massimi	474.00	10.00415	0.33105	-13.10446	0.5614	-9.78881	-0.712
Asta 20 (46-76)	50	minimi	0.00	9.38603	0.3092	13.48693	0.52233	-11.07369	0.753
Asta 20 (46-76)	50	minimi	237.00	9.38603	0.3092	0.17011	0.52233	5.51337	0.021
Asta 20 (46-76)	50	minimi	474.00	9.38603	0.3092	-13.69439	0.52233	-10.26738	-0.754
Asta 21 (236-46)	51	massimi	0.00	18.47781	-0.10298	16.14156	-0.19003	-11.6466	-0.172
Asta 21 (236-46)	51	massimi	315.00	18.47781	-0.10298	-1.66005	-0.19003	10.17602	0.162
Asta 21 (236-46)	51	massimi	630.00	18.47781	-0.10298	-19.33155	-0.19003	-23.32005	0.506
Asta 21 (236-46)	51	minimi	0.00	14.17492	-0.10925	16.01145	-0.19965	-12.86174	-0.182
Asta 21 (236-46)	51	minimi	315.00	14.17492	-0.10925	-2.28594	-0.19965	9.74172	0.153
Asta 21 (236-46)	51	minimi	630.00	14.17492	-0.10925	-20.71343	-0.19965	-26.04799	0.477
Asta 22 (66-51)	52	massimi	0.00	41.1292	-0.28841	4.50852	16.82435	-3.31037	-0.43
Asta 22 (66-51)	52	massimi	116.50	41.1292	-0.28841	0.66402	16.82435	-0.65512	-0.094
Asta 22 (66-51)	52	massimi	233.00	41.1292	-0.28841	-3.18048	16.82435	-2.12096	0.303

Asta 22 (66-51)	52	minimi	0.00	38.8825	-0.35086	4.12387	15.82709	-3.66812	-0.514
Asta 22 (66-51)	52	minimi	116.50	38.8825	-0.35086	0.41917	15.82709	-0.66405	-0.105
Asta 22 (66-51)	52	minimi	233.00	38.8825	-0.35086	-3.28553	15.82709	-2.33371	0.242
Asta 23 (61-56)	53	massimi	0.00	1.47568	0.61056	-20.69989	6.20243	-5.50047	1.039
Asta 23 (61-56)	53	massimi	204.50	-1.45157	0.44679	-12.03653	6.20243	-35.47403	-0.069
Asta 23 (61-56)	53	massimi	409.00	-4.36393	0.15291	33.37507	6.20244	-32.37257	-0.678
Asta 23 (61-56)	53	minimi	0.00	1.44388	0.57842	-21.56377	5.89429	-5.80095	0.986
Asta 23 (61-56)	53	minimi	204.50	-1.62971	0.42578	-12.68634	5.89429	-37.1738	-0.07
Asta 23 (61-56)	53	minimi	409.00	-4.75408	0.13679	31.99976	5.89429	-34.19177	-0.716
Asta 24 (56-66)	54	massimi	0.00	0.86209	0.05194	26.8812	-1.18017	-50.36734	0.175
Asta 24 (56-66)	54	massimi	205.50	0.86209	0.05194	20.0997	-1.18017	-4.61683	0.069
Asta 24 (56-66)	54	massimi	411.00	0.86209	0.05194	13.3182	-1.18017	29.4459	-0.037
Asta 24 (56-66)	54	minimi	0.00	0.72284	0.05031	25.53048	-1.20544	-53.16388	0.17
Asta 24 (56-66)	54	minimi	205.50	0.72284	0.05031	18.99557	-1.20544	-4.891	0.067
Asta 24 (56-66)	54	minimi	411.00	0.72284	0.05031	12.46067	-1.20544	27.70447	-0.038
Asta 25 (56-86)	55	massimi	0.00	0.27678	-2.3083	-64.98713	-0.78525	8.50457	-1.065
Asta 25 (56-86)	55	massimi	166.00	-0.06747	-0.07328	1.83067	-0.78524	-39.67715	0.947
Asta 25 (56-86)	55	massimi	332.00	-0.41224	2.15214	69.8527	-0.78523	13.62159	-0.681
Asta 25 (56-86)	55	minimi	0.00	0.25867	-2.46707	-68.11317	-0.83314	8.11974	-1.118
Asta 25 (56-86)	55	minimi	166.00	-0.08204	-0.08573	1.72596	-0.83313	-41.57264	0.88
Asta 25 (56-86)	55	minimi	332.00	-0.42337	1.96067	66.62063	-0.83313	12.94046	-0.78
Asta 26 (91-61)	56	massimi	0.00	-0.36433	2.08315	-12.12255	0.25077	-3.67583	0.64
Asta 26 (91-61)	56	massimi	166.00	-0.33265	-0.11394	-0.74546	0.25077	-12.9022	-0.919
Asta 26 (91-61)	56	massimi	332.00	-0.30353	-2.3112	11.74762	0.25077	-5.77836	1.11
Asta 26 (91-61)	56	minimi	0.00	-0.40211	1.90582	-12.51677	0.23156	-3.87296	0.567
Asta 26 (91-61)	56	minimi	166.00	-0.36112	-0.11756	-0.78795	0.23157	-13.40793	-0.995
Asta 26 (91-61)	56	minimi	332.00	-0.3229	-2.47433	11.38032	0.23157	-6.08677	1.054
Asta 27 (81-66)	57	massimi	0.00	41.07726	0.51123	-0.673	-11.87738	6.7744	0.754
Asta 27 (81-66)	57	massimi	120.50	41.07726	0.51123	-4.5049	-11.87738	3.34626	0.138
Asta 27 (81-66)	57	massimi	241.00	41.07726	0.51123	-8.3368	-11.87738	-4.49054	-0.392
Asta 27 (81-66)	57	minimi	0.00	38.83219	0.43443	-0.85668	-12.62155	6.36628	0.655
Asta 27 (81-66)	57	minimi	120.50	38.83219	0.43443	-4.83318	-12.62155	3.24659	0.132
Asta 27 (81-66)	57	minimi	241.00	38.83219	0.43443	-8.80968	-12.62155	-4.87356	-0.478
Asta 28 (101-71)	58	massimi	0.00	1.98625	0.91227	15.38404	0.41578	-13.35132	2.693
Asta 28 (101-71)	58	massimi	237.00	1.98625	0.91227	1.51954	0.41578	5.91857	0.531

Asta 28 (101-71)	58	massimi	474.00	1.98625	0.91227	-11.92192	0.41578	-6.83959	-1.631
Asta 28 (101-71)	58	minimi	0.00	1.9183	0.9043	14.66948	0.39325	-14.11217	2.64
Asta 28 (101-71)	58	minimi	237.00	1.9183	0.9043	1.37378	0.39325	5.65995	0.497
Asta 28 (101-71)	58	minimi	474.00	1.9183	0.9043	-12.34496	0.39325	-6.90955	-1.647
Asta 29 (71-241)	59	massimi	0.00	26.01955	-0.11501	21.36406	-0.00263	-26.12715	-0.806
Asta 29 (71-241)	59	massimi	315.00	26.01955	-0.11501	2.93656	-0.00263	9.23162	-0.443
Asta 29 (71-241)	59	massimi	630.00	26.01955	-0.11501	-15.38189	-0.00263	-10.54152	-0.081
Asta 29 (71-241)	59	minimi	0.00	21.14512	-0.11754	19.96111	-0.00989	-29.04186	-0.838
Asta 29 (71-241)	59	minimi	315.00	21.14512	-0.11754	2.28961	-0.00989	8.91772	-0.468
Asta 29 (71-241)	59	minimi	630.00	21.14512	-0.11754	-15.49094	-0.00989	-11.70263	-0.097
Asta 30 (76-81)	60	massimi	0.00	20.81421	0.04127	13.62395	-0.80761	-18.54503	0.092
Asta 30 (76-81)	60	massimi	307.50	20.81421	0.04127	3.47678	-0.80761	7.45342	-0.033
Asta 30 (76-81)	60	massimi	615.00	20.81421	0.04127	-6.30172	-0.80761	2.83716	-0.149
Asta 30 (76-81)	60	minimi	0.00	19.1769	0.03769	13.25528	-0.85188	-18.83844	0.083
Asta 30 (76-81)	60	minimi	307.50	19.1769	0.03769	3.47645	-0.85188	7.18051	-0.035
Asta 30 (76-81)	60	minimi	615.00	19.1769	0.03769	-6.67105	-0.85188	2.54171	-0.162
Asta 31 (76-106)	61	massimi	0.00	6.902	0.02751	11.07676	0.75247	-3.91991	0.05
Asta 31 (76-106)	61	massimi	237.00	6.902	0.02751	-2.54763	0.75247	5.90258	-0.014
Asta 31 (76-106)	61	massimi	474.00	6.902	0.02751	-15.84333	0.75247	-16.14134	-0.015
Asta 31 (76-106)	61	minimi	0.00	6.61014	0.00052	10.74807	0.64021	-4.06558	-0.012
Asta 31 (76-106)	61	minimi	237.00	6.61014	0.00052	-2.78774	0.64021	5.65194	-0.015
Asta 31 (76-106)	61	minimi	474.00	6.61014	0.00052	-16.65224	0.64021	-17.1338	-0.08
Asta 32 (241-76)	62	massimi	0.00	23.54718	-0.05917	16.49508	-0.36379	-12.71857	0.022
Asta 32 (241-76)	62	massimi	315.00	23.54718	-0.05917	-1.32921	-0.36379	10.21763	0.228
Asta 32 (241-76)	62	massimi	630.00	23.54718	-0.05917	-19.00071	-0.36379	-22.23997	0.444
Asta 32 (241-76)	62	minimi	0.00	19.10696	-0.06831	16.34229	-0.38961	-13.86596	0.013
Asta 32 (241-76)	62	minimi	315.00	19.10696	-0.06831	-1.93242	-0.38961	9.77964	0.209
Asta 32 (241-76)	62	minimi	630.00	19.10696	-0.06831	-20.35992	-0.38961	-24.8928	0.395
Asta 33 (96-81)	63	massimi	0.00	41.25062	-1.60451	12.6742	25.15455	1.81782	-0.542
Asta 33 (96-81)	63	massimi	45.50	41.25062	-1.60451	11.1727	25.15455	7.24299	0.206
Asta 33 (96-81)	63	massimi	91.00	41.25062	-1.60451	9.6712	25.15455	11.98498	1.042
Asta 33 (96-81)	63	minimi	0.00	39.13714	-1.83665	11.76814	23.66625	1.72502	-0.63
Asta 33 (96-81)	63	minimi	45.50	39.13714	-1.83665	10.32124	23.66625	6.75036	0.188
Asta 33 (96-81)	63	minimi	91.00	39.13714	-1.83665	8.87434	23.66625	11.11735	0.918
Asta 34 (86-91)	64	massimi	0.00	-3.13044	-0.654	-28.74843	-4.92554	-33.37235	-0.853

Asta 34 (86-91)	64	massimi	204.50	-0.63163	-0.32091	12.53334	-4.92553	-33.95421	0.112
Asta 34 (86-91)	64	massimi	409.00	1.87545	-0.22423	19.48716	-4.92553	-6.01139	0.708
Asta 34 (86-91)	64	minimi	0.00	-3.57056	-0.69626	-29.93886	-5.1807	-35.2371	-0.925
Asta 34 (86-91)	64	minimi	204.50	-0.84265	-0.35636	11.8933	-5.1807	-35.55772	0.104
Asta 34 (86-91)	64	minimi	409.00	1.85982	-0.25396	18.75547	-5.1807	-6.34919	0.633
Asta 35 (86-96)	65	massimi	0.00	1.99028	0.03314	27.31334	4.2874	-49.00291	-0.016
Asta 35 (86-96)	65	massimi	205.50	1.99028	0.03314	20.53184	4.2874	-2.40414	-0.075
Asta 35 (86-96)	65	massimi	411.00	1.99028	0.03314	13.75034	4.2874	32.68382	-0.099
Asta 35 (86-96)	65	minimi	0.00	1.74219	0.01143	25.94325	4.05652	-51.70203	-0.052
Asta 35 (86-96)	65	minimi	205.50	1.74219	0.01143	19.40835	4.05652	-2.54111	-0.084
Asta 35 (86-96)	65	minimi	411.00	1.74219	0.01143	12.87345	4.05652	30.76541	-0.152
Asta 36 (111-96)	66	massimi	0.00	41.23919	0.15363	11.56286	-7.09916	-13.30868	0.11
Asta 36 (111-96)	66	massimi	191.50	41.23919	0.15363	5.24336	-7.09916	2.11512	-0.179
Asta 36 (111-96)	66	massimi	383.00	41.23919	0.15363	-1.07614	-7.09916	6.10523	-0.443
Asta 36 (111-96)	66	minimi	0.00	39.104	0.13768	11.07409	-7.52927	-13.97684	0.085
Asta 36 (111-96)	66	minimi	191.50	39.104	0.13768	4.98439	-7.52927	2.06732	-0.184
Asta 36 (111-96)	66	minimi	383.00	39.104	0.13768	-1.10531	-7.52927	5.78155	-0.478
Asta 37 (116-101)	67	massimi	0.00	38.39773	-0.86578	-12.62936	0.4419	31.71633	-1.255
Asta 37 (116-101)	67	massimi	173.00	38.39773	-0.86578	-22.33466	0.4419	-1.23903	0.244
Asta 37 (116-101)	67	massimi	346.00	38.39773	-0.86578	-32.03996	0.4419	-48.27309	1.823
Asta 37 (116-101)	67	minimi	0.00	35.57891	-0.91295	-14.07735	0.37926	29.00485	-1.336
Asta 37 (116-101)	67	minimi	173.00	35.57891	-0.91295	-24.19785	0.37926	-1.39172	0.243
Asta 37 (116-101)	67	minimi	346.00	35.57891	-0.91295	-34.31835	0.37926	-52.00823	1.741
Asta 38 (106-111)	68	massimi	0.00	17.58295	0.02548	9.59933	-1.37945	-8.18645	0.131
Asta 38 (106-111)	68	massimi	307.50	17.58295	0.02548	-0.41285	-1.37945	5.72531	0.053
Asta 38 (106-111)	68	massimi	615.00	17.58295	0.02548	-10.19135	-1.37945	-10.72548	-0.026
Asta 38 (106-111)	68	minimi	0.00	15.91704	0.02508	9.36565	-1.45174	-8.19086	0.128
Asta 38 (106-111)	68	minimi	307.50	15.91704	0.02508	-0.54817	-1.45174	5.57848	0.051
Asta 38 (106-111)	68	minimi	615.00	15.91704	0.02508	-10.69567	-1.45174	-11.56209	-0.027
Asta 39	69	massimi	0.00	32.44861	-0.56511	-9.20641	-0.17652	15.02175	-0.754

(121-106)									
Asta 39 (121-106)	69	massimi	127.00	32.44861	-0.56511	-16.33111	-0.17652	-2.69352	-0.019
Asta 39 (121-106)	69	massimi	254.00	32.44861	-0.56511	-23.45581	-0.17652	-27.95822	0.783
Asta 39 (121-106)	69	minimi	0.00	30.08369	-0.63153	-10.3439	-0.18659	13.5228	-0.821
Asta 39 (121-106)	69	minimi	127.00	30.08369	-0.63153	-17.7734	-0.18659	-2.83274	-0.037
Asta 39 (121-106)	69	minimi	254.00	30.08369	-0.63153	-25.2029	-0.18659	-30.1227	0.681
Asta 40 (111-141)	70	massimi	0.00	25.94955	-0.37816	-2.05773	1.78627	15.98881	-0.882
Asta 40 (111-141)	70	massimi	165.00	25.94955	-0.37816	-7.30473	1.78627	7.59333	-0.258
Asta 40 (111-141)	70	massimi	330.00	25.94955	-0.37816	-12.55173	1.78627	-9.10668	0.366
Asta 40 (111-141)	70	minimi	0.00	24.66296	-0.39019	-2.36567	1.59129	14.99894	-0.921
Asta 40 (111-141)	70	minimi	165.00	24.66296	-0.39019	-7.81067	1.59129	7.27491	-0.278
Asta 40 (111-141)	70	minimi	330.00	24.66296	-0.39019	-13.25568	1.59129	-9.78641	0.366
Asta 41 (116-121)	71	massimi	0.00	61.1886	0.32545	17.75655	-0.49054	-11.62661	1.351
Asta 41 (116-121)	71	massimi	330.00	61.1886	0.32545	-1.43723	-0.49054	14.86912	0.277
Asta 41 (116-121)	71	massimi	660.00	61.1886	0.32545	-19.95023	-0.49054	-21.11234	-0.736
Asta 41 (116-121)	71	minimi	0.00	56.72002	0.30307	17.07577	-0.50915	-11.87423	1.264
Asta 41 (116-121)	71	minimi	330.00	56.72002	0.30307	-1.54845	-0.50915	14.17698	0.264
Asta 41 (116-121)	71	minimi	660.00	56.72002	0.30307	-20.85345	-0.50915	-22.09403	-0.797
Asta 42 (126-116)	72	massimi	0.00	10.82464	-0.07484	10.40913	2.52232	-9.6804	-0.344
Asta 42 (126-116)	72	massimi	330.00	10.82464	-0.07484	-0.45666	2.52232	6.26981	-0.097
Asta 42 (126-116)	72	massimi	660.00	10.82464	-0.07484	-10.95066	2.52232	-12.69433	0.165
Asta 42 (126-116)	72	minimi	0.00	9.87903	-0.08133	10.03735	2.35135	-10.11182	-0.372
Asta 42 (126-116)	72	minimi	330.00	9.87903	-0.08133	-0.48087	2.35135	6.12773	-0.103
Asta 42 (126-116)	72	minimi	660.00	9.87903	-0.08133	-11.37087	2.35135	-13.28555	0.15

Asta 43 (121-136)	73	massimi	0.00	9.31317	-0.91007	8.75294	-0.50462	-6.76058	-1.422
Asta 43 (121-136)	73	massimi	165.00	9.31317	-0.91007	3.30794	-0.50462	2.52735	0.087
Asta 43 (121-136)	73	massimi	330.00	9.31317	-0.91007	-2.13706	-0.50462	3.49333	1.699
Asta 43 (121-136)	73	minimi	0.00	8.44441	-0.97714	8.18215	-0.51613	-7.42288	-1.525
Asta 43 (121-136)	73	minimi	165.00	8.44441	-0.97714	2.93515	-0.51613	2.41119	0.08
Asta 43 (121-136)	73	minimi	330.00	8.44441	-0.97714	-2.31185	-0.51613	2.92541	1.581
Asta 44 (131-126)	74	massimi	0.00	13.02279	-0.06867	10.68857	-0.46256	-10.00897	-0.198
Asta 44 (131-126)	74	massimi	330.00	13.02279	-0.06867	-0.19294	-0.46256	6.93507	0.031
Asta 44 (131-126)	74	massimi	660.00	13.02279	-0.06867	-10.68694	-0.46256	-11.28237	0.271
Asta 44 (131-126)	74	minimi	0.00	12.44428	-0.07297	10.30106	-0.53642	-10.36871	-0.21
Asta 44 (131-126)	74	minimi	330.00	12.44428	-0.07297	-0.20143	-0.53642	6.66943	0.029
Asta 44 (131-126)	74	minimi	660.00	12.44428	-0.07297	-11.09143	-0.53642	-11.69815	0.255
Asta 45 (136-131)	75	massimi	0.00	8.62836	0.44369	-0.40445	1.27619	7.6638	0.704
Asta 45 (136-131)	75	massimi	165.00	8.62836	0.44369	-5.65145	1.27619	1.79775	-0.026
Asta 45 (136-131)	75	massimi	330.00	8.62836	0.44369	-10.89845	1.27619	-11.92493	-0.702
Asta 45 (136-131)	75	minimi	0.00	7.84105	0.40982	-0.83268	1.21714	6.72486	0.65
Asta 45 (136-131)	75	minimi	165.00	7.84105	0.40982	-6.27768	1.21714	1.72874	-0.029
Asta 45 (136-131)	75	minimi	330.00	7.84105	0.40982	-11.72268	1.21714	-13.05255	-0.761
Asta 46 (156-131)	76	massimi	0.00	6.40395	0.01549	9.85956	-0.39686	-6.51931	0.181
Asta 46 (156-131)	76	massimi	244.50	6.40395	0.01549	1.79106	-0.39686	7.34538	0.15
Asta 46 (156-131)	76	massimi	489.00	6.40395	0.01549	-6.1115	-0.39686	1.86078	0.119
Asta 46 (156-131)	76	minimi	0.00	6.09964	0.01272	9.4387	-0.41651	-6.8975	0.179
Asta 46 (156-131)	76	minimi	244.50	6.09964	0.01272	1.6636	-0.41651	7.05325	0.141
Asta 46 (156-131)	76	minimi	489.00	6.09964	0.01272	-6.27744	-0.41651	1.61568	0.103

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Asta 47 (136-151)	77	massimi	0.00	8.47946	-0.02759	6.72435	-0.42517	-1.87716	-0.137
Asta 47 (136-151)	77	massimi	244.50	8.47946	-0.02759	-1.21902	-0.42517	4.70014	-0.069
Asta 47 (136-151)	77	massimi	489.00	8.47946	-0.02759	-8.99412	-0.42517	-7.97458	0.004
Asta 47 (136-151)	77	minimi	0.00	7.97971	-0.03201	6.55609	-0.43129	-2.0136	-0.153
Asta 47 (136-151)	77	minimi	244.50	7.97971	-0.03201	-1.34415	-0.43129	4.51097	-0.074
Asta 47 (136-151)	77	minimi	489.00	7.97971	-0.03201	-9.41265	-0.43129	-8.45005	-0.002
Asta 48 (146-141)	78	massimi	0.00	6.7438	-0.11122	-25.18737	-3.60092	-14.42864	0.174
Asta 48 (146-141)	78	massimi	165.00	3.31625	-0.49495	-1.95018	-3.60092	-50.56685	0.416
Asta 48 (146-141)	78	massimi	330.00	-0.08617	-2.67035	168.52803	-3.60092	59.01079	3.027
Asta 48 (146-141)	78	minimi	0.00	6.34092	-0.13101	-25.46129	-3.62351	-15.35244	0.124
Asta 48 (146-141)	78	minimi	165.00	3.11291	-0.55483	-2.0929	-3.62351	-52.62037	0.411
Asta 48 (146-141)	78	minimi	330.00	-0.09153	-2.91386	161.20077	-3.62352	56.35742	2.80
Asta 49 (151-141)	79	massimi	0.00	2.62015	0.61061	-2.06243	-4.84771	11.52537	1.022
Asta 49 (151-141)	79	massimi	190.00	2.62015	0.61061	-8.10443	-4.84771	1.05737	-0.126
Asta 49 (151-141)	79	massimi	380.00	2.62015	0.61061	-14.14643	-4.84771	-20.08878	-1.214
Asta 49 (151-141)	79	minimi	0.00	2.4907	0.57269	-2.37447	-5.08216	10.70805	0.962
Asta 49 (151-141)	79	minimi	190.00	2.4907	0.57269	-8.64447	-5.08216	1.04954	-0.138
Asta 49 (151-141)	79	minimi	380.00	2.4907	0.57269	-14.91447	-5.08216	-21.32362	-1.298
Asta 50 (156-146)	80	massimi	0.00	2.42874	0.59152	-113.89708	-5.12874	17.89041	-0.302
Asta 50 (156-146)	80	massimi	190.00	1.72088	0.15497	17.86917	-5.12875	-45.86548	-1.223
Asta 50 (156-146)	80	massimi	380.00	1.03032	-2.36336	24.18309	-5.12875	4.27826	0.514
Asta 50 (156-146)	80	minimi	0.00	2.27944	0.54574	-119.29924	-5.44569	17.13213	-0.317
Asta 50 (156-146)	80	minimi	190.00	1.60738	0.13212	16.91874	-5.44569	-47.81493	-1.319
Asta 50	80	minimi	380.00	0.95146	-2.48986	23.86564	-5.4457	4.26037	0.491

(156-146)									
Asta 51 (12-2)	81	massimi	0.00	-1.48665	-0.5079	16.96563	-1.35409	-2.68624	-1.003
Asta 51 (12-2)	81	massimi	237.00	-1.48665	-0.5079	-5.28477	-1.35409	9.87617	0.209
Asta 51 (12-2)	81	massimi	474.00	-1.48665	-0.5079	-27.53517	-1.35409	-29.01545	1.525
Asta 51 (12-2)	81	minimi	0.00	-1.62953	-0.55546	16.42447	-1.63591	-3.96565	-1.108
Asta 51 (12-2)	81	minimi	237.00	-1.62953	-0.55546	-5.82593	-1.63591	9.87304	0.201
Asta 51 (12-2)	81	minimi	474.00	-1.62953	-0.55546	-28.07632	-1.63591	-30.30113	1.405
Asta 52 (2-222)	82	massimi	0.00	3.43626	0.45834	74.70415	-0.55355	-70.53577	1.526
Asta 52 (2-222)	82	massimi	315.00	3.43626	0.45834	5.00725	-0.55355	43.2854	0.083
Asta 52 (2-222)	82	massimi	630.00	3.43626	0.45834	-58.93813	-0.55355	-49.19283	-1.287
Asta 52 (2-222)	82	minimi	0.00	2.29608	0.42295	65.71367	-0.56717	-82.26006	1.378
Asta 52 (2-222)	82	minimi	315.00	2.29608	0.42295	3.38777	-0.56717	38.29899	0.046
Asta 52 (2-222)	82	minimi	630.00	2.29608	0.42295	-64.68965	-0.56717	-50.71437	-1.361
Asta 53 (7-17)	83	massimi	0.00	-2.3556	0.32527	35.98306	-1.03511	-47.28243	0.589
Asta 53 (7-17)	83	massimi	237.00	-2.3556	0.32527	13.73267	-1.03511	9.14473	-0.182
Asta 53 (7-17)	83	massimi	474.00	-2.3556	0.32527	-8.51773	-1.03511	15.25112	-0.929
Asta 53 (7-17)	83	minimi	0.00	-2.52881	0.30919	34.93413	-1.06623	-49.84172	0.537
Asta 53 (7-17)	83	minimi	237.00	-2.52881	0.30919	12.68373	-1.06623	9.07142	-0.196
Asta 53 (7-17)	83	minimi	474.00	-2.52881	0.30919	-9.56667	-1.06623	12.83845	-0.953
Asta 54 (222-7)	84	massimi	0.00	5.05401	-0.27683	62.37544	0.99872	-46.67922	-1.298
Asta 54 (222-7)	84	massimi	315.00	5.05401	-0.27683	-5.45494	0.99872	38.81525	-0.426
Asta 54 (222-7)	84	massimi	630.00	5.05401	-0.27683	-67.78084	0.99872	-81.04534	0.446
Asta 54 (222-7)	84	minimi	0.00	4.11092	-0.28536	56.87096	0.93366	-47.89478	-1.364
Asta 54 (222-7)	84	minimi	315.00	4.11092	-0.28536	-7.32146	0.93366	34.30101	-0.465
Asta 54 (222-7)	84	minimi	630.00	4.11092	-0.28536	-77.01836	0.93366	-94.01996	0.434
Asta 55 (27-12)	85	massimi	0.00	-2.76227	-0.26414	22.8375	-0.51051	-17.97175	-0.732
Asta 55 (27-12)	85	massimi	237.00	-2.76227	-0.26414	0.5871	-0.51051	9.76169	-0.106
Asta 55 (27-12)	85	massimi	474.00	-2.76227	-0.26414	-21.6633	-0.51051	-15.21361	0.542
Asta 55 (27-12)	85	minimi	0.00	-3.00222	-0.28233	22.79185	-0.5571	-17.99646	-0.796
Asta 55 (27-12)	85	minimi	237.00	-3.00222	-0.28233	0.54146	-0.5571	9.67822	-0.127
Asta 55 (27-12)	85	minimi	474.00	-3.00222	-0.28233	-21.70894	-0.5571	-15.40525	0.52
Asta 56 (12-227)	86	massimi	0.00	2.85144	0.45474	134.80986	-0.05451	-134.36181	1.853
Asta 56 (12-227)	86	massimi	315.00	2.85144	0.45474	12.89856	-0.05451	76.06396	0.421
Asta 56 (12-227)	86	massimi	630.00	2.85144	0.45474	-97.6766	-0.05451	-72.17637	-0.929
Asta 56 (12-227)	86	minimi	0.00	-1.03609	0.41216	117.418	-0.05559	-156.57679	1.668

Asta 56 (12-227)	86	minimi	315.00	-1.03609	0.41216	9.8707	-0.05559	66.11791	0.369
Asta 56 (12-227)	86	minimi	630.00	-1.03609	0.41216	-109.01274	-0.05559	-75.31588	-1.011
Asta 57 (22-17)	87	massimi	0.00	1.9077	-0.68787	78.50541	3.65857	-32.01695	-2.106
Asta 57 (22-17)	87	massimi	307.50	1.9077	-0.68787	-8.6997	3.65857	71.18091	0.009
Asta 57 (22-17)	87	massimi	615.00	1.9077	-0.68787	-90.81665	3.65857	-85.52008	2.167
Asta 57 (22-17)	87	minimi	0.00	1.7778	-0.70301	73.41726	3.46744	-33.47266	-2.157
Asta 57 (22-17)	87	minimi	307.50	1.7778	-0.70301	-10.43804	3.46744	67.4863	0.005
Asta 57 (22-17)	87	minimi	615.00	1.7778	-0.70301	-99.3815	3.46744	-97.66664	2.124
Asta 58 (17-32)	88	massimi	0.00	-5.01159	0.40203	25.65209	-1.18979	-22.93594	1.185
Asta 58 (17-32)	88	massimi	237.00	-5.01159	0.40203	3.40169	-1.18979	10.76612	0.232
Asta 58 (17-32)	88	massimi	474.00	-5.01159	0.40203	-18.84871	-1.18979	-7.5386	-0.721
Asta 58 (17-32)	88	minimi	0.00	-5.41313	0.39496	25.28127	-1.33674	-23.6626	1.151
Asta 58 (17-32)	88	minimi	237.00	-5.41313	0.39496	3.03087	-1.33674	10.61396	0.215
Asta 58 (17-32)	88	minimi	474.00	-5.41313	0.39496	-19.21952	-1.33674	-8.56959	-0.721
Asta 59 (227-17)	89	massimi	0.00	4.55524	-0.04212	103.93772	1.09363	-69.23463	-0.861
Asta 59 (227-17)	89	massimi	315.00	4.55524	-0.04212	-14.16662	1.09363	63.65315	-0.729
Asta 59 (227-17)	89	massimi	630.00	4.55524	-0.04212	-121.71392	1.09363	-158.48431	-0.596
Asta 59 (227-17)	89	minimi	0.00	1.04331	-0.04501	93.38068	0.99008	-71.74036	-0.931
Asta 59 (227-17)	89	minimi	315.00	1.04331	-0.04501	-17.97358	0.99008	55.52753	-0.789
Asta 59 (227-17)	89	minimi	630.00	1.04331	-0.04501	-139.88488	0.99008	-184.97393	-0.647
Asta 60 (37-22)	90	massimi	0.00	-9.37308	0.63958	12.11921	2.66437	33.72663	0.932
Asta 60 (37-22)	90	massimi	237.00	-9.37308	0.63958	-17.41169	2.66437	23.25844	-0.563
Asta 60 (37-22)	90	massimi	474.00	-9.37308	0.63958	-46.94259	2.66437	-53.78175	-2.059
Asta 60 (37-22)	90	minimi	0.00	-9.90098	0.63101	10.34849	1.81001	28.74966	0.922
Asta 60 (37-22)	90	minimi	237.00	-9.90098	0.63101	-19.18241	1.81001	22.47807	-0.594
Asta 60 (37-22)	90	minimi	474.00	-9.90098	0.63101	-48.71331	1.81001	-57.19797	-2.109
Asta 61 (42-27)	91	massimi	0.00	-3.32623	0.06462	22.78578	-0.03256	-18.67297	-0.196
Asta 61 (42-27)	91	massimi	237.00	-3.32623	0.06462	0.53538	-0.03256	8.86191	-0.343
Asta 61 (42-27)	91	massimi	474.00	-3.32623	0.06462	-21.71502	-0.03256	-16.23596	-0.49
Asta 61 (42-27)	91	minimi	0.00	-3.60819	0.06196	22.74042	-0.03726	-18.77366	-0.212
Asta 61 (42-27)	91	minimi	237.00	-3.60819	0.06196	0.49003	-0.03726	8.85511	-0.365
Asta 61 (42-27)	91	minimi	474.00	-3.60819	0.06196	-21.76037	-0.03726	-16.35025	-0.518
Asta 62 (27-232)	92	massimi	0.00	3.51716	0.14722	131.28127	0.00382	-122.98472	0.647
Asta 62 (27-232)	92	massimi	315.00	3.51716	0.14722	9.36997	0.00382	77.39255	0.184
Asta 62 (27-232)	92	massimi	630.00	3.51716	0.14722	-100.88914	0.00382	-81.0383	-0.258

Asta 62 (27-232)	92	minimi	0.00	-0.26146	0.13461	114.20546	-0.01064	-144.13317	0.59
Asta 62 (27-232)	92	minimi	315.00	-0.26146	0.13461	6.65816	-0.01064	67.37549	0.166
Asta 62 (27-232)	92	minimi	630.00	-0.26146	0.13461	-112.54133	-0.01064	-85.10234	-0.28
Asta 63 (37-32)	93	massimi	0.00	4.30376	-1.07571	104.74277	2.8727	-50.01834	-3.378
Asta 63 (37-32)	93	massimi	307.50	4.30376	-1.07571	-12.27921	2.8727	83.13168	-0.07
Asta 63 (37-32)	93	massimi	615.00	4.30376	-1.07571	-117.26586	2.8727	-125.53546	3.38
Asta 63 (37-32)	93	minimi	0.00	3.83197	-1.12227	92.70744	2.70164	-55.97654	-3.522
Asta 63 (37-32)	93	minimi	307.50	3.83197	-1.12227	-14.26588	2.70164	73.64007	-0.071
Asta 63 (37-32)	93	minimi	615.00	3.83197	-1.12227	-133.27453	2.70164	-143.71169	3.238
Asta 64 (32-47)	94	massimi	0.00	-6.13201	0.82988	22.96888	-0.20953	-18.51007	2.179
Asta 64 (32-47)	94	massimi	237.00	-6.13201	0.82988	0.71849	-0.20953	9.55847	0.212
Asta 64 (32-47)	94	massimi	474.00	-6.13201	0.82988	-21.53191	-0.20953	-15.10644	-1.673
Asta 64 (32-47)	94	minimi	0.00	-6.6388	0.78817	22.96846	-0.22728	-18.59269	2.063
Asta 64 (32-47)	94	minimi	237.00	-6.6388	0.78817	0.71807	-0.22728	9.47685	0.195
Asta 64 (32-47)	94	minimi	474.00	-6.6388	0.78817	-21.53233	-0.22728	-15.18706	-1.755
Asta 65 (232-32)	95	massimi	0.00	6.18257	0.04901	104.8549	0.27402	-76.42865	-0.262
Asta 65 (232-32)	95	massimi	315.00	6.18257	0.04901	-13.33867	0.27402	58.50444	-0.401
Asta 65 (232-32)	95	massimi	630.00	6.18257	0.04901	-120.88597	0.27402	-160.46225	-0.541
Asta 65 (232-32)	95	minimi	0.00	2.81226	0.04426	94.20863	0.23592	-79.7782	-0.279
Asta 65 (232-32)	95	minimi	315.00	2.81226	0.04426	-17.0564	0.23592	50.94155	-0.434
Asta 65 (232-32)	95	minimi	630.00	2.81226	0.04426	-138.9677	0.23592	-187.23351	-0.588
Asta 66 (52-37)	96	massimi	0.00	-20.12648	0.70921	18.30756	-2.11755	36.18681	0.728
Asta 66 (52-37)	96	massimi	237.00	-20.12648	0.70921	-11.22334	-2.11755	43.85489	-0.885
Asta 66 (52-37)	96	massimi	474.00	-20.12648	0.70921	-40.75424	-2.11755	-18.46526	-2.477
Asta 66 (52-37)	96	minimi	0.00	-21.28519	0.67198	18.00093	-2.15729	32.8618	0.708
Asta 66 (52-37)	96	minimi	237.00	-21.28519	0.67198	-11.52997	-2.15729	41.25659	-0.953
Asta 66 (52-37)	96	minimi	474.00	-21.28519	0.67198	-41.06087	-2.15729	-20.33685	-2.634
Asta 67 (72-42)	97	massimi	0.00	-3.70682	0.31653	22.64604	0.44928	-17.98583	0.539
Asta 67 (72-42)	97	massimi	237.00	-3.70682	0.31653	0.39564	0.44928	9.29868	-0.185
Asta 67 (72-42)	97	massimi	474.00	-3.70682	0.31653	-21.85476	0.44928	-16.13037	-0.91
Asta 67 (72-42)	97	minimi	0.00	-4.00846	0.30576	22.61372	0.41378	-18.00571	0.537
Asta 67 (72-42)	97	minimi	237.00	-4.00846	0.30576	0.36332	0.41378	9.24196	-0.214
Asta 67 (72-42)	97	minimi	474.00	-4.00846	0.30576	-21.88708	0.41378	-16.2637	-0.964
Asta 68 (42-237)	98	massimi	0.00	2.24608	-0.11257	131.04938	-0.0872	-122.47693	-0.716
Asta 68 (42-237)	98	massimi	315.00	2.24608	-0.11257	9.13808	-0.0872	77.24031	-0.362

Asta 68 (42-237)	98	massimi	630.00	2.24608	-0.11257	-101.09379	-0.0872	-81.8198	-0.003
Asta 68 (42-237)	98	minimi	0.00	-1.60594	-0.11935	114.00081	-0.08831	-143.55494	-0.755
Asta 68 (42-237)	98	minimi	315.00	-1.60594	-0.11935	6.45351	-0.08831	67.23863	-0.379
Asta 68 (42-237)	98	minimi	630.00	-1.60594	-0.11935	-112.77322	-0.08831	-85.98504	-0.007
Asta 69 (52-47)	99	massimi	0.00	0.20892	-1.8055	100.28774	0.36384	-39.84556	-5.908
Asta 69 (52-47)	99	massimi	307.50	0.20892	-1.8055	-16.4424	0.36384	80.52266	-0.356
Asta 69 (52-47)	99	massimi	615.00	0.20892	-1.8055	-121.42905	0.36384	-140.96632	5.496
Asta 69 (52-47)	99	minimi	0.00	-0.51994	-1.90981	88.54425	0.34611	-44.88635	-6.249
Asta 69 (52-47)	99	minimi	307.50	-0.51994	-1.90981	-18.72091	0.34611	71.01104	-0.377
Asta 69 (52-47)	99	minimi	615.00	-0.51994	-1.90981	-137.72956	0.34611	-160.01993	5.196
Asta 70 (47-77)	100	massimi	0.00	-6.40348	1.36212	22.61776	0.67616	-17.16458	3.392
Asta 70 (47-77)	100	massimi	237.00	-6.40348	1.36212	0.36736	0.67616	9.98831	0.164
Asta 70 (47-77)	100	massimi	474.00	-6.40348	1.36212	-21.88303	0.67616	-15.59223	-2.893
Asta 70 (47-77)	100	minimi	0.00	-6.92838	1.28492	22.58212	0.63406	-17.34412	3.197
Asta 70 (47-77)	100	minimi	237.00	-6.92838	1.28492	0.33172	0.63406	9.89326	0.152
Asta 70 (47-77)	100	minimi	474.00	-6.92838	1.28492	-21.91868	0.63406	-15.60281	-3.064
Asta 71 (237-47)	101	massimi	0.00	4.50446	-0.02475	105.08291	-0.15765	-77.78219	-0.121
Asta 71 (237-47)	101	massimi	315.00	4.50446	-0.02475	-13.1408	-0.15765	57.72563	-0.04
Asta 71 (237-47)	101	massimi	630.00	4.50446	-0.02475	-120.6881	-0.15765	-160.56925	0.041
Asta 71 (237-47)	101	minimi	0.00	1.03084	-0.02592	94.4065	-0.16289	-81.27523	-0.122
Asta 71 (237-47)	101	minimi	315.00	1.03084	-0.02592	-16.82839	-0.16289	50.21127	-0.043
Asta 71 (237-47)	101	minimi	630.00	1.03084	-0.02592	-138.73969	-0.16289	-187.29411	0.034
Asta 72 (67-52)	102	massimi	0.00	-15.15476	1.87812	-11.7856	1.536	57.8837	0.191
Asta 72 (67-52)	102	massimi	116.50	-15.15476	1.87812	-22.95893	1.536	37.39544	-1.877
Asta 72 (67-52)	102	massimi	233.00	-15.15476	1.87812	-34.13226	1.536	3.89026	-3.944
Asta 72 (67-52)	102	minimi	0.00	-16.2619	1.77396	-11.99983	1.43553	55.20931	0.189
Asta 72 (67-52)	102	minimi	116.50	-16.2619	1.77396	-23.17315	1.43553	34.97062	-1.997
Asta 72 (67-52)	102	minimi	233.00	-16.2619	1.77396	-34.34648	1.43553	1.71501	-4.185
Asta 73 (82-67)	103	massimi	0.00	-15.15476	1.87812	11.3446	1.536	58.93138	4.717
Asta 73 (82-67)	103	massimi	120.50	-15.15476	1.87812	-0.2205	1.536	65.37552	2.454
Asta 73 (82-67)	103	massimi	241.00	-15.15476	1.87812	-11.7856	1.536	57.8837	0.191
Asta 73 (82-67)	103	minimi	0.00	-16.2619	1.77396	11.13038	1.43553	55.74072	4.464
Asta 73 (82-67)	103	minimi	120.50	-16.2619	1.77396	-0.43472	1.43553	62.44299	2.327
Asta 73 (82-67)	103	minimi	241.00	-16.2619	1.77396	-11.99983	1.43553	55.20931	0.189
Asta 74 (102-72)	104	massimi	0.00	-3.96464	1.03962	26.09304	-0.32718	-25.19614	3.324

Asta 74 (102-72)	104	massimi	237.00	-3.96464	1.03962	3.84264	-0.32718	9.19397	0.86
Asta 74 (102-72)	104	massimi	474.00	-3.96464	1.03962	-18.40776	-0.32718	-8.14965	-1.46
Asta 74 (102-72)	104	minimi	0.00	-4.26206	0.9582	25.63579	-0.56552	-26.36376	3.082
Asta 74 (102-72)	104	minimi	237.00	-4.26206	0.9582	3.38539	-0.56552	9.11002	0.811
Asta 74 (102-72)	104	minimi	474.00	-4.26206	0.9582	-18.865	-0.56552	-9.14937	-1.604
Asta 75 (72-242)	105	massimi	0.00	-1.21731	-0.32634	133.24733	-0.06704	-131.08378	-1.688
Asta 75 (72-242)	105	massimi	315.00	-1.21731	-0.32634	11.33603	-0.06704	74.78638	-0.66
Asta 75 (72-242)	105	massimi	630.00	-1.21731	-0.32634	-99.07888	-0.06704	-77.73271	0.412
Asta 75 (72-242)	105	minimi	0.00	-5.13962	-0.35924	116.01572	-0.08289	-152.93241	-1.852
Asta 75 (72-242)	105	minimi	315.00	-5.13962	-0.35924	8.46842	-0.08289	64.97875	-0.72
Asta 75 (72-242)	105	minimi	630.00	-5.13962	-0.35924	-110.57527	-0.08289	-81.51542	0.368
Asta 76 (82-77)	106	massimi	0.00	-6.82105	-1.83339	100.62316	-3.31016	-41.29877	-5.667
Asta 76 (82-77)	106	massimi	307.50	-6.82105	-1.83339	-16.19334	-3.31016	79.79862	-0.03
Asta 76 (82-77)	106	massimi	615.00	-6.82105	-1.83339	-121.17999	-3.31016	-140.88779	5.958
Asta 76 (82-77)	106	minimi	0.00	-7.94026	-1.94838	88.79331	-3.51448	-46.6418	-6.024
Asta 76 (82-77)	106	minimi	307.50	-7.94026	-1.94838	-18.38549	-3.51448	70.3237	-0.033
Asta 76 (82-77)	106	minimi	615.00	-7.94026	-1.94838	-137.39414	-3.51448	-159.71257	5.608
Asta 77 (77-107)	107	massimi	0.00	-6.48809	0.82541	17.69754	1.40549	-4.21755	2.262
Asta 77 (77-107)	107	massimi	237.00	-6.48809	0.82541	-4.55286	1.40549	10.0611	0.305
Asta 77 (77-107)	107	massimi	474.00	-6.48809	0.82541	-26.80326	1.40549	-27.09589	-1.529
Asta 77 (77-107)	107	minimi	0.00	-7.01526	0.76391	17.14323	1.34536	-5.51535	2.092
Asta 77 (77-107)	107	minimi	237.00	-7.01526	0.76391	-5.10717	1.34536	10.04518	0.282
Asta 77 (77-107)	107	minimi	474.00	-7.01526	0.76391	-27.35757	1.34536	-28.42553	-1.651
Asta 78 (242-77)	108	massimi	0.00	-1.73217	-0.00808	106.24585	-0.65669	-77.96004	0.216
Asta 78 (242-77)	108	massimi	315.00	-1.73217	-0.00808	-12.02427	-0.65669	61.29127	0.242
Asta 78 (242-77)	108	massimi	630.00	-1.73217	-0.00808	-119.57157	-0.65669	-153.71297	0.267
Asta 78 (242-77)	108	minimi	0.00	-5.47146	-0.01131	95.52303	-0.70574	-81.37285	0.185
Asta 78 (242-77)	108	minimi	315.00	-5.47146	-0.01131	-15.66545	-0.70574	53.55049	0.22
Asta 78 (242-77)	108	minimi	630.00	-5.47146	-0.01131	-137.57675	-0.70574	-180.0652	0.256
Asta 79 (97-82)	109	massimi	0.00	-13.86187	-0.46357	-7.76227	6.00097	77.62655	-1.377
Asta 79 (97-82)	109	massimi	45.50	-13.86187	-0.46357	-11.98157	6.00097	73.13482	-1.166
Asta 79 (97-82)	109	massimi	91.00	-13.86187	-0.46357	-16.20088	6.00097	66.72332	-0.955
Asta 79 (97-82)	109	minimi	0.00	-14.8871	-0.48605	-8.06787	5.82829	73.90028	-1.496
Asta 79 (97-82)	109	minimi	45.50	-14.8871	-0.48605	-12.28717	5.82829	69.2695	-1.275
Asta 79 (97-82)	109	minimi	91.00	-14.8871	-0.48605	-16.50647	5.82829	62.71895	-1.053

Asta 80 (112-97)	110	massimi	0.00	-13.86187	-0.46357	29.27598	6.00097	36.42779	-3.153
Asta 80 (112-97)	110	massimi	191.50	-13.86187	-0.46357	10.75686	6.00097	74.75923	-2.265
Asta 80 (112-97)	110	massimi	383.00	-13.86187	-0.46357	-7.76227	6.00097	77.62655	-1.377
Asta 80 (112-97)	110	minimi	0.00	-14.8871	-0.48605	28.97038	5.82829	33.87196	-3.357
Asta 80 (112-97)	110	minimi	191.50	-14.8871	-0.48605	10.45126	5.82829	71.61818	-2.427
Asta 80 (112-97)	110	minimi	383.00	-14.8871	-0.48605	-8.06787	5.82829	73.90028	-1.496
Asta 81 (102-117)	111	massimi	0.00	-22.67697	-2.54273	128.23335	9.17465	-183.46752	-3.538
Asta 81 (102-117)	111	massimi	173.00	-22.67697	-2.54273	81.42253	9.17465	-15.40006	0.883
Asta 81 (102-117)	111	massimi	346.00	-22.67697	-2.54273	34.6117	9.17465	83.7399	5.607
Asta 81 (102-117)	111	minimi	0.00	-24.03622	-2.73054	118.63394	8.32917	-197.98205	-3.84
Asta 81 (102-117)	111	minimi	173.00	-24.03622	-2.73054	75.66371	8.32917	-16.62971	0.861
Asta 81 (102-117)	111	minimi	346.00	-24.03622	-2.73054	32.69349	8.32917	78.32892	5.26
Asta 82 (112-107)	112	massimi	0.00	-10.60551	-3.31068	92.93528	-8.7598	-47.46074	-11.072
Asta 82 (112-107)	112	massimi	307.50	-10.60551	-3.31068	-8.4167	-8.7598	75.00444	-0.892
Asta 82 (112-107)	112	massimi	615.00	-10.60551	-3.31068	-99.08615	-8.7598	-99.22345	9.924
Asta 82 (112-107)	112	minimi	0.00	-11.76205	-3.53782	82.25275	-9.29481	-53.21247	-11.834
Asta 82 (112-107)	112	minimi	307.50	-11.76205	-3.53782	-9.54217	-9.29481	66.06218	-0.955
Asta 82 (112-107)	112	minimi	615.00	-11.76205	-3.53782	-112.01962	-9.29481	-111.89681	9.289
Asta 83 (122-107)	113	massimi	0.00	-19.14659	3.51006	-7.2654	-5.37336	-13.72058	0.785
Asta 83 (122-107)	113	massimi	127.00	-19.14659	3.51006	-50.74367	-5.37336	-50.55634	-3.442
Asta 83 (122-107)	113	massimi	254.00	-19.14659	3.51006	-94.22194	-5.37336	-142.6095	-7.579
Asta 83 (122-107)	113	minimi	0.00	-20.21921	3.25743	-7.6656	-5.86039	-14.89977	0.695
Asta 83 (122-107)	113	minimi	127.00	-20.21921	3.25743	-55.86827	-5.86039	-55.24377	-3.673
Asta 83 (122-107)	113	minimi	254.00	-20.21921	3.25743	-104.07094	-5.86039	-156.80517	-8.13
Asta 84 (142-112)	114	massimi	0.00	-20.36716	8.22184	77.22391	6.99402	-98.61178	11.97
Asta 84 (142-112)	114	massimi	165.00	-20.36716	8.22184	63.8707	6.99402	12.15484	-1.521

112)									
Asta 84 (142- 112)	114	massimi	330.00	-20.36716	8.22184	50.51749	6.99402	106.5251	-14.168
Asta 84 (142- 112)	114	minimi	0.00	-21.54501	7.66534	73.617	6.4919	-104.24822	11.127
Asta 84 (142- 112)	114	minimi	165.00	-21.54501	7.66534	60.26379	6.4919	11.83987	-1.596
Asta 84 (142- 112)	114	minimi	330.00	-21.54501	7.66534	46.91058	6.4919	100.25873	-15.162
Asta 85 (117- 122)	115	massimi	0.00	-37.75519	-2.05592	77.54754	-3.63189	1.94334	-5.154
Asta 85 (117- 122)	115	massimi	330.00	-37.75519	-2.05592	-12.74972	-3.63189	106.66986	1.749
Asta 85 (117- 122)	115	massimi	660.00	-37.75519	-2.05592	-96.62803	-3.63189	-82.20479	9.051
Asta 85 (117- 122)	115	minimi	0.00	-40.34958	-2.21271	71.12859	-3.96859	1.25008	-5.553
Asta 85 (117- 122)	115	minimi	330.00	-40.34958	-2.21271	-13.65677	-3.96859	98.26849	1.63
Asta 85 (117- 122)	115	minimi	660.00	-40.34958	-2.21271	-104.86108	-3.96859	-88.88458	8.415
Asta 86 (117- 127)	116	massimi	0.00	1.22422	2.99325	113.41914	15.67206	-51.70543	11.36
Asta 86 (117- 127)	116	massimi	330.00	1.22422	2.99325	3.0809	15.67206	136.06076	1.483
Asta 86 (117- 127)	116	massimi	660.00	1.22422	2.99325	-97.0908	15.67206	-32.87931	-7.828
Asta 86 (117- 127)	116	minimi	0.00	0.98429	2.79237	102.79568	14.33932	-56.16433	10.602
Asta 86 (117- 127)	116	minimi	330.00	0.98429	2.79237	2.85244	14.33932	122.61397	1.387
Asta 86 (117- 127)	116	minimi	660.00	0.98429	2.79237	-107.25733	14.33932	-35.83035	-8.395
Asta 87 (122- 137)	117	massimi	0.00	-8.15789	5.53746	57.28683	-7.2638	-18.6772	8.765
Asta 87 (122- 137)	117	massimi	165.00	-8.15789	5.53746	9.32133	-7.2638	34.37817	-0.35
Asta 87 (122- 137)	117	massimi	330.00	-8.15789	5.53746	-33.93946	-7.2638	10.18683	-8.879
Asta 87 (122- 137)	117	minimi	0.00	-8.92766	5.1691	51.20054	-7.94055	-20.57356	8.179
Asta 87 (122- 137)	117	minimi	165.00	-8.92766	5.1691	8.63054	-7.94055	30.68345	-0.372
Asta 87 (122- 137)	117	minimi	330.00	-8.92766	5.1691	-38.64417	-7.94055	9.80359	-9.509
Asta 88 (127- 132)	118	massimi	0.00	-8.95752	-1.80899	43.07879	-1.2482	-14.25856	-7.617
Asta 88	118	massimi	330.00	-8.95752	-1.80899	10.35654	-1.2482	73.90973	-1.647

(127-132)									
Asta 88 (127-132)	118	massimi	660.00	-8.95752	-1.80899	-22.36571	-1.2482	54.09461	4.629
Asta 88 (127-132)	118	minimi	0.00	-9.45651	-1.93888	42.43551	-1.26288	-14.42985	-8.167
Asta 88 (127-132)	118	minimi	330.00	-9.45651	-1.93888	9.71326	-1.26288	71.61563	-1.769
Asta 88 (127-132)	118	minimi	660.00	-9.45651	-1.93888	-23.00899	-1.26288	49.67768	4.322
Asta 89 (137-132)	119	massimi	0.00	-4.44201	3.01291	39.73133	9.38838	13.57467	1.416
Asta 89 (137-132)	119	massimi	165.00	-4.44201	3.01291	-11.62285	9.38838	35.86856	-3.301
Asta 89 (137-132)	119	massimi	330.00	-4.44201	3.01291	-58.8651	9.38838	-25.70175	-7.982
Asta 89 (137-132)	119	minimi	0.00	-4.97683	2.83694	35.61941	8.94955	12.65364	1.38
Asta 89 (137-132)	119	minimi	165.00	-4.97683	2.83694	-12.70843	8.94955	32.4508	-3.555
Asta 89 (137-132)	119	minimi	330.00	-4.97683	2.83694	-65.14818	8.94955	-28.36314	-8.527
Asta 90 (132-157)	120	massimi	0.00	-5.5447	-1.51066	-16.55576	-0.67777	83.17383	-3.993
Asta 90 (132-157)	120	massimi	244.50	-5.5447	-1.51066	-33.49961	-0.67777	17.13656	-0.277
Asta 90 (132-157)	120	massimi	489.00	-5.5447	-1.51066	-50.44346	-0.67777	-86.3108	3.707
Asta 90 (132-157)	120	minimi	0.00	-5.83564	-1.62962	-18.39048	-0.90033	77.50231	-4.262
Asta 90 (132-157)	120	minimi	244.50	-5.83564	-1.62962	-35.62773	-0.90033	16.30961	-0.299
Asta 90 (132-157)	120	minimi	489.00	-5.83564	-1.62962	-52.86498	-0.90033	-91.04579	3.395
Asta 91 (137-152)	121	massimi	0.00	-2.1444	-2.6649	47.44972	-2.84538	-19.15705	-9.851
Asta 91 (137-152)	121	massimi	244.50	-2.1444	-2.6649	-0.03868	-2.84538	37.3715	-3.336
Asta 91 (137-152)	121	massimi	489.00	-2.1444	-2.6649	-44.20008	-2.84538	-19.3462	3.361
Asta 91 (137-152)	121	minimi	0.00	-2.31642	-2.83048	44.12272	-2.94342	-20.17224	-10.48
Asta 91 (137-152)	121	minimi	244.50	-2.31642	-2.83048	-0.37918	-2.94342	34.73568	-3.56
Asta 91 (137-152)	121	minimi	489.00	-2.31642	-2.83048	-48.20808	-2.94342	-22.02642	3.18
Asta 92 (142-147)	122	massimi	0.00	-2.68397	-1.22384	6.40653	-3.08143	-16.30931	-4.964

Asta 92 (142-147)	122	massimi	165.00	-2.68397	-1.22384	-5.11668	-3.08143	-15.31836	-2.945
Asta 92 (142-147)	122	massimi	330.00	-2.68397	-1.22384	-16.55118	-3.08143	-33.19435	-0.875
Asta 92 (142-147)	122	minimi	0.00	-3.00277	-1.36349	6.31782	-3.51503	-17.53209	-5.375
Asta 92 (142-147)	122	minimi	165.00	-3.00277	-1.36349	-5.22597	-3.51503	-16.55812	-3.125
Asta 92 (142-147)	122	minimi	330.00	-3.00277	-1.36349	-16.85847	-3.51503	-34.77778	-0.926
Asta 93 (152-142)	123	massimi	0.00	4.80293	-0.91587	22.58059	-10.08146	10.05078	3.164
Asta 93 (152-142)	123	massimi	190.00	4.80293	-0.91587	-14.02945	-10.08146	17.18494	5.034
Asta 93 (152-142)	123	massimi	380.00	4.80293	-0.91587	-48.2337	-10.08146	-43.26114	6.904
Asta 93 (152-142)	123	minimi	0.00	4.50416	-0.98416	20.1748	-10.60807	9.48334	2.989
Asta 93 (152-142)	123	minimi	190.00	4.50416	-0.98416	-14.47366	-10.60807	15.88886	4.729
Asta 93 (152-142)	123	minimi	380.00	4.50416	-0.98416	-51.52791	-10.60807	-45.51655	6.469
Asta 94 (157-147)	124	massimi	0.00	1.08676	0.88558	29.5688	-8.76517	-62.38487	4.046
Asta 94 (157-147)	124	massimi	190.00	1.08676	0.88558	16.1738	-8.76517	-20.91001	2.363
Asta 94 (157-147)	124	massimi	380.00	1.08676	0.88558	2.7788	-8.76517	-4.36831	0.758
Asta 94 (157-147)	124	minimi	0.00	1.01715	0.77551	28.41237	-9.04536	-65.82873	3.705
Asta 94 (157-147)	124	minimi	190.00	1.01715	0.77551	15.24537	-9.04536	-22.37327	2.232
Asta 94 (157-147)	124	minimi	380.00	1.01715	0.77551	2.07837	-9.04536	-4.45245	0.681
Asta 95 (2-1)	125	massimi	0.00	-349.84631	22.76532	10.75277	0.34856	-14.44618	39.894
Asta 95 (2-1)	125	massimi	130.00	-355.69631	22.76532	10.75277	0.34856	-1.13795	10.299
Asta 95 (2-1)	125	massimi	260.00	-361.54631	22.76532	10.75277	0.34856	12.84066	-17.545
Asta 95 (2-1)	125	minimi	0.00	-364.46866	19.52982	10.23255	0.26421	-15.11655	33.233
Asta 95 (2-1)	125	minimi	130.00	-370.31866	19.52982	10.23255	0.26421	-1.14387	7.844
Asta 95 (2-1)	125	minimi	260.00	-376.16866	19.52982	10.23255	0.26421	12.15844	-19.296
Asta 96 (7-6)	126	massimi	0.00	-370.64353	-21.607	18.07073	1.25449	-23.9998	-33.67
Asta 96 (7-6)	126	massimi	130.00	-376.49353	-21.607	18.07073	1.25449	-1.77879	-5.581
Asta 96 (7-6)	126	massimi	260.00	-382.34353	-21.607	18.07073	1.25449	21.66083	24.832
Asta 96 (7-6)	126	minimi	0.00	-386.8619	-25.11427	17.09308	1.17807	-25.32306	-40.466

Asta 96 (7-6)	126	minimi	130.00	-392.7119	-25.11427	17.09308	1.17807	-1.83112	-7.817
Asta 96 (7-6)	126	minimi	260.00	-398.5619	-25.11427	17.09308	1.17807	20.44221	22.508
Asta 97 (12-11)	127	massimi	0.00	-450.91569	35.59589	4.62254	0.92927	-6.14151	71.054
Asta 97 (12-11)	127	massimi	130.00	-456.76569	35.59589	4.62254	0.92927	-0.63446	24.78
Asta 97 (12-11)	127	massimi	260.00	-462.61569	35.59589	4.62254	0.92927	5.30962	-18.905
Asta 97 (12-11)	127	minimi	0.00	-474.42981	29.37764	4.23619	0.82472	-6.70899	57.477
Asta 97 (12-11)	127	minimi	130.00	-480.27981	29.37764	4.23619	0.82472	-0.69968	19.286
Asta 97 (12-11)	127	minimi	260.00	-486.12981	29.37764	4.23619	0.82472	4.87259	-21.495
Asta 98 (17-16)	128	massimi	0.00	-579.47514	-15.44853	15.69604	1.86923	-20.81221	-19.098
Asta 98 (17-16)	128	massimi	130.00	-585.32514	-15.44853	15.69604	1.86923	-1.96079	0.985
Asta 98 (17-16)	128	massimi	260.00	-591.17514	-15.44853	15.69604	1.86923	18.26614	24.911
Asta 98 (17-16)	128	minimi	0.00	-613.57188	-20.28148	14.50109	1.74818	-22.54356	-27.821
Asta 98 (17-16)	128	minimi	130.00	-619.42188	-20.28148	14.50109	1.74818	-2.13871	-1.455
Asta 98 (17-16)	128	minimi	260.00	-625.27188	-20.28148	14.50109	1.74818	16.89062	21.068
Asta 99 (22-21)	129	massimi	0.00	-180.36273	-10.09756	21.58971	0.52593	-31.34102	-15.742
Asta 99 (22-21)	129	massimi	130.00	-183.28773	-10.09756	21.58971	0.52593	-4.92715	-2.616
Asta 99 (22-21)	129	massimi	260.00	-186.21273	-10.09756	21.58971	0.52593	22.80782	11.252
Asta 99 (22-21)	129	minimi	0.00	-189.89542	-10.89231	20.31836	0.49382	-33.32544	-17.068
Asta 99 (22-21)	129	minimi	130.00	-192.82042	-10.89231	20.31836	0.49382	-5.25881	-2.908
Asta 99 (22-21)	129	minimi	260.00	-195.74542	-10.89231	20.31836	0.49382	21.48673	10.511
Asta 100 (27-26)	130	massimi	0.00	-461.97036	32.20024	-0.34081	0.53919	0.35058	67.774
Asta 100 (27-26)	130	massimi	130.00	-467.82036	32.20024	-0.34081	0.53919	-0.12152	25.914
Asta 100 (27-26)	130	massimi	260.00	-473.67036	32.20024	-0.34081	0.53919	-0.56458	-13.848
Asta 100 (27-26)	130	minimi	0.00	-486.60411	26.29111	-0.36931	0.50337	0.32153	54.509
Asta 100 (27-26)	130	minimi	130.00	-492.45411	26.29111	-0.36931	0.50337	-0.12951	20.331
Asta 100 (27-26)	130	minimi	260.00	-498.3041	26.29111	-0.36931	0.50337	-0.60961	-15.946
Asta 101 (32-31)	131	massimi	0.00	-653.17422	-6.01282	5.94758	1.20551	-7.8652	3.482
Asta 101 (32-31)	131	massimi	130.00	-659.02422	-6.01282	5.94758	1.20551	-0.71833	11.299
Asta 101 (32-31)	131	massimi	260.00	-664.87422	-6.01282	5.94758	1.20551	6.94393	22.701
Asta 101 (32-31)	131	minimi	0.00	-696.43745	-9.44943	5.4976	1.13033	-8.51977	-1.867
Asta 101 (32-31)	131	minimi	130.00	-702.28745	-9.44943	5.4976	1.13033	-0.78792	10.417
Asta 101 (32-31)	131	minimi	260.00	-708.13745	-9.44943	5.4976	1.13033	6.42855	19.115
Asta 102 (37-36)	132	massimi	0.00	-232.6444	-12.69004	21.47838	0.3096	-29.36979	-21.462
Asta 102 (37-36)	132	massimi	130.00	-235.5694	-12.69004	21.47838	0.3096	-3.08757	-4.965
Asta 102 (37-36)	132	massimi	260.00	-238.4944	-12.69004	21.47838	0.3096	24.63614	12.73

Asta 102 (37-36)	132	minimi	0.00	-246.63214	-14.3344	20.21709	0.28961	-31.20763	-24.539
Asta 102 (37-36)	132	minimi	130.00	-249.55714	-14.3344	20.21709	0.28961	-3.28574	-5.904
Asta 102 (37-36)	132	minimi	260.00	-252.48214	-14.3344	20.21709	0.28961	23.19465	11.532
Asta 103 (42-41)	133	massimi	0.00	-461.7314	32.82582	-0.6139	-0.45224	0.72895	69.438
Asta 103 (42-41)	133	massimi	130.00	-467.5814	32.82582	-0.6139	-0.45224	-0.14683	26.765
Asta 103 (42-41)	133	massimi	260.00	-473.4314	32.82582	-0.6139	-0.45224	-0.94489	-13.83
Asta 103 (42-41)	133	minimi	0.00	-486.33906	26.89557	-0.68359	-0.47554	0.65124	56.099
Asta 103 (42-41)	133	minimi	130.00	-492.18906	26.89557	-0.68359	-0.47554	-0.15972	21.134
Asta 103 (42-41)	133	minimi	260.00	-498.03906	26.89557	-0.68359	-0.47554	-1.04839	-15.909
Asta 104 (47-46)	134	massimi	0.00	-663.91439	-0.22403	2.12384	0.62807	-3.11772	13.512
Asta 104 (47-46)	134	massimi	130.00	-669.76439	-0.22403	2.12384	0.62807	-0.39719	13.803
Asta 104 (47-46)	134	massimi	260.00	-675.61439	-0.22403	2.12384	0.62807	2.33502	17.428
Asta 104 (47-46)	134	minimi	0.00	-708.37132	-3.31576	2.09271	0.60013	-3.18696	8.807
Asta 104 (47-46)	134	minimi	130.00	-714.22132	-3.31576	2.09271	0.60013	-0.42597	13.118
Asta 104 (47-46)	134	minimi	260.00	-720.07132	-3.31576	2.09271	0.60013	2.32334	14.094
Asta 105 (52-51)	135	massimi	0.00	-266.02687	-14.77625	9.58279	-0.14663	-14.57486	-21.008
Asta 105 (52-51)	135	massimi	130.00	-268.95188	-14.77625	9.58279	-0.14663	-2.55035	-1.799
Asta 105 (52-51)	135	massimi	260.00	-271.87688	-14.77625	9.58279	-0.14663	9.7816	19.028
Asta 105 (52-51)	135	minimi	0.00	-282.01592	-16.64148	9.24962	-0.14726	-15.13366	-24.24
Asta 105 (52-51)	135	minimi	130.00	-284.94092	-16.64148	9.24962	-0.14726	-2.67603	-2.606
Asta 105 (52-51)	135	minimi	260.00	-287.86592	-16.64148	9.24962	-0.14726	9.47416	17.41
Asta 106 (57-56)	136	massimi	0.00	-67.39391	-7.53432	0.07193	-0.21625	-1.23137	-2.38
Asta 106 (57-56)	136	massimi	130.00	-69.42516	-7.53432	0.07193	-0.21625	-1.13832	7.812
Asta 106 (57-56)	136	massimi	260.00	-71.45641	-7.53432	0.07193	-0.21625	-1.04528	18.139
Asta 106 (57-56)	136	minimi	0.00	-70.54454	-7.94399	0.07157	-0.22626	-1.28372	-2.515
Asta 106 (57-56)	136	minimi	130.00	-72.57579	-7.94399	0.07157	-0.22626	-1.19021	7.415
Asta 106 (57-56)	136	minimi	260.00	-74.60704	-7.94399	0.07157	-0.22626	-1.0967	17.21
Asta 107 (62-61)	137	massimi	0.00	-28.01771	-3.75508	0.28766	-0.0676	-0.83065	-4.031
Asta 107 (62-61)	137	massimi	130.00	-30.04896	-3.75508	0.28766	-0.0676	-0.47329	0.917
Asta 107 (62-61)	137	massimi	260.00	-32.08021	-3.75508	0.28766	-0.0676	-0.11566	6.052
Asta 107 (62-61)	137	minimi	0.00	-29.24888	-3.95001	0.27489	-0.07092	-0.86357	-4.218
Asta 107 (62-61)	137	minimi	130.00	-31.28013	-3.95001	0.27489	-0.07092	-0.48962	0.85
Asta 107 (62-61)	137	minimi	260.00	-33.31138	-3.95001	0.27489	-0.07092	-0.11593	5.732
Asta 108 (72-71)	138	massimi	0.00	-455.99271	38.14716	-2.68253	-0.8664	4.12064	77.508
Asta 108 (72-71)	138	massimi	130.00	-461.84271	38.14716	-2.68253	-0.8664	0.22591	27.917

Asta 108 (72-71)	138	massimi	260.00	-467.69271	38.14716	-2.68253	-0.8664	-3.3025	-19.194
Asta 108 (72-71)	138	minimi	0.00	-479.86387	31.92113	-2.99595	-0.97171	3.67208	63.801
Asta 108 (72-71)	138	minimi	130.00	-485.71387	31.92113	-2.99595	-0.97171	0.18479	22.304
Asta 108 (72-71)	138	minimi	260.00	-491.56387	31.92113	-2.99595	-0.97171	-3.66882	-21.675
Asta 109 (77-76)	139	massimi	0.00	-648.2348	3.18487	-3.04516	0.14128	4.92636	15.90
Asta 109 (77-76)	139	massimi	130.00	-654.0848	3.18487	-3.04516	0.14128	0.44055	11.76
Asta 109 (77-76)	139	massimi	260.00	-659.9348	3.18487	-3.04516	0.14128	-3.56288	10.609
Asta 109 (77-76)	139	minimi	0.00	-691.23846	0.28737	-3.45062	0.13721	4.35453	11.356
Asta 109 (77-76)	139	minimi	130.00	-697.08846	0.28737	-3.45062	0.13721	0.39583	10.982
Asta 109 (77-76)	139	minimi	260.00	-702.93846	0.28737	-3.45062	0.13721	-4.04526	7.62
Asta 110 (82-81)	140	massimi	0.00	-264.08354	-21.9809	-2.46575	-0.04106	4.57498	-26.784
Asta 110 (82-81)	140	massimi	130.00	-267.00854	-21.9809	-2.46575	-0.04106	0.96532	1.791
Asta 110 (82-81)	140	massimi	260.00	-269.93354	-21.9809	-2.46575	-0.04106	-2.32325	32.815
Asta 110 (82-81)	140	minimi	0.00	-279.47716	-24.3112	-2.77666	-0.04175	4.08769	-30.394
Asta 110 (82-81)	140	minimi	130.00	-282.40216	-24.3112	-2.77666	-0.04175	0.88222	1.21
Asta 110 (82-81)	140	minimi	260.00	-285.32717	-24.3112	-2.77666	-0.04175	-2.64434	30.366
Asta 111 (87-86)	141	massimi	0.00	-65.36331	-7.08138	1.09706	-0.18749	1.30112	-1.996
Asta 111 (87-86)	141	massimi	130.00	-67.39456	-7.08138	1.09706	-0.18749	2.7273	7.594
Asta 111 (87-86)	141	massimi	260.00	-69.42581	-7.08138	1.09706	-0.18749	4.15348	17.298
Asta 111 (87-86)	141	minimi	0.00	-68.41572	-7.46489	1.04423	-0.19686	1.24339	-2.111
Asta 111 (87-86)	141	minimi	130.00	-70.44697	-7.46489	1.04423	-0.19686	2.6009	7.21
Asta 111 (87-86)	141	minimi	260.00	-72.47822	-7.46489	1.04423	-0.19686	3.9584	16.416
Asta 112 (92-91)	142	massimi	0.00	-26.81552	-3.76564	0.14815	-0.06549	0.92256	-4.011
Asta 112 (92-91)	142	massimi	130.00	-28.84677	-3.76564	0.14815	-0.06549	1.11515	0.952
Asta 112 (92-91)	142	massimi	260.00	-30.87802	-3.76564	0.14815	-0.06549	1.30774	6.098
Asta 112 (92-91)	142	minimi	0.00	-27.94144	-3.9586	0.1401	-0.06819	0.88543	-4.194
Asta 112 (92-91)	142	minimi	130.00	-29.97269	-3.9586	0.1401	-0.06819	1.06757	0.884
Asta 112 (92-91)	142	minimi	260.00	-32.00394	-3.9586	0.1401	-0.06819	1.2497	5.78
Asta 113 (102-101)	143	massimi	0.00	-401.0089	61.74313	-6.82316	1.35349	8.52217	115.737
Asta 113 (102-101)	143	massimi	130.00	-406.8589	61.74313	-6.82316	1.35349	-0.50788	35.471
Asta 113 (102-101)	143	massimi	260.00	-412.7089	61.74313	-6.82316	1.35349	-9.37799	-41.753
Asta 113 (102-101)	143	minimi	0.00	-419.01932	57.32744	-7.09138	1.32878	8.36223	107.299
Asta 113 (102-101)	143	minimi	130.00	-424.86932	57.32744	-7.09138	1.32878	-0.69663	32.773

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Asta 113 (102-101)	143	minimi	260.00	-430.71932	57.32744	-7.09138	1.32878	-9.91543	-44.795
Asta 114 (107-106)	144	massimi	0.00	-547.08996	-13.04824	-9.8355	-0.743	14.39156	-14.802
Asta 114 (107-106)	144	massimi	130.00	-552.93996	-13.04824	-9.8355	-0.743	0.99807	3.158
Asta 114 (107-106)	144	massimi	260.00	-558.78996	-13.04824	-9.8355	-0.743	-11.78808	21.117
Asta 114 (107-106)	144	minimi	0.00	-581.25336	-13.8149	-10.34913	-0.82203	13.78422	-14.808
Asta 114 (107-106)	144	minimi	130.00	-587.10336	-13.8149	-10.34913	-0.82203	0.9377	2.154
Asta 114 (107-106)	144	minimi	260.00	-592.95336	-13.8149	-10.34913	-0.82203	-12.51617	19.117
Asta 115 (112-111)	145	massimi	0.00	-150.29785	-17.5097	-21.89024	-0.92534	35.14595	-26.932
Asta 115 (112-111)	145	massimi	130.00	-153.22285	-17.5097	-21.89024	-0.92534	5.01778	-4.169
Asta 115 (112-111)	145	massimi	260.00	-156.14785	-17.5097	-21.89024	-0.92534	-23.70464	20.073
Asta 115 (112-111)	145	minimi	0.00	-159.18015	-19.28125	-23.17552	-1.00231	33.20998	-30.058
Asta 115 (112-111)	145	minimi	130.00	-162.10515	-19.28125	-23.17552	-1.00231	4.75267	-4.992
Asta 115 (112-111)	145	minimi	260.00	-165.03015	-19.28125	-23.17552	-1.00231	-25.1104	18.593
Asta 116 (117-116)	146	massimi	0.00	-223.3271	32.32772	13.4712	-0.02862	-20.66162	46.49
Asta 116 (117-116)	146	massimi	130.00	-226.25211	32.32772	13.4712	-0.02862	-4.49329	4.464
Asta 116 (117-116)	146	massimi	260.00	-229.17711	32.32772	13.4712	-0.02862	12.39004	-35.013
Asta 116 (117-116)	146	minimi	0.00	-238.09551	30.04793	12.43718	-0.0319	-22.63508	43.112
Asta 116 (117-116)	146	minimi	130.00	-241.02051	30.04793	12.43718	-0.0319	-5.12252	4.05
Asta 116 (117-116)	146	minimi	260.00	-243.94551	30.04793	12.43718	-0.0319	11.67504	-37.562
Asta 117 (122-121)	147	massimi	0.00	-202.69057	-27.52251	7.77567	-1.46858	-10.71948	-39.068
Asta 117 (122-121)	147	massimi	130.00	-205.61557	-27.52251	7.77567	-1.46858	-1.54536	-3.289
Asta 117 (122-121)	147	massimi	260.00	-208.54057	-27.52251	7.77567	-1.46858	8.3251	34.899
Asta 117 (122-121)	147	minimi	0.00	-216.22468	-29.66919	7.05702	-1.57878	-11.89166	-42.241
Asta 117	147	minimi	130.00	-219.14968	-29.66919	7.05702	-1.57878	-1.78328	-3.671

(122-121)									
Asta 117 (122-121)	147	minimi	260.00	-222.07468	-29.66919	7.05702	-1.57878	7.62876	32.49
Asta 118 (127-126)	148	massimi	0.00	-214.52155	13.23099	-10.22688	-0.81594	18.68859	19.179
Asta 118 (127-126)	148	massimi	130.00	-217.44655	13.23099	-10.22688	-0.81594	4.25589	1.979
Asta 118 (127-126)	148	massimi	260.00	-220.37156	13.23099	-10.22688	-0.81594	-9.63674	-14.563
Asta 118 (127-126)	148	minimi	0.00	-228.22553	12.68481	-11.10208	-0.87458	16.95314	18.417
Asta 118 (127-126)	148	minimi	130.00	-231.15053	12.68481	-11.10208	-0.87458	3.6582	1.927
Asta 118 (127-126)	148	minimi	260.00	-234.07553	12.68481	-11.10208	-0.87458	-10.17682	-15.221
Asta 119 (132-131)	149	massimi	0.00	-146.96755	-8.60364	-10.30685	0.30349	17.99556	-14.157
Asta 119 (132-131)	149	massimi	130.00	-149.89255	-8.60364	-10.30685	0.30349	3.29244	-2.972
Asta 119 (132-131)	149	massimi	260.00	-152.81755	-8.60364	-10.30685	0.30349	-10.43799	8.621
Asta 119 (132-131)	149	minimi	0.00	-156.0561	-9.02053	-11.31009	0.28101	16.35982	-14.832
Asta 119 (132-131)	149	minimi	130.00	-158.9811	-9.02053	-11.31009	0.28101	2.96091	-3.105
Asta 119 (132-131)	149	minimi	260.00	-161.9061	-9.02053	-11.31009	0.28101	-11.41068	8.213
Asta 120 (137-136)	150	massimi	0.00	-205.57094	1.37716	-2.51524	-1.2314	3.86628	1.469
Asta 120 (137-136)	150	massimi	130.00	-208.49594	1.37716	-2.51524	-1.2314	0.27094	-0.321
Asta 120 (137-136)	150	massimi	260.00	-211.42094	1.37716	-2.51524	-1.2314	-3.03341	-2.067
Asta 120 (137-136)	150	minimi	0.00	-219.85831	1.34101	-2.76564	-1.32468	3.50622	1.42
Asta 120 (137-136)	150	minimi	130.00	-222.78331	1.34101	-2.76564	-1.32468	0.23641	-0.324
Asta 120 (137-136)	150	minimi	260.00	-225.70831	1.34101	-2.76564	-1.32468	-3.32439	-2.112
Asta 121 (142-141)	151	massimi	0.00	-201.09576	-12.51967	-39.68784	-1.69618	52.14382	-20.194
Asta 121 (142-141)	151	massimi	130.00	-204.02076	-12.51967	-39.68784	-1.69618	-2.10278	-3.918
Asta 121 (142-141)	151	massimi	260.00	-206.94577	-12.51967	-39.68784	-1.69618	-53.69697	13.211
Asta 121 (142-141)	151	minimi	0.00	-210.89115	-13.4117	-41.76573	-1.8176	49.49142	-21.659

Asta 121 (142-141)	151	minimi	130.00	-213.81615	-13.4117	-41.76573	-1.8176	-2.15163	-4.224
Asta 121 (142-141)	151	minimi	260.00	-216.74115	-13.4117	-41.76573	-1.8176	-56.44708	12.358
Asta 122 (147-146)	152	massimi	0.00	-44.99051	-0.84024	-8.70428	-0.33935	14.10076	-2.844
Asta 122 (147-146)	152	massimi	130.00	-47.02176	-0.84024	-8.70428	-0.33935	2.09701	-1.752
Asta 122 (147-146)	152	massimi	260.00	-49.05301	-0.84024	-8.70428	-0.33935	-9.29989	-0.655
Asta 122 (147-146)	152	minimi	0.00	-45.58188	-0.89931	-9.23366	-0.36732	13.33125	-2.993
Asta 122 (147-146)	152	minimi	130.00	-47.61313	-0.89931	-9.23366	-0.36732	2.01568	-1.824
Asta 122 (147-146)	152	minimi	260.00	-49.64438	-0.89931	-9.23366	-0.36732	-9.90674	-0.659
Asta 123 (152-151)	153	massimi	0.00	-143.08612	-13.30537	-3.04829	1.02803	5.67103	-19.029
Asta 123 (152-151)	153	massimi	130.00	-146.01112	-13.30537	-3.04829	1.02803	1.4833	-1.732
Asta 123 (152-151)	153	massimi	260.00	-148.93612	-13.30537	-3.04829	1.02803	-2.57553	16.651
Asta 123 (152-151)	153	minimi	0.00	-152.20223	-14.24815	-3.22133	0.97354	5.35002	-20.394
Asta 123 (152-151)	153	minimi	130.00	-155.12723	-14.24815	-3.22133	0.97354	1.38725	-1.871
Asta 123 (152-151)	153	minimi	260.00	-158.05223	-14.24815	-3.22133	0.97354	-2.70444	15.565
Asta 124 (157-156)	154	massimi	0.00	-155.69984	-12.58409	-3.11959	0.11066	5.50369	-14.798
Asta 124 (157-156)	154	massimi	130.00	-157.73109	-12.58409	-3.11959	0.11066	1.18606	1.617
Asta 124 (157-156)	154	massimi	260.00	-159.76234	-12.58409	-3.11959	0.11066	-2.9443	18.763
Asta 124 (157-156)	154	minimi	0.00	-163.99339	-13.18887	-3.32126	0.11039	5.16664	-15.528
Asta 124 (157-156)	154	minimi	130.00	-166.02464	-13.18887	-3.32126	0.11039	1.11117	1.562
Asta 124 (157-156)	154	minimi	260.00	-168.05589	-13.18887	-3.32126	0.11039	-3.13158	17.921
Asta 125 (222-221)	155	massimi	0.00	-115.80909	-1.61775	0.7437	0.01105	-1.48721	-2.514
Asta 125 (222-221)	155	massimi	130.00	-118.73409	-1.61775	0.7437	0.01105	-0.57749	-0.411
Asta 125 (222-221)	155	massimi	260.00	-121.65909	-1.61775	0.7437	0.01105	0.36773	1.899
Asta 125 (222-221)	155	minimi	0.00	-127.06509	-1.81484	0.69979	0.00279	-1.56589	-2.82

221)									
Asta 125 (222- 221)	155	minimi	130.00	-129.99009	-1.81484	0.69979	0.00279	-0.59908	-0.46
Asta 125 (222- 221)	155	minimi	260.00	-132.91509	-1.81484	0.69979	0.00279	0.33223	1.693
Asta 126 (227- 226)	156	massimi	0.00	-191.05728	-1.7038	0.49976	-0.06767	-1.04567	-2.942
Asta 126 (227- 226)	156	massimi	130.00	-193.98228	-1.7038	0.49976	-0.06767	-0.4551	-0.727
Asta 126 (227- 226)	156	massimi	260.00	-196.90728	-1.7038	0.49976	-0.06767	0.15123	1.831
Asta 126 (227- 226)	156	minimi	0.00	-212.95046	-2.0794	0.45429	-0.08046	-1.14814	-3.576
Asta 126 (227- 226)	156	minimi	130.00	-215.87546	-2.0794	0.45429	-0.08046	-0.49845	-0.872
Asta 126 (227- 226)	156	minimi	260.00	-218.80046	-2.0794	0.45429	-0.08046	0.13547	1.488
Asta 127 (232- 231)	157	massimi	0.00	-195.09777	-2.66541	0.09821	0.00345	-0.24656	-4.61
Asta 127 (232- 231)	157	massimi	130.00	-198.02277	-2.66541	0.09821	0.00345	-0.12911	-1.145
Asta 127 (232- 231)	157	massimi	260.00	-200.94777	-2.66541	0.09821	0.00345	-0.01166	2.668
Asta 127 (232- 231)	157	minimi	0.00	-217.39623	-3.07372	0.09034	-0.0009	-0.27019	-5.324
Asta 127 (232- 231)	157	minimi	130.00	-220.32123	-3.07372	0.09034	-0.0009	-0.14252	-1.328
Asta 127 (232- 231)	157	minimi	260.00	-223.24623	-3.07372	0.09034	-0.0009	-0.01484	2.32
Asta 128 (237- 236)	158	massimi	0.00	-195.50028	-2.25838	-0.08665	0.11857	0.0757	-4.038
Asta 128 (237- 236)	158	massimi	130.00	-198.42528	-2.25838	-0.08665	0.11857	-0.04331	-1.102
Asta 128 (237- 236)	158	massimi	260.00	-201.35029	-2.25838	-0.08665	0.11857	-0.15595	2.146
Asta 128 (237- 236)	158	minimi	0.00	-217.85613	-2.63678	-0.0946	0.11487	0.06934	-4.71
Asta 128 (237- 236)	158	minimi	130.00	-220.78113	-2.63678	-0.0946	0.11487	-0.04728	-1.282
Asta 128 (237- 236)	158	minimi	260.00	-223.70613	-2.63678	-0.0946	0.11487	-0.17027	1.834
Asta 129 (242- 241)	159	massimi	0.00	-194.6019	0.51486	-0.31503	0.19523	0.63869	0.227
Asta 129 (242- 241)	159	massimi	130.00	-197.5269	0.51486	-0.31503	0.19523	0.18219	-0.442
Asta 129 (242- 241)	159	massimi	260.00	-200.4519	0.51486	-0.31503	0.19523	-0.24528	-1.005
Asta 129	159	minimi	0.00	-216.82112	0.33185	-0.35115	0.18297	0.5738	-0.143

(242-241)									
Asta 129 (242-241)	159	minimi	130.00	-219.74612	0.33185	-0.35115	0.18297	0.16426	-0.574
Asta 129 (242-241)	159	minimi	260.00	-222.67112	0.33185	-0.35115	0.18297	-0.27431	-1.111
Asta 130 (68-53)	160	massimi	0.00	12.56968	4.30367	-6.94025	4.98572	18.98469	6.309
Asta 130 (68-53)	160	massimi	116.50	12.56968	4.30367	-21.57881	4.98572	2.06195	1.295
Asta 130 (68-53)	160	massimi	233.00	12.56968	4.30367	-36.21738	4.98572	-31.60433	-3.516
Asta 130 (68-53)	160	minimi	0.00	12.07065	4.07028	-7.40582	4.67684	18.67431	5.967
Asta 130 (68-53)	160	minimi	116.50	12.07065	4.07028	-22.04438	4.67684	1.82995	1.225
Asta 130 (68-53)	160	minimi	233.00	12.07065	4.07028	-36.68294	4.67684	-32.37871	-3.718
Asta 131 (63-58)	161	massimi	0.00	-3.43755	0.20505	22.46677	0.40616	-11.09508	0.615
Asta 131 (63-58)	161	massimi	204.50	-3.43755	0.20505	-2.52828	0.00448	8.41981	0.195
Asta 131 (63-58)	161	massimi	409.00	-3.43755	0.20505	-25.46131	-0.1821	-20.74467	-0.211
Asta 131 (63-58)	161	minimi	0.00	-3.61647	0.19465	21.41855	0.36916	-11.64984	0.585
Asta 131 (63-58)	161	minimi	204.50	-3.61647	0.19465	-2.65224	0.00363	8.04745	0.187
Asta 131 (63-58)	161	minimi	409.00	-3.61647	0.19465	-26.65212	-0.2023	-21.73462	-0.224
Asta 132 (58-68)	162	massimi	0.00	-9.89592	0.88419	36.77026	0.62779	-37.46461	1.91
Asta 132 (58-68)	162	massimi	205.50	-9.89592	0.88419	11.54788	0.23827	10.12818	0.093
Asta 132 (58-68)	162	massimi	411.00	-9.89592	0.88419	-12.29194	0.0177	8.68718	-1.656
Asta 132 (58-68)	162	minimi	0.00	-10.43124	0.84672	35.01343	0.58032	-39.36989	1.824
Asta 132 (58-68)	162	minimi	205.50	-10.43124	0.84672	10.96714	0.22742	9.64563	0.084
Asta 132 (58-68)	162	minimi	411.00	-10.43124	0.84672	-12.80549	0.00679	8.14959	-1.724
Asta 133 (88-58)	163	massimi	0.00	0.6072	-1.07595	2.87033	-0.17572	-0.06726	-1.753
Asta 133 (88-58)	163	massimi	166.00	0.6072	-1.07595	-0.62016	-0.17572	1.76967	0.033
Asta 133 (88-58)	163	massimi	332.00	0.6072	-1.07595	-3.98166	-0.17572	-2.12834	1.908
Asta 133 (88-58)	163	minimi	0.00	0.58049	-1.12921	2.74134	-0.18516	-0.0694	-1.841
Asta 133 (88-58)	163	minimi	166.00	0.58049	-1.12921	-0.65717	-0.18516	1.69118	0.033
Asta 133 (88-58)	163	minimi	332.00	0.58049	-1.12921	-4.18467	-0.18516	-2.24905	1.819
Asta 134 (93-63)	164	massimi	0.00	-0.08024	-0.31753	3.21039	-0.00434	-0.72008	-0.537
Asta 134 (93-63)	164	massimi	166.00	-0.08024	-0.31753	-0.30016	-0.00434	1.64371	-0.01
Asta 134 (93-63)	164	massimi	332.00	-0.08024	-0.31753	-3.66166	-0.00434	-1.71661	0.544
Asta 134 (93-63)	164	minimi	0.00	-0.08261	-0.33355	3.06134	-0.00552	-0.75772	-0.564
Asta 134 (93-63)	164	minimi	166.00	-0.08261	-0.33355	-0.31711	-0.00552	1.5717	-0.01
Asta 134 (93-63)	164	minimi	332.00	-0.08261	-0.33355	-3.84461	-0.00552	-1.81052	0.517
Asta 135 (83-68)	165	massimi	0.00	11.68549	-5.82564	25.21099	-3.47275	-17.89436	-6.417

Asta 135 (83-68)	165	massimi	120.50	11.68549	-5.82564	15.30533	-3.47275	6.51672	0.649
Asta 135 (83-68)	165	massimi	241.00	11.68549	-5.82564	5.39967	-3.47275	18.99149	8.033
Asta 135 (83-68)	165	minimi	0.00	11.22393	-6.12758	25.16301	-3.70146	-18.0782	-6.734
Asta 135 (83-68)	165	minimi	120.50	11.22393	-6.12758	15.25735	-3.70146	6.27506	0.603
Asta 135 (83-68)	165	minimi	241.00	11.22393	-6.12758	5.35168	-3.70146	18.692	7.623
Asta 136 (98-83)	166	massimi	0.00	15.82814	10.72323	-28.42651	6.25886	8.82568	2.17
Asta 136 (98-83)	166	massimi	45.50	15.82814	10.72323	-34.08137	6.25886	-5.55368	-2.585
Asta 136 (98-83)	166	massimi	91.00	15.82814	10.72323	-39.73623	6.25886	-22.50599	-7.227
Asta 136 (98-83)	166	minimi	0.00	15.21791	10.20132	-28.77554	5.87577	8.30686	2.056
Asta 136 (98-83)	166	minimi	45.50	15.21791	10.20132	-34.4304	5.87577	-5.91368	-2.71
Asta 136 (98-83)	166	minimi	91.00	15.21791	10.20132	-40.08526	5.87577	-22.70718	-7.589
Asta 137 (88-93)	167	massimi	0.00	-4.08317	0.23075	27.32535	0.49479	-20.43284	0.312
Asta 137 (88-93)	167	massimi	204.50	-4.08317	0.23075	2.20634	0.09226	8.58805	-0.152
Asta 137 (88-93)	167	massimi	409.00	-4.08317	0.23075	-20.81668	-0.09804	-11.0859	-0.602
Asta 137 (88-93)	167	minimi	0.00	-4.29215	0.22035	26.06318	0.45323	-21.41738	0.299
Asta 137 (88-93)	167	minimi	204.50	-4.29215	0.22035	2.11635	0.08854	8.20796	-0.16
Asta 137 (88-93)	167	minimi	409.00	-4.29215	0.22035	-21.79355	-0.11367	-11.6306	-0.632
Asta 138 (98-88)	168	massimi	0.00	-12.2405	0.72061	14.2932	0.28716	6.94673	1.236
Asta 138 (98-88)	168	massimi	205.50	-12.2405	0.72061	-10.36221	-0.10236	10.25446	-0.236
Asta 138 (98-88)	168	massimi	411.00	-12.2405	0.72061	-33.62129	-0.33383	-35.56592	-1.642
Asta 138 (98-88)	168	minimi	0.00	-12.88625	0.68408	13.68408	0.22668	6.48352	1.17
Asta 138 (98-88)	168	minimi	205.50	-12.88625	0.68408	-10.92917	-0.12622	9.76193	-0.245
Asta 138 (98-88)	168	minimi	411.00	-12.88625	0.68408	-35.28254	-0.33594	-37.37688	-1.726
Asta 139 (113-98)	169	massimi	0.00	15.10753	-2.03918	33.12035	-0.60775	-26.1621	-4.584
Asta 139 (113-98)	169	massimi	191.50	15.10753	-2.03918	9.319	-0.60775	14.05673	-0.679
Asta 139 (113-98)	169	massimi	383.00	15.10753	-2.03918	-14.48234	-0.60775	9.11284	3.405
Asta 139 (113-98)	169	minimi	0.00	14.53382	-2.16302	32.86026	-0.68787	-26.57895	-4.879
Asta 139 (113-98)	169	minimi	191.50	14.53382	-2.16302	9.05891	-0.68787	13.97551	-0.737
Asta 139 (113-98)	169	minimi	383.00	14.53382	-2.16302	-14.74243	-0.68787	8.53355	3.226
Asta 140 (143-113)	170	massimi	0.00	5.43051	2.55626	21.49876	3.21832	-30.41708	2.624
Asta 140 (143-113)	170	massimi	165.00	5.43051	2.55626	15.9258	3.21832	-1.1317	-1.495
Asta 140 (143-113)	170	massimi	330.00	5.43051	2.55626	10.35283	3.21832	20.48936	-5.482
Asta 140 (143-113)	170	minimi	0.00	5.18457	2.41652	20.5352	2.97683	-32.06577	2.493

Asta 140 (143-113)	170	minimi	165.00	5.18457	2.41652	14.96223	2.97683	-1.19051	-1.594
Asta 140 (143-113)	170	minimi	330.00	5.18457	2.41652	9.38927	2.97683	18.95828	-5.812
Asta 141 (3-2)	171	massimi	0.00	-248.13748	25.61687	9.58158	0.34976	-3.22172	5.474
Asta 141 (3-2)	171	massimi	94.00	-252.36748	25.61687	9.58158	0.34976	5.61071	-16.592
Asta 141 (3-2)	171	massimi	188.00	-256.59748	25.61687	9.58158	0.34976	14.6174	-38.657
Asta 141 (3-2)	171	minimi	0.00	-253.22818	23.47399	9.16885	0.23752	-3.39598	4.158
Asta 141 (3-2)	171	minimi	94.00	-257.45818	23.47399	9.16885	0.23752	5.397	-19.922
Asta 141 (3-2)	171	minimi	188.00	-261.68818	23.47399	9.16885	0.23752	14.01572	-44.002
Asta 142 (8-7)	172	massimi	0.00	-259.46856	-26.98628	15.82728	1.35741	-5.87794	-3.036
Asta 142 (8-7)	172	massimi	94.00	-263.69856	-26.98628	15.82728	1.35741	8.6423	24.726
Asta 142 (8-7)	172	massimi	188.00	-267.92856	-26.98628	15.82728	1.35741	23.51994	52.488
Asta 142 (8-7)	172	minimi	0.00	-265.40047	-29.53439	15.01431	1.32072	-6.23534	-4.394
Asta 142 (8-7)	172	minimi	94.00	-269.63047	-29.53439	15.01431	1.32072	8.23552	20.973
Asta 142 (8-7)	172	minimi	188.00	-273.86047	-29.53439	15.01431	1.32072	22.34897	46.341
Asta 143 (13-12)	173	massimi	0.00	-286.36311	34.28667	3.70459	1.13307	-1.09825	-15.909
Asta 143 (13-12)	173	massimi	94.00	-290.59311	34.28667	3.70459	1.13307	2.28156	-45.975
Asta 143 (13-12)	173	massimi	188.00	-294.82311	34.28667	3.70459	1.13307	5.76388	-76.041
Asta 143 (13-12)	173	minimi	0.00	-293.07218	31.98532	3.37273	0.96959	-1.20076	-19.985
Asta 143 (13-12)	173	minimi	94.00	-297.30218	31.98532	3.37273	0.96959	2.07212	-52.214
Asta 143 (13-12)	173	minimi	188.00	-301.53218	31.98532	3.37273	0.96959	5.2425	-84.444
Asta 144 (18-17)	174	massimi	0.00	-323.63664	-18.16575	12.15372	2.46326	-3.61523	22.293
Asta 144 (18-17)	174	massimi	94.00	-327.86664	-18.16575	12.15372	2.46326	7.51061	40.754
Asta 144 (18-17)	174	massimi	188.00	-332.09664	-18.16575	12.15372	2.46326	18.9351	59.216
Asta 144 (18-17)	174	minimi	0.00	-331.67569	-19.63984	11.19935	2.32441	-3.91389	19.56
Asta 144 (18-17)	174	minimi	94.00	-335.90569	-19.63984	11.19935	2.32441	6.91216	36.636
Asta 144 (18-17)	174	minimi	188.00	-340.13569	-19.63984	11.19935	2.32441	17.43955	53.712
Asta 145 (23-22)	175	massimi	0.00	-57.06538	-12.63627	12.39174	0.47866	-2.89706	-5.672
Asta 145 (23-22)	175	massimi	94.00	-58.53413	-12.63627	12.39174	0.47866	8.56573	6.558
Asta 145 (23-22)	175	massimi	188.00	-60.00288	-12.63627	12.39174	0.47866	20.21396	19.069
Asta 145 (23-22)	175	minimi	0.00	-59.7392	-13.30969	11.63316	0.44628	-3.08251	-5.954
Asta 145 (23-22)	175	minimi	94.00	-61.20795	-13.30969	11.63316	0.44628	8.03811	6.206
Asta 145 (23-22)	175	minimi	188.00	-62.6767	-13.30969	11.63316	0.44628	18.97328	18.085
Asta 146 (28-27)	176	massimi	0.00	-294.75267	31.59183	-0.77016	0.90805	0.15065	-12.571
Asta 146 (28-27)	176	massimi	94.00	-298.98267	31.59183	-0.77016	0.90805	-0.58667	-40.284

Asta 146 (28-27)	176	massimi	188.00	-303.21267	31.59183	-0.77016	0.90805	-1.31061	-67.997
Asta 146 (28-27)	176	minimi	0.00	-302.31032	29.48217	-0.82806	0.85043	0.13728	-16.446
Asta 146 (28-27)	176	minimi	94.00	-306.54032	29.48217	-0.82806	0.85043	-0.62772	-46.143
Asta 146 (28-27)	176	minimi	188.00	-310.77032	29.48217	-0.82806	0.85043	-1.4061	-75.839
Asta 147 (33-32)	177	massimi	0.00	-364.37399	-8.28483	3.55062	1.31341	-1.49991	26.112
Asta 147 (33-32)	177	massimi	94.00	-368.60399	-8.28483	3.55062	1.31341	1.71281	34.438
Asta 147 (33-32)	177	massimi	188.00	-372.83399	-8.28483	3.55062	1.31341	5.0504	42.764
Asta 147 (33-32)	177	minimi	0.00	-373.91805	-8.85757	3.2572	1.21703	-1.62477	23.814
Asta 147 (33-32)	177	minimi	94.00	-378.14805	-8.85757	3.2572	1.21703	1.56186	31.601
Asta 147 (33-32)	177	minimi	188.00	-382.37805	-8.85757	3.2572	1.21703	4.62362	39.389
Asta 148 (38-37)	178	massimi	0.00	-84.126	-17.03478	11.21643	0.34355	-2.799	-7.397
Asta 148 (38-37)	178	massimi	94.00	-85.59475	-17.03478	11.21643	0.34355	7.56811	9.474
Asta 148 (38-37)	178	massimi	188.00	-87.0635	-17.03478	11.21643	0.34355	18.11155	26.616
Asta 148 (38-37)	178	minimi	0.00	-87.54251	-18.23599	10.53941	0.32108	-2.97534	-7.668
Asta 148 (38-37)	178	minimi	94.00	-89.01126	-18.23599	10.53941	0.32108	7.10804	8.616
Asta 148 (38-37)	178	minimi	188.00	-90.48001	-18.23599	10.53941	0.32108	17.01508	24.629
Asta 149 (43-42)	179	massimi	0.00	-294.64308	30.96797	-1.10706	-0.45469	0.26051	-11.604
Asta 149 (43-42)	179	massimi	94.00	-298.87308	30.96797	-1.10706	-0.45469	-0.80571	-38.768
Asta 149 (43-42)	179	massimi	188.00	-303.10308	30.96797	-1.10706	-0.45469	-1.84635	-65.932
Asta 149 (43-42)	179	minimi	0.00	-302.18915	28.89785	-1.20321	-0.47813	0.23493	-15.411
Asta 149 (43-42)	179	minimi	94.00	-306.41915	28.89785	-1.20321	-0.47813	-0.87051	-44.52
Asta 149 (43-42)	179	minimi	188.00	-310.64915	28.89785	-1.20321	-0.47813	-2.00153	-73.63
Asta 150 (48-47)	180	massimi	0.00	-369.18756	-5.01633	0.04167	0.24496	-0.51751	26.835
Asta 150 (48-47)	180	massimi	94.00	-373.41756	-5.01633	0.04167	0.24496	-0.47834	31.91
Asta 150 (48-47)	180	massimi	188.00	-377.64756	-5.01633	0.04167	0.24496	-0.43917	36.985
Asta 150 (48-47)	180	minimi	0.00	-379.32762	-5.39879	-0.05079	0.23301	-0.52432	24.527
Asta 150 (48-47)	180	minimi	94.00	-383.55762	-5.39879	-0.05079	0.23301	-0.57207	29.243
Asta 150 (48-47)	180	minimi	188.00	-387.78762	-5.39879	-0.05079	0.23301	-0.61981	33.958
Asta 151 (53-52)	181	massimi	0.00	-122.10531	-16.08715	16.51589	-1.40239	-13.92237	-7.854
Asta 151 (53-52)	181	massimi	94.00	-123.57406	-16.08715	16.51589	-1.40239	1.29184	8.086
Asta 151 (53-52)	181	massimi	188.00	-125.04281	-16.08715	16.51589	-1.40239	16.81678	24.339
Asta 151 (53-52)	181	minimi	0.00	-126.44327	-17.29045	16.02684	-1.4836	-14.2331	-8.167
Asta 151 (53-52)	181	minimi	94.00	-127.91202	-17.29045	16.02684	-1.4836	1.14286	7.268
Asta 151 (53-52)	181	minimi	188.00	-129.38077	-17.29045	16.02684	-1.4836	16.20809	22.39
Asta 152 (58-57)	182	massimi	0.00	-64.45641	-7.53432	0.07193	-0.21625	-1.36593	-16.544

Asta 152 (58-57)	182	massimi	94.00	-65.92516	-7.53432	0.07193	-0.21625	-1.29865	-9.462
Asta 152 (58-57)	182	massimi	188.00	-67.39391	-7.53432	0.07193	-0.21625	-1.23137	-2.38
Asta 152 (58-57)	182	minimi	0.00	-67.60704	-7.94399	0.07157	-0.22626	-1.41896	-17.45
Asta 152 (58-57)	182	minimi	94.00	-69.07579	-7.94399	0.07157	-0.22626	-1.35134	-9.983
Asta 152 (58-57)	182	minimi	188.00	-70.54454	-7.94399	0.07157	-0.22626	-1.28372	-2.515
Asta 153 (63-62)	183	massimi	0.00	-25.08021	-3.75508	0.28766	-0.0676	-1.34745	-11.091
Asta 153 (63-62)	183	massimi	94.00	-26.54896	-3.75508	0.28766	-0.0676	-1.08905	-7.561
Asta 153 (63-62)	183	massimi	188.00	-28.01771	-3.75508	0.28766	-0.0676	-0.83065	-4.031
Asta 153 (63-62)	183	minimi	0.00	-26.31138	-3.95001	0.27489	-0.07092	-1.40436	-11.644
Asta 153 (63-62)	183	minimi	94.00	-27.78013	-3.95001	0.27489	-0.07092	-1.13396	-7.931
Asta 153 (63-62)	183	minimi	188.00	-29.24888	-3.95001	0.27489	-0.07092	-0.86357	-4.218
Asta 154 (73-72)	184	massimi	0.00	-290.03827	32.28444	-3.26668	-0.55494	0.98208	-11.765
Asta 154 (73-72)	184	massimi	94.00	-294.26827	32.28444	-3.26668	-0.55494	-2.17659	-40.013
Asta 154 (73-72)	184	massimi	188.00	-298.49827	32.28444	-3.26668	-0.55494	-5.24727	-68.262
Asta 154 (73-72)	184	minimi	0.00	-297.10274	30.05138	-3.60879	-0.68255	0.89409	-15.506
Asta 154 (73-72)	184	minimi	94.00	-301.33274	30.05138	-3.60879	-0.68255	-2.41019	-45.854
Asta 154 (73-72)	184	minimi	188.00	-305.56274	30.05138	-3.60879	-0.68255	-5.80245	-76.201
Asta 155 (78-77)	185	massimi	0.00	-359.44266	-1.383	-4.95185	-0.73712	1.04121	29.286
Asta 155 (78-77)	185	massimi	94.00	-363.67266	-1.383	-4.95185	-0.73712	-3.73167	30.832
Asta 155 (78-77)	185	massimi	188.00	-367.90266	-1.383	-4.95185	-0.73712	-8.38641	32.378
Asta 155 (78-77)	185	minimi	0.00	-368.74566	-1.64471	-5.4778	-0.76266	0.92307	26.897
Asta 155 (78-77)	185	minimi	94.00	-372.97566	-1.64471	-5.4778	-0.76266	-4.10793	28.197
Asta 155 (78-77)	185	minimi	188.00	-377.20566	-1.64471	-5.4778	-0.76266	-9.25706	29.497
Asta 156 (83-82)	186	massimi	0.00	-144.50165	-12.92233	0.66054	-0.28865	-0.72996	-5.387
Asta 156 (83-82)	186	massimi	94.00	-145.9704	-12.92233	0.66054	-0.28865	-0.20128	7.546
Asta 156 (83-82)	186	massimi	188.00	-147.43915	-12.92233	0.66054	-0.28865	0.41962	20.713
Asta 156 (83-82)	186	minimi	0.00	-148.58525	-14.00676	0.54653	-0.29554	-0.82218	-5.62
Asta 156 (83-82)	186	minimi	94.00	-150.054	-14.00676	0.54653	-0.29554	-0.21622	6.76
Asta 156 (83-82)	186	minimi	188.00	-151.52275	-14.00676	0.54653	-0.29554	0.29752	18.907
Asta 157 (88-87)	187	massimi	0.00	-62.42581	-7.08138	1.09706	-0.18749	-0.71976	-15.309
Asta 157 (88-87)	187	massimi	94.00	-63.89456	-7.08138	1.09706	-0.18749	0.26988	-8.652
Asta 157 (88-87)	187	massimi	188.00	-65.36331	-7.08138	1.09706	-0.18749	1.30112	-1.996
Asta 157 (88-87)	187	minimi	0.00	-65.47822	-7.46489	1.04423	-0.19686	-0.76136	-16.145
Asta 157 (88-87)	187	minimi	94.00	-66.94697	-7.46489	1.04423	-0.19686	0.26181	-9.128
Asta 157 (88-87)	187	minimi	188.00	-68.41572	-7.46489	1.04423	-0.19686	1.24339	-2.111

Asta 158 (93-92)	188	massimi	0.00	-23.87802	-3.76564	0.14815	-0.06549	0.64404	-11.09
Asta 158 (93-92)	188	massimi	94.00	-25.34677	-3.76564	0.14815	-0.06549	0.7833	-7.551
Asta 158 (93-92)	188	massimi	188.00	-26.81552	-3.76564	0.14815	-0.06549	0.92256	-4.011
Asta 158 (93-92)	188	minimi	0.00	-25.00394	-3.9586	0.1401	-0.06819	0.62204	-11.636
Asta 158 (93-92)	188	minimi	94.00	-26.47269	-3.9586	0.1401	-0.06819	0.75374	-7.915
Asta 158 (93-92)	188	minimi	188.00	-27.94144	-3.9586	0.1401	-0.06819	0.88543	-4.194
Asta 159 (103-102)	189	massimi	0.00	-248.27917	38.74653	-5.40125	0.87218	1.78559	-8.659
Asta 159 (103-102)	189	massimi	94.00	-252.50917	38.74653	-5.40125	0.87218	-3.42756	-42.131
Asta 159 (103-102)	189	massimi	188.00	-256.73917	38.74653	-5.40125	0.87218	-8.50474	-75.603
Asta 159 (103-102)	189	minimi	0.00	-256.23293	35.60867	-5.55986	0.83675	1.64961	-9.074
Asta 159 (103-102)	189	minimi	94.00	-260.46293	35.60867	-5.55986	0.83675	-3.44067	-45.496
Asta 159 (103-102)	189	minimi	188.00	-264.69293	35.60867	-5.55986	0.83675	-8.66694	-81.917
Asta 160 (108-107)	190	massimi	0.00	-318.51861	-3.74324	-9.91552	-0.92421	2.04931	20.24
Asta 160 (108-107)	190	massimi	94.00	-322.74861	-3.74324	-9.91552	-0.92421	-7.37751	24.501
Asta 160 (108-107)	190	massimi	188.00	-326.97861	-3.74324	-9.91552	-0.92421	-16.6981	28.761
Asta 160 (108-107)	190	minimi	0.00	-329.34523	-4.53233	-10.38176	-0.96487	1.94308	20.135
Asta 160 (108-107)	190	minimi	94.00	-333.57523	-4.53233	-10.38176	-0.96487	-7.70954	23.654
Asta 160 (108-107)	190	minimi	188.00	-337.80523	-4.53233	-10.38176	-0.96487	-17.46839	27.172
Asta 161 (113-112)	191	massimi	0.00	-83.04779	-15.0331	-25.08485	-0.98167	23.7792	-6.568
Asta 161 (113-112)	191	massimi	94.00	-84.51654	-15.0331	-25.08485	-0.98167	-0.83722	8.392
Asta 161 (113-112)	191	massimi	188.00	-85.98529	-15.0331	-25.08485	-0.98167	-24.41698	23.645
Asta 161 (113-112)	191	minimi	0.00	-84.54888	-16.22709	-26.29561	-1.03165	22.74254	-6.861
Asta 161 (113-112)	191	minimi	94.00	-86.01763	-16.22709	-26.29561	-1.03165	-0.93867	7.563
Asta 161 (113-112)	191	minimi	188.00	-87.48638	-16.22709	-26.29561	-1.03165	-25.65654	21.695
Asta 162 (118-117)	192	massimi	0.00	-78.80302	13.0211	14.97331	0.16814	-7.51587	4.152
Asta 162 (118-117)	192	massimi	94.00	-80.27177	13.0211	14.97331	0.16814	6.31109	-7.488

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Asta 162 (118- 117)	192	massimi	188.00	-81.74052	13.0211	14.97331	0.16814	20.386	-18.934
Asta 162 (118- 117)	192	minimi	0.00	-79.15882	12.17734	14.14821	0.15901	-7.76383	3.959
Asta 162 (118- 117)	192	minimi	94.00	-80.62757	12.17734	14.14821	0.15901	5.78344	-8.088
Asta 162 (118- 117)	192	minimi	188.00	-82.09632	12.17734	14.14821	0.15901	19.08276	-20.328
Asta 163 (123- 122)	193	massimi	0.00	-58.80487	-14.08302	4.57079	-1.00908	-1.7032	-4.324
Asta 163 (123- 122)	193	massimi	94.00	-60.27362	-14.08302	4.57079	-1.00908	2.49356	9.631
Asta 163 (123- 122)	193	massimi	188.00	-61.74237	-14.08302	4.57079	-1.00908	6.79011	23.803
Asta 163 (123- 122)	193	minimi	0.00	-59.1899	-15.07628	4.21247	-1.08008	-1.80298	-4.54
Asta 163 (123- 122)	193	minimi	94.00	-60.65865	-15.07628	4.21247	-1.08008	2.25652	8.914
Asta 163 (123- 122)	193	minimi	188.00	-62.1274	-15.07628	4.21247	-1.08008	6.21624	22.152
Asta 164 (128- 127)	194	massimi	0.00	-72.05775	6.76773	-13.26009	-0.60509	7.97753	1.972
Asta 164 (128- 127)	194	massimi	94.00	-73.52649	6.76773	-13.26009	-0.60509	-4.72457	-4.224
Asta 164 (128- 127)	194	massimi	188.00	-74.99524	6.76773	-13.26009	-0.60509	-17.18905	-10.352
Asta 164 (128- 127)	194	minimi	0.00	-74.9519	6.51966	-14.02526	-0.64655	7.73991	1.905
Asta 164 (128- 127)	194	minimi	94.00	-76.42065	6.51966	-14.02526	-0.64655	-5.20621	-4.39
Asta 164 (128- 127)	194	minimi	188.00	-77.8894	6.51966	-14.02526	-0.64655	-18.38996	-10.751
Asta 165 (133- 132)	195	massimi	0.00	-78.71172	-2.35387	-5.56651	-0.05143	1.52798	0.372
Asta 165 (133- 132)	195	massimi	94.00	-80.18047	-2.35387	-5.56651	-0.05143	-3.74685	2.615
Asta 165 (133- 132)	195	massimi	188.00	-81.64922	-2.35387	-5.56651	-0.05143	-8.97938	4.859
Asta 165 (133- 132)	195	minimi	0.00	-83.99519	-2.38675	-6.024	-0.06104	1.48567	0.293
Asta 165 (133- 132)	195	minimi	94.00	-85.46394	-2.38675	-6.024	-0.06104	-4.13459	2.506
Asta 165 (133- 132)	195	minimi	188.00	-86.93269	-2.38675	-6.024	-0.06104	-9.79715	4.718
Asta 166 (138- 137)	196	massimi	0.00	-88.95185	1.56492	-1.46426	-0.82394	0.62816	1.489
Asta 166	196	massimi	94.00	-90.4206	1.56492	-1.46426	-0.82394	-0.81281	0.032

(138-137)									
Asta 166 (138-137)	196	massimi	188.00	-91.88935	1.56492	-1.46426	-0.82394	-2.18921	-1.424
Asta 166 (138-137)	196	minimi	0.00	-91.09559	1.54913	-1.64529	-0.88007	0.5636	1.467
Asta 166 (138-137)	196	minimi	94.00	-92.56434	1.54913	-1.64529	-0.88007	-0.91841	-0.004
Asta 166 (138-137)	196	minimi	188.00	-94.03309	1.54913	-1.64529	-0.88007	-2.46498	-1.475
Asta 167 (143-142)	197	massimi	0.00	-69.98974	-8.13465	-21.08878	-2.00215	17.8457	-2.301
Asta 167 (143-142)	197	massimi	94.00	-71.45849	-8.13465	-21.08878	-2.00215	-2.90614	5.739
Asta 167 (143-142)	197	massimi	188.00	-72.92724	-8.13465	-21.08878	-2.00215	-22.72959	13.851
Asta 167 (143-142)	197	minimi	0.00	-72.79529	-8.62931	-22.23933	-2.12598	16.9173	-2.373
Asta 167 (143-142)	197	minimi	94.00	-74.26404	-8.62931	-22.23933	-2.12598	-3.05927	5.346
Asta 167 (143-142)	197	minimi	188.00	-75.73279	-8.62931	-22.23933	-2.12598	-23.96424	12.992
Asta 168 (148-147)	198	massimi	0.00	-27.58021	-3.15084	-6.79582	-0.1722	1.74731	-1.234
Asta 168 (148-147)	198	massimi	94.00	-29.04896	-3.15084	-6.79582	-0.1722	-4.70985	1.807
Asta 168 (148-147)	198	massimi	188.00	-30.51771	-3.15084	-6.79582	-0.1722	-11.09792	4.89
Asta 168 (148-147)	198	minimi	0.00	-28.56472	-3.27995	-7.11647	-0.17271	1.67821	-1.276
Asta 168 (148-147)	198	minimi	94.00	-30.03347	-3.27995	-7.11647	-0.17271	-4.94217	1.728
Asta 168 (148-147)	198	minimi	188.00	-31.50222	-3.27995	-7.11647	-0.17271	-11.63165	4.69
Asta 169 (153-152)	199	massimi	0.00	-75.77374	-6.6568	-1.29927	0.83148	0.59141	-2.146
Asta 169 (153-152)	199	massimi	94.00	-77.24249	-6.6568	-1.29927	0.83148	-0.66474	4.415
Asta 169 (153-152)	199	massimi	188.00	-78.71124	-6.6568	-1.29927	0.83148	-1.88606	11.116
Asta 169 (153-152)	199	minimi	0.00	-78.47606	-7.12879	-1.37501	0.78209	0.55657	-2.286
Asta 169 (153-152)	199	minimi	94.00	-79.94481	-7.12879	-1.37501	0.78209	-0.7011	4.111
Asta 169 (153-152)	199	minimi	188.00	-81.41356	-7.12879	-1.37501	0.78209	-1.99361	10.368
Asta 170 (158-157)	200	massimi	0.00	-73.9065	-5.95263	-0.80606	0.44927	-1.13135	-2.063

Asta 170 (158-157)	200	massimi	94.00	-75.37525	-5.95263	-0.80606	0.44927	-1.91477	3.733
Asta 170 (158-157)	200	massimi	188.00	-76.844	-5.95263	-0.80606	0.44927	-2.6982	9.689
Asta 170 (158-157)	200	minimi	0.00	-78.62211	-6.33609	-0.83343	0.42145	-1.3485	-2.223
Asta 170 (158-157)	200	minimi	94.00	-80.09086	-6.33609	-0.83343	0.42145	-2.1062	3.533
Asta 170 (158-157)	200	minimi	188.00	-81.55961	-6.33609	-0.83343	0.42145	-2.8639	9.128
Asta 171 (4-9)	201	massimi	0.00	39.30857	0.09912	53.45173	-0.80716	-106.92755	0.452
Asta 171 (4-9)	201	massimi	630.00	39.30857	0.09912	-0.582	0.30431	56.10256	-0.172
Asta 171 (4-9)	201	massimi	1260.00	39.30857	0.09912	-51.12706	1.00113	-108.994	-0.728
Asta 171 (4-9)	201	minimi	0.00	37.73889	0.08717	52.47105	-0.89316	-108.78952	0.371
Asta 171 (4-9)	201	minimi	630.00	37.73889	0.08717	-0.64361	0.27748	55.20624	-0.179
Asta 171 (4-9)	201	minimi	1260.00	37.73889	0.08717	-51.97038	0.90862	-111.08499	-0.796
Asta 172 (14-4)	202	massimi	0.00	-0.98959	0.2754	19.51167	0.55218	-4.36369	0.957
Asta 172 (14-4)	202	massimi	237.00	-0.98959	0.2754	-5.26396	0.99763	11.42443	0.322
Asta 172 (14-4)	202	massimi	474.00	-0.98959	0.2754	-28.82904	1.23226	-29.38876	-0.125
Asta 172 (14-4)	202	minimi	0.00	-0.99606	0.18842	19.35787	0.52973	-5.39393	0.768
Asta 172 (14-4)	202	minimi	237.00	-0.99606	0.18842	-5.81185	0.976	11.25052	0.304
Asta 172 (14-4)	202	minimi	474.00	-0.99606	0.18842	-29.64524	1.18851	-30.85615	-0.349
Asta 173 (9-19)	203	massimi	0.00	-2.6892	-0.90645	38.01711	-2.96133	-46.1473	-2.507
Asta 173 (9-19)	203	massimi	237.00	-2.6892	-0.90645	12.84739	-2.53751	11.22459	-0.359
Asta 173 (9-19)	203	massimi	474.00	-2.6892	-0.90645	-10.986	-2.325	13.1664	1.809
Asta 173 (9-19)	203	minimi	0.00	-2.7814	-0.92909	36.63659	-3.11472	-48.78591	-2.595
Asta 173 (9-19)	203	minimi	237.00	-2.7814	-0.92909	11.86096	-2.64681	11.08322	-0.393
Asta 173 (9-19)	203	minimi	474.00	-2.7814	-0.92909	-11.70412	-2.41219	11.02999	1.789
Asta 174 (29-14)	204	massimi	0.00	-0.83158	-0.5216	25.95809	-1.11309	-20.24492	-1.331
Asta 174 (29-14)	204	massimi	237.00	-0.83158	-0.5216	0.78838	-0.68927	10.85493	-0.095
Asta 174 (29-14)	204	massimi	474.00	-0.83158	-0.5216	-22.82739	-0.47676	-15.78312	1.146
Asta 174 (29-14)	204	minimi	0.00	-0.84492	-0.54007	25.51332	-1.21014	-20.57572	-1.414
Asta 174 (29-14)	204	minimi	237.00	-0.84492	-0.54007	0.73768	-0.74224	10.62343	-0.134
Asta 174 (29-14)	204	minimi	474.00	-0.84492	-0.54007	-23.04501	-0.50761	-15.79196	1.141
Asta 175 (24-19)	205	massimi	0.00	-13.25335	-0.77605	42.24199	1.00681	-21.48676	-2.281
Asta 175 (24-19)	205	massimi	307.50	-13.25335	-0.77605	-2.68356	0.39021	37.6758	0.118
Asta 175 (24-19)	205	massimi	615.00	-13.25335	-0.77605	-44.06104	0.11333	-36.48149	2.615
Asta 175	205	minimi	0.00	-13.94425	-0.81206	40.31279	0.93871	-22.66663	-2.38

(24-19)									
Asta 175 (24-19)	205	minimi	307.50	-13.94425	-0.81206	-2.72019	0.38009	35.87825	0.106
Asta 175 (24-19)	205	minimi	615.00	-13.94425	-0.81206	-45.74118	0.09579	-37.25591	2.492
Asta 176 (19-34)	206	massimi	0.00	-4.31085	0.21389	23.61118	-1.0305	-20.05647	0.912
Asta 176 (19-34)	206	massimi	237.00	-4.31085	0.21389	2.63099	-1.0305	10.40667	0.426
Asta 176 (19-34)	206	massimi	474.00	-4.31085	0.21389	-18.34919	-1.0305	-8.2194	-0.037
Asta 176 (19-34)	206	minimi	0.00	-4.51534	0.19552	23.27573	-1.08548	-20.6903	0.889
Asta 176 (19-34)	206	minimi	237.00	-4.51534	0.19552	2.29555	-1.08548	10.2455	0.405
Asta 176 (19-34)	206	minimi	474.00	-4.51534	0.19552	-18.68464	-1.08548	-9.17557	-0.102
Asta 177 (39-24)	207	massimi	0.00	-12.40921	0.63456	5.17549	1.56587	5.82688	1.107
Asta 177 (39-24)	207	massimi	237.00	-12.40921	0.63456	-5.27388	1.10869	4.86254	-0.372
Asta 177 (39-24)	207	massimi	474.00	-12.40921	0.63456	-14.6901	0.86475	-19.19154	-1.835
Asta 177 (39-24)	207	minimi	0.00	-13.2038	0.61708	5.10928	1.50817	4.99047	1.09
Asta 177 (39-24)	207	minimi	237.00	-13.2038	0.61708	-5.73297	1.09398	4.66983	-0.397
Asta 177 (39-24)	207	minimi	474.00	-13.2038	0.61708	-15.43471	0.85568	-20.44642	-1.901
Asta 178 (44-29)	208	massimi	0.00	-1.2722	0.03416	25.83062	-0.5073	-20.95754	-0.453
Asta 178 (44-29)	208	massimi	237.00	-1.2722	0.03416	0.66091	-0.08348	9.76515	-0.533
Asta 178 (44-29)	208	massimi	474.00	-1.2722	0.03416	-22.9479	0.14459	-17.07577	-0.612
Asta 178 (44-29)	208	minimi	0.00	-1.2798	0.03362	25.39281	-0.55794	-21.36339	-0.485
Asta 178 (44-29)	208	minimi	237.00	-1.2798	0.03362	0.61718	-0.09003	9.62521	-0.566
Asta 178 (44-29)	208	minimi	474.00	-1.2798	0.03362	-23.17248	0.12904	-17.175	-0.647
Asta 179 (39-34)	209	massimi	0.00	-17.2481	-1.37085	66.35119	0.79826	-32.33951	-4.084
Asta 179 (39-34)	209	massimi	307.50	-17.2481	-1.37085	-6.61558	0.79826	57.4569	0.14
Asta 179 (39-34)	209	massimi	615.00	-17.2481	-1.37085	-76.55593	0.79826	-73.02534	4.574
Asta 179 (39-34)	209	minimi	0.00	-18.48153	-1.44192	63.32477	0.75547	-34.32136	-4.294
Asta 179 (39-34)	209	minimi	307.50	-18.48153	-1.44192	-6.65801	0.75547	54.85086	0.131
Asta 179 (39-34)	209	minimi	615.00	-18.48153	-1.44192	-79.66722	0.75547	-75.26815	4.347
Asta 180 (34-49)	210	massimi	0.00	-5.8304	0.86794	20.49561	-0.14301	-14.25882	2.451
Asta 180 (34-49)	210	massimi	237.00	-5.8304	0.86794	-0.48457	-0.14301	9.24375	0.394
Asta 180 (34-49)	210	massimi	474.00	-5.8304	0.86794	-21.46476	-0.14301	-16.86788	-1.58
Asta 180 (34-49)	210	minimi	0.00	-6.13821	0.81977	20.40679	-0.15294	-14.57102	2.305
Asta 180 (34-49)	210	minimi	237.00	-6.13821	0.81977	-0.5734	-0.15294	9.14207	0.362
Asta 180 (34-49)	210	minimi	474.00	-6.13821	0.81977	-21.55358	-0.15294	-16.97672	-1.663
Asta 181 (54-39)	211	massimi	0.00	-24.31947	0.88009	6.52445	-0.30529	6.81296	1.328
Asta 181 (54-39)	211	massimi	237.00	-24.31947	0.88009	-4.14702	-0.71948	9.20258	-0.705
Asta 181	211	massimi	474.00	-24.31947	0.88009	-13.56324	-0.94871	-12.47602	-2.673

(54-39)									
Asta 181 (54-39)	211	minimi	0.00	-25.86216	0.8304	6.30235	-0.3058	6.36468	1.263
Asta 181 (54-39)	211	minimi	237.00	-25.86216	0.8304	-4.3178	-0.76298	8.71469	-0.758
Asta 181 (54-39)	211	minimi	474.00	-25.86216	0.8304	-14.01954	-1.01599	-12.75242	-2.844
Asta 182 (74-44)	212	massimi	0.00	-1.56582	0.42512	25.6282	-0.03295	-20.00885	0.857
Asta 182 (74-44)	212	massimi	237.00	-1.56582	0.42512	0.45848	0.41993	10.29946	-0.139
Asta 182 (74-44)	212	massimi	474.00	-1.56582	0.42512	-23.14335	0.65456	-17.05351	-1.136
Asta 182 (74-44)	212	minimi	0.00	-1.59517	0.42037	25.19736	-0.04797	-20.34933	0.825
Asta 182 (74-44)	212	minimi	237.00	-1.59517	0.42037	0.42173	0.39087	10.11069	-0.183
Asta 182 (74-44)	212	minimi	474.00	-1.59517	0.42037	-23.37491	0.60338	-17.12044	-1.19
Asta 183 (54-49)	213	massimi	0.00	-20.84041	-2.19675	65.05527	-0.30576	-29.69142	-6.888
Asta 183 (54-49)	213	massimi	307.50	-20.84041	-2.19675	-7.86773	-0.30576	56.18771	-0.133
Asta 183 (54-49)	213	massimi	615.00	-20.84041	-2.19675	-77.80809	-0.30576	-78.07798	7.033
Asta 183 (54-49)	213	minimi	0.00	-22.33609	-2.33286	62.07262	-0.33097	-31.60558	-7.314
Asta 183 (54-49)	213	minimi	307.50	-22.33609	-2.33286	-7.95394	-0.33097	53.64859	-0.141
Asta 183 (54-49)	213	minimi	615.00	-22.33609	-2.33286	-80.96314	-0.33097	-80.52229	6.622
Asta 184 (49-79)	214	massimi	0.00	-6.33174	1.49844	20.19322	0.39932	-13.03186	3.90
Asta 184 (49-79)	214	massimi	237.00	-6.33174	1.49844	-0.78696	0.39932	9.68549	0.349
Asta 184 (49-79)	214	massimi	474.00	-6.33174	1.49844	-21.76715	0.39932	-17.15189	-2.998
Asta 184 (49-79)	214	minimi	0.00	-6.67029	1.40532	20.07547	0.37113	-13.42168	3.663
Asta 184 (49-79)	214	minimi	237.00	-6.67029	1.40532	-0.90471	0.37113	9.57473	0.332
Asta 184 (49-79)	214	minimi	474.00	-6.67029	1.40532	-21.8849	0.37113	-17.32019	-3.202
Asta 185 (84-54)	215	massimi	0.00	-54.6137	1.62206	8.57338	0.48388	6.57962	3.937
Asta 185 (84-54)	215	massimi	237.00	-54.6137	1.62206	-4.1975	0.02671	11.36781	0.093
Asta 185 (84-54)	215	massimi	474.00	-54.6137	1.62206	-15.45046	-0.21217	-12.73629	-3.51
Asta 185 (84-54)	215	minimi	0.00	-57.28058	1.51338	8.08862	0.43125	6.34367	3.663
Asta 185 (84-54)	215	minimi	237.00	-57.28058	1.51338	-4.34262	0.01705	10.7506	0.077
Asta 185 (84-54)	215	minimi	474.00	-57.28058	1.51338	-16.11811	-0.2263	-13.10341	-3.752
Asta 186 (104-74)	216	massimi	0.00	-2.02612	0.24239	29.29072	-0.94843	-27.78462	1.48
Asta 186 (104-74)	216	massimi	237.00	-2.02612	0.24239	4.121	-0.52461	10.28499	0.906
Asta 186 (104-74)	216	massimi	474.00	-2.02612	0.24239	-19.71239	-0.3121	-8.45473	0.543
Asta 186 (104-74)	216	minimi	0.00	-2.06587	0.13071	28.49682	-1.06225	-29.04398	1.162
Asta 186 (104-74)	216	minimi	237.00	-2.06587	0.13071	3.72119	-0.59434	10.15464	0.853
Asta 186 (104-74)	216	minimi	474.00	-2.06587	0.13071	-19.84389	-0.35972	-9.18984	0.331
Asta 187 (84-79)	217	massimi	0.00	-28.067	-2.45051	66.09058	-1.60362	-33.38332	-7.353
Asta 187	217	massimi	307.50	-28.067	-2.45051	-6.89874	-1.60362	55.44168	0.20

(84-79)									
Asta 187 (84-79)	217	massimi	615.00	-28.067	-2.45051	-76.83909	-1.60362	-75.81056	8.164
Asta 187 (84-79)	217	minimi	0.00	-29.85828	-2.59009	63.04162	-1.70401	-35.53519	-7.765
Asta 187 (84-79)	217	minimi	307.50	-29.85828	-2.59009	-6.91863	-1.70401	52.93635	0.183
Asta 187 (84-79)	217	minimi	615.00	-29.85828	-2.59009	-79.92783	-1.70401	-78.08475	7.718
Asta 188 (79-109)	218	massimi	0.00	-6.68431	1.94078	14.124	1.70946	2.36948	4.839
Asta 188 (79-109)	218	massimi	237.00	-6.68431	1.94078	-6.85619	1.70946	9.37297	0.239
Asta 188 (79-109)	218	massimi	474.00	-6.68431	1.94078	-27.83637	1.70946	-31.73771	-4.226
Asta 188 (79-109)	218	minimi	0.00	-7.04446	1.87627	13.43949	1.57799	0.76061	4.667
Asta 188 (79-109)	218	minimi	237.00	-7.04446	1.87627	-7.54069	1.57799	9.35955	0.22
Asta 188 (79-109)	218	minimi	474.00	-7.04446	1.87627	-28.52088	1.57799	-33.37341	-4.361
Asta 189 (114-84)	219	massimi	0.00	-61.71872	0.63109	10.9162	1.34058	-4.30923	-0.177
Asta 189 (114-84)	219	massimi	237.00	-61.71872	0.63109	2.17682	1.34058	11.17266	-1.672
Asta 189 (114-84)	219	massimi	474.00	-61.71872	0.63109	-6.40968	1.34058	5.97558	-3.168
Asta 189 (114-84)	219	minimi	0.00	-64.55986	0.62277	10.59507	1.29919	-4.34257	-0.317
Asta 189 (114-84)	219	minimi	237.00	-64.55986	0.62277	2.09269	1.29919	10.72577	-1.793
Asta 189 (114-84)	219	minimi	474.00	-64.55986	0.62277	-6.56255	1.29919	5.61014	-3.269
Asta 190 (119-104)	220	massimi	0.00	15.691	-2.61107	-11.79375	9.77609	28.11748	-4.822
Asta 190 (119-104)	220	massimi	173.00	15.691	-2.61107	-30.77473	10.15731	-12.91897	-0.283
Asta 190 (119-104)	220	massimi	346.00	15.691	-2.61107	-48.27458	10.29206	-81.51015	4.574
Asta 190 (119-104)	220	minimi	0.00	14.32678	-2.80753	-14.48163	9.40449	24.1163	-5.14
Asta 190 (119-104)	220	minimi	173.00	14.32678	-2.80753	-33.74836	9.7498	-13.83718	-0.305
Asta 190 (119-104)	220	minimi	346.00	14.32678	-2.80753	-51.38006	9.87185	-87.70898	4.212
Asta 191 (114-109)	221	massimi	0.00	-26.14894	-3.94382	58.36804	-3.29711	-30.98479	-13.064
Asta 191 (114-109)	221	massimi	307.50	-26.14894	-3.94382	-4.72972	-3.29711	49.56068	-0.936
Asta 191 (114-109)	221	massimi	615.00	-26.14894	-3.94382	-65.22368	-3.29711	-60.07258	11.89
Asta 191 (114-109)	221	minimi	0.00	-28.14789	-4.19144	55.76424	-3.49635	-32.87402	-13.887
Asta 191 (114-109)	221	minimi	307.50	-28.14789	-4.19144	-4.75197	-3.49635	47.48078	-0.998
Asta 191 (114-109)	221	minimi	615.00	-28.14789	-4.19144	-67.87198	-3.49635	-62.09865	11.191
Asta 192 (109-)	222	massimi	0.00	26.05315	3.53163	52.05259	-2.87224	-77.28281	8.74

124)									
Asta 192 (109- 124)	222	massimi	127.00	26.05315	3.53163	31.77486	-2.87224	-27.83361	4.254
Asta 192 (109- 124)	222	massimi	254.00	26.05315	3.53163	11.49712	-2.87224	-1.88955	-0.213
Asta 192 (109- 124)	222	minimi	0.00	25.44542	3.29253	48.88157	-3.04681	-82.59768	8.15
Asta 192 (109- 124)	222	minimi	127.00	25.44542	3.29253	28.99119	-3.04681	-29.36725	3.969
Asta 192 (109- 124)	222	minimi	254.00	25.44542	3.29253	9.10081	-3.04681	-3.64519	-0.231
Asta 193 (144- 114)	223	massimi	0.00	-31.22844	7.82429	18.84662	-0.92894	-22.43954	11.517
Asta 193 (144- 114)	223	massimi	165.00	-31.22844	7.82429	14.206	-0.92894	3.73718	-1.293
Asta 193 (144- 114)	223	massimi	330.00	-31.22844	7.82429	9.56537	-0.92894	23.34856	-13.324
Asta 193 (144- 114)	223	minimi	0.00	-32.77867	7.29123	18.12626	-0.97725	-23.53124	10.737
Asta 193 (144- 114)	223	minimi	165.00	-32.77867	7.29123	13.48563	-0.97725	3.64026	-1.393
Asta 193 (144- 114)	223	minimi	330.00	-32.77867	7.29123	8.84501	-0.97725	22.06304	-14.303
Asta 194 (124- 119)	224	massimi	0.00	5.93137	-2.00209	38.11957	-4.27782	-32.03166	-8.604
Asta 194 (124- 119)	224	massimi	330.00	5.93137	-2.00209	5.10472	-4.27782	39.28841	-1.997
Asta 194 (124- 119)	224	massimi	660.00	5.93137	-2.00209	-27.91013	-4.27782	1.65949	4.954
Asta 194 (124- 119)	224	minimi	0.00	3.89457	-2.14854	37.77159	-4.42633	-32.06254	-9.227
Asta 194 (124- 119)	224	minimi	330.00	3.89457	-2.14854	4.75674	-4.42633	38.1092	-2.137
Asta 194 (124- 119)	224	minimi	660.00	3.89457	-2.14854	-28.25811	-4.42633	-0.66806	4.61
Asta 195 (119- 129)	225	massimi	0.00	-14.75719	2.5889	63.31202	5.11845	-39.87381	9.926
Asta 195 (119- 129)	225	massimi	330.00	-14.75719	2.5889	1.47472	4.50489	64.84304	1.382
Asta 195 (119- 129)	225	massimi	660.00	-14.75719	2.5889	-56.714	4.10929	-29.29306	-6.683
Asta 195 (119- 129)	225	minimi	0.00	-15.63231	2.41771	60.63196	4.75117	-41.73102	9.274
Asta 195 (119- 129)	225	minimi	330.00	-15.63231	2.41771	1.42523	4.19529	62.22698	1.295
Asta 195 (119- 129)	225	minimi	660.00	-15.63231	2.41771	-59.18418	3.83687	-30.70163	-7.161
Asta 196	226	massimi	0.00	-9.50709	6.47457	30.11992	-5.50381	-5.85809	10.076

(124-139)									
Asta 196 (124-139)	226	massimi	165.00	-9.50709	6.47457	0.6358	-5.50381	18.91657	-0.564
Asta 196 (124-139)	226	massimi	330.00	-9.50709	6.47457	-28.08614	-5.50381	-4.35877	-10.528
Asta 196 (124-139)	226	minimi	0.00	-10.25095	6.03876	28.45662	-5.70113	-6.4569	9.40
Asta 196 (124-139)	226	minimi	165.00	-10.25095	6.03876	0.18524	-5.70113	17.77145	-0.607
Asta 196 (124-139)	226	minimi	330.00	-10.25095	6.03876	-28.84833	-5.70113	-5.24679	-11.29
Asta 197 (129-134)	227	massimi	0.00	-8.93737	-1.4971	13.70523	4.21076	-6.67397	-6.078
Asta 197 (129-134)	227	massimi	330.00	-8.93737	-1.4971	-1.23406	3.59719	13.26022	-1.138
Asta 197 (129-134)	227	massimi	660.00	-8.93737	-1.4971	-14.68186	3.20159	-13.64449	4.092
Asta 197 (129-134)	227	minimi	0.00	-9.35663	-1.60705	13.28124	4.04984	-6.79602	-6.515
Asta 197 (129-134)	227	minimi	330.00	-9.35663	-1.60705	-1.35353	3.49395	12.91033	-1.211
Asta 197 (129-134)	227	minimi	660.00	-9.35663	-1.60705	-15.23387	3.13554	-14.43305	3.803
Asta 198 (139-134)	228	massimi	0.00	-5.16761	2.71904	23.65361	3.71028	-2.76267	1.162
Asta 198 (139-134)	228	massimi	165.00	-5.16761	2.71904	-3.41662	3.71028	13.13247	-3.114
Asta 198 (139-134)	228	massimi	330.00	-5.16761	2.71904	-30.40925	3.71028	-15.19092	-7.387
Asta 198 (139-134)	228	minimi	0.00	-5.54456	2.58994	23.57601	3.65488	-3.91607	1.159
Asta 198 (139-134)	228	minimi	165.00	-5.54456	2.58994	-4.38677	3.65488	12.71542	-3.324
Asta 198 (139-134)	228	minimi	330.00	-5.54456	2.58994	-32.42714	3.65488	-17.239	-7.811
Asta 199 (134-159)	229	massimi	0.00	-9.17344	-1.0982	34.27168	10.96093	-7.17567	-3.533
Asta 199 (134-159)	229	massimi	244.50	-9.17344	-1.0982	-7.51281	0.99338	23.25168	-0.848
Asta 199 (134-159)	229	massimi	489.00	-9.17344	-1.0982	-42.75708	-3.99032	-40.79458	1.856
Asta 199 (134-159)	229	minimi	0.00	-9.68892	-1.12761	31.55812	9.49299	-7.94385	-3.658
Asta 199 (134-159)	229	minimi	244.50	-9.68892	-1.12761	-8.01733	0.8615	21.44004	-0.901
Asta 199 (134-159)	229	minimi	489.00	-9.68892	-1.12761	-45.88717	-4.60937	-43.54698	1.837

Asta 200 (139-154)	230	massimi	0.00	-5.01373	-2.87522	36.53116	-1.1657	-12.69179	-10.863
Asta 200 (139-154)	230	massimi	244.50	-5.01373	-2.87522	-3.46695	-1.1657	27.24686	-3.833
Asta 200 (139-154)	230	massimi	489.00	-5.01373	-2.87522	-42.16111	-1.1657	-29.64517	3.397
Asta 200 (139-154)	230	minimi	0.00	-5.30467	-3.0611	35.22721	-1.20385	-12.94491	-11.572
Asta 200 (139-154)	230	minimi	244.50	-5.30467	-3.0611	-3.65446	-1.20385	26.13513	-4.088
Asta 200 (139-154)	230	minimi	489.00	-5.30467	-3.0611	-43.84007	-1.20385	-30.8152	3.196
Asta 201 (149-144)	231	massimi	0.00	-6.53105	-0.06997	11.66402	-1.23536	-15.11855	2.802
Asta 201 (149-144)	231	massimi	165.00	-6.53105	-0.06997	5.57965	-1.23536	-1.58638	2.922
Asta 201 (149-144)	231	massimi	330.00	-6.53105	-0.06997	-0.50473	-1.23536	2.38316	3.042
Asta 201 (149-144)	231	minimi	0.00	-6.79492	-0.07288	11.161	-1.32785	-16.02967	2.594
Asta 201 (149-144)	231	minimi	165.00	-6.79492	-0.07288	5.24162	-1.32785	-1.80365	2.709
Asta 201 (149-144)	231	minimi	330.00	-6.79492	-0.07288	-0.67775	-1.32785	2.17881	2.825
Asta 202 (154-144)	232	massimi	0.00	1.82413	-1.57595	32.57349	-3.43731	-18.71185	2.565
Asta 202 (154-144)	232	massimi	190.00	1.82413	-1.57595	1.48105	-3.43731	13.10421	5.769
Asta 202 (154-144)	232	massimi	380.00	1.82413	-1.57595	-28.58803	-3.43731	-13.08386	8.973
Asta 202 (154-144)	232	minimi	0.00	1.64307	-1.68609	31.55013	-3.61028	-19.11874	2.414
Asta 202 (154-144)	232	minimi	190.00	1.64307	-1.68609	1.34541	-3.61028	12.66778	5.409
Asta 202 (154-144)	232	minimi	380.00	1.64307	-1.68609	-29.88268	-3.61028	-14.0062	8.403
Asta 203 (159-149)	233	massimi	0.00	-3.22081	-0.26477	30.67244	-3.95909	-30.87443	1.415
Asta 203 (159-149)	233	massimi	190.00	-3.22081	-0.26477	7.3635	-4.30164	3.11975	2.018
Asta 203 (159-149)	233	massimi	380.00	-3.22081	-0.26477	-14.35671	-4.46985	-4.15752	2.629
Asta 203 (159-149)	233	minimi	0.00	-3.35283	-0.32155	29.08692	-4.32487	-32.96017	1.407
Asta 203 (159-149)	233	minimi	190.00	-3.35283	-0.32155	6.86359	-4.70297	2.99867	1.919
Asta 203 (159-149)	233	minimi	380.00	-3.35283	-0.32155	-14.83819	-4.88863	-4.2776	2.422

149)									
Asta 204 (4-3)	234	massimi	0.00	-242.19748	25.61687	9.58158	0.34976	-15.3246	37.972
Asta 204 (4-3)	234	massimi	66.00	-245.16748	25.61687	9.58158	0.34976	-9.27316	21.065
Asta 204 (4-3)	234	massimi	132.00	-248.13748	25.61687	9.58158	0.34976	-3.22172	5.474
Asta 204 (4-3)	234	minimi	0.00	-247.28818	23.47399	9.16885	0.23752	-16.04367	36.46
Asta 204 (4-3)	234	minimi	66.00	-250.25818	23.47399	9.16885	0.23752	-9.71982	20.967
Asta 204 (4-3)	234	minimi	132.00	-253.22818	23.47399	9.16885	0.23752	-3.39598	4.158
Asta 205 (9-8)	235	massimi	0.00	-253.52856	-26.98628	15.82728	1.35741	-25.69683	-40.016
Asta 205 (9-8)	235	massimi	66.00	-256.49856	-26.98628	15.82728	1.35741	-15.78738	-22.205
Asta 205 (9-8)	235	massimi	132.00	-259.46856	-26.98628	15.82728	1.35741	-5.87794	-3.036
Asta 205 (9-8)	235	minimi	0.00	-259.46047	-29.53439	15.01431	1.32072	-27.12735	-42.022
Asta 205 (9-8)	235	minimi	66.00	-262.43047	-29.53439	15.01431	1.32072	-16.68135	-22.529
Asta 205 (9-8)	235	minimi	132.00	-265.40047	-29.53439	15.01431	1.32072	-6.23534	-4.394
Asta 206 (14-13)	236	massimi	0.00	-280.42311	34.28667	3.70459	1.13307	-5.55026	26.312
Asta 206 (14-13)	236	massimi	66.00	-283.39311	34.28667	3.70459	1.13307	-3.32425	5.201
Asta 206 (14-13)	236	massimi	132.00	-286.36311	34.28667	3.70459	1.13307	-1.09825	-15.909
Asta 206 (14-13)	236	minimi	0.00	-287.13218	31.98532	3.37273	0.96959	-6.09082	25.274
Asta 206 (14-13)	236	minimi	66.00	-290.10218	31.98532	3.37273	0.96959	-3.64579	2.644
Asta 206 (14-13)	236	minimi	132.00	-293.07218	31.98532	3.37273	0.96959	-1.20076	-19.985
Asta 207 (19-18)	237	massimi	0.00	-317.69664	-18.16575	12.15372	2.46326	-18.39837	-3.632
Asta 207 (19-18)	237	massimi	66.00	-320.66664	-18.16575	12.15372	2.46326	-11.0068	9.33
Asta 207 (19-18)	237	massimi	132.00	-323.63664	-18.16575	12.15372	2.46326	-3.61523	22.293
Asta 207 (19-18)	237	minimi	0.00	-325.73569	-19.63984	11.19935	2.32441	-19.95681	-4.419
Asta 207 (19-18)	237	minimi	66.00	-328.70569	-19.63984	11.19935	2.32441	-11.93535	7.571
Asta 207 (19-18)	237	minimi	132.00	-331.67569	-19.63984	11.19935	2.32441	-3.91389	19.56
Asta 208 (24-23)	238	massimi	0.00	-55.00288	-12.63627	12.39174	0.47866	-18.25283	-22.352
Asta 208 (24-23)	238	massimi	66.00	-56.03413	-12.63627	12.39174	0.47866	-10.57494	-14.012
Asta 208 (24-23)	238	massimi	132.00	-57.06538	-12.63627	12.39174	0.47866	-2.89706	-5.672
Asta 208 (24-23)	238	minimi	0.00	-57.6767	-13.30969	11.63316	0.44628	-19.43961	-23.522
Asta 208 (24-23)	238	minimi	66.00	-58.70795	-13.30969	11.63316	0.44628	-11.26106	-14.738
Asta 208 (24-23)	238	minimi	132.00	-59.7392	-13.30969	11.63316	0.44628	-3.08251	-5.954
Asta 209 (29-28)	239	massimi	0.00	-288.81267	31.59183	-0.77016	0.90805	1.24368	26.345
Asta 209 (29-28)	239	massimi	66.00	-291.78267	31.59183	-0.77016	0.90805	0.69716	6.887
Asta 209 (29-28)	239	massimi	132.00	-294.75267	31.59183	-0.77016	0.90805	0.15065	-12.571
Asta 209 (29-28)	239	minimi	0.00	-296.37032	29.48217	-0.82806	0.85043	1.15389	25.255
Asta 209	239	minimi	66.00	-299.34032	29.48217	-0.82806	0.85043	0.64559	4.404

(29-28)									
Asta 209 (29-28)	239	minimi	132.00	-302.31032	29.48217	-0.82806	0.85043	0.13728	-16.446
Asta 210 (34-33)	240	massimi	0.00	-358.43399	-8.28483	3.55062	1.31341	-5.79941	14.42
Asta 210 (34-33)	240	massimi	66.00	-361.40399	-8.28483	3.55062	1.31341	-3.64966	20.266
Asta 210 (34-33)	240	massimi	132.00	-364.37399	-8.28483	3.55062	1.31341	-1.49991	26.112
Asta 210 (34-33)	240	minimi	0.00	-367.97805	-8.85757	3.2572	1.21703	-6.31159	12.878
Asta 210 (34-33)	240	minimi	66.00	-370.94805	-8.85757	3.2572	1.21703	-3.96818	18.346
Asta 210 (34-33)	240	minimi	132.00	-373.91805	-8.85757	3.2572	1.21703	-1.62477	23.814
Asta 211 (39-38)	241	massimi	0.00	-82.0635	-17.03478	11.21643	0.34355	-16.71102	-29.883
Asta 211 (39-38)	241	massimi	66.00	-83.09475	-17.03478	11.21643	0.34355	-9.75501	-18.64
Asta 211 (39-38)	241	massimi	132.00	-84.126	-17.03478	11.21643	0.34355	-2.799	-7.397
Asta 211 (39-38)	241	minimi	0.00	-85.48001	-18.23599	10.53941	0.32108	-17.78103	-31.74
Asta 211 (39-38)	241	minimi	66.00	-86.51126	-18.23599	10.53941	0.32108	-10.37819	-19.704
Asta 211 (39-38)	241	minimi	132.00	-87.54251	-18.23599	10.53941	0.32108	-2.97534	-7.668
Asta 212 (44-43)	242	massimi	0.00	-288.70308	30.96797	-1.10706	-0.45469	1.84875	26.541
Asta 212 (44-43)	242	massimi	66.00	-291.67308	30.96797	-1.10706	-0.45469	1.05463	7.469
Asta 212 (44-43)	242	massimi	132.00	-294.64308	30.96797	-1.10706	-0.45469	0.26051	-11.604
Asta 212 (44-43)	242	minimi	0.00	-296.24915	28.89785	-1.20321	-0.47813	1.69626	25.467
Asta 212 (44-43)	242	minimi	66.00	-299.21915	28.89785	-1.20321	-0.47813	0.96559	5.028
Asta 212 (44-43)	242	minimi	132.00	-302.18915	28.89785	-1.20321	-0.47813	0.23493	-15.411
Asta 213 (49-48)	243	massimi	0.00	-363.24756	-5.01633	0.04167	0.24496	-0.45728	19.709
Asta 213 (49-48)	243	massimi	66.00	-366.21756	-5.01633	0.04167	0.24496	-0.4908	23.272
Asta 213 (49-48)	243	massimi	132.00	-369.18756	-5.01633	0.04167	0.24496	-0.51751	26.835
Asta 213 (49-48)	243	minimi	0.00	-373.38762	-5.39879	-0.05079	0.23301	-0.57251	17.906
Asta 213 (49-48)	243	minimi	66.00	-376.35762	-5.39879	-0.05079	0.23301	-0.54501	21.217
Asta 213 (49-48)	243	minimi	132.00	-379.32762	-5.39879	-0.05079	0.23301	-0.52432	24.527
Asta 214 (54-53)	244	massimi	0.00	-83.82544	-20.15743	29.08557	2.23487	-19.40673	-29.785
Asta 214 (54-53)	244	massimi	66.00	-84.85669	-20.15743	29.08557	2.23487	-0.86238	-16.481
Asta 214 (54-53)	244	massimi	132.00	-85.88794	-20.15743	29.08557	2.23487	18.14562	-3.177
Asta 214 (54-53)	244	minimi	0.00	-87.69783	-21.59412	28.09749	2.11403	-20.24733	-31.685
Asta 214 (54-53)	244	minimi	66.00	-88.72908	-21.59412	28.09749	2.11403	-1.05086	-17.433
Asta 214 (54-53)	244	minimi	132.00	-89.76033	-21.59412	28.09749	2.11403	17.68196	-3.181
Asta 215 (74-73)	245	massimi	0.00	-284.09827	32.28444	-3.26668	-0.55494	5.74568	27.903
Asta 215 (74-73)	245	massimi	66.00	-287.06827	32.28444	-3.26668	-0.55494	3.36388	8.069
Asta 215 (74-73)	245	massimi	132.00	-290.03827	32.28444	-3.26668	-0.55494	0.98208	-11.765
Asta 215	245	minimi	0.00	-291.16275	30.05138	-3.60879	-0.68255	5.20611	27.109

(74-73)									
Asta 215 (74-73)	245	minimi	66.00	-294.13274	30.05138	-3.60879	-0.68255	3.0501	5.802
Asta 215 (74-73)	245	minimi	132.00	-297.10274	30.05138	-3.60879	-0.68255	0.89409	-15.506
Asta 216 (79-78)	246	massimi	0.00	-353.50266	-1.383	-4.95185	-0.73712	8.27191	27.115
Asta 216 (79-78)	246	massimi	66.00	-356.47266	-1.383	-4.95185	-0.73712	4.65656	28.20
Asta 216 (79-78)	246	massimi	132.00	-359.44266	-1.383	-4.95185	-0.73712	1.04121	29.286
Asta 216 (79-78)	246	minimi	0.00	-362.80566	-1.64471	-5.4778	-0.76266	7.45951	25.071
Asta 216 (79-78)	246	minimi	66.00	-365.77566	-1.64471	-5.4778	-0.76266	4.19129	25.984
Asta 216 (79-78)	246	minimi	132.00	-368.74566	-1.64471	-5.4778	-0.76266	0.92307	26.897
Asta 217 (84-83)	247	massimi	0.00	-77.53992	-28.94929	4.68919	0.55862	-2.30805	-34.251
Asta 217 (84-83)	247	massimi	66.00	-78.57117	-28.94929	4.68919	0.55862	0.78681	-15.145
Asta 217 (84-83)	247	massimi	132.00	-79.60242	-28.94929	4.68919	0.55862	3.88168	4.34
Asta 217 (84-83)	247	minimi	0.00	-81.2265	-30.85757	4.65451	0.52156	-2.33715	-36.392
Asta 217 (84-83)	247	minimi	66.00	-82.25775	-30.85757	4.65451	0.52156	0.73483	-16.026
Asta 217 (84-83)	247	minimi	132.00	-83.289	-30.85757	4.65451	0.52156	3.8068	3.962
Asta 218 (104-103)	248	massimi	0.00	-242.33917	38.74653	-5.40125	0.87218	9.1246	42.072
Asta 218 (104-103)	248	massimi	66.00	-245.30917	38.74653	-5.40125	0.87218	5.4551	16.499
Asta 218 (104-103)	248	massimi	132.00	-248.27917	38.74653	-5.40125	0.87218	1.78559	-8.659
Asta 218 (104-103)	248	minimi	0.00	-250.29293	35.60867	-5.55986	0.83675	8.77927	38.345
Asta 218 (104-103)	248	minimi	66.00	-253.26293	35.60867	-5.55986	0.83675	5.21444	14.843
Asta 218 (104-103)	248	minimi	132.00	-256.23293	35.60867	-5.55986	0.83675	1.64961	-9.074
Asta 219 (109-108)	249	massimi	0.00	-312.57861	-3.74324	-9.91552	-0.92421	15.75322	15.194
Asta 219 (109-108)	249	massimi	66.00	-315.54861	-3.74324	-9.91552	-0.92421	8.90127	17.664
Asta 219 (109-108)	249	massimi	132.00	-318.51861	-3.74324	-9.91552	-0.92421	2.04931	20.24
Asta 219 (109-108)	249	minimi	0.00	-323.40523	-4.53233	-10.38176	-0.96487	15.03157	14.258
Asta 219 (109-108)	249	minimi	66.00	-326.37523	-4.53233	-10.38176	-0.96487	8.48733	17.249
Asta 219 (109-108)	249	minimi	132.00	-329.34523	-4.53233	-10.38176	-0.96487	1.94308	20.135
Asta 220 (114-113)	250	massimi	0.00	-57.5143	-19.4888	-34.4341	-0.08344	24.19477	-28.708
Asta 220 (114-113)	250	massimi	66.00	-58.54555	-19.4888	-34.4341	-0.08344	0.45283	-15.846

Asta 220 (114-113)	250	massimi	132.00	-59.5768	-19.4888	-34.4341	-0.08344	-22.37785	-2.955
Asta 220 (114-113)	250	minimi	0.00	-59.71887	-20.94637	-35.97263	-0.09895	23.07517	-30.605
Asta 220 (114-113)	250	minimi	66.00	-60.75012	-20.94637	-35.97263	-0.09895	0.34866	-16.78
Asta 220 (114-113)	250	minimi	132.00	-61.78137	-20.94637	-35.97263	-0.09895	-23.2891	-2.983
Asta 221 (119-118)	251	massimi	0.00	-76.74052	13.0211	14.97331	0.16814	-26.19151	21.34
Asta 221 (119-118)	251	massimi	66.00	-77.77177	13.0211	14.97331	0.16814	-16.85369	12.746
Asta 221 (119-118)	251	massimi	132.00	-78.80302	13.0211	14.97331	0.16814	-7.51587	4.152
Asta 221 (119-118)	251	minimi	0.00	-77.09632	12.17734	14.14821	0.15901	-27.5286	20.033
Asta 221 (119-118)	251	minimi	66.00	-78.12757	12.17734	14.14821	0.15901	-17.64622	11.996
Asta 221 (119-118)	251	minimi	132.00	-79.15882	12.17734	14.14821	0.15901	-7.76383	3.959
Asta 222 (124-123)	252	massimi	0.00	-56.74237	-14.08302	4.57079	-1.00908	-7.26367	-22.914
Asta 222 (124-123)	252	massimi	66.00	-57.77362	-14.08302	4.57079	-1.00908	-4.48344	-13.619
Asta 222 (124-123)	252	massimi	132.00	-58.80487	-14.08302	4.57079	-1.00908	-1.7032	-4.324
Asta 222 (124-123)	252	minimi	0.00	-57.1274	-15.07628	4.21247	-1.08008	-7.83642	-24.441
Asta 222 (124-123)	252	minimi	66.00	-58.15865	-15.07628	4.21247	-1.08008	-4.8197	-14.491
Asta 222 (124-123)	252	minimi	132.00	-59.1899	-15.07628	4.21247	-1.08008	-1.80298	-4.54
Asta 223 (129-128)	253	massimi	0.00	-69.99525	6.76773	-13.26009	-0.60509	26.49087	10.905
Asta 223 (129-128)	253	massimi	66.00	-71.0265	6.76773	-13.26009	-0.60509	17.2342	6.439
Asta 223 (129-128)	253	massimi	132.00	-72.05775	6.76773	-13.26009	-0.60509	7.97753	1.972
Asta 223 (129-128)	253	minimi	0.00	-72.8894	6.51966	-14.02526	-0.64655	25.24322	10.511
Asta 223 (129-128)	253	minimi	66.00	-73.92065	6.51966	-14.02526	-0.64655	16.49156	6.208
Asta 223 (129-128)	253	minimi	132.00	-74.9519	6.51966	-14.02526	-0.64655	7.73991	1.905
Asta 224 (134-133)	254	massimi	0.00	-76.64923	-2.35387	-5.56651	-0.05143	9.47966	-2.779
Asta 224 (134-133)	254	massimi	66.00	-77.68047	-2.35387	-5.56651	-0.05143	5.50382	-1.204

133)									
Asta 224 (134-133)	254	massimi	132.00	-78.71172	-2.35387	-5.56651	-0.05143	1.52798	0.372
Asta 224 (134-133)	254	minimi	0.00	-81.93269	-2.38675	-6.024	-0.06104	8.83347	-2.814
Asta 224 (134-133)	254	minimi	66.00	-82.96394	-2.38675	-6.024	-0.06104	5.15957	-1.26
Asta 224 (134-133)	254	minimi	132.00	-83.99519	-2.38675	-6.024	-0.06104	1.48567	0.293
Asta 225 (139-138)	255	massimi	0.00	-86.88935	1.56492	-1.46426	-0.82394	2.79994	3.533
Asta 225 (139-138)	255	massimi	66.00	-87.9206	1.56492	-1.46426	-0.82394	1.71405	2.511
Asta 225 (139-138)	255	massimi	132.00	-88.95185	1.56492	-1.46426	-0.82394	0.62816	1.489
Asta 225 (139-138)	255	minimi	0.00	-89.03309	1.54913	-1.64529	-0.88007	2.49642	3.533
Asta 225 (139-138)	255	minimi	66.00	-90.06434	1.54913	-1.64529	-0.88007	1.53001	2.50
Asta 225 (139-138)	255	minimi	132.00	-91.09559	1.54913	-1.64529	-0.88007	0.5636	1.467
Asta 226 (144-143)	256	massimi	0.00	-47.39204	-5.71813	-26.27335	0.49778	22.30412	-12.826
Asta 226 (144-143)	256	massimi	66.00	-48.42329	-5.71813	-26.27335	0.49778	4.04202	-9.052
Asta 226 (144-143)	256	massimi	132.00	-49.45454	-5.71813	-26.27335	0.49778	-13.49977	-5.278
Asta 226 (144-143)	256	minimi	0.00	-49.23403	-6.07305	-27.66984	0.49035	21.18104	-13.607
Asta 226 (144-143)	256	minimi	66.00	-50.26528	-6.07305	-27.66984	0.49035	3.84063	-9.599
Asta 226 (144-143)	256	minimi	132.00	-51.29653	-6.07305	-27.66984	0.49035	-14.22007	-5.591
Asta 227 (149-148)	257	massimi	0.00	-25.51771	-3.15084	-6.79582	-0.1722	11.14105	-5.393
Asta 227 (149-148)	257	massimi	66.00	-26.54896	-3.15084	-6.79582	-0.1722	6.44418	-3.313
Asta 227 (149-148)	257	massimi	132.00	-27.58021	-3.15084	-6.79582	-0.1722	1.74731	-1.234
Asta 227 (149-148)	257	minimi	0.00	-26.50222	-3.27995	-7.11647	-0.17271	10.64869	-5.605
Asta 227 (149-148)	257	minimi	66.00	-27.53347	-3.27995	-7.11647	-0.17271	6.16345	-3.441
Asta 227 (149-148)	257	minimi	132.00	-28.56472	-3.27995	-7.11647	-0.17271	1.67821	-1.276
Asta 228 (154-153)	258	massimi	0.00	-73.71124	-6.6568	-1.29927	0.83148	2.40643	-10.933
Asta 228	258	massimi	66.00	-74.74249	-6.6568	-1.29927	0.83148	1.49892	-6.54

(154-153)									
Asta 228 (154-153)	258	massimi	132.00	-75.77374	-6.6568	-1.29927	0.83148	0.59141	-2.146
Asta 228 (154-153)	258	minimi	0.00	-76.41356	-7.12879	-1.37501	0.78209	2.2716	-11.696
Asta 228 (154-153)	258	minimi	66.00	-77.44481	-7.12879	-1.37501	0.78209	1.41409	-6.991
Asta 228 (154-153)	258	minimi	132.00	-78.47606	-7.12879	-1.37501	0.78209	0.55657	-2.286
Asta 229 (159-158)	259	massimi	0.00	-71.844	-5.95263	-0.80606	0.44927	-0.03122	-9.92
Asta 229 (159-158)	259	massimi	66.00	-72.87525	-5.95263	-0.80606	0.44927	-0.58129	-5.991
Asta 229 (159-158)	259	massimi	132.00	-73.9065	-5.95263	-0.80606	0.44927	-1.13135	-2.063
Asta 229 (159-158)	259	minimi	0.00	-76.55961	-6.33609	-0.83343	0.42145	-0.2845	-10.587
Asta 229 (159-158)	259	minimi	66.00	-77.59086	-6.33609	-0.83343	0.42145	-0.8165	-6.405
Asta 229 (159-158)	259	minimi	132.00	-78.62211	-6.33609	-0.83343	0.42145	-1.3485	-2.223
Asta 230 (5-10)	260	massimi	0.00	-64.12013	0.61045	117.2032	0.93392	-126.09068	3.581
Asta 230 (5-10)	260	massimi	630.00	-64.12013	0.61045	-0.99295	0.93392	237.63792	-0.265
Asta 230 (5-10)	260	massimi	1260.00	-64.12013	0.61045	-116.84365	0.93392	-138.60183	-3.742
Asta 230 (5-10)	260	minimi	0.00	-64.92462	0.54997	114.85775	0.85501	-128.09943	3.188
Asta 230 (5-10)	260	minimi	630.00	-64.92462	0.54997	-1.0961	0.85501	232.58344	-0.277
Asta 230 (5-10)	260	minimi	1260.00	-64.92462	0.54997	-119.3954	0.85501	-141.91031	-4.111
Asta 231 (15-5)	261	massimi	0.00	-8.80993	-1.61298	2.89796	-2.29541	2.20868	-3.501
Asta 231 (15-5)	261	massimi	237.00	-8.80993	-1.61298	-2.43454	-2.29541	2.24786	0.343
Asta 231 (15-5)	261	massimi	474.00	-8.80993	-1.61298	-7.76705	-2.29541	-9.84186	4.508
Asta 231 (15-5)	261	minimi	0.00	-9.30157	-1.75729	2.68278	-2.37205	1.69788	-3.822
Asta 231 (15-5)	261	minimi	237.00	-9.30157	-1.75729	-2.64972	-2.37205	2.24702	0.322
Asta 231 (15-5)	261	minimi	474.00	-9.30157	-1.75729	-7.98222	-2.37205	-10.35099	4.145
Asta 232 (5-165)	262	massimi	0.00	0.00	0.00	25.9558	0.00	-16.39469	0.00
Asta 232 (5-165)	262	massimi	65.00	0.00	0.00	12.9779	0.00	-4.09867	0.00
Asta 232 (5-165)	262	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 232 (5-165)	262	minimi	0.00	0.00	0.00	25.2226	0.00	-16.87127	0.00
Asta 232 (5-165)	262	minimi	65.00	0.00	0.00	12.6113	0.00	-4.21782	0.00
Asta 232 (5-165)	262	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 233 (20-10)	263	massimi	0.00	-11.68797	-1.26828	0.01633	1.41069	9.38217	-2.729

Asta 233 (20-10)	263	massimi	237.00	-11.68797	-1.26828	-5.31617	1.41069	2.11515	0.306
Asta 233 (20-10)	263	massimi	474.00	-11.68797	-1.26828	-10.64867	1.41069	-16.80319	3.67
Asta 233 (20-10)	263	minimi	0.00	-12.33631	-1.41956	-0.40679	1.40218	8.39546	-3.059
Asta 233 (20-10)	263	minimi	237.00	-12.33631	-1.41956	-5.7393	1.40218	2.09905	0.277
Asta 233 (20-10)	263	minimi	474.00	-12.33631	-1.41956	-11.0718	1.40218	-17.82209	3.283
Asta 234 (10-175)	264	massimi	0.00	0.00	0.00	25.9558	0.00	-16.39469	0.00
Asta 234 (10-175)	264	massimi	65.00	0.00	0.00	12.9779	0.00	-4.09867	0.00
Asta 234 (10-175)	264	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 234 (10-175)	264	minimi	0.00	0.00	0.00	25.2226	0.00	-16.87127	0.00
Asta 234 (10-175)	264	minimi	65.00	0.00	0.00	12.6113	0.00	-4.21782	0.00
Asta 234 (10-175)	264	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 235 (15-20)	265	massimi	0.00	-32.598	1.05051	185.39394	1.2465	-146.67166	6.406
Asta 235 (15-20)	265	massimi	630.00	-32.598	1.05051	-1.05517	1.2465	427.47149	-0.212
Asta 235 (15-20)	265	massimi	1260.00	-32.598	1.05051	-181.91556	1.2465	-159.96677	-6.236
Asta 235 (15-20)	265	minimi	0.00	-34.80515	0.95612	179.80523	1.13203	-152.99252	5.811
Asta 235 (15-20)	265	minimi	630.00	-34.80515	0.95612	-1.11965	1.13203	416.39104	-0.213
Asta 235 (15-20)	265	minimi	1260.00	-34.80515	0.95612	-187.63325	1.13203	-167.10016	-6.83
Asta 236 (30-15)	266	massimi	0.00	-13.28992	-1.42866	5.90903	-0.3738	-5.09091	-3.677
Asta 236 (30-15)	266	massimi	237.00	-13.28992	-1.42866	0.57653	-0.3738	2.53488	-0.291
Asta 236 (30-15)	266	massimi	474.00	-13.28992	-1.42866	-4.75597	-0.3738	-2.41776	3.34
Asta 236 (30-15)	266	minimi	0.00	-14.21468	-1.54729	5.87034	-0.41003	-5.1505	-3.995
Asta 236 (30-15)	266	minimi	237.00	-14.21468	-1.54729	0.53784	-0.41003	2.50279	-0.328
Asta 236 (30-15)	266	minimi	474.00	-14.21468	-1.54729	-4.79466	-0.41003	-2.54155	3.095
Asta 237 (15-170)	267	massimi	0.00	0.00	0.00	38.8466	0.00	-24.39853	0.00
Asta 237 (15-170)	267	massimi	65.00	0.00	0.00	19.4233	0.00	-6.09963	0.00
Asta 237 (15-170)	267	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 237 (15-170)	267	minimi	0.00	0.00	0.00	37.5362	0.00	-25.25029	0.00
Asta 237 (15-170)	267	minimi	65.00	0.00	0.00	18.7681	0.00	-6.31257	0.00
Asta 237 (15-170)	267	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 238 (35-20)	268	massimi	0.00	-19.53349	-1.20971	4.52735	-0.19582	-1.26707	-3.271
Asta 238 (35-20)	268	massimi	237.00	-19.53349	-1.20971	-0.80515	-0.19582	2.81997	-0.404
Asta 238 (35-20)	268	massimi	474.00	-19.53349	-1.20971	-6.13765	-0.19582	-5.45992	2.701
Asta 238 (35-20)	268	minimi	0.00	-20.89351	-1.32311	4.39074	-0.22293	-1.64349	-3.571
Asta 238 (35-20)	268	minimi	237.00	-20.89351	-1.32311	-0.94176	-0.22293	2.76731	-0.435
Asta 238 (35-20)	268	minimi	474.00	-20.89351	-1.32311	-6.27426	-0.22293	-5.73102	2.463

Asta 239 (20-180)	269	massimi	0.00	0.00	0.00	38.8466	0.00	-24.39853	0.00
Asta 239 (20-180)	269	massimi	65.00	0.00	0.00	19.4233	0.00	-6.09963	0.00
Asta 239 (20-180)	269	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 239 (20-180)	269	minimi	0.00	0.00	0.00	37.5362	0.00	-25.25029	0.00
Asta 239 (20-180)	269	minimi	65.00	0.00	0.00	18.7681	0.00	-6.31257	0.00
Asta 239 (20-180)	269	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 240 (30-35)	270	massimi	0.00	-27.51041	0.52497	184.6015	0.64764	-136.1869	3.249
Asta 240 (30-35)	270	massimi	630.00	-27.51041	0.52497	-1.8366	0.64764	433.3182	-0.051
Asta 240 (30-35)	270	massimi	1260.00	-27.51041	0.52497	-182.69699	0.64764	-159.32803	-3.057
Asta 240 (30-35)	270	minimi	0.00	-29.49471	0.47717	179.0238	0.57637	-142.15344	2.955
Asta 240 (30-35)	270	minimi	630.00	-29.49471	0.47717	-1.91209	0.57637	421.95279	-0.058
Asta 240 (30-35)	270	minimi	1260.00	-29.49471	0.47717	-188.42569	0.57637	-166.24581	-3.366
Asta 241 (45-30)	271	massimi	0.00	-12.56967	-0.01211	5.8324	-0.06121	-5.2442	-0.647
Asta 241 (45-30)	271	massimi	237.00	-12.56967	-0.01211	0.4999	-0.06121	2.17554	-0.619
Asta 241 (45-30)	271	massimi	474.00	-12.56967	-0.01211	-4.83261	-0.06121	-2.95872	-0.59
Asta 241 (45-30)	271	minimi	0.00	-13.46337	-0.02439	5.79388	-0.06745	-5.32822	-0.72
Asta 241 (45-30)	271	minimi	237.00	-13.46337	-0.02439	0.46138	-0.06745	2.16829	-0.662
Asta 241 (45-30)	271	minimi	474.00	-13.46337	-0.02439	-4.87112	-0.06745	-3.05725	-0.604
Asta 242 (30-190)	272	massimi	0.00	0.00	0.00	38.8466	0.00	-24.39853	0.00
Asta 242 (30-190)	272	massimi	65.00	0.00	0.00	19.4233	0.00	-6.09963	0.00
Asta 242 (30-190)	272	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 242 (30-190)	272	minimi	0.00	0.00	0.00	37.5362	0.00	-25.25029	0.00
Asta 242 (30-190)	272	minimi	65.00	0.00	0.00	18.7681	0.00	-6.31257	0.00
Asta 242 (30-190)	272	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 243 (50-35)	273	massimi	0.00	-19.42312	0.16188	5.82318	-0.06262	-5.04252	-0.169
Asta 243 (50-35)	273	massimi	237.00	-19.42312	0.16188	0.49068	-0.06262	2.35857	-0.553
Asta 243 (50-35)	273	massimi	474.00	-19.42312	0.16188	-4.84182	-0.06262	-2.79753	-0.936
Asta 243 (50-35)	273	minimi	0.00	-20.85438	0.16009	5.77774	-0.0692	-5.12335	-0.219
Asta 243 (50-35)	273	minimi	237.00	-20.85438	0.16009	0.44524	-0.0692	2.33172	-0.598
Asta 243 (50-35)	273	minimi	474.00	-20.85438	0.16009	-4.88726	-0.0692	-2.93207	-0.977
Asta 244 (35-185)	274	massimi	0.00	0.00	0.00	38.8466	0.00	-24.39853	0.00
Asta 244 (35-185)	274	massimi	65.00	0.00	0.00	19.4233	0.00	-6.09963	0.00
Asta 244 (35-185)	274	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 244 (35-185)	274	minimi	0.00	0.00	0.00	37.5362	0.00	-25.25029	0.00
Asta 244 (35-185)	274	minimi	65.00	0.00	0.00	18.7681	0.00	-6.31257	0.00

Asta 244 (35-185)	274	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 245 (45-50)	275	massimi	0.00	-27.51472	-0.32735	184.37811	0.26315	-134.91769	-2.208
Asta 245 (45-50)	275	massimi	630.00	-27.51472	-0.32735	-2.04505	0.26315	433.26355	-0.146
Asta 245 (45-50)	275	massimi	1260.00	-27.51472	-0.32735	-182.90545	0.26315	-160.6853	1.995
Asta 245 (45-50)	275	minimi	0.00	-29.51598	-0.34061	178.81535	0.23306	-140.80072	-2.296
Asta 245 (45-50)	275	minimi	630.00	-29.51598	-0.34061	-2.13549	0.23306	421.90876	-0.15
Asta 245 (45-50)	275	minimi	1260.00	-29.51598	-0.34061	-188.64908	0.23306	-167.70783	1.916
Asta 246 (75-45)	276	massimi	0.00	-10.84163	1.03663	5.7285	0.12998	-4.8681	2.124
Asta 246 (75-45)	276	massimi	237.00	-10.84163	1.03663	0.396	0.12998	2.32512	-0.295
Asta 246 (75-45)	276	massimi	474.00	-10.84163	1.03663	-4.9365	0.12998	-3.05538	-2.628
Asta 246 (75-45)	276	minimi	0.00	-11.60418	0.98426	5.69351	0.12385	-4.93241	2.038
Asta 246 (75-45)	276	minimi	237.00	-11.60418	0.98426	0.36101	0.12385	2.3065	-0.333
Asta 246 (75-45)	276	minimi	474.00	-11.60418	0.98426	-4.97149	0.12385	-3.15692	-2.79
Asta 247 (45-195)	277	massimi	0.00	0.00	0.00	38.8466	0.00	-24.39853	0.00
Asta 247 (45-195)	277	massimi	65.00	0.00	0.00	19.4233	0.00	-6.09963	0.00
Asta 247 (45-195)	277	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 247 (45-195)	277	minimi	0.00	0.00	0.00	37.5362	0.00	-25.25029	0.00
Asta 247 (45-195)	277	minimi	65.00	0.00	0.00	18.7681	0.00	-6.31257	0.00
Asta 247 (45-195)	277	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 248 (80-50)	278	massimi	0.00	-17.09405	1.3107	6.23844	-0.00605	-5.78511	2.775
Asta 248 (80-50)	278	massimi	237.00	-17.09405	1.3107	0.90594	-0.00605	2.50797	-0.306
Asta 248 (80-50)	278	massimi	474.00	-17.09405	1.3107	-4.42656	-0.00605	-1.66397	-3.231
Asta 248 (80-50)	278	minimi	0.00	-18.27926	1.23433	6.15289	-0.00876	-5.95811	2.619
Asta 248 (80-50)	278	minimi	237.00	-18.27926	1.23433	0.82039	-0.00876	2.47823	-0.332
Asta 248 (80-50)	278	minimi	474.00	-18.27926	1.23433	-4.51211	-0.00876	-1.89645	-3.438
Asta 249 (50-200)	279	massimi	0.00	0.00	0.00	38.8466	0.00	-24.39853	0.00
Asta 249 (50-200)	279	massimi	65.00	0.00	0.00	19.4233	0.00	-6.09963	0.00
Asta 249 (50-200)	279	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 249 (50-200)	279	minimi	0.00	0.00	0.00	37.5362	0.00	-25.25029	0.00
Asta 249 (50-200)	279	minimi	65.00	0.00	0.00	18.7681	0.00	-6.31257	0.00
Asta 249 (50-200)	279	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 250 (75-80)	280	massimi	0.00	-29.83991	-0.74236	184.84627	-0.12095	-141.76214	-4.807
Asta 250 (75-80)	280	massimi	630.00	-29.83991	-0.74236	-1.61642	-0.12095	429.01269	-0.13
Asta 250 (75-80)	280	massimi	1260.00	-29.83991	-0.74236	-182.47682	-0.12095	-162.12901	4.882
Asta 250 (75-80)	280	minimi	0.00	-31.90428	-0.79915	179.24398	-0.12769	-148.00098	-5.187

Asta 250 (75-80)	280	minimi	630.00	-31.90428	-0.79915	-1.66733	-0.12769	417.76468	-0.152
Asta 250 (75-80)	280	minimi	1260.00	-31.90428	-0.79915	-188.18092	-0.12769	-169.0093	4.547
Asta 251 (105-75)	281	massimi	0.00	-6.37229	1.59952	7.31421	1.92828	-8.3285	4.33
Asta 251 (105-75)	281	massimi	237.00	-6.37229	1.59952	1.98171	1.92828	2.25455	0.539
Asta 251 (105-75)	281	massimi	474.00	-6.37229	1.59952	-3.35079	1.92828	0.62824	-3.01
Asta 251 (105-75)	281	minimi	0.00	-6.72554	1.48539	7.13167	1.87491	-8.76506	4.031
Asta 251 (105-75)	281	minimi	237.00	-6.72554	1.48539	1.79917	1.87491	2.2506	0.511
Asta 251 (105-75)	281	minimi	474.00	-6.72554	1.48539	-3.53333	1.87491	0.19956	-3.252
Asta 252 (75-205)	282	massimi	0.00	0.00	0.00	38.8466	0.00	-24.39853	0.00
Asta 252 (75-205)	282	massimi	65.00	0.00	0.00	19.4233	0.00	-6.09963	0.00
Asta 252 (75-205)	282	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 252 (75-205)	282	minimi	0.00	0.00	0.00	37.5362	0.00	-25.25029	0.00
Asta 252 (75-205)	282	minimi	65.00	0.00	0.00	18.7681	0.00	-6.31257	0.00
Asta 252 (75-205)	282	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 253 (110-80)	283	massimi	0.00	-10.08147	1.26964	9.42752	-1.43596	-13.1229	3.024
Asta 253 (110-80)	283	massimi	237.00	-10.08147	1.26964	4.09502	-1.43596	2.1452	0.016
Asta 253 (110-80)	283	massimi	474.00	-10.08147	1.26964	-1.23748	-1.43596	5.52305	-2.717
Asta 253 (110-80)	283	minimi	0.00	-10.63634	1.15328	9.10849	-1.46357	-13.88735	2.749
Asta 253 (110-80)	283	minimi	237.00	-10.63634	1.15328	3.77599	-1.46357	2.13687	0.015
Asta 253 (110-80)	283	minimi	474.00	-10.63634	1.15328	-1.55652	-1.46357	4.77527	-2.994
Asta 254 (80-210)	284	massimi	0.00	0.00	0.00	38.8466	0.00	-24.39853	0.00
Asta 254 (80-210)	284	massimi	65.00	0.00	0.00	19.4233	0.00	-6.09963	0.00
Asta 254 (80-210)	284	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 254 (80-210)	284	minimi	0.00	0.00	0.00	37.5362	0.00	-25.25029	0.00
Asta 254 (80-210)	284	minimi	65.00	0.00	0.00	18.7681	0.00	-6.31257	0.00
Asta 254 (80-210)	284	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 255 (105-110)	285	massimi	0.00	-52.91577	-0.38609	123.30214	0.11797	-121.45072	-1.854
Asta 255 (105-110)	285	massimi	630.00	-52.91577	-0.38609	-1.5462	0.11797	258.34011	0.598
Asta 255 (105-110)	285	massimi	1260.00	-52.91577	-0.38609	-123.2559	0.11797	-140.93282	3.27
Asta 255 (105-110)	285	minimi	0.00	-54.91522	-0.42402	120.1635	0.10201	-124.98332	-2.073
Asta 255 (105-110)	285	minimi	630.00	-54.91522	-0.42402	-1.61216	0.10201	252.19377	0.579
Asta 255 (105-110)	285	minimi	1260.00	-54.91522	-0.42402	-126.52646	0.10201	-145.29654	3.011

Asta 256 (105-215)	286	massimi	0.00	0.00	0.00	25.9558	0.00	-16.39469	0.00
Asta 256 (105-215)	286	massimi	65.00	0.00	0.00	12.9779	0.00	-4.09867	0.00
Asta 256 (105-215)	286	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 256 (105-215)	286	minimi	0.00	0.00	0.00	25.2226	0.00	-16.87127	0.00
Asta 256 (105-215)	286	minimi	65.00	0.00	0.00	12.6113	0.00	-4.21782	0.00
Asta 256 (105-215)	286	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 257 (110-220)	287	massimi	0.00	0.00	0.00	25.9558	0.00	-16.39469	0.00
Asta 257 (110-220)	287	massimi	65.00	0.00	0.00	12.9779	0.00	-4.09867	0.00
Asta 257 (110-220)	287	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 257 (110-220)	287	minimi	0.00	0.00	0.00	25.2226	0.00	-16.87127	0.00
Asta 257 (110-220)	287	minimi	65.00	0.00	0.00	12.6113	0.00	-4.21782	0.00
Asta 257 (110-220)	287	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 258 (5-4)	288	massimi	0.00	-147.84739	63.16733	8.69111	0.95677	-10.69688	113.60
Asta 258 (5-4)	288	massimi	145.00	-154.37239	63.16733	8.69111	0.95677	1.31721	22.008
Asta 258 (5-4)	288	massimi	290.00	-160.89739	63.16733	8.69111	0.95677	13.91932	-69.279
Asta 258 (5-4)	288	minimi	0.00	-151.14122	62.50716	8.25996	0.92715	-11.28491	111.991
Asta 258 (5-4)	288	minimi	145.00	-157.66622	62.50716	8.25996	0.92715	1.28006	21.356
Asta 258 (5-4)	288	minimi	290.00	-164.19122	62.50716	8.25996	0.92715	13.257	-69.585
Asta 259 (10-9)	289	massimi	0.00	-152.71492	-65.38841	12.94676	-0.44094	-15.94818	-123.609
Asta 259 (10-9)	289	massimi	145.00	-159.23992	-65.38841	12.94676	-0.44094	1.88463	-28.796
Asta 259 (10-9)	289	massimi	290.00	-165.76492	-65.38841	12.94676	-0.44094	20.65743	66.017
Asta 259 (10-9)	289	minimi	0.00	-156.42299	-66.34418	12.23794	-0.45894	-16.88817	-126.45
Asta 259 (10-9)	289	minimi	145.00	-162.94799	-66.34418	12.23794	-0.45894	1.79683	-30.251
Asta 259 (10-9)	289	minimi	290.00	-169.47299	-66.34418	12.23794	-0.45894	19.54184	65.948
Asta 260 (15-14)	290	massimi	0.00	-225.03405	35.01516	3.8626	0.78521	-5.37146	125.78
Asta 260 (15-14)	290	massimi	145.00	-231.55905	35.01516	3.8626	0.78521	-0.26184	75.008
Asta 260 (15-14)	290	massimi	290.00	-238.08405	35.01516	3.8626	0.78521	5.32861	25.283
Asta 260 (15-14)	290	minimi	0.00	-231.6793	32.78232	3.52387	0.75533	-5.87293	120.352
Asta 260 (15-14)	290	minimi	145.00	-238.2043	32.78232	3.52387	0.75533	-0.27216	72.817
Asta 260	290	minimi	290.00	-244.7293	32.78232	3.52387	0.75533	4.84778	24.236

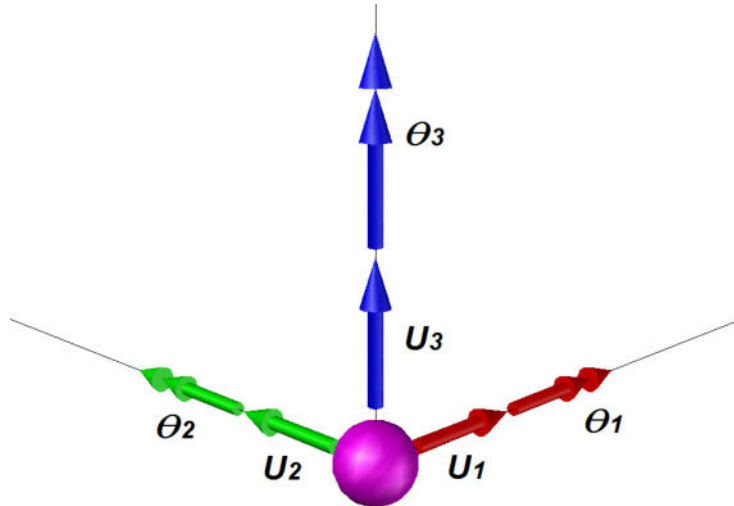
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Asta 261 (20-19)	291	massimi	0.00	-225.60575	-32.53944	9.60772	-1.04443	-12.72335	-133.97
Asta 261 (20-19)	291	massimi	145.00	-232.13075	-32.53944	9.60772	-1.04443	0.0645	-86.788
Asta 261 (20-19)	291	massimi	290.00	-238.65575	-32.53944	9.60772	-1.04443	13.99569	-39.561
Asta 261 (20-19)	291	minimi	0.00	-232.34732	-34.7087	8.80165	-1.07113	-13.8667	-140.216
Asta 261 (20-19)	291	minimi	145.00	-238.87232	-34.7087	8.80165	-1.07113	0.03904	-89.889
Asta 261 (20-19)	291	minimi	290.00	-245.39732	-34.7087	8.80165	-1.07113	12.80142	-39.606
Asta 262 (30-29)	292	massimi	0.00	-227.30146	31.0176	-1.19743	0.14121	1.54415	116.561
Asta 262 (30-29)	292	massimi	145.00	-233.82646	31.0176	-1.19743	0.14121	-0.27898	71.585
Asta 262 (30-29)	292	massimi	290.00	-240.35146	31.0176	-1.19743	0.14121	-2.01526	27.588
Asta 262 (30-29)	292	minimi	0.00	-234.18974	28.92696	-1.27627	0.13162	1.45729	111.476
Asta 262 (30-29)	292	minimi	145.00	-240.71474	28.92696	-1.27627	0.13162	-0.30645	69.532
Asta 262 (30-29)	292	minimi	290.00	-247.23974	28.92696	-1.27627	0.13162	-2.15704	26.61
Asta 263 (35-34)	293	massimi	0.00	-229.6478	-26.13882	0.48583	-0.72261	-0.71221	-135.063
Asta 263 (35-34)	293	massimi	145.00	-236.1728	-26.13882	0.48583	-0.72261	-0.17836	-97.161
Asta 263 (35-34)	293	massimi	290.00	-242.6978	-26.13882	0.48583	-0.72261	0.5261	-59.26
Asta 263 (35-34)	293	minimi	0.00	-236.50485	-28.01152	0.3668	-0.7722	-0.88282	-141.149
Asta 263 (35-34)	293	minimi	145.00	-243.02985	-28.01152	0.3668	-0.7722	-0.18035	-100.533
Asta 263 (35-34)	293	minimi	290.00	-249.55485	-28.01152	0.3668	-0.7722	0.35151	-59.916
Asta 264 (45-44)	294	massimi	0.00	-227.11693	30.577	-1.40069	0.22796	2.00969	115.353
Asta 264 (45-44)	294	massimi	145.00	-233.64192	30.577	-1.40069	0.22796	-0.17678	71.016
Asta 264 (45-44)	294	massimi	290.00	-240.16692	30.577	-1.40069	0.22796	-2.20778	27.652
Asta 264 (45-44)	294	minimi	0.00	-233.99361	28.51109	-1.51858	0.2267	1.85422	110.334
Asta 264 (45-44)	294	minimi	145.00	-240.51861	28.51109	-1.51858	0.2267	-0.19226	68.993
Asta 264 (45-44)	294	minimi	290.00	-247.04361	28.51109	-1.51858	0.2267	-2.3942	26.68
Asta 265 (50-49)	295	massimi	0.00	-230.7315	-26.44228	-2.65641	-1.14608	3.72253	-136.341
Asta 265 (50-49)	295	massimi	145.00	-237.2565	-26.44228	-2.65641	-1.14608	-0.47267	-97.999
Asta 265 (50-49)	295	massimi	290.00	-243.7815	-26.44228	-2.65641	-1.14608	-4.32447	-59.658
Asta 265 (50-49)	295	minimi	0.00	-237.74543	-28.36538	-2.91574	-1.2239	3.37913	-142.521
Asta 265 (50-49)	295	minimi	145.00	-244.27043	-28.36538	-2.91574	-1.2239	-0.50529	-101.391
Asta 265 (50-49)	295	minimi	290.00	-250.79542	-28.36538	-2.91574	-1.2239	-4.73311	-60.261
Asta 266 (75-74)	296	massimi	0.00	-226.00702	32.46717	-3.72698	-0.18876	5.6816	120.952
Asta 266 (75-74)	296	massimi	145.00	-232.53202	32.46717	-3.72698	-0.18876	-0.20877	73.875
Asta 266 (75-74)	296	massimi	290.00	-239.05702	32.46717	-3.72698	-0.18876	-5.6129	27.624
Asta 266 (75-74)	296	minimi	0.00	-232.77216	30.34104	-4.07949	-0.24089	5.19535	115.613
Asta 266	296	minimi	145.00	-239.29716	30.34104	-4.07949	-0.24089	-0.23366	71.618

(75-74)									
Asta 266 (75-74)	296	minimi	290.00	-245.82216	30.34104	-4.07949	-0.24089	-6.14893	26.798
Asta 267 (80-79)	297	massimi	0.00	-227.72242	-29.92096	-7.75493	-0.78938	11.36022	-136.303
Asta 267 (80-79)	297	massimi	145.00	-234.24742	-29.92096	-7.75493	-0.78938	-0.81196	-92.918
Asta 267 (80-79)	297	massimi	290.00	-240.77242	-29.92096	-7.75493	-0.78938	-12.05661	-49.533
Asta 267 (80-79)	297	minimi	0.00	-234.50344	-31.94533	-8.44206	-0.88604	10.4327	-142.301
Asta 267 (80-79)	297	minimi	145.00	-241.02844	-31.94533	-8.44206	-0.88604	-0.88078	-95.981
Asta 267 (80-79)	297	minimi	290.00	-247.55344	-31.94533	-8.44206	-0.88604	-13.12177	-49.66
Asta 268 (105-104)	298	massimi	0.00	-152.51777	53.3157	-5.9862	-2.17728	8.64709	110.04
Asta 268 (105-104)	298	massimi	145.00	-159.04277	53.3157	-5.9862	-2.17728	-0.45351	32.733
Asta 268 (105-104)	298	massimi	290.00	-165.56777	53.3157	-5.9862	-2.17728	-9.1335	-42.217
Asta 268 (105-104)	298	minimi	0.00	-156.57215	51.43038	-6.30152	-2.25713	8.22649	106.931
Asta 268 (105-104)	298	minimi	145.00	-163.09715	51.43038	-6.30152	-2.25713	-0.49011	32.357
Asta 268 (105-104)	298	minimi	290.00	-169.62215	51.43038	-6.30152	-2.25713	-9.62732	-44.575
Asta 269 (110-109)	299	massimi	0.00	-157.58698	-54.06905	-10.46756	0.26161	14.00532	-125.974
Asta 269 (110-109)	299	massimi	145.00	-164.11198	-54.06905	-10.46756	0.26161	-1.95305	-47.574
Asta 269 (110-109)	299	massimi	290.00	-170.63698	-54.06905	-10.46756	0.26161	-17.13101	33.047
Asta 269 (110-109)	299	minimi	0.00	-161.90978	-56.18486	-11.06036	0.24521	13.22491	-129.889
Asta 269 (110-109)	299	minimi	145.00	-168.43478	-56.18486	-11.06036	0.24521	-2.03221	-48.421
Asta 269 (110-109)	299	minimi	290.00	-174.95978	-56.18486	-11.06036	0.24521	-18.06973	30.826

1.4.7 Stato limite esercizio quasi permanenti (SLE Quasi Permanenti)

1.4.7.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	0.001457	0.013151	-6.757865	0.000133497113142	0.000094363825337	-0.000001760436679
1	minimi	0.001457	0.013151	-6.757865	0.000133497113142	0.000094363825337	-0.000001760436679
2	massimi	-0.019775	0.043187	-6.757865	0.000133497113139	0.000094363825334	-0.000001760436678
2	minimi	-0.019775	0.043187	-6.757865	0.000133497113139	0.000094363825334	-0.000001760436678
3	massimi	-0.02116	0.044651	-6.619802	0.000081008236111	0.000183443145383	-0.00000132604692
3	minimi	-0.02116	0.044651	-6.619802	0.000081008236111	0.000183443145383	-0.00000132604692
4	massimi	-0.021345	0.041044	-6.843851	0.000080233475463	-0.000004271506668	-0.000001569384085
4	minimi	-0.021345	0.041044	-6.843851	0.000080233475463	-0.000004271506668	-0.000001569384085
5	massimi	-0.017942	0.040994	-6.561535	0.000176774555575	-0.000003031819511	-0.000001615829678
5	minimi	-0.017942	0.040994	-6.561535	0.000176774555575	-0.000003031819511	-0.000001615829678
6	massimi	-0.018127	0.044701	-6.337486	0.000175999794926	0.000182203458226	-0.000001372492513
6	minimi	-0.018127	0.044701	-6.337486	0.000175999794926	0.000182203458226	-0.000001372492513
7	massimi	0.233873	-0.059001	-6.929344	0.000207024002199	0.000220415325089	0.00001246445399
7	minimi	0.233873	-0.059001	-6.929344	0.000207024002199	0.000220415325089	0.00001246445399
8	massimi	0.386696	-0.086894	-7.017316	-0.000043821557054	0.000027627183945	0.00002171119641
8	minimi	0.386696	-0.086894	-7.017316	-0.000043821557054	0.000027627183945	0.00002171119641
9	massimi	0.508255	-0.185332	-7.077322	0.000258798473481	0.000198685189242	0.000028203590024
9	minimi	0.508255	-0.185332	-7.077322	0.000258798473481	0.000198685189242	0.000028203590024
10	massimi	0.854283	-0.387737	-7.160331	0.000167023259399	0.000581469921967	0.000085658993154
10	minimi	0.854283	-0.387737	-7.160331	0.000167023259399	0.000581469921967	0.000085658993154
11	massimi	0.047851	0.054879	-7.133422	0.000139888047333	0.000044787024683	0.000005419964465
11	minimi	0.047851	0.054879	-7.133422	0.000139888047333	0.000044787024683	0.000005419964465
12	massimi	0.037773	0.086354	-7.133422	0.000139888047333	0.000044787024683	0.000005419964462
12	minimi	0.037773	0.086354	-7.133422	0.000139888047333	0.000044787024683	0.000005419964462
13	massimi	0.042661	0.080093	-7.050253	0.000083886821027	0.000142383918402	0.000004727592458
13	minimi	0.042661	0.080093	-7.050253	0.000083886821027	0.000142383918402	0.000004727592458
14	massimi	0.042291	0.091256	-7.156591	0.000083519103998	-0.000057345342546	0.000004241034297
14	minimi	0.042291	0.091256	-7.156591	0.000083519103998	-0.000057345342546	0.000004241034297
15	massimi	0.032753	0.091352	-6.86076	0.000185792757395	-0.000056046305051	0.000004329751574
15	minimi	0.032753	0.091352	-6.86076	0.000185792757395	-0.000056046305051	0.000004329751574
16	massimi	0.032384	0.079997	-6.754422	0.000185425040366	0.000141084880907	0.000004816309736
16	minimi	0.032384	0.079997	-6.754422	0.000185425040366	0.000141084880907	0.000004816309736
17	massimi	0.243314	0.161479	-7.314927	0.000254227133932	-0.000044892173882	0.000068846012967
17	minimi	0.243314	0.161479	-7.314927	0.000254227133932	-0.000044892173882	0.000068846012967
18	massimi	0.480356	0.248881	-7.406849	-0.000128548988014	0.000198812078467	0.00012026106313
18	minimi	0.480356	0.248881	-7.406849	-0.000128548988014	0.000198812078467	0.00012026106313
19	massimi	0.655193	0.149675	-7.469629	0.000386656216856	0.000017655586353	0.000156360991967
19	minimi	0.655193	0.149675	-7.469629	0.000386656216856	0.000017655586353	0.000156360991967
20	massimi	0.779381	-0.169914	-7.555255	0.000257830746058	-0.000498485178877	0.000128801027639
20	minimi	0.779381	-0.169914	-7.555255	0.000257830746058	-0.000498485178877	0.000128801027639
21	massimi	-0.01195	0.008648	-8.379189	0.000063907989978	0.000156419225469	0.000001657977675
21	minimi	-0.01195	0.008648	-8.379189	0.000063907989978	0.000156419225469	0.000001657977675
22	massimi	-0.047145	0.023028	-8.379189	0.000063907989977	0.000156419225463	0.000001657977674
22	minimi	-0.047145	0.023028	-8.379189	0.000063907989977	0.000156419225463	0.000001657977674
23	massimi	-0.045266	0.021064	-8.047598	0.000001023679317	0.000267839353745	0.000001505566161
23	minimi	-0.045266	0.021064	-8.047598	0.000001023679317	0.000267839353745	0.000001505566161

24	massimi	-0.045365	0.024629	-8.418985	-0.000000260578291	0.000029158874691	0.000001375818168
24	minimi	-0.045365	0.024629	-8.418985	-0.000000260578291	0.000029158874691	0.000001375818168
25	massimi	-0.048297	0.024508	-8.283835	0.00012329594801	0.000029752340067	0.000001265090563
25	minimi	-0.048297	0.024508	-8.283835	0.00012329594801	0.000029752340067	0.000001265090563
26	massimi	-0.048396	0.021185	-7.912448	0.000122011690402	0.00026724588837	0.000001394838556
26	minimi	-0.048396	0.021185	-7.912448	0.000122011690402	0.00026724588837	0.000001394838556
27	massimi	0.531692	-0.057135	-8.599393	0.000104690652249	0.000466340637897	0.000046059905217
27	minimi	0.531692	-0.057135	-8.599393	0.000104690652249	0.000466340637897	0.000046059905217
28	massimi	0.796784	-0.117251	-8.700691	0.000008380977967	-0.000067875034818	0.000083805657057
28	minimi	0.796784	-0.117251	-8.700691	0.000008380977967	-0.000067875034818	0.000083805657057
29	massimi	0.697306	-0.183932	-8.770053	0.000116864507478	-0.00002543930342	0.000110307993456
29	minimi	0.697306	-0.183932	-8.770053	0.000116864507478	-0.00002543930342	0.000110307993456
30	massimi	2.10423	-0.372996	-8.894566	0.000135637272172	0.001279732899689	0.000157460613278
30	minimi	2.10423	-0.372996	-8.894566	0.000135637272172	0.001279732899689	0.000157460613278
31	massimi	0.048595	0.049409	-10.393546	0.000094698831549	0.000127270912	0.000005183924467
31	minimi	0.048595	0.049409	-10.393546	0.000094698831549	0.000127270912	0.000005183924467
32	massimi	0.019959	0.070717	-10.393546	0.000094698831548	0.000127270911997	0.000005183924465
32	minimi	0.019959	0.070717	-10.393546	0.000094698831548	0.000127270911997	0.000005183924465
33	massimi	0.024716	0.064801	-10.071622	0.000014077626949	0.000272371721569	0.000004507233507
33	minimi	0.024716	0.064801	-10.071622	0.000014077626949	0.000272371721569	0.000004507233507
34	massimi	0.024413	0.075519	-10.373802	0.000013032688557	-0.000030718314566	0.000004108784498
34	minimi	0.024413	0.075519	-10.373802	0.000013032688557	-0.000030718314566	0.000004108784498
35	massimi	0.01524	0.07557	-10.173536	0.000169281090802	-0.00002983891611	0.000004155662281
35	minimi	0.01524	0.07557	-10.173536	0.000169281090802	-0.00002983891611	0.000004155662281
36	massimi	0.014937	0.06475	-9.871356	0.00016823615241	0.000271492323112	0.000004554111291
36	minimi	0.014937	0.06475	-9.871356	0.00016823615241	0.000271492323112	0.000004554111291
37	massimi	0.539928	0.164435	-10.675727	0.000220736732713	0.00014310081558	0.000099304107469
37	minimi	0.539928	0.164435	-10.675727	0.000220736732713	0.00014310081558	0.000099304107469
38	massimi	1.271282	0.204756	-10.790018	-0.000100531442674	0.000568795998331	0.000189792868882
38	minimi	1.271282	0.204756	-10.790018	-0.000100531442674	0.000568795998331	0.000189792868882
39	massimi	2.084376	0.153456	-10.868502	0.000258664281355	0.000630560010666	0.00025332753115
39	minimi	2.084376	0.153456	-10.868502	0.000258664281355	0.000630560010666	0.00025332753115
40	massimi	2.066151	-0.150357	-10.993324	0.000255865385456	-0.000925026450856	0.000190608194102
40	minimi	2.066151	-0.150357	-10.993324	0.000255865385456	-0.000925026450856	0.000190608194102
41	massimi	0.065339	0.138467	-10.613823	-0.000099271012867	0.000075441489788	0.0000178578145
41	minimi	0.065339	0.138467	-10.613823	-0.000099271012867	0.000075441489788	0.0000178578145
42	massimi	0.054023	0.123576	-10.613823	-0.000099271012866	0.000075441489789	0.000017857814495
42	minimi	0.054023	0.123576	-10.613823	-0.000099271012866	0.000075441489789	0.000017857814495
43	massimi	0.06456	0.112588	-10.404669	-0.000165658977962	0.000142161113813	0.000016495147265
43	minimi	0.06456	0.112588	-10.404669	-0.000165658977962	0.000142161113813	0.000016495147265
44	massimi	0.064368	0.133744	-10.501216	-0.000165858787525	0.000006422069262	0.000016089473812
44	minimi	0.064368	0.133744	-10.501216	-0.000165858787525	0.000006422069262	0.000016089473812
45	massimi	0.04332	0.133828	-10.628259	-0.000029657010479	0.00000615914633	0.00001626682025
45	minimi	0.04332	0.133828	-10.628259	-0.000029657010479	0.00000615914633	0.00001626682025
46	massimi	0.043128	0.112504	-10.531712	-0.000029856820042	0.000142424036746	0.000016672493702
46	minimi	0.043128	0.112504	-10.531712	-0.000029856820042	0.000142424036746	0.000016672493702
47	massimi	0.541481	1.013429	-10.782047	0.000503688677158	-0.000244643297564	0.000100256732901
47	minimi	0.541481	1.013429	-10.782047	0.000503688677158	-0.000244643297564	0.000100256732901
48	massimi	1.834916	2.081567	-10.837985	-0.000971190001056	0.000894151099852	0.000211908745279
48	minimi	1.834916	2.081567	-10.837985	-0.000971190001056	0.000894151099852	0.000211908745279
49	massimi	2.060195	2.681983	-10.875584	0.000391183910898	-0.000910965564785	0.000290302711417
49	minimi	2.060195	2.681983	-10.875584	0.000391183910898	-0.000910965564785	0.000290302711417
50	massimi	-0.000133	0.003087	-8.576303	0.000013177026003	0.000232345745675	0.000001204533245
50	minimi	-0.000133	0.003087	-8.576303	0.000013177026003	0.000232345745675	0.000001204533245
51	massimi	-0.052411	0.006052	-8.576303	0.000013177026003	0.000232345745667	0.000001204533245
51	minimi	-0.052411	0.006052	-8.576303	0.000013177026003	0.000232345745667	0.000001204533245
52	massimi	-0.050949	0.004686	-8.095308	-0.000049109381838	0.000342823262497	0.000001085050151
52	minimi	-0.050949	0.004686	-8.095308	-0.000049109381838	0.000342823262497	0.000001085050151
53	massimi	-0.050974	0.007323	-8.646968	-0.000051017023246	0.000098339098737	0.000001050949471
53	minimi	-0.050974	0.007323	-8.646968	-0.000051017023246	0.000098339098737	0.000001050949471
54	massimi	-0.05315	0.007189	-8.619101	0.000076385373379	0.000098461463855	0.000000927852789
54	minimi	-0.05315	0.007189	-8.619101	0.000076385373379	0.000098461463855	0.000000927852789
55	massimi	-0.053176	0.00482	-8.067441	0.000074477731971	0.00034270089738	0.000000961953469
55	minimi	-0.053176	0.00482	-8.067441	0.000074477731971	0.00034270089738	0.000000961953469
56	massimi	0.790687	-0.053669	-8.801836	0.000020988407112	0.00055905760918	0.000028305450515
56	minimi	0.790687	-0.053669	-8.801836	0.000020988407112	0.00055905760918	0.000028305450515
57	massimi	1.300812	-0.129301	-8.906059	0.000048255896781	0.000090967818505	0.000061412337957
57	minimi	1.300812	-0.129301	-8.906059	0.000048255896781	0.000090967818505	0.000061412337957
58	massimi	1.42305	-0.182744	-8.977474	0.000027187848811	0.00014715734211	0.000084657599353

58	minimi	1.42305	-0.182744	-8.977474	0.000027187848811	0.00014715734211	0.000084657599353
59	massimi	3.293545	-0.350759	-9.103207	0.0000471899119	0.001393441220448	0.000092561295484
59	minimi	3.293545	-0.350759	-9.103207	0.0000471899119	0.001393441220448	0.000092561295484
60	massimi	0.049195	0.038933	-11.531307	0.000002789828724	0.00017761770485	0.000002404183308
60	minimi	0.049195	0.038933	-11.531307	0.000002789828724	0.00017761770485	0.000002404183308
61	massimi	0.009231	0.03956	-11.531307	0.000002789828724	0.000177617704845	0.000002404183307
61	minimi	0.009231	0.03956	-11.531307	0.000002789828724	0.000177617704845	0.000002404183307
62	massimi	0.011452	0.036764	-11.019957	-0.000083487341644	0.000337851862872	0.000002109434216
62	minimi	0.011452	0.036764	-11.019957	-0.000083487341644	0.000337851862872	0.000002109434216
63	massimi	0.011283	0.041734	-11.441676	-0.000084945644692	-0.000000603367939	0.000001886533204
63	minimi	0.011283	0.041734	-11.441676	-0.000084945644692	-0.000000603367939	0.000001886533204
64	massimi	0.007057	0.041758	-11.435776	0.000090316610839	-0.000000577460849	0.000001908214881
64	minimi	0.007057	0.041758	-11.435776	0.000090316610839	-0.000000577460849	0.000001908214881
65	massimi	0.006888	0.03674	-11.014057	0.000088858307791	0.000337825955783	0.000002131115894
65	minimi	0.006888	0.03674	-11.014057	0.000088858307791	0.000337825955783	0.000002131115894
66	massimi	0.801473	0.170725	-11.849018	0.000048963225432	0.000359186713113	0.000063260054521
66	minimi	0.801473	0.170725	-11.849018	0.000048963225432	0.000359186713113	0.000063260054521
67	massimi	1.850265	0.191501	-11.97751	-0.000023629821113	0.000726385232265	0.000110638526428
67	minimi	1.850265	0.191501	-11.97751	-0.000023629821113	0.000726385232265	0.000110638526428
68	massimi	2.917692	0.159518	-12.065965	0.000095473134992	0.000876058613941	0.000143904262023
68	minimi	2.917692	0.159518	-12.065965	0.000095473134992	0.000876058613941	0.000143904262023
69	massimi	3.261409	-0.117673	-12.19296	0.000108403552704	-0.000865459376904	0.000100510949234
69	minimi	3.261409	-0.117673	-12.19296	0.000108403552704	-0.000865459376904	0.000100510949234
70	massimi	0.073495	0.113214	-13.035351	-0.000001371365194	0.000249116442767	0.000004796672997
70	minimi	0.073495	0.113214	-13.035351	-0.000001371365194	0.000249116442767	0.000004796672997
71	massimi	0.036127	0.113008	-13.035351	-0.000001371365194	0.000249116442764	0.000004796672995
71	minimi	0.036127	0.113008	-13.035351	-0.000001371365194	0.000249116442764	0.000004796672995
72	massimi	0.038948	0.109809	-12.754167	-0.000085465445332	0.000329762410805	0.000004526183433
72	minimi	0.038948	0.109809	-12.754167	-0.000085465445332	0.000329762410805	0.000004526183433
73	massimi	0.038772	0.115458	-13.072976	-0.000086125239402	0.000160876283181	0.000004155201078
73	minimi	0.038772	0.115458	-13.072976	-0.000086125239402	0.000160876283181	0.000004155201078
74	massimi	0.033242	0.115514	-13.074731	0.000083424314403	0.00016087265107	0.000004273798496
74	minimi	0.033242	0.115514	-13.074731	0.000083424314403	0.00016087265107	0.000004273798496
75	massimi	0.033067	0.109753	-12.755922	0.000082764520333	0.000329766042916	0.000004644780851
75	minimi	0.033067	0.109753	-12.755922	0.000082764520333	0.000329766042916	0.000004644780851
76	massimi	0.806145	1.019311	-13.251559	0.000376469545608	-0.00035848163638	0.00005312063123
76	minimi	0.806145	1.019311	-13.251559	0.000376469545608	-0.00035848163638	0.00005312063123
77	massimi	2.538858	2.107095	-13.333358	-0.000927754073575	0.001222426900186	0.000133451312285
77	minimi	2.538858	2.107095	-13.333358	-0.000927754073575	0.001222426900186	0.000133451312285
78	massimi	2.886222	2.699433	-13.389114	0.000328987267785	-0.00117892929957	0.000189853705366
78	minimi	2.886222	2.699433	-13.389114	0.000328987267785	-0.00117892929957	0.000189853705366
79	massimi	-0.014404	-0.001165	-8.574783	0.000005319387733	0.000225344943467	-0.000004693156926
79	minimi	-0.014404	-0.001165	-8.574783	0.000005319387733	0.000225344943467	-0.000004693156926
80	massimi	-0.065107	0.000032	-8.574783	0.000005319387733	0.000225344943459	-0.000004693156924
80	minimi	-0.065107	0.000032	-8.574783	0.000005319387733	0.000225344943459	-0.000004693156924
81	massimi	-0.068963	0.004823	-8.093834	-0.00005668944066	0.000336116259591	-0.000003844834568
81	minimi	-0.068963	0.004823	-8.093834	-0.00005668944066	0.000336116259591	-0.000003844834568
82	massimi	-0.068964	-0.00476	-8.628871	-0.000058539602986	0.000091753452693	-0.000003845013393
82	minimi	-0.068964	-0.00476	-8.628871	-0.000058539602986	0.000091753452693	-0.000003845013393
83	massimi	-0.060384	-0.004926	-8.617622	0.000068780463896	0.000091802849841	-0.000003997928934
83	minimi	-0.060384	-0.004926	-8.617622	0.000068780463896	0.000091802849841	-0.000003997928934
84	massimi	-0.060385	0.004989	-8.082584	0.00006693030157	0.000336066862443	-0.000003997750109
84	minimi	-0.060385	0.004989	-8.082584	0.00006693030157	0.000336066862443	-0.000003997750109
85	massimi	0.769531	-0.049494	-8.800201	0.000014757380742	0.000564971155676	-0.000029041383038
85	minimi	0.769531	-0.049494	-8.800201	0.000014757380742	0.000564971155676	-0.000029041383038
86	massimi	1.309335	-0.127595	-8.904385	0.000052205604902	0.000114500872408	-0.000046742437934
86	minimi	1.309335	-0.127595	-8.904385	0.000052205604902	0.000114500872408	-0.000046742437934
87	massimi	1.466459	-0.180955	-8.975774	0.000020694405575	0.000175433981576	-0.000059170838179
87	minimi	1.466459	-0.180955	-8.975774	0.000020694405575	0.000175433981576	-0.000059170838179
88	massimi	3.410181	-0.329726	-9.101407	0.000033368788255	0.001412062438941	-0.000045481870143
88	minimi	3.410181	-0.329726	-9.101407	0.000033368788255	0.001412062438941	-0.000045481870143
89	massimi	0.030533	0.028409	-11.731373	-0.000041316643645	0.000175433276963	-0.000001696125277
89	minimi	0.030533	0.028409	-11.731373	-0.000041316643645	0.000175433276963	-0.000001696125277
90	massimi	-0.00894	0.019112	-11.731373	-0.000041316643644	0.000175433276958	-0.000001696125277
90	minimi	-0.00894	0.019112	-11.731373	-0.000041316643644	0.000175433276958	-0.000001696125277
91	massimi	-0.01039	0.020712	-11.170268	-0.000127588470479	0.000338757618622	-0.00000135286182
91	minimi	-0.01039	0.020712	-11.170268	-0.000127588470479	0.000338757618622	-0.00000135286182
92	massimi	-0.010471	0.017212	-11.5868	-0.000129028838616	-0.000005656767743	-0.000001460549651
92	minimi	-0.010471	0.017212	-11.5868	-0.000129028838616	-0.000005656767743	-0.000001460549651

93	massimi	-0.007289	0.017189	-11.674175	0.000049486215649	-0.000006040445049	-0.000001481546092
93	minimi	-0.007289	0.017189	-11.674175	0.000049486215649	-0.000006040445049	-0.000001481546092
94	massimi	-0.007371	0.020735	-11.257643	0.000048045847512	0.000339141295929	-0.000001373858261
94	minimi	-0.007371	0.020735	-11.257643	0.000048045847512	0.000339141295929	-0.000001373858261
95	massimi	0.777037	0.17842	-12.054262	-0.000015785574925	0.000397240787934	0.000030614288417
95	minimi	0.777037	0.17842	-12.054262	-0.000015785574925	0.000397240787934	0.000030614288417
96	massimi	1.860421	0.187768	-12.184431	0.000006447095552	0.000737031745358	0.000039685410894
96	minimi	1.860421	0.187768	-12.184431	0.000006447095552	0.000737031745358	0.000039685410894
97	massimi	2.953488	0.167717	-12.274065	0.000024232923952	0.000910127287543	0.000046054496889
97	minimi	2.953488	0.167717	-12.274065	0.000024232923952	0.000910127287543	0.000046054496889
98	massimi	3.37804	-0.085173	-12.401642	0.00005812129245	-0.000846409538533	-0.00002276877348
98	minimi	3.37804	-0.085173	-12.401642	0.00005812129245	-0.000846409538533	-0.00002276877348
99	massimi	0.058165	0.062196	-14.21129	-0.000283777545746	-0.000005118190841	0.000003573724109
99	minimi	0.058165	0.062196	-14.21129	-0.000283777545746	-0.000005118190841	0.000003573724109
100	massimi	0.058933	0.01963	-14.21129	-0.000283777545742	-0.000005118190839	0.000003573724108
100	minimi	0.058933	0.01963	-14.21129	-0.000283777545742	-0.000005118190839	0.000003573724108
101	massimi	0.060878	0.017485	-13.900646	-0.000371889255083	0.000087014364825	0.000003213667163
101	minimi	0.060878	0.017485	-13.900646	-0.000371889255083	0.000087014364825	0.000003213667163
102	massimi	0.060848	0.021644	-13.894096	-0.000371875699366	-0.000097094720987	0.000003149226838
102	minimi	0.060848	0.021644	-13.894096	-0.000371875699366	-0.000097094720987	0.000003149226838
103	massimi	0.056628	0.021736	-14.257263	-0.000187028573995	-0.000097846316264	0.000003342691296
103	minimi	0.056628	0.021736	-14.257263	-0.000187028573995	-0.000097846316264	0.000003342691296
104	massimi	0.056597	0.017394	-14.263813	-0.000187015018278	0.000087765960102	0.000003407131621
104	minimi	0.056597	0.017394	-14.263813	-0.000187015018278	0.000087765960102	0.000003407131621
105	massimi	0.777264	1.031939	-14.458137	0.000028321354325	-0.000225301229076	-0.000020893166676
105	minimi	0.777264	1.031939	-14.458137	0.000028321354325	-0.000225301229076	-0.000020893166676
106	massimi	2.476709	2.041945	-14.576231	-0.00018137714758	0.001108335938486	-0.000371750121004
106	minimi	2.476709	2.041945	-14.576231	-0.00018137714758	0.001108335938486	-0.000371750121004
107	massimi	2.915464	2.733632	-14.633169	-0.000070276107969	-0.001014869932911	-0.000000393880932
107	minimi	2.915464	2.733632	-14.633169	-0.000070276107969	-0.001014869932911	-0.000000393880932
108	massimi	0.071689	0.010279	-1.510419	-0.000443356483196	-0.001045701424253	0.000004946668996
108	minimi	0.071689	0.010279	-1.510419	-0.000443356483196	-0.001045701424253	0.000004946668996
109	massimi	1.053961	0.779266	-1.606811	-0.000139904060094	0.000930952595901	-0.000073656236023
109	minimi	1.053961	0.779266	-1.606811	-0.000139904060094	0.000930952595901	-0.000073656236023
110	massimi	1.517478	0.811046	-1.672996	0.000110418729866	-0.000892900238693	-0.000130492182729
110	minimi	1.517478	0.811046	-1.672996	0.000110418729866	-0.000892900238693	-0.000130492182729
111	massimi	0.070862	0.000841	-0.497272	-0.000194940495507	0.000292330361398	0.000005036990156
111	minimi	0.070862	0.000841	-0.497272	-0.000194940495507	0.000292330361398	0.000005036990156
112	massimi	1.689547	0.384948	-0.538993	-0.000068771525256	0.000519035830542	-0.000019533288044
112	minimi	1.689547	0.384948	-0.538993	-0.000068771525256	0.000519035830542	-0.000019533288044
113	massimi	1.508544	0.332519	-0.565646	0.000141149608931	-0.000938388521114	-0.000037299489203
113	minimi	1.508544	0.332519	-0.565646	0.000141149608931	-0.000938388521114	-0.000037299489203
114	massimi	0.070438	0.030216	-13.706035	-0.000132066238929	-0.002371783675269	-0.000007981438116
114	minimi	0.070438	0.030216	-13.706035	-0.000132066238929	-0.002371783675269	-0.000007981438116
115	massimi	0.605628	1.036614	-14.363199	-0.000161374536035	-0.00026968204372	-0.000098103153332
115	minimi	0.605628	1.036614	-14.363199	-0.000161374536035	-0.00026968204372	-0.000098103153332
116	massimi	1.543321	2.031733	-15.038013	-0.000116705164348	0.000317217026056	-0.000172696194473
116	minimi	1.543321	2.031733	-15.038013	-0.000116705164348	0.000317217026056	-0.000172696194473
117	massimi	-0.055995	-0.004762	-8.482416	-0.000016005242316	0.000131404050686	-0.000013389562674
117	minimi	-0.055995	-0.004762	-8.482416	-0.000016005242316	0.000131404050686	-0.000013389562674
118	massimi	-0.085561	-0.008363	-8.482416	-0.000016005242316	0.000131404050686	-0.000013389562668
118	minimi	-0.085561	-0.008363	-8.482416	-0.000016005242316	0.000131404050686	-0.000013389562668
119	massimi	-0.097248	0.0055	-8.093077	-0.000076847102403	0.000245362775052	-0.000011110774148
119	minimi	-0.097248	0.0055	-8.093077	-0.000076847102403	0.000245362775052	-0.000011110774148
120	massimi	-0.097212	-0.022096	-8.40507	-0.000077925976508	0.0000041383342	-0.000011063651175
120	minimi	-0.097212	-0.022096	-8.40507	-0.000077925976508	0.0000041383342	-0.000011063651175
121	massimi	-0.072772	-0.022314	-8.438918	0.000047112757277	0.000003989705567	-0.000011264606668
121	minimi	-0.072772	-0.022314	-8.438918	0.000047112757277	0.000003989705567	-0.000011264606668
122	massimi	-0.072736	0.005719	-8.126924	0.000046033883172	0.000245511403684	-0.000011311729641
122	minimi	-0.072736	0.005719	-8.126924	0.000046033883172	0.000245511403684	-0.000011311729641
123	massimi	0.462628	-0.044843	-8.705067	-0.000027883554395	0.000489821758921	-0.000060035868523
123	minimi	0.462628	-0.044843	-8.705067	-0.000027883554395	0.000489821758921	-0.000060035868523
124	massimi	0.843599	-0.132236	-8.807647	0.000073281669814	0.000024878383803	-0.00008163932918
124	minimi	0.843599	-0.132236	-8.807647	0.000073281669814	0.000024878383803	-0.00008163932918
125	massimi	0.884286	-0.178753	-8.877908	-0.000026255171718	0.000090707310566	-0.000096807716451
125	minimi	0.884286	-0.178753	-8.877908	-0.000026255171718	0.000090707310566	-0.000096807716451
126	massimi	2.627537	-0.311586	-9.002945	-0.000011287041686	0.001374386701615	-0.000111273424675
126	minimi	2.627537	-0.311586	-9.002945	-0.000011287041686	0.001374386701615	-0.000111273424675
127	massimi	0.000429	0.018509	-11.482505	-0.000094283339686	0.000093107368514	-0.000002418237595

127	minimi	0.000429	0.018509	-11.482505	-0.000094283339686	0.000093107368514	-0.000002418237595
128	massimi	-0.02052	-0.002704	-11.482505	-0.000094283339684	0.000093107368511	-0.000002418237594
128	minimi	-0.02052	-0.002704	-11.482505	-0.000094283339684	0.000093107368511	-0.000002418237594
129	massimi	-0.022599	-0.000197	-10.97023	-0.000176877773598	0.000256393110694	-0.000002004088981
129	minimi	-0.022599	-0.000197	-10.97023	-0.000176877773598	0.000256393110694	-0.000002004088981
130	massimi	-0.022588	-0.005169	-11.191296	-0.000177642217433	-0.000079607131364	-0.000001988851922
130	minimi	-0.022588	-0.005169	-11.191296	-0.000177642217433	-0.000079607131364	-0.000001988851922
131	massimi	-0.018179	-0.005221	-11.390683	-0.000053871658794	-0.000080482671453	-0.000002037046343
131	minimi	-0.018179	-0.005221	-11.390683	-0.000053871658794	-0.000080482671453	-0.000002037046343
132	massimi	-0.018167	-0.000145	-11.169618	-0.000004636102628	0.000257268650782	-0.000002052283401
132	minimi	-0.018167	-0.000145	-11.169618	-0.000004636102628	0.000257268650782	-0.000002052283401
133	massimi	0.459348	0.186456	-11.797835	-0.000119726682187	0.000282085324244	0.000005188224361
133	minimi	0.459348	0.186456	-11.797835	-0.000119726682187	0.000282085324244	0.000005188224361
134	massimi	1.302381	0.180717	-11.924607	0.000053716441352	0.000609722694744	-0.000023507740384
134	minimi	1.302381	0.180717	-11.924607	0.000053716441352	0.000609722694744	-0.000023507740384
135	massimi	2.248767	0.176621	-12.011856	-0.000083062051739	0.000821712870193	-0.00004365597095
135	minimi	2.248767	0.176621	-12.011856	-0.000083062051739	0.000821712870193	-0.00004365597095
136	massimi	2.59268	-0.05657	-12.137815	-0.000024848044335	-0.0008437444533	-0.000091059060786
136	minimi	2.59268	-0.05657	-12.137815	-0.000024848044335	-0.0008437444533	-0.000091059060786
137	massimi	0.042062	-0.002821	-13.296511	-0.000413039462727	-0.000534748228692	0.000007725340208
137	minimi	0.042062	-0.002821	-13.296511	-0.000413039462727	-0.000534748228692	0.000007725340208
138	massimi	0.122274	-0.064777	-13.296511	-0.000413039462721	-0.000534748228679	0.000007725340206
138	minimi	0.122274	-0.064777	-13.296511	-0.000413039462721	-0.000534748228679	0.000007725340206
139	massimi	0.126413	-0.069061	-13.250949	-0.000493670306494	-0.000440926090711	0.000006779435623
139	minimi	0.126413	-0.069061	-13.250949	-0.000493670306494	-0.000440926090711	0.000006779435623
140	massimi	0.126513	-0.060062	-12.5666	-0.000492254006124	-0.00061226883139	0.000006992083037
140	minimi	0.126513	-0.060062	-12.5666	-0.000492254006124	-0.00061226883139	0.000006992083037
141	massimi	0.117224	-0.059872	-13.095191	-0.000321233615592	-0.000613362781612	0.000007393482622
141	minimi	0.117224	-0.059872	-13.095191	-0.000321233615592	-0.000613362781612	0.000007393482622
142	massimi	0.117325	-0.069251	-13.77954	-0.000319817315222	-0.000439832140488	0.000007180835208
142	minimi	0.117325	-0.069251	-13.77954	-0.000319817315222	-0.000439832140488	0.000007180835208
143	massimi	0.451944	1.041448	-13.541575	-0.000521000915508	-0.000315586663158	0.000000874036869
143	minimi	0.451944	1.041448	-13.541575	-0.000521000915508	-0.000315586663158	0.000000874036869
144	massimi	1.722985	2.021911	-13.681072	-0.000484069106582	0.000924825134862	-0.000071340925533
144	minimi	1.722985	2.021911	-13.681072	-0.000484069106582	0.000924825134862	-0.000071340925533
145	massimi	2.197557	2.810431	-13.733793	-0.000578737140919	-0.001026276592419	0.00002027822722
145	minimi	2.197557	2.810431	-13.733793	-0.000578737140919	-0.001026276592419	0.00002027822722
146	massimi	0.061422	0.010317	-1.442729	0.000372513600419	-0.001018837787477	0.000000355478176
146	minimi	0.061422	0.010317	-1.442729	0.000372513600419	-0.001018837787477	0.000000355478176
147	massimi	0.974507	0.099941	-1.536301	-0.000320828297819	0.000903189663245	-0.000067793806581
147	minimi	0.974507	0.099941	-1.536301	-0.000320828297819	0.000903189663245	-0.000067793806581
148	massimi	1.506817	0.809821	-1.600448	-0.000371294788564	-0.000764597761919	-0.000017070981714
148	minimi	1.506817	0.809821	-1.600448	-0.000371294788564	-0.000764597761919	-0.000017070981714
149	massimi	0.061062	0.000995	-0.469122	0.000164926125981	0.000284408295656	-0.000000283249419
149	minimi	0.061062	0.000995	-0.469122	0.000164926125981	0.000284408295656	-0.000000283249419
150	massimi	1.672542	-0.036806	-0.509174	-0.000119664454183	0.000520195165517	-0.000024086838703
150	minimi	1.672542	-0.036806	-0.509174	-0.000119664454183	0.000520195165517	-0.000024086838703
151	massimi	1.496205	0.332688	-0.53462	-0.000264952348415	-0.000935220629387	-0.000041298664801
151	minimi	1.496205	0.332688	-0.53462	-0.000264952348415	-0.000935220629387	-0.000041298664801
152	massimi	0.058534	-0.015393	-12.760725	-0.000697466139226	-0.001916884030313	0.000016546588449
152	minimi	0.058534	-0.015393	-12.760725	-0.000697466139226	-0.001916884030313	0.000016546588449
153	massimi	0.444729	1.043118	-12.99852	-0.000676735792214	-0.000385960370259	-0.000017859636479
153	minimi	0.444729	1.043118	-12.99852	-0.000676735792214	-0.000385960370259	-0.000017859636479
154	massimi	1.538783	2.016883	-13.410099	-0.000278781560146	0.000536639759055	-0.000235345825918
154	minimi	1.538783	2.016883	-13.410099	-0.000278781560146	0.000536639759055	-0.000235345825918
155	massimi	-0.137614	-0.006857	-7.689825	-0.000098653890286	0.000065872460177	0.000004066418801
155	minimi	-0.137614	-0.006857	-7.689825	-0.000098653890286	0.000065872460177	0.000004066418801
156	massimi	-0.152435	-0.029054	-7.689825	-0.000098653890284	0.000065872460171	0.000004066418799
156	minimi	-0.152435	-0.029054	-7.689825	-0.000098653890284	0.000065872460171	0.000004066418799
157	massimi	-0.147767	-0.033244	-7.313512	-0.000150194744945	0.000170150164969	0.000003494867235
157	minimi	-0.147767	-0.033244	-7.313512	-0.000150194744945	0.000170150164969	0.000003494867235
158	massimi	-0.147642	-0.024407	-7.469913	-0.000150735581328	-0.000045076000232	0.000003658571229
158	minimi	-0.147642	-0.024407	-7.469913	-0.000150735581328	-0.000045076000232	0.000003658571229
159	massimi	-0.1552	-0.024797	-7.678544	-0.000039192436587	-0.000045992124618	0.000003300550318
159	minimi	-0.1552	-0.024797	-7.678544	-0.000039192436587	-0.000045992124618	0.000003300550318
160	massimi	-0.155076	-0.032854	-7.522143	-0.00003973327297	0.000171066289355	0.000003136846324
160	minimi	-0.155076	-0.032854	-7.522143	-0.00003973327297	0.000171066289355	0.000003136846324
161	massimi	0.199344	-0.039867	-7.885969	-0.000066007741972	0.00059252931887	0.00007560637396
161	minimi	0.199344	-0.039867	-7.885969	-0.000066007741972	0.00059252931887	0.00007560637396

162	massimi	0.731257	-0.139464	-7.973991	0.000093300967531	0.000102980364758	0.000109559970196
162	minimi	0.731257	-0.139464	-7.973991	0.000093300967531	0.000102980364758	0.000109559970196
163	massimi	0.904931	-0.175904	-8.034031	-0.000076867027545	0.000224075597244	0.000133399729256
163	minimi	0.904931	-0.175904	-8.034031	-0.000076867027545	0.000224075597244	0.000133399729256
164	massimi	1.749644	-0.300923	-8.119552	-0.00004435232287	0.000804039470772	0.000002651545912
164	minimi	1.749644	-0.300923	-8.119552	-0.00004435232287	0.000804039470772	0.000002651545912
165	massimi	-0.009926	0.011538	-9.877673	-0.000175310503727	-0.00000779726112	-0.00000193647595
165	minimi	-0.009926	0.011538	-9.877673	-0.000175310503727	-0.00000779726112	-0.00000193647595
166	massimi	-0.008171	-0.027907	-9.877673	-0.000175310503724	-0.00000779726112	-0.000001936475949
166	minimi	-0.008171	-0.027907	-9.877673	-0.000175310503724	-0.00000779726112	-0.000001936475949
167	massimi	-0.009947	-0.025686	-9.445316	-0.000242170428834	0.000134677917887	-0.00000168705401
167	minimi	-0.009947	-0.025686	-9.445316	-0.000242170428834	0.000134677917887	-0.00000168705401
168	massimi	-0.009827	-0.029688	-9.426803	-0.000242106410612	-0.00014948283038	-0.000001529814124
168	minimi	-0.009827	-0.029688	-9.426803	-0.000242106410612	-0.00014948283038	-0.000001529814124
169	massimi	-0.006407	-0.029709	-9.797545	-0.000095400610043	-0.000151110810195	-0.000001549005747
169	minimi	-0.006407	-0.029709	-9.797545	-0.000095400610043	-0.000151110810195	-0.000001549005747
170	massimi	-0.006287	-0.025665	-9.816058	-0.000095336591821	0.000136305897703	-0.000001706245632
170	minimi	-0.006287	-0.025665	-9.816058	-0.000095336591821	0.000136305897703	-0.000001706245632
171	massimi	0.13293	0.194598	-10.144242	-0.000239465507214	0.000026824065373	-0.000041938611352
171	minimi	0.13293	0.194598	-10.144242	-0.000239465507214	0.000026824065373	-0.000041938611352
172	massimi	0.454527	0.186731	-10.256749	0.000103431630945	0.000301671716741	-0.000077917996445
172	minimi	0.454527	0.186731	-10.256749	0.000103431630945	0.000301671716741	-0.000077917996445
173	massimi	0.952284	0.186021	-10.333981	-0.000173543661757	0.000445787084837	-0.000103180117893
173	minimi	0.952284	0.186021	-10.333981	-0.000173543661757	0.000445787084837	-0.000103180117893
174	massimi	1.687831	-0.039702	-10.422227	-0.000033518116302	-0.000406927189068	-0.000087470044127
174	minimi	1.687831	-0.039702	-10.422227	-0.000033518116302	-0.000406927189068	-0.000087470044127
175	massimi	0.02463	-0.068262	-8.948365	-0.000719763348624	-0.000171923796171	-0.000016573013822
175	minimi	0.02463	-0.068262	-8.948365	-0.000719763348624	-0.000171923796171	-0.000016573013822
176	massimi	0.050418	-0.176226	-8.948365	-0.000719763348613	-0.000171923796166	-0.000016573013817
176	minimi	0.050418	-0.176226	-8.948365	-0.000719763348613	-0.000171923796166	-0.000016573013817
177	massimi	0.040258	-0.165747	-8.516647	-0.000765711545154	-0.000113565111956	-0.000015574448108
177	minimi	0.040258	-0.165747	-8.516647	-0.000765711545154	-0.000113565111956	-0.000015574448108
178	massimi	0.040532	-0.185537	-8.296626	-0.00076525619865	-0.000225041468486	-0.000014995935461
178	minimi	0.040532	-0.185537	-8.296626	-0.00076525619865	-0.000225041468486	-0.000014995935461
179	massimi	0.05997	-0.185459	-9.21775	-0.000652328868897	-0.000226947788213	-0.00001483042257
179	minimi	0.05997	-0.185459	-9.21775	-0.000652328868897	-0.000226947788213	-0.00001483042257
180	massimi	0.060244	-0.165825	-9.437771	-0.000651873522393	-0.000111658792229	-0.000015408935216
180	minimi	0.060244	-0.165825	-9.437771	-0.000651873522393	-0.000111658792229	-0.000015408935216
181	massimi	0.121418	1.050146	-9.088995	-0.001301371497539	-0.000682148610035	-0.000170975096736
181	minimi	0.121418	1.050146	-9.088995	-0.001301371497539	-0.000682148610035	-0.000170975096736
182	massimi	0.955917	1.996672	-9.169763	-0.001147753352773	0.000705627832094	-0.00041657389112
182	minimi	0.955917	1.996672	-9.169763	-0.001147753352773	0.000705627832094	-0.00041657389112
183	massimi	0.904574	2.897222	-9.209047	-0.001192671483216	-0.001335784356193	-0.000431230322363
183	minimi	0.904574	2.897222	-9.209047	-0.001192671483216	-0.001335784356193	-0.000431230322363
184	massimi	-0.110223	0.040155	-12.243746	-0.000047813752851	0.000662656569915	0.000010295779165
184	minimi	-0.110223	0.040155	-12.243746	-0.000047813752851	0.000662656569915	0.000010295779165
185	massimi	-0.209621	0.032983	-12.243746	-0.00004781375285	0.000662656569897	0.000010295779161
185	minimi	-0.209621	0.032983	-12.243746	-0.00004781375285	0.000662656569897	0.000010295779161
186	massimi	-0.202778	0.026587	-11.675925	-0.000125276747801	0.000731562192182	0.000009842532372
186	minimi	-0.202778	0.026587	-11.675925	-0.000125276747801	0.000731562192182	0.000009842532372
187	massimi	-0.202829	0.039159	-12.523965	-0.000127031818121	0.000573550189838	0.000009734257509
187	minimi	-0.202829	0.039159	-12.523965	-0.000127031818121	0.000573550189838	0.000009734257509
188	massimi	-0.215024	0.038833	-12.585155	0.000032861891028	0.000573423553353	0.00000904611621
188	minimi	-0.215024	0.038833	-12.585155	0.000032861891028	0.000573423553353	0.00000904611621
189	massimi	-0.215075	0.026913	-11.737115	0.000031106820707	0.000731688828666	0.000009154391073
189	minimi	-0.215075	0.026913	-11.737115	0.000031106820707	0.000731688828666	0.000009154391073
190	massimi	0.185495	0.307037	-12.451403	0.000502052650128	0.001158235505984	0.000005520340772
190	minimi	0.185495	0.307037	-12.451403	0.000502052650128	0.001158235505984	0.000005520340772
191	massimi	0.41345	1.125293	-12.528455	-0.000559126024607	-0.000215628998856	0.000045302671666
191	minimi	0.41345	1.125293	-12.528455	-0.000559126024607	-0.000215628998856	0.000045302671666
192	massimi	0.921038	0.694961	-12.580878	0.001612141243021	0.001329839764573	0.000073234946549
192	minimi	0.921038	0.694961	-12.580878	0.001612141243021	0.001329839764573	0.000073234946549
193	massimi	-0.026928	0.01161	-11.429236	-0.000159551771923	-0.000463715164132	-0.000002626721065
193	minimi	-0.026928	0.01161	-11.429236	-0.000159551771923	-0.000463715164132	-0.000002626721065
194	massimi	0.042629	-0.012323	-11.429236	-0.00015955177192	-0.000463715164123	-0.000002626721064
194	minimi	0.042629	-0.012323	-11.429236	-0.00015955177192	-0.000463715164123	-0.000002626721064
195	massimi	0.040916	-0.010687	-11.518577	-0.000231272146078	-0.000383320170543	-0.000002499691499
195	minimi	0.040916	-0.010687	-11.518577	-0.000231272146078	-0.000383320170543	-0.000002499691499
196	massimi	0.040936	-0.013877	-10.925134	-0.000230043979394	-0.000529974030284	-0.000002459237395

196	minimi	0.040936	-0.013877	-10.925134	-0.000230043979394	-0.000529974030284	-0.000002459237395
197	massimi	0.044041	-0.013811	-11.129322	-0.000084195707596	-0.000530396609025	-0.00000231929406
197	minimi	0.044041	-0.013811	-11.129322	-0.000084195707596	-0.000530396609025	-0.00000231929406
198	massimi	0.04406	-0.010753	-11.722765	-0.000082967540912	-0.000382897591802	-0.000002359748165
198	minimi	0.04406	-0.010753	-11.722765	-0.000082967540912	-0.000382897591802	-0.000002359748165
199	massimi	0.141514	0.667092	-11.617953	0.000029561996092	-0.000866210168783	-0.000247675116796
199	minimi	0.141514	0.667092	-11.617953	0.000029561996092	-0.000866210168783	-0.000247675116796
200	massimi	0.81159	1.228365	-11.675922	-0.000384476901406	0.000769393461335	-0.000500132974029
200	minimi	0.81159	1.228365	-11.675922	-0.000384476901406	0.000769393461335	-0.000500132974029
201	massimi	0.932652	1.433456	-11.714945	0.000193125835504	-0.000985116600191	-0.000677390618469
201	minimi	0.932652	1.433456	-11.714945	0.000193125835504	-0.000985116600191	-0.000677390618469
202	massimi	-0.05748	0.017138	-12.07814	-0.000158413239593	-0.000333302814418	-0.000019886777401
202	minimi	-0.05748	0.017138	-12.07814	-0.000158413239593	-0.000333302814418	-0.000019886777401
203	massimi	-0.007484	-0.006624	-12.07814	-0.00015841323959	-0.000333302814413	-0.000019886777394
203	minimi	-0.007484	-0.006624	-12.07814	-0.00015841323959	-0.000333302814413	-0.000019886777394
204	massimi	-0.019291	0.005219	-12.078453	-0.000234384785195	-0.000250487572496	-0.000018240740431
204	minimi	-0.019291	0.005219	-12.078453	-0.000234384785195	-0.000250487572496	-0.000018240740431
205	massimi	-0.019281	-0.018423	-11.651905	-0.00023350202042	-0.000405957484889	-0.00001821899606
205	minimi	-0.019281	-0.018423	-11.651905	-0.00023350202042	-0.000405957484889	-0.00001821899606
206	massimi	0.004362	-0.018434	-11.854636	-0.000078495309504	-0.000406377048186	-0.00001824356481
206	minimi	0.004362	-0.018434	-11.854636	-0.000078495309504	-0.000406377048186	-0.00001824356481
207	massimi	0.004373	0.005231	-12.281183	-0.00007761254473	-0.000250068009199	-0.000018265309181
207	minimi	0.004373	0.005231	-12.281183	-0.00007761254473	-0.000250068009199	-0.000018265309181
208	massimi	-1.491996	0.305967	-12.277715	-0.000606085703128	-0.000097506926805	-0.000156034277958
208	minimi	-1.491996	0.305967	-12.277715	-0.000606085703128	-0.000097506926805	-0.000156034277958
209	massimi	-2.756122	-0.08608	-12.347981	0.000260805900705	-0.000872477718417	-0.000307418086904
209	minimi	-2.756122	-0.08608	-12.347981	0.000260805900705	-0.000872477718417	-0.000307418086904
210	massimi	-3.501908	0.723856	-12.395639	-0.001863808373113	-0.000072716773563	-0.000413708846377
210	minimi	-3.501908	0.723856	-12.395639	-0.001863808373113	-0.000072716773563	-0.000413708846377
211	massimi	-0.028486	-0.007362	-9.175622	-0.000354338891917	-0.000612177337117	-0.000011003997409
211	minimi	-0.028486	-0.007362	-9.175622	-0.000354338891917	-0.000612177337117	-0.000011003997409
212	massimi	0.06334	-0.060512	-9.175622	-0.000354338891911	-0.000612177337105	-0.000011003997405
212	minimi	0.06334	-0.060512	-9.175622	-0.000354338891911	-0.000612177337105	-0.000011003997405
213	massimi	0.056539	-0.053718	-9.257231	-0.000407983231062	-0.000545081040266	-0.000010297263768
213	minimi	0.056539	-0.053718	-9.257231	-0.000407983231062	-0.000545081040266	-0.000010297263768
214	massimi	0.056633	-0.066905	-8.473792	-0.000406361856847	-0.000660611710613	-0.000010098614795
214	minimi	0.056633	-0.066905	-8.473792	-0.000406361856847	-0.000660611710613	-0.000010098614795
215	massimi	0.069627	-0.066807	-8.92726	-0.000291514081115	-0.000661550190213	-0.000009890682838
215	minimi	0.069627	-0.066807	-8.92726	-0.000291514081115	-0.000661550190213	-0.000009890682838
216	massimi	0.069721	-0.053817	-9.7107	-0.000289892706901	-0.000544142560666	-0.000010089331811
216	minimi	0.069721	-0.053817	-9.7107	-0.000289892706901	-0.000544142560666	-0.000010089331811
217	massimi	-1.499823	0.674431	-9.313195	-0.000716680681757	-0.000975863429132	0.000035885161583
217	minimi	-1.499823	0.674431	-9.313195	-0.000716680681757	-0.000975863429132	0.000035885161583
218	massimi	-2.775043	1.074717	-9.38982	-0.000029186517147	-0.000516082866521	0.000023018841665
218	minimi	-2.775043	1.074717	-9.38982	-0.000029186517147	-0.000516082866521	0.000023018841665
219	massimi	-3.519408	1.447823	-9.441943	-0.000693895448813	-0.000678458773487	0.000013985042574
219	minimi	-3.519408	1.447823	-9.441943	-0.000693895448813	-0.000678458773487	0.000013985042574
220	massimi	0.072226	0.001773	-11.06829	-0.000309945145907	-0.000354406832079	-0.000015024186371
220	minimi	0.072226	0.001773	-11.06829	-0.000309945145907	-0.000354406832079	-0.000015024186371
221	massimi	0.125387	-0.044719	-11.06829	-0.000309945145902	-0.000354406832069	-0.000015024186366
221	minimi	0.125387	-0.044719	-11.06829	-0.000309945145902	-0.000354406832069	-0.000015024186366
222	massimi	0.116002	-0.035539	-10.994962	-0.000376777349736	-0.000278328187845	-0.000014060906618
222	minimi	0.116002	-0.035539	-10.994962	-0.000376777349736	-0.000278328187845	-0.000014060906618
223	massimi	0.116072	-0.053603	-10.541407	-0.000375838690194	-0.000419681559312	-0.000013914103378
223	minimi	0.116072	-0.053603	-10.541407	-0.000375838690194	-0.000419681559312	-0.000013914103378
224	massimi	0.133872	-0.053408	-10.938062	-0.000234603077139	-0.000420502460442	-0.000013502483392
224	minimi	0.133872	-0.053408	-10.938062	-0.000234603077139	-0.000420502460442	-0.000013502483392
225	massimi	0.133941	-0.035733	-11.391618	-0.000233664417597	-0.000277507286715	-0.000013649286632
225	minimi	0.133941	-0.035733	-11.391618	-0.000233664417597	-0.000277507286715	-0.000013649286632
226	massimi	-0.995274	0.671844	-11.25965	-0.000338875527553	-0.000393717736747	-0.000220496271098
226	minimi	-0.995274	0.671844	-11.25965	-0.000338875527553	-0.000393717736747	-0.000220496271098
227	massimi	-1.820658	1.089608	-11.346061	-0.000189737379234	-0.000394379658489	-0.000426634261496
227	minimi	-1.820658	1.089608	-11.346061	-0.000189737379234	-0.000394379658489	-0.000426634261496
228	massimi	-2.15792	1.442764	-11.405055	-0.000386849121826	-0.000072270078887	-0.000571369446243
228	minimi	-2.15792	1.442764	-11.405055	-0.000386849121826	-0.000072270078887	-0.000571369446243
229	massimi	0.089342	-0.096992	-4.04888	-0.001625599032572	-0.000508933557355	0.000023487434063
229	minimi	0.089342	-0.096992	-4.04888	-0.001625599032572	-0.000508933557355	0.000023487434063
230	massimi	0.165682	-0.340832	-4.04888	-0.001625599032547	-0.000508933557342	0.000023487434056
230	minimi	0.165682	-0.340832	-4.04888	-0.001625599032547	-0.000508933557342	0.000023487434056

231	massimi	0.178836	-0.353541	-3.300817	-0.001624915553602	-0.00047990864524	0.000020713649271
231	minimi	0.178836	-0.353541	-3.300817	-0.001624915553602	-0.00047990864524	0.000020713649271
232	massimi	0.179366	-0.325862	-2.649505	-0.00162356762434	-0.000522443881672	0.000021832526505
232	minimi	0.179366	-0.325862	-2.649505	-0.00162356762434	-0.000522443881672	0.000021832526505
233	massimi	0.1509	-0.325605	-4.729879	-0.001578074858287	-0.000526749340556	0.000022376424923
233	minimi	0.1509	-0.325605	-4.729879	-0.001578074858287	-0.000526749340556	0.000022376424923
234	massimi	0.151429	-0.353799	-5.381192	-0.001576726929025	-0.000475603186357	0.00002125754769
234	minimi	0.151429	-0.353799	-5.381192	-0.001576726929025	-0.000475603186357	0.00002125754769
235	massimi	-0.994104	1.059043	-4.236133	-0.001368271917035	-0.000988393750158	-0.000259537989562
235	minimi	-0.994104	1.059043	-4.236133	-0.001368271917035	-0.000988393750158	-0.000259537989562
236	massimi	-1.490677	1.99046	-4.304422	-0.000835036100811	-0.000007555139332	-0.000760448627147
236	minimi	-1.490677	1.99046	-4.304422	-0.000835036100811	-0.000007555139332	-0.000760448627147
237	massimi	-2.163341	2.927795	-4.336914	-0.001329826535359	-0.001173699843477	-0.000674312568112
237	minimi	-2.163341	2.927795	-4.336914	-0.001329826535359	-0.001173699843477	-0.000674312568112
238	massimi	-0.017106	-0.098422	0.132962	-0.000679708679359	-0.000386485460334	0.000035339303903
238	minimi	-0.017106	-0.098422	0.132962	-0.000679708679359	-0.000386485460334	0.000035339303903
239	massimi	-1.502865	1.060216	0.067675	-0.001217046129027	-0.000853468073833	-0.000088008084354
239	minimi	-1.502865	1.060216	0.067675	-0.001217046129027	-0.000853468073833	-0.000088008084354
240	massimi	-2.615401	2.109058	0.038512	-0.0003091910386	-0.000520381975151	-0.000133267724839
240	minimi	-2.615401	2.109058	0.038512	-0.0003091910386	-0.000520381975151	-0.000133267724839
241	massimi	-3.536347	2.934189	0.019798	-0.001143350907695	-0.000968806721645	-0.000165045770287
241	minimi	-3.536347	2.934189	0.019798	-0.001143350907695	-0.000968806721645	-0.000165045770287
242	massimi	0.086001	-0.020088	-8.020617	-0.000443373907531	-0.000663422813496	0.000000908508695
242	minimi	0.086001	-0.020088	-8.020617	-0.000443373907531	-0.000663422813496	0.000000908508695
243	massimi	0.185514	-0.086594	-8.020617	-0.000443373907524	-0.00066342281348	0.000000908508695
243	minimi	0.185514	-0.086594	-8.020617	-0.000443373907524	-0.00066342281348	0.000000908508695
244	massimi	0.185372	-0.086703	-8.089275	-0.000487885707198	-0.000603506634434	0.000000386738859
244	minimi	0.185372	-0.086703	-8.089275	-0.000487885707198	-0.000603506634434	0.000000386738859
245	massimi	0.185507	-0.085911	-7.240254	-0.000486128607453	-0.000703114876194	0.00000067100863
245	minimi	0.185507	-0.085911	-7.240254	-0.000486128607453	-0.000703114876194	0.00000067100863
246	massimi	0.184292	-0.085623	-7.807665	-0.000387103173322	-0.000704289168311	0.000001280012264
246	minimi	0.184292	-0.085623	-7.807665	-0.000387103173322	-0.000704289168311	0.000001280012264
247	massimi	0.184426	-0.086991	-8.656686	-0.000385346073577	-0.000602332342317	0.000000995742493
247	minimi	0.184426	-0.086991	-8.656686	-0.000385346073577	-0.000602332342317	0.000000995742493
248	massimi	-0.997125	1.143235	-8.154628	-0.000613138042656	-0.000875323154903	0.000163353927821
248	minimi	-0.997125	1.143235	-8.154628	-0.000613138042656	-0.000875323154903	0.000163353927821
249	massimi	-1.573922	2.111066	-8.228445	-0.000491167234825	-0.000121004600836	0.000359021781703
249	minimi	-1.573922	2.111066	-8.228445	-0.000491167234825	-0.000121004600836	0.000359021781703
250	massimi	-2.165194	2.855339	-8.278596	-0.000673344597156	-0.000963534002698	0.000496405594004
250	minimi	-2.165194	2.855339	-8.278596	-0.000673344597156	-0.000963534002698	0.000496405594004
251	massimi	-0.017957	0.011115	-3.232914	-0.000478882815144	-0.001506321287315	0.000021466011153
251	minimi	-0.017957	0.011115	-3.232914	-0.000478882815144	-0.001506321287315	0.000021466011153
252	massimi	0.207991	-0.060717	-3.232914	-0.000478882815136	-0.001506321287284	0.000021466011146
252	minimi	0.207991	-0.060717	-3.232914	-0.000478882815136	-0.001506321287284	0.000021466011146
253	massimi	0.22002	-0.07312	-3.864752	-0.000491457694924	-0.001466116367993	0.000019249729374
253	minimi	0.22002	-0.07312	-3.864752	-0.000491457694924	-0.001466116367993	0.000019249729374
254	massimi	0.220114	-0.047912	-1.937024	-0.000487468147541	-0.001500606747178	0.000019449050936
254	minimi	0.220114	-0.047912	-1.937024	-0.000487468147541	-0.001500606747178	0.000019449050936
255	massimi	0.194488	-0.047588	-2.549879	-0.000455698976974	-0.001501875085943	0.000020131839969
255	minimi	0.194488	-0.047588	-2.549879	-0.000455698976974	-0.001501875085943	0.000020131839969
256	massimi	0.194582	-0.073443	-4.477607	-0.00045170942959	-0.001464848029227	0.000019932518407
256	minimi	0.194582	-0.073443	-4.477607	-0.00045170942959	-0.001464848029227	0.000019932518407
257	massimi	-1.503412	1.172813	-3.451912	-0.000775097360309	-0.001090014652951	0.000061688740725
257	minimi	-1.503412	1.172813	-3.451912	-0.000775097360309	-0.001090014652951	0.000061688740725
258	massimi	-2.574577	2.235739	-3.527584	-0.000406012384183	-0.000409044259549	0.000172457044049
258	minimi	-2.574577	2.235739	-3.527584	-0.000406012384183	-0.000409044259549	0.000172457044049
259	massimi	-3.532716	2.703375	-3.578954	-0.000327341382681	-0.001219919740201	0.000250230533617
259	minimi	-3.532716	2.703375	-3.578954	-0.000327341382681	-0.001219919740201	0.000250230533617
260	massimi	0.854283	-0.499094	-6.409772	0.000167023259399	0.000575981196872	0.000085658993154
260	minimi	0.854283	-0.499094	-6.409772	0.000167023259399	0.000575981196872	0.000085658993154
261	massimi	2.10423	-0.577695	-7.238878	0.000135637272172	0.001271564594924	0.000157460613278
261	minimi	2.10423	-0.577695	-7.238878	0.000135637272172	0.001271564594924	0.000157460613278
262	massimi	0.779381	-0.002472	-6.912576	0.000257830746058	-0.000492996453782	0.000128801027639
262	minimi	0.779381	-0.002472	-6.912576	0.000257830746058	-0.000492996453782	0.000128801027639
263	massimi	2.066151	0.097434	-9.798753	0.000255865385456	-0.000916858146091	0.000190608194102
263	minimi	2.066151	0.097434	-9.798753	0.000255865385456	-0.000916858146091	0.000190608194102
264	massimi	3.261409	0.012992	-11.075827	0.000108403552704	-0.000857291072139	0.000100510949234
264	minimi	3.261409	0.012992	-11.075827	0.000108403552704	-0.000857291072139	0.000100510949234
265	massimi	3.293545	-0.471088	-7.299697	0.0000471899119	0.001385272915683	0.000092561295484

265	minimi	3.293545	-0.471088	-7.299697	0.0000471899119	0.001385272915683	0.000092561295484
266	massimi	3.410181	-0.2706	-7.27369	0.000033368788255	0.001403894134176	-0.000045481870143
266	minimi	3.410181	-0.2706	-7.27369	0.000033368788255	0.001403894134176	-0.000045481870143
267	massimi	3.37804	-0.114772	-11.309274	0.00005812129245	-0.000838241233768	-0.00002276877348
267	minimi	3.37804	-0.114772	-11.309274	0.00005812129245	-0.000838241233768	-0.00002276877348
268	massimi	2.627537	-0.16693	-7.224206	-0.000011287041686	0.00136621839685	-0.000111273424675
268	minimi	2.627537	-0.16693	-7.224206	-0.000011287041686	0.00136621839685	-0.000111273424675
269	massimi	2.59268	-0.174947	-11.048911	-0.000024848044335	-0.000835576148536	-0.000091059060786
269	minimi	2.59268	-0.174947	-11.048911	-0.000024848044335	-0.000835576148536	-0.000091059060786
270	massimi	1.749644	-0.30437	-7.079652	-0.00004435232287	0.000798550745677	0.000002651545912
270	minimi	1.749644	-0.30437	-7.079652	-0.00004435232287	0.000798550745677	0.000002651545912
271	massimi	1.687831	-0.153413	-9.898573	-0.000033518116302	-0.000401438463973	-0.000087470044127
271	minimi	1.687831	-0.153413	-9.898573	-0.000033518116302	-0.000401438463973	-0.000087470044127
272	massimi	0.025323	0.010283	-7.973051	0.000067613271542	0.000063906585621	0.000003871143484
272	minimi	0.025323	0.010283	-7.973051	0.000067613271542	0.000063906585621	0.000003871143484
273	massimi	0.015737	0.020425	-7.973051	0.000067613271541	0.00006390658562	0.000003871143483
273	minimi	0.015737	0.020425	-7.973051	0.000067613271541	0.00006390658562	0.000003871143483
274	massimi	0.018003	0.018067	-7.903739	0.00001659906114	0.000113090304716	0.000003558697665
274	minimi	0.018003	0.018067	-7.903739	0.00001659906114	0.000113090304716	0.000003558697665
275	massimi	0.017971	0.022647	-7.985524	0.000016429802195	0.000012774705871	0.00000349164643
275	minimi	0.017971	0.022647	-7.985524	0.000016429802195	0.000012774705871	0.00000349164643
276	massimi	0.013398	0.022672	-7.898995	0.000116735583746	0.00001295378211	0.00000354330673
276	minimi	0.013398	0.022672	-7.898995	0.000116735583746	0.00001295378211	0.00000354330673
277	massimi	0.013367	0.018043	-7.81721	0.000116566324801	0.000112911228477	0.000003610357965
277	minimi	0.013367	0.018043	-7.81721	0.000116566324801	0.000112911228477	0.000003610357965
278	massimi	0.237694	-0.209141	-8.082027	0.000138283483468	0.000013667984043	0.000005715193817
278	minimi	0.237694	-0.209141	-8.082027	0.000138283483468	0.000013667984043	0.000005715193817
279	massimi	0.019806	0.008934	-11.44204	0.000042094510106	0.000197394672923	0.000002582500164
279	minimi	0.019806	0.008934	-11.44204	0.000042094510106	0.000197394672923	0.000002582500164
280	massimi	-0.009803	0.015248	-11.44204	0.000042094510106	0.00019739467292	0.000002582500163
280	minimi	-0.009803	0.015248	-11.44204	0.000042094510106	0.00019739467292	0.000002582500163
281	massimi	-0.008223	0.013654	-11.237256	-0.000031910869179	0.000268066845518	0.000002410047471
281	minimi	-0.008223	0.013654	-11.237256	-0.000031910869179	0.000268066845518	0.000002410047471
282	massimi	-0.008247	0.016741	-11.489873	-0.000032433676237	0.000120705021352	0.000002359991499
282	minimi	-0.008247	0.016741	-11.489873	-0.000032433676237	0.000120705021352	0.000002359991499
283	massimi	-0.011294	0.016726	-11.436002	0.000115339466128	0.000120816510211	0.000002327810372
283	minimi	-0.011294	0.016726	-11.436002	0.000115339466128	0.000120816510211	0.000002327810372
284	massimi	-0.011318	0.013669	-11.183385	0.00011481665907	0.000267955356658	0.000002377866344
284	minimi	-0.011318	0.013669	-11.183385	0.00011481665907	0.000267955356658	0.000002377866344
285	massimi	0.534863	-0.141595	-11.62008	0.000097787215619	0.000108451896563	-0.000008709399036
285	minimi	0.534863	-0.141595	-11.62008	0.000097787215619	0.000108451896563	-0.000008709399036
286	massimi	0.02691	0.005689	-11.684223	0.000003867089589	0.000294629087591	0.000003182809674
286	minimi	0.02691	0.005689	-11.684223	0.000003867089589	0.000294629087591	0.000003182809674
287	massimi	-0.017285	0.006269	-11.684223	0.000003867089589	0.000294629087586	0.000003182809673
287	minimi	-0.017285	0.006269	-11.684223	0.000003867089589	0.000294629087586	0.000003182809673
288	massimi	-0.01533	0.004342	-11.390405	-0.00007107144784	0.000365413159911	0.000002958253857
288	minimi	-0.01533	0.004342	-11.390405	-0.00007107144784	0.000365413159911	0.000002958253857
289	massimi	-0.015339	0.008154	-11.767459	-0.000071851783825	0.000214863393252	0.000002937674067
289	minimi	-0.015339	0.008154	-11.767459	-0.000071851783825	0.000214863393252	0.000002937674067
290	massimi	-0.019115	0.008128	-11.76251	0.00007946807669	0.000214873635381	0.00000288093252
290	minimi	-0.019115	0.008128	-11.76251	0.00007946807669	0.000214873635381	0.00000288093252
291	massimi	-0.019125	0.004369	-11.385456	0.000078687740705	0.000365402917782	0.00000290151231
291	minimi	-0.019125	0.004369	-11.385456	0.000078687740705	0.000365402917782	0.00000290151231
292	massimi	0.794598	-0.018677	-11.865971	0.000019666853282	0.000154556078294	0.000003758199693
292	minimi	0.794598	-0.018677	-11.865971	0.000019666853282	0.000154556078294	0.000003758199693
293	massimi	0.010663	0.000691	-11.710364	-0.000001508584459	0.00030036343429	0.000005442743203
293	minimi	0.010663	0.000691	-11.710364	-0.000001508584459	0.00030036343429	0.000005442743203
294	massimi	-0.034392	0.000465	-11.710364	-0.000001508584459	0.000300363434284	0.000005442743202
294	minimi	-0.034392	0.000465	-11.710364	-0.000001508584459	0.000300363434284	0.000005442743202
295	massimi	-0.031041	-0.0028	-11.409182	-0.000076535101577	0.000371230494299	0.000005049845432
295	minimi	-0.031041	-0.0028	-11.409182	-0.000076535101577	0.000371230494299	0.000005049845432
296	massimi	-0.031041	0.003727	-11.793575	-0.000077330625191	0.000220339943539	0.000005048318599
296	minimi	-0.031041	0.003727	-11.793575	-0.000077330625191	0.000220339943539	0.000005048318599
297	massimi	-0.037514	0.003674	-11.795505	0.000074359444725	0.000220335947997	0.000004935417659
297	minimi	-0.037514	0.003674	-11.795505	0.000074359444725	0.000220335947997	0.000004935417659
298	massimi	-0.037515	-0.002747	-11.411112	0.000073563921111	0.000371234489841	0.000004936944492
298	minimi	-0.037515	-0.002747	-11.411112	0.000073563921111	0.000371234489841	0.000004936944492
299	massimi	0.772028	-0.008249	-11.892481	0.000003791141649	0.000165542170622	0.000024610516706
299	minimi	0.772028	-0.008249	-11.892481	0.000003791141649	0.000165542170622	0.000024610516706

300	massimi	-0.026354	-0.006091	-11.653486	-0.000018076014656	0.000228245278127	0.000007325148189
300	minimi	-0.026354	-0.006091	-11.653486	-0.000018076014656	0.000228245278127	0.000007325148189
301	massimi	-0.060591	-0.008803	-11.653486	-0.000018076014656	0.000228245278122	0.000007325148187
301	minimi	-0.060591	-0.008803	-11.653486	-0.000018076014656	0.000228245278122	0.000007325148187
302	massimi	-0.056041	-0.013177	-11.388403	-0.000092559269133	0.000299803400092	0.000006804367918
302	minimi	-0.056041	-0.013177	-11.388403	-0.000092559269133	0.000299803400092	0.000006804367918
303	massimi	-0.056027	-0.00437	-11.680502	-0.000093163785154	0.000149729211741	0.00000683265462
303	minimi	-0.056027	-0.00437	-11.680502	-0.000093163785154	0.000149729211741	0.00000683265462
304	massimi	-0.064753	-0.004464	-11.703634	0.000057562794209	0.000149681336751	0.000006634357577
304	minimi	-0.064753	-0.004464	-11.703634	0.000057562794209	0.000149681336751	0.000006634357577
305	massimi	-0.06474	-0.013083	-11.411536	0.000056958278187	0.000299851275082	0.000006605460033
305	minimi	-0.06474	-0.013083	-11.411536	0.000056958278187	0.000299851275082	0.000006605460033
306	massimi	0.461274	0.04532	-11.834778	-0.000038177381917	0.000174156536406	0.000037856412528
306	minimi	0.461274	0.04532	-11.834778	-0.000038177381917	0.000174156536406	0.000037856412528
307	massimi	-0.021183	0.043826	-6.726212	-0.000062915731054	0.000157409636453	-0.000001333724757
307	minimi	-0.021183	0.043826	-6.726212	-0.000062915731054	0.000157409636453	-0.000001333724757
308	massimi	-0.021248	0.04297	-6.801658	0.000053316353262	0.000089962042668	-0.000001496343375
308	minimi	-0.021248	0.04297	-6.801658	0.000053316353262	0.000089962042668	-0.000001496343375
309	massimi	-0.021318	0.042025	-6.838265	0.000061966596254	0.000021848354894	-0.000001497953979
309	minimi	-0.021318	0.042025	-6.838265	0.000061966596254	0.000021848354894	-0.000001497953979
310	massimi	-0.020497	0.041033	-6.795552	0.000093095252056	-0.000016359756999	-0.000001551974715
310	minimi	-0.020497	0.041033	-6.795552	0.000093095252056	-0.000016359756999	-0.000001551974715
311	massimi	-0.019666	0.041023	-6.733751	0.000128633366291	-0.000015812792032	-0.000001502393679
311	minimi	-0.019666	0.041023	-6.733751	0.000128633366291	-0.000015812792032	-0.000001502393679
312	massimi	-0.018819	0.040999	-6.654495	0.000163637383388	-0.000015178167961	-0.000001575898422
312	minimi	-0.018819	0.040999	-6.654495	0.000163637383388	-0.000015178167961	-0.000001575898422
313	massimi	-0.017964	0.041999	-6.555139	0.000194757796316	0.000023015900968	-0.000001568554616
313	minimi	-0.017964	0.041999	-6.555139	0.000194757796316	0.000023015900968	-0.000001568554616
314	massimi	-0.018032	0.04297	-6.518327	0.000202773228805	0.000089962042668	-0.000001488804863
314	minimi	-0.018032	0.04297	-6.518327	0.000202773228805	0.000089962042668	-0.000001488804863
315	massimi	-0.018098	0.043851	-6.443086	0.000193808661516	0.000156242090379	-0.000001404325395
315	minimi	-0.018098	0.043851	-6.443086	0.000193808661516	0.000156242090379	-0.000001404325395
316	massimi	-0.018889	0.04469	-6.430035	0.000162892657906	0.000193778759513	-0.000001348772175
316	minimi	-0.018889	0.04469	-6.430035	0.000162892657906	0.000193778759513	-0.000001348772175
317	massimi	-0.019666	0.044676	-6.509276	0.000128633366291	0.000194196003556	-0.000001484804793
317	minimi	-0.019666	0.044676	-6.509276	0.000128633366291	0.000194196003556	-0.000001484804793
318	massimi	-0.020426	0.044656	-6.571092	0.000093839977539	0.000194960348551	-0.000001324848468
318	minimi	-0.020426	0.044656	-6.571092	0.000093839977539	0.000194960348551	-0.000001324848468
319	massimi	0.042607	0.083043	-7.130468	0.000064585234165	0.000114656407648	0.000004564478625
319	minimi	0.042607	0.083043	-7.130468	0.000064585234165	0.000114656407648	0.000004564478625
320	massimi	0.042465	0.085919	-7.177722	0.000054655253263	0.00004269785108	0.000004602482866
320	minimi	0.042465	0.085919	-7.177722	0.000054655253263	0.00004269785108	0.000004602482866
321	massimi	0.042337	0.088618	-7.18365	0.00006413475542	-0.000029576846324	0.000004236097778
321	minimi	0.042337	0.088618	-7.18365	0.00006413475542	-0.000029576846324	0.000004236097778
322	massimi	0.039952	0.091265	-7.106221	0.00009719877823	-0.000070040720436	0.000004215437149
322	minimi	0.039952	0.091265	-7.106221	0.00009719877823	-0.000070040720436	0.000004215437149
323	massimi	0.037564	0.091302	-7.041599	0.000134791473166	-0.000069404187709	0.000004580856027
323	minimi	0.037564	0.091302	-7.041599	0.000134791473166	-0.000069404187709	0.000004580856027
324	massimi	0.035146	0.09133	-6.958412	0.000171824500107	-0.000068802564537	0.000004261134588
324	minimi	0.035146	0.09133	-6.958412	0.000171824500107	-0.000068802564537	0.000004261134588
325	massimi	0.032695	0.088666	-6.88697	0.000204879888996	-0.0000283534064	0.000004370954966
325	minimi	0.032695	0.088666	-6.88697	0.000204879888996	-0.0000283534064	0.000004370954966
326	massimi	0.032565	0.085919	-6.880827	0.000213694187308	0.00004269785108	0.000004588083584
326	minimi	0.032565	0.085919	-6.880827	0.000213694187308	0.00004269785108	0.000004588083584
327	massimi	0.032426	0.082994	-6.833788	0.000204429410251	0.000113432967724	0.000004699335813
327	minimi	0.032426	0.082994	-6.833788	0.000204429410251	0.000113432967724	0.000004699335813
328	massimi	0.035004	0.080006	-6.851879	0.000171471037896	0.000153570108304	0.000004715278354
328	minimi	0.035004	0.080006	-6.851879	0.000171471037896	0.000153570108304	0.000004715278354
329	massimi	0.037564	0.080055	-6.935058	0.000134791473166	0.000154068559281	0.000004616023394
329	minimi	0.037564	0.080055	-6.935058	0.000134791473166	0.000154068559281	0.000004616023394
330	massimi	0.040094	0.080071	-6.999688	0.000097552240441	0.000154808264203	0.000004669580915
330	minimi	0.040094	0.080071	-6.999688	0.000097552240441	0.000154808264203	0.000004669580915
331	massimi	-0.045272	0.021998	-8.204463	-0.000021930037511	0.000234645588513	0.000001494622722
331	minimi	-0.045272	0.021998	-8.204463	-0.000021930037511	0.000234645588513	0.000001494622722
332	massimi	-0.045308	0.022912	-8.322046	-0.000034113733566	0.00014912274895	0.000001396718945
332	minimi	-0.045308	0.022912	-8.322046	-0.000034113733566	0.00014912274895	0.000001396718945
333	massimi	-0.045344	0.023778	-8.390204	-0.000023503340944	0.000062495779646	0.000001407055284
333	minimi	-0.045344	0.023778	-8.390204	-0.000023503340944	0.000062495779646	0.000001407055284
334	massimi	-0.046126	0.024607	-8.413764	0.000016276656687	0.000013592948432	0.000001333925652

334	minimi	-0.046126	0.024607	-8.413764	0.000016276656687	0.000013592948432	0.000001333925652
335	massimi	-0.046884	0.024568	-8.391145	0.000061579607906	0.000013778420487	0.000001401981192
335	minimi	-0.046884	0.024568	-8.391145	0.000061579607906	0.000013778420487	0.000001401981192
336	massimi	-0.047602	0.024526	-8.346237	0.000106626875134	0.000014158600966	0.000001276890859
336	minimi	-0.047602	0.024526	-8.346237	0.000106626875134	0.000014158600966	0.000001276890859
337	massimi	-0.048304	0.023718	-8.254665	0.00014640292672	0.000063054709506	0.000001238741372
337	minimi	-0.048304	0.023718	-8.254665	0.00014640292672	0.000063054709506	0.000001238741372
338	massimi	-0.048336	0.022912	-8.186409	0.00015670942166	0.00014912274895	0.00000141469097
338	minimi	-0.048336	0.022912	-8.186409	0.00015670942166	0.00014912274895	0.00000141469097
339	massimi	-0.048376	0.022058	-8.068924	0.000144829623287	0.000234086658653	0.000001326308809
339	minimi	-0.048376	0.022058	-8.068924	0.000144829623287	0.000234086658653	0.000001326308809
340	massimi	-0.04764	0.021163	-7.974168	0.000105392404374	0.000281893049111	0.00000139799515
340	minimi	-0.04764	0.021163	-7.974168	0.000105392404374	0.000281893049111	0.00000139799515
341	massimi	-0.046884	0.021127	-8.019052	0.000061579607906	0.000281912896427	0.000001411359631
341	minimi	-0.046884	0.021127	-8.019052	0.000061579607906	0.000281912896427	0.000001411359631
342	massimi	-0.046089	0.021082	-8.041695	0.000017511127447	0.000282458701646	0.000001455029943
342	minimi	-0.046089	0.021082	-8.041695	0.000017511127447	0.000282458701646	0.000001455029943
343	massimi	0.024674	0.067611	-10.228479	-0.000015138528894	0.000230201528978	0.000004371976075
343	minimi	0.024674	0.067611	-10.228479	-0.000015138528894	0.000230201528978	0.000004371976075
344	massimi	0.024557	0.07036	-10.335422	-0.000030277583539	0.000121334124911	0.000004398962434
344	minimi	0.024557	0.07036	-10.335422	-0.000030277583539	0.000121334124911	0.000004398962434
345	massimi	0.024453	0.072964	-10.379607	-0.000016418650561	0.000011568346084	0.000004103060592
345	minimi	0.024453	0.072964	-10.379607	-0.000016418650561	0.000011568346084	0.000004103060592
346	massimi	0.022149	0.075522	-10.359834	0.000033998405439	-0.000050257922345	0.000004072865605
346	minimi	0.022149	0.075522	-10.359834	0.000033998405439	-0.000050257922345	0.000004072865605
347	massimi	0.019849	0.075542	-10.323945	0.000091248646721	-0.000049880272405	0.000004383777684
347	minimi	0.019849	0.075542	-10.323945	0.000091248646721	-0.000049880272405	0.000004383777684
348	massimi	0.017532	0.075556	-10.259773	0.000148120014282	-0.000049419738389	0.000004097011913
348	minimi	0.017532	0.075556	-10.259773	0.000148120014282	-0.000049419738389	0.000004097011913
349	massimi	0.015194	0.07299	-10.178766	0.000198531225449	0.00001239656789	0.000004174318483
349	minimi	0.015194	0.07299	-10.178766	0.000198531225449	0.00001239656789	0.000004174318483
350	massimi	0.015088	0.07036	-10.134435	0.000211939840991	0.000121334124911	0.000004391353922
350	minimi	0.015088	0.07036	-10.134435	0.000211939840991	0.000121334124911	0.000004391353922
351	massimi	0.014973	0.067585	-10.027638	0.000197251103783	0.000229373307171	0.000004443233966
351	minimi	0.014973	0.067585	-10.027638	0.000197251103783	0.000229373307171	0.000004443233966
352	massimi	0.017417	0.064753	-9.957038	0.000147115583684	0.000290302955779	0.000004468916338
352	minimi	0.017417	0.064753	-9.957038	0.000147115583684	0.000290302955779	0.000004468916338
353	massimi	0.019849	0.064785	-10.02119	0.000091248646721	0.000290470306234	0.000004412576713
353	minimi	0.019849	0.064785	-10.02119	0.000091248646721	0.000290470306234	0.000004412576713
354	massimi	0.022265	0.064787	-10.057099	0.000035002836037	0.000291141139735	0.000004444770031
354	minimi	0.022265	0.064787	-10.057099	0.000035002836037	0.000291141139735	0.000004444770031
355	massimi	0.064529	0.117945	-10.44764	-0.000180546348901	0.000123869932743	0.000016303543032
355	minimi	0.064529	0.117945	-10.44764	-0.000180546348901	0.000123869932743	0.000016303543032
356	massimi	0.064457	0.123274	-10.479088	-0.000186601402064	0.000074333986726	0.00001649642577
356	minimi	0.064457	0.123274	-10.479088	-0.000186601402064	0.000074333986726	0.00001649642577
357	massimi	0.064394	0.128525	-10.495907	-0.000180766435343	0.000024678315979	0.000016056070382
357	minimi	0.064394	0.128525	-10.495907	-0.000180766435343	0.000024678315979	0.000016056070382
358	massimi	0.059141	0.133751	-10.551892	-0.000147566181028	-0.000008562089205	0.000016000360594
358	minimi	0.059141	0.133751	-10.551892	-0.000147566181028	-0.000008562089205	0.000016000360594
359	massimi	0.053891	0.133777	-10.590977	-0.000097813685458	-0.000014795348648	0.000016500964215
359	minimi	0.053891	0.133777	-10.590977	-0.000097813685458	-0.000014795348648	0.000016500964215
360	massimi	0.048607	0.13381	-10.615405	-0.000047903647992	-0.000008851693826	0.000016108547098
360	minimi	0.048607	0.13381	-10.615405	-0.000047903647992	-0.000008851693826	0.000016108547098
361	massimi	0.043288	0.12856	-10.623041	-0.000014635734823	0.000024410743054	0.000016250798837
361	minimi	0.043288	0.12856	-10.623041	-0.000014635734823	0.000024410743054	0.000016250798837
362	massimi	0.043227	0.123274	-10.606238	-0.000008637755751	0.000074333986726	0.000016489375556
362	minimi	0.043227	0.123274	-10.606238	-0.000008637755751	0.000074333986726	0.000016489375556
363	massimi	0.043153	0.11791	-10.574774	-0.000014855821265	0.000124137505668	0.000016498271487
363	minimi	0.043153	0.11791	-10.574774	-0.000014855821265	0.000124137505668	0.000016498271487
364	massimi	0.048527	0.112509	-10.518789	-0.000048106991339	0.000157348524873	0.000016553981275
364	minimi	0.048527	0.112509	-10.518789	-0.000048106991339	0.000157348524873	0.000016553981275
365	massimi	0.053891	0.112546	-10.494349	-0.000097813685458	0.000163168297665	0.00001648483711
365	minimi	0.053891	0.112546	-10.494349	-0.000097813685458	0.000163168297665	0.00001648483711
366	massimi	0.059222	0.112568	-10.455276	-0.00014736283768	0.000157058920252	0.000016445794771
366	minimi	0.059222	0.112568	-10.455276	-0.00014736283768	0.000157058920252	0.000016445794771
367	massimi	-0.050943	0.005357	-8.298758	-0.000072546018146	0.000308801691871	0.000001097970024
367	minimi	-0.050943	0.005357	-8.298758	-0.000072546018146	0.000308801691871	0.000001097970024
368	massimi	-0.050952	0.006022	-8.462032	-0.000085287303781	0.000221507530152	0.000001011265405
368	minimi	-0.050952	0.006022	-8.462032	-0.000085287303781	0.000221507530152	0.000001011265405

369	massimi	-0.050962	0.006674	-8.574658	-0.000074883009384	0.000132573289683	0.000001074955339
369	minimi	-0.050962	0.006674	-8.574658	-0.000074883009384	0.000132573289683	0.000001074955339
370	massimi	-0.051555	0.0073	-8.669496	-0.000033978457436	0.000082134263856	0.000001008169037
370	minimi	-0.051555	0.0073	-8.669496	-0.000033978457436	0.000082134263856	0.000001008169037
371	massimi	-0.052121	0.007255	-8.673979	0.000012696942822	0.000082009953811	0.000001020724198
371	minimi	-0.052121	0.007255	-8.673979	0.000012696942822	0.000082009953811	0.000001020724198
372	massimi	-0.052644	0.00721	-8.655573	0.000059319624248	0.000082250894314	0.000000944763043
372	minimi	-0.052644	0.00721	-8.655573	0.000059319624248	0.000082250894314	0.000000944763043
373	massimi	-0.053146	0.006607	-8.546712	0.000100223362572	0.00013268853401	0.00000088783954
373	minimi	-0.053146	0.006607	-8.546712	0.000100223362572	0.00013268853401	0.00000088783954
374	massimi	-0.053153	0.006022	-8.434065	0.000110564997078	0.000221507530152	0.000001031245035
374	minimi	-0.053153	0.006022	-8.434065	0.000110564997078	0.000221507530152	0.000001031245035
375	massimi	-0.053165	0.005424	-8.270812	0.000097886371334	0.000308686447544	0.000000910854224
375	minimi	-0.053165	0.005424	-8.270812	0.000097886371334	0.000308686447544	0.000000910854224
376	massimi	-0.052654	0.004798	-8.1029	0.000057485936424	0.000357505415625	0.000000976591964
376	minimi	-0.052654	0.004798	-8.1029	0.000057485936424	0.000357505415625	0.000000976591964
377	massimi	-0.052121	0.004755	-8.12127	0.000012696942822	0.0003572111158	0.000001023189061
377	minimi	-0.052121	0.004755	-8.12127	0.000012696942822	0.0003572111158	0.000001023189061
378	massimi	-0.051545	0.004708	-8.116823	-0.000032144769612	0.000357622046083	0.000001039997958
378	minimi	-0.051545	0.004708	-8.116823	-0.000032144769612	0.000357622046083	0.000001039997958
379	massimi	0.011429	0.038079	-11.216125	-0.000116062811887	0.000290671707062	0.000002040525737
379	minimi	0.011429	0.038079	-11.216125	-0.000116062811887	0.000290671707062	0.000002040525737
380	massimi	0.011364	0.039361	-11.356641	-0.000132947200789	0.000169332398487	0.000002040131418
380	minimi	0.011364	0.039361	-11.356641	-0.000132947200789	0.000169332398487	0.000002040131418
381	massimi	0.011305	0.040562	-11.427037	-0.000117849333794	0.000046739329248	0.000001890088586
381	minimi	0.011305	0.040562	-11.427037	-0.000117849333794	0.000046739329248	0.000001890088586
382	massimi	0.010242	0.041735	-11.480742	-0.000061355180441	-0.000022613372886	0.000001871129947
382	minimi	0.010242	0.041735	-11.480742	-0.000061355180441	-0.000022613372886	0.000001871129947
383	massimi	0.00918	0.041745	-11.495106	0.000002688186237	-0.000022687856598	0.000002031716644
383	minimi	0.00918	0.041745	-11.495106	0.000002688186237	-0.000022687856598	0.000002031716644
384	massimi	0.008112	0.041751	-11.477794	0.000066720391291	-0.000022588679976	0.000001882297976
384	minimi	0.008112	0.041751	-11.477794	0.000066720391291	-0.000022588679976	0.000001882297976
385	massimi	0.007032	0.040574	-11.421121	0.000123214372455	0.000046763728673	0.000001923046428
385	minimi	0.007032	0.040574	-11.421121	0.000123214372455	0.000046763728673	0.000001923046428
386	massimi	0.006972	0.039361	-11.35072	0.000138298973093	0.000169332398487	0.000002036612368
386	minimi	0.006972	0.039361	-11.35072	0.000138298973093	0.000169332398487	0.000002036612368
387	massimi	0.006909	0.038067	-11.210208	0.000121427850548	0.000290647307638	0.000002073483579
387	minimi	0.006909	0.038067	-11.210208	0.000121427850548	0.000290647307638	0.000002073483579
388	massimi	0.008047	0.036741	-11.055301	0.000065318620418	0.000358762307847	0.000002090349373
388	minimi	0.008047	0.036741	-11.055301	0.000065318620418	0.000358762307847	0.000002090349373
389	massimi	0.00918	0.036756	-11.072586	0.000002688186237	0.000358452321132	0.000002047827444
389	minimi	0.00918	0.036756	-11.072586	0.000002688186237	0.000358452321132	0.000002047827444
390	massimi	0.010306	0.036757	-11.058248	-0.000059953409568	0.000358787000757	0.000002079181344
390	minimi	0.010306	0.036757	-11.058248	-0.000059953409568	0.000358787000757	0.000002079181344
391	massimi	0.03892	0.111283	-12.85732	-0.000104001737573	0.000307014951249	0.000004420150829
391	minimi	0.03892	0.111283	-12.85732	-0.000104001737573	0.000307014951249	0.000004420150829
392	massimi	0.038857	0.112732	-12.946105	-0.000111847826168	0.000245459340763	0.000004432409602
392	minimi	0.038857	0.112732	-12.946105	-0.000111847826168	0.000245459340763	0.000004432409602
393	massimi	0.038796	0.114111	-13.016703	-0.000104728488221	0.000183508385497	0.000004193840761
393	minimi	0.038796	0.114111	-13.016703	-0.000104728488221	0.000183508385497	0.000004193840761
394	massimi	0.037416	0.11546	-13.09697	-0.000063441007549	0.000142163339952	0.00000413226105
394	minimi	0.037416	0.11546	-13.09697	-0.000063441007549	0.000142163339952	0.00000413226105
395	massimi	0.036039	0.115481	-13.106523	-0.000001351233153	0.000134472964046	0.000004437426246
395	minimi	0.036039	0.115481	-13.106523	-0.000001351233153	0.000134472964046	0.000004437426246
396	massimi	0.034639	0.1155	-13.097848	0.000060740717583	0.00014215933925	0.000004204608937
396	minimi	0.034639	0.1155	-13.097848	0.000060740717583	0.00014215933925	0.000004204608937
397	massimi	0.033214	0.114134	-13.01846	0.000102029132918	0.00018350468915	0.000004324062107
397	minimi	0.033214	0.114134	-13.01846	0.000102029132918	0.00018350468915	0.000004324062107
398	massimi	0.033155	0.112732	-12.947861	0.000109150722776	0.000245459340763	0.000004427694891
398	minimi	0.033155	0.112732	-12.947861	0.000109150722776	0.000245459340763	0.000004427694891
399	massimi	0.033091	0.111259	-12.859076	0.00010130238227	0.000307018647597	0.000004550372175
399	minimi	0.033091	0.111259	-12.859076	0.00010130238227	0.000307018647597	0.000004550372175
400	massimi	0.034565	0.109755	-12.778809	0.000060069254551	0.000348194210443	0.000004611951886
400	minimi	0.034565	0.109755	-12.778809	0.000060069254551	0.000348194210443	0.000004611951886
401	massimi	0.036039	0.109778	-12.787443	-0.000001351233153	0.00035547151299	0.000004422678247
401	minimi	0.036039	0.109778	-12.787443	-0.000001351233153	0.00035547151299	0.000004422678247
402	massimi	0.03749	0.109794	-12.777932	-0.000062769544517	0.000348190209742	0.000004539603999
402	minimi	0.03749	0.109794	-12.777932	-0.000062769544517	0.000348190209742	0.000004539603999
403	massimi	-0.068955	0.002425	-8.293093	-0.000080119517157	0.000302100366198	-0.000003752318883

403	minimi	-0.068955	0.002425	-8.293093	-0.000080119517157	0.000302100366198	-0.000003752318883
404	massimi	-0.068948	0.000032	-8.452199	-0.000092804626962	0.000214833293869	-0.000003991470533
404	minimi	-0.068948	0.000032	-8.452199	-0.000092804626962	0.000214833293869	-0.000003991470533
405	massimi	-0.068955	-0.002362	-8.560679	-0.000082386092587	0.000125975559949	-0.000003752439573
405	minimi	-0.068955	-0.002362	-8.560679	-0.000082386092587	0.000125975559949	-0.000003752439573
406	massimi	-0.066862	-0.004787	-8.655536	-0.000041497415804	0.000075571161087	-0.00000382725855
406	minimi	-0.066862	-0.004787	-8.655536	-0.000041497415804	0.000075571161087	-0.00000382725855
407	massimi	-0.064747	-0.004838	-8.664167	0.000005125584626	0.000075420123709	-0.000003981800118
407	minimi	-0.064747	-0.004838	-8.664167	0.000005125584626	0.000075420123709	-0.000003981800118
408	massimi	-0.062578	-0.004899	-8.649915	0.000051727303174	0.00007561824323	-0.00000390602397
408	minimi	-0.062578	-0.004899	-8.649915	0.000051727303174	0.00007561824323	-0.00000390602397
409	massimi	-0.060373	-0.002445	-8.549398	0.000092615651507	0.00012602208253	-0.00000398488218
409	minimi	-0.060373	-0.002445	-8.549398	0.000092615651507	0.00012602208253	-0.00000398488218
410	massimi	-0.060375	0.000032	-8.440909	0.000103008890929	0.000214833293869	-0.00000396665105
410	minimi	-0.060375	0.000032	-8.440909	0.000103008890929	0.000214833293869	-0.00000396665105
411	massimi	-0.060373	0.002508	-8.281811	0.000090349076077	0.000302053843617	-0.000003984761491
411	minimi	-0.060373	0.002508	-8.281811	0.000090349076077	0.000302053843617	-0.000003984761491
412	massimi	-0.062578	0.004962	-8.113895	0.000049948866139	0.000350887783444	-0.000003905857059
412	minimi	-0.062578	0.004962	-8.113895	0.000049948866139	0.000350887783444	-0.000003905857059
413	massimi	-0.064747	0.004901	-8.128112	0.000005125584626	0.000350566789947	-0.000003981787192
413	minimi	-0.064747	0.004901	-8.128112	0.000005125584626	0.000350566789947	-0.000003981787192
414	massimi	-0.066862	0.00485	-8.119516	-0.000039718978769	0.000350934865588	-0.000003827091638
414	minimi	-0.066862	0.00485	-8.119516	-0.000039718978769	0.000350934865588	-0.000003827091638
415	massimi	-0.0104	0.019871	-11.366713	-0.00016073515776	0.000290699005155	-0.000001345830934
415	minimi	-0.0104	0.019871	-11.366713	-0.00016073515776	0.000290699005155	-0.000001345830934
416	massimi	-0.010428	0.019016	-11.506559	-0.000177804496648	0.000167249867279	-0.000001439753204
416	minimi	-0.010428	0.019016	-11.506559	-0.000177804496648	0.000167249867279	-0.000001439753204
417	massimi	-0.01046	0.018122	-11.575032	-0.000162499708162	0.00004256238809	-0.000001418510059
417	minimi	-0.01046	0.018122	-11.575032	-0.000162499708162	0.00004256238809	-0.000001418510059
418	massimi	-0.009676	0.017206	-11.649952	-0.000104949767195	-0.000028073854507	-0.000001442239682
418	minimi	-0.009676	0.017206	-11.649952	-0.000104949767195	-0.000028073854507	-0.000001442239682
419	massimi	-0.00889	0.017203	-11.687917	-0.000039811344639	-0.000028338800531	-0.0000014429288
419	minimi	-0.00889	0.017203	-11.687917	-0.000039811344639	-0.000028338800531	-0.0000014429288
420	massimi	-0.008097	0.017191	-11.693609	0.000025492378696	-0.000028439550126	-0.000001453054752
420	minimi	-0.008097	0.017191	-11.693609	0.000025492378696	-0.000028439550126	-0.000001453054752
421	massimi	-0.007298	0.018111	-11.662658	0.000083044869735	0.000042201038909	-0.000001450426288
421	minimi	-0.007298	0.018111	-11.662658	0.000083044869735	0.000042201038909	-0.000001450426288
422	massimi	-0.007329	0.019016	-11.594248	0.000098546129547	0.000167249867279	-0.00000143634537
422	minimi	-0.007329	0.019016	-11.594248	0.000098546129547	0.000167249867279	-0.00000143634537
423	massimi	-0.007358	0.019882	-11.454339	0.000081280319333	0.000291060354336	-0.000001377747163
423	minimi	-0.007358	0.019882	-11.454339	0.000081280319333	0.000291060354336	-0.000001377747163
424	massimi	-0.008128	0.02073	-11.276311	0.000024107847475	0.000360478753175	-0.00000135254106
424	minimi	-0.008128	0.02073	-11.276311	0.000024107847475	0.000360478753175	-0.00000135254106
425	massimi	-0.00889	0.020723	-11.270593	-0.000039811344639	0.000359973872331	-0.000001435145357
425	minimi	-0.00889	0.020723	-11.270593	-0.000039811344639	0.000359973872331	-0.000001435145357
426	massimi	-0.009645	0.020714	-11.232655	-0.000103565235974	0.000360113057556	-0.00000134172599
426	minimi	-0.009645	0.020714	-11.232655	-0.000103565235974	0.000360113057556	-0.00000134172599
427	massimi	0.06087	0.018533	-13.924536	-0.000392054198509	0.000062173517315	0.000003170846227
427	minimi	0.06087	0.018533	-13.924536	-0.000392054198509	0.000062173517315	0.000003170846227
428	massimi	0.06086	0.019582	-13.932827	-0.000400005280434	-0.000005043054306	0.000003304421639
428	minimi	0.06086	0.019582	-13.932827	-0.000400005280434	-0.000005043054306	0.000003304421639
429	massimi	0.060849	0.020619	-13.921261	-0.000392039267144	-0.000072251503419	0.000003131535747
429	minimi	0.060849	0.020619	-13.921261	-0.000392039267144	-0.000072251503419	0.000003131535747
430	massimi	0.059826	0.021657	-14.010555	-0.000346974489423	-0.000117380320148	0.000003163016504
430	minimi	0.059826	0.021657	-14.010555	-0.000346974489423	-0.000117380320148	0.000003163016504
431	massimi	0.058789	0.021688	-14.111287	-0.000279611608645	-0.000125981594173	0.000003301857032
431	minimi	0.058789	0.021688	-14.111287	-0.000279611608645	-0.000125981594173	0.000003301857032
432	massimi	0.057715	0.021721	-14.192115	-0.000211798376336	-0.000118208188083	0.000003281035471
432	minimi	0.057715	0.021721	-14.192115	-0.000211798376336	-0.000118208188083	0.000003281035471
433	massimi	0.05662	0.020657	-14.284689	-0.000166540188044	-0.000073016391233	0.000003343961976
433	minimi	0.05662	0.020657	-14.284689	-0.000166540188044	-0.000073016391233	0.000003343961976
434	massimi	0.056611	0.019582	-14.296303	-0.000158108185303	-0.000005043054306	0.000003296730671
434	minimi	0.056611	0.019582	-14.296303	-0.000158108185303	-0.000005043054306	0.000003296730671
435	massimi	0.056598	0.018494	-14.287964	-0.000166525256679	0.000062938405128	0.000003383272455
435	minimi	0.056598	0.018494	-14.287964	-0.000166525256679	0.000062938405128	0.000003383272455
436	massimi	0.057702	0.017406	-14.198669	-0.000211784580876	0.000108133690318	0.000003351791699
436	minimi	0.057702	0.017406	-14.198669	-0.000211784580876	0.000108133690318	0.000003351791699
437	massimi	0.058789	0.01744	-14.117843	-0.000279611608645	0.000115915500959	0.000003299295278
437	minimi	0.058789	0.01744	-14.117843	-0.000279611608645	0.000115915500959	0.000003299295278

438	massimi	0.059839	0.01747	-14.01711	-0.000346988284883	0.000107305822382	0.000003233772731
438	minimi	0.059839	0.01747	-14.01711	-0.000346988284883	0.000107305822382	0.000003233772731
439	massimi	-0.097234	-0.001421	-8.235736	-0.000100056899745	0.000211720269545	-0.000010900274097
439	minimi	-0.097234	-0.001421	-8.235736	-0.000100056899745	0.000211720269545	-0.000010900274097
440	massimi	-0.097205	-0.008321	-8.338746	-0.00011207999198	0.00012527445525	-0.000011368556924
440	minimi	-0.097205	-0.008321	-8.338746	-0.00011207999198	0.00012527445525	-0.000011368556924
441	massimi	-0.097208	-0.015204	-8.391772	-0.000101378594335	0.000037901087965	-0.000010868470615
441	minimi	-0.097208	-0.015204	-8.391772	-0.000101378594335	0.000037901087965	-0.000010868470615
442	massimi	-0.091157	-0.02213	-8.442464	-0.000061081483085	-0.000011577790144	-0.000010957530828
442	minimi	-0.091157	-0.02213	-8.442464	-0.000061081483085	-0.000011577790144	-0.000010957530828
443	massimi	-0.085088	-0.02219	-8.462216	-0.000015422117745	-0.000011716020007	-0.000011358342319
443	minimi	-0.085088	-0.02219	-8.462216	-0.000015422117745	-0.000011716020007	-0.000011358342319
444	massimi	-0.078948	-0.022278	-8.459375	0.000030301281596	-0.000011719453274	-0.000011061041195
444	minimi	-0.078948	-0.022278	-8.459375	0.000030301281596	-0.000011719453274	-0.000011061041195
445	massimi	-0.072749	-0.015314	-8.425716	0.0000705993811	0.000037761108475	-0.000011173937398
445	minimi	-0.072749	-0.015314	-8.425716	0.0000705993811	0.000037761108475	-0.000011173937398
446	massimi	-0.072747	-0.008321	-8.372715	0.000081376887477	0.00012527445525	-0.000011335940151
446	minimi	-0.072747	-0.008321	-8.372715	0.000081376887477	0.00012527445525	-0.000011335940151
447	massimi	-0.072723	-0.001311	-8.26968	0.00006927768651	0.000211860249035	-0.00001120574088
447	minimi	-0.072723	-0.001311	-8.26968	0.00006927768651	0.000211860249035	-0.00001120574088
448	massimi	-0.078934	0.005684	-8.146809	0.000029264232232	0.000260425364683	-0.000011105024875
448	minimi	-0.078934	0.005684	-8.146809	0.000029264232232	0.000260425364683	-0.000011105024875
449	massimi	-0.085088	0.005594	-8.14963	-0.000015422117745	0.000260119224143	-0.000011361748459
449	minimi	-0.085088	0.005594	-8.14963	-0.000015422117745	0.000260119224143	-0.000011361748459
450	massimi	-0.091171	0.005537	-8.129897	-0.000060044433721	0.000260283701553	-0.000011001514508
450	minimi	-0.091171	0.005537	-8.129897	-0.000060044433721	0.000260283701553	-0.000011001514508
451	massimi	-0.022595	-0.001446	-11.115536	-0.000209277926697	0.000209417463827	-0.000001961883283
451	minimi	-0.022595	-0.001446	-11.115536	-0.000209277926697	0.000209417463827	-0.000001961883283
452	massimi	-0.022588	-0.002691	-11.205641	-0.000225433122907	0.000088764203098	-0.000002054198837
452	minimi	-0.022588	-0.002691	-11.205641	-0.000225433122907	0.000088764203098	-0.000002054198837
453	massimi	-0.022587	-0.003929	-11.226097	-0.000210214423167	-0.000032546280154	-0.000001951599706
453	minimi	-0.022587	-0.003929	-11.226097	-0.000210214423167	-0.000032546280154	-0.000001951599706
454	massimi	-0.0215	-0.005177	-11.281352	-0.000154073247474	-0.000101283978401	-0.000001972795363
454	minimi	-0.0215	-0.005177	-11.281352	-0.000154073247474	-0.000101283978401	-0.000001972795363
455	massimi	-0.020406	-0.005192	-11.346922	-0.000090848292571	-0.000101691262544	-0.000002051145418
455	minimi	-0.020406	-0.005192	-11.346922	-0.000090848292571	-0.000101691262544	-0.000002051145418
456	massimi	-0.019296	-0.005212	-11.380974	-0.000027246126258	-0.000102118484818	-0.000001997619858
456	minimi	-0.019296	-0.005212	-11.380974	-0.000027246126258	-0.000102118484818	-0.000001997619858
457	massimi	-0.018173	-0.003956	-11.426057	0.000028900868624	-0.000033370868131	-0.000002024858988
457	minimi	-0.018173	-0.003956	-11.426057	0.000028900868624	-0.000033370868131	-0.000002024858988
458	massimi	-0.018171	-0.002691	-11.405746	0.00004456791003	0.000088764203098	-0.000002046376628
458	minimi	-0.018171	-0.002691	-11.405746	0.00004456791003	0.000088764203098	-0.000002046376628
459	massimi	-0.018165	-0.00142	-11.315496	0.000027964372154	0.000210242051804	-0.000002035142565
459	minimi	-0.018165	-0.00142	-11.315496	0.000027964372154	0.000210242051804	-0.000002035142565
460	massimi	-0.019292	-0.000153	-11.159503	-0.000027980935872	0.00027834101782	-0.000002011841827
460	minimi	-0.019292	-0.000153	-11.159503	-0.000027980935872	0.00027834101782	-0.000002011841827
461	massimi	-0.020406	-0.000174	-11.125437	-0.000090848292571	0.000277699311738	-0.00000205224672
461	minimi	-0.020406	-0.000174	-11.125437	-0.000090848292571	0.000277699311738	-0.00000205224672
462	massimi	-0.021504	-0.000189	-11.05988	-0.000153338437859	0.000277506511402	-0.000001987017333
462	minimi	-0.021504	-0.000189	-11.05988	-0.000153338437859	0.000277506511402	-0.000001987017333
463	massimi	0.126421	-0.066854	-13.103582	-0.000512466347276	-0.000463978219265	0.000006756318131
463	minimi	0.126421	-0.066854	-13.103582	-0.000512466347276	-0.000463978219265	0.000006756318131
464	massimi	0.126456	-0.064618	-12.941768	-0.000518988219199	-0.000526897968795	0.000007142853288
464	minimi	0.126456	-0.064618	-12.941768	-0.000518988219199	-0.000526897968795	0.000007142853288
465	massimi	0.126492	-0.062342	-12.761454	-0.000510906319293	-0.000588969079358	0.000006886039262
465	minimi	0.126492	-0.062342	-12.761454	-0.000510906319293	-0.000588969079358	0.000006886039262
466	massimi	0.124254	-0.06003	-12.722453	-0.000468979583155	-0.000630867845473	0.000007035861343
466	minimi	0.124254	-0.06003	-12.722453	-0.000468979583155	-0.000630867845473	0.000007035861343
467	massimi	0.121975	-0.059967	-12.863822	-0.000406975923001	-0.000638672285467	0.000007130647904
467	minimi	0.121975	-0.059967	-12.863822	-0.000406975923001	-0.000638672285467	0.000007130647904
468	massimi	0.11962	-0.059897	-12.986713	-0.000344316774218	-0.000632072810885	0.000007280726808
468	minimi	0.11962	-0.059897	-12.986713	-0.000344316774218	-0.000632072810885	0.000007280726808
469	massimi	0.117232	-0.062262	-13.290425	-0.000302108528146	-0.000590082376926	0.000007326780682
469	minimi	0.117232	-0.062262	-13.290425	-0.000302108528146	-0.000590082376926	0.000007326780682
470	massimi	0.117272	-0.064618	-13.470807	-0.000293348378549	-0.000526897968795	0.000007126896086
470	minimi	0.117272	-0.064618	-13.470807	-0.000293348378549	-0.000526897968795	0.000007126896086
471	massimi	0.117303	-0.066934	-13.632553	-0.000300548500164	-0.000462864921697	0.000007197059552
471	minimi	0.117303	-0.066934	-13.632553	-0.000300548500164	-0.000462864921697	0.000007197059552
472	massimi	0.119662	-0.06922	-13.671554	-0.000342875425494	-0.000420510026343	0.00000704723747

472	minimi	0.119662	-0.06922	-13.671554	-0.000342875425494	-0.000420510026343	0.00000704723747
473	massimi	0.121975	-0.069152	-13.548753	-0.000406975923001	-0.000413032444817	0.00000713910147
473	minimi	0.121975	-0.069152	-13.548753	-0.000406975923001	-0.000413032444817	0.00000713910147
474	massimi	0.124212	-0.069086	-13.407294	-0.000470420931879	-0.000421714991755	0.000006802372005
474	minimi	0.124212	-0.069086	-13.407294	-0.000470420931879	-0.000421714991755	0.000006802372005
475	massimi	-0.147725	-0.031085	-7.410266	-0.000170936695452	0.000140023402128	0.00000356884263
475	minimi	-0.147725	-0.031085	-7.410266	-0.000170936695452	0.000140023402128	0.00000356884263
476	massimi	-0.147678	-0.028908	-7.471691	-0.000181242038409	0.000062799712195	0.000003418630278
476	minimi	-0.147678	-0.028908	-7.471691	-0.000181242038409	0.000062799712195	0.000003418630278
477	massimi	-0.147634	-0.02667	-7.488486	-0.000171599257023	-0.000014888957296	0.000003679327108
477	minimi	-0.147634	-0.02667	-7.488486	-0.000171599257023	-0.000014888957296	0.000003679327108
478	massimi	-0.149649	-0.024468	-7.547897	-0.000135573114599	-0.000059010940443	0.000003518811944
478	minimi	-0.149649	-0.024468	-7.547897	-0.000135573114599	-0.000059010940443	0.000003518811944
479	massimi	-0.151592	-0.024608	-7.61013	-0.000095059598717	-0.000059448229144	0.000003455969517
479	minimi	-0.151592	-0.024608	-7.61013	-0.000095059598717	-0.000059448229144	0.000003455969517
480	massimi	-0.153409	-0.024731	-7.652138	-0.000054151386956	-0.000059884130526	0.000003334398592
480	minimi	-0.153409	-0.024731	-7.652138	-0.000054151386956	-0.000059884130526	0.000003334398592
481	massimi	-0.155161	-0.026866	-7.697715	-0.000018119153077	-0.000015751769679	0.000003135109606
481	minimi	-0.155161	-0.026866	-7.697715	-0.000018119153077	-0.000015751769679	0.000003135109606
482	massimi	-0.155106	-0.028908	-7.681072	-0.000008007248995	0.000062799712195	0.000003476740094
482	minimi	-0.155106	-0.028908	-7.681072	-0.000008007248995	0.000062799712195	0.000003476740094
483	massimi	-0.15507	-0.03089	-7.619495	-0.000018781714648	0.00014088621451	0.000003024625129
483	minimi	-0.15507	-0.03089	-7.619495	-0.000018781714648	0.00014088621451	0.000003024625129
484	massimi	-0.153361	-0.032916	-7.495449	-0.000054671256721	0.000184559664947	0.000003181600421
484	minimi	-0.153361	-0.032916	-7.495449	-0.000054671256721	0.000184559664947	0.000003181600421
485	massimi	-0.151592	-0.033046	-7.453431	-0.000095059598717	0.000183972017309	0.000003444136673
485	minimi	-0.151592	-0.033046	-7.453431	-0.000095059598717	0.000183972017309	0.000003444136673
486	massimi	-0.149697	-0.033178	-7.391209	-0.000135053244834	0.000183686474864	0.000003366013772
486	minimi	-0.149697	-0.033178	-7.391209	-0.000135053244834	0.000183686474864	0.000003366013772
487	massimi	-0.00993	-0.026738	-9.516797	-0.000269636031029	0.000094812154081	-0.000001634726108
487	minimi	-0.00993	-0.026738	-9.516797	-0.000269636031029	0.000094812154081	-0.000001634726108
488	massimi	-0.009884	-0.027766	-9.541638	-0.000282678199382	-0.000007433543453	-0.000001643386563
488	minimi	-0.009884	-0.027766	-9.541638	-0.000282678199382	-0.000007433543453	-0.000001643386563
489	massimi	-0.009843	-0.028737	-9.507538	-0.000269557604288	-0.000109624201996	-0.000001528604023
489	minimi	-0.009843	-0.028737	-9.507538	-0.000269557604288	-0.000109624201996	-0.000001528604023
490	massimi	-0.008984	-0.029689	-9.553447	-0.000222027148938	-0.000167630544461	-0.000001517083583
490	minimi	-0.008984	-0.029689	-9.553447	-0.000222027148938	-0.000167630544461	-0.000001517083583
491	massimi	-0.008126	-0.029698	-9.659429	-0.000168923374866	-0.000168297968415	-0.000001637274401
491	minimi	-0.008126	-0.029698	-9.659429	-0.000168923374866	-0.000168297968415	-0.000001637274401
492	massimi	-0.007262	-0.029703	-9.738685	-0.000115118213649	-0.000169182226242	-0.000001526969008
492	minimi	-0.007262	-0.029703	-9.738685	-0.000115118213649	-0.000169182226242	-0.000001526969008
493	massimi	-0.006389	-0.028747	-9.879343	-0.000067576938097	-0.000111157441422	-0.000001557776787
493	minimi	-0.006389	-0.028747	-9.879343	-0.000067576938097	-0.000111157441422	-0.000001557776787
494	massimi	-0.006347	-0.027766	-9.913713	-0.000053622696216	-0.000007433543453	-0.000001640271662
494	minimi	-0.006347	-0.027766	-9.913713	-0.000053622696216	-0.000007433543453	-0.000001640271662
495	massimi	-0.006301	-0.026728	-9.888602	-0.000067498511356	0.000096345393506	-0.000001663898873
495	minimi	-0.006301	-0.026728	-9.888602	-0.000067498511356	0.000096345393506	-0.000001663898873
496	massimi	-0.007216	-0.025667	-9.757232	-0.00011505667714	0.000154424499469	-0.000001673733607
496	minimi	-0.007216	-0.025667	-9.757232	-0.00011505667714	0.000154424499469	-0.000001673733607
497	massimi	-0.008126	-0.025679	-9.677977	-0.000168923374866	0.000153558203553	-0.000001648639358
497	minimi	-0.008126	-0.025679	-9.677977	-0.000168923374866	0.000153558203553	-0.000001648639358
498	massimi	-0.009029	-0.025681	-9.571994	-0.000222088685447	0.000152872817688	-0.000001663848182
498	minimi	-0.009029	-0.025681	-9.571994	-0.000222088685447	0.000152872817688	-0.000001663848182
499	massimi	0.040295	-0.170798	-8.47704	-0.000777789902378	-0.000128774729517	-0.000015373413791
499	minimi	0.040295	-0.170798	-8.47704	-0.000777789902378	-0.000128774729517	-0.000015373413791
500	massimi	0.040398	-0.175795	-8.428087	-0.000781972375609	-0.00016939990472	-0.00001530310364
500	minimi	0.040398	-0.175795	-8.428087	-0.000781972375609	-0.00016939990472	-0.00001530310364
501	massimi	0.040488	-0.180682	-8.367045	-0.000777288346845	-0.00020975223894	-0.000015020504187
501	minimi	0.040488	-0.180682	-8.367045	-0.000777288346845	-0.00020975223894	-0.000015020504187
502	massimi	0.045411	-0.185516	-8.542596	-0.00074985295708	-0.000237313528305	-0.000014838968482
502	minimi	0.045411	-0.185516	-8.542596	-0.00074985295708	-0.000237313528305	-0.000014838968482
503	massimi	0.050295	-0.185487	-8.778936	-0.000709197012833	-0.00024324646887	-0.000015317799325
503	minimi	0.050295	-0.185487	-8.778936	-0.000709197012833	-0.00024324646887	-0.000015317799325
504	massimi	0.055148	-0.185461	-9.003096	-0.000667398812864	-0.00023941330331	-0.000014738000786
504	minimi	0.055148	-0.185461	-9.003096	-0.000667398812864	-0.00023941330331	-0.000014738000786
505	massimi	0.060009	-0.180649	-9.28883	-0.000639472863355	-0.000211692273387	-0.000014838769103
505	minimi	0.060009	-0.180649	-9.28883	-0.000639472863355	-0.000211692273387	-0.000014838769103
506	massimi	0.060101	-0.175795	-9.349993	-0.000633606915397	-0.00016939990472	-0.000015309590148
506	minimi	0.060101	-0.175795	-9.349993	-0.000633606915397	-0.00016939990472	-0.000015309590148

507	massimi	0.060201	-0.170831	-9.398826	-0.000638971307822	-0.00012683469507	-0.000015191678707
507	minimi	0.060201	-0.170831	-9.398826	-0.000638971307822	-0.00012683469507	-0.000015191678707
508	massimi	0.055262	-0.165803	-9.223275	-0.000666935413209	-0.000098996489281	-0.000015373214412
508	minimi	0.055262	-0.165803	-9.223275	-0.000666935413209	-0.000098996489281	-0.000015373214412
509	massimi	0.050295	-0.165784	-8.999144	-0.000709197012833	-0.000094881008658	-0.000015294801186
509	minimi	0.050295	-0.165784	-8.999144	-0.000709197012833	-0.000094881008658	-0.000015294801186
510	massimi	0.045297	-0.165748	-8.762775	-0.000750316356734	-0.000101096264286	-0.000015474182108
510	minimi	0.045297	-0.165748	-8.762775	-0.000750316356734	-0.000101096264286	-0.000015474182108
511	massimi	-0.202773	0.029764	-11.90989	-0.000142548728222	0.000710162272332	0.000009795290839
511	minimi	-0.202773	0.029764	-11.90989	-0.000142548728222	0.000710162272332	0.000009795290839
512	massimi	-0.202798	0.032902	-12.130382	-0.000150483495006	0.000652928578277	0.000009495170928
512	minimi	-0.202798	0.032902	-12.130382	-0.000150483495006	0.000652928578277	0.000009495170928
513	massimi	-0.202809	0.03602	-12.333854	-0.000144481904876	0.000594643256266	0.000009729240012
513	minimi	-0.202809	0.03602	-12.333854	-0.000144481904876	0.000594643256266	0.000009729240012
514	massimi	-0.205994	0.039109	-12.561519	-0.000105790894243	0.00055578897168	0.000009534921454
514	minimi	-0.205994	0.039109	-12.561519	-0.000105790894243	0.00055578897168	0.000009534921454
515	massimi	-0.209108	0.038992	-12.585384	-0.00004711183302	0.000548167719796	0.000009511001256
515	minimi	-0.209108	0.038992	-12.585384	-0.00004711183302	0.000548167719796	0.000009511001256
516	massimi	-0.212092	0.03888	-12.59211	0.000011643108051	0.000555649483995	0.000009115135172
516	minimi	-0.212092	0.03888	-12.59211	0.000011643108051	0.000555649483995	0.000009115135172
517	massimi	-0.21502	0.035883	-12.395088	0.000050366706482	0.000594514380118	0.000008973652848
517	minimi	-0.21502	0.035883	-12.395088	0.000050366706482	0.000594514380118	0.000008973652848
518	massimi	-0.215039	0.032902	-12.191624	0.000056446811295	0.000652928578277	0.000009522527235
518	minimi	-0.215039	0.032902	-12.191624	0.000056446811295	0.000652928578277	0.000009522527235
519	massimi	-0.215056	0.0299	-11.971124	0.000048433529827	0.000710291148479	0.000009039703676
519	minimi	-0.215056	0.0299	-11.971124	0.000048433529827	0.000710291148479	0.000009039703676
520	massimi	-0.212114	0.026863	-11.743459	0.00000985699797	0.000748704406383	0.000009234022233
520	minimi	-0.212114	0.026863	-11.743459	0.00000985699797	0.000748704406383	0.000009234022233
521	massimi	-0.209108	0.026752	-11.736623	-0.00004711183302	0.000755098026097	0.000009506696907
521	minimi	-0.209108	0.026752	-11.736623	-0.00004711183302	0.000755098026097	0.000009506696907
522	massimi	-0.205973	0.026633	-11.712868	-0.000104004784163	0.000748564918699	0.000009653808515
522	minimi	-0.205973	0.026633	-11.712868	-0.000104004784163	0.000748564918699	0.000009653808515
523	massimi	0.040917	-0.011495	-11.390537	-0.000247415185845	-0.000402975747463	-0.000002483391662
523	minimi	0.040917	-0.011495	-11.390537	-0.000247415185845	-0.000402975747463	-0.000002483391662
524	massimi	0.040925	-0.012293	-11.250101	-0.000253125033007	-0.000456907690334	-0.000002423173085
524	minimi	0.040925	-0.012293	-11.250101	-0.000253125033007	-0.000456907690334	-0.000002423173085
525	massimi	0.04093	-0.013084	-11.093855	-0.000246062383548	-0.000510103722851	-0.000002458713477
525	minimi	0.04093	-0.013084	-11.093855	-0.000246062383548	-0.000510103722851	-0.000002458713477
526	massimi	0.041735	-0.013867	-10.996388	-0.000210236972035	-0.000545859234247	-0.000002414698085
526	minimi	0.041735	-0.013867	-10.996388	-0.000210236972035	-0.000545859234247	-0.000002414698085
527	massimi	0.042525	-0.013843	-11.055308	-0.000157209505397	-0.000552228481324	-0.000002426758837
527	minimi	0.042525	-0.013843	-11.055308	-0.000157209505397	-0.000552228481324	-0.000002426758837
528	massimi	0.043289	-0.01382	-11.098468	-0.000103928832027	-0.000546324696712	-0.000002329328565
528	minimi	0.043289	-0.01382	-11.098468	-0.000103928832027	-0.000546324696712	-0.000002329328565
529	massimi	0.044041	-0.013056	-11.298189	-0.000067994676888	-0.000510533775221	-0.000002305054065
529	minimi	0.044041	-0.013056	-11.298189	-0.000067994676888	-0.000510533775221	-0.000002305054065
530	massimi	0.044048	-0.012293	-11.454462	-0.000060670028396	-0.000456907690334	-0.00000242873638
530	minimi	0.044048	-0.012293	-11.454462	-0.000060670028396	-0.000456907690334	-0.00000242873638
531	massimi	0.044055	-0.011522	-11.594872	-0.000066641874591	-0.000402545695093	-0.00000232973225
531	minimi	0.044055	-0.011522	-11.594872	-0.000066641874591	-0.000402545695093	-0.00000232973225
532	massimi	0.043297	-0.010743	-11.692338	-0.000102678944277	-0.00036643872529	-0.000002373747643
532	minimi	0.043297	-0.010743	-11.692338	-0.000102678944277	-0.00036643872529	-0.000002373747643
533	massimi	0.042525	-0.01072	-11.649255	-0.000157209505397	-0.000359773476713	-0.000002425150628
533	minimi	0.042525	-0.01072	-11.649255	-0.000157209505397	-0.000359773476713	-0.000002425150628
534	massimi	0.041727	-0.010696	-11.590258	-0.000211486859785	-0.000366904187755	-0.000002459117163
534	minimi	0.041727	-0.010696	-11.590258	-0.000211486859785	-0.000366904187755	-0.000002459117163
535	massimi	-0.01929	-0.000698	-11.993366	-0.000251480002901	-0.000271357318223	-0.000018119688792
535	minimi	-0.01929	-0.000698	-11.993366	-0.000251480002901	-0.000271357318223	-0.000018119688792
536	massimi	-0.019281	-0.006608	-11.895123	-0.000257771534781	-0.000328409831935	-0.000018367273613
536	minimi	-0.019281	-0.006608	-11.895123	-0.000257771534781	-0.000328409831935	-0.000018367273613
537	massimi	-0.019283	-0.012513	-11.78012	-0.000250507654253	-0.000384933398114	-0.000018106424091
537	minimi	-0.019283	-0.012513	-11.78012	-0.000250507654253	-0.000384933398114	-0.000018106424091
538	massimi	-0.013372	-0.018425	-11.724078	-0.000212514330277	-0.000422886530528	-0.000018107113215
538	minimi	-0.013372	-0.018425	-11.724078	-0.000212514330277	-0.000422886530528	-0.000018107113215
539	massimi	-0.007466	-0.018423	-11.783119	-0.000156087687053	-0.000429751714662	-0.000018367217473
539	minimi	-0.007466	-0.018423	-11.783119	-0.000156087687053	-0.000429751714662	-0.000018367217473
540	massimi	-0.001555	-0.018433	-11.82543	-0.000099409643935	-0.000423348671538	-0.00001812210087
540	minimi	-0.001555	-0.018433	-11.82543	-0.000099409643935	-0.000423348671538	-0.00001812210087
541	massimi	0.004365	-0.012518	-11.982997	-0.000061308352308	-0.000385360381708	-0.000018133400865

541	minimi	0.004365	-0.012518	-11.982997	-0.000061308352308	-0.000385360381708	-0.000018133400865
542	massimi	0.004362	-0.006608	-12.098026	-0.000053784342324	-0.000328409831935	-0.000018366296909
542	minimi	0.004362	-0.006608	-12.098026	-0.000053784342324	-0.000328409831935	-0.000018366296909
543	massimi	0.004372	-0.000693	-12.196242	-0.00006033600366	-0.000270930334629	-0.000018146665566
543	minimi	0.004372	-0.000693	-12.196242	-0.00006033600366	-0.000270930334629	-0.000018146665566
544	massimi	-0.001551	0.00523	-12.252284	-0.000098511266792	-0.000232714879935	-0.000018145976442
544	minimi	-0.001551	0.00523	-12.252284	-0.000098511266792	-0.000232714879935	-0.000018145976442
545	massimi	-0.007466	0.00522	-12.210029	-0.000156087687053	-0.000225764522205	-0.00001836635305
545	minimi	-0.007466	0.00522	-12.210029	-0.000156087687053	-0.000225764522205	-0.00001836635305
546	massimi	-0.013376	0.005222	-12.150932	-0.000213412707421	-0.000233177020946	-0.000018130988788
546	minimi	-0.013376	0.005222	-12.150932	-0.000213412707421	-0.000233177020946	-0.000018130988788
547	massimi	0.056549	-0.057055	-9.077348	-0.000420669268028	-0.00056059482316	-0.000010204750464
547	minimi	0.056549	-0.057055	-9.077348	-0.000420669268028	-0.00056059482316	-0.000010204750464
548	massimi	0.056587	-0.060364	-8.887755	-0.000424646360997	-0.000603190395337	-0.000010158803522
548	minimi	0.056587	-0.060364	-8.887755	-0.000424646360997	-0.000603190395337	-0.000010158803522
549	massimi	0.056615	-0.063636	-8.68568	-0.000418883355098	-0.00064481444949	-0.00001008356879
549	minimi	0.056615	-0.063636	-8.68568	-0.000418883355098	-0.00064481444949	-0.00001008356879
550	massimi	0.059915	-0.066887	-8.603058	-0.000390618255018	-0.000673020295439	-0.00000998436661
550	minimi	0.059915	-0.066887	-8.603058	-0.000390618255018	-0.000673020295439	-0.00000998436661
551	massimi	0.063185	-0.066851	-8.72263	-0.000349137093683	-0.000678195506105	-0.000010166885113
551	minimi	0.063185	-0.066851	-8.72263	-0.000349137093683	-0.000678195506105	-0.000010166885113
552	massimi	0.066416	-0.066818	-8.829762	-0.000307093600815	-0.00067405401291	-0.000009857522045
552	minimi	0.066416	-0.066818	-8.829762	-0.000307093600815	-0.00067405401291	-0.000009857522045
553	massimi	0.069638	-0.063595	-9.139475	-0.000278586998585	-0.000645769526819	-0.000009855257079
553	minimi	0.069638	-0.063595	-9.139475	-0.000278586998585	-0.000645769526819	-0.000009855257079
554	massimi	0.069669	-0.060364	-9.341609	-0.00027224213486	-0.000603190395337	-0.00001016706963
554	minimi	0.069669	-0.060364	-9.341609	-0.00027224213486	-0.000603190395337	-0.00001016706963
555	massimi	0.069704	-0.057096	-9.531142	-0.000276801085655	-0.000559639745831	-0.000009976438752
555	minimi	0.069704	-0.057096	-9.531142	-0.000276801085655	-0.000559639745831	-0.000009976438752
556	massimi	0.066455	-0.053798	-9.613765	-0.000305443551359	-0.000530938025995	-0.000010075640933
556	minimi	0.066455	-0.053798	-9.613765	-0.000305443551359	-0.000530938025995	-0.000010075640933
557	massimi	0.063185	-0.053768	-9.506734	-0.000349137093683	-0.000525791279968	-0.00001015898804
557	minimi	0.063185	-0.053768	-9.506734	-0.000349137093683	-0.000525791279968	-0.00001015898804
558	massimi	0.059875	-0.053729	-9.387061	-0.000392268304474	-0.000531971743466	-0.000010202485497
558	minimi	0.059875	-0.053729	-9.387061	-0.000392268304474	-0.000531971743466	-0.000010202485497
559	massimi	0.116005	-0.04009	-10.901149	-0.00039228060211	-0.000297354006693	-0.000013965113813
559	minimi	0.116005	-0.04009	-10.901149	-0.00039228060211	-0.000297354006693	-0.000013965113813
560	massimi	0.116036	-0.04461	-10.795404	-0.000397809187878	-0.00034920403646	-0.000013867671497
560	minimi	0.116036	-0.04461	-10.795404	-0.000397809187878	-0.00034920403646	-0.000013867671497
561	massimi	0.116053	-0.049102	-10.674402	-0.000391246686436	-0.000400491626873	-0.00001387555955
561	minimi	0.116053	-0.049102	-10.674402	-0.000391246686436	-0.000400491626873	-0.00001387555955
562	massimi	0.120591	-0.053572	-10.660154	-0.000356658010768	-0.000435070084753	-0.000013739309182
562	minimi	0.120591	-0.053572	-10.660154	-0.000356658010768	-0.000435070084753	-0.000013739309182
563	massimi	0.125081	-0.0535	-10.76693	-0.000305395060806	-0.000441531226728	-0.00001387877125
563	minimi	0.125081	-0.0535	-10.76693	-0.000305395060806	-0.000441531226728	-0.00001387877125
564	massimi	0.129492	-0.053435	-10.858455	-0.000253640231649	-0.000435974291769	-0.000013488208973
564	minimi	0.129492	-0.053435	-10.858455	-0.000253640231649	-0.000435974291769	-0.000013488208973
565	massimi	0.133876	-0.04902	-11.071342	-0.000218840310699	-0.000401327046266	-0.00001342359601
565	minimi	0.133876	-0.04902	-11.071342	-0.000218840310699	-0.000401327046266	-0.00001342359601
566	massimi	0.133898	-0.04461	-11.192396	-0.000211768850142	-0.00034920403646	-0.000013884035
566	minimi	0.133898	-0.04461	-11.192396	-0.000211768850142	-0.00034920403646	-0.000013884035
567	massimi	0.133925	-0.040171	-11.298089	-0.000217806395025	-0.0002965185873	-0.000013513150273
567	minimi	0.133925	-0.040171	-11.298089	-0.000217806395025	-0.0002965185873	-0.000013513150273
568	massimi	0.129521	-0.035701	-11.312337	-0.000252684971196	-0.000261629793342	-0.000013649400641
568	minimi	0.129521	-0.035701	-11.312337	-0.000252684971196	-0.000261629793342	-0.000013649400641
569	massimi	0.125081	-0.035638	-11.22087	-0.000305395060806	-0.000255490888993	-0.000013872935247
569	minimi	0.125081	-0.035638	-11.22087	-0.000305395060806	-0.000255490888993	-0.000013872935247
570	massimi	0.120562	-0.035564	-11.114036	-0.000357613271221	-0.000262534000359	-0.00001390050085
570	minimi	0.120562	-0.035564	-11.114036	-0.000357613271221	-0.000262534000359	-0.00001390050085
571	massimi	0.178906	-0.346818	-3.143721	-0.001629204046405	-0.000486121766779	0.000020768620322
571	minimi	0.178906	-0.346818	-3.143721	-0.001629204046405	-0.000486121766779	0.000020768620322
572	massimi	0.179088	-0.339998	-2.9833	-0.001629202597646	-0.000501462264358	0.000021703046497
572	minimi	0.179088	-0.339998	-2.9833	-0.001629202597646	-0.000501462264358	0.000021703046497
573	massimi	0.179279	-0.332965	-2.818108	-0.0016277193279	-0.000515995090541	0.000021451168099
573	minimi	0.179279	-0.332965	-2.818108	-0.0016277193279	-0.000515995090541	0.000021451168099
574	massimi	0.172316	-0.325804	-3.175935	-0.001616886441643	-0.000527084598897	0.000021856870772
574	minimi	0.172316	-0.325804	-3.175935	-0.001616886441643	-0.000527084598897	0.000021856870772
575	massimi	0.165277	-0.325727	-3.698439	-0.001601734764862	-0.00053111353495	0.000021669995582
575	minimi	0.165277	-0.325727	-3.698439	-0.001601734764862	-0.00053111353495	0.000021669995582

576	massimi	0.158134	-0.325623	-4.215984	-0.00158400328209	-0.000531826980158	0.000022188664686
576	minimi	0.158134	-0.325623	-4.215984	-0.00158400328209	-0.000531826980158	0.000022188664686
577	massimi	0.150968	-0.332858	-4.899978	-0.001572062457446	-0.000520376694754	0.000022048374899
577	minimi	0.150968	-0.332858	-4.899978	-0.001572062457446	-0.000520376694754	0.000022048374899
578	massimi	0.151165	-0.339998	-5.065442	-0.001567909801017	-0.000501462264358	0.000021681424409
578	minimi	0.151165	-0.339998	-5.065442	-0.001567909801017	-0.000501462264358	0.000021681424409
579	massimi	0.151341	-0.346926	-5.225591	-0.001570577738941	-0.000481740162567	0.000021365827122
579	minimi	0.151341	-0.346926	-5.225591	-0.001570577738941	-0.000481740162567	0.000021365827122
580	massimi	0.158355	-0.353742	-4.867764	-0.001582631513669	-0.000469943009938	0.000020960124449
580	minimi	0.158355	-0.353742	-4.867764	-0.001582631513669	-0.000469943009938	0.000020960124449
581	massimi	0.165277	-0.353651	-4.350304	-0.001601734764862	-0.000469820738321	0.000021714475325
581	minimi	0.165277	-0.353651	-4.350304	-0.001601734764862	-0.000469820738321	0.000021714475325
582	massimi	0.172095	-0.353561	-3.827715	-0.001618258210065	-0.000474685391199	0.000020628330535
582	minimi	0.172095	-0.353561	-3.827715	-0.001618258210065	-0.000474685391199	0.000020628330535
583	massimi	0.185382	-0.086565	-7.890775	-0.000498802827157	-0.000616903195551	0.000000407041156
583	minimi	0.185382	-0.086565	-7.890775	-0.000498802827157	-0.000616903195551	0.000000407041156
584	massimi	0.185432	-0.086382	-7.683938	-0.00050193696366	-0.00065368357318	0.000000851174423
584	minimi	0.185432	-0.086382	-7.683938	-0.00050193696366	-0.00065368357318	0.000000851174423
585	massimi	0.185476	-0.086146	-7.466321	-0.00049686741513	-0.000689411106834	0.000000580454015
585	minimi	0.185476	-0.086146	-7.466321	-0.00049686741513	-0.000689411106834	0.000000580454015
586	massimi	0.185301	-0.085863	-7.395808	-0.000472470632927	-0.000713757319361	0.00000079840489
586	minimi	0.185301	-0.085863	-7.395808	-0.000472470632927	-0.000713757319361	0.00000079840489
587	massimi	0.185061	-0.085764	-7.543013	-0.000436865049311	-0.000718325221607	0.000000833418869
587	minimi	0.185061	-0.085764	-7.543013	-0.000436865049311	-0.000718325221607	0.000000833418869
588	massimi	0.184705	-0.08566	-7.679476	-0.00040055583667	-0.000715050779844	0.000001169914887
588	minimi	0.184705	-0.08566	-7.679476	-0.00040055583667	-0.000715050779844	0.000001169914887
589	massimi	0.184301	-0.086025	-8.034141	-0.00037585686988	-0.000690606167204	0.000001249147101
589	minimi	0.184301	-0.086025	-8.034141	-0.00037585686988	-0.000690606167204	0.000001249147101
590	massimi	0.184352	-0.086382	-8.251831	-0.000370059259644	-0.00065368357318	0.000000826964149
590	minimi	0.184352	-0.086382	-8.251831	-0.000370059259644	-0.00065368357318	0.000000826964149
591	massimi	0.184396	-0.086686	-8.458595	-0.000373921457853	-0.000615708135181	0.000001075734241
591	minimi	0.184396	-0.086686	-8.458595	-0.000373921457853	-0.000615708135181	0.000001075734241
592	massimi	0.184761	-0.086944	-8.529108	-0.000398767661274	-0.000590811362083	0.000000857783366
592	minimi	0.184761	-0.086944	-8.529108	-0.000398767661274	-0.000590811362083	0.000000857783366
593	massimi	0.185061	-0.086844	-8.392756	-0.000436865049311	-0.000586447517591	0.000000844719703
593	minimi	0.185061	-0.086844	-8.392756	-0.000436865049311	-0.000586447517591	0.000000844719703
594	massimi	0.185245	-0.086741	-8.24544	-0.000474258808323	-0.000592104822567	0.00000048627337
594	minimi	0.185245	-0.086741	-8.24544	-0.000474258808323	-0.000592104822567	0.00000048627337
595	massimi	0.220023	-0.066862	-3.387499	-0.000495317966079	-0.001470582879775	0.000019130345179
595	minimi	0.220023	-0.066862	-3.387499	-0.000495317966079	-0.001470582879775	0.000019130345179
596	massimi	0.220054	-0.060569	-2.907516	-0.000494312114875	-0.001484208051672	0.000019838886312
596	minimi	0.220054	-0.060569	-2.907516	-0.000494312114875	-0.001484208051672	0.000019838886312
597	massimi	0.220089	-0.054238	-2.423763	-0.00049092355534	-0.001495442709916	0.00001925193715
597	minimi	0.220089	-0.054238	-2.423763	-0.00049092355534	-0.001495442709916	0.00001925193715
598	massimi	0.213817	-0.047859	-2.094528	-0.000482517932628	-0.001503612215883	0.000019467164397
598	minimi	0.213817	-0.047859	-2.094528	-0.000482517932628	-0.001503612215883	0.000019467164397
599	massimi	0.207482	-0.047753	-2.249521	-0.000471852675809	-0.001504658520231	0.00001982135264
599	minimi	0.207482	-0.047753	-2.249521	-0.000471852675809	-0.001504658520231	0.00001982135264
600	massimi	0.201018	-0.047632	-2.400915	-0.000460427437758	-0.001505009266966	0.000019883685641
600	minimi	0.201018	-0.047632	-2.400915	-0.000460427437758	-0.001505009266966	0.000019883685641
601	massimi	0.194489	-0.054103	-3.037058	-0.000451695429114	-0.001496733480222	0.000020001647463
601	minimi	0.194489	-0.054103	-3.037058	-0.000451695429114	-0.001496733480222	0.000020001647463
602	massimi	0.194533	-0.060569	-3.520892	-0.000447520498903	-0.001484208051672	0.000019811742779
602	minimi	0.194533	-0.060569	-3.520892	-0.000447520498903	-0.001484208051672	0.000019811742779
603	massimi	0.194556	-0.066997	-4.000794	-0.000447301018375	-0.001469292109469	0.000019880055492
603	minimi	0.194556	-0.066997	-4.000794	-0.000447301018375	-0.001469292109469	0.000019880055492
604	massimi	0.201057	-0.073393	-4.330029	-0.000456367332181	-0.001459989678919	0.000019664828245
604	minimi	0.201057	-0.073393	-4.330029	-0.000456367332181	-0.001459989678919	0.000019664828245
605	massimi	0.207482	-0.073274	-4.178887	-0.000471852675809	-0.001457866904259	0.000019829276451
605	minimi	0.207482	-0.073274	-4.178887	-0.000471852675809	-0.001457866904259	0.000019829276451
606	massimi	0.213777	-0.073165	-4.023643	-0.000486578038205	-0.001461386730002	0.000019248307001
606	minimi	0.213777	-0.073165	-4.023643	-0.000486578038205	-0.001461386730002	0.000019248307001
607	massimi	0.017997	0.019223	-7.938117	0.00000558275135	0.000099624100041	0.000003520587881
607	minimi	0.017997	0.019223	-7.938117	0.00000558275135	0.000099624100041	0.000003520587881
608	massimi	0.017985	0.020375	-7.963958	0.000000972296365	0.000062968418314	0.000003576289933
608	minimi	0.017985	0.020375	-7.963958	0.000000972296365	0.000062968418314	0.000003576289933
609	massimi	0.017975	0.021514	-7.979004	0.000005371839619	0.000026211317608	0.00000347968467
609	minimi	0.017975	0.021514	-7.979004	0.000005371839619	0.000026211317608	0.00000347968467
610	massimi	0.016837	0.02265	-7.977816	0.000029865642526	0.000001718366539	0.000003475929417

610	minimi	0.016837	0.02265	-7.977816	0.000029865642526	0.000001718366539	0.000003475929417
611	massimi	0.015698	0.022658	-7.961584	0.000066620689004	-0.00000267272657	0.000003576595858
611	minimi	0.015698	0.022658	-7.961584	0.000066620689004	-0.00000267272657	0.000003576595858
612	massimi	0.014549	0.022667	-7.934558	0.000103268434039	0.000001915615618	0.000003507443708
612	minimi	0.014549	0.022667	-7.934558	0.000103268434039	0.000001915615618	0.000003507443708
613	massimi	0.013392	0.021524	-7.892413	0.000127716154647	0.000026393560947	0.000003536408281
613	minimi	0.013392	0.021524	-7.892413	0.000127716154647	0.000026393560947	0.000003536408281
614	massimi	0.013383	0.020375	-7.877355	0.000132004670543	0.000062968418314	0.000003574236234
614	minimi	0.013383	0.020375	-7.877355	0.000132004670543	0.000062968418314	0.000003574236234
615	massimi	0.01337	0.019213	-7.851526	0.000127529719132	0.000099441856702	0.000003577311493
615	minimi	0.01337	0.019213	-7.851526	0.000127529719132	0.000099441856702	0.000003577311493
616	massimi	0.014536	0.018045	-7.852714	0.00010309618162	0.000123876246051	0.000003581066746
616	minimi	0.014536	0.018045	-7.852714	0.00010309618162	0.000123876246051	0.000003581066746
617	massimi	0.015698	0.018055	-7.879729	0.000066620689004	0.000128359647608	0.000003573930309
617	minimi	0.015698	0.018055	-7.879729	0.000066620689004	0.000128359647608	0.000003573930309
618	massimi	0.01685	0.018062	-7.895973	0.000030037894945	0.00012407349513	0.000003549552455
618	minimi	0.01685	0.018062	-7.895973	0.000030037894945	0.00012407349513	0.000003549552455
619	massimi	-0.008226	0.014435	-11.320876	-0.000048099589196	0.000248239560273	0.000002386851503
619	minimi	-0.008226	0.014435	-11.320876	-0.000048099589196	0.000248239560273	0.000002386851503
620	massimi	-0.008235	0.015211	-11.391953	-0.000054947035337	0.000194496861578	0.000002384474074
620	minimi	-0.008235	0.015211	-11.391953	-0.000054947035337	0.000194496861578	0.000002384474074
621	massimi	-0.008242	0.015977	-11.447168	-0.00004867545125	0.000140440899926	0.000002356315899
621	minimi	-0.008242	0.015977	-11.447168	-0.00004867545125	0.000140440899926	0.000002356315899
622	massimi	-0.009013	0.016738	-11.496932	-0.000012665477824	0.000104395236802	0.000002336250768
622	minimi	-0.009013	0.016738	-11.496932	-0.000012665477824	0.000104395236802	0.000002336250768
623	massimi	-0.009779	0.016732	-11.491411	0.000041476550426	0.000097769614374	0.000002386108697
623	minimi	-0.009779	0.016732	-11.491411	0.000041476550426	0.000097769614374	0.000002386108697
624	massimi	-0.010539	0.016727	-11.47	0.000095551775198	0.000104518039665	0.000002316619341
624	minimi	-0.010539	0.016727	-11.47	0.000095551775198	0.000104518039665	0.000002316619341
625	massimi	-0.011298	0.01597	-11.393258	0.000131533058817	0.000140554360551	0.000002320980646
625	minimi	-0.011298	0.01597	-11.393258	0.000131533058817	0.000140554360551	0.000002320980646
626	massimi	-0.011305	0.015211	-11.338036	0.000137735519754	0.000194496861578	0.000002385753399
626	minimi	-0.011305	0.015211	-11.338036	0.000137735519754	0.000194496861578	0.000002385753399
627	massimi	-0.011314	0.014442	-11.266966	0.000130957196763	0.000248126099648	0.000002351516251
627	minimi	-0.011314	0.014442	-11.266966	0.000130957196763	0.000248126099648	0.000002351516251
628	massimi	-0.010548	0.013666	-11.217201	0.000095019721898	0.000284027884814	0.000002371581381
628	minimi	-0.010548	0.013666	-11.217201	0.000095019721898	0.000284027884814	0.000002371581381
629	massimi	-0.009779	0.013662	-11.238579	0.000041476550426	0.000290452169465	0.000002384118776
629	minimi	-0.009779	0.013662	-11.238579	0.000041476550426	0.000290452169465	0.000002384118776
630	massimi	-0.009003	0.013655	-11.244133	-0.000012133424523	0.000284150687678	0.000002391212808
630	minimi	-0.009003	0.013655	-11.244133	-0.000012133424523	0.000284150687678	0.000002391212808
631	massimi	-0.01533	0.0053	-11.505577	-0.000087586891015	0.000345120575326	0.000002938519139
631	minimi	-0.01533	0.0053	-11.505577	-0.000087586891015	0.000345120575326	0.000002938519139
632	massimi	-0.015335	0.006254	-11.607933	-0.000094690532735	0.000290303846691	0.000002938412361
632	minimi	-0.015335	0.006254	-11.607933	-0.000094690532735	0.000290303846691	0.000002938412361
633	massimi	-0.015337	0.007203	-11.694079	-0.000088446416295	0.00023501954526	0.000002925964866
633	minimi	-0.015337	0.007203	-11.694079	-0.000088446416295	0.00023501954526	0.000002925964866
634	massimi	-0.016293	0.00815	-11.787251	-0.000051635120736	0.000198141429372	0.000002907099139
634	minimi	-0.016293	0.00815	-11.787251	-0.000051635120736	0.000198141429372	0.000002907099139
635	massimi	-0.017242	0.00814	-11.794144	0.000003810319587	0.000191234461757	0.000002939949273
635	minimi	-0.017242	0.00814	-11.794144	0.000003810319587	0.000191234461757	0.000002939949273
636	massimi	-0.018181	0.008131	-11.784777	0.000059249622885	0.000198152710883	0.000002872485138
636	minimi	-0.018181	0.008131	-11.784777	0.000059249622885	0.000198152710883	0.000002872485138
637	massimi	-0.019116	0.007192	-11.689126	0.000096058282802	0.000235029968529	0.000002863661987
637	minimi	-0.019116	0.007192	-11.689126	0.000096058282802	0.000235029968529	0.000002863661987
638	massimi	-0.019119	0.006254	-11.60298	0.000102296049117	0.000290303846691	0.000002940668059
638	minimi	-0.019119	0.006254	-11.60298	0.000102296049117	0.000290303846691	0.000002940668059
639	massimi	-0.019123	0.005311	-11.500624	0.000095198757522	0.000345110152057	0.000002876216259
639	minimi	-0.019123	0.005311	-11.500624	0.000095198757522	0.000345110152057	0.000002876216259
640	massimi	-0.018185	0.004364	-11.407452	0.000058455486062	0.000381786603188	0.000002895081987
640	minimi	-0.018185	0.004364	-11.407452	0.000058455486062	0.000381786603188	0.000002895081987
641	massimi	-0.017242	0.004356	-11.416769	0.000003810319587	0.000388221043609	0.000002939131146
641	minimi	-0.017242	0.004356	-11.416769	0.000003810319587	0.000388221043609	0.000002939131146
642	massimi	-0.016289	0.004345	-11.409926	-0.000050840983913	0.000381797884699	0.000002929695987
642	minimi	-0.016289	0.004345	-11.409926	-0.000050840983913	0.000381797884699	0.000002929695987
643	massimi	-0.031039	-0.001165	-11.526236	-0.000093085734576	0.000350888760189	0.00000502344023
643	minimi	-0.031039	-0.001165	-11.526236	-0.000093085734576	0.000350888760189	0.00000502344023
644	massimi	-0.031041	0.000464	-11.630445	-0.000100209058774	0.000295954011509	0.000005024497694
644	minimi	-0.031041	0.000464	-11.630445	-0.000100209058774	0.000295954011509	0.000005024497694

645	massimi	-0.031039	0.002093	-11.718406	-0.000093961988741	0.000240542589693	0.000005022508817
645	minimi	-0.031039	0.002093	-11.718406	-0.000093961988741	0.000240542589693	0.000005022508817
646	massimi	-0.03268	0.003719	-11.815139	-0.000057065155825	0.000203576383243	0.000004994589444
646	minimi	-0.03268	0.003719	-11.815139	-0.000057065155825	0.000203576383243	0.000004994589444
647	massimi	-0.034308	0.003699	-11.823771	-0.000001486437999	0.000196641134481	0.00000502677217
647	minimi	-0.034308	0.003699	-11.823771	-0.000001486437999	0.000196641134481	0.00000502677217
648	massimi	-0.035914	0.003682	-11.816104	0.000054094673932	0.000203571982229	0.000004925716574
648	minimi	-0.035914	0.003682	-11.816104	0.000054094673932	0.000203571982229	0.000004925716574
649	massimi	-0.037513	0.00207	-11.720338	0.000090992535035	0.000240538523488	0.000004898542269
649	minimi	-0.037513	0.00207	-11.720338	0.000090992535035	0.000240538523488	0.000004898542269
650	massimi	-0.037512	0.000464	-11.632377	0.000097242082306	0.000295954011509	0.000005028985948
650	minimi	-0.037512	0.000464	-11.632377	0.000097242082306	0.000295954011509	0.000005028985948
651	massimi	-0.037513	-0.001143	-11.528168	0.00009011628087	0.000350892826395	0.000004899473682
651	minimi	-0.037513	-0.001143	-11.528168	0.00009011628087	0.000350892826395	0.000004899473682
652	massimi	-0.035915	-0.002755	-11.431435	0.000053285080876	0.000387654652854	0.000004927393055
652	minimi	-0.035915	-0.002755	-11.431435	0.000053285080876	0.000387654652854	0.000004927393055
653	massimi	-0.034308	-0.002772	-11.439051	-0.000001486437999	0.00039409227556	0.000005026711472
653	minimi	-0.034308	-0.002772	-11.439051	-0.000001486437999	0.00039409227556	0.000005026711472
654	massimi	-0.032679	-0.002792	-11.43047	-0.000056255562769	0.000387650251841	0.000004996265925
654	minimi	-0.032679	-0.002792	-11.43047	-0.000056255562769	0.000387650251841	0.000004996265925
655	massimi	-0.056035	-0.010975	-11.482265	-0.000109025172575	0.000279581756063	0.000006777166883
655	minimi	-0.056035	-0.010975	-11.482265	-0.000109025172575	0.000279581756063	0.000006777166883
656	massimi	-0.056034	-0.008781	-11.563361	-0.000115995468266	0.000224894570902	0.000006761316581
656	minimi	-0.056034	-0.008781	-11.563361	-0.000115995468266	0.000224894570902	0.000006761316581
657	massimi	-0.056025	-0.006582	-11.628295	-0.000109691035502	0.000169845163247	0.000006794795228
657	minimi	-0.056025	-0.006582	-11.628295	-0.000109691035502	0.000169845163247	0.000006794795228
658	massimi	-0.058244	-0.004383	-11.707227	-0.000072996571213	0.000133094091597	0.000006753314197
658	minimi	-0.058244	-0.004383	-11.707227	-0.000072996571213	0.000133094091597	0.000006753314197
659	massimi	-0.060443	-0.004419	-11.721111	-0.000017810653491	0.000126228119294	0.000006764695869
659	minimi	-0.060443	-0.004419	-11.721111	-0.000017810653491	0.000126228119294	0.000006764695869
660	massimi	-0.062604	-0.00445	-11.718792	0.000037403950648	0.000133041358204	0.00000663197458
660	minimi	-0.062604	-0.00445	-11.718792	0.000037403950648	0.000133041358204	0.00000663197458
661	massimi	-0.064748	-0.006621	-11.651445	0.00007411073477	0.000169796441551	0.000006576392053
661	minimi	-0.064748	-0.006621	-11.651445	0.00007411073477	0.000169796441551	0.000006576392053
662	massimi	-0.064742	-0.008781	-11.586514	0.000080444850052	0.000224894570902	0.000006769223947
662	minimi	-0.064742	-0.008781	-11.586514	0.000080444850052	0.000224894570902	0.000006769223947
663	massimi	-0.064739	-0.010936	-11.505415	0.000073444871843	0.000279630477759	0.000006558763707
663	minimi	-0.064739	-0.010936	-11.505415	0.000073444871843	0.000279630477759	0.000006558763707
664	massimi	-0.062598	-0.013097	-11.426483	0.000036788743298	0.000316229998941	0.000006600244739
664	minimi	-0.062598	-0.013097	-11.426483	0.000036788743298	0.000316229998941	0.000006600244739
665	massimi	-0.060443	-0.013128	-11.428764	-0.000017810653491	0.000322668437612	0.000006765844659
665	minimi	-0.060443	-0.013128	-11.428764	-0.000017810653491	0.000322668437612	0.000006765844659
666	massimi	-0.05825	-0.013163	-11.414918	-0.000072381363864	0.000316177265548	0.000006721584356
666	minimi	-0.05825	-0.013163	-11.414918	-0.000072381363864	0.000316177265548	0.000006721584356
667	massimi	-0.020475	0.043012	-6.778236	0.000037366199704	0.000089602607596	-0.000001273187553
667	minimi	-0.020475	0.043012	-6.778236	0.000037366199704	0.000089602607596	-0.000001273187553
668	massimi	-0.019684	0.042001	-6.748764	0.000128192720634	-0.000028615766528	-0.000001625637009
668	minimi	-0.019684	0.042001	-6.748764	0.000128192720634	-0.000028615766528	-0.000001625637009
669	massimi	-0.019684	0.04384	-6.63556	0.000128192720634	0.00020665961211	-0.000001138067869
669	minimi	-0.019684	0.04384	-6.63556	0.000128192720634	0.00020665961211	-0.000001138067869
670	massimi	-0.020435	0.043839	-6.691671	0.000077345373092	0.000174246375186	-0.000001343084446
670	minimi	-0.020435	0.043839	-6.691671	0.000077345373092	0.000174246375186	-0.000001343084446
671	massimi	-0.018854	0.043012	-6.635664	0.000219045682603	0.000089602607596	-0.000001491512467
671	minimi	-0.018854	0.043012	-6.635664	0.000219045682603	0.000089602607596	-0.000001491512467
672	massimi	-0.018824	0.042009	-6.662508	0.000180900785199	0.000006413281569	-0.00000162913528
672	minimi	-0.018824	0.042009	-6.662508	0.000180900785199	0.000006413281569	-0.00000162913528
673	massimi	-0.0189	0.043867	-6.549899	0.000180249715161	0.000173393123552	-0.000001402653545
673	minimi	-0.0189	0.043867	-6.549899	0.000180249715161	0.000173393123552	-0.000001402653545
674	massimi	-0.02051	0.042037	-6.80428	0.000076694303055	0.000005560029935	-0.000001569566181
674	minimi	-0.02051	0.042037	-6.80428	0.000076694303055	0.000005560029935	-0.000001569566181
675	massimi	0.040058	0.086003	-7.153942	0.000037679914707	0.000042527257002	0.000004047414904
675	minimi	0.040058	0.086003	-7.153942	0.000037679914707	0.000042527257002	0.000004047414904
676	massimi	0.037598	0.088652	-7.090371	0.000134329723864	-0.000082928305282	0.000003766945395
676	minimi	0.037598	0.088652	-7.090371	0.000134329723864	-0.000082928305282	0.000003766945395
677	massimi	0.037598	0.082989	-7.036642	0.000134329723864	0.000167431593756	0.000004741849867
677	minimi	0.037598	0.082989	-7.036642	0.000134329723864	0.000167431593756	0.000004741849867
678	massimi	0.040122	0.083065	-7.095024	0.000080020897436	0.000132413686616	0.000004744917458
678	minimi	0.040122	0.083065	-7.095024	0.000080020897436	0.000132413686616	0.000004744917458
679	massimi	0.035067	0.086003	-7.004544	0.000231007262573	0.000042527257002	0.000004464445956

679	minimi	0.035067	0.086003	-7.004544	0.000231007262573	0.000042527257002	0.000004464445956
680	massimi	0.035165	0.0887	-6.999912	0.000190215136206	-0.000046179733963	0.000004405845824
680	minimi	0.035165	0.0887	-6.999912	0.000190215136206	-0.000046179733963	0.000004405845824
681	massimi	0.035013	0.083012	-6.946465	0.000189906124412	0.000131519583054	0.000004858702086
681	minimi	0.035013	0.083012	-6.946465	0.000189906124412	0.000131519583054	0.000004858702086
682	massimi	0.03997	0.088646	-7.148471	0.000079711885643	-0.000047073837524	0.000004292061197
682	minimi	0.03997	0.088646	-7.148471	0.000079711885643	-0.000047073837524	0.000004292061197
683	massimi	-0.046118	0.022934	-8.348309	-0.000054607135279	0.000148526942714	0.00000156214237
683	minimi	-0.046118	0.022934	-8.348309	-0.000054607135279	0.000148526942714	0.00000156214237
684	massimi	-0.046926	0.023751	-8.389126	0.000061368661185	-0.000002632749772	0.000001171440828
684	minimi	-0.046926	0.023751	-8.389126	0.000061368661185	-0.000002632749772	0.000001171440828
685	massimi	-0.046926	0.022019	-8.201477	0.000061368661185	0.000297761527413	0.00000143141393
685	minimi	-0.046926	0.022019	-8.201477	0.000061368661185	0.000297761527413	0.00000143141393
686	massimi	-0.046109	0.021999	-8.21666	-0.000003910786616	0.000256372196841	0.000001531004451
686	minimi	-0.046109	0.021999	-8.21666	-0.000003910786616	0.000256372196841	0.000001531004451
687	massimi	-0.047645	0.022934	-8.280056	0.000177357115552	0.000148526942714	0.000001041649613
687	minimi	-0.047645	0.022934	-8.280056	0.000177357115552	0.000148526942714	0.000001041649613
688	massimi	-0.047626	0.023723	-8.335454	0.000128306419232	0.000042086702386	0.000001268229404
688	minimi	-0.047626	0.023723	-8.335454	0.000128306419232	0.000042086702386	0.000001268229404
689	massimi	-0.047666	0.022066	-8.148791	0.000127227193473	0.000255963726608	0.000001388990039
689	minimi	-0.047666	0.022066	-8.148791	0.000127227193473	0.000255963726608	0.000001388990039
690	massimi	-0.04615	0.02379	-8.403323	-0.000004990012374	0.000041678232153	0.000001410243816
690	minimi	-0.04615	0.02379	-8.403323	-0.000004990012374	0.000041678232153	0.000001410243816
691	massimi	0.022235	0.070429	-10.361599	-0.000056274014872	0.000120849349151	0.000003960405628
691	minimi	0.022235	0.070429	-10.361599	-0.000056274014872	0.000120849349151	0.000003960405628
692	massimi	0.019867	0.072988	-10.363405	0.000090936060191	-0.000070583808281	0.000003669937007
692	minimi	0.019867	0.072988	-10.363405	0.000090936060191	-0.000070583808281	0.000003669937007
693	massimi	0.019867	0.067571	-10.210722	0.000090936060191	0.000310716093624	0.000004468299365
693	minimi	0.019867	0.067571	-10.210722	0.000090936060191	0.000310716093624	0.000004468299365
694	massimi	0.022283	0.067628	-10.236981	0.000007890864184	0.000257556926291	0.00000453148672
694	minimi	0.022283	0.067628	-10.236981	0.000007890864184	0.000257556926291	0.00000453148672
695	massimi	0.017461	0.070429	-10.260462	0.000238164907096	0.000120849349151	0.000004180762835
695	minimi	0.017461	0.070429	-10.260462	0.000238164907096	0.000120849349151	0.000004180762835
696	massimi	0.017542	0.073017	-10.288292	0.000175717471379	-0.000014442119918	0.000004220759901
696	minimi	0.017542	0.073017	-10.288292	0.000175717471379	-0.000014442119918	0.000004220759901
697	massimi	0.017418	0.0676	-10.136413	0.00017483935516	0.000256951652544	0.000004591609971
697	minimi	0.017418	0.0676	-10.136413	0.00017483935516	0.000256951652544	0.000004591609971
698	massimi	0.022159	0.072989	-10.388861	0.000007012747965	-0.000015047393665	0.00000416063665
698	minimi	0.022159	0.072989	-10.388861	0.000007012747965	-0.000015047393665	0.00000416063665
699	massimi	0.059203	0.123327	-10.543269	-0.000200741641925	0.000074227019785	0.000015677046613
699	minimi	0.059203	0.123327	-10.543269	-0.000200741641925	0.000074227019785	0.000015677046613
700	massimi	0.053914	0.117915	-10.550917	-0.000097672931123	0.000177295875307	0.000016496880369
700	minimi	0.053914	0.117915	-10.550917	-0.000097672931123	0.000177295875307	0.000016496880369
701	massimi	0.05924	0.117965	-10.507011	-0.000163215232331	0.000139713565755	0.000016574878419
701	minimi	0.05924	0.117965	-10.507011	-0.000163215232331	0.000139713565755	0.000016574878419
702	massimi	0.053914	0.128567	-10.599341	-0.000097672931123	-0.000028842752077	0.000015355976616
702	minimi	0.053914	0.128567	-10.599341	-0.000097672931123	-0.000028842752077	0.000015355976616
703	massimi	0.048551	0.123327	-10.606989	0.000005396985459	0.000074227019785	0.000016175810372
703	minimi	0.048551	0.123327	-10.606989	0.000005396985459	0.000074227019785	0.000016175810372
704	massimi	0.048617	0.128589	-10.618957	-0.000032331463101	0.000008829796526	0.000016340162355
704	minimi	0.048617	0.128589	-10.618957	-0.000032331463101	0.000008829796526	0.000016340162355
705	massimi	0.048528	0.117926	-10.570618	-0.000032445332494	0.0001398634028	0.000016757187367
705	minimi	0.048528	0.117926	-10.570618	-0.000032445332494	0.0001398634028	0.000016757187367
706	massimi	0.059151	0.12855	-10.55535	-0.000163329101723	0.000008979633571	0.000016157853407
706	minimi	0.059151	0.12855	-10.55535	-0.000163329101723	0.000008979633571	0.000016157853407
707	massimi	-0.051564	0.006028	-8.51662	-0.000106384081963	0.000220622517177	0.000001235155015
707	minimi	-0.051564	0.006028	-8.51662	-0.000106384081963	0.000220622517177	0.000001235155015
708	massimi	-0.052168	0.006644	-8.629572	0.000012653448254	0.000065037150494	0.000000911333398
708	minimi	-0.052168	0.006644	-8.629572	0.000012653448254	0.000065037150494	0.000000911333398
709	massimi	-0.052168	0.005386	-8.350837	0.000012653448254	0.000373348321022	0.000000979660153
709	minimi	-0.052168	0.005386	-8.350837	0.000012653448254	0.000373348321022	0.000000979660153
710	massimi	-0.051569	0.005354	-8.338815	-0.00005433620426	0.000331371257907	0.00000111640747
710	minimi	-0.051569	0.005354	-8.338815	-0.00005433620426	0.000331371257907	0.00000111640747
711	massimi	-0.052673	0.006028	-8.502547	0.000131693588372	0.000220622517177	0.000000656519436
711	minimi	-0.052673	0.006028	-8.502547	0.000131693588372	0.000220622517177	0.000000656519436
712	massimi	-0.052671	0.006606	-8.602091	0.000081365587002	0.000111438267699	0.000000922023693
712	minimi	-0.052671	0.006606	-8.602091	0.000081365587002	0.000111438267699	0.000000922023693
713	massimi	-0.052682	0.005428	-8.324821	0.000079762500727	0.000331287036468	0.000000953762293
713	minimi	-0.052682	0.005428	-8.324821	0.000079762500727	0.000331287036468	0.000000953762293

714	massimi	-0.05158	0.006681	-8.616085	-0.000055939290535	0.00011135404626	0.000001079902147
714	minimi	-0.05158	0.006681	-8.616085	-0.000055939290535	0.00011135404626	0.000001079902147
715	massimi	0.010287	0.039399	-11.440393	-0.000162183846185	0.000168655851455	0.000001836882809
715	minimi	0.010287	0.039399	-11.440393	-0.000162183846185	0.000168655851455	0.000001836882809
716	massimi	0.009189	0.040572	-11.518605	0.000002678977434	-0.000045935735191	0.000001663851542
716	minimi	0.009189	0.040572	-11.518605	0.000002678977434	-0.000045935735191	0.000001663851542
717	massimi	0.009189	0.03806	-11.305523	0.000002678977434	0.00038106137162	0.00000211047275
717	minimi	0.009189	0.03806	-11.305523	0.000002678977434	0.00038106137162	0.00000211047275
718	massimi	0.010315	0.038089	-11.280211	-0.000090665602201	0.00032152906173	0.000002119370797
718	minimi	0.010315	0.038089	-11.280211	-0.000090665602201	0.00032152906173	0.000002119370797
719	massimi	0.008073	0.039399	-11.437414	0.000167542354072	0.000168655851455	0.000001938801318
719	minimi	0.008073	0.039399	-11.437414	0.000167542354072	0.000168655851455	0.000001938801318
720	massimi	0.008116	0.040588	-11.489209	0.00009727432477	0.000016932062867	0.000001939717133
720	minimi	0.008116	0.040588	-11.489209	0.00009727432477	0.000016932062867	0.000001939717133
721	massimi	0.008047	0.038076	-11.277248	0.000096048836675	0.000321511230358	0.000002147178702
721	minimi	0.008047	0.038076	-11.277248	0.000096048836675	0.000321511230358	0.000002147178702
722	massimi	0.010246	0.040575	-11.492172	-0.000091891090296	0.000016914231495	0.000001911909229
722	minimi	0.010246	0.040575	-11.492172	-0.000091891090296	0.000016914231495	0.000001911909229
723	massimi	0.03746	0.112781	-12.98686	-0.000129342661281	0.000245106123666	0.000004111125895
723	minimi	0.03746	0.112781	-12.98686	-0.000129342661281	0.000245106123666	0.000004111125895
724	massimi	0.036054	0.111272	-12.907348	-0.000001349288723	0.000373097991625	0.000004799565571
724	minimi	0.036054	0.111272	-12.907348	-0.000001349288723	0.000373097991625	0.000004799565571
725	massimi	0.037501	0.111303	-12.891968	-0.000082430400759	0.000326766898393	0.000004550272566
725	minimi	0.037501	0.111303	-12.891968	-0.000082430400759	0.000326766898393	0.000004550272566
726	massimi	0.036054	0.114133	-13.067252	-0.000001349288723	0.000117111229851	0.000003756226011
726	minimi	0.036054	0.114133	-13.067252	-0.000001349288723	0.000117111229851	0.000003756226011
727	massimi	0.034599	0.112781	-12.98774	0.000126644100493	0.000245106123666	0.00000444665687
727	minimi	0.034599	0.112781	-12.98774	0.000126644100493	0.000245106123666	0.00000444665687
728	massimi	0.034648	0.114157	-13.052467	0.00008010348568	0.000164233011954	0.00000429082539
728	minimi	0.034648	0.114157	-13.052467	0.00008010348568	0.000164233011954	0.00000429082539
729	massimi	0.034567	0.111278	-12.892847	0.0000797274759	0.000326768968295	0.000004672188578
729	minimi	0.034567	0.111278	-12.892847	0.0000797274759	0.000326768968295	0.000004672188578
730	massimi	0.03742	0.114131	-13.051588	-0.000082806410539	0.000164235081856	0.000004168909378
730	minimi	0.03742	0.114131	-13.051588	-0.000082806410539	0.000164235081856	0.000004168909378
731	massimi	-0.066904	0.000032	-8.510917	-0.000113906709672	0.000213974947191	-0.000003325811849
731	minimi	-0.066904	0.000032	-8.510917	-0.000113906709672	0.000213974947191	-0.000003325811849
732	massimi	-0.064805	-0.00242	-8.62387	0.000005108026455	0.000058463187328	-0.000003684066466
732	minimi	-0.064805	-0.00242	-8.62387	0.000005108026455	0.000058463187328	-0.000003684066466
733	massimi	-0.064805	0.002483	-8.353533	0.000005108026455	0.000366713305612	-0.000003683708158
733	minimi	-0.064805	0.002483	-8.353533	0.000005108026455	0.000366713305612	-0.000003683708158
734	massimi	-0.066899	0.002425	-8.337321	-0.000061927941295	0.000324654500019	-0.000003863683067
734	minimi	-0.066899	0.002425	-8.337321	-0.000061927941295	0.000324654500019	-0.000003863683067
735	massimi	-0.062583	0.000032	-8.505236	0.000124123816164	0.000213974947191	-0.000004044615731
735	minimi	-0.062583	0.000032	-8.505236	0.000124123816164	0.000213974947191	-0.000004044615731
736	massimi	-0.062606	-0.002454	-8.600587	0.000073746978093	0.000104765061274	-0.000004059972332
736	minimi	-0.062606	-0.002454	-8.600587	0.000073746978093	0.000104765061274	-0.000004059972332
737	massimi	-0.062606	0.002517	-8.331671	0.000072192194359	0.000324620500959	-0.000004059805894
737	minimi	-0.062606	0.002517	-8.331671	0.000072192194359	0.000324620500959	-0.000004059805894
738	massimi	-0.066899	-0.002362	-8.606237	-0.00006348272503	0.000104731062214	-0.000003863849505
738	minimi	-0.066899	-0.002362	-8.606237	-0.00006348272503	0.000104731062214	-0.000003863849505
739	massimi	-0.009671	0.019035	-11.615167	-0.000207644639814	0.000166581640747	-0.000001282503405
739	minimi	-0.009671	0.019035	-11.615167	-0.000207644639814	0.000166581640747	-0.000001282503405
740	massimi	-0.008898	0.018108	-11.715116	-0.000039674964642	-0.00005201423065	-0.000001439258162
740	minimi	-0.008898	0.018108	-11.715116	-0.000039674964642	-0.00005201423065	-0.000001439258162
741	massimi	-0.008898	0.01988	-11.504655	-0.000039674964642	0.00038301833096	-0.000001223486736
741	minimi	-0.008898	0.01988	-11.504655	-0.000039674964642	0.00038301833096	-0.000001223486736
742	massimi	-0.00965	0.019877	-11.455401	-0.000134995288024	0.000322172970693	-0.000001368242386
742	minimi	-0.00965	0.019877	-11.455401	-0.000134995288024	0.000322172970693	-0.000001368242386
743	massimi	-0.008109	0.019035	-11.659293	0.000128286520465	0.000166581640747	-0.000001381200841
743	minimi	-0.008109	0.019035	-11.659293	0.000128286520465	0.000166581640747	-0.000001381200841
744	massimi	-0.008099	0.018114	-11.708633	0.000056481390752	0.000011843906257	-0.000001495400173
744	minimi	-0.008099	0.018114	-11.708633	0.000056481390752	0.000011843906257	-0.000001495400173
745	massimi	-0.008132	0.01989	-11.499278	0.000055270974299	0.000322437048711	-0.000001395171439
745	minimi	-0.008132	0.01989	-11.499278	0.000055270974299	0.000322437048711	-0.000001395171439
746	massimi	-0.009683	0.018127	-11.664755	-0.000136205704477	0.000012107984275	-0.000001468471121
746	minimi	-0.009683	0.018127	-11.664755	-0.000136205704477	0.000012107984275	-0.000001468471121
747	massimi	0.059839	0.01959	-14.067619	-0.000419304492629	-0.000005035797328	0.000002915166369
747	minimi	0.059839	0.01959	-14.067619	-0.000419304492629	-0.000005035797328	0.000002915166369
748	massimi	0.058814	0.018511	-14.160337	-0.00027920924628	0.000135061203535	0.000003277828176

748	minimi	0.058814	0.018511	-14.160337	-0.00027920924628	0.000135061203535	0.000003277828176
749	massimi	0.059851	0.018537	-14.052912	-0.000368614800497	0.000083693811754	0.000003227178574
749	minimi	0.059851	0.018537	-14.052912	-0.000368614800497	0.000083693811754	0.000003227178574
750	massimi	0.058814	0.020642	-14.157052	-0.00027920924628	-0.000145132736023	0.000003096598154
750	minimi	0.058814	0.020642	-14.157052	-0.00027920924628	-0.000145132736023	0.000003096598154
751	massimi	0.057708	0.01959	-14.249771	-0.00013911055307	-0.000005035797328	0.000003459259961
751	minimi	0.057708	0.01959	-14.249771	-0.00013911055307	-0.000005035797328	0.000003459259961
752	massimi	0.057725	0.020663	-14.231461	-0.000190711030641	-0.000094209958102	0.000003359813062
752	minimi	0.057725	0.020663	-14.231461	-0.000190711030641	-0.000094209958102	0.000003359813062
753	massimi	0.057711	0.018495	-14.234741	-0.000190703305379	0.000084122138087	0.000003426056557
753	minimi	0.057711	0.018495	-14.234741	-0.000190703305379	0.000084122138087	0.000003426056557
754	massimi	0.059837	0.020621	-14.049632	-0.000368607075235	-0.000093781631769	0.000003160935079
754	minimi	0.059837	0.020621	-14.049632	-0.000368607075235	-0.000093781631769	0.000003160935079
755	massimi	-0.091248	-0.008329	-8.407966	-0.000132953773273	0.00012477393268	-0.000010041592256
755	minimi	-0.091248	-0.008329	-8.407966	-0.000132953773273	0.00012477393268	-0.000010041592256
756	massimi	-0.085164	-0.015306	-8.47619	-0.000015369287834	-0.00002830483198	-0.000010462909869
756	minimi	-0.085164	-0.015306	-8.47619	-0.000015369287834	-0.00002830483198	-0.000010462909869
757	massimi	-0.085164	-0.001317	-8.318551	-0.000015369287834	0.000276235460325	-0.000010557329098
757	minimi	-0.085164	-0.001317	-8.318551	-0.000015369287834	0.000276235460325	-0.000010557329098
758	massimi	-0.091226	-0.001416	-8.290956	-0.000082009513473	0.00023376289175	-0.000011196143621
758	minimi	-0.091226	-0.001416	-8.290956	-0.000082009513473	0.00023376289175	-0.000011196143621
759	massimi	-0.078919	-0.008329	-8.425059	0.000102212027535	0.00012477393268	-0.000010986215586
759	minimi	-0.078919	-0.008329	-8.425059	0.000102212027535	0.00012477393268	-0.000010986215586
760	massimi	-0.078979	-0.015336	-8.464765	0.000052032542501	0.000016519847942	-0.000011410021533
760	minimi	-0.078979	-0.015336	-8.464765	0.000052032542501	0.000016519847942	-0.000011410021533
761	massimi	-0.078964	-0.001295	-8.307954	0.00005112591075	0.000233865189836	-0.000011453880401
761	minimi	-0.078964	-0.001295	-8.307954	0.00005112591075	0.000233865189836	-0.000011453880401
762	massimi	-0.091211	-0.015214	-8.447768	-0.000082916145224	0.000016622146028	-0.000011152284753
762	minimi	-0.091211	-0.015214	-8.447768	-0.000082916145224	0.000016622146028	-0.000011152284753
763	massimi	-0.021519	-0.002693	-11.340179	-0.000254652727207	0.000088409556505	-0.000001785604797
763	minimi	-0.021519	-0.002693	-11.340179	-0.000254652727207	0.000088409556505	-0.000001785604797
764	massimi	-0.020425	-0.003951	-11.419658	-0.000090537077516	-0.000124681912352	-0.000001882928992
764	minimi	-0.020425	-0.003951	-11.419658	-0.000090537077516	-0.000124681912352	-0.000001882928992
765	massimi	-0.020425	-0.001424	-11.30796	-0.000090537077516	0.00030035508725	-0.000001913459107
765	minimi	-0.020425	-0.001424	-11.30796	-0.000090537077516	0.00030035508725	-0.000001913459107
766	massimi	-0.021516	-0.001446	-11.230962	-0.000184181642963	0.000240004219185	-0.00000201759307
766	minimi	-0.021516	-0.001446	-11.230962	-0.000184181642963	0.000240004219185	-0.00000201759307
767	massimi	-0.019292	-0.002693	-11.440871	0.000073559882694	0.000088409556505	-0.000002012151086
767	minimi	-0.019292	-0.002693	-11.440871	0.000073559882694	0.000088409556505	-0.000002012151086
768	massimi	-0.019305	-0.00396	-11.442199	0.000002895555901	-0.000063194543567	-0.000002065223328
768	minimi	-0.019305	-0.00396	-11.442199	0.000002895555901	-0.000063194543567	-0.000002065223328
769	massimi	-0.0193	-0.001417	-11.331089	0.000002253153885	0.000240606837289	-0.000002079404978
769	minimi	-0.0193	-0.001417	-11.331089	0.000002253153885	0.000240606837289	-0.000002079404978
770	massimi	-0.021512	-0.003931	-11.342072	-0.000184824044979	-0.000062591925463	-0.00000200341142
770	minimi	-0.021512	-0.003931	-11.342072	-0.000184824044979	-0.000062591925463	-0.00000200341142
771	massimi	0.124247	-0.064646	-13.11489	-0.000537069202832	-0.000526139760244	0.000006325375222
771	minimi	0.124247	-0.064646	-13.11489	-0.000537069202832	-0.000526139760244	0.000006325375222
772	massimi	0.122028	-0.066905	-13.419074	-0.000406390282814	-0.000395455084146	0.000006590795672
772	minimi	0.122028	-0.066905	-13.419074	-0.000406390282814	-0.000395455084146	0.000006590795672
773	massimi	0.124234	-0.066864	-13.271045	-0.000490422213305	-0.000444325420385	0.000006803954446
773	minimi	0.124234	-0.066864	-13.271045	-0.000490422213305	-0.000444325420385	0.000006803954446
774	massimi	0.122028	-0.062297	-13.075829	-0.000406390282814	-0.000656817941103	0.00000718883883
774	minimi	0.122028	-0.062297	-13.075829	-0.000406390282814	-0.000656817941103	0.00000718883883
775	massimi	0.119639	-0.064646	-13.380012	-0.000275706345875	-0.000526139760243	0.00000745425928
775	minimi	0.119639	-0.064646	-13.380012	-0.000275706345875	-0.000526139760243	0.00000745425928
776	massimi	0.119638	-0.062268	-13.19306	-0.000324474878304	-0.000610272755385	0.000007435183716
776	minimi	0.119638	-0.062268	-13.19306	-0.000324474878304	-0.000610272755385	0.000007435183716
777	massimi	0.119684	-0.066951	-13.535697	-0.000323667743451	-0.000443701989528	0.000007216586
777	minimi	0.119684	-0.066951	-13.535697	-0.000323667743451	-0.000443701989528	0.000007216586
778	massimi	0.12428	-0.062356	-12.928408	-0.000489615078451	-0.000609649324529	0.000007022552163
778	minimi	0.12428	-0.062356	-12.928408	-0.000489615078451	-0.000609649324529	0.000007022552163
779	massimi	-0.149712	-0.028936	-7.578129	-0.000200035667099	0.000062548801717	0.00000403454657
779	minimi	-0.149712	-0.028936	-7.578129	-0.000200035667099	0.000062548801717	0.00000403454657
780	massimi	-0.151728	-0.02675	-7.653181	-0.000094733963149	-0.000074209870713	0.000003355935035
780	minimi	-0.151728	-0.02675	-7.653181	-0.000094733963149	-0.000074209870713	0.000003355935035
781	massimi	-0.151728	-0.030999	-7.574157	-0.000094733963148	0.000198496758037	0.000003027925066
781	minimi	-0.151728	-0.030999	-7.574157	-0.000094733963148	0.000198496758037	0.000003027925066
782	massimi	-0.149771	-0.031108	-7.504509	-0.000154968984881	0.000159710653177	0.000003586162192
782	minimi	-0.149771	-0.031108	-7.504509	-0.000154968984881	0.000159710653177	0.000003586162192

783	massimi	-0.153456	-0.028936	-7.68349	0.000010548200968	0.000062548801717	0.000002351612203
783	minimi	-0.153456	-0.028936	-7.68349	0.000010548200968	0.000062548801717	0.000002351612203
784	massimi	-0.15349	-0.026881	-7.687887	-0.00003493837442	-0.00003482392761	0.000003279344713
784	minimi	-0.15349	-0.026881	-7.687887	-0.00003493837442	-0.00003482392761	0.000003279344713
785	massimi	-0.153439	-0.030892	-7.609278	-0.000035392866223	0.000160341203091	0.000003126980134
785	minimi	-0.153439	-0.030892	-7.609278	-0.000035392866223	0.000160341203091	0.000003126980134
786	massimi	-0.14972	-0.026665	-7.583119	-0.000155423476684	-0.000034193377697	0.000003738526771
786	minimi	-0.14972	-0.026665	-7.583119	-0.000155423476684	-0.000034193377697	0.000003738526771
787	massimi	-0.009017	-0.027793	-9.706028	-0.000307581737924	-0.000007403843633	-0.000001475476415
787	minimi	-0.009017	-0.027793	-9.706028	-0.000307581737924	-0.000007403843633	-0.000001475476415
788	massimi	-0.008133	-0.028746	-9.7723	-0.000168344701389	-0.000187646029604	-0.000001362506733
788	minimi	-0.008133	-0.028746	-9.7723	-0.000168344701389	-0.000187646029604	-0.000001362506733
789	massimi	-0.008133	-0.026723	-9.781654	-0.000168344701389	0.000172934308734	-0.000001677564376
789	minimi	-0.008133	-0.026723	-9.781654	-0.000168344701389	0.000172934308734	-0.000001677564376
790	massimi	-0.009037	-0.026745	-9.665442	-0.000248519389739	0.000120620470635	-0.000001695585682
790	minimi	-0.009037	-0.026745	-9.665442	-0.000248519389739	0.000120620470635	-0.000001695585682
791	massimi	-0.007234	-0.027793	-9.893256	-0.000029142416086	-0.000007403843633	-0.000001565689988
791	minimi	-0.007234	-0.027793	-9.893256	-0.000029142416086	-0.000007403843633	-0.000001565689988
792	massimi	-0.007266	-0.028758	-9.842314	-0.000089812360175	-0.00013659834222	-0.000001573851439
792	minimi	-0.007266	-0.028758	-9.842314	-0.000089812360175	-0.00013659834222	-0.000001573851439
793	massimi	-0.007217	-0.026733	-9.851619	-0.000089758562325	0.000121740979133	-0.000001720199959
793	minimi	-0.007217	-0.026733	-9.851619	-0.000089758562325	0.000121740979133	-0.000001720199959
794	massimi	-0.008988	-0.028747	-9.656137	-0.000248465591889	-0.000135477833722	-0.000001549237162
794	minimi	-0.008988	-0.028747	-9.656137	-0.000248465591889	-0.000135477833722	-0.000001549237162
795	massimi	0.045339	-0.175871	-8.685105	-0.000794099350696	-0.000169156137494	-0.000015013325293
795	minimi	0.045339	-0.175871	-8.685105	-0.000794099350696	-0.000169156137494	-0.000015013325293
796	massimi	0.050317	-0.170806	-8.971284	-0.000708176475136	-0.000083227846562	-0.000015594079306
796	minimi	0.050317	-0.170806	-8.971284	-0.000708176475136	-0.000083227846562	-0.000015594079306
797	massimi	0.045296	-0.170824	-8.730469	-0.000764004955388	-0.00011541398636	-0.00001565588789
797	minimi	0.045296	-0.170824	-8.730469	-0.000764004955388	-0.00011541398636	-0.00001565588789
798	massimi	0.050317	-0.180691	-8.860929	-0.000708176475136	-0.000255082340179	-0.000013967087828
798	minimi	0.050317	-0.180691	-8.860929	-0.000708176475136	-0.000255082340179	-0.000013967087828
799	massimi	0.055224	-0.175871	-9.147108	-0.000622244857079	-0.000169156137494	-0.000014547841841
799	minimi	0.055224	-0.175871	-9.147108	-0.000622244857079	-0.000169156137494	-0.000014547841841
800	massimi	0.055155	-0.180684	-9.081494	-0.000654889239576	-0.000224529702173	-0.000014891043019
800	minimi	0.055155	-0.180684	-9.081494	-0.000654889239576	-0.000224529702173	-0.000014891043019
801	massimi	0.055281	-0.170861	-9.191653	-0.000654629742338	-0.000114327594571	-0.000015485743614
801	minimi	0.055281	-0.170861	-9.191653	-0.000654629742338	-0.000114327594571	-0.000015485743614
802	massimi	0.045422	-0.18072	-8.620309	-0.000763745458151	-0.000223443310384	-0.000015061187295
802	minimi	0.045422	-0.18072	-8.620309	-0.000763745458151	-0.000223443310384	-0.000015061187295
803	massimi	-0.205983	0.032916	-12.183408	-0.000166889374807	0.00065198901111	0.000010149908005
803	minimi	-0.205983	0.032916	-12.183408	-0.000166889374807	0.00065198901111	0.000010149908005
804	massimi	-0.209199	0.029823	-11.98608	-0.00004704403888	0.00077183061299	0.000009334508588
804	minimi	-0.209199	0.029823	-11.98608	-0.00004704403888	0.00077183061299	0.000009334508588
805	massimi	-0.206007	0.02976	-11.957017	-0.000122713411422	0.000729096964976	0.000009897801613
805	minimi	-0.206007	0.02976	-11.957017	-0.000122713411422	0.000729096964976	0.000009897801613
806	massimi	-0.209199	0.035964	-12.411427	-0.00004704403888	0.000532139360373	0.000009029999637
806	minimi	-0.209199	0.035964	-12.411427	-0.00004704403888	0.000532139360373	0.000009029999637
807	massimi	-0.212124	0.032916	-12.214099	0.00007280187781	0.00065198901111	0.000008214600221
807	minimi	-0.212124	0.032916	-12.214099	0.00007280187781	0.00065198901111	0.000008214600221
808	massimi	-0.212132	0.035885	-12.412247	0.000029473953906	0.000576909599648	0.000009079100124
808	minimi	-0.212132	0.035885	-12.412247	0.000029473953906	0.000576909599648	0.000009079100124
809	massimi	-0.212155	0.02991	-11.987653	0.00002847375758	0.000729169133792	0.000009190404736
809	minimi	-0.212155	0.02991	-11.987653	0.00002847375758	0.000729169133792	0.000009190404736
810	massimi	-0.206031	0.036035	-12.38161	-0.000123713607748	0.000576981768464	0.000009786497001
810	minimi	-0.206031	0.036035	-12.38161	-0.000123713607748	0.000576981768464	0.000009786497001
811	massimi	0.041731	-0.012298	-11.336185	-0.00026844430892	-0.000456250198108	-0.000002539418062
811	minimi	0.041731	-0.012298	-11.336185	-0.00026844430892	-0.000456250198108	-0.000002539418062
812	massimi	0.042544	-0.011506	-11.536217	-0.00015698328021	-0.000344785262218	-0.000002399517811
812	minimi	0.042544	-0.011506	-11.536217	-0.00015698328021	-0.000344785262218	-0.000002399517811
813	massimi	0.041734	-0.011495	-11.471703	-0.000228356876158	-0.000386334893855	-0.000002513473279
813	minimi	0.041734	-0.011495	-11.471703	-0.000228356876158	-0.000386334893855	-0.000002513473279
814	massimi	0.042544	-0.013073	-11.238566	-0.00015698328021	-0.000567709501553	-0.000002285745911
814	minimi	0.042544	-0.013073	-11.238566	-0.00015698328021	-0.000567709501553	-0.000002285745911
815	massimi	0.043297	-0.012298	-11.438598	-0.000045520191557	-0.000456250198108	-0.000002145845659
815	minimi	0.043297	-0.012298	-11.438598	-0.000045520191557	-0.000456250198108	-0.000002145845659
816	massimi	0.043297	-0.013057	-11.276812	-0.000086815404445	-0.000527876365568	-0.000002328027956
816	minimi	0.043297	-0.013057	-11.276812	-0.000086815404445	-0.000527876365568	-0.000002328027956
817	massimi	0.043305	-0.011525	-11.573935	-0.000086115485023	-0.000386094070625	-0.000002369614048

817	minimi	0.043305	-0.011525	-11.573935	-0.000086115485023	-0.000386094070625	-0.000002369614048
818	massimi	0.041743	-0.013088	-11.17458	-0.000227656956736	-0.000527635542337	-0.000002471887187
818	minimi	0.041743	-0.013088	-11.17458	-0.000227656956736	-0.000527635542337	-0.000002471887187
819	massimi	-0.013395	-0.00661	-11.982947	-0.000274003208439	-0.000327937248707	-0.00001770140365
819	minimi	-0.013395	-0.00661	-11.982947	-0.000274003208439	-0.000327937248707	-0.00001770140365
820	massimi	-0.007469	-0.000675	-12.140758	-0.000155863076168	-0.000209794130158	-0.000017766528461
820	minimi	-0.007469	-0.000675	-12.140758	-0.000155863076168	-0.000209794130158	-0.000017766528461
821	massimi	-0.013382	-0.000694	-12.075896	-0.000231377133903	-0.000253573685882	-0.000018325933457
821	minimi	-0.013382	-0.000694	-12.075896	-0.000231377133903	-0.000253573685882	-0.000018325933457
822	massimi	-0.007469	-0.012537	-11.926817	-0.000155863076168	-0.000446076318843	-0.000017705375249
822	minimi	-0.007469	-0.012537	-11.926817	-0.000155863076168	-0.000446076318843	-0.000017705375249
823	massimi	-0.001533	-0.00661	-12.084629	-0.000037721019754	-0.000327937248707	-0.00001777050006
823	minimi	-0.001533	-0.00661	-12.084629	-0.000037721019754	-0.000327937248707	-0.00001777050006
824	massimi	-0.001552	-0.012525	-11.963837	-0.000081354288358	-0.000403596531427	-0.000018328836868
824	minimi	-0.001552	-0.012525	-11.963837	-0.000081354288358	-0.000403596531427	-0.000018328836868
825	massimi	-0.001547	-0.000689	-12.177399	-0.000080851209892	-0.000253334581122	-0.00001835118969
825	minimi	-0.001547	-0.000689	-12.177399	-0.000080851209892	-0.000253334581122	-0.00001835118969
826	massimi	-0.013378	-0.012519	-11.862335	-0.000230874055437	-0.000403357426667	-0.000018303580635
826	minimi	-0.013378	-0.012519	-11.862335	-0.000230874055437	-0.000403357426667	-0.000018303580635
827	massimi	0.059887	-0.06039	-9.028764	-0.000436898867816	-0.00060232240164	-0.000010106266816
827	minimi	0.059887	-0.06039	-9.028764	-0.000436898867816	-0.00060232240164	-0.000010106266816
828	massimi	0.063213	-0.057067	-9.338958	-0.000348634683832	-0.000514052347834	-0.000010093213224
828	minimi	0.063213	-0.057067	-9.338958	-0.000348634683832	-0.000514052347834	-0.000010093213224
829	massimi	0.059882	-0.057061	-9.214689	-0.00040570135487	-0.000547517141417	-0.000010350114168
829	minimi	0.059882	-0.057061	-9.214689	-0.00040570135487	-0.000547517141417	-0.000010350114168
830	massimi	0.063213	-0.06363	-8.946013	-0.000348634683832	-0.000690585019727	-0.000009534538857
830	minimi	0.063213	-0.06363	-8.946013	-0.000348634683832	-0.000690585019727	-0.000009534538857
831	massimi	0.06645	-0.06039	-9.256207	-0.000260366195923	-0.00060232240164	-0.000009521485266
831	minimi	0.06645	-0.06039	-9.256207	-0.000260366195923	-0.00060232240164	-0.000009521485266
832	massimi	0.066428	-0.063607	-9.04948	-0.000293615319454	-0.000659603176833	-0.000009932156285
832	minimi	0.066428	-0.063607	-9.04948	-0.000293615319454	-0.000659603176833	-0.000009932156285
833	massimi	0.066472	-0.057106	-9.441729	-0.000292691315149	-0.000546982311652	-0.000010136363856
833	minimi	0.066472	-0.057106	-9.441729	-0.000292691315149	-0.000546982311652	-0.000010136363856
834	massimi	0.059926	-0.063652	-8.82244	-0.000404777350565	-0.000659068347067	-0.000010145906597
834	minimi	0.059926	-0.063652	-8.82244	-0.000404777350565	-0.000659068347067	-0.000010145906597
835	massimi	0.120567	-0.044629	-10.928366	-0.000412700718813	-0.000348701530277	-0.000013978081102
835	minimi	0.120567	-0.044629	-10.928366	-0.000412700718813	-0.000348701530277	-0.000013978081102
836	massimi	0.125135	-0.040117	-11.141583	-0.000304955595937	-0.000240952372676	-0.000013605699798
836	minimi	0.125135	-0.040117	-11.141583	-0.000304955595937	-0.000240952372676	-0.000013605699798
837	massimi	0.120579	-0.04009	-11.029388	-0.000374126241344	-0.000281085305483	-0.000014133111533
837	minimi	0.120579	-0.04009	-11.029388	-0.000374126241344	-0.000281085305483	-0.000014133111533
838	massimi	0.125135	-0.049079	-10.914096	-0.000304955595938	-0.00045644638313	-0.000013192834803
838	minimi	0.125135	-0.049079	-10.914096	-0.000304955595938	-0.00045644638313	-0.000013192834803
839	massimi	0.129528	-0.044629	-11.127314	-0.00019720670836	-0.000348701530277	-0.000012820453499
839	minimi	0.129528	-0.044629	-11.127314	-0.00019720670836	-0.000348701530277	-0.000012820453499
840	massimi	0.129517	-0.049028	-11.000899	-0.000237302451002	-0.000417909095825	-0.000013559062501
840	minimi	0.129517	-0.049028	-11.000899	-0.000237302451002	-0.000417909095825	-0.000013559062501
841	massimi	0.129549	-0.04018	-11.227983	-0.00023676751869	-0.000280617482465	-0.000013709973591
841	minimi	0.129549	-0.04018	-11.227983	-0.00023676751869	-0.000280617482465	-0.000013709973591
842	massimi	0.120612	-0.049118	-10.802304	-0.000373591309031	-0.000417441272807	-0.000013982200442
842	minimi	0.120612	-0.049118	-10.802304	-0.000373591309031	-0.000417441272807	-0.000013982200442
843	massimi	0.172238	-0.340145	-3.513832	-0.001634918286394	-0.0005007406579	0.000020182362988
843	minimi	0.172238	-0.340145	-3.513832	-0.001634918286394	-0.0005007406579	0.000020182362988
844	massimi	0.165348	-0.346913	-4.198891	-0.001599429861317	-0.000465239269435	0.000019373836471
844	minimi	0.165348	-0.346913	-4.198891	-0.001599429861317	-0.000465239269435	0.000019373836471
845	massimi	0.172119	-0.34688	-3.673622	-0.001624929594958	-0.000480235206753	0.000020791049928
845	minimi	0.172119	-0.34688	-3.673622	-0.001624929594958	-0.000480235206753	0.000020791049928
846	massimi	0.165348	-0.332903	-3.872216	-0.001599429861317	-0.000536235864681	0.000022520532974
846	minimi	0.165348	-0.332903	-3.872216	-0.001599429861317	-0.000536235864681	0.000022520532974
847	massimi	0.158228	-0.340145	-4.557274	-0.001563921691149	-0.0005007406579	0.000021712006457
847	minimi	0.158228	-0.340145	-4.557274	-0.001563921691149	-0.0005007406579	0.000021712006457
848	massimi	0.158147	-0.332908	-4.389119	-0.001579851668001	-0.00052531313371	0.000022500353388
848	minimi	0.158147	-0.332908	-4.389119	-0.001579851668001	-0.00052531313371	0.000022500353388
849	massimi	0.158391	-0.346999	-4.715215	-0.001579083497131	-0.000477781570506	0.000021350167719
849	minimi	0.158391	-0.346999	-4.715215	-0.001579083497131	-0.000477781570506	0.000021350167719
850	massimi	0.172364	-0.333027	-3.347525	-0.001624161424088	-0.000522859497463	0.000021941235597
850	minimi	0.172364	-0.333027	-3.347525	-0.001624161424088	-0.000522859497463	0.000021941235597
851	massimi	0.185283	-0.08642	-7.849646	-0.000512611914129	-0.000652742919573	-0.000000046121448
851	minimi	0.185283	-0.08642	-7.849646	-0.000512611914129	-0.000652742919573	-0.000000046121448

852	massimi	0.185141	-0.08663	-8.204862	-0.000436236398536	-0.000576360682211	0.000000410514401
852	minimi	0.185141	-0.08663	-8.204862	-0.000436236398536	-0.000576360682211	0.000000410514401
853	massimi	0.185276	-0.086575	-8.053441	-0.000485934731662	-0.000605634219191	0.000000378134833
853	minimi	0.185276	-0.086575	-8.053441	-0.000485934731662	-0.000605634219191	0.000000378134833
854	massimi	0.185141	-0.086088	-7.779024	-0.000436236398536	-0.00072911709877	0.000001209986111
854	minimi	0.185141	-0.086088	-7.779024	-0.000436236398536	-0.00072911709877	0.000001209986111
855	massimi	0.184741	-0.08642	-8.13424	-0.00035985549757	-0.000652742919573	0.00000166662196
855	minimi	0.184741	-0.08642	-8.13424	-0.00035985549757	-0.000652742919573	0.00000166662196
856	massimi	0.184735	-0.086034	-7.912445	-0.000388944973717	-0.000702623977136	0.000001296403826
856	minimi	0.184735	-0.086034	-7.912445	-0.000388944973717	-0.000702623977136	0.000001296403826
857	massimi	0.184797	-0.086708	-8.33753	-0.000387943620844	-0.000604965002325	0.000001004179614
857	minimi	0.184797	-0.086708	-8.33753	-0.000387943620844	-0.000604965002325	0.000001004179614
858	massimi	0.185338	-0.086167	-7.628356	-0.000484933378789	-0.00070195476027	0.000000670359045
858	minimi	0.185338	-0.086167	-7.628356	-0.000484933378789	-0.00070195476027	0.000000670359045
859	massimi	0.213829	-0.060595	-3.069047	-0.000498270572279	-0.001482072269597	0.000018184258256
859	minimi	0.213829	-0.060595	-3.069047	-0.000498270572279	-0.001482072269597	0.000018184258256
860	massimi	0.207572	-0.066955	-3.70618	-0.000471173677682	-0.00145496331851	0.000018864102906
860	minimi	0.207572	-0.066955	-3.70618	-0.000471173677682	-0.00145496331851	0.000018864102906
861	massimi	0.213818	-0.066871	-3.54871	-0.000490276040508	-0.001467614797246	0.000019329388723
861	minimi	0.213818	-0.066871	-3.54871	-0.000490276040508	-0.001467614797246	0.000019329388723
862	massimi	0.207572	-0.054151	-2.7393	-0.000471173677682	-0.001509162924381	0.00001942466884
862	minimi	0.207572	-0.054151	-2.7393	-0.000471173677682	-0.001509162924381	0.00001942466884
863	massimi	0.201025	-0.060595	-3.376433	-0.000444070966408	-0.001482072269597	0.00002010451349
863	minimi	0.201025	-0.060595	-3.376433	-0.000444070966408	-0.001482072269597	0.00002010451349
864	massimi	0.201048	-0.054101	-2.890384	-0.000455863039911	-0.001502027797843	0.000020236182548
864	minimi	0.201048	-0.054101	-2.890384	-0.000455863039911	-0.001502027797843	0.000020236182548
865	massimi	0.201092	-0.06702	-3.855551	-0.000453589438343	-0.001466891984172	0.000020031283568
865	minimi	0.201092	-0.06702	-3.855551	-0.000453589438343	-0.001466891984172	0.000020031283568
866	massimi	0.213862	-0.05425	-2.583543	-0.000488002438939	-0.001501304984769	0.000019534287704
866	minimi	0.213862	-0.05425	-2.583543	-0.000488002438939	-0.001501304984769	0.000019534287704
867	massimi	0.016849	0.020384	-7.966261	-0.000009364216675	0.000062877806476	0.000003379821646
867	minimi	0.016849	0.020384	-7.966261	-0.000009364216675	0.000062877806476	0.000003379821646
868	massimi	0.015705	0.019215	-7.924051	0.000066524821532	0.00013876604594	0.000003546752013
868	minimi	0.015705	0.019215	-7.924051	0.000066524821532	0.00013876604594	0.000003546752013
869	massimi	0.016855	0.019227	-7.936806	0.000018496193516	0.000111214158686	0.000003575504295
869	minimi	0.016855	0.019227	-7.936806	0.000018496193516	0.000111214158686	0.000003575504295
870	massimi	0.015705	0.021524	-7.965071	0.000066524821532	-0.00001301120922	0.000003358179145
870	minimi	0.015705	0.021524	-7.965071	0.000066524821532	-0.00001301120922	0.000003358179145
871	massimi	0.01454	0.020384	-7.922861	0.000142413038486	0.000062877806476	0.000003525109512
871	minimi	0.01454	0.020384	-7.922861	0.000142413038486	0.000062877806476	0.000003525109512
872	massimi	0.014552	0.02153	-7.934431	0.000114864251705	0.000014846100497	0.000003559682691
872	minimi	0.014552	0.02153	-7.934431	0.000114864251705	0.000014846100497	0.000003559682691
873	massimi	0.014537	0.019215	-7.893483	0.000114767792792	0.000111112105	0.000003628610155
873	minimi	0.014537	0.019215	-7.893483	0.000114767792792	0.000111112105	0.000003628610155
874	massimi	0.01684	0.021518	-7.977754	0.000018399734603	0.000014744046811	0.000003506576831
874	minimi	0.01684	0.021518	-7.977754	0.000018399734603	0.000014744046811	0.000003506576831
875	massimi	-0.009006	0.015217	-11.413656	-0.000070177297825	0.000194216979718	0.000002348446222
875	minimi	-0.009006	0.015217	-11.413656	-0.000070177297825	0.000194216979718	0.000002348446222
876	massimi	-0.009783	0.014437	-11.336794	0.000041416865483	0.000305809688566	0.000002373581559
876	minimi	-0.009783	0.014437	-11.336794	0.000041416865483	0.000305809688566	0.000002373581559
877	massimi	-0.009004	0.014437	-11.337243	-0.000029221852826	0.00026541604395	0.000002422266363
877	minimi	-0.009004	0.014437	-11.337243	-0.000029221852826	0.00026541604395	0.000002422266363
878	massimi	-0.009783	0.015977	-11.463498	0.000041416865483	0.000082621873245	0.000002232805656
878	minimi	-0.009783	0.015977	-11.463498	0.000041416865483	0.000082621873245	0.000002232805656
879	massimi	-0.010547	0.015217	-11.386636	0.000153010517496	0.000194216979718	0.000002257940993
879	minimi	-0.010547	0.015217	-11.386636	0.000153010517496	0.000194216979718	0.000002257940993
880	massimi	-0.01054	0.015973	-11.43675	0.000112486971406	0.000123707219718	0.000002337728104
880	minimi	-0.01054	0.015973	-11.43675	0.000112486971406	0.000123707219718	0.000002337728104
881	massimi	-0.010551	0.014444	-11.310271	0.0001121890291	0.000265352507608	0.000002389184743
881	minimi	-0.010551	0.014444	-11.310271	0.0001121890291	0.000265352507608	0.000002389184743
882	massimi	-0.009015	0.01598	-11.463722	-0.000029519795132	0.000123643683376	0.000002370809724
882	minimi	-0.009015	0.01598	-11.463722	-0.000029519795132	0.000123643683376	0.000002370809724
883	massimi	-0.016289	0.006256	-11.642634	-0.000110281812064	0.000289886098147	0.000002918366619
883	minimi	-0.016289	0.006256	-11.642634	-0.000110281812064	0.000289886098147	0.000002918366619
884	massimi	-0.01725	0.005303	-11.546835	0.00000380483652	0.000403970933912	0.000002867516503
884	minimi	-0.01725	0.005303	-11.546835	0.00000380483652	0.000403970933912	0.000002867516503
885	massimi	-0.016291	0.0053	-11.534798	-0.00006840379646	0.000362793138937	0.000002972976833
885	minimi	-0.016291	0.0053	-11.534798	-0.00006840379646	0.000362793138937	0.000002972976833
886	massimi	-0.01725	0.007201	-11.735952	0.00000380483652	0.000175797683715	0.000002809638524

886	minimi	-0.01725	0.007201	-11.735952	0.00000380483652	0.000175797683715	0.000002809638524
887	massimi	-0.018187	0.006256	-11.640152	0.000117891438132	0.000289886098147	0.000002758788408
887	minimi	-0.018187	0.006256	-11.640152	0.000117891438132	0.000289886098147	0.000002758788408
888	massimi	-0.018185	0.007193	-11.721102	0.000076470434061	0.000217918908416	0.000002893491889
888	minimi	-0.018185	0.007193	-11.721102	0.000076470434061	0.000217918908416	0.000002893491889
889	massimi	-0.018189	0.005312	-11.53232	0.000076025728698	0.000362787302054	0.000002914647543
889	minimi	-0.018189	0.005312	-11.53232	0.000076025728698	0.000362787302054	0.000002914647543
890	massimi	-0.016296	0.007206	-11.72358	-0.000068848501824	0.000217913071533	0.000002951821179
890	minimi	-0.016296	0.007206	-11.72358	-0.000068848501824	0.000217913071533	0.000002951821179
891	massimi	-0.032675	0.000464	-11.666948	-0.000115839968775	0.000295528132352	0.000005012850808
891	minimi	-0.032675	0.000464	-11.666948	-0.000115839968775	0.000295528132352	0.000005012850808
892	massimi	-0.034323	-0.001159	-11.571034	-0.000001484299008	0.000409881987122	0.000004856238221
892	minimi	-0.034323	-0.001159	-11.571034	-0.000001484299008	0.000409881987122	0.000004856238221
893	massimi	-0.032684	-0.001167	-11.557246	0.000073867955731	0.000368611036092	0.000005074773391
893	minimi	-0.032684	-0.001167	-11.557246	0.000073867955731	0.000368611036092	0.000005074773391
894	massimi	-0.034323	0.002087	-11.763831	-0.000001484299008	0.000181170629264	0.000004851944203
894	minimi	-0.034323	0.002087	-11.763831	-0.000001484299008	0.000181170629264	0.000004851944203
895	massimi	-0.035922	0.000464	-11.667917	0.000112871389083	0.000295528132352	0.000004695331616
895	minimi	-0.035922	0.000464	-11.667917	0.000112871389083	0.000295528132352	0.000004695331616
896	massimi	-0.035922	0.00207	-11.750669	0.000071347935933	0.000223395144428	0.000004957143698
896	minimi	-0.035922	0.00207	-11.750669	0.000071347935933	0.000223395144428	0.000004957143698
897	massimi	-0.035922	-0.001143	-11.558213	0.000070894575298	0.00036861331311	0.000004958713255
897	minimi	-0.035922	-0.001143	-11.558213	0.000070894575298	0.00036861331311	0.000004958713255
898	massimi	-0.032684	0.002095	-11.749702	-0.000074321316366	0.000223397421445	0.000005073203834
898	minimi	-0.032684	0.002095	-11.749702	-0.000074321316366	0.000223397421445	0.000005073203834
899	massimi	-0.058242	-0.008785	-11.604973	-0.000131555165555	0.000224570946601	0.00000681260868
899	minimi	-0.058242	-0.008785	-11.604973	-0.000131555165555	0.000224570946601	0.00000681260868
900	massimi	-0.060469	-0.010964	-11.537521	-0.000017785023881	0.000338339811881	0.000006492272129
900	minimi	-0.060469	-0.010964	-11.537521	-0.000017785023881	0.000338339811881	0.000006492272129
901	massimi	-0.058259	-0.010981	-11.518454	-0.000089877661773	0.000297155328999	0.000006838141314
901	minimi	-0.058259	-0.010981	-11.518454	-0.000089877661773	0.000297155328999	0.000006838141314
902	massimi	-0.060469	-0.006594	-11.684028	-0.000017785023881	0.000110799308975	0.000006573542709
902	minimi	-0.060469	-0.006594	-11.684028	-0.000017785023881	0.000110799308975	0.000006573542709
903	massimi	-0.062612	-0.008785	-11.616576	0.000095985337351	0.000224570946601	0.000006253206158
903	minimi	-0.062612	-0.008785	-11.616576	0.000095985337351	0.000224570946601	0.000006253206158
904	massimi	-0.062617	-0.006623	-11.676283	0.000054594817988	0.000152682849238	0.000006663373742
904	minimi	-0.062617	-0.006623	-11.676283	0.000054594817988	0.000152682849238	0.000006663373742
905	massimi	-0.062611	-0.010937	-11.530036	0.000054250310593	0.000297182612458	0.000006633667586
905	minimi	-0.062611	-0.010937	-11.530036	0.000054250310593	0.000297182612458	0.000006633667586
906	massimi	-0.058253	-0.006579	-11.664701	-0.000090222169168	0.000152710132697	0.00000686784747
906	minimi	-0.058253	-0.006579	-11.664701	-0.000090222169168	0.000152710132697	0.00000686784747
907	massimi	0.00	0.00	0.00	0.00	0.00	0.00
907	minimi	0.00	0.00	0.00	0.00	0.00	0.00
908	massimi	0.00	0.00	0.00	0.00	0.00	0.00
908	minimi	0.00	0.00	0.00	0.00	0.00	0.00
909	massimi	0.00	0.00	0.00	0.00	0.00	0.00
909	minimi	0.00	0.00	0.00	0.00	0.00	0.00
910	massimi	0.00	0.00	0.00	0.00	0.00	0.00
910	minimi	0.00	0.00	0.00	0.00	0.00	0.00

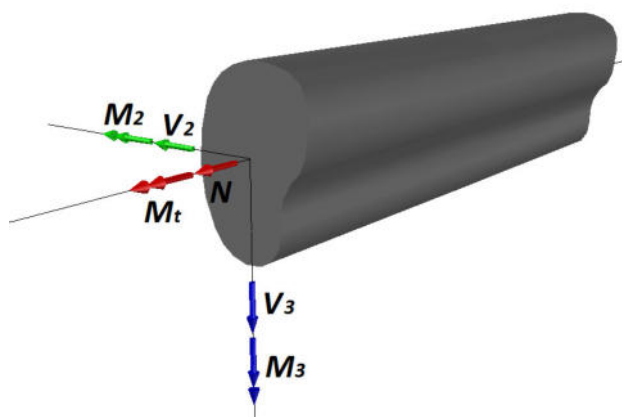
1.4.7.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.**: Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.**: Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x**: ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N**: sforzo normale;
- **V₂**: sforzo di taglio in direzione 2;
- **V₃**: sforzo di taglio in direzione 3;
- **M_t**: momento torcente;

- M_2 : momento flettente nel piano 1-2;
- M_3 : momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 1 (11-1)	31	massimi	0.00	4.26886	0.20	10.25331	-0.39372	-2.94949	0.571
Asta 1 (11-1)	31	massimi	237.00	4.26886	0.20	-3.04239	-0.39372	5.59546	0.097
Asta 1 (11-1)	31	massimi	474.00	4.26886	0.20	-16.33808	-0.39372	-17.3704	-0.377
Asta 1 (11-1)	31	minimi	0.00	4.26886	0.20	10.25331	-0.39372	-2.94949	0.571
Asta 1 (11-1)	31	minimi	237.00	4.26886	0.20	-3.04239	-0.39372	5.59546	0.097
Asta 1 (11-1)	31	minimi	474.00	4.26886	0.20	-16.33808	-0.39372	-17.3704	-0.377
Asta 2 (1-221)	32	massimi	0.00	17.02557	0.06158	18.47654	-0.31451	-20.97778	0.073
Asta 2 (1-221)	32	massimi	315.00	17.02557	0.06158	0.80504	-0.31451	9.3907	-0.121
Asta 2 (1-221)	32	massimi	630.00	17.02557	0.06158	-16.86646	-0.31451	-15.90603	-0.314
Asta 2 (1-221)	32	minimi	0.00	17.02557	0.06158	18.47654	-0.31451	-20.97778	0.073
Asta 2 (1-221)	32	minimi	315.00	17.02557	0.06158	0.80504	-0.31451	9.3907	-0.121
Asta 2 (1-221)	32	minimi	630.00	17.02557	0.06158	-16.86646	-0.31451	-15.90603	-0.314
Asta 3 (6-16)	33	massimi	0.00	5.18647	0.37049	20.42813	-0.52334	-27.1843	0.885
Asta 3 (6-16)	33	massimi	237.00	5.18647	0.37049	7.13243	-0.52334	5.47496	0.007
Asta 3 (6-16)	33	massimi	474.00	5.18647	0.37049	-6.16327	-0.52334	6.62342	-0.871
Asta 3 (6-16)	33	minimi	0.00	5.18647	0.37049	20.42813	-0.52334	-27.1843	0.885
Asta 3 (6-16)	33	minimi	237.00	5.18647	0.37049	7.13243	-0.52334	5.47496	0.007
Asta 3 (6-16)	33	minimi	474.00	5.18647	0.37049	-6.16327	-0.52334	6.62342	-0.871
Asta 4 (221-6)	34	massimi	0.00	16.07087	-0.09919	16.34367	0.34501	-14.30137	-0.346
Asta 4 (221-6)	34	massimi	315.00	16.07087	-0.09919	-1.32783	0.34501	9.34858	-0.033
Asta 4 (221-6)	34	massimi	630.00	16.07087	-0.09919	-18.99933	0.34501	-22.6667	0.279
Asta 4 (221-6)	34	minimi	0.00	16.07087	-0.09919	16.34367	0.34501	-14.30137	-0.346
Asta 4 (221-6)	34	minimi	315.00	16.07087	-0.09919	-1.32783	0.34501	9.34858	-0.033
Asta 4 (221-6)	34	minimi	630.00	16.07087	-0.09919	-18.99933	0.34501	-22.6667	0.279

Asta 5 (26-11)	35	massimi	0.00	5.27274	-0.07646	13.25766	-0.48173	-10.16292	-0.194
Asta 5 (26-11)	35	massimi	237.00	5.27274	-0.07646	-0.03804	-0.48173	5.50233	-0.013
Asta 5 (26-11)	35	massimi	474.00	5.27274	-0.07646	-13.33374	-0.48173	-10.34323	0.168
Asta 5 (26-11)	35	minimi	0.00	5.27274	-0.07646	13.25766	-0.48173	-10.16292	-0.194
Asta 5 (26-11)	35	minimi	237.00	5.27274	-0.07646	-0.03804	-0.48173	5.50233	-0.013
Asta 5 (26-11)	35	minimi	474.00	5.27274	-0.07646	-13.33374	-0.48173	-10.34323	0.168
Asta 6 (11-226)	36	massimi	0.00	22.65446	0.08458	19.86019	-0.10413	-25.60169	0.247
Asta 6 (11-226)	36	massimi	315.00	22.65446	0.08458	2.18869	-0.10413	9.12529	-0.02
Asta 6 (11-226)	36	massimi	630.00	22.65446	0.08458	-15.48281	-0.10413	-11.81295	-0.286
Asta 6 (11-226)	36	minimi	0.00	22.65446	0.08458	19.86019	-0.10413	-25.60169	0.247
Asta 6 (11-226)	36	minimi	315.00	22.65446	0.08458	2.18869	-0.10413	9.12529	-0.02
Asta 6 (11-226)	36	minimi	630.00	22.65446	0.08458	-15.48281	-0.10413	-11.81295	-0.286
Asta 7 (16-21)	37	massimi	0.00	7.71272	-0.01995	9.33672	-0.49145	-8.48543	-0.105
Asta 7 (16-21)	37	massimi	307.50	7.71272	-0.01995	-0.44178	-0.49145	5.19054	-0.044
Asta 7 (16-21)	37	massimi	615.00	7.71272	-0.01995	-10.22028	-0.49145	-11.2024	0.018
Asta 7 (16-21)	37	minimi	0.00	7.71272	-0.01995	9.33672	-0.49145	-8.48543	-0.105
Asta 7 (16-21)	37	minimi	307.50	7.71272	-0.01995	-0.44178	-0.49145	5.19054	-0.044
Asta 7 (16-21)	37	minimi	615.00	7.71272	-0.01995	-10.22028	-0.49145	-11.2024	0.018
Asta 8 (16-31)	38	massimi	0.00	9.93362	0.2641	15.68723	-0.31944	-15.71766	0.705
Asta 8 (16-31)	38	massimi	237.00	9.93362	0.2641	2.39153	-0.31944	5.70568	0.079
Asta 8 (16-31)	38	massimi	474.00	9.93362	0.2641	-10.90417	-0.31944	-4.38179	-0.547
Asta 8 (16-31)	38	minimi	0.00	9.93362	0.2641	15.68723	-0.31944	-15.71766	0.705
Asta 8 (16-31)	38	minimi	237.00	9.93362	0.2641	2.39153	-0.31944	5.70568	0.079
Asta 8 (16-31)	38	minimi	474.00	9.93362	0.2641	-10.90417	-0.31944	-4.38179	-0.547
Asta 9 (226-16)	39	massimi	0.00	20.53753	-0.1036	15.3448	0.25111	-10.96543	-0.382
Asta 9 (226-16)	39	massimi	315.00	20.53753	-0.1036	-2.3267	0.25111	9.53808	-0.056
Asta 9 (226-16)	39	massimi	630.00	20.53753	-0.1036	-19.9982	0.25111	-25.62363	0.271
Asta 9 (226-16)	39	minimi	0.00	20.53753	-0.1036	15.3448	0.25111	-10.96543	-0.382
Asta 9 (226-16)	39	minimi	315.00	20.53753	-0.1036	-2.3267	0.25111	9.53808	-0.056
Asta 9 (226-16)	39	minimi	630.00	20.53753	-0.1036	-19.9982	0.25111	-25.62363	0.271
Asta 10 (21-36)	40	massimi	0.00	15.09197	0.10901	13.9048	-0.57092	-21.48537	0.317
Asta 10 (21-36)	40	massimi	237.00	15.09197	0.10901	6.3682	-0.57092	2.53814	0.059
Asta 10 (21-36)	40	massimi	474.00	15.09197	0.10901	-1.1684	-0.57092	8.6999	-0.20
Asta 10 (21-36)	40	minimi	0.00	15.09197	0.10901	13.9048	-0.57092	-21.48537	0.317
Asta 10 (21-36)	40	minimi	237.00	15.09197	0.10901	6.3682	-0.57092	2.53814	0.059

Asta 10 (21-36)	40	minimi	474.00	15.09197	0.10901	-1.1684	-0.57092	8.6999	-0.20
Asta 11 (41-26)	41	massimi	0.00	4.03204	0.0912	13.41533	0.04442	-10.74833	0.048
Asta 11 (41-26)	41	massimi	237.00	4.03204	0.0912	0.11963	0.04442	5.29061	-0.168
Asta 11 (41-26)	41	massimi	474.00	4.03204	0.0912	-13.17607	0.04442	-10.18127	-0.384
Asta 11 (41-26)	41	minimi	0.00	4.03204	0.0912	13.41533	0.04442	-10.74833	0.048
Asta 11 (41-26)	41	minimi	237.00	4.03204	0.0912	0.11963	0.04442	5.29061	-0.168
Asta 11 (41-26)	41	minimi	474.00	4.03204	0.0912	-13.17607	0.04442	-10.18127	-0.384
Asta 12 (26-231)	42	massimi	0.00	19.29196	0.07259	19.29807	-0.04444	-23.91019	0.186
Asta 12 (26-231)	42	massimi	315.00	19.29196	0.07259	1.62657	-0.04444	9.04612	-0.042
Asta 12 (26-231)	42	massimi	630.00	19.29196	0.07259	-16.04493	-0.04444	-13.66279	-0.271
Asta 12 (26-231)	42	minimi	0.00	19.29196	0.07259	19.29807	-0.04444	-23.91019	0.186
Asta 12 (26-231)	42	minimi	315.00	19.29196	0.07259	1.62657	-0.04444	9.04612	-0.042
Asta 12 (26-231)	42	minimi	630.00	19.29196	0.07259	-16.04493	-0.04444	-13.66279	-0.271
Asta 13 (31-36)	43	massimi	0.00	11.19269	-0.05715	9.98877	-0.01054	-10.91653	-0.184
Asta 13 (31-36)	43	massimi	307.50	11.19269	-0.05715	0.21026	-0.01054	4.76448	-0.008
Asta 13 (31-36)	43	massimi	615.00	11.19269	-0.05715	-9.56824	-0.01054	-9.6234	0.167
Asta 13 (31-36)	43	minimi	0.00	11.19269	-0.05715	9.98877	-0.01054	-10.91653	-0.184
Asta 13 (31-36)	43	minimi	307.50	11.19269	-0.05715	0.21026	-0.01054	4.76448	-0.008
Asta 13 (31-36)	43	minimi	615.00	11.19269	-0.05715	-9.56824	-0.01054	-9.6234	0.167
Asta 14 (31-46)	44	massimi	0.00	9.97852	0.30903	14.06422	0.01386	-12.10719	0.849
Asta 14 (31-46)	44	massimi	237.00	9.97852	0.30903	0.76852	0.01386	5.46961	0.117
Asta 14 (31-46)	44	massimi	474.00	9.97852	0.30903	-12.52718	0.01386	-8.46439	-0.616
Asta 14 (31-46)	44	minimi	0.00	9.97852	0.30903	14.06422	0.01386	-12.10719	0.849
Asta 14 (31-46)	44	minimi	237.00	9.97852	0.30903	0.76852	0.01386	5.46961	0.117
Asta 14 (31-46)	44	minimi	474.00	9.97852	0.30903	-12.52718	0.01386	-8.46439	-0.616
Asta 15 (231-31)	45	massimi	0.00	15.89815	-0.10123	15.82863	-0.00514	-12.31528	-0.302
Asta 15 (231-31)	45	massimi	315.00	15.89815	-0.10123	-1.84287	-0.00514	9.7123	0.017
Asta 15 (231-31)	45	massimi	630.00	15.89815	-0.10123	-19.51437	-0.00514	-23.92535	0.336
Asta 15 (231-31)	45	minimi	0.00	15.89815	-0.10123	15.82863	-0.00514	-12.31528	-0.302
Asta 15 (231-31)	45	minimi	315.00	15.89815	-0.10123	-1.84287	-0.00514	9.7123	0.017
Asta 15 (231-31)	45	minimi	630.00	15.89815	-0.10123	-19.51437	-0.00514	-23.92535	0.336
Asta 16 (36-51)	46	massimi	0.00	30.49036	0.08419	11.9697	0.83575	-15.19452	0.205
Asta 16 (36-51)	46	massimi	237.00	30.49036	0.08419	4.4331	0.83575	4.24279	0.005
Asta 16 (36-51)	46	massimi	474.00	30.49036	0.08419	-3.1035	0.83575	5.81836	-0.194
Asta 16 (36-51)	46	minimi	0.00	30.49036	0.08419	11.9697	0.83575	-15.19452	0.205

Asta 16 (36-51)	46	minimi	237.00	30.49036	0.08419	4.4331	0.83575	4.24279	0.005
Asta 16 (36-51)	46	minimi	474.00	30.49036	0.08419	-3.1035	0.83575	5.81836	-0.194
Asta 17 (71-41)	47	massimi	0.00	3.41061	-0.01922	13.47253	0.59603	-10.81738	-0.293
Asta 17 (71-41)	47	massimi	237.00	3.41061	-0.01922	0.17683	0.59603	5.35711	-0.247
Asta 17 (71-41)	47	massimi	474.00	3.41061	-0.01922	-13.11887	0.59603	-9.97921	-0.202
Asta 17 (71-41)	47	minimi	0.00	3.41061	-0.01922	13.47253	0.59603	-10.81738	-0.293
Asta 17 (71-41)	47	minimi	237.00	3.41061	-0.01922	0.17683	0.59603	5.35711	-0.247
Asta 17 (71-41)	47	minimi	474.00	3.41061	-0.01922	-13.11887	0.59603	-9.97921	-0.202
Asta 18 (41-236)	48	massimi	0.00	17.88239	0.00327	19.33362	-0.03259	-24.0695	-0.207
Asta 18 (41-236)	48	massimi	315.00	17.88239	0.00327	1.66213	-0.03259	8.9988	-0.217
Asta 18 (41-236)	48	massimi	630.00	17.88239	0.00327	-16.00937	-0.03259	-13.59811	-0.227
Asta 18 (41-236)	48	minimi	0.00	17.88239	0.00327	19.33362	-0.03259	-24.0695	-0.207
Asta 18 (41-236)	48	minimi	315.00	17.88239	0.00327	1.66213	-0.03259	8.9988	-0.217
Asta 18 (41-236)	48	minimi	630.00	17.88239	0.00327	-16.00937	-0.03259	-13.59811	-0.227
Asta 19 (46-51)	49	massimi	0.00	12.72816	-0.03071	11.92262	-0.61431	-15.99239	-0.113
Asta 19 (46-51)	49	massimi	307.50	12.72816	-0.03071	2.14412	-0.61431	5.63523	-0.018
Asta 19 (46-51)	49	massimi	615.00	12.72816	-0.03071	-7.63438	-0.61431	-2.80605	0.076
Asta 19 (46-51)	49	minimi	0.00	12.72816	-0.03071	11.92262	-0.61431	-15.99239	-0.113
Asta 19 (46-51)	49	minimi	307.50	12.72816	-0.03071	2.14412	-0.61431	5.63523	-0.018
Asta 19 (46-51)	49	minimi	615.00	12.72816	-0.03071	-7.63438	-0.61431	-2.80605	0.076
Asta 20 (46-76)	50	massimi	0.00	9.38603	0.3092	13.48693	0.52233	-10.69526	0.753
Asta 20 (46-76)	50	massimi	237.00	9.38603	0.3092	0.19124	0.52233	5.51337	0.021
Asta 20 (46-76)	50	massimi	474.00	9.38603	0.3092	-13.10446	0.52233	-9.78881	-0.712
Asta 20 (46-76)	50	minimi	0.00	9.38603	0.3092	13.48693	0.52233	-10.69526	0.753
Asta 20 (46-76)	50	minimi	237.00	9.38603	0.3092	0.19124	0.52233	5.51337	0.021
Asta 20 (46-76)	50	minimi	474.00	9.38603	0.3092	-13.10446	0.52233	-9.78881	-0.712
Asta 21 (236-46)	51	massimi	0.00	14.17492	-0.10298	16.01145	-0.19003	-12.86174	-0.172
Asta 21 (236-46)	51	massimi	315.00	14.17492	-0.10298	-1.66005	-0.19003	9.74172	0.153
Asta 21 (236-46)	51	massimi	630.00	14.17492	-0.10298	-19.33155	-0.19003	-23.32005	0.477
Asta 21 (236-46)	51	minimi	0.00	14.17492	-0.10298	16.01145	-0.19003	-12.86174	-0.172
Asta 21 (236-46)	51	minimi	315.00	14.17492	-0.10298	-1.66005	-0.19003	9.74172	0.153
Asta 21 (236-46)	51	minimi	630.00	14.17492	-0.10298	-19.33155	-0.19003	-23.32005	0.477
Asta 22 (66-51)	52	massimi	0.00	38.8825	-0.35086	4.12387	15.82709	-3.31037	-0.514
Asta 22 (66-51)	52	massimi	116.50	38.8825	-0.35086	0.41917	15.82709	-0.66405	-0.105
Asta 22 (66-51)	52	massimi	233.00	38.8825	-0.35086	-3.28553	15.82709	-2.33371	0.303

Asta 22 (66-51)	52	minimi	0.00	38.8825	-0.35086	4.12387	15.82709	-3.31037	-0.514
Asta 22 (66-51)	52	minimi	116.50	38.8825	-0.35086	0.41917	15.82709	-0.66405	-0.105
Asta 22 (66-51)	52	minimi	233.00	38.8825	-0.35086	-3.28553	15.82709	-2.33371	0.303
Asta 23 (61-56)	53	massimi	0.00	1.44388	0.57842	-20.69989	5.89429	-5.50047	0.986
Asta 23 (61-56)	53	massimi	204.50	-1.45157	0.42578	-12.03653	5.89429	-35.47403	-0.069
Asta 23 (61-56)	53	massimi	409.00	-4.36393	0.13679	31.99976	5.89429	-32.37257	-0.678
Asta 23 (61-56)	53	minimi	0.00	1.44388	0.57842	-20.69989	5.89429	-5.50047	0.986
Asta 23 (61-56)	53	minimi	204.50	-1.45157	0.42578	-12.03653	5.89429	-35.47403	-0.069
Asta 23 (61-56)	53	minimi	409.00	-4.36393	0.13679	31.99976	5.89429	-32.37257	-0.678
Asta 24 (56-66)	54	massimi	0.00	0.86209	0.05031	25.53048	-1.18017	-50.36734	0.17
Asta 24 (56-66)	54	massimi	205.50	0.86209	0.05031	18.99557	-1.18017	-4.61683	0.067
Asta 24 (56-66)	54	massimi	411.00	0.86209	0.05031	12.46067	-1.18017	27.70447	-0.037
Asta 24 (56-66)	54	minimi	0.00	0.86209	0.05031	25.53048	-1.18017	-50.36734	0.17
Asta 24 (56-66)	54	minimi	205.50	0.86209	0.05031	18.99557	-1.18017	-4.61683	0.067
Asta 24 (56-66)	54	minimi	411.00	0.86209	0.05031	12.46067	-1.18017	27.70447	-0.037
Asta 25 (56-86)	55	massimi	0.00	0.25867	-2.3083	-64.98713	-0.78525	8.11974	-1.065
Asta 25 (56-86)	55	massimi	166.00	-0.08204	-0.08573	1.72596	-0.78524	-39.67715	0.88
Asta 25 (56-86)	55	massimi	332.00	-0.42337	1.96067	66.62063	-0.78523	12.94046	-0.681
Asta 25 (56-86)	55	minimi	0.00	0.25867	-2.3083	-64.98713	-0.78525	8.11974	-1.065
Asta 25 (56-86)	55	minimi	166.00	-0.08204	-0.08573	1.72596	-0.78524	-39.67715	0.88
Asta 25 (56-86)	55	minimi	332.00	-0.42337	1.96067	66.62063	-0.78523	12.94046	-0.681
Asta 26 (91-61)	56	massimi	0.00	-0.36433	1.90582	-12.12255	0.23156	-3.67583	0.567
Asta 26 (91-61)	56	massimi	166.00	-0.33265	-0.11756	-0.74546	0.23157	-12.9022	-0.919
Asta 26 (91-61)	56	massimi	332.00	-0.30353	-2.3112	11.38032	0.23157	-5.77836	1.054
Asta 26 (91-61)	56	minimi	0.00	-0.36433	1.90582	-12.12255	0.23156	-3.67583	0.567
Asta 26 (91-61)	56	minimi	166.00	-0.33265	-0.11756	-0.74546	0.23157	-12.9022	-0.919
Asta 26 (91-61)	56	minimi	332.00	-0.30353	-2.3112	11.38032	0.23157	-5.77836	1.054
Asta 27 (81-66)	57	massimi	0.00	38.83219	0.51123	-0.673	-11.87738	6.36628	0.754
Asta 27 (81-66)	57	massimi	120.50	38.83219	0.51123	-4.5049	-11.87738	3.24659	0.138
Asta 27 (81-66)	57	massimi	241.00	38.83219	0.51123	-8.3368	-11.87738	-4.49054	-0.478
Asta 27 (81-66)	57	minimi	0.00	38.83219	0.51123	-0.673	-11.87738	6.36628	0.754
Asta 27 (81-66)	57	minimi	120.50	38.83219	0.51123	-4.5049	-11.87738	3.24659	0.138
Asta 27 (81-66)	57	minimi	241.00	38.83219	0.51123	-8.3368	-11.87738	-4.49054	-0.478
Asta 28 (101-71)	58	massimi	0.00	1.98625	0.9043	14.66948	0.41578	-13.35132	2.64
Asta 28 (101-71)	58	massimi	237.00	1.98625	0.9043	1.37378	0.41578	5.65995	0.497

Asta 28 (101-71)	58	massimi	474.00	1.98625	0.9043	-11.92192	0.41578	-6.83959	-1.647
Asta 28 (101-71)	58	minimi	0.00	1.98625	0.9043	14.66948	0.41578	-13.35132	2.64
Asta 28 (101-71)	58	minimi	237.00	1.98625	0.9043	1.37378	0.41578	5.65995	0.497
Asta 28 (101-71)	58	minimi	474.00	1.98625	0.9043	-11.92192	0.41578	-6.83959	-1.647
Asta 29 (71-241)	59	massimi	0.00	21.14512	-0.11501	19.96111	-0.00989	-26.12715	-0.806
Asta 29 (71-241)	59	massimi	315.00	21.14512	-0.11501	2.28961	-0.00989	8.91772	-0.443
Asta 29 (71-241)	59	massimi	630.00	21.14512	-0.11501	-15.38189	-0.00989	-11.70263	-0.081
Asta 29 (71-241)	59	minimi	0.00	21.14512	-0.11501	19.96111	-0.00989	-26.12715	-0.806
Asta 29 (71-241)	59	minimi	315.00	21.14512	-0.11501	2.28961	-0.00989	8.91772	-0.443
Asta 29 (71-241)	59	minimi	630.00	21.14512	-0.11501	-15.38189	-0.00989	-11.70263	-0.081
Asta 30 (76-81)	60	massimi	0.00	19.1769	0.04127	13.25528	-0.80761	-18.54503	0.092
Asta 30 (76-81)	60	massimi	307.50	19.1769	0.04127	3.47678	-0.80761	7.18051	-0.035
Asta 30 (76-81)	60	massimi	615.00	19.1769	0.04127	-6.30172	-0.80761	2.83716	-0.162
Asta 30 (76-81)	60	minimi	0.00	19.1769	0.04127	13.25528	-0.80761	-18.54503	0.092
Asta 30 (76-81)	60	minimi	307.50	19.1769	0.04127	3.47678	-0.80761	7.18051	-0.035
Asta 30 (76-81)	60	minimi	615.00	19.1769	0.04127	-6.30172	-0.80761	2.83716	-0.162
Asta 31 (76-106)	61	massimi	0.00	6.61014	0.00052	10.74807	0.64021	-4.06558	-0.012
Asta 31 (76-106)	61	massimi	237.00	6.61014	0.00052	-2.54763	0.64021	5.65194	-0.014
Asta 31 (76-106)	61	massimi	474.00	6.61014	0.00052	-15.84333	0.64021	-16.14134	-0.015
Asta 31 (76-106)	61	minimi	0.00	6.61014	0.00052	10.74807	0.64021	-4.06558	-0.012
Asta 31 (76-106)	61	minimi	237.00	6.61014	0.00052	-2.54763	0.64021	5.65194	-0.014
Asta 31 (76-106)	61	minimi	474.00	6.61014	0.00052	-15.84333	0.64021	-16.14134	-0.015
Asta 32 (241-76)	62	massimi	0.00	19.10696	-0.05917	16.34229	-0.36379	-13.86596	0.022
Asta 32 (241-76)	62	massimi	315.00	19.10696	-0.05917	-1.32921	-0.36379	9.77964	0.209
Asta 32 (241-76)	62	massimi	630.00	19.10696	-0.05917	-19.00071	-0.36379	-22.23997	0.395
Asta 32 (241-76)	62	minimi	0.00	19.10696	-0.05917	16.34229	-0.36379	-13.86596	0.022
Asta 32 (241-76)	62	minimi	315.00	19.10696	-0.05917	-1.32921	-0.36379	9.77964	0.209
Asta 32 (241-76)	62	minimi	630.00	19.10696	-0.05917	-19.00071	-0.36379	-22.23997	0.395
Asta 33 (96-81)	63	massimi	0.00	39.13714	-1.83665	11.76814	23.66625	1.72502	-0.63
Asta 33 (96-81)	63	massimi	45.50	39.13714	-1.83665	10.32124	23.66625	6.75036	0.206
Asta 33 (96-81)	63	massimi	91.00	39.13714	-1.83665	8.87434	23.66625	11.11735	1.042
Asta 33 (96-81)	63	minimi	0.00	39.13714	-1.83665	11.76814	23.66625	1.72502	-0.63
Asta 33 (96-81)	63	minimi	45.50	39.13714	-1.83665	10.32124	23.66625	6.75036	0.206
Asta 33 (96-81)	63	minimi	91.00	39.13714	-1.83665	8.87434	23.66625	11.11735	1.042
Asta 34 (86-91)	64	massimi	0.00	-3.13044	-0.654	-28.74843	-4.92554	-33.37235	-0.853

Asta 34 (86-91)	64	massimi	204.50	-0.63163	-0.32091	11.8933	-4.92553	-33.95421	0.104
Asta 34 (86-91)	64	massimi	409.00	1.85982	-0.22423	18.75547	-4.92553	-6.01139	0.633
Asta 34 (86-91)	64	minimi	0.00	-3.13044	-0.654	-28.74843	-4.92554	-33.37235	-0.853
Asta 34 (86-91)	64	minimi	204.50	-0.63163	-0.32091	11.8933	-4.92553	-33.95421	0.104
Asta 34 (86-91)	64	minimi	409.00	1.85982	-0.22423	18.75547	-4.92553	-6.01139	0.633
Asta 35 (86-96)	65	massimi	0.00	1.99028	0.03314	25.94325	4.05652	-49.00291	-0.016
Asta 35 (86-96)	65	massimi	205.50	1.99028	0.03314	19.40835	4.05652	-2.40414	-0.084
Asta 35 (86-96)	65	massimi	411.00	1.99028	0.03314	12.87345	4.05652	30.76541	-0.152
Asta 35 (86-96)	65	minimi	0.00	1.99028	0.03314	25.94325	4.05652	-49.00291	-0.016
Asta 35 (86-96)	65	minimi	205.50	1.99028	0.03314	19.40835	4.05652	-2.40414	-0.084
Asta 35 (86-96)	65	minimi	411.00	1.99028	0.03314	12.87345	4.05652	30.76541	-0.152
Asta 36 (111-96)	66	massimi	0.00	39.104	0.15363	11.07409	-7.09916	-13.30868	0.11
Asta 36 (111-96)	66	massimi	191.50	39.104	0.15363	4.98439	-7.09916	2.06732	-0.184
Asta 36 (111-96)	66	massimi	383.00	39.104	0.15363	-1.10531	-7.09916	5.78155	-0.478
Asta 36 (111-96)	66	minimi	0.00	39.104	0.15363	11.07409	-7.09916	-13.30868	0.11
Asta 36 (111-96)	66	minimi	191.50	39.104	0.15363	4.98439	-7.09916	2.06732	-0.184
Asta 36 (111-96)	66	minimi	383.00	39.104	0.15363	-1.10531	-7.09916	5.78155	-0.478
Asta 37 (116-101)	67	massimi	0.00	35.57891	-0.86578	-12.62936	0.4419	29.00485	-1.255
Asta 37 (116-101)	67	massimi	173.00	35.57891	-0.86578	-22.33466	0.4419	-1.23903	0.243
Asta 37 (116-101)	67	massimi	346.00	35.57891	-0.86578	-32.03996	0.4419	-48.27309	1.741
Asta 37 (116-101)	67	minimi	0.00	35.57891	-0.86578	-12.62936	0.4419	29.00485	-1.255
Asta 37 (116-101)	67	minimi	173.00	35.57891	-0.86578	-22.33466	0.4419	-1.23903	0.243
Asta 37 (116-101)	67	minimi	346.00	35.57891	-0.86578	-32.03996	0.4419	-48.27309	1.741
Asta 38 (106-111)	68	massimi	0.00	15.91704	0.02508	9.36565	-1.37945	-8.18645	0.128
Asta 38 (106-111)	68	massimi	307.50	15.91704	0.02508	-0.41285	-1.37945	5.57848	0.051
Asta 38 (106-111)	68	massimi	615.00	15.91704	0.02508	-10.19135	-1.37945	-10.72548	-0.027
Asta 38 (106-111)	68	minimi	0.00	15.91704	0.02508	9.36565	-1.37945	-8.18645	0.128
Asta 38 (106-111)	68	minimi	307.50	15.91704	0.02508	-0.41285	-1.37945	5.57848	0.051
Asta 38 (106-111)	68	minimi	615.00	15.91704	0.02508	-10.19135	-1.37945	-10.72548	-0.027
Asta 39	69	massimi	0.00	30.08369	-0.56511	-9.20641	-0.18659	13.5228	-0.754

(121-106)									
Asta 39 (121-106)	69	massimi	127.00	30.08369	-0.56511	-16.33111	-0.18659	-2.69352	-0.037
Asta 39 (121-106)	69	massimi	254.00	30.08369	-0.56511	-23.45581	-0.18659	-27.95822	0.681
Asta 39 (121-106)	69	minimi	0.00	30.08369	-0.56511	-9.20641	-0.18659	13.5228	-0.754
Asta 39 (121-106)	69	minimi	127.00	30.08369	-0.56511	-16.33111	-0.18659	-2.69352	-0.037
Asta 39 (121-106)	69	minimi	254.00	30.08369	-0.56511	-23.45581	-0.18659	-27.95822	0.681
Asta 40 (111-141)	70	massimi	0.00	24.66296	-0.37816	-2.05773	1.59129	14.99894	-0.882
Asta 40 (111-141)	70	massimi	165.00	24.66296	-0.37816	-7.30473	1.59129	7.27491	-0.258
Asta 40 (111-141)	70	massimi	330.00	24.66296	-0.37816	-12.55173	1.59129	-9.10668	0.366
Asta 40 (111-141)	70	minimi	0.00	24.66296	-0.37816	-2.05773	1.59129	14.99894	-0.882
Asta 40 (111-141)	70	minimi	165.00	24.66296	-0.37816	-7.30473	1.59129	7.27491	-0.258
Asta 40 (111-141)	70	minimi	330.00	24.66296	-0.37816	-12.55173	1.59129	-9.10668	0.366
Asta 41 (116-121)	71	massimi	0.00	56.72002	0.30307	17.07577	-0.50915	-11.62661	1.264
Asta 41 (116-121)	71	massimi	330.00	56.72002	0.30307	-1.43723	-0.50915	14.17698	0.264
Asta 41 (116-121)	71	massimi	660.00	56.72002	0.30307	-19.95023	-0.50915	-21.11234	-0.736
Asta 41 (116-121)	71	minimi	0.00	56.72002	0.30307	17.07577	-0.50915	-11.62661	1.264
Asta 41 (116-121)	71	minimi	330.00	56.72002	0.30307	-1.43723	-0.50915	14.17698	0.264
Asta 41 (116-121)	71	minimi	660.00	56.72002	0.30307	-19.95023	-0.50915	-21.11234	-0.736
Asta 42 (126-116)	72	massimi	0.00	9.87903	-0.07484	10.03735	2.35135	-9.6804	-0.344
Asta 42 (126-116)	72	massimi	330.00	9.87903	-0.07484	-0.45666	2.35135	6.12773	-0.097
Asta 42 (126-116)	72	massimi	660.00	9.87903	-0.07484	-10.95066	2.35135	-12.69433	0.15
Asta 42 (126-116)	72	minimi	0.00	9.87903	-0.07484	10.03735	2.35135	-9.6804	-0.344
Asta 42 (126-116)	72	minimi	330.00	9.87903	-0.07484	-0.45666	2.35135	6.12773	-0.097
Asta 42 (126-116)	72	minimi	660.00	9.87903	-0.07484	-10.95066	2.35135	-12.69433	0.15

Asta 43 (121-136)	73	massimi	0.00	8.44441	-0.91007	8.18215	-0.51613	-6.76058	-1.422
Asta 43 (121-136)	73	massimi	165.00	8.44441	-0.91007	2.93515	-0.51613	2.41119	0.08
Asta 43 (121-136)	73	massimi	330.00	8.44441	-0.91007	-2.31185	-0.51613	2.92541	1.581
Asta 43 (121-136)	73	minimi	0.00	8.44441	-0.91007	8.18215	-0.51613	-6.76058	-1.422
Asta 43 (121-136)	73	minimi	165.00	8.44441	-0.91007	2.93515	-0.51613	2.41119	0.08
Asta 43 (121-136)	73	minimi	330.00	8.44441	-0.91007	-2.31185	-0.51613	2.92541	1.581
Asta 44 (131-126)	74	massimi	0.00	12.44428	-0.06867	10.30106	-0.46256	-10.00897	-0.198
Asta 44 (131-126)	74	massimi	330.00	12.44428	-0.06867	-0.19294	-0.46256	6.66943	0.029
Asta 44 (131-126)	74	massimi	660.00	12.44428	-0.06867	-10.68694	-0.46256	-11.28237	0.255
Asta 44 (131-126)	74	minimi	0.00	12.44428	-0.06867	10.30106	-0.46256	-10.00897	-0.198
Asta 44 (131-126)	74	minimi	330.00	12.44428	-0.06867	-0.19294	-0.46256	6.66943	0.029
Asta 44 (131-126)	74	minimi	660.00	12.44428	-0.06867	-10.68694	-0.46256	-11.28237	0.255
Asta 45 (136-131)	75	massimi	0.00	7.84105	0.40982	-0.40445	1.21714	6.72486	0.65
Asta 45 (136-131)	75	massimi	165.00	7.84105	0.40982	-5.65145	1.21714	1.72874	-0.026
Asta 45 (136-131)	75	massimi	330.00	7.84105	0.40982	-10.89845	1.21714	-11.92493	-0.702
Asta 45 (136-131)	75	minimi	0.00	7.84105	0.40982	-0.40445	1.21714	6.72486	0.65
Asta 45 (136-131)	75	minimi	165.00	7.84105	0.40982	-5.65145	1.21714	1.72874	-0.026
Asta 45 (136-131)	75	minimi	330.00	7.84105	0.40982	-10.89845	1.21714	-11.92493	-0.702
Asta 46 (156-131)	76	massimi	0.00	6.09964	0.01549	9.4387	-0.39686	-6.51931	0.179
Asta 46 (156-131)	76	massimi	244.50	6.09964	0.01549	1.6636	-0.39686	7.05325	0.141
Asta 46 (156-131)	76	massimi	489.00	6.09964	0.01549	-6.1115	-0.39686	1.61568	0.103
Asta 46 (156-131)	76	minimi	0.00	6.09964	0.01549	9.4387	-0.39686	-6.51931	0.179
Asta 46 (156-131)	76	minimi	244.50	6.09964	0.01549	1.6636	-0.39686	7.05325	0.141
Asta 46 (156-131)	76	minimi	489.00	6.09964	0.01549	-6.1115	-0.39686	1.61568	0.103

131)									
Asta 47 (136-151)	77	massimi	0.00	7.97971	-0.02759	6.55609	-0.42517	-2.0136	-0.137
Asta 47 (136-151)	77	massimi	244.50	7.97971	-0.02759	-1.21902	-0.42517	4.51097	-0.069
Asta 47 (136-151)	77	massimi	489.00	7.97971	-0.02759	-8.99412	-0.42517	-7.97458	-0.002
Asta 47 (136-151)	77	minimi	0.00	7.97971	-0.02759	6.55609	-0.42517	-2.0136	-0.137
Asta 47 (136-151)	77	minimi	244.50	7.97971	-0.02759	-1.21902	-0.42517	4.51097	-0.069
Asta 47 (136-151)	77	minimi	489.00	7.97971	-0.02759	-8.99412	-0.42517	-7.97458	-0.002
Asta 48 (146-141)	78	massimi	0.00	6.34092	-0.11122	-25.18737	-3.60092	-14.42864	0.174
Asta 48 (146-141)	78	massimi	165.00	3.11291	-0.49495	-1.95018	-3.60092	-50.56685	0.416
Asta 48 (146-141)	78	massimi	330.00	-0.09153	-2.67035	161.20077	-3.60092	56.35742	2.80
Asta 48 (146-141)	78	minimi	0.00	6.34092	-0.11122	-25.18737	-3.60092	-14.42864	0.174
Asta 48 (146-141)	78	minimi	165.00	3.11291	-0.49495	-1.95018	-3.60092	-50.56685	0.416
Asta 48 (146-141)	78	minimi	330.00	-0.09153	-2.67035	161.20077	-3.60092	56.35742	2.80
Asta 49 (151-141)	79	massimi	0.00	2.4907	0.57269	-2.06243	-4.84771	10.70805	0.962
Asta 49 (151-141)	79	massimi	190.00	2.4907	0.57269	-8.10443	-4.84771	1.04954	-0.126
Asta 49 (151-141)	79	massimi	380.00	2.4907	0.57269	-14.14643	-4.84771	-20.08878	-1.214
Asta 49 (151-141)	79	minimi	0.00	2.4907	0.57269	-2.06243	-4.84771	10.70805	0.962
Asta 49 (151-141)	79	minimi	190.00	2.4907	0.57269	-8.10443	-4.84771	1.04954	-0.126
Asta 49 (151-141)	79	minimi	380.00	2.4907	0.57269	-14.14643	-4.84771	-20.08878	-1.214
Asta 50 (156-146)	80	massimi	0.00	2.27944	0.54574	-113.89708	-5.12874	17.13213	-0.302
Asta 50 (156-146)	80	massimi	190.00	1.60738	0.13212	16.91874	-5.12875	-45.86548	-1.223
Asta 50 (156-146)	80	massimi	380.00	0.95146	-2.36336	23.86564	-5.12875	4.26037	0.514
Asta 50 (156-146)	80	minimi	0.00	2.27944	0.54574	-113.89708	-5.12874	17.13213	-0.302
Asta 50 (156-146)	80	minimi	190.00	1.60738	0.13212	16.91874	-5.12875	-45.86548	-1.223
Asta 50	80	minimi	380.00	0.95146	-2.36336	23.86564	-5.12875	4.26037	0.514

(156-146)									
Asta 51 (12-2)	81	massimi	0.00	-1.48665	-0.5079	16.96563	-1.35409	-3.96565	-1.003
Asta 51 (12-2)	81	massimi	237.00	-1.48665	-0.5079	-5.28477	-1.35409	9.87617	0.201
Asta 51 (12-2)	81	massimi	474.00	-1.48665	-0.5079	-27.53517	-1.35409	-29.01545	1.405
Asta 51 (12-2)	81	minimi	0.00	-1.48665	-0.5079	16.96563	-1.35409	-3.96565	-1.003
Asta 51 (12-2)	81	minimi	237.00	-1.48665	-0.5079	-5.28477	-1.35409	9.87617	0.201
Asta 51 (12-2)	81	minimi	474.00	-1.48665	-0.5079	-27.53517	-1.35409	-29.01545	1.405
Asta 52 (2-222)	82	massimi	0.00	3.43626	0.42295	65.71367	-0.55355	-70.53577	1.378
Asta 52 (2-222)	82	massimi	315.00	3.43626	0.42295	3.38777	-0.55355	38.29899	0.046
Asta 52 (2-222)	82	massimi	630.00	3.43626	0.42295	-58.93813	-0.55355	-49.19283	-1.287
Asta 52 (2-222)	82	minimi	0.00	3.43626	0.42295	65.71367	-0.55355	-70.53577	1.378
Asta 52 (2-222)	82	minimi	315.00	3.43626	0.42295	3.38777	-0.55355	38.29899	0.046
Asta 52 (2-222)	82	minimi	630.00	3.43626	0.42295	-58.93813	-0.55355	-49.19283	-1.287
Asta 53 (7-17)	83	massimi	0.00	-2.3556	0.32527	34.93413	-1.03511	-47.28243	0.589
Asta 53 (7-17)	83	massimi	237.00	-2.3556	0.32527	12.68373	-1.03511	9.14473	-0.182
Asta 53 (7-17)	83	massimi	474.00	-2.3556	0.32527	-9.56667	-1.03511	12.83845	-0.953
Asta 53 (7-17)	83	minimi	0.00	-2.3556	0.32527	34.93413	-1.03511	-47.28243	0.589
Asta 53 (7-17)	83	minimi	237.00	-2.3556	0.32527	12.68373	-1.03511	9.14473	-0.182
Asta 53 (7-17)	83	minimi	474.00	-2.3556	0.32527	-9.56667	-1.03511	12.83845	-0.953
Asta 54 (222-7)	84	massimi	0.00	5.05401	-0.27683	56.87096	0.93366	-46.67922	-1.298
Asta 54 (222-7)	84	massimi	315.00	5.05401	-0.27683	-5.45494	0.93366	34.30101	-0.426
Asta 54 (222-7)	84	massimi	630.00	5.05401	-0.27683	-67.78084	0.93366	-81.04534	0.446
Asta 54 (222-7)	84	minimi	0.00	5.05401	-0.27683	56.87096	0.93366	-46.67922	-1.298
Asta 54 (222-7)	84	minimi	315.00	5.05401	-0.27683	-5.45494	0.93366	34.30101	-0.426
Asta 54 (222-7)	84	minimi	630.00	5.05401	-0.27683	-67.78084	0.93366	-81.04534	0.446
Asta 55 (27-12)	85	massimi	0.00	-2.76227	-0.26414	22.79185	-0.51051	-17.97175	-0.732
Asta 55 (27-12)	85	massimi	237.00	-2.76227	-0.26414	0.54146	-0.51051	9.67822	-0.106
Asta 55 (27-12)	85	massimi	474.00	-2.76227	-0.26414	-21.70894	-0.51051	-15.40525	0.52
Asta 55 (27-12)	85	minimi	0.00	-2.76227	-0.26414	22.79185	-0.51051	-17.97175	-0.732
Asta 55 (27-12)	85	minimi	237.00	-2.76227	-0.26414	0.54146	-0.51051	9.67822	-0.106
Asta 55 (27-12)	85	minimi	474.00	-2.76227	-0.26414	-21.70894	-0.51051	-15.40525	0.52
Asta 56 (12-227)	86	massimi	0.00	2.85144	0.41216	117.418	-0.05559	-134.36181	1.668
Asta 56 (12-227)	86	massimi	315.00	2.85144	0.41216	9.8707	-0.05559	66.11791	0.369
Asta 56 (12-227)	86	massimi	630.00	2.85144	0.41216	-97.6766	-0.05559	-72.17637	-0.929
Asta 56 (12-227)	86	minimi	0.00	2.85144	0.41216	117.418	-0.05559	-134.36181	1.668

Asta 56 (12-227)	86	minimi	315.00	2.85144	0.41216	9.8707	-0.05559	66.11791	0.369
Asta 56 (12-227)	86	minimi	630.00	2.85144	0.41216	-97.6766	-0.05559	-72.17637	-0.929
Asta 57 (22-17)	87	massimi	0.00	1.9077	-0.68787	73.41726	3.46744	-32.01695	-2.106
Asta 57 (22-17)	87	massimi	307.50	1.9077	-0.68787	-8.6997	3.46744	67.4863	0.009
Asta 57 (22-17)	87	massimi	615.00	1.9077	-0.68787	-90.81665	3.46744	-85.52008	2.124
Asta 57 (22-17)	87	minimi	0.00	1.9077	-0.68787	73.41726	3.46744	-32.01695	-2.106
Asta 57 (22-17)	87	minimi	307.50	1.9077	-0.68787	-8.6997	3.46744	67.4863	0.009
Asta 57 (22-17)	87	minimi	615.00	1.9077	-0.68787	-90.81665	3.46744	-85.52008	2.124
Asta 58 (17-32)	88	massimi	0.00	-5.01159	0.39496	25.28127	-1.18979	-22.93594	1.151
Asta 58 (17-32)	88	massimi	237.00	-5.01159	0.39496	3.03087	-1.18979	10.61396	0.215
Asta 58 (17-32)	88	massimi	474.00	-5.01159	0.39496	-19.21952	-1.18979	-8.56959	-0.721
Asta 58 (17-32)	88	minimi	0.00	-5.01159	0.39496	25.28127	-1.18979	-22.93594	1.151
Asta 58 (17-32)	88	minimi	237.00	-5.01159	0.39496	3.03087	-1.18979	10.61396	0.215
Asta 58 (17-32)	88	minimi	474.00	-5.01159	0.39496	-19.21952	-1.18979	-8.56959	-0.721
Asta 59 (227-17)	89	massimi	0.00	4.55524	-0.04212	93.38068	0.99008	-69.23463	-0.861
Asta 59 (227-17)	89	massimi	315.00	4.55524	-0.04212	-14.16662	0.99008	55.52753	-0.729
Asta 59 (227-17)	89	massimi	630.00	4.55524	-0.04212	-121.71392	0.99008	-158.48431	-0.596
Asta 59 (227-17)	89	minimi	0.00	4.55524	-0.04212	93.38068	0.99008	-69.23463	-0.861
Asta 59 (227-17)	89	minimi	315.00	4.55524	-0.04212	-14.16662	0.99008	55.52753	-0.729
Asta 59 (227-17)	89	minimi	630.00	4.55524	-0.04212	-121.71392	0.99008	-158.48431	-0.596
Asta 60 (37-22)	90	massimi	0.00	-9.37308	0.63101	12.11921	1.81001	28.74966	0.932
Asta 60 (37-22)	90	massimi	237.00	-9.37308	0.63101	-17.41169	1.81001	22.47807	-0.563
Asta 60 (37-22)	90	massimi	474.00	-9.37308	0.63101	-46.94259	1.81001	-53.78175	-2.059
Asta 60 (37-22)	90	minimi	0.00	-9.37308	0.63101	12.11921	1.81001	28.74966	0.932
Asta 60 (37-22)	90	minimi	237.00	-9.37308	0.63101	-17.41169	1.81001	22.47807	-0.563
Asta 60 (37-22)	90	minimi	474.00	-9.37308	0.63101	-46.94259	1.81001	-53.78175	-2.059
Asta 61 (42-27)	91	massimi	0.00	-3.32623	0.06196	22.74042	-0.03256	-18.67297	-0.196
Asta 61 (42-27)	91	massimi	237.00	-3.32623	0.06196	0.49003	-0.03256	8.85511	-0.343
Asta 61 (42-27)	91	massimi	474.00	-3.32623	0.06196	-21.76037	-0.03256	-16.35025	-0.49
Asta 61 (42-27)	91	minimi	0.00	-3.32623	0.06196	22.74042	-0.03256	-18.67297	-0.196
Asta 61 (42-27)	91	minimi	237.00	-3.32623	0.06196	0.49003	-0.03256	8.85511	-0.343
Asta 61 (42-27)	91	minimi	474.00	-3.32623	0.06196	-21.76037	-0.03256	-16.35025	-0.49
Asta 62 (27-232)	92	massimi	0.00	3.51716	0.13461	114.20546	-0.01064	-122.98472	0.59
Asta 62 (27-232)	92	massimi	315.00	3.51716	0.13461	6.65816	-0.01064	67.37549	0.166
Asta 62 (27-232)	92	massimi	630.00	3.51716	0.13461	-100.88914	-0.01064	-81.0383	-0.258

Asta 62 (27-232)	92	minimi	0.00	3.51716	0.13461	114.20546	-0.01064	-122.98472	0.59
Asta 62 (27-232)	92	minimi	315.00	3.51716	0.13461	6.65816	-0.01064	67.37549	0.166
Asta 62 (27-232)	92	minimi	630.00	3.51716	0.13461	-100.88914	-0.01064	-81.0383	-0.258
Asta 63 (37-32)	93	massimi	0.00	4.30376	-1.07571	92.70744	2.70164	-50.01834	-3.378
Asta 63 (37-32)	93	massimi	307.50	4.30376	-1.07571	-12.27921	2.70164	73.64007	-0.07
Asta 63 (37-32)	93	massimi	615.00	4.30376	-1.07571	-117.26586	2.70164	-125.53546	3.238
Asta 63 (37-32)	93	minimi	0.00	4.30376	-1.07571	92.70744	2.70164	-50.01834	-3.378
Asta 63 (37-32)	93	minimi	307.50	4.30376	-1.07571	-12.27921	2.70164	73.64007	-0.07
Asta 63 (37-32)	93	minimi	615.00	4.30376	-1.07571	-117.26586	2.70164	-125.53546	3.238
Asta 64 (32-47)	94	massimi	0.00	-6.13201	0.78817	22.96888	-0.20953	-18.59269	2.063
Asta 64 (32-47)	94	massimi	237.00	-6.13201	0.78817	0.71849	-0.20953	9.47685	0.195
Asta 64 (32-47)	94	massimi	474.00	-6.13201	0.78817	-21.53191	-0.20953	-15.18706	-1.673
Asta 64 (32-47)	94	minimi	0.00	-6.13201	0.78817	22.96888	-0.20953	-18.59269	2.063
Asta 64 (32-47)	94	minimi	237.00	-6.13201	0.78817	0.71849	-0.20953	9.47685	0.195
Asta 64 (32-47)	94	minimi	474.00	-6.13201	0.78817	-21.53191	-0.20953	-15.18706	-1.673
Asta 65 (232-32)	95	massimi	0.00	6.18257	0.04426	94.20863	0.23592	-76.42865	-0.262
Asta 65 (232-32)	95	massimi	315.00	6.18257	0.04426	-13.33867	0.23592	50.94155	-0.401
Asta 65 (232-32)	95	massimi	630.00	6.18257	0.04426	-120.88597	0.23592	-160.46225	-0.541
Asta 65 (232-32)	95	minimi	0.00	6.18257	0.04426	94.20863	0.23592	-76.42865	-0.262
Asta 65 (232-32)	95	minimi	315.00	6.18257	0.04426	-13.33867	0.23592	50.94155	-0.401
Asta 65 (232-32)	95	minimi	630.00	6.18257	0.04426	-120.88597	0.23592	-160.46225	-0.541
Asta 66 (52-37)	96	massimi	0.00	-20.12648	0.67198	18.30756	-2.11755	32.8618	0.708
Asta 66 (52-37)	96	massimi	237.00	-20.12648	0.67198	-11.22334	-2.11755	41.25659	-0.885
Asta 66 (52-37)	96	massimi	474.00	-20.12648	0.67198	-40.75424	-2.11755	-20.33685	-2.477
Asta 66 (52-37)	96	minimi	0.00	-20.12648	0.67198	18.30756	-2.11755	32.8618	0.708
Asta 66 (52-37)	96	minimi	237.00	-20.12648	0.67198	-11.22334	-2.11755	41.25659	-0.885
Asta 66 (52-37)	96	minimi	474.00	-20.12648	0.67198	-40.75424	-2.11755	-20.33685	-2.477
Asta 67 (72-42)	97	massimi	0.00	-3.70682	0.30576	22.61372	0.41378	-17.98583	0.539
Asta 67 (72-42)	97	massimi	237.00	-3.70682	0.30576	0.36332	0.41378	9.24196	-0.185
Asta 67 (72-42)	97	massimi	474.00	-3.70682	0.30576	-21.88708	0.41378	-16.2637	-0.91
Asta 67 (72-42)	97	minimi	0.00	-3.70682	0.30576	22.61372	0.41378	-17.98583	0.539
Asta 67 (72-42)	97	minimi	237.00	-3.70682	0.30576	0.36332	0.41378	9.24196	-0.185
Asta 67 (72-42)	97	minimi	474.00	-3.70682	0.30576	-21.88708	0.41378	-16.2637	-0.91
Asta 68 (42-237)	98	massimi	0.00	2.24608	-0.11257	114.00081	-0.08831	-122.47693	-0.716
Asta 68 (42-237)	98	massimi	315.00	2.24608	-0.11257	6.45351	-0.08831	67.23863	-0.362

Asta 68 (42-237)	98	massimi	630.00	2.24608	-0.11257	-101.09379	-0.08831	-81.8198	-0.007
Asta 68 (42-237)	98	minimi	0.00	2.24608	-0.11257	114.00081	-0.08831	-122.47693	-0.716
Asta 68 (42-237)	98	minimi	315.00	2.24608	-0.11257	6.45351	-0.08831	67.23863	-0.362
Asta 68 (42-237)	98	minimi	630.00	2.24608	-0.11257	-101.09379	-0.08831	-81.8198	-0.007
Asta 69 (52-47)	99	massimi	0.00	0.20892	-1.8055	88.54425	0.36384	-39.84556	-5.908
Asta 69 (52-47)	99	massimi	307.50	0.20892	-1.8055	-16.4424	0.36384	71.01104	-0.356
Asta 69 (52-47)	99	massimi	615.00	0.20892	-1.8055	-121.42905	0.36384	-140.96632	5.196
Asta 69 (52-47)	99	minimi	0.00	0.20892	-1.8055	88.54425	0.36384	-39.84556	-5.908
Asta 69 (52-47)	99	minimi	307.50	0.20892	-1.8055	-16.4424	0.36384	71.01104	-0.356
Asta 69 (52-47)	99	minimi	615.00	0.20892	-1.8055	-121.42905	0.36384	-140.96632	5.196
Asta 70 (47-77)	100	massimi	0.00	-6.40348	1.28492	22.61776	0.63406	-17.34412	3.197
Asta 70 (47-77)	100	massimi	237.00	-6.40348	1.28492	0.36736	0.63406	9.89326	0.152
Asta 70 (47-77)	100	massimi	474.00	-6.40348	1.28492	-21.88303	0.63406	-15.60281	-2.893
Asta 70 (47-77)	100	minimi	0.00	-6.40348	1.28492	22.61776	0.63406	-17.34412	3.197
Asta 70 (47-77)	100	minimi	237.00	-6.40348	1.28492	0.36736	0.63406	9.89326	0.152
Asta 70 (47-77)	100	minimi	474.00	-6.40348	1.28492	-21.88303	0.63406	-15.60281	-2.893
Asta 71 (237-47)	101	massimi	0.00	4.50446	-0.02592	94.4065	-0.15765	-77.78219	-0.122
Asta 71 (237-47)	101	massimi	315.00	4.50446	-0.02592	-13.1408	-0.15765	50.21127	-0.04
Asta 71 (237-47)	101	massimi	630.00	4.50446	-0.02592	-120.6881	-0.15765	-160.56925	0.041
Asta 71 (237-47)	101	minimi	0.00	4.50446	-0.02592	94.4065	-0.15765	-77.78219	-0.122
Asta 71 (237-47)	101	minimi	315.00	4.50446	-0.02592	-13.1408	-0.15765	50.21127	-0.04
Asta 71 (237-47)	101	minimi	630.00	4.50446	-0.02592	-120.6881	-0.15765	-160.56925	0.041
Asta 72 (67-52)	102	massimi	0.00	-15.15476	1.77396	-11.7856	1.43553	55.20931	0.189
Asta 72 (67-52)	102	massimi	116.50	-15.15476	1.77396	-22.95893	1.43553	34.97062	-1.877
Asta 72 (67-52)	102	massimi	233.00	-15.15476	1.77396	-34.13226	1.43553	1.71501	-3.944
Asta 72 (67-52)	102	minimi	0.00	-15.15476	1.77396	-11.7856	1.43553	55.20931	0.189
Asta 72 (67-52)	102	minimi	116.50	-15.15476	1.77396	-22.95893	1.43553	34.97062	-1.877
Asta 72 (67-52)	102	minimi	233.00	-15.15476	1.77396	-34.13226	1.43553	1.71501	-3.944
Asta 73 (82-67)	103	massimi	0.00	-15.15476	1.77396	11.3446	1.43553	55.74072	4.464
Asta 73 (82-67)	103	massimi	120.50	-15.15476	1.77396	-0.2205	1.43553	62.44299	2.327
Asta 73 (82-67)	103	massimi	241.00	-15.15476	1.77396	-11.7856	1.43553	55.20931	0.189
Asta 73 (82-67)	103	minimi	0.00	-15.15476	1.77396	11.3446	1.43553	55.74072	4.464
Asta 73 (82-67)	103	minimi	120.50	-15.15476	1.77396	-0.2205	1.43553	62.44299	2.327
Asta 73 (82-67)	103	minimi	241.00	-15.15476	1.77396	-11.7856	1.43553	55.20931	0.189
Asta 74 (102-72)	104	massimi	0.00	-3.96464	0.9582	25.63579	-0.56552	-25.19614	3.082

Asta 74 (102-72)	104	massimi	237.00	-3.96464	0.9582	3.38539	-0.56552	9.19397	0.811
Asta 74 (102-72)	104	massimi	474.00	-3.96464	0.9582	-18.865	-0.56552	-9.14937	-1.46
Asta 74 (102-72)	104	minimi	0.00	-3.96464	0.9582	25.63579	-0.56552	-25.19614	3.082
Asta 74 (102-72)	104	minimi	237.00	-3.96464	0.9582	3.38539	-0.56552	9.19397	0.811
Asta 74 (102-72)	104	minimi	474.00	-3.96464	0.9582	-18.865	-0.56552	-9.14937	-1.46
Asta 75 (72-242)	105	massimi	0.00	-1.21731	-0.32634	116.01572	-0.08289	-131.08378	-1.688
Asta 75 (72-242)	105	massimi	315.00	-1.21731	-0.32634	8.46842	-0.08289	64.97875	-0.66
Asta 75 (72-242)	105	massimi	630.00	-1.21731	-0.32634	-99.07888	-0.08289	-77.73271	0.368
Asta 75 (72-242)	105	minimi	0.00	-1.21731	-0.32634	116.01572	-0.08289	-131.08378	-1.688
Asta 75 (72-242)	105	minimi	315.00	-1.21731	-0.32634	8.46842	-0.08289	64.97875	-0.66
Asta 75 (72-242)	105	minimi	630.00	-1.21731	-0.32634	-99.07888	-0.08289	-77.73271	0.368
Asta 76 (82-77)	106	massimi	0.00	-6.82105	-1.83339	88.79331	-3.31016	-41.29877	-5.667
Asta 76 (82-77)	106	massimi	307.50	-6.82105	-1.83339	-16.19334	-3.31016	70.3237	-0.03
Asta 76 (82-77)	106	massimi	615.00	-6.82105	-1.83339	-121.17999	-3.31016	-140.88779	5.608
Asta 76 (82-77)	106	minimi	0.00	-6.82105	-1.83339	88.79331	-3.31016	-41.29877	-5.667
Asta 76 (82-77)	106	minimi	307.50	-6.82105	-1.83339	-16.19334	-3.31016	70.3237	-0.03
Asta 76 (82-77)	106	minimi	615.00	-6.82105	-1.83339	-121.17999	-3.31016	-140.88779	5.608
Asta 77 (77-107)	107	massimi	0.00	-6.48809	0.76391	17.69754	1.40549	-5.51535	2.092
Asta 77 (77-107)	107	massimi	237.00	-6.48809	0.76391	-4.55286	1.40549	10.0611	0.282
Asta 77 (77-107)	107	massimi	474.00	-6.48809	0.76391	-26.80326	1.40549	-27.09589	-1.529
Asta 77 (77-107)	107	minimi	0.00	-6.48809	0.76391	17.69754	1.40549	-5.51535	2.092
Asta 77 (77-107)	107	minimi	237.00	-6.48809	0.76391	-4.55286	1.40549	10.0611	0.282
Asta 77 (77-107)	107	minimi	474.00	-6.48809	0.76391	-26.80326	1.40549	-27.09589	-1.529
Asta 78 (242-77)	108	massimi	0.00	-1.73217	-0.01131	95.52303	-0.65669	-77.96004	0.185
Asta 78 (242-77)	108	massimi	315.00	-1.73217	-0.01131	-12.02427	-0.65669	53.55049	0.22
Asta 78 (242-77)	108	massimi	630.00	-1.73217	-0.01131	-119.57157	-0.65669	-153.71297	0.256
Asta 78 (242-77)	108	minimi	0.00	-1.73217	-0.01131	95.52303	-0.65669	-77.96004	0.185
Asta 78 (242-77)	108	minimi	315.00	-1.73217	-0.01131	-12.02427	-0.65669	53.55049	0.22
Asta 78 (242-77)	108	minimi	630.00	-1.73217	-0.01131	-119.57157	-0.65669	-153.71297	0.256
Asta 79 (97-82)	109	massimi	0.00	-13.86187	-0.46357	-8.06787	5.82829	73.90028	-1.377
Asta 79 (97-82)	109	massimi	45.50	-13.86187	-0.46357	-12.28717	5.82829	69.2695	-1.166
Asta 79 (97-82)	109	massimi	91.00	-13.86187	-0.46357	-16.50647	5.82829	62.71895	-0.955
Asta 79 (97-82)	109	minimi	0.00	-13.86187	-0.46357	-8.06787	5.82829	73.90028	-1.377
Asta 79 (97-82)	109	minimi	45.50	-13.86187	-0.46357	-12.28717	5.82829	69.2695	-1.166
Asta 79 (97-82)	109	minimi	91.00	-13.86187	-0.46357	-16.50647	5.82829	62.71895	-0.955

Asta 80 (112-97)	110	massimi	0.00	-13.86187	-0.46357	28.97038	5.82829	33.87196	-3.153
Asta 80 (112-97)	110	massimi	191.50	-13.86187	-0.46357	10.45126	5.82829	71.61818	-2.265
Asta 80 (112-97)	110	massimi	383.00	-13.86187	-0.46357	-8.06787	5.82829	73.90028	-1.377
Asta 80 (112-97)	110	minimi	0.00	-13.86187	-0.46357	28.97038	5.82829	33.87196	-3.153
Asta 80 (112-97)	110	minimi	191.50	-13.86187	-0.46357	10.45126	5.82829	71.61818	-2.265
Asta 80 (112-97)	110	minimi	383.00	-13.86187	-0.46357	-8.06787	5.82829	73.90028	-1.377
Asta 81 (102-117)	111	massimi	0.00	-22.67697	-2.54273	118.63394	8.32917	-183.46752	-3.538
Asta 81 (102-117)	111	massimi	173.00	-22.67697	-2.54273	75.66371	8.32917	-15.40006	0.861
Asta 81 (102-117)	111	massimi	346.00	-22.67697	-2.54273	32.69349	8.32917	78.32892	5.26
Asta 81 (102-117)	111	minimi	0.00	-22.67697	-2.54273	118.63394	8.32917	-183.46752	-3.538
Asta 81 (102-117)	111	minimi	173.00	-22.67697	-2.54273	75.66371	8.32917	-15.40006	0.861
Asta 81 (102-117)	111	minimi	346.00	-22.67697	-2.54273	32.69349	8.32917	78.32892	5.26
Asta 82 (112-107)	112	massimi	0.00	-10.60551	-3.31068	82.25275	-8.7598	-47.46074	-11.072
Asta 82 (112-107)	112	massimi	307.50	-10.60551	-3.31068	-8.4167	-8.7598	66.06218	-0.892
Asta 82 (112-107)	112	massimi	615.00	-10.60551	-3.31068	-99.08615	-8.7598	-99.22345	9.289
Asta 82 (112-107)	112	minimi	0.00	-10.60551	-3.31068	82.25275	-8.7598	-47.46074	-11.072
Asta 82 (112-107)	112	minimi	307.50	-10.60551	-3.31068	-8.4167	-8.7598	66.06218	-0.892
Asta 82 (112-107)	112	minimi	615.00	-10.60551	-3.31068	-99.08615	-8.7598	-99.22345	9.289
Asta 83 (122-107)	113	massimi	0.00	-19.14659	3.25743	-7.2654	-5.37336	-13.72058	0.695
Asta 83 (122-107)	113	massimi	127.00	-19.14659	3.25743	-50.74367	-5.37336	-50.55634	-3.442
Asta 83 (122-107)	113	massimi	254.00	-19.14659	3.25743	-94.22194	-5.37336	-142.6095	-7.579
Asta 83 (122-107)	113	minimi	0.00	-19.14659	3.25743	-7.2654	-5.37336	-13.72058	0.695
Asta 83 (122-107)	113	minimi	127.00	-19.14659	3.25743	-50.74367	-5.37336	-50.55634	-3.442
Asta 83 (122-107)	113	minimi	254.00	-19.14659	3.25743	-94.22194	-5.37336	-142.6095	-7.579
Asta 84 (142-112)	114	massimi	0.00	-20.36716	7.66534	73.617	6.99402	-98.61178	11.127
Asta 84 (142-112)	114	massimi	165.00	-20.36716	7.66534	60.26379	6.99402	11.83987	-1.521

112)									
Asta 84 (142- 112)	114	massimi	330.00	-20.36716	7.66534	46.91058	6.99402	100.25873	-14.168
Asta 84 (142- 112)	114	minimi	0.00	-20.36716	7.66534	73.617	6.99402	-98.61178	11.127
Asta 84 (142- 112)	114	minimi	165.00	-20.36716	7.66534	60.26379	6.99402	11.83987	-1.521
Asta 84 (142- 112)	114	minimi	330.00	-20.36716	7.66534	46.91058	6.99402	100.25873	-14.168
Asta 85 (117- 122)	115	massimi	0.00	-37.75519	-2.05592	71.12859	-3.63189	1.94334	-5.154
Asta 85 (117- 122)	115	massimi	330.00	-37.75519	-2.05592	-12.74972	-3.63189	98.26849	1.63
Asta 85 (117- 122)	115	massimi	660.00	-37.75519	-2.05592	-96.62803	-3.63189	-82.20479	8.415
Asta 85 (117- 122)	115	minimi	0.00	-37.75519	-2.05592	71.12859	-3.63189	1.94334	-5.154
Asta 85 (117- 122)	115	minimi	330.00	-37.75519	-2.05592	-12.74972	-3.63189	98.26849	1.63
Asta 85 (117- 122)	115	minimi	660.00	-37.75519	-2.05592	-96.62803	-3.63189	-82.20479	8.415
Asta 86 (117- 127)	116	massimi	0.00	1.22422	2.79237	102.79568	14.33932	-51.70543	10.602
Asta 86 (117- 127)	116	massimi	330.00	1.22422	2.79237	2.85244	14.33932	122.61397	1.387
Asta 86 (117- 127)	116	massimi	660.00	1.22422	2.79237	-97.0908	14.33932	-32.87931	-7.828
Asta 86 (117- 127)	116	minimi	0.00	1.22422	2.79237	102.79568	14.33932	-51.70543	10.602
Asta 86 (117- 127)	116	minimi	330.00	1.22422	2.79237	2.85244	14.33932	122.61397	1.387
Asta 86 (117- 127)	116	minimi	660.00	1.22422	2.79237	-97.0908	14.33932	-32.87931	-7.828
Asta 87 (122- 137)	117	massimi	0.00	-8.15789	5.1691	51.20054	-7.2638	-18.6772	8.179
Asta 87 (122- 137)	117	massimi	165.00	-8.15789	5.1691	8.63054	-7.2638	30.68345	-0.35
Asta 87 (122- 137)	117	massimi	330.00	-8.15789	5.1691	-33.93946	-7.2638	9.80359	-8.879
Asta 87 (122- 137)	117	minimi	0.00	-8.15789	5.1691	51.20054	-7.2638	-18.6772	8.179
Asta 87 (122- 137)	117	minimi	165.00	-8.15789	5.1691	8.63054	-7.2638	30.68345	-0.35
Asta 87 (122- 137)	117	minimi	330.00	-8.15789	5.1691	-33.93946	-7.2638	9.80359	-8.879
Asta 88 (127- 132)	118	massimi	0.00	-8.95752	-1.80899	42.43551	-1.26288	-14.42985	-7.617
Asta 88	118	massimi	330.00	-8.95752	-1.80899	9.71326	-1.26288	71.61563	-1.647

(127-132)									
Asta 88 (127-132)	118	massimi	660.00	-8.95752	-1.80899	-23.00899	-1.26288	49.67768	4.322
Asta 88 (127-132)	118	minimi	0.00	-8.95752	-1.80899	42.43551	-1.26288	-14.42985	-7.617
Asta 88 (127-132)	118	minimi	330.00	-8.95752	-1.80899	9.71326	-1.26288	71.61563	-1.647
Asta 88 (127-132)	118	minimi	660.00	-8.95752	-1.80899	-23.00899	-1.26288	49.67768	4.322
Asta 89 (137-132)	119	massimi	0.00	-4.44201	2.83694	35.61941	8.94955	12.65364	1.38
Asta 89 (137-132)	119	massimi	165.00	-4.44201	2.83694	-11.62285	8.94955	32.4508	-3.301
Asta 89 (137-132)	119	massimi	330.00	-4.44201	2.83694	-58.8651	8.94955	-25.70175	-7.982
Asta 89 (137-132)	119	minimi	0.00	-4.44201	2.83694	35.61941	8.94955	12.65364	1.38
Asta 89 (137-132)	119	minimi	165.00	-4.44201	2.83694	-11.62285	8.94955	32.4508	-3.301
Asta 89 (137-132)	119	minimi	330.00	-4.44201	2.83694	-58.8651	8.94955	-25.70175	-7.982
Asta 90 (132-157)	120	massimi	0.00	-5.5447	-1.51066	-16.55576	-0.90033	77.50231	-3.993
Asta 90 (132-157)	120	massimi	244.50	-5.5447	-1.51066	-33.49961	-0.90033	16.30961	-0.299
Asta 90 (132-157)	120	massimi	489.00	-5.5447	-1.51066	-50.44346	-0.90033	-86.3108	3.395
Asta 90 (132-157)	120	minimi	0.00	-5.5447	-1.51066	-16.55576	-0.90033	77.50231	-3.993
Asta 90 (132-157)	120	minimi	244.50	-5.5447	-1.51066	-33.49961	-0.90033	16.30961	-0.299
Asta 90 (132-157)	120	minimi	489.00	-5.5447	-1.51066	-50.44346	-0.90033	-86.3108	3.395
Asta 91 (137-152)	121	massimi	0.00	-2.1444	-2.6649	44.12272	-2.84538	-19.15705	-9.851
Asta 91 (137-152)	121	massimi	244.50	-2.1444	-2.6649	-0.03868	-2.84538	34.73568	-3.336
Asta 91 (137-152)	121	massimi	489.00	-2.1444	-2.6649	-44.20008	-2.84538	-19.3462	3.18
Asta 91 (137-152)	121	minimi	0.00	-2.1444	-2.6649	44.12272	-2.84538	-19.15705	-9.851
Asta 91 (137-152)	121	minimi	244.50	-2.1444	-2.6649	-0.03868	-2.84538	34.73568	-3.336
Asta 91 (137-152)	121	minimi	489.00	-2.1444	-2.6649	-44.20008	-2.84538	-19.3462	3.18
Asta 92 (142-147)	122	massimi	0.00	-2.68397	-1.22384	6.31782	-3.08143	-16.30931	-4.964

Asta 92 (142-147)	122	massimi	165.00	-2.68397	-1.22384	-5.11668	-3.08143	-15.31836	-2.945
Asta 92 (142-147)	122	massimi	330.00	-2.68397	-1.22384	-16.55118	-3.08143	-33.19435	-0.926
Asta 92 (142-147)	122	minimi	0.00	-2.68397	-1.22384	6.31782	-3.08143	-16.30931	-4.964
Asta 92 (142-147)	122	minimi	165.00	-2.68397	-1.22384	-5.11668	-3.08143	-15.31836	-2.945
Asta 92 (142-147)	122	minimi	330.00	-2.68397	-1.22384	-16.55118	-3.08143	-33.19435	-0.926
Asta 93 (152-142)	123	massimi	0.00	4.50416	-0.91587	20.1748	-10.08146	10.05078	2.989
Asta 93 (152-142)	123	massimi	190.00	4.50416	-0.91587	-14.02945	-10.08146	15.88886	4.729
Asta 93 (152-142)	123	massimi	380.00	4.50416	-0.91587	-48.2337	-10.08146	-43.26114	6.469
Asta 93 (152-142)	123	minimi	0.00	4.50416	-0.91587	20.1748	-10.08146	10.05078	2.989
Asta 93 (152-142)	123	minimi	190.00	4.50416	-0.91587	-14.02945	-10.08146	15.88886	4.729
Asta 93 (152-142)	123	minimi	380.00	4.50416	-0.91587	-48.2337	-10.08146	-43.26114	6.469
Asta 94 (157-147)	124	massimi	0.00	1.08676	0.77551	28.41237	-8.76517	-62.38487	3.705
Asta 94 (157-147)	124	massimi	190.00	1.08676	0.77551	15.24537	-8.76517	-20.91001	2.232
Asta 94 (157-147)	124	massimi	380.00	1.08676	0.77551	2.07837	-8.76517	-4.45245	0.758
Asta 94 (157-147)	124	minimi	0.00	1.08676	0.77551	28.41237	-8.76517	-62.38487	3.705
Asta 94 (157-147)	124	minimi	190.00	1.08676	0.77551	15.24537	-8.76517	-20.91001	2.232
Asta 94 (157-147)	124	minimi	380.00	1.08676	0.77551	2.07837	-8.76517	-4.45245	0.758
Asta 95 (2-1)	125	massimi	0.00	-349.84631	19.52982	10.23255	0.26421	-14.44618	33.233
Asta 95 (2-1)	125	massimi	130.00	-355.69631	19.52982	10.23255	0.26421	-1.14387	7.844
Asta 95 (2-1)	125	massimi	260.00	-361.54631	19.52982	10.23255	0.26421	12.15844	-17.545
Asta 95 (2-1)	125	minimi	0.00	-349.84631	19.52982	10.23255	0.26421	-14.44618	33.233
Asta 95 (2-1)	125	minimi	130.00	-355.69631	19.52982	10.23255	0.26421	-1.14387	7.844
Asta 95 (2-1)	125	minimi	260.00	-361.54631	19.52982	10.23255	0.26421	12.15844	-17.545
Asta 96 (7-6)	126	massimi	0.00	-370.64353	-21.607	17.09308	1.17807	-23.9998	-33.67
Asta 96 (7-6)	126	massimi	130.00	-376.49353	-21.607	17.09308	1.17807	-1.77879	-5.581
Asta 96 (7-6)	126	massimi	260.00	-382.34353	-21.607	17.09308	1.17807	20.44221	22.508
Asta 96 (7-6)	126	minimi	0.00	-370.64353	-21.607	17.09308	1.17807	-23.9998	-33.67

Asta 96 (7-6)	126	minimi	130.00	-376.49353	-21.607	17.09308	1.17807	-1.77879	-5.581
Asta 96 (7-6)	126	minimi	260.00	-382.34353	-21.607	17.09308	1.17807	20.44221	22.508
Asta 97 (12-11)	127	massimi	0.00	-450.91569	29.37764	4.23619	0.82472	-6.14151	57.477
Asta 97 (12-11)	127	massimi	130.00	-456.76569	29.37764	4.23619	0.82472	-0.63446	19.286
Asta 97 (12-11)	127	massimi	260.00	-462.61569	29.37764	4.23619	0.82472	4.87259	-18.905
Asta 97 (12-11)	127	minimi	0.00	-450.91569	29.37764	4.23619	0.82472	-6.14151	57.477
Asta 97 (12-11)	127	minimi	130.00	-456.76569	29.37764	4.23619	0.82472	-0.63446	19.286
Asta 97 (12-11)	127	minimi	260.00	-462.61569	29.37764	4.23619	0.82472	4.87259	-18.905
Asta 98 (17-16)	128	massimi	0.00	-579.47514	-15.44853	14.50109	1.74818	-20.81221	-19.098
Asta 98 (17-16)	128	massimi	130.00	-585.32514	-15.44853	14.50109	1.74818	-1.96079	0.985
Asta 98 (17-16)	128	massimi	260.00	-591.17514	-15.44853	14.50109	1.74818	16.89062	21.068
Asta 98 (17-16)	128	minimi	0.00	-579.47514	-15.44853	14.50109	1.74818	-20.81221	-19.098
Asta 98 (17-16)	128	minimi	130.00	-585.32514	-15.44853	14.50109	1.74818	-1.96079	0.985
Asta 98 (17-16)	128	minimi	260.00	-591.17514	-15.44853	14.50109	1.74818	16.89062	21.068
Asta 99 (22-21)	129	massimi	0.00	-180.36273	-10.09756	20.31836	0.49382	-31.34102	-15.742
Asta 99 (22-21)	129	massimi	130.00	-183.28773	-10.09756	20.31836	0.49382	-4.92715	-2.616
Asta 99 (22-21)	129	massimi	260.00	-186.21273	-10.09756	20.31836	0.49382	21.48673	10.511
Asta 99 (22-21)	129	minimi	0.00	-180.36273	-10.09756	20.31836	0.49382	-31.34102	-15.742
Asta 99 (22-21)	129	minimi	130.00	-183.28773	-10.09756	20.31836	0.49382	-4.92715	-2.616
Asta 99 (22-21)	129	minimi	260.00	-186.21273	-10.09756	20.31836	0.49382	21.48673	10.511
Asta 100 (27-26)	130	massimi	0.00	-461.97036	26.29111	-0.34081	0.50337	0.32153	54.509
Asta 100 (27-26)	130	massimi	130.00	-467.82036	26.29111	-0.34081	0.50337	-0.12152	20.331
Asta 100 (27-26)	130	massimi	260.00	-473.67036	26.29111	-0.34081	0.50337	-0.56458	-13.848
Asta 100 (27-26)	130	minimi	0.00	-461.97036	26.29111	-0.34081	0.50337	0.32153	54.509
Asta 100 (27-26)	130	minimi	130.00	-467.82036	26.29111	-0.34081	0.50337	-0.12152	20.331
Asta 100 (27-26)	130	minimi	260.00	-473.67036	26.29111	-0.34081	0.50337	-0.56458	-13.848
Asta 101 (32-31)	131	massimi	0.00	-653.17422	-6.01282	5.4976	1.13033	-7.8652	3.482
Asta 101 (32-31)	131	massimi	130.00	-659.02422	-6.01282	5.4976	1.13033	-0.71833	11.299
Asta 101 (32-31)	131	massimi	260.00	-664.87422	-6.01282	5.4976	1.13033	6.42855	19.115
Asta 101 (32-31)	131	minimi	0.00	-653.17422	-6.01282	5.4976	1.13033	-7.8652	3.482
Asta 101 (32-31)	131	minimi	130.00	-659.02422	-6.01282	5.4976	1.13033	-0.71833	11.299
Asta 101 (32-31)	131	minimi	260.00	-664.87422	-6.01282	5.4976	1.13033	6.42855	19.115
Asta 102 (37-36)	132	massimi	0.00	-232.6444	-12.69004	20.21709	0.28961	-29.36979	-21.462
Asta 102 (37-36)	132	massimi	130.00	-235.5694	-12.69004	20.21709	0.28961	-3.08757	-4.965
Asta 102 (37-36)	132	massimi	260.00	-238.4944	-12.69004	20.21709	0.28961	23.19465	11.532

Asta 102 (37-36)	132	minimi	0.00	-232.6444	-12.69004	20.21709	0.28961	-29.36979	-21.462
Asta 102 (37-36)	132	minimi	130.00	-235.5694	-12.69004	20.21709	0.28961	-3.08757	-4.965
Asta 102 (37-36)	132	minimi	260.00	-238.4944	-12.69004	20.21709	0.28961	23.19465	11.532
Asta 103 (42-41)	133	massimi	0.00	-461.7314	26.89557	-0.6139	-0.45224	0.65124	56.099
Asta 103 (42-41)	133	massimi	130.00	-467.5814	26.89557	-0.6139	-0.45224	-0.14683	21.134
Asta 103 (42-41)	133	massimi	260.00	-473.4314	26.89557	-0.6139	-0.45224	-0.94489	-13.83
Asta 103 (42-41)	133	minimi	0.00	-461.7314	26.89557	-0.6139	-0.45224	0.65124	56.099
Asta 103 (42-41)	133	minimi	130.00	-467.5814	26.89557	-0.6139	-0.45224	-0.14683	21.134
Asta 103 (42-41)	133	minimi	260.00	-473.4314	26.89557	-0.6139	-0.45224	-0.94489	-13.83
Asta 104 (47-46)	134	massimi	0.00	-663.91439	-0.22403	2.09271	0.60013	-3.11772	13.512
Asta 104 (47-46)	134	massimi	130.00	-669.76439	-0.22403	2.09271	0.60013	-0.39719	13.803
Asta 104 (47-46)	134	massimi	260.00	-675.61439	-0.22403	2.09271	0.60013	2.32334	14.094
Asta 104 (47-46)	134	minimi	0.00	-663.91439	-0.22403	2.09271	0.60013	-3.11772	13.512
Asta 104 (47-46)	134	minimi	130.00	-669.76439	-0.22403	2.09271	0.60013	-0.39719	13.803
Asta 104 (47-46)	134	minimi	260.00	-675.61439	-0.22403	2.09271	0.60013	2.32334	14.094
Asta 105 (52-51)	135	massimi	0.00	-266.02687	-14.77625	9.24962	-0.14663	-14.57486	-21.008
Asta 105 (52-51)	135	massimi	130.00	-268.95188	-14.77625	9.24962	-0.14663	-2.55035	-1.799
Asta 105 (52-51)	135	massimi	260.00	-271.87688	-14.77625	9.24962	-0.14663	9.47416	17.41
Asta 105 (52-51)	135	minimi	0.00	-266.02687	-14.77625	9.24962	-0.14663	-14.57486	-21.008
Asta 105 (52-51)	135	minimi	130.00	-268.95188	-14.77625	9.24962	-0.14663	-2.55035	-1.799
Asta 105 (52-51)	135	minimi	260.00	-271.87688	-14.77625	9.24962	-0.14663	9.47416	17.41
Asta 106 (57-56)	136	massimi	0.00	-67.39391	-7.53432	0.07157	-0.21625	-1.23137	-2.38
Asta 106 (57-56)	136	massimi	130.00	-69.42516	-7.53432	0.07157	-0.21625	-1.13832	7.415
Asta 106 (57-56)	136	massimi	260.00	-71.45641	-7.53432	0.07157	-0.21625	-1.04528	17.21
Asta 106 (57-56)	136	minimi	0.00	-67.39391	-7.53432	0.07157	-0.21625	-1.23137	-2.38
Asta 106 (57-56)	136	minimi	130.00	-69.42516	-7.53432	0.07157	-0.21625	-1.13832	7.415
Asta 106 (57-56)	136	minimi	260.00	-71.45641	-7.53432	0.07157	-0.21625	-1.04528	17.21
Asta 107 (62-61)	137	massimi	0.00	-28.01771	-3.75508	0.27489	-0.0676	-0.83065	-4.031
Asta 107 (62-61)	137	massimi	130.00	-30.04896	-3.75508	0.27489	-0.0676	-0.47329	0.85
Asta 107 (62-61)	137	massimi	260.00	-32.08021	-3.75508	0.27489	-0.0676	-0.11593	5.732
Asta 107 (62-61)	137	minimi	0.00	-28.01771	-3.75508	0.27489	-0.0676	-0.83065	-4.031
Asta 107 (62-61)	137	minimi	130.00	-30.04896	-3.75508	0.27489	-0.0676	-0.47329	0.85
Asta 107 (62-61)	137	minimi	260.00	-32.08021	-3.75508	0.27489	-0.0676	-0.11593	5.732
Asta 108 (72-71)	138	massimi	0.00	-455.99271	31.92113	-2.68253	-0.8664	3.67208	63.801
Asta 108 (72-71)	138	massimi	130.00	-461.84271	31.92113	-2.68253	-0.8664	0.18479	22.304

Asta 108 (72-71)	138	massimi	260.00	-467.69271	31.92113	-2.68253	-0.8664	-3.3025	-19.194
Asta 108 (72-71)	138	minimi	0.00	-455.99271	31.92113	-2.68253	-0.8664	3.67208	63.801
Asta 108 (72-71)	138	minimi	130.00	-461.84271	31.92113	-2.68253	-0.8664	0.18479	22.304
Asta 108 (72-71)	138	minimi	260.00	-467.69271	31.92113	-2.68253	-0.8664	-3.3025	-19.194
Asta 109 (77-76)	139	massimi	0.00	-648.2348	3.18487	-3.04516	0.14128	4.35453	15.90
Asta 109 (77-76)	139	massimi	130.00	-654.0848	3.18487	-3.04516	0.14128	0.39583	11.76
Asta 109 (77-76)	139	massimi	260.00	-659.9348	3.18487	-3.04516	0.14128	-3.56288	7.62
Asta 109 (77-76)	139	minimi	0.00	-648.2348	3.18487	-3.04516	0.14128	4.35453	15.90
Asta 109 (77-76)	139	minimi	130.00	-654.0848	3.18487	-3.04516	0.14128	0.39583	11.76
Asta 109 (77-76)	139	minimi	260.00	-659.9348	3.18487	-3.04516	0.14128	-3.56288	7.62
Asta 110 (82-81)	140	massimi	0.00	-264.08354	-21.9809	-2.46575	-0.04106	4.08769	-26.784
Asta 110 (82-81)	140	massimi	130.00	-267.00854	-21.9809	-2.46575	-0.04106	0.88222	1.791
Asta 110 (82-81)	140	massimi	260.00	-269.93354	-21.9809	-2.46575	-0.04106	-2.32325	30.366
Asta 110 (82-81)	140	minimi	0.00	-264.08354	-21.9809	-2.46575	-0.04106	4.08769	-26.784
Asta 110 (82-81)	140	minimi	130.00	-267.00854	-21.9809	-2.46575	-0.04106	0.88222	1.791
Asta 110 (82-81)	140	minimi	260.00	-269.93354	-21.9809	-2.46575	-0.04106	-2.32325	30.366
Asta 111 (87-86)	141	massimi	0.00	-65.36331	-7.08138	1.04423	-0.18749	1.24339	-1.996
Asta 111 (87-86)	141	massimi	130.00	-67.39456	-7.08138	1.04423	-0.18749	2.6009	7.21
Asta 111 (87-86)	141	massimi	260.00	-69.42581	-7.08138	1.04423	-0.18749	3.9584	16.416
Asta 111 (87-86)	141	minimi	0.00	-65.36331	-7.08138	1.04423	-0.18749	1.24339	-1.996
Asta 111 (87-86)	141	minimi	130.00	-67.39456	-7.08138	1.04423	-0.18749	2.6009	7.21
Asta 111 (87-86)	141	minimi	260.00	-69.42581	-7.08138	1.04423	-0.18749	3.9584	16.416
Asta 112 (92-91)	142	massimi	0.00	-26.81552	-3.76564	0.1401	-0.06549	0.88543	-4.011
Asta 112 (92-91)	142	massimi	130.00	-28.84677	-3.76564	0.1401	-0.06549	1.06757	0.884
Asta 112 (92-91)	142	massimi	260.00	-30.87802	-3.76564	0.1401	-0.06549	1.2497	5.78
Asta 112 (92-91)	142	minimi	0.00	-26.81552	-3.76564	0.1401	-0.06549	0.88543	-4.011
Asta 112 (92-91)	142	minimi	130.00	-28.84677	-3.76564	0.1401	-0.06549	1.06757	0.884
Asta 112 (92-91)	142	minimi	260.00	-30.87802	-3.76564	0.1401	-0.06549	1.2497	5.78
Asta 113 (102-101)	143	massimi	0.00	-401.0089	57.32744	-6.82316	1.32878	8.36223	107.299
Asta 113 (102-101)	143	massimi	130.00	-406.8589	57.32744	-6.82316	1.32878	-0.50788	32.773
Asta 113 (102-101)	143	massimi	260.00	-412.7089	57.32744	-6.82316	1.32878	-9.37799	-41.753
Asta 113 (102-101)	143	minimi	0.00	-401.0089	57.32744	-6.82316	1.32878	8.36223	107.299
Asta 113 (102-101)	143	minimi	130.00	-406.8589	57.32744	-6.82316	1.32878	-0.50788	32.773

101)									
Asta 113 (102- 101)	143	minimi	260.00	-412.7089	57.32744	-6.82316	1.32878	-9.37799	-41.753
Asta 114 (107- 106)	144	massimi	0.00	-547.08996	-13.04824	-9.8355	-0.743	13.78422	-14.808
Asta 114 (107- 106)	144	massimi	130.00	-552.93996	-13.04824	-9.8355	-0.743	0.99807	2.154
Asta 114 (107- 106)	144	massimi	260.00	-558.78996	-13.04824	-9.8355	-0.743	-11.78808	19.117
Asta 114 (107- 106)	144	minimi	0.00	-547.08996	-13.04824	-9.8355	-0.743	13.78422	-14.808
Asta 114 (107- 106)	144	minimi	130.00	-552.93996	-13.04824	-9.8355	-0.743	0.99807	2.154
Asta 114 (107- 106)	144	minimi	260.00	-558.78996	-13.04824	-9.8355	-0.743	-11.78808	19.117
Asta 115 (112- 111)	145	massimi	0.00	-150.29785	-17.5097	-21.89024	-0.92534	33.20998	-26.932
Asta 115 (112- 111)	145	massimi	130.00	-153.22285	-17.5097	-21.89024	-0.92534	4.75267	-4.169
Asta 115 (112- 111)	145	massimi	260.00	-156.14785	-17.5097	-21.89024	-0.92534	-23.70464	18.593
Asta 115 (112- 111)	145	minimi	0.00	-150.29785	-17.5097	-21.89024	-0.92534	33.20998	-26.932
Asta 115 (112- 111)	145	minimi	130.00	-153.22285	-17.5097	-21.89024	-0.92534	4.75267	-4.169
Asta 115 (112- 111)	145	minimi	260.00	-156.14785	-17.5097	-21.89024	-0.92534	-23.70464	18.593
Asta 116 (117- 116)	146	massimi	0.00	-223.3271	30.04793	12.43718	-0.02862	-20.66162	43.112
Asta 116 (117- 116)	146	massimi	130.00	-226.25211	30.04793	12.43718	-0.02862	-4.49329	4.05
Asta 116 (117- 116)	146	massimi	260.00	-229.17711	30.04793	12.43718	-0.02862	11.67504	-35.013
Asta 116 (117- 116)	146	minimi	0.00	-223.3271	30.04793	12.43718	-0.02862	-20.66162	43.112
Asta 116 (117- 116)	146	minimi	130.00	-226.25211	30.04793	12.43718	-0.02862	-4.49329	4.05
Asta 116 (117- 116)	146	minimi	260.00	-229.17711	30.04793	12.43718	-0.02862	11.67504	-35.013
Asta 117 (122- 121)	147	massimi	0.00	-202.69057	-27.52251	7.05702	-1.46858	-10.71948	-39.068
Asta 117 (122- 121)	147	massimi	130.00	-205.61557	-27.52251	7.05702	-1.46858	-1.54536	-3.289
Asta 117 (122- 121)	147	massimi	260.00	-208.54057	-27.52251	7.05702	-1.46858	7.62876	32.49
Asta 117 (122- 121)	147	minimi	0.00	-202.69057	-27.52251	7.05702	-1.46858	-10.71948	-39.068
Asta 117	147	minimi	130.00	-205.61557	-27.52251	7.05702	-1.46858	-1.54536	-3.289

(122-121)									
Asta 117 (122-121)	147	minimi	260.00	-208.54057	-27.52251	7.05702	-1.46858	7.62876	32.49
Asta 118 (127-126)	148	massimi	0.00	-214.52155	12.68481	-10.22688	-0.81594	16.95314	18.417
Asta 118 (127-126)	148	massimi	130.00	-217.44655	12.68481	-10.22688	-0.81594	3.6582	1.927
Asta 118 (127-126)	148	massimi	260.00	-220.37156	12.68481	-10.22688	-0.81594	-9.63674	-14.563
Asta 118 (127-126)	148	minimi	0.00	-214.52155	12.68481	-10.22688	-0.81594	16.95314	18.417
Asta 118 (127-126)	148	minimi	130.00	-217.44655	12.68481	-10.22688	-0.81594	3.6582	1.927
Asta 118 (127-126)	148	minimi	260.00	-220.37156	12.68481	-10.22688	-0.81594	-9.63674	-14.563
Asta 119 (132-131)	149	massimi	0.00	-146.96755	-8.60364	-10.30685	0.28101	16.35982	-14.157
Asta 119 (132-131)	149	massimi	130.00	-149.89255	-8.60364	-10.30685	0.28101	2.96091	-2.972
Asta 119 (132-131)	149	massimi	260.00	-152.81755	-8.60364	-10.30685	0.28101	-10.43799	8.213
Asta 119 (132-131)	149	minimi	0.00	-146.96755	-8.60364	-10.30685	0.28101	16.35982	-14.157
Asta 119 (132-131)	149	minimi	130.00	-149.89255	-8.60364	-10.30685	0.28101	2.96091	-2.972
Asta 119 (132-131)	149	minimi	260.00	-152.81755	-8.60364	-10.30685	0.28101	-10.43799	8.213
Asta 120 (137-136)	150	massimi	0.00	-205.57094	1.37716	-2.51524	-1.2314	3.50622	1.469
Asta 120 (137-136)	150	massimi	130.00	-208.49594	1.37716	-2.51524	-1.2314	0.23641	-0.321
Asta 120 (137-136)	150	massimi	260.00	-211.42094	1.37716	-2.51524	-1.2314	-3.03341	-2.112
Asta 120 (137-136)	150	minimi	0.00	-205.57094	1.37716	-2.51524	-1.2314	3.50622	1.469
Asta 120 (137-136)	150	minimi	130.00	-208.49594	1.37716	-2.51524	-1.2314	0.23641	-0.321
Asta 120 (137-136)	150	minimi	260.00	-211.42094	1.37716	-2.51524	-1.2314	-3.03341	-2.112
Asta 121 (142-141)	151	massimi	0.00	-201.09576	-12.51967	-39.68784	-1.69618	49.49142	-20.194
Asta 121 (142-141)	151	massimi	130.00	-204.02076	-12.51967	-39.68784	-1.69618	-2.10278	-3.918
Asta 121 (142-141)	151	massimi	260.00	-206.94577	-12.51967	-39.68784	-1.69618	-53.69697	12.358
Asta 121 (142-141)	151	minimi	0.00	-201.09576	-12.51967	-39.68784	-1.69618	49.49142	-20.194

Asta 121 (142-141)	151	minimi	130.00	-204.02076	-12.51967	-39.68784	-1.69618	-2.10278	-3.918
Asta 121 (142-141)	151	minimi	260.00	-206.94577	-12.51967	-39.68784	-1.69618	-53.69697	12.358
Asta 122 (147-146)	152	massimi	0.00	-44.99051	-0.84024	-8.70428	-0.33935	13.33125	-2.844
Asta 122 (147-146)	152	massimi	130.00	-47.02176	-0.84024	-8.70428	-0.33935	2.01568	-1.752
Asta 122 (147-146)	152	massimi	260.00	-49.05301	-0.84024	-8.70428	-0.33935	-9.29989	-0.659
Asta 122 (147-146)	152	minimi	0.00	-44.99051	-0.84024	-8.70428	-0.33935	13.33125	-2.844
Asta 122 (147-146)	152	minimi	130.00	-47.02176	-0.84024	-8.70428	-0.33935	2.01568	-1.752
Asta 122 (147-146)	152	minimi	260.00	-49.05301	-0.84024	-8.70428	-0.33935	-9.29989	-0.659
Asta 123 (152-151)	153	massimi	0.00	-143.08612	-13.30537	-3.04829	0.97354	5.35002	-19.029
Asta 123 (152-151)	153	massimi	130.00	-146.01112	-13.30537	-3.04829	0.97354	1.38725	-1.732
Asta 123 (152-151)	153	massimi	260.00	-148.93612	-13.30537	-3.04829	0.97354	-2.57553	15.565
Asta 123 (152-151)	153	minimi	0.00	-143.08612	-13.30537	-3.04829	0.97354	5.35002	-19.029
Asta 123 (152-151)	153	minimi	130.00	-146.01112	-13.30537	-3.04829	0.97354	1.38725	-1.732
Asta 123 (152-151)	153	minimi	260.00	-148.93612	-13.30537	-3.04829	0.97354	-2.57553	15.565
Asta 124 (157-156)	154	massimi	0.00	-155.69984	-12.58409	-3.11959	0.11066	5.16664	-14.798
Asta 124 (157-156)	154	massimi	130.00	-157.73109	-12.58409	-3.11959	0.11066	1.11117	1.562
Asta 124 (157-156)	154	massimi	260.00	-159.76234	-12.58409	-3.11959	0.11066	-2.9443	17.921
Asta 124 (157-156)	154	minimi	0.00	-155.69984	-12.58409	-3.11959	0.11066	5.16664	-14.798
Asta 124 (157-156)	154	minimi	130.00	-157.73109	-12.58409	-3.11959	0.11066	1.11117	1.562
Asta 124 (157-156)	154	minimi	260.00	-159.76234	-12.58409	-3.11959	0.11066	-2.9443	17.921
Asta 125 (222-221)	155	massimi	0.00	-115.80909	-1.61775	0.69979	0.01105	-1.48721	-2.514
Asta 125 (222-221)	155	massimi	130.00	-118.73409	-1.61775	0.69979	0.01105	-0.57749	-0.411
Asta 125 (222-221)	155	massimi	260.00	-121.65909	-1.61775	0.69979	0.01105	0.33223	1.693
Asta 125 (222-221)	155	minimi	0.00	-115.80909	-1.61775	0.69979	0.01105	-1.48721	-2.514

221)									
Asta 125 (222- 221)	155	minimi	130.00	-118.73409	-1.61775	0.69979	0.01105	-0.57749	-0.411
Asta 125 (222- 221)	155	minimi	260.00	-121.65909	-1.61775	0.69979	0.01105	0.33223	1.693
Asta 126 (227- 226)	156	massimi	0.00	-191.05728	-1.7038	0.45429	-0.06767	-1.04567	-2.942
Asta 126 (227- 226)	156	massimi	130.00	-193.98228	-1.7038	0.45429	-0.06767	-0.4551	-0.727
Asta 126 (227- 226)	156	massimi	260.00	-196.90728	-1.7038	0.45429	-0.06767	0.13547	1.488
Asta 126 (227- 226)	156	minimi	0.00	-191.05728	-1.7038	0.45429	-0.06767	-1.04567	-2.942
Asta 126 (227- 226)	156	minimi	130.00	-193.98228	-1.7038	0.45429	-0.06767	-0.4551	-0.727
Asta 126 (227- 226)	156	minimi	260.00	-196.90728	-1.7038	0.45429	-0.06767	0.13547	1.488
Asta 127 (232- 231)	157	massimi	0.00	-195.09777	-2.66541	0.09034	0.00345	-0.24656	-4.61
Asta 127 (232- 231)	157	massimi	130.00	-198.02277	-2.66541	0.09034	0.00345	-0.12911	-1.145
Asta 127 (232- 231)	157	massimi	260.00	-200.94777	-2.66541	0.09034	0.00345	-0.01166	2.32
Asta 127 (232- 231)	157	minimi	0.00	-195.09777	-2.66541	0.09034	0.00345	-0.24656	-4.61
Asta 127 (232- 231)	157	minimi	130.00	-198.02277	-2.66541	0.09034	0.00345	-0.12911	-1.145
Asta 127 (232- 231)	157	minimi	260.00	-200.94777	-2.66541	0.09034	0.00345	-0.01166	2.32
Asta 128 (237- 236)	158	massimi	0.00	-195.50028	-2.25838	-0.08665	0.11487	0.06934	-4.038
Asta 128 (237- 236)	158	massimi	130.00	-198.42528	-2.25838	-0.08665	0.11487	-0.04331	-1.102
Asta 128 (237- 236)	158	massimi	260.00	-201.35029	-2.25838	-0.08665	0.11487	-0.15595	1.834
Asta 128 (237- 236)	158	minimi	0.00	-195.50028	-2.25838	-0.08665	0.11487	0.06934	-4.038
Asta 128 (237- 236)	158	minimi	130.00	-198.42528	-2.25838	-0.08665	0.11487	-0.04331	-1.102
Asta 128 (237- 236)	158	minimi	260.00	-201.35029	-2.25838	-0.08665	0.11487	-0.15595	1.834
Asta 129 (242- 241)	159	massimi	0.00	-194.6019	0.51486	-0.31503	0.18297	0.5738	0.227
Asta 129 (242- 241)	159	massimi	130.00	-197.5269	0.51486	-0.31503	0.18297	0.16426	-0.442
Asta 129 (242- 241)	159	massimi	260.00	-200.4519	0.51486	-0.31503	0.18297	-0.24528	-1.111
Asta 129	159	minimi	0.00	-194.6019	0.51486	-0.31503	0.18297	0.5738	0.227

(242-241)									
Asta 129 (242-241)	159	minimi	130.00	-197.5269	0.51486	-0.31503	0.18297	0.16426	-0.442
Asta 129 (242-241)	159	minimi	260.00	-200.4519	0.51486	-0.31503	0.18297	-0.24528	-1.111
Asta 130 (68-53)	160	massimi	0.00	12.07065	4.07028	-6.94025	4.67684	18.67431	5.967
Asta 130 (68-53)	160	massimi	116.50	12.07065	4.07028	-21.57881	4.67684	2.06195	1.225
Asta 130 (68-53)	160	massimi	233.00	12.07065	4.07028	-36.21738	4.67684	-31.60433	-3.516
Asta 130 (68-53)	160	minimi	0.00	12.07065	4.07028	-6.94025	4.67684	18.67431	5.967
Asta 130 (68-53)	160	minimi	116.50	12.07065	4.07028	-21.57881	4.67684	2.06195	1.225
Asta 130 (68-53)	160	minimi	233.00	12.07065	4.07028	-36.21738	4.67684	-31.60433	-3.516
Asta 131 (63-58)	161	massimi	0.00	-3.43755	0.19465	21.41855	0.36916	-11.09508	0.585
Asta 131 (63-58)	161	massimi	204.50	-3.43755	0.19465	-2.52828	0.00448	8.04745	0.187
Asta 131 (63-58)	161	massimi	409.00	-3.43755	0.19465	-25.46131	-0.1821	-20.74467	-0.211
Asta 131 (63-58)	161	minimi	0.00	-3.43755	0.19465	21.41855	0.36916	-11.09508	0.585
Asta 131 (63-58)	161	minimi	204.50	-3.43755	0.19465	-2.52828	0.00448	8.04745	0.187
Asta 131 (63-58)	161	minimi	409.00	-3.43755	0.19465	-25.46131	-0.1821	-20.74467	-0.211
Asta 132 (58-68)	162	massimi	0.00	-9.89592	0.84672	35.01343	0.58032	-37.46461	1.824
Asta 132 (58-68)	162	massimi	205.50	-9.89592	0.84672	10.96714	0.22742	9.64563	0.084
Asta 132 (58-68)	162	massimi	411.00	-9.89592	0.84672	-12.29194	0.0177	8.14959	-1.656
Asta 132 (58-68)	162	minimi	0.00	-9.89592	0.84672	35.01343	0.58032	-37.46461	1.824
Asta 132 (58-68)	162	minimi	205.50	-9.89592	0.84672	10.96714	0.22742	9.64563	0.084
Asta 132 (58-68)	162	minimi	411.00	-9.89592	0.84672	-12.29194	0.0177	8.14959	-1.656
Asta 133 (88-58)	163	massimi	0.00	0.58049	-1.07595	2.74134	-0.17572	-0.0694	-1.753
Asta 133 (88-58)	163	massimi	166.00	0.58049	-1.07595	-0.62016	-0.17572	1.69118	0.033
Asta 133 (88-58)	163	massimi	332.00	0.58049	-1.07595	-3.98166	-0.17572	-2.12834	1.819
Asta 133 (88-58)	163	minimi	0.00	0.58049	-1.07595	2.74134	-0.17572	-0.0694	-1.753
Asta 133 (88-58)	163	minimi	166.00	0.58049	-1.07595	-0.62016	-0.17572	1.69118	0.033
Asta 133 (88-58)	163	minimi	332.00	0.58049	-1.07595	-3.98166	-0.17572	-2.12834	1.819
Asta 134 (93-63)	164	massimi	0.00	-0.08024	-0.31753	3.06134	-0.00434	-0.72008	-0.537
Asta 134 (93-63)	164	massimi	166.00	-0.08024	-0.31753	-0.30016	-0.00434	1.5717	-0.01
Asta 134 (93-63)	164	massimi	332.00	-0.08024	-0.31753	-3.66166	-0.00434	-1.71661	0.517
Asta 134 (93-63)	164	minimi	0.00	-0.08024	-0.31753	3.06134	-0.00434	-0.72008	-0.537
Asta 134 (93-63)	164	minimi	166.00	-0.08024	-0.31753	-0.30016	-0.00434	1.5717	-0.01
Asta 134 (93-63)	164	minimi	332.00	-0.08024	-0.31753	-3.66166	-0.00434	-1.71661	0.517
Asta 135 (83-68)	165	massimi	0.00	11.22393	-5.82564	25.16301	-3.47275	-18.0782	-6.417

Asta 135 (83-68)	165	massimi	120.50	11.22393	-5.82564	15.25735	-3.47275	6.27506	0.603
Asta 135 (83-68)	165	massimi	241.00	11.22393	-5.82564	5.35168	-3.47275	18.692	7.623
Asta 135 (83-68)	165	minimi	0.00	11.22393	-5.82564	25.16301	-3.47275	-18.0782	-6.417
Asta 135 (83-68)	165	minimi	120.50	11.22393	-5.82564	15.25735	-3.47275	6.27506	0.603
Asta 135 (83-68)	165	minimi	241.00	11.22393	-5.82564	5.35168	-3.47275	18.692	7.623
Asta 136 (98-83)	166	massimi	0.00	15.21791	10.20132	-28.42651	5.87577	8.30686	2.056
Asta 136 (98-83)	166	massimi	45.50	15.21791	10.20132	-34.08137	5.87577	-5.91368	-2.585
Asta 136 (98-83)	166	massimi	91.00	15.21791	10.20132	-39.73623	5.87577	-22.70718	-7.227
Asta 136 (98-83)	166	minimi	0.00	15.21791	10.20132	-28.42651	5.87577	8.30686	2.056
Asta 136 (98-83)	166	minimi	45.50	15.21791	10.20132	-34.08137	5.87577	-5.91368	-2.585
Asta 136 (98-83)	166	minimi	91.00	15.21791	10.20132	-39.73623	5.87577	-22.70718	-7.227
Asta 137 (88-93)	167	massimi	0.00	-4.08317	0.22035	26.06318	0.45323	-20.43284	0.299
Asta 137 (88-93)	167	massimi	204.50	-4.08317	0.22035	2.11635	0.08854	8.20796	-0.152
Asta 137 (88-93)	167	massimi	409.00	-4.08317	0.22035	-20.81668	-0.09804	-11.0859	-0.602
Asta 137 (88-93)	167	minimi	0.00	-4.08317	0.22035	26.06318	0.45323	-20.43284	0.299
Asta 137 (88-93)	167	minimi	204.50	-4.08317	0.22035	2.11635	0.08854	8.20796	-0.152
Asta 137 (88-93)	167	minimi	409.00	-4.08317	0.22035	-20.81668	-0.09804	-11.0859	-0.602
Asta 138 (98-88)	168	massimi	0.00	-12.2405	0.68408	13.68408	0.22668	6.48352	1.17
Asta 138 (98-88)	168	massimi	205.50	-12.2405	0.68408	-10.36221	-0.12622	9.76193	-0.236
Asta 138 (98-88)	168	massimi	411.00	-12.2405	0.68408	-33.62129	-0.33594	-35.56592	-1.642
Asta 138 (98-88)	168	minimi	0.00	-12.2405	0.68408	13.68408	0.22668	6.48352	1.17
Asta 138 (98-88)	168	minimi	205.50	-12.2405	0.68408	-10.36221	-0.12622	9.76193	-0.236
Asta 138 (98-88)	168	minimi	411.00	-12.2405	0.68408	-33.62129	-0.33594	-35.56592	-1.642
Asta 139 (113-98)	169	massimi	0.00	14.53382	-2.03918	32.86026	-0.60775	-26.1621	-4.584
Asta 139 (113-98)	169	massimi	191.50	14.53382	-2.03918	9.05891	-0.60775	13.97551	-0.679
Asta 139 (113-98)	169	massimi	383.00	14.53382	-2.03918	-14.74243	-0.60775	8.53355	3.226
Asta 139 (113-98)	169	minimi	0.00	14.53382	-2.03918	32.86026	-0.60775	-26.1621	-4.584
Asta 139 (113-98)	169	minimi	191.50	14.53382	-2.03918	9.05891	-0.60775	13.97551	-0.679
Asta 139 (113-98)	169	minimi	383.00	14.53382	-2.03918	-14.74243	-0.60775	8.53355	3.226
Asta 140 (143-113)	170	massimi	0.00	5.18457	2.41652	20.5352	2.97683	-30.41708	2.493
Asta 140 (143-113)	170	massimi	165.00	5.18457	2.41652	14.96223	2.97683	-1.1317	-1.495
Asta 140 (143-113)	170	massimi	330.00	5.18457	2.41652	9.38927	2.97683	18.95828	-5.482
Asta 140 (143-113)	170	minimi	0.00	5.18457	2.41652	20.5352	2.97683	-30.41708	2.493

Asta 140 (143-113)	170	minimi	165.00	5.18457	2.41652	14.96223	2.97683	-1.1317	-1.495
Asta 140 (143-113)	170	minimi	330.00	5.18457	2.41652	9.38927	2.97683	18.95828	-5.482
Asta 141 (3-2)	171	massimi	0.00	-248.13748	23.47399	9.16885	0.23752	-3.22172	5.474
Asta 141 (3-2)	171	massimi	94.00	-252.36748	23.47399	9.16885	0.23752	5.397	-16.592
Asta 141 (3-2)	171	massimi	188.00	-256.59748	23.47399	9.16885	0.23752	14.01572	-38.657
Asta 141 (3-2)	171	minimi	0.00	-248.13748	23.47399	9.16885	0.23752	-3.22172	5.474
Asta 141 (3-2)	171	minimi	94.00	-252.36748	23.47399	9.16885	0.23752	5.397	-16.592
Asta 141 (3-2)	171	minimi	188.00	-256.59748	23.47399	9.16885	0.23752	14.01572	-38.657
Asta 142 (8-7)	172	massimi	0.00	-259.46856	-26.98628	15.01431	1.32072	-5.87794	-4.394
Asta 142 (8-7)	172	massimi	94.00	-263.69856	-26.98628	15.01431	1.32072	8.23552	20.973
Asta 142 (8-7)	172	massimi	188.00	-267.92856	-26.98628	15.01431	1.32072	22.34897	46.341
Asta 142 (8-7)	172	minimi	0.00	-259.46856	-26.98628	15.01431	1.32072	-5.87794	-4.394
Asta 142 (8-7)	172	minimi	94.00	-263.69856	-26.98628	15.01431	1.32072	8.23552	20.973
Asta 142 (8-7)	172	minimi	188.00	-267.92856	-26.98628	15.01431	1.32072	22.34897	46.341
Asta 143 (13-12)	173	massimi	0.00	-286.36311	31.98532	3.37273	0.96959	-1.09825	-15.909
Asta 143 (13-12)	173	massimi	94.00	-290.59311	31.98532	3.37273	0.96959	2.07212	-45.975
Asta 143 (13-12)	173	massimi	188.00	-294.82311	31.98532	3.37273	0.96959	5.2425	-76.041
Asta 143 (13-12)	173	minimi	0.00	-286.36311	31.98532	3.37273	0.96959	-1.09825	-15.909
Asta 143 (13-12)	173	minimi	94.00	-290.59311	31.98532	3.37273	0.96959	2.07212	-45.975
Asta 143 (13-12)	173	minimi	188.00	-294.82311	31.98532	3.37273	0.96959	5.2425	-76.041
Asta 144 (18-17)	174	massimi	0.00	-323.63664	-18.16575	11.19935	2.32441	-3.61523	19.56
Asta 144 (18-17)	174	massimi	94.00	-327.86664	-18.16575	11.19935	2.32441	6.91216	36.636
Asta 144 (18-17)	174	massimi	188.00	-332.09664	-18.16575	11.19935	2.32441	17.43955	53.712
Asta 144 (18-17)	174	minimi	0.00	-323.63664	-18.16575	11.19935	2.32441	-3.61523	19.56
Asta 144 (18-17)	174	minimi	94.00	-327.86664	-18.16575	11.19935	2.32441	6.91216	36.636
Asta 144 (18-17)	174	minimi	188.00	-332.09664	-18.16575	11.19935	2.32441	17.43955	53.712
Asta 145 (23-22)	175	massimi	0.00	-57.06538	-12.63627	11.63316	0.44628	-2.89706	-5.672
Asta 145 (23-22)	175	massimi	94.00	-58.53413	-12.63627	11.63316	0.44628	8.03811	6.206
Asta 145 (23-22)	175	massimi	188.00	-60.00288	-12.63627	11.63316	0.44628	18.97328	18.085
Asta 145 (23-22)	175	minimi	0.00	-57.06538	-12.63627	11.63316	0.44628	-2.89706	-5.672
Asta 145 (23-22)	175	minimi	94.00	-58.53413	-12.63627	11.63316	0.44628	8.03811	6.206
Asta 145 (23-22)	175	minimi	188.00	-60.00288	-12.63627	11.63316	0.44628	18.97328	18.085
Asta 146 (28-27)	176	massimi	0.00	-294.75267	29.48217	-0.77016	0.85043	0.13728	-12.571
Asta 146 (28-27)	176	massimi	94.00	-298.98267	29.48217	-0.77016	0.85043	-0.58667	-40.284

Asta 146 (28-27)	176	massimi	188.00	-303.21267	29.48217	-0.77016	0.85043	-1.31061	-67.997
Asta 146 (28-27)	176	minimi	0.00	-294.75267	29.48217	-0.77016	0.85043	0.13728	-12.571
Asta 146 (28-27)	176	minimi	94.00	-298.98267	29.48217	-0.77016	0.85043	-0.58667	-40.284
Asta 146 (28-27)	176	minimi	188.00	-303.21267	29.48217	-0.77016	0.85043	-1.31061	-67.997
Asta 147 (33-32)	177	massimi	0.00	-364.37399	-8.28483	3.2572	1.21703	-1.49991	23.814
Asta 147 (33-32)	177	massimi	94.00	-368.60399	-8.28483	3.2572	1.21703	1.56186	31.601
Asta 147 (33-32)	177	massimi	188.00	-372.83399	-8.28483	3.2572	1.21703	4.62362	39.389
Asta 147 (33-32)	177	minimi	0.00	-364.37399	-8.28483	3.2572	1.21703	-1.49991	23.814
Asta 147 (33-32)	177	minimi	94.00	-368.60399	-8.28483	3.2572	1.21703	1.56186	31.601
Asta 147 (33-32)	177	minimi	188.00	-372.83399	-8.28483	3.2572	1.21703	4.62362	39.389
Asta 148 (38-37)	178	massimi	0.00	-84.126	-17.03478	10.53941	0.32108	-2.799	-7.397
Asta 148 (38-37)	178	massimi	94.00	-85.59475	-17.03478	10.53941	0.32108	7.10804	8.616
Asta 148 (38-37)	178	massimi	188.00	-87.0635	-17.03478	10.53941	0.32108	17.01508	24.629
Asta 148 (38-37)	178	minimi	0.00	-84.126	-17.03478	10.53941	0.32108	-2.799	-7.397
Asta 148 (38-37)	178	minimi	94.00	-85.59475	-17.03478	10.53941	0.32108	7.10804	8.616
Asta 148 (38-37)	178	minimi	188.00	-87.0635	-17.03478	10.53941	0.32108	17.01508	24.629
Asta 149 (43-42)	179	massimi	0.00	-294.64308	28.89785	-1.10706	-0.45469	0.23493	-11.604
Asta 149 (43-42)	179	massimi	94.00	-298.87308	28.89785	-1.10706	-0.45469	-0.80571	-38.768
Asta 149 (43-42)	179	massimi	188.00	-303.10308	28.89785	-1.10706	-0.45469	-1.84635	-65.932
Asta 149 (43-42)	179	minimi	0.00	-294.64308	28.89785	-1.10706	-0.45469	0.23493	-11.604
Asta 149 (43-42)	179	minimi	94.00	-298.87308	28.89785	-1.10706	-0.45469	-0.80571	-38.768
Asta 149 (43-42)	179	minimi	188.00	-303.10308	28.89785	-1.10706	-0.45469	-1.84635	-65.932
Asta 150 (48-47)	180	massimi	0.00	-369.18756	-5.01633	0.04167	0.23301	-0.51751	24.527
Asta 150 (48-47)	180	massimi	94.00	-373.41756	-5.01633	0.04167	0.23301	-0.47834	29.243
Asta 150 (48-47)	180	massimi	188.00	-377.64756	-5.01633	0.04167	0.23301	-0.43917	33.958
Asta 150 (48-47)	180	minimi	0.00	-369.18756	-5.01633	0.04167	0.23301	-0.51751	24.527
Asta 150 (48-47)	180	minimi	94.00	-373.41756	-5.01633	0.04167	0.23301	-0.47834	29.243
Asta 150 (48-47)	180	minimi	188.00	-377.64756	-5.01633	0.04167	0.23301	-0.43917	33.958
Asta 151 (53-52)	181	massimi	0.00	-122.10531	-16.08715	16.02684	-1.40239	-13.92237	-7.854
Asta 151 (53-52)	181	massimi	94.00	-123.57406	-16.08715	16.02684	-1.40239	1.14286	7.268
Asta 151 (53-52)	181	massimi	188.00	-125.04281	-16.08715	16.02684	-1.40239	16.20809	22.39
Asta 151 (53-52)	181	minimi	0.00	-122.10531	-16.08715	16.02684	-1.40239	-13.92237	-7.854
Asta 151 (53-52)	181	minimi	94.00	-123.57406	-16.08715	16.02684	-1.40239	1.14286	7.268
Asta 151 (53-52)	181	minimi	188.00	-125.04281	-16.08715	16.02684	-1.40239	16.20809	22.39
Asta 152 (58-57)	182	massimi	0.00	-64.45641	-7.53432	0.07157	-0.21625	-1.36593	-16.544

Asta 152 (58-57)	182	massimi	94.00	-65.92516	-7.53432	0.07157	-0.21625	-1.29865	-9.462
Asta 152 (58-57)	182	massimi	188.00	-67.39391	-7.53432	0.07157	-0.21625	-1.23137	-2.38
Asta 152 (58-57)	182	minimi	0.00	-64.45641	-7.53432	0.07157	-0.21625	-1.36593	-16.544
Asta 152 (58-57)	182	minimi	94.00	-65.92516	-7.53432	0.07157	-0.21625	-1.29865	-9.462
Asta 152 (58-57)	182	minimi	188.00	-67.39391	-7.53432	0.07157	-0.21625	-1.23137	-2.38
Asta 153 (63-62)	183	massimi	0.00	-25.08021	-3.75508	0.27489	-0.0676	-1.34745	-11.091
Asta 153 (63-62)	183	massimi	94.00	-26.54896	-3.75508	0.27489	-0.0676	-1.08905	-7.561
Asta 153 (63-62)	183	massimi	188.00	-28.01771	-3.75508	0.27489	-0.0676	-0.83065	-4.031
Asta 153 (63-62)	183	minimi	0.00	-25.08021	-3.75508	0.27489	-0.0676	-1.34745	-11.091
Asta 153 (63-62)	183	minimi	94.00	-26.54896	-3.75508	0.27489	-0.0676	-1.08905	-7.561
Asta 153 (63-62)	183	minimi	188.00	-28.01771	-3.75508	0.27489	-0.0676	-0.83065	-4.031
Asta 154 (73-72)	184	massimi	0.00	-290.03827	30.05138	-3.26668	-0.55494	0.89409	-11.765
Asta 154 (73-72)	184	massimi	94.00	-294.26827	30.05138	-3.26668	-0.55494	-2.17659	-40.013
Asta 154 (73-72)	184	massimi	188.00	-298.49827	30.05138	-3.26668	-0.55494	-5.24727	-68.262
Asta 154 (73-72)	184	minimi	0.00	-290.03827	30.05138	-3.26668	-0.55494	0.89409	-11.765
Asta 154 (73-72)	184	minimi	94.00	-294.26827	30.05138	-3.26668	-0.55494	-2.17659	-40.013
Asta 154 (73-72)	184	minimi	188.00	-298.49827	30.05138	-3.26668	-0.55494	-5.24727	-68.262
Asta 155 (78-77)	185	massimi	0.00	-359.44266	-1.383	-4.95185	-0.73712	0.92307	26.897
Asta 155 (78-77)	185	massimi	94.00	-363.67266	-1.383	-4.95185	-0.73712	-3.73167	28.197
Asta 155 (78-77)	185	massimi	188.00	-367.90266	-1.383	-4.95185	-0.73712	-8.38641	29.497
Asta 155 (78-77)	185	minimi	0.00	-359.44266	-1.383	-4.95185	-0.73712	0.92307	26.897
Asta 155 (78-77)	185	minimi	94.00	-363.67266	-1.383	-4.95185	-0.73712	-3.73167	28.197
Asta 155 (78-77)	185	minimi	188.00	-367.90266	-1.383	-4.95185	-0.73712	-8.38641	29.497
Asta 156 (83-82)	186	massimi	0.00	-144.50165	-12.92233	0.66054	-0.28865	-0.82218	-5.387
Asta 156 (83-82)	186	massimi	94.00	-145.9704	-12.92233	0.66054	-0.28865	-0.20128	6.76
Asta 156 (83-82)	186	massimi	188.00	-147.43915	-12.92233	0.66054	-0.28865	0.41962	18.907
Asta 156 (83-82)	186	minimi	0.00	-144.50165	-12.92233	0.66054	-0.28865	-0.82218	-5.387
Asta 156 (83-82)	186	minimi	94.00	-145.9704	-12.92233	0.66054	-0.28865	-0.20128	6.76
Asta 156 (83-82)	186	minimi	188.00	-147.43915	-12.92233	0.66054	-0.28865	0.41962	18.907
Asta 157 (88-87)	187	massimi	0.00	-62.42581	-7.08138	1.04423	-0.18749	-0.71976	-15.309
Asta 157 (88-87)	187	massimi	94.00	-63.89456	-7.08138	1.04423	-0.18749	0.26181	-8.652
Asta 157 (88-87)	187	massimi	188.00	-65.36331	-7.08138	1.04423	-0.18749	1.24339	-1.996
Asta 157 (88-87)	187	minimi	0.00	-62.42581	-7.08138	1.04423	-0.18749	-0.71976	-15.309
Asta 157 (88-87)	187	minimi	94.00	-63.89456	-7.08138	1.04423	-0.18749	0.26181	-8.652
Asta 157 (88-87)	187	minimi	188.00	-65.36331	-7.08138	1.04423	-0.18749	1.24339	-1.996

Asta 158 (93-92)	188	massimi	0.00	-23.87802	-3.76564	0.1401	-0.06549	0.62204	-11.09
Asta 158 (93-92)	188	massimi	94.00	-25.34677	-3.76564	0.1401	-0.06549	0.75374	-7.551
Asta 158 (93-92)	188	massimi	188.00	-26.81552	-3.76564	0.1401	-0.06549	0.88543	-4.011
Asta 158 (93-92)	188	minimi	0.00	-23.87802	-3.76564	0.1401	-0.06549	0.62204	-11.09
Asta 158 (93-92)	188	minimi	94.00	-25.34677	-3.76564	0.1401	-0.06549	0.75374	-7.551
Asta 158 (93-92)	188	minimi	188.00	-26.81552	-3.76564	0.1401	-0.06549	0.88543	-4.011
Asta 159 (103-102)	189	massimi	0.00	-248.27917	35.60867	-5.40125	0.87218	1.64961	-8.659
Asta 159 (103-102)	189	massimi	94.00	-252.50917	35.60867	-5.40125	0.87218	-3.42756	-42.131
Asta 159 (103-102)	189	massimi	188.00	-256.73917	35.60867	-5.40125	0.87218	-8.50474	-75.603
Asta 159 (103-102)	189	minimi	0.00	-248.27917	35.60867	-5.40125	0.87218	1.64961	-8.659
Asta 159 (103-102)	189	minimi	94.00	-252.50917	35.60867	-5.40125	0.87218	-3.42756	-42.131
Asta 159 (103-102)	189	minimi	188.00	-256.73917	35.60867	-5.40125	0.87218	-8.50474	-75.603
Asta 160 (108-107)	190	massimi	0.00	-318.51861	-3.74324	-9.91552	-0.92421	1.94308	20.135
Asta 160 (108-107)	190	massimi	94.00	-322.74861	-3.74324	-9.91552	-0.92421	-7.37751	23.654
Asta 160 (108-107)	190	massimi	188.00	-326.97861	-3.74324	-9.91552	-0.92421	-16.6981	27.172
Asta 160 (108-107)	190	minimi	0.00	-318.51861	-3.74324	-9.91552	-0.92421	1.94308	20.135
Asta 160 (108-107)	190	minimi	94.00	-322.74861	-3.74324	-9.91552	-0.92421	-7.37751	23.654
Asta 160 (108-107)	190	minimi	188.00	-326.97861	-3.74324	-9.91552	-0.92421	-16.6981	27.172
Asta 161 (113-112)	191	massimi	0.00	-83.04779	-15.0331	-25.08485	-0.98167	22.74254	-6.568
Asta 161 (113-112)	191	massimi	94.00	-84.51654	-15.0331	-25.08485	-0.98167	-0.83722	7.563
Asta 161 (113-112)	191	massimi	188.00	-85.98529	-15.0331	-25.08485	-0.98167	-24.41698	21.695
Asta 161 (113-112)	191	minimi	0.00	-83.04779	-15.0331	-25.08485	-0.98167	22.74254	-6.568
Asta 161 (113-112)	191	minimi	94.00	-84.51654	-15.0331	-25.08485	-0.98167	-0.83722	7.563
Asta 161 (113-112)	191	minimi	188.00	-85.98529	-15.0331	-25.08485	-0.98167	-24.41698	21.695
Asta 162 (118-117)	192	massimi	0.00	-79.15882	12.17734	14.14821	0.15901	-7.51587	3.959
Asta 162 (118-117)	192	massimi	94.00	-80.62757	12.17734	14.14821	0.15901	5.78344	-7.488

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Asta 162 (118- 117)	192	massimi	188.00	-82.09632	12.17734	14.14821	0.15901	19.08276	-18.934
Asta 162 (118- 117)	192	minimi	0.00	-79.15882	12.17734	14.14821	0.15901	-7.51587	3.959
Asta 162 (118- 117)	192	minimi	94.00	-80.62757	12.17734	14.14821	0.15901	5.78344	-7.488
Asta 162 (118- 117)	192	minimi	188.00	-82.09632	12.17734	14.14821	0.15901	19.08276	-18.934
Asta 163 (123- 122)	193	massimi	0.00	-59.1899	-14.08302	4.21247	-1.00908	-1.7032	-4.324
Asta 163 (123- 122)	193	massimi	94.00	-60.65865	-14.08302	4.21247	-1.00908	2.25652	8.914
Asta 163 (123- 122)	193	massimi	188.00	-62.1274	-14.08302	4.21247	-1.00908	6.21624	22.152
Asta 163 (123- 122)	193	minimi	0.00	-59.1899	-14.08302	4.21247	-1.00908	-1.7032	-4.324
Asta 163 (123- 122)	193	minimi	94.00	-60.65865	-14.08302	4.21247	-1.00908	2.25652	8.914
Asta 163 (123- 122)	193	minimi	188.00	-62.1274	-14.08302	4.21247	-1.00908	6.21624	22.152
Asta 164 (128- 127)	194	massimi	0.00	-72.05775	6.51966	-13.26009	-0.60509	7.73991	1.905
Asta 164 (128- 127)	194	massimi	94.00	-73.52649	6.51966	-13.26009	-0.60509	-4.72457	-4.224
Asta 164 (128- 127)	194	massimi	188.00	-74.99524	6.51966	-13.26009	-0.60509	-17.18905	-10.352
Asta 164 (128- 127)	194	minimi	0.00	-72.05775	6.51966	-13.26009	-0.60509	7.73991	1.905
Asta 164 (128- 127)	194	minimi	94.00	-73.52649	6.51966	-13.26009	-0.60509	-4.72457	-4.224
Asta 164 (128- 127)	194	minimi	188.00	-74.99524	6.51966	-13.26009	-0.60509	-17.18905	-10.352
Asta 165 (133- 132)	195	massimi	0.00	-78.71172	-2.35387	-5.56651	-0.05143	1.48567	0.293
Asta 165 (133- 132)	195	massimi	94.00	-80.18047	-2.35387	-5.56651	-0.05143	-3.74685	2.506
Asta 165 (133- 132)	195	massimi	188.00	-81.64922	-2.35387	-5.56651	-0.05143	-8.97938	4.718
Asta 165 (133- 132)	195	minimi	0.00	-78.71172	-2.35387	-5.56651	-0.05143	1.48567	0.293
Asta 165 (133- 132)	195	minimi	94.00	-80.18047	-2.35387	-5.56651	-0.05143	-3.74685	2.506
Asta 165 (133- 132)	195	minimi	188.00	-81.64922	-2.35387	-5.56651	-0.05143	-8.97938	4.718
Asta 166 (138- 137)	196	massimi	0.00	-88.95185	1.56492	-1.46426	-0.82394	0.5636	1.467
Asta 166	196	massimi	94.00	-90.4206	1.56492	-1.46426	-0.82394	-0.81281	-0.004

(138-137)									
Asta 166 (138-137)	196	massimi	188.00	-91.88935	1.56492	-1.46426	-0.82394	-2.18921	-1.475
Asta 166 (138-137)	196	minimi	0.00	-88.95185	1.56492	-1.46426	-0.82394	0.5636	1.467
Asta 166 (138-137)	196	minimi	94.00	-90.4206	1.56492	-1.46426	-0.82394	-0.81281	-0.004
Asta 166 (138-137)	196	minimi	188.00	-91.88935	1.56492	-1.46426	-0.82394	-2.18921	-1.475
Asta 167 (143-142)	197	massimi	0.00	-69.98974	-8.13465	-21.08878	-2.00215	16.9173	-2.301
Asta 167 (143-142)	197	massimi	94.00	-71.45849	-8.13465	-21.08878	-2.00215	-2.90614	5.346
Asta 167 (143-142)	197	massimi	188.00	-72.92724	-8.13465	-21.08878	-2.00215	-22.72959	12.992
Asta 167 (143-142)	197	minimi	0.00	-69.98974	-8.13465	-21.08878	-2.00215	16.9173	-2.301
Asta 167 (143-142)	197	minimi	94.00	-71.45849	-8.13465	-21.08878	-2.00215	-2.90614	5.346
Asta 167 (143-142)	197	minimi	188.00	-72.92724	-8.13465	-21.08878	-2.00215	-22.72959	12.992
Asta 168 (148-147)	198	massimi	0.00	-27.58021	-3.15084	-6.79582	-0.1722	1.67821	-1.234
Asta 168 (148-147)	198	massimi	94.00	-29.04896	-3.15084	-6.79582	-0.1722	-4.70985	1.728
Asta 168 (148-147)	198	massimi	188.00	-30.51771	-3.15084	-6.79582	-0.1722	-11.09792	4.69
Asta 168 (148-147)	198	minimi	0.00	-27.58021	-3.15084	-6.79582	-0.1722	1.67821	-1.234
Asta 168 (148-147)	198	minimi	94.00	-29.04896	-3.15084	-6.79582	-0.1722	-4.70985	1.728
Asta 168 (148-147)	198	minimi	188.00	-30.51771	-3.15084	-6.79582	-0.1722	-11.09792	4.69
Asta 169 (153-152)	199	massimi	0.00	-75.77374	-6.6568	-1.29927	0.78209	0.55657	-2.146
Asta 169 (153-152)	199	massimi	94.00	-77.24249	-6.6568	-1.29927	0.78209	-0.66474	4.111
Asta 169 (153-152)	199	massimi	188.00	-78.71124	-6.6568	-1.29927	0.78209	-1.88606	10.368
Asta 169 (153-152)	199	minimi	0.00	-75.77374	-6.6568	-1.29927	0.78209	0.55657	-2.146
Asta 169 (153-152)	199	minimi	94.00	-77.24249	-6.6568	-1.29927	0.78209	-0.66474	4.111
Asta 169 (153-152)	199	minimi	188.00	-78.71124	-6.6568	-1.29927	0.78209	-1.88606	10.368
Asta 170 (158-157)	200	massimi	0.00	-73.9065	-5.95263	-0.83343	0.42145	-1.13135	-2.063

Asta 170 (158-157)	200	massimi	94.00	-75.37525	-5.95263	-0.83343	0.42145	-1.91477	3.533
Asta 170 (158-157)	200	massimi	188.00	-76.844	-5.95263	-0.83343	0.42145	-2.6982	9.128
Asta 170 (158-157)	200	minimi	0.00	-73.9065	-5.95263	-0.83343	0.42145	-1.13135	-2.063
Asta 170 (158-157)	200	minimi	94.00	-75.37525	-5.95263	-0.83343	0.42145	-1.91477	3.533
Asta 170 (158-157)	200	minimi	188.00	-76.844	-5.95263	-0.83343	0.42145	-2.6982	9.128
Asta 171 (4-9)	201	massimi	0.00	39.30857	0.08717	52.47105	-0.80716	-106.92755	0.371
Asta 171 (4-9)	201	massimi	630.00	39.30857	0.08717	-0.582	0.27748	55.20624	-0.179
Asta 171 (4-9)	201	massimi	1260.00	39.30857	0.08717	-51.12706	0.90862	-108.994	-0.728
Asta 171 (4-9)	201	minimi	0.00	39.30857	0.08717	52.47105	-0.80716	-106.92755	0.371
Asta 171 (4-9)	201	minimi	630.00	39.30857	0.08717	-0.582	0.27748	55.20624	-0.179
Asta 171 (4-9)	201	minimi	1260.00	39.30857	0.08717	-51.12706	0.90862	-108.994	-0.728
Asta 172 (14-4)	202	massimi	0.00	-0.99606	0.2754	19.51167	0.55218	-5.39393	0.957
Asta 172 (14-4)	202	massimi	237.00	-0.99606	0.2754	-5.26396	0.976	11.25052	0.304
Asta 172 (14-4)	202	massimi	474.00	-0.99606	0.2754	-28.82904	1.18851	-29.38876	-0.349
Asta 172 (14-4)	202	minimi	0.00	-0.99606	0.2754	19.51167	0.55218	-5.39393	0.957
Asta 172 (14-4)	202	minimi	237.00	-0.99606	0.2754	-5.26396	0.976	11.25052	0.304
Asta 172 (14-4)	202	minimi	474.00	-0.99606	0.2754	-28.82904	1.18851	-29.38876	-0.349
Asta 173 (9-19)	203	massimi	0.00	-2.6892	-0.90645	36.63659	-2.96133	-46.1473	-2.507
Asta 173 (9-19)	203	massimi	237.00	-2.6892	-0.90645	11.86096	-2.53751	11.08322	-0.359
Asta 173 (9-19)	203	massimi	474.00	-2.6892	-0.90645	-11.70412	-2.325	11.02999	1.789
Asta 173 (9-19)	203	minimi	0.00	-2.6892	-0.90645	36.63659	-2.96133	-46.1473	-2.507
Asta 173 (9-19)	203	minimi	237.00	-2.6892	-0.90645	11.86096	-2.53751	11.08322	-0.359
Asta 173 (9-19)	203	minimi	474.00	-2.6892	-0.90645	-11.70412	-2.325	11.02999	1.789
Asta 174 (29-14)	204	massimi	0.00	-0.84492	-0.5216	25.51332	-1.11309	-20.24492	-1.331
Asta 174 (29-14)	204	massimi	237.00	-0.84492	-0.5216	0.73768	-0.68927	10.62343	-0.095
Asta 174 (29-14)	204	massimi	474.00	-0.84492	-0.5216	-22.82739	-0.47676	-15.79196	1.141
Asta 174 (29-14)	204	minimi	0.00	-0.84492	-0.5216	25.51332	-1.11309	-20.24492	-1.331
Asta 174 (29-14)	204	minimi	237.00	-0.84492	-0.5216	0.73768	-0.68927	10.62343	-0.095
Asta 174 (29-14)	204	minimi	474.00	-0.84492	-0.5216	-22.82739	-0.47676	-15.79196	1.141
Asta 175 (24-19)	205	massimi	0.00	-13.25335	-0.77605	40.31279	0.93871	-21.48676	-2.281
Asta 175 (24-19)	205	massimi	307.50	-13.25335	-0.77605	-2.72019	0.38009	35.87825	0.106
Asta 175 (24-19)	205	massimi	615.00	-13.25335	-0.77605	-44.06104	0.11333	-36.48149	2.492
Asta 175	205	minimi	0.00	-13.25335	-0.77605	40.31279	0.93871	-21.48676	-2.281

(24-19)									
Asta 175 (24-19)	205	minimi	307.50	-13.25335	-0.77605	-2.72019	0.38009	35.87825	0.106
Asta 175 (24-19)	205	minimi	615.00	-13.25335	-0.77605	-44.06104	0.11333	-36.48149	2.492
Asta 176 (19-34)	206	massimi	0.00	-4.31085	0.21389	23.27573	-1.0305	-20.05647	0.912
Asta 176 (19-34)	206	massimi	237.00	-4.31085	0.21389	2.29555	-1.0305	10.2455	0.405
Asta 176 (19-34)	206	massimi	474.00	-4.31085	0.21389	-18.68464	-1.0305	-9.17557	-0.102
Asta 176 (19-34)	206	minimi	0.00	-4.31085	0.21389	23.27573	-1.0305	-20.05647	0.912
Asta 176 (19-34)	206	minimi	237.00	-4.31085	0.21389	2.29555	-1.0305	10.2455	0.405
Asta 176 (19-34)	206	minimi	474.00	-4.31085	0.21389	-18.68464	-1.0305	-9.17557	-0.102
Asta 177 (39-24)	207	massimi	0.00	-12.40921	0.61708	5.17549	1.50817	4.99047	1.09
Asta 177 (39-24)	207	massimi	237.00	-12.40921	0.61708	-5.27388	1.09398	4.66983	-0.372
Asta 177 (39-24)	207	massimi	474.00	-12.40921	0.61708	-14.6901	0.86475	-19.19154	-1.835
Asta 177 (39-24)	207	minimi	0.00	-12.40921	0.61708	5.17549	1.50817	4.99047	1.09
Asta 177 (39-24)	207	minimi	237.00	-12.40921	0.61708	-5.27388	1.09398	4.66983	-0.372
Asta 177 (39-24)	207	minimi	474.00	-12.40921	0.61708	-14.6901	0.86475	-19.19154	-1.835
Asta 178 (44-29)	208	massimi	0.00	-1.2722	0.03362	25.39281	-0.5073	-20.95754	-0.453
Asta 178 (44-29)	208	massimi	237.00	-1.2722	0.03362	0.61718	-0.08348	9.62521	-0.533
Asta 178 (44-29)	208	massimi	474.00	-1.2722	0.03362	-22.9479	0.12904	-17.07577	-0.612
Asta 178 (44-29)	208	minimi	0.00	-1.2722	0.03362	25.39281	-0.5073	-20.95754	-0.453
Asta 178 (44-29)	208	minimi	237.00	-1.2722	0.03362	0.61718	-0.08348	9.62521	-0.533
Asta 178 (44-29)	208	minimi	474.00	-1.2722	0.03362	-22.9479	0.12904	-17.07577	-0.612
Asta 179 (39-34)	209	massimi	0.00	-17.2481	-1.37085	63.32477	0.75547	-32.33951	-4.084
Asta 179 (39-34)	209	massimi	307.50	-17.2481	-1.37085	-6.61558	0.75547	54.85086	0.131
Asta 179 (39-34)	209	massimi	615.00	-17.2481	-1.37085	-76.55593	0.75547	-73.02534	4.347
Asta 179 (39-34)	209	minimi	0.00	-17.2481	-1.37085	63.32477	0.75547	-32.33951	-4.084
Asta 179 (39-34)	209	minimi	307.50	-17.2481	-1.37085	-6.61558	0.75547	54.85086	0.131
Asta 179 (39-34)	209	minimi	615.00	-17.2481	-1.37085	-76.55593	0.75547	-73.02534	4.347
Asta 180 (34-49)	210	massimi	0.00	-5.8304	0.81977	20.49561	-0.14301	-14.57102	2.305
Asta 180 (34-49)	210	massimi	237.00	-5.8304	0.81977	-0.48457	-0.14301	9.14207	0.362
Asta 180 (34-49)	210	massimi	474.00	-5.8304	0.81977	-21.46476	-0.14301	-16.86788	-1.58
Asta 180 (34-49)	210	minimi	0.00	-5.8304	0.81977	20.49561	-0.14301	-14.57102	2.305
Asta 180 (34-49)	210	minimi	237.00	-5.8304	0.81977	-0.48457	-0.14301	9.14207	0.362
Asta 180 (34-49)	210	minimi	474.00	-5.8304	0.81977	-21.46476	-0.14301	-16.86788	-1.58
Asta 181 (54-39)	211	massimi	0.00	-24.31947	0.8304	6.30235	-0.30529	6.36468	1.263
Asta 181 (54-39)	211	massimi	237.00	-24.31947	0.8304	-4.14702	-0.71948	8.71469	-0.705
Asta 181	211	massimi	474.00	-24.31947	0.8304	-13.56324	-0.94871	-12.47602	-2.673

(54-39)									
Asta 181 (54-39)	211	minimi	0.00	-24.31947	0.8304	6.30235	-0.30529	6.36468	1.263
Asta 181 (54-39)	211	minimi	237.00	-24.31947	0.8304	-4.14702	-0.71948	8.71469	-0.705
Asta 181 (54-39)	211	minimi	474.00	-24.31947	0.8304	-13.56324	-0.94871	-12.47602	-2.673
Asta 182 (74-44)	212	massimi	0.00	-1.56582	0.42037	25.19736	-0.03295	-20.00885	0.857
Asta 182 (74-44)	212	massimi	237.00	-1.56582	0.42037	0.42173	0.39087	10.11069	-0.139
Asta 182 (74-44)	212	massimi	474.00	-1.56582	0.42037	-23.14335	0.60338	-17.05351	-1.136
Asta 182 (74-44)	212	minimi	0.00	-1.56582	0.42037	25.19736	-0.03295	-20.00885	0.857
Asta 182 (74-44)	212	minimi	237.00	-1.56582	0.42037	0.42173	0.39087	10.11069	-0.139
Asta 182 (74-44)	212	minimi	474.00	-1.56582	0.42037	-23.14335	0.60338	-17.05351	-1.136
Asta 183 (54-49)	213	massimi	0.00	-20.84041	-2.19675	62.07262	-0.30576	-29.69142	-6.888
Asta 183 (54-49)	213	massimi	307.50	-20.84041	-2.19675	-7.86773	-0.30576	53.64859	-0.133
Asta 183 (54-49)	213	massimi	615.00	-20.84041	-2.19675	-77.80809	-0.30576	-78.07798	6.622
Asta 183 (54-49)	213	minimi	0.00	-20.84041	-2.19675	62.07262	-0.30576	-29.69142	-6.888
Asta 183 (54-49)	213	minimi	307.50	-20.84041	-2.19675	-7.86773	-0.30576	53.64859	-0.133
Asta 183 (54-49)	213	minimi	615.00	-20.84041	-2.19675	-77.80809	-0.30576	-78.07798	6.622
Asta 184 (49-79)	214	massimi	0.00	-6.33174	1.40532	20.19322	0.37113	-13.42168	3.663
Asta 184 (49-79)	214	massimi	237.00	-6.33174	1.40532	-0.78696	0.37113	9.57473	0.332
Asta 184 (49-79)	214	massimi	474.00	-6.33174	1.40532	-21.76715	0.37113	-17.15189	-2.998
Asta 184 (49-79)	214	minimi	0.00	-6.33174	1.40532	20.19322	0.37113	-13.42168	3.663
Asta 184 (49-79)	214	minimi	237.00	-6.33174	1.40532	-0.78696	0.37113	9.57473	0.332
Asta 184 (49-79)	214	minimi	474.00	-6.33174	1.40532	-21.76715	0.37113	-17.15189	-2.998
Asta 185 (84-54)	215	massimi	0.00	-54.6137	1.51338	8.08862	0.43125	6.34367	3.663
Asta 185 (84-54)	215	massimi	237.00	-54.6137	1.51338	-4.1975	0.01705	10.7506	0.077
Asta 185 (84-54)	215	massimi	474.00	-54.6137	1.51338	-15.45046	-0.21217	-12.73629	-3.51
Asta 185 (84-54)	215	minimi	0.00	-54.6137	1.51338	8.08862	0.43125	6.34367	3.663
Asta 185 (84-54)	215	minimi	237.00	-54.6137	1.51338	-4.1975	0.01705	10.7506	0.077
Asta 185 (84-54)	215	minimi	474.00	-54.6137	1.51338	-15.45046	-0.21217	-12.73629	-3.51
Asta 186 (104-74)	216	massimi	0.00	-2.02612	0.13071	28.49682	-0.94843	-27.78462	1.162
Asta 186 (104-74)	216	massimi	237.00	-2.02612	0.13071	3.72119	-0.52461	10.15464	0.853
Asta 186 (104-74)	216	massimi	474.00	-2.02612	0.13071	-19.84389	-0.3121	-9.18984	0.543
Asta 186 (104-74)	216	minimi	0.00	-2.02612	0.13071	28.49682	-0.94843	-27.78462	1.162
Asta 186 (104-74)	216	minimi	237.00	-2.02612	0.13071	3.72119	-0.52461	10.15464	0.853
Asta 186 (104-74)	216	minimi	474.00	-2.02612	0.13071	-19.84389	-0.3121	-9.18984	0.543
Asta 187 (84-79)	217	massimi	0.00	-28.067	-2.45051	63.04162	-1.60362	-33.38332	-7.353
Asta 187	217	massimi	307.50	-28.067	-2.45051	-6.89874	-1.60362	52.93635	0.183

(84-79)									
Asta 187 (84-79)	217	massimi	615.00	-28.067	-2.45051	-76.83909	-1.60362	-75.81056	7.718
Asta 187 (84-79)	217	minimi	0.00	-28.067	-2.45051	63.04162	-1.60362	-33.38332	-7.353
Asta 187 (84-79)	217	minimi	307.50	-28.067	-2.45051	-6.89874	-1.60362	52.93635	0.183
Asta 187 (84-79)	217	minimi	615.00	-28.067	-2.45051	-76.83909	-1.60362	-75.81056	7.718
Asta 188 (79-109)	218	massimi	0.00	-6.68431	1.87627	14.124	1.57799	0.76061	4.667
Asta 188 (79-109)	218	massimi	237.00	-6.68431	1.87627	-6.85619	1.57799	9.37297	0.22
Asta 188 (79-109)	218	massimi	474.00	-6.68431	1.87627	-27.83637	1.57799	-31.73771	-4.226
Asta 188 (79-109)	218	minimi	0.00	-6.68431	1.87627	14.124	1.57799	0.76061	4.667
Asta 188 (79-109)	218	minimi	237.00	-6.68431	1.87627	-6.85619	1.57799	9.37297	0.22
Asta 188 (79-109)	218	minimi	474.00	-6.68431	1.87627	-27.83637	1.57799	-31.73771	-4.226
Asta 189 (114-84)	219	massimi	0.00	-61.71872	0.63109	10.59507	1.29919	-4.30923	-0.177
Asta 189 (114-84)	219	massimi	237.00	-61.71872	0.63109	2.09269	1.29919	10.72577	-1.672
Asta 189 (114-84)	219	massimi	474.00	-61.71872	0.63109	-6.40968	1.29919	5.61014	-3.168
Asta 189 (114-84)	219	minimi	0.00	-61.71872	0.63109	10.59507	1.29919	-4.30923	-0.177
Asta 189 (114-84)	219	minimi	237.00	-61.71872	0.63109	2.09269	1.29919	10.72577	-1.672
Asta 189 (114-84)	219	minimi	474.00	-61.71872	0.63109	-6.40968	1.29919	5.61014	-3.168
Asta 190 (119-104)	220	massimi	0.00	15.691	-2.61107	-11.79375	9.40449	24.1163	-4.822
Asta 190 (119-104)	220	massimi	173.00	15.691	-2.61107	-30.77473	9.7498	-12.91897	-0.305
Asta 190 (119-104)	220	massimi	346.00	15.691	-2.61107	-48.27458	9.87185	-81.51015	4.212
Asta 190 (119-104)	220	minimi	0.00	15.691	-2.61107	-11.79375	9.40449	24.1163	-4.822
Asta 190 (119-104)	220	minimi	173.00	15.691	-2.61107	-30.77473	9.7498	-12.91897	-0.305
Asta 190 (119-104)	220	minimi	346.00	15.691	-2.61107	-48.27458	9.87185	-81.51015	4.212
Asta 191 (114-109)	221	massimi	0.00	-26.14894	-3.94382	55.76424	-3.29711	-30.98479	-13.064
Asta 191 (114-109)	221	massimi	307.50	-26.14894	-3.94382	-4.72972	-3.29711	47.48078	-0.936
Asta 191 (114-109)	221	massimi	615.00	-26.14894	-3.94382	-65.22368	-3.29711	-60.07258	11.191
Asta 191 (114-109)	221	minimi	0.00	-26.14894	-3.94382	55.76424	-3.29711	-30.98479	-13.064
Asta 191 (114-109)	221	minimi	307.50	-26.14894	-3.94382	-4.72972	-3.29711	47.48078	-0.936
Asta 191 (114-109)	221	minimi	615.00	-26.14894	-3.94382	-65.22368	-3.29711	-60.07258	11.191
Asta 192 (109-)	222	massimi	0.00	26.05315	3.29253	48.88157	-2.87224	-77.28281	8.15

124)									
Asta 192 (109- 124)	222	massimi	127.00	26.05315	3.29253	28.99119	-2.87224	-27.83361	3.969
Asta 192 (109- 124)	222	massimi	254.00	26.05315	3.29253	9.10081	-2.87224	-3.64519	-0.213
Asta 192 (109- 124)	222	minimi	0.00	26.05315	3.29253	48.88157	-2.87224	-77.28281	8.15
Asta 192 (109- 124)	222	minimi	127.00	26.05315	3.29253	28.99119	-2.87224	-27.83361	3.969
Asta 192 (109- 124)	222	minimi	254.00	26.05315	3.29253	9.10081	-2.87224	-3.64519	-0.213
Asta 193 (144- 114)	223	massimi	0.00	-31.22844	7.29123	18.12626	-0.97725	-22.43954	10.737
Asta 193 (144- 114)	223	massimi	165.00	-31.22844	7.29123	13.48563	-0.97725	3.64026	-1.293
Asta 193 (144- 114)	223	massimi	330.00	-31.22844	7.29123	8.84501	-0.97725	22.06304	-13.324
Asta 193 (144- 114)	223	minimi	0.00	-31.22844	7.29123	18.12626	-0.97725	-22.43954	10.737
Asta 193 (144- 114)	223	minimi	165.00	-31.22844	7.29123	13.48563	-0.97725	3.64026	-1.293
Asta 193 (144- 114)	223	minimi	330.00	-31.22844	7.29123	8.84501	-0.97725	22.06304	-13.324
Asta 194 (124- 119)	224	massimi	0.00	5.93137	-2.00209	37.77159	-4.27782	-32.06254	-8.604
Asta 194 (124- 119)	224	massimi	330.00	5.93137	-2.00209	4.75674	-4.27782	38.1092	-1.997
Asta 194 (124- 119)	224	massimi	660.00	5.93137	-2.00209	-28.25811	-4.27782	-0.66806	4.61
Asta 194 (124- 119)	224	minimi	0.00	5.93137	-2.00209	37.77159	-4.27782	-32.06254	-8.604
Asta 194 (124- 119)	224	minimi	330.00	5.93137	-2.00209	4.75674	-4.27782	38.1092	-1.997
Asta 194 (124- 119)	224	minimi	660.00	5.93137	-2.00209	-28.25811	-4.27782	-0.66806	4.61
Asta 195 (119- 129)	225	massimi	0.00	-14.75719	2.41771	60.63196	4.75117	-39.87381	9.274
Asta 195 (119- 129)	225	massimi	330.00	-14.75719	2.41771	1.42523	4.19529	62.22698	1.295
Asta 195 (119- 129)	225	massimi	660.00	-14.75719	2.41771	-56.714	3.83687	-29.29306	-6.683
Asta 195 (119- 129)	225	minimi	0.00	-14.75719	2.41771	60.63196	4.75117	-39.87381	9.274
Asta 195 (119- 129)	225	minimi	330.00	-14.75719	2.41771	1.42523	4.19529	62.22698	1.295
Asta 195 (119- 129)	225	minimi	660.00	-14.75719	2.41771	-56.714	3.83687	-29.29306	-6.683
Asta 196	226	massimi	0.00	-9.50709	6.03876	28.45662	-5.50381	-5.85809	9.40

(124-139)									
Asta 196 (124-139)	226	massimi	165.00	-9.50709	6.03876	0.18524	-5.50381	17.77145	-0.564
Asta 196 (124-139)	226	massimi	330.00	-9.50709	6.03876	-28.08614	-5.50381	-5.24679	-10.528
Asta 196 (124-139)	226	minimi	0.00	-9.50709	6.03876	28.45662	-5.50381	-5.85809	9.40
Asta 196 (124-139)	226	minimi	165.00	-9.50709	6.03876	0.18524	-5.50381	17.77145	-0.564
Asta 196 (124-139)	226	minimi	330.00	-9.50709	6.03876	-28.08614	-5.50381	-5.24679	-10.528
Asta 197 (129-134)	227	massimi	0.00	-8.93737	-1.4971	13.28124	4.04984	-6.67397	-6.078
Asta 197 (129-134)	227	massimi	330.00	-8.93737	-1.4971	-1.23406	3.49395	12.91033	-1.138
Asta 197 (129-134)	227	massimi	660.00	-8.93737	-1.4971	-14.68186	3.13554	-13.64449	3.803
Asta 197 (129-134)	227	minimi	0.00	-8.93737	-1.4971	13.28124	4.04984	-6.67397	-6.078
Asta 197 (129-134)	227	minimi	330.00	-8.93737	-1.4971	-1.23406	3.49395	12.91033	-1.138
Asta 197 (129-134)	227	minimi	660.00	-8.93737	-1.4971	-14.68186	3.13554	-13.64449	3.803
Asta 198 (139-134)	228	massimi	0.00	-5.16761	2.58994	23.57601	3.65488	-3.91607	1.159
Asta 198 (139-134)	228	massimi	165.00	-5.16761	2.58994	-3.41662	3.65488	12.71542	-3.114
Asta 198 (139-134)	228	massimi	330.00	-5.16761	2.58994	-30.40925	3.65488	-15.19092	-7.387
Asta 198 (139-134)	228	minimi	0.00	-5.16761	2.58994	23.57601	3.65488	-3.91607	1.159
Asta 198 (139-134)	228	minimi	165.00	-5.16761	2.58994	-3.41662	3.65488	12.71542	-3.114
Asta 198 (139-134)	228	minimi	330.00	-5.16761	2.58994	-30.40925	3.65488	-15.19092	-7.387
Asta 199 (134-159)	229	massimi	0.00	-9.17344	-1.0982	31.55812	9.49299	-7.17567	-3.533
Asta 199 (134-159)	229	massimi	244.50	-9.17344	-1.0982	-7.51281	0.8615	21.44004	-0.848
Asta 199 (134-159)	229	massimi	489.00	-9.17344	-1.0982	-42.75708	-3.99032	-40.79458	1.837
Asta 199 (134-159)	229	minimi	0.00	-9.17344	-1.0982	31.55812	9.49299	-7.17567	-3.533
Asta 199 (134-159)	229	minimi	244.50	-9.17344	-1.0982	-7.51281	0.8615	21.44004	-0.848
Asta 199 (134-159)	229	minimi	489.00	-9.17344	-1.0982	-42.75708	-3.99032	-40.79458	1.837

Asta 200 (139-154)	230	massimi	0.00	-5.01373	-2.87522	35.22721	-1.1657	-12.69179	-10.863
Asta 200 (139-154)	230	massimi	244.50	-5.01373	-2.87522	-3.46695	-1.1657	26.13513	-3.833
Asta 200 (139-154)	230	massimi	489.00	-5.01373	-2.87522	-42.16111	-1.1657	-29.64517	3.196
Asta 200 (139-154)	230	minimi	0.00	-5.01373	-2.87522	35.22721	-1.1657	-12.69179	-10.863
Asta 200 (139-154)	230	minimi	244.50	-5.01373	-2.87522	-3.46695	-1.1657	26.13513	-3.833
Asta 200 (139-154)	230	minimi	489.00	-5.01373	-2.87522	-42.16111	-1.1657	-29.64517	3.196
Asta 201 (149-144)	231	massimi	0.00	-6.53105	-0.06997	11.161	-1.23536	-15.11855	2.594
Asta 201 (149-144)	231	massimi	165.00	-6.53105	-0.06997	5.24162	-1.23536	-1.58638	2.709
Asta 201 (149-144)	231	massimi	330.00	-6.53105	-0.06997	-0.67775	-1.23536	2.17881	2.825
Asta 201 (149-144)	231	minimi	0.00	-6.53105	-0.06997	11.161	-1.23536	-15.11855	2.594
Asta 201 (149-144)	231	minimi	165.00	-6.53105	-0.06997	5.24162	-1.23536	-1.58638	2.709
Asta 201 (149-144)	231	minimi	330.00	-6.53105	-0.06997	-0.67775	-1.23536	2.17881	2.825
Asta 202 (154-144)	232	massimi	0.00	1.64307	-1.57595	31.55013	-3.43731	-18.71185	2.414
Asta 202 (154-144)	232	massimi	190.00	1.64307	-1.57595	1.48105	-3.43731	12.66778	5.409
Asta 202 (154-144)	232	massimi	380.00	1.64307	-1.57595	-28.58803	-3.43731	-13.08386	8.403
Asta 202 (154-144)	232	minimi	0.00	1.64307	-1.57595	31.55013	-3.43731	-18.71185	2.414
Asta 202 (154-144)	232	minimi	190.00	1.64307	-1.57595	1.48105	-3.43731	12.66778	5.409
Asta 202 (154-144)	232	minimi	380.00	1.64307	-1.57595	-28.58803	-3.43731	-13.08386	8.403
Asta 203 (159-149)	233	massimi	0.00	-3.22081	-0.26477	29.08692	-3.95909	-30.87443	1.415
Asta 203 (159-149)	233	massimi	190.00	-3.22081	-0.26477	6.86359	-4.30164	3.11975	1.919
Asta 203 (159-149)	233	massimi	380.00	-3.22081	-0.26477	-14.35671	-4.46985	-4.15752	2.422
Asta 203 (159-149)	233	minimi	0.00	-3.22081	-0.26477	29.08692	-3.95909	-30.87443	1.415
Asta 203 (159-149)	233	minimi	190.00	-3.22081	-0.26477	6.86359	-4.30164	3.11975	1.919
Asta 203 (159-149)	233	minimi	380.00	-3.22081	-0.26477	-14.35671	-4.46985	-4.15752	2.422

149)									
Asta 204 (4-3)	234	massimi	0.00	-242.19748	23.47399	9.16885	0.23752	-15.3246	36.46
Asta 204 (4-3)	234	massimi	66.00	-245.16748	23.47399	9.16885	0.23752	-9.27316	20.967
Asta 204 (4-3)	234	massimi	132.00	-248.13748	23.47399	9.16885	0.23752	-3.22172	5.474
Asta 204 (4-3)	234	minimi	0.00	-242.19748	23.47399	9.16885	0.23752	-15.3246	36.46
Asta 204 (4-3)	234	minimi	66.00	-245.16748	23.47399	9.16885	0.23752	-9.27316	20.967
Asta 204 (4-3)	234	minimi	132.00	-248.13748	23.47399	9.16885	0.23752	-3.22172	5.474
Asta 205 (9-8)	235	massimi	0.00	-253.52856	-26.98628	15.01431	1.32072	-25.69683	-40.016
Asta 205 (9-8)	235	massimi	66.00	-256.49856	-26.98628	15.01431	1.32072	-15.78738	-22.205
Asta 205 (9-8)	235	massimi	132.00	-259.46856	-26.98628	15.01431	1.32072	-5.87794	-4.394
Asta 205 (9-8)	235	minimi	0.00	-253.52856	-26.98628	15.01431	1.32072	-25.69683	-40.016
Asta 205 (9-8)	235	minimi	66.00	-256.49856	-26.98628	15.01431	1.32072	-15.78738	-22.205
Asta 205 (9-8)	235	minimi	132.00	-259.46856	-26.98628	15.01431	1.32072	-5.87794	-4.394
Asta 206 (14-13)	236	massimi	0.00	-280.42311	31.98532	3.37273	0.96959	-5.55026	26.312
Asta 206 (14-13)	236	massimi	66.00	-283.39311	31.98532	3.37273	0.96959	-3.32425	5.201
Asta 206 (14-13)	236	massimi	132.00	-286.36311	31.98532	3.37273	0.96959	-1.09825	-15.909
Asta 206 (14-13)	236	minimi	0.00	-280.42311	31.98532	3.37273	0.96959	-5.55026	26.312
Asta 206 (14-13)	236	minimi	66.00	-283.39311	31.98532	3.37273	0.96959	-3.32425	5.201
Asta 206 (14-13)	236	minimi	132.00	-286.36311	31.98532	3.37273	0.96959	-1.09825	-15.909
Asta 207 (19-18)	237	massimi	0.00	-317.69664	-18.16575	11.19935	2.32441	-18.39837	-4.419
Asta 207 (19-18)	237	massimi	66.00	-320.66664	-18.16575	11.19935	2.32441	-11.0068	7.571
Asta 207 (19-18)	237	massimi	132.00	-323.63664	-18.16575	11.19935	2.32441	-3.61523	19.56
Asta 207 (19-18)	237	minimi	0.00	-317.69664	-18.16575	11.19935	2.32441	-18.39837	-4.419
Asta 207 (19-18)	237	minimi	66.00	-320.66664	-18.16575	11.19935	2.32441	-11.0068	7.571
Asta 207 (19-18)	237	minimi	132.00	-323.63664	-18.16575	11.19935	2.32441	-3.61523	19.56
Asta 208 (24-23)	238	massimi	0.00	-55.00288	-12.63627	11.63316	0.44628	-18.25283	-22.352
Asta 208 (24-23)	238	massimi	66.00	-56.03413	-12.63627	11.63316	0.44628	-10.57494	-14.012
Asta 208 (24-23)	238	massimi	132.00	-57.06538	-12.63627	11.63316	0.44628	-2.89706	-5.672
Asta 208 (24-23)	238	minimi	0.00	-55.00288	-12.63627	11.63316	0.44628	-18.25283	-22.352
Asta 208 (24-23)	238	minimi	66.00	-56.03413	-12.63627	11.63316	0.44628	-10.57494	-14.012
Asta 208 (24-23)	238	minimi	132.00	-57.06538	-12.63627	11.63316	0.44628	-2.89706	-5.672
Asta 209 (29-28)	239	massimi	0.00	-288.81267	29.48217	-0.77016	0.85043	1.15389	26.345
Asta 209 (29-28)	239	massimi	66.00	-291.78267	29.48217	-0.77016	0.85043	0.64559	6.887
Asta 209 (29-28)	239	massimi	132.00	-294.75267	29.48217	-0.77016	0.85043	0.13728	-12.571
Asta 209 (29-28)	239	minimi	0.00	-288.81267	29.48217	-0.77016	0.85043	1.15389	26.345
Asta 209	239	minimi	66.00	-291.78267	29.48217	-0.77016	0.85043	0.64559	6.887

(29-28)									
Asta 209 (29-28)	239	minimi	132.00	-294.75267	29.48217	-0.77016	0.85043	0.13728	-12.571
Asta 210 (34-33)	240	massimi	0.00	-358.43399	-8.28483	3.2572	1.21703	-5.79941	12.878
Asta 210 (34-33)	240	massimi	66.00	-361.40399	-8.28483	3.2572	1.21703	-3.64966	18.346
Asta 210 (34-33)	240	massimi	132.00	-364.37399	-8.28483	3.2572	1.21703	-1.49991	23.814
Asta 210 (34-33)	240	minimi	0.00	-358.43399	-8.28483	3.2572	1.21703	-5.79941	12.878
Asta 210 (34-33)	240	minimi	66.00	-361.40399	-8.28483	3.2572	1.21703	-3.64966	18.346
Asta 210 (34-33)	240	minimi	132.00	-364.37399	-8.28483	3.2572	1.21703	-1.49991	23.814
Asta 211 (39-38)	241	massimi	0.00	-82.0635	-17.03478	10.53941	0.32108	-16.71102	-29.883
Asta 211 (39-38)	241	massimi	66.00	-83.09475	-17.03478	10.53941	0.32108	-9.75501	-18.64
Asta 211 (39-38)	241	massimi	132.00	-84.126	-17.03478	10.53941	0.32108	-2.799	-7.397
Asta 211 (39-38)	241	minimi	0.00	-82.0635	-17.03478	10.53941	0.32108	-16.71102	-29.883
Asta 211 (39-38)	241	minimi	66.00	-83.09475	-17.03478	10.53941	0.32108	-9.75501	-18.64
Asta 211 (39-38)	241	minimi	132.00	-84.126	-17.03478	10.53941	0.32108	-2.799	-7.397
Asta 212 (44-43)	242	massimi	0.00	-288.70308	28.89785	-1.10706	-0.45469	1.69626	26.541
Asta 212 (44-43)	242	massimi	66.00	-291.67308	28.89785	-1.10706	-0.45469	0.96559	7.469
Asta 212 (44-43)	242	massimi	132.00	-294.64308	28.89785	-1.10706	-0.45469	0.23493	-11.604
Asta 212 (44-43)	242	minimi	0.00	-288.70308	28.89785	-1.10706	-0.45469	1.69626	26.541
Asta 212 (44-43)	242	minimi	66.00	-291.67308	28.89785	-1.10706	-0.45469	0.96559	7.469
Asta 212 (44-43)	242	minimi	132.00	-294.64308	28.89785	-1.10706	-0.45469	0.23493	-11.604
Asta 213 (49-48)	243	massimi	0.00	-363.24756	-5.01633	0.04167	0.23301	-0.57251	17.906
Asta 213 (49-48)	243	massimi	66.00	-366.21756	-5.01633	0.04167	0.23301	-0.54501	21.217
Asta 213 (49-48)	243	massimi	132.00	-369.18756	-5.01633	0.04167	0.23301	-0.51751	24.527
Asta 213 (49-48)	243	minimi	0.00	-363.24756	-5.01633	0.04167	0.23301	-0.57251	17.906
Asta 213 (49-48)	243	minimi	66.00	-366.21756	-5.01633	0.04167	0.23301	-0.54501	21.217
Asta 213 (49-48)	243	minimi	132.00	-369.18756	-5.01633	0.04167	0.23301	-0.51751	24.527
Asta 214 (54-53)	244	massimi	0.00	-83.82544	-20.15743	28.09749	2.11403	-19.40673	-29.785
Asta 214 (54-53)	244	massimi	66.00	-84.85669	-20.15743	28.09749	2.11403	-0.86238	-16.481
Asta 214 (54-53)	244	massimi	132.00	-85.88794	-20.15743	28.09749	2.11403	17.68196	-3.177
Asta 214 (54-53)	244	minimi	0.00	-83.82544	-20.15743	28.09749	2.11403	-19.40673	-29.785
Asta 214 (54-53)	244	minimi	66.00	-84.85669	-20.15743	28.09749	2.11403	-0.86238	-16.481
Asta 214 (54-53)	244	minimi	132.00	-85.88794	-20.15743	28.09749	2.11403	17.68196	-3.177
Asta 215 (74-73)	245	massimi	0.00	-284.09827	30.05138	-3.26668	-0.55494	5.20611	27.903
Asta 215 (74-73)	245	massimi	66.00	-287.06827	30.05138	-3.26668	-0.55494	3.0501	8.069
Asta 215 (74-73)	245	massimi	132.00	-290.03827	30.05138	-3.26668	-0.55494	0.89409	-11.765
Asta 215	245	minimi	0.00	-284.09827	30.05138	-3.26668	-0.55494	5.20611	27.903

(74-73)									
Asta 215 (74-73)	245	minimi	66.00	-287.06827	30.05138	-3.26668	-0.55494	3.0501	8.069
Asta 215 (74-73)	245	minimi	132.00	-290.03827	30.05138	-3.26668	-0.55494	0.89409	-11.765
Asta 216 (79-78)	246	massimi	0.00	-353.50266	-1.383	-4.95185	-0.73712	7.45951	25.071
Asta 216 (79-78)	246	massimi	66.00	-356.47266	-1.383	-4.95185	-0.73712	4.19129	25.984
Asta 216 (79-78)	246	massimi	132.00	-359.44266	-1.383	-4.95185	-0.73712	0.92307	26.897
Asta 216 (79-78)	246	minimi	0.00	-353.50266	-1.383	-4.95185	-0.73712	7.45951	25.071
Asta 216 (79-78)	246	minimi	66.00	-356.47266	-1.383	-4.95185	-0.73712	4.19129	25.984
Asta 216 (79-78)	246	minimi	132.00	-359.44266	-1.383	-4.95185	-0.73712	0.92307	26.897
Asta 217 (84-83)	247	massimi	0.00	-77.53992	-28.94929	4.65451	0.52156	-2.33715	-34.251
Asta 217 (84-83)	247	massimi	66.00	-78.57117	-28.94929	4.65451	0.52156	0.73483	-15.145
Asta 217 (84-83)	247	massimi	132.00	-79.60242	-28.94929	4.65451	0.52156	3.8068	3.962
Asta 217 (84-83)	247	minimi	0.00	-77.53992	-28.94929	4.65451	0.52156	-2.33715	-34.251
Asta 217 (84-83)	247	minimi	66.00	-78.57117	-28.94929	4.65451	0.52156	0.73483	-15.145
Asta 217 (84-83)	247	minimi	132.00	-79.60242	-28.94929	4.65451	0.52156	3.8068	3.962
Asta 218 (104-103)	248	massimi	0.00	-242.33917	35.60867	-5.40125	0.87218	8.77927	38.345
Asta 218 (104-103)	248	massimi	66.00	-245.30917	35.60867	-5.40125	0.87218	5.21444	14.843
Asta 218 (104-103)	248	massimi	132.00	-248.27917	35.60867	-5.40125	0.87218	1.64961	-8.659
Asta 218 (104-103)	248	minimi	0.00	-242.33917	35.60867	-5.40125	0.87218	8.77927	38.345
Asta 218 (104-103)	248	minimi	66.00	-245.30917	35.60867	-5.40125	0.87218	5.21444	14.843
Asta 218 (104-103)	248	minimi	132.00	-248.27917	35.60867	-5.40125	0.87218	1.64961	-8.659
Asta 219 (109-108)	249	massimi	0.00	-312.57861	-3.74324	-9.91552	-0.92421	15.03157	15.194
Asta 219 (109-108)	249	massimi	66.00	-315.54861	-3.74324	-9.91552	-0.92421	8.48733	17.664
Asta 219 (109-108)	249	massimi	132.00	-318.51861	-3.74324	-9.91552	-0.92421	1.94308	20.135
Asta 219 (109-108)	249	minimi	0.00	-312.57861	-3.74324	-9.91552	-0.92421	15.03157	15.194
Asta 219 (109-108)	249	minimi	66.00	-315.54861	-3.74324	-9.91552	-0.92421	8.48733	17.664
Asta 219 (109-108)	249	minimi	132.00	-318.51861	-3.74324	-9.91552	-0.92421	1.94308	20.135
Asta 220 (114-113)	250	massimi	0.00	-57.5143	-19.4888	-34.4341	-0.08344	23.07517	-28.708
Asta 220 (114-113)	250	massimi	66.00	-58.54555	-19.4888	-34.4341	-0.08344	0.34866	-15.846

Asta 220 (114-113)	250	massimi	132.00	-59.5768	-19.4888	-34.4341	-0.08344	-22.37785	-2.983
Asta 220 (114-113)	250	minimi	0.00	-57.5143	-19.4888	-34.4341	-0.08344	23.07517	-28.708
Asta 220 (114-113)	250	minimi	66.00	-58.54555	-19.4888	-34.4341	-0.08344	0.34866	-15.846
Asta 220 (114-113)	250	minimi	132.00	-59.5768	-19.4888	-34.4341	-0.08344	-22.37785	-2.983
Asta 221 (119-118)	251	massimi	0.00	-77.09632	12.17734	14.14821	0.15901	-26.19151	20.033
Asta 221 (119-118)	251	massimi	66.00	-78.12757	12.17734	14.14821	0.15901	-16.85369	11.996
Asta 221 (119-118)	251	massimi	132.00	-79.15882	12.17734	14.14821	0.15901	-7.51587	3.959
Asta 221 (119-118)	251	minimi	0.00	-77.09632	12.17734	14.14821	0.15901	-26.19151	20.033
Asta 221 (119-118)	251	minimi	66.00	-78.12757	12.17734	14.14821	0.15901	-16.85369	11.996
Asta 221 (119-118)	251	minimi	132.00	-79.15882	12.17734	14.14821	0.15901	-7.51587	3.959
Asta 222 (124-123)	252	massimi	0.00	-57.1274	-14.08302	4.21247	-1.00908	-7.26367	-22.914
Asta 222 (124-123)	252	massimi	66.00	-58.15865	-14.08302	4.21247	-1.00908	-4.48344	-13.619
Asta 222 (124-123)	252	massimi	132.00	-59.1899	-14.08302	4.21247	-1.00908	-1.7032	-4.324
Asta 222 (124-123)	252	minimi	0.00	-57.1274	-14.08302	4.21247	-1.00908	-7.26367	-22.914
Asta 222 (124-123)	252	minimi	66.00	-58.15865	-14.08302	4.21247	-1.00908	-4.48344	-13.619
Asta 222 (124-123)	252	minimi	132.00	-59.1899	-14.08302	4.21247	-1.00908	-1.7032	-4.324
Asta 223 (129-128)	253	massimi	0.00	-69.99525	6.51966	-13.26009	-0.60509	25.24322	10.511
Asta 223 (129-128)	253	massimi	66.00	-71.0265	6.51966	-13.26009	-0.60509	16.49156	6.208
Asta 223 (129-128)	253	massimi	132.00	-72.05775	6.51966	-13.26009	-0.60509	7.73991	1.905
Asta 223 (129-128)	253	minimi	0.00	-69.99525	6.51966	-13.26009	-0.60509	25.24322	10.511
Asta 223 (129-128)	253	minimi	66.00	-71.0265	6.51966	-13.26009	-0.60509	16.49156	6.208
Asta 223 (129-128)	253	minimi	132.00	-72.05775	6.51966	-13.26009	-0.60509	7.73991	1.905
Asta 224 (134-133)	254	massimi	0.00	-76.64923	-2.35387	-5.56651	-0.05143	8.83347	-2.814
Asta 224 (134-133)	254	massimi	66.00	-77.68047	-2.35387	-5.56651	-0.05143	5.15957	-1.26

133)									
Asta 224 (134-133)	254	massimi	132.00	-78.71172	-2.35387	-5.56651	-0.05143	1.48567	0.293
Asta 224 (134-133)	254	minimi	0.00	-76.64923	-2.35387	-5.56651	-0.05143	8.83347	-2.814
Asta 224 (134-133)	254	minimi	66.00	-77.68047	-2.35387	-5.56651	-0.05143	5.15957	-1.26
Asta 224 (134-133)	254	minimi	132.00	-78.71172	-2.35387	-5.56651	-0.05143	1.48567	0.293
Asta 225 (139-138)	255	massimi	0.00	-86.88935	1.56492	-1.46426	-0.82394	2.49642	3.533
Asta 225 (139-138)	255	massimi	66.00	-87.9206	1.56492	-1.46426	-0.82394	1.53001	2.50
Asta 225 (139-138)	255	massimi	132.00	-88.95185	1.56492	-1.46426	-0.82394	0.5636	1.467
Asta 225 (139-138)	255	minimi	0.00	-86.88935	1.56492	-1.46426	-0.82394	2.49642	3.533
Asta 225 (139-138)	255	minimi	66.00	-87.9206	1.56492	-1.46426	-0.82394	1.53001	2.50
Asta 225 (139-138)	255	minimi	132.00	-88.95185	1.56492	-1.46426	-0.82394	0.5636	1.467
Asta 226 (144-143)	256	massimi	0.00	-47.39204	-5.71813	-26.27335	0.49035	21.18104	-12.826
Asta 226 (144-143)	256	massimi	66.00	-48.42329	-5.71813	-26.27335	0.49035	3.84063	-9.052
Asta 226 (144-143)	256	massimi	132.00	-49.45454	-5.71813	-26.27335	0.49035	-13.49977	-5.278
Asta 226 (144-143)	256	minimi	0.00	-47.39204	-5.71813	-26.27335	0.49035	21.18104	-12.826
Asta 226 (144-143)	256	minimi	66.00	-48.42329	-5.71813	-26.27335	0.49035	3.84063	-9.052
Asta 226 (144-143)	256	minimi	132.00	-49.45454	-5.71813	-26.27335	0.49035	-13.49977	-5.278
Asta 227 (149-148)	257	massimi	0.00	-25.51771	-3.15084	-6.79582	-0.1722	10.64869	-5.393
Asta 227 (149-148)	257	massimi	66.00	-26.54896	-3.15084	-6.79582	-0.1722	6.16345	-3.313
Asta 227 (149-148)	257	massimi	132.00	-27.58021	-3.15084	-6.79582	-0.1722	1.67821	-1.234
Asta 227 (149-148)	257	minimi	0.00	-25.51771	-3.15084	-6.79582	-0.1722	10.64869	-5.393
Asta 227 (149-148)	257	minimi	66.00	-26.54896	-3.15084	-6.79582	-0.1722	6.16345	-3.313
Asta 227 (149-148)	257	minimi	132.00	-27.58021	-3.15084	-6.79582	-0.1722	1.67821	-1.234
Asta 228 (154-153)	258	massimi	0.00	-73.71124	-6.6568	-1.29927	0.78209	2.2716	-10.933
Asta 228	258	massimi	66.00	-74.74249	-6.6568	-1.29927	0.78209	1.41409	-6.54

(154-153)									
Asta 228 (154-153)	258	massimi	132.00	-75.77374	-6.6568	-1.29927	0.78209	0.55657	-2.146
Asta 228 (154-153)	258	minimi	0.00	-73.71124	-6.6568	-1.29927	0.78209	2.2716	-10.933
Asta 228 (154-153)	258	minimi	66.00	-74.74249	-6.6568	-1.29927	0.78209	1.41409	-6.54
Asta 228 (154-153)	258	minimi	132.00	-75.77374	-6.6568	-1.29927	0.78209	0.55657	-2.146
Asta 229 (159-158)	259	massimi	0.00	-71.844	-5.95263	-0.83343	0.42145	-0.03122	-9.92
Asta 229 (159-158)	259	massimi	66.00	-72.87525	-5.95263	-0.83343	0.42145	-0.58129	-5.991
Asta 229 (159-158)	259	massimi	132.00	-73.9065	-5.95263	-0.83343	0.42145	-1.13135	-2.063
Asta 229 (159-158)	259	minimi	0.00	-71.844	-5.95263	-0.83343	0.42145	-0.03122	-9.92
Asta 229 (159-158)	259	minimi	66.00	-72.87525	-5.95263	-0.83343	0.42145	-0.58129	-5.991
Asta 229 (159-158)	259	minimi	132.00	-73.9065	-5.95263	-0.83343	0.42145	-1.13135	-2.063
Asta 230 (5-10)	260	massimi	0.00	-64.12013	0.54997	114.85775	0.85501	-126.09068	3.188
Asta 230 (5-10)	260	massimi	630.00	-64.12013	0.54997	-0.99295	0.85501	232.58344	-0.277
Asta 230 (5-10)	260	massimi	1260.00	-64.12013	0.54997	-116.84365	0.85501	-138.60183	-3.742
Asta 230 (5-10)	260	minimi	0.00	-64.12013	0.54997	114.85775	0.85501	-126.09068	3.188
Asta 230 (5-10)	260	minimi	630.00	-64.12013	0.54997	-0.99295	0.85501	232.58344	-0.277
Asta 230 (5-10)	260	minimi	1260.00	-64.12013	0.54997	-116.84365	0.85501	-138.60183	-3.742
Asta 231 (15-5)	261	massimi	0.00	-8.80993	-1.61298	2.89796	-2.29541	1.69788	-3.501
Asta 231 (15-5)	261	massimi	237.00	-8.80993	-1.61298	-2.43454	-2.29541	2.24702	0.322
Asta 231 (15-5)	261	massimi	474.00	-8.80993	-1.61298	-7.76705	-2.29541	-9.84186	4.145
Asta 231 (15-5)	261	minimi	0.00	-8.80993	-1.61298	2.89796	-2.29541	1.69788	-3.501
Asta 231 (15-5)	261	minimi	237.00	-8.80993	-1.61298	-2.43454	-2.29541	2.24702	0.322
Asta 231 (15-5)	261	minimi	474.00	-8.80993	-1.61298	-7.76705	-2.29541	-9.84186	4.145
Asta 232 (5-165)	262	massimi	0.00	0.00	0.00	25.2226	0.00	-16.39469	0.00
Asta 232 (5-165)	262	massimi	65.00	0.00	0.00	12.6113	0.00	-4.09867	0.00
Asta 232 (5-165)	262	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 232 (5-165)	262	minimi	0.00	0.00	0.00	25.2226	0.00	-16.39469	0.00
Asta 232 (5-165)	262	minimi	65.00	0.00	0.00	12.6113	0.00	-4.09867	0.00
Asta 232 (5-165)	262	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 233 (20-10)	263	massimi	0.00	-11.68797	-1.26828	0.01633	1.40218	8.39546	-2.729

Asta 233 (20-10)	263	massimi	237.00	-11.68797	-1.26828	-5.31617	1.40218	2.11515	0.277
Asta 233 (20-10)	263	massimi	474.00	-11.68797	-1.26828	-10.64867	1.40218	-16.80319	3.283
Asta 233 (20-10)	263	minimi	0.00	-11.68797	-1.26828	0.01633	1.40218	8.39546	-2.729
Asta 233 (20-10)	263	minimi	237.00	-11.68797	-1.26828	-5.31617	1.40218	2.11515	0.277
Asta 233 (20-10)	263	minimi	474.00	-11.68797	-1.26828	-10.64867	1.40218	-16.80319	3.283
Asta 234 (10-175)	264	massimi	0.00	0.00	0.00	25.2226	0.00	-16.39469	0.00
Asta 234 (10-175)	264	massimi	65.00	0.00	0.00	12.6113	0.00	-4.09867	0.00
Asta 234 (10-175)	264	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 234 (10-175)	264	minimi	0.00	0.00	0.00	25.2226	0.00	-16.39469	0.00
Asta 234 (10-175)	264	minimi	65.00	0.00	0.00	12.6113	0.00	-4.09867	0.00
Asta 234 (10-175)	264	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 235 (15-20)	265	massimi	0.00	-32.598	0.95612	179.80523	1.13203	-146.67166	5.811
Asta 235 (15-20)	265	massimi	630.00	-32.598	0.95612	-1.05517	1.13203	416.39104	-0.213
Asta 235 (15-20)	265	massimi	1260.00	-32.598	0.95612	-181.91556	1.13203	-159.96677	-6.236
Asta 235 (15-20)	265	minimi	0.00	-32.598	0.95612	179.80523	1.13203	-146.67166	5.811
Asta 235 (15-20)	265	minimi	630.00	-32.598	0.95612	-1.05517	1.13203	416.39104	-0.213
Asta 235 (15-20)	265	minimi	1260.00	-32.598	0.95612	-181.91556	1.13203	-159.96677	-6.236
Asta 236 (30-15)	266	massimi	0.00	-13.28992	-1.42866	5.87034	-0.3738	-5.09091	-3.677
Asta 236 (30-15)	266	massimi	237.00	-13.28992	-1.42866	0.53784	-0.3738	2.50279	-0.291
Asta 236 (30-15)	266	massimi	474.00	-13.28992	-1.42866	-4.79466	-0.3738	-2.54155	3.095
Asta 236 (30-15)	266	minimi	0.00	-13.28992	-1.42866	5.87034	-0.3738	-5.09091	-3.677
Asta 236 (30-15)	266	minimi	237.00	-13.28992	-1.42866	0.53784	-0.3738	2.50279	-0.291
Asta 236 (30-15)	266	minimi	474.00	-13.28992	-1.42866	-4.79466	-0.3738	-2.54155	3.095
Asta 237 (15-170)	267	massimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 237 (15-170)	267	massimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 237 (15-170)	267	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 237 (15-170)	267	minimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 237 (15-170)	267	minimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 237 (15-170)	267	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 238 (35-20)	268	massimi	0.00	-19.53349	-1.20971	4.52735	-0.19582	-1.64349	-3.271
Asta 238 (35-20)	268	massimi	237.00	-19.53349	-1.20971	-0.80515	-0.19582	2.76731	-0.404
Asta 238 (35-20)	268	massimi	474.00	-19.53349	-1.20971	-6.13765	-0.19582	-5.45992	2.463
Asta 238 (35-20)	268	minimi	0.00	-19.53349	-1.20971	4.52735	-0.19582	-1.64349	-3.271
Asta 238 (35-20)	268	minimi	237.00	-19.53349	-1.20971	-0.80515	-0.19582	2.76731	-0.404
Asta 238 (35-20)	268	minimi	474.00	-19.53349	-1.20971	-6.13765	-0.19582	-5.45992	2.463

Asta 239 (20-180)	269	massimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 239 (20-180)	269	massimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 239 (20-180)	269	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 239 (20-180)	269	minimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 239 (20-180)	269	minimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 239 (20-180)	269	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 240 (30-35)	270	massimi	0.00	-27.51041	0.47717	179.0238	0.57637	-136.1869	2.955
Asta 240 (30-35)	270	massimi	630.00	-27.51041	0.47717	-1.8366	0.57637	421.95279	-0.051
Asta 240 (30-35)	270	massimi	1260.00	-27.51041	0.47717	-182.69699	0.57637	-159.32803	-3.057
Asta 240 (30-35)	270	minimi	0.00	-27.51041	0.47717	179.0238	0.57637	-136.1869	2.955
Asta 240 (30-35)	270	minimi	630.00	-27.51041	0.47717	-1.8366	0.57637	421.95279	-0.051
Asta 240 (30-35)	270	minimi	1260.00	-27.51041	0.47717	-182.69699	0.57637	-159.32803	-3.057
Asta 241 (45-30)	271	massimi	0.00	-12.56967	-0.01211	5.79388	-0.06121	-5.2442	-0.647
Asta 241 (45-30)	271	massimi	237.00	-12.56967	-0.01211	0.46138	-0.06121	2.16829	-0.619
Asta 241 (45-30)	271	massimi	474.00	-12.56967	-0.01211	-4.87112	-0.06121	-3.05725	-0.59
Asta 241 (45-30)	271	minimi	0.00	-12.56967	-0.01211	5.79388	-0.06121	-5.2442	-0.647
Asta 241 (45-30)	271	minimi	237.00	-12.56967	-0.01211	0.46138	-0.06121	2.16829	-0.619
Asta 241 (45-30)	271	minimi	474.00	-12.56967	-0.01211	-4.87112	-0.06121	-3.05725	-0.59
Asta 242 (30-190)	272	massimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 242 (30-190)	272	massimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 242 (30-190)	272	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 242 (30-190)	272	minimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 242 (30-190)	272	minimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 242 (30-190)	272	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 243 (50-35)	273	massimi	0.00	-19.42312	0.16188	5.77774	-0.06262	-5.04252	-0.169
Asta 243 (50-35)	273	massimi	237.00	-19.42312	0.16188	0.44524	-0.06262	2.33172	-0.553
Asta 243 (50-35)	273	massimi	474.00	-19.42312	0.16188	-4.88726	-0.06262	-2.93207	-0.936
Asta 243 (50-35)	273	minimi	0.00	-19.42312	0.16188	5.77774	-0.06262	-5.04252	-0.169
Asta 243 (50-35)	273	minimi	237.00	-19.42312	0.16188	0.44524	-0.06262	2.33172	-0.553
Asta 243 (50-35)	273	minimi	474.00	-19.42312	0.16188	-4.88726	-0.06262	-2.93207	-0.936
Asta 244 (35-185)	274	massimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 244 (35-185)	274	massimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 244 (35-185)	274	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 244 (35-185)	274	minimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 244 (35-185)	274	minimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00

Asta 244 (35-185)	274	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 245 (45-50)	275	massimi	0.00	-27.51472	-0.32735	178.81535	0.23306	-134.91769	-2.208
Asta 245 (45-50)	275	massimi	630.00	-27.51472	-0.32735	-2.04505	0.23306	421.90876	-0.146
Asta 245 (45-50)	275	massimi	1260.00	-27.51472	-0.32735	-182.90545	0.23306	-160.6853	1.916
Asta 245 (45-50)	275	minimi	0.00	-27.51472	-0.32735	178.81535	0.23306	-134.91769	-2.208
Asta 245 (45-50)	275	minimi	630.00	-27.51472	-0.32735	-2.04505	0.23306	421.90876	-0.146
Asta 245 (45-50)	275	minimi	1260.00	-27.51472	-0.32735	-182.90545	0.23306	-160.6853	1.916
Asta 246 (75-45)	276	massimi	0.00	-10.84163	0.98426	5.69351	0.12385	-4.8681	2.038
Asta 246 (75-45)	276	massimi	237.00	-10.84163	0.98426	0.36101	0.12385	2.3065	-0.295
Asta 246 (75-45)	276	massimi	474.00	-10.84163	0.98426	-4.97149	0.12385	-3.15692	-2.628
Asta 246 (75-45)	276	minimi	0.00	-10.84163	0.98426	5.69351	0.12385	-4.8681	2.038
Asta 246 (75-45)	276	minimi	237.00	-10.84163	0.98426	0.36101	0.12385	2.3065	-0.295
Asta 246 (75-45)	276	minimi	474.00	-10.84163	0.98426	-4.97149	0.12385	-3.15692	-2.628
Asta 247 (45-195)	277	massimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 247 (45-195)	277	massimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 247 (45-195)	277	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 247 (45-195)	277	minimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 247 (45-195)	277	minimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 247 (45-195)	277	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 248 (80-50)	278	massimi	0.00	-17.09405	1.23433	6.15289	-0.00876	-5.78511	2.619
Asta 248 (80-50)	278	massimi	237.00	-17.09405	1.23433	0.82039	-0.00876	2.47823	-0.306
Asta 248 (80-50)	278	massimi	474.00	-17.09405	1.23433	-4.51211	-0.00876	-1.89645	-3.231
Asta 248 (80-50)	278	minimi	0.00	-17.09405	1.23433	6.15289	-0.00876	-5.78511	2.619
Asta 248 (80-50)	278	minimi	237.00	-17.09405	1.23433	0.82039	-0.00876	2.47823	-0.306
Asta 248 (80-50)	278	minimi	474.00	-17.09405	1.23433	-4.51211	-0.00876	-1.89645	-3.231
Asta 249 (50-200)	279	massimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 249 (50-200)	279	massimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 249 (50-200)	279	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 249 (50-200)	279	minimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 249 (50-200)	279	minimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 249 (50-200)	279	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 250 (75-80)	280	massimi	0.00	-29.83991	-0.74236	179.24398	-0.12769	-141.76214	-4.807
Asta 250 (75-80)	280	massimi	630.00	-29.83991	-0.74236	-1.61642	-0.12769	417.76468	-0.13
Asta 250 (75-80)	280	massimi	1260.00	-29.83991	-0.74236	-182.47682	-0.12769	-162.12901	4.547
Asta 250 (75-80)	280	minimi	0.00	-29.83991	-0.74236	179.24398	-0.12769	-141.76214	-4.807

Asta 250 (75-80)	280	minimi	630.00	-29.83991	-0.74236	-1.61642	-0.12769	417.76468	-0.13
Asta 250 (75-80)	280	minimi	1260.00	-29.83991	-0.74236	-182.47682	-0.12769	-162.12901	4.547
Asta 251 (105-75)	281	massimi	0.00	-6.37229	1.48539	7.13167	1.87491	-8.3285	4.031
Asta 251 (105-75)	281	massimi	237.00	-6.37229	1.48539	1.79917	1.87491	2.25455	0.511
Asta 251 (105-75)	281	massimi	474.00	-6.37229	1.48539	-3.53333	1.87491	0.19956	-3.01
Asta 251 (105-75)	281	minimi	0.00	-6.37229	1.48539	7.13167	1.87491	-8.3285	4.031
Asta 251 (105-75)	281	minimi	237.00	-6.37229	1.48539	1.79917	1.87491	2.25455	0.511
Asta 251 (105-75)	281	minimi	474.00	-6.37229	1.48539	-3.53333	1.87491	0.19956	-3.01
Asta 252 (75-205)	282	massimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 252 (75-205)	282	massimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 252 (75-205)	282	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 252 (75-205)	282	minimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 252 (75-205)	282	minimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 252 (75-205)	282	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 253 (110-80)	283	massimi	0.00	-10.08147	1.15328	9.10849	-1.43596	-13.1229	2.749
Asta 253 (110-80)	283	massimi	237.00	-10.08147	1.15328	3.77599	-1.43596	2.1452	0.016
Asta 253 (110-80)	283	massimi	474.00	-10.08147	1.15328	-1.55652	-1.43596	4.77527	-2.717
Asta 253 (110-80)	283	minimi	0.00	-10.08147	1.15328	9.10849	-1.43596	-13.1229	2.749
Asta 253 (110-80)	283	minimi	237.00	-10.08147	1.15328	3.77599	-1.43596	2.1452	0.016
Asta 253 (110-80)	283	minimi	474.00	-10.08147	1.15328	-1.55652	-1.43596	4.77527	-2.717
Asta 254 (80-210)	284	massimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 254 (80-210)	284	massimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 254 (80-210)	284	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 254 (80-210)	284	minimi	0.00	0.00	0.00	37.5362	0.00	-24.39853	0.00
Asta 254 (80-210)	284	minimi	65.00	0.00	0.00	18.7681	0.00	-6.09963	0.00
Asta 254 (80-210)	284	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 255 (105-110)	285	massimi	0.00	-52.91577	-0.38609	120.1635	0.10201	-121.45072	-1.854
Asta 255 (105-110)	285	massimi	630.00	-52.91577	-0.38609	-1.5462	0.10201	252.19377	0.579
Asta 255 (105-110)	285	massimi	1260.00	-52.91577	-0.38609	-123.2559	0.10201	-140.93282	3.011
Asta 255 (105-110)	285	minimi	0.00	-52.91577	-0.38609	120.1635	0.10201	-121.45072	-1.854
Asta 255 (105-110)	285	minimi	630.00	-52.91577	-0.38609	-1.5462	0.10201	252.19377	0.579
Asta 255 (105-110)	285	minimi	1260.00	-52.91577	-0.38609	-123.2559	0.10201	-140.93282	3.011

Asta 256 (105-215)	286	massimi	0.00	0.00	0.00	25.2226	0.00	-16.39469	0.00
Asta 256 (105-215)	286	massimi	65.00	0.00	0.00	12.6113	0.00	-4.09867	0.00
Asta 256 (105-215)	286	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 256 (105-215)	286	minimi	0.00	0.00	0.00	25.2226	0.00	-16.39469	0.00
Asta 256 (105-215)	286	minimi	65.00	0.00	0.00	12.6113	0.00	-4.09867	0.00
Asta 256 (105-215)	286	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 257 (110-220)	287	massimi	0.00	0.00	0.00	25.2226	0.00	-16.39469	0.00
Asta 257 (110-220)	287	massimi	65.00	0.00	0.00	12.6113	0.00	-4.09867	0.00
Asta 257 (110-220)	287	massimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 257 (110-220)	287	minimi	0.00	0.00	0.00	25.2226	0.00	-16.39469	0.00
Asta 257 (110-220)	287	minimi	65.00	0.00	0.00	12.6113	0.00	-4.09867	0.00
Asta 257 (110-220)	287	minimi	130.00	0.00	0.00	0.00	0.00	0.00	0.00
Asta 258 (5-4)	288	massimi	0.00	-147.84739	62.50716	8.25996	0.95677	-10.69688	111.991
Asta 258 (5-4)	288	massimi	145.00	-154.37239	62.50716	8.25996	0.95677	1.28006	21.356
Asta 258 (5-4)	288	massimi	290.00	-160.89739	62.50716	8.25996	0.95677	13.257	-69.279
Asta 258 (5-4)	288	minimi	0.00	-147.84739	62.50716	8.25996	0.95677	-10.69688	111.991
Asta 258 (5-4)	288	minimi	145.00	-154.37239	62.50716	8.25996	0.95677	1.28006	21.356
Asta 258 (5-4)	288	minimi	290.00	-160.89739	62.50716	8.25996	0.95677	13.257	-69.279
Asta 259 (10-9)	289	massimi	0.00	-152.71492	-65.38841	12.23794	-0.45894	-15.94818	-123.609
Asta 259 (10-9)	289	massimi	145.00	-159.23992	-65.38841	12.23794	-0.45894	1.79683	-28.796
Asta 259 (10-9)	289	massimi	290.00	-165.76492	-65.38841	12.23794	-0.45894	19.54184	66.017
Asta 259 (10-9)	289	minimi	0.00	-152.71492	-65.38841	12.23794	-0.45894	-15.94818	-123.609
Asta 259 (10-9)	289	minimi	145.00	-159.23992	-65.38841	12.23794	-0.45894	1.79683	-28.796
Asta 259 (10-9)	289	minimi	290.00	-165.76492	-65.38841	12.23794	-0.45894	19.54184	66.017
Asta 260 (15-14)	290	massimi	0.00	-225.03405	32.78232	3.52387	0.78521	-5.37146	120.352
Asta 260 (15-14)	290	massimi	145.00	-231.55905	32.78232	3.52387	0.78521	-0.26184	72.817
Asta 260 (15-14)	290	massimi	290.00	-238.08405	32.78232	3.52387	0.78521	4.84778	25.283
Asta 260 (15-14)	290	minimi	0.00	-225.03405	32.78232	3.52387	0.78521	-5.37146	120.352
Asta 260 (15-14)	290	minimi	145.00	-231.55905	32.78232	3.52387	0.78521	-0.26184	72.817
Asta 260 (15-14)	290	minimi	290.00	-238.08405	32.78232	3.52387	0.78521	4.84778	25.283

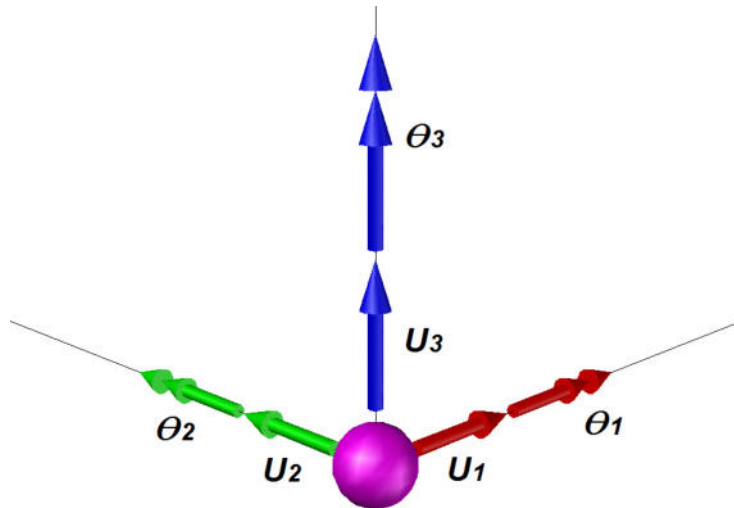
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Asta 261 (20-19)	291	massimi	0.00	-225.60575	-32.53944	8.80165	-1.04443	-12.72335	-133.97
Asta 261 (20-19)	291	massimi	145.00	-232.13075	-32.53944	8.80165	-1.04443	0.03904	-86.788
Asta 261 (20-19)	291	massimi	290.00	-238.65575	-32.53944	8.80165	-1.04443	12.80142	-39.606
Asta 261 (20-19)	291	minimi	0.00	-225.60575	-32.53944	8.80165	-1.04443	-12.72335	-133.97
Asta 261 (20-19)	291	minimi	145.00	-232.13075	-32.53944	8.80165	-1.04443	0.03904	-86.788
Asta 261 (20-19)	291	minimi	290.00	-238.65575	-32.53944	8.80165	-1.04443	12.80142	-39.606
Asta 262 (30-29)	292	massimi	0.00	-227.30146	28.92696	-1.19743	0.13162	1.45729	111.476
Asta 262 (30-29)	292	massimi	145.00	-233.82646	28.92696	-1.19743	0.13162	-0.27898	69.532
Asta 262 (30-29)	292	massimi	290.00	-240.35146	28.92696	-1.19743	0.13162	-2.01526	27.588
Asta 262 (30-29)	292	minimi	0.00	-227.30146	28.92696	-1.19743	0.13162	1.45729	111.476
Asta 262 (30-29)	292	minimi	145.00	-233.82646	28.92696	-1.19743	0.13162	-0.27898	69.532
Asta 262 (30-29)	292	minimi	290.00	-240.35146	28.92696	-1.19743	0.13162	-2.01526	27.588
Asta 263 (35-34)	293	massimi	0.00	-229.6478	-26.13882	0.3668	-0.72261	-0.71221	-135.063
Asta 263 (35-34)	293	massimi	145.00	-236.1728	-26.13882	0.3668	-0.72261	-0.18035	-97.161
Asta 263 (35-34)	293	massimi	290.00	-242.6978	-26.13882	0.3668	-0.72261	0.35151	-59.26
Asta 263 (35-34)	293	minimi	0.00	-229.6478	-26.13882	0.3668	-0.72261	-0.71221	-135.063
Asta 263 (35-34)	293	minimi	145.00	-236.1728	-26.13882	0.3668	-0.72261	-0.18035	-97.161
Asta 263 (35-34)	293	minimi	290.00	-242.6978	-26.13882	0.3668	-0.72261	0.35151	-59.26
Asta 264 (45-44)	294	massimi	0.00	-227.11693	28.51109	-1.40069	0.22796	1.85422	110.334
Asta 264 (45-44)	294	massimi	145.00	-233.64192	28.51109	-1.40069	0.22796	-0.17678	68.993
Asta 264 (45-44)	294	massimi	290.00	-240.16692	28.51109	-1.40069	0.22796	-2.20778	27.652
Asta 264 (45-44)	294	minimi	0.00	-227.11693	28.51109	-1.40069	0.22796	1.85422	110.334
Asta 264 (45-44)	294	minimi	145.00	-233.64192	28.51109	-1.40069	0.22796	-0.17678	68.993
Asta 264 (45-44)	294	minimi	290.00	-240.16692	28.51109	-1.40069	0.22796	-2.20778	27.652
Asta 265 (50-49)	295	massimi	0.00	-230.7315	-26.44228	-2.65641	-1.14608	3.37913	-136.341
Asta 265 (50-49)	295	massimi	145.00	-237.2565	-26.44228	-2.65641	-1.14608	-0.47267	-97.999
Asta 265 (50-49)	295	massimi	290.00	-243.7815	-26.44228	-2.65641	-1.14608	-4.32447	-59.658
Asta 265 (50-49)	295	minimi	0.00	-230.7315	-26.44228	-2.65641	-1.14608	3.37913	-136.341
Asta 265 (50-49)	295	minimi	145.00	-237.2565	-26.44228	-2.65641	-1.14608	-0.47267	-97.999
Asta 265 (50-49)	295	minimi	290.00	-243.7815	-26.44228	-2.65641	-1.14608	-4.32447	-59.658
Asta 266 (75-74)	296	massimi	0.00	-226.00702	30.34104	-3.72698	-0.24089	5.19535	115.613
Asta 266 (75-74)	296	massimi	145.00	-232.53202	30.34104	-3.72698	-0.24089	-0.20877	71.618
Asta 266 (75-74)	296	massimi	290.00	-239.05702	30.34104	-3.72698	-0.24089	-5.6129	27.624
Asta 266 (75-74)	296	minimi	0.00	-226.00702	30.34104	-3.72698	-0.24089	5.19535	115.613
Asta 266	296	minimi	145.00	-232.53202	30.34104	-3.72698	-0.24089	-0.20877	71.618

(75-74)									
Asta 266 (75-74)	296	minimi	290.00	-239.05702	30.34104	-3.72698	-0.24089	-5.6129	27.624
Asta 267 (80-79)	297	massimi	0.00	-227.72242	-29.92096	-7.75493	-0.78938	10.4327	-136.303
Asta 267 (80-79)	297	massimi	145.00	-234.24742	-29.92096	-7.75493	-0.78938	-0.81196	-92.918
Asta 267 (80-79)	297	massimi	290.00	-240.77242	-29.92096	-7.75493	-0.78938	-12.05661	-49.533
Asta 267 (80-79)	297	minimi	0.00	-227.72242	-29.92096	-7.75493	-0.78938	10.4327	-136.303
Asta 267 (80-79)	297	minimi	145.00	-234.24742	-29.92096	-7.75493	-0.78938	-0.81196	-92.918
Asta 267 (80-79)	297	minimi	290.00	-240.77242	-29.92096	-7.75493	-0.78938	-12.05661	-49.533
Asta 268 (105-104)	298	massimi	0.00	-152.51777	51.43038	-5.9862	-2.17728	8.22649	106.931
Asta 268 (105-104)	298	massimi	145.00	-159.04277	51.43038	-5.9862	-2.17728	-0.45351	32.357
Asta 268 (105-104)	298	massimi	290.00	-165.56777	51.43038	-5.9862	-2.17728	-9.1335	-42.217
Asta 268 (105-104)	298	minimi	0.00	-152.51777	51.43038	-5.9862	-2.17728	8.22649	106.931
Asta 268 (105-104)	298	minimi	145.00	-159.04277	51.43038	-5.9862	-2.17728	-0.45351	32.357
Asta 268 (105-104)	298	minimi	290.00	-165.56777	51.43038	-5.9862	-2.17728	-9.1335	-42.217
Asta 269 (110-109)	299	massimi	0.00	-157.58698	-54.06905	-10.46756	0.26161	13.22491	-125.974
Asta 269 (110-109)	299	massimi	145.00	-164.11198	-54.06905	-10.46756	0.26161	-1.95305	-47.574
Asta 269 (110-109)	299	massimi	290.00	-170.63698	-54.06905	-10.46756	0.26161	-17.13101	30.826
Asta 269 (110-109)	299	minimi	0.00	-157.58698	-54.06905	-10.46756	0.26161	13.22491	-125.974
Asta 269 (110-109)	299	minimi	145.00	-164.11198	-54.06905	-10.46756	0.26161	-1.95305	-47.574
Asta 269 (110-109)	299	minimi	290.00	-170.63698	-54.06905	-10.46756	0.26161	-17.13101	30.826

1.4.8 Stato limite ultimo (SLU) - Fondazione A1

1.4.8.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	-0.00158	0.021668	-9.942167	0.000234731027989	0.00014269086505	-0.000003273205973
1	minimi	-0.004595	0.020458	-10.492459	0.000212487825314	0.000137482235087	-0.000003858113745
2	massimi	-0.032513	0.074482	-9.942167	0.000234731027984	0.000142690865045	-0.000003273205971
2	minimi	-0.036701	0.068267	-10.492459	0.00021248782531	0.000137482235082	-0.000003858113743
3	massimi	-0.035142	0.077856	-9.753259	0.000150333996742	0.000284937908563	-0.000002504431897
3	minimi	-0.039824	0.071088	-10.30518	0.000133399536487	0.000271130938366	-0.000002970726488
4	massimi	-0.035435	0.069936	-10.079684	0.000149162453867	-0.000010088984348	-0.000002889079984
4	minimi	-0.040142	0.064372	-10.643972	0.000132270758322	-0.000014006160838	-0.000003390392516
5	massimi	-0.029159	0.069842	-9.63032	0.000302740646559	-0.000008115769934	-0.000002965442804
5	minimi	-0.032771	0.064289	-10.14757	0.00027680983015	-0.000011826390551	-0.000003476591201
6	massimi	-0.029451	0.07795	-9.303896	0.000301569103684	0.000282758138275	-0.000002580794717
6	minimi	-0.03309	0.071171	-9.808778	0.000275681051984	0.000269157723951	-0.000003056925173
7	massimi	0.470726	-0.099338	-10.198813	0.000344768362358	0.000531577415274	0.000041715935439
7	minimi	0.410693	-0.112463	-10.764966	0.000323381454485	0.000437592810995	0.000032082889528
8	massimi	0.870393	-0.147929	-10.323949	-0.000063617280259	0.000057058619135	0.000079837765434
8	minimi	0.732015	-0.167539	-10.894095	-0.000064579884508	0.000050143984194	0.000060373493539
9	massimi	1.059427	-0.309282	-10.40952	0.000442503211628	0.000309938610263	0.000106604156706
9	minimi	0.916443	-0.344868	-10.982469	0.000410668777587	0.000301220599825	0.000080237109121
10	massimi	1.642813	-0.642543	-10.52618	0.000287916095745	0.000860422703329	0.000174415319342
10	minimi	1.455105	-0.713016	-11.103115	0.000262073405211	0.000825427769386	0.000152050363492
11	massimi	0.104481	0.092196	-10.55594	0.000257948875427	0.000131908851671	0.000010242888514
11	minimi	0.088711	0.085695	-11.171237	0.00022975706416	0.000103934842945	0.000009137731988
12	massimi	0.074801	0.150234	-10.55594	0.000257948875423	0.000131908851669	0.00001024288851
12	minimi	0.065325	0.13739	-11.171237	0.000229757064155	0.000103934842944	0.000009137731984
13	massimi	0.083987	0.138508	-10.4076	0.000167090855076	0.000285613556242	0.000008893885724
13	minimi	0.073536	0.126901	-11.001935	0.000144868175235	0.000249131619518	0.000007945411566
14	massimi	0.083344	0.159595	-10.654373	0.000166007837588	-0.000035153942814	0.000008047400457
14	minimi	0.072948	0.145716	-11.315127	0.000144014834075	-0.000051787163431	0.000007171294836
15	massimi	0.065263	0.159786	-10.168489	0.000330594217486	-0.000032758561169	0.000008223083541
15	minimi	0.056833	0.145883	-10.769624	0.000298312468342	-0.00004965357842	0.000007324722184
16	massimi	0.06462	0.138317	-9.921716	0.000329511199997	0.000283218174598	0.000009069568808
16	minimi	0.056245	0.126734	-10.456432	0.000297459127182	0.000246998034507	0.000008098838914
17	massimi	0.473554	0.231885	-10.82897	0.000444938493814	-0.000134418710331	0.000120862814791
17	minimi	0.418733	0.228869	-11.46186	0.000409178672206	-0.000187305416728	0.000110499714802
18	massimi	0.836782	0.346834	-10.960532	-0.000189296528785	0.000384339570239	0.000199024795902
18	minimi	0.769548	0.346018	-11.598074	-0.00019607659473	0.000339121573572	0.000185447230807
19	massimi	1.2225	0.170099	-11.050615	0.000684538821556	0.000106721130923	0.000253904484767
19	minimi	1.092719	0.145209	-11.691423	0.000625678415593	0.000067460452506	0.000238069954811
20	massimi	1.535721	-0.374334	-11.171618	0.000459068236334	-0.000688027896768	0.000222706026788
20	minimi	1.350127	-0.469246	-11.816912	0.00041437096548	-0.000707427369787	0.000204438622371
21	massimi	-0.03444	0.014455	-12.63186	0.00011946293941	0.000241387178429	0.000002211317904
21	minimi	-0.047059	0.013584	-13.490021	0.000106845212729	0.000230871858565	0.000002160722642
22	massimi	-0.086387	0.041334	-12.63186	0.000119462939408	0.000241387178419	0.000002211317903
22	minimi	-0.101371	0.037624	-13.490021	0.000106845212727	0.000230871858556	0.000002160722641
23	massimi	-0.08371	0.038635	-12.14361	0.000015279794109	0.000425812736215	0.000002055116806
23	minimi	-0.098633	0.034921	-12.978135	0.000010105579892	0.000402112233824	0.000002040888572

24	massimi	-0.083871	0.043382	-12.69177	0.000013297919314	0.000036251610416	0.00000184312445
24	minimi	-0.09881	0.039735	-13.551262	0.000008210039622	0.000032516885003	0.000001807995642
25	massimi	-0.087753	0.043123	-12.465817	0.000216691584707	0.000037243801445	0.00000164023019
25	minimi	-0.102583	0.039515	-13.298625	0.00019748787476	0.000033626247357	0.000001569908369
26	massimi	-0.087914	0.038894	-11.917656	0.000214709709913	0.000424703373861	0.00000185222546
26	minimi	-0.10276	0.035142	-12.725498	0.00019559233449	0.000401120042796	0.000001802801299
27	massimi	1.099378	-0.096389	-12.970118	0.000198262556775	0.001160785001944	0.000095113162986
27	minimi	0.953092	-0.10911	-13.853785	0.000176212133683	0.000951638853211	0.000082498262865
28	massimi	2.026692	-0.196159	-13.115273	0.000013070685826	0.000030130529677	0.000183176509675
28	minimi	1.658265	-0.219525	-14.004202	0.000012922402199	-0.000015896094147	0.000156241971384
29	massimi	1.959707	-0.306938	-13.214899	0.000219597393919	-0.000029938577515	0.000245008221181
29	minimi	1.567639	-0.342544	-14.107523	0.000195839799931	-0.000030850649197	0.000208019468854
30	massimi	4.027046	-0.619551	-13.394429	0.000251356185986	0.001948870234073	0.000298686965604
30	minimi	3.572604	-0.688173	-14.295092	0.000225933555905	0.00186141871796	0.000265735454337
31	massimi	0.113845	0.083341	-15.932584	0.000192970060717	0.000294961159251	0.00000956216337
31	minimi	0.094777	0.0773	-17.150686	0.000167415613135	0.000246896252879	0.000008590614937
32	massimi	0.047478	0.12676	-15.932584	0.000192970060714	0.000294961159244	0.000009562163365
32	minimi	0.039225	0.114969	-17.150686	0.000167415613132	0.000246896252873	0.000008590614933
33	massimi	0.056174	0.115891	-15.395146	0.00005633478723	0.000535280931528	0.000008291056481
33	minimi	0.047062	0.105191	-16.548442	0.00004149577796	0.000470142985031	0.000007455750238
34	massimi	0.055631	0.135633	-15.981354	0.000053913053664	0.000024771384796	0.000007576836742
34	minimi	0.04657	0.122937	-17.24877	0.00003946867397	-0.0000013530648	0.000006807964958
35	massimi	0.038694	0.135754	-15.627308	0.000317592069438	0.00002656335594	0.000007688347794
35	minimi	0.031359	0.123037	-16.840683	0.000282839137594	0.000000201600969	0.000006900092027
36	massimi	0.038152	0.115769	-15.041101	0.000315170335872	0.000533488960385	0.000008402567533
36	minimi	0.030867	0.105091	-16.140355	0.000280812033604	0.000468588319262	0.000007547877306
37	massimi	1.064229	0.236955	-16.373142	0.000428986800246	0.000143358892161	0.000174622544243
37	minimi	0.936456	0.23345	-17.628229	0.000377700817403	0.000103190621315	0.000158986807283
38	massimi	2.159202	0.276359	-16.537343	-0.000153965114922	0.000942644230917	0.000328531983542
38	minimi	1.99438	0.271671	-17.798736	-0.000165262957601	0.000875137538753	0.000300734777278
39	massimi	3.549566	0.17617	-16.650343	0.000495450500418	0.001105288616118	0.000436596057944
39	minimi	3.270383	0.151572	-17.916163	0.000438568154864	0.001005475119042	0.000400259947701
40	massimi	3.961147	-0.34385	-16.830434	0.000483273242267	-0.001282252964662	0.000342924029613
40	minimi	3.512506	-0.436321	-18.10441	0.000430497545597	-0.001307482335164	0.000310194898832
41	massimi	0.142647	0.232778	-16.173	-0.000145579679352	0.000196563886656	0.00003106691056
41	minimi	0.121223	0.215505	-17.328845	-0.000150523492963	0.000162865419876	0.000028368357476
42	massimi	0.113162	0.2102	-16.173	-0.00014557967935	0.000196563886657	0.000031066910551
42	minimi	0.096793	0.193668	-17.328845	-0.000150523492961	0.000162865419877	0.000028368357467
43	massimi	0.131426	0.191115	-15.825975	-0.000247674462706	0.000305746910896	0.000028656972267
43	minimi	0.113493	0.17623	-16.945856	-0.000260347306675	0.000264719620568	0.0000261813204
44	massimi	0.131099	0.22789	-16.034403	-0.000248105817766	0.000081388709556	0.000027966932291
44	minimi	0.113192	0.209821	-17.19741	-0.000260867913366	0.000056046347417	0.00002554551614
45	massimi	0.094474	0.228066	-16.22071	-0.000035590438323	0.000080990042544	0.000028338418436
45	minimi	0.079752	0.209971	-17.390044	-0.000038615616415	0.000055660774277	0.000025863301636
46	massimi	0.094148	0.190939	-16.012282	-0.000036111045014	0.000306145577908	0.000029028458412
46	minimi	0.079451	0.176079	-17.13849	-0.000039046971475	0.000265105193708	0.000026499070422
47	massimi	1.06569	1.655211	-16.432457	0.000906126206632	-0.000405574741037	0.000173319142446
47	minimi	0.938155	1.546603	-17.607988	0.00081974839929	-0.000452475752275	0.000158564236301
48	massimi	3.145632	3.442316	-16.51616	-0.00152028503735	0.001462699636615	0.000370916198003
48	minimi	2.888118	3.199104	-17.69744	-0.001651729563202	0.001364634780814	0.000337933544974
49	massimi	3.509693	4.449455	-16.572749	0.000695439650758	-0.001391418542345	0.00050965455616
49	minimi	3.233347	4.132071	-17.758066	0.000628001727878	-0.001503895605863	0.000463873697872
50	massimi	-0.014802	0.004898	-12.966279	0.000025811792007	0.000384257578425	0.000002459434804
50	minimi	-0.025236	0.004747	-13.867757	0.000022592683166	0.000357939607194	0.000002134552827
51	massimi	-0.095339	0.010705	-12.966279	0.000025811792007	0.000384257578411	0.000002459434803
51	minimi	-0.111694	0.009831	-13.867757	0.000022592683166	0.000357939607181	0.000002134552826
52	massimi	-0.092732	0.007924	-12.228548	-0.000073207675782	0.000567026502034	0.000002216314003
52	minimi	-0.10868	0.007414	-13.076455	-0.000077369752402	0.000527677685296	0.000001923187024
53	massimi	-0.092775	0.013318	-13.078406	-0.00007614648757	0.0001625757575704	0.000002155995742
53	minimi	-0.108726	0.012092	-13.9888	-0.000080524644117	0.000151953791625	0.000001867797215
54	massimi	-0.096634	0.013033	-13.030627	0.000130217387917	0.000162815450379	0.000001893662675
54	minimi	-0.113176	0.011849	-13.934214	0.000119641817767	0.000152163592859	0.000001643877378
55	massimi	-0.096676	0.008209	-12.180769	0.000127062496202	0.00056678680736	0.000001953980937
55	minimi	-0.113222	0.007658	-13.021869	0.000116703005978	0.000527467884061	0.000001699267187
56	massimi	1.587242	-0.09076	-13.313616	0.000039728923322	0.001335425014851	0.000050382934673
56	minimi	1.387179	-0.102804	-14.241814	0.000035354002466	0.001107238308063	0.000045719435353
57	massimi	2.967472	-0.216365	-13.463759	0.00008855794538	0.000320691243823	0.000108411195879
57	minimi	2.498639	-0.242452	-14.397885	0.000079889311779	0.00024567073238	0.000098699993968
58	massimi	3.303816	-0.304947	-13.566888	0.000050147380005	0.000281496338068	0.000149154443108

58	minimi	2.771662	-0.340595	-14.505176	0.000045265943302	0.00025205635969	0.000135899109591
59	massimi	6.214242	-0.583881	-13.748543	0.000088646395348	0.002165096132846	0.000163453923088
59	minimi	5.535728	-0.649021	-14.695164	0.000079335096496	0.002052846673114	0.000148902658835
60	massimi	0.115153	0.064888	-17.927059	0.000025080532885	0.000374601232001	0.000004116428809
60	minimi	0.096116	0.060433	-19.44897	0.000016083497344	0.000322834953875	0.000003798531156
61	massimi	0.030868	0.070531	-17.927059	0.000025080532885	0.000374601231991	0.000004116428807
61	minimi	0.023478	0.064052	-19.44897	0.000016083497344	0.000322834953866	0.000003798531154
62	massimi	0.034576	0.06574	-17.082528	-0.000120167600944	0.000646689942878	0.000003601950111
62	minimi	0.02693	0.059633	-18.509059	-0.000123734904884	0.000573279306341	0.000003326755909
63	massimi	0.034274	0.074212	-17.849037	-0.000122818188045	0.000064577561671	0.000003204547444
63	minimi	0.026656	0.067464	-19.398477	-0.000126810511109	0.00003969788756	0.000002965857032
64	massimi	0.027051	0.074291	-17.815024	0.000175095444131	0.000064810466149	0.000003277045527
64	minimi	0.019987	0.067524	-19.345437	0.000153782067304	0.00003984724318	0.000003020998532
65	massimi	0.026749	0.065661	-17.048515	0.000172019837906	0.000646457038401	0.000003674448194
65	minimi	0.019713	0.059573	-18.456019	0.000151131480202	0.000573129950721	0.000003381897409
66	massimi	1.556802	0.24828	-18.43047	0.00011341687573	0.000543207373999	0.000109881382182
66	minimi	1.374625	0.243641	-19.999309	0.000094354804882	0.000523326661182	0.000100456741237
67	massimi	3.26733	0.25447	-18.616142	-0.000023860272126	0.001224790675879	0.000195735104291
67	minimi	2.973661	0.247149	-20.192467	-0.000027135572583	0.001130754278065	0.000177867724128
68	massimi	5.094359	0.185885	-18.744217	0.000196532181733	0.001517940792797	0.000256015377262
68	minimi	4.651773	0.161934	-20.325797	0.00016986899853	0.001388659090536	0.00023222011637
69	massimi	6.15794	-0.291442	-18.927585	0.000214026117211	-0.001173733567694	0.000180711247769
69	minimi	5.484642	-0.378793	-20.517462	0.000187683958306	-0.001180406487163	0.000163616251685
70	massimi	0.165279	0.189274	-20.143045	0.000028264491832	0.000573885621093	0.000010472663166
70	minimi	0.139297	0.175622	-21.737924	0.000017110735269	0.000483019916266	0.000008888141831
71	massimi	0.079197	0.193514	-20.143045	0.000028264491831	0.000573885621087	0.000010472663163
71	minimi	0.066844	0.178188	-21.737924	0.000017110735269	0.00048301991626	0.000008888141828
72	massimi	0.085312	0.186706	-19.656663	-0.000113725556273	0.000707494953381	0.000009794219703
72	minimi	0.072046	0.172364	-21.185029	-0.000113999276755	0.000607169117734	0.00000833585833
73	massimi	0.085012	0.199039	-20.274812	-0.000115245513468	0.000422781669484	0.000009158955169
73	minimi	0.071769	0.182832	-21.919464	-0.000115278572785	0.000344146091546	0.000007750904211
74	massimi	0.072856	0.199162	-20.252915	0.000170912868076	0.000422856529031	0.000009418940476
74	minimi	0.061475	0.182935	-21.883293	0.000148978431022	0.000344191409958	0.000007970337142
75	massimi	0.072556	0.186583	-19.634766	0.000169392910881	0.000707420093833	0.00001005420501
75	minimi	0.061198	0.17226	-21.148858	0.000147699134991	0.000607123799322	0.00000855291261
76	massimi	1.560378	1.665126	-20.482063	0.000682029557819	-0.000729980335602	0.000095296564637
76	minimi	1.379353	1.555772	-22.105827	0.000616309128332	-0.000897781102843	0.000086206734885
77	massimi	4.330203	3.491558	-20.60322	-0.00145238018163	0.002128214469223	0.000236571504285
77	minimi	3.985667	3.244896	-22.23433	-0.001576594447213	0.001941851106784	0.000214837462392
78	massimi	5.039048	4.479488	-20.686107	0.000596599483133	-0.001778181295197	0.000335764547016
78	minimi	4.601526	4.159589	-22.322375	0.000540174211581	-0.001900259085888	0.000305152654046
79	massimi	-0.036959	-0.001961	-12.963312	0.000010023172742	0.000375730059396	-0.000007570752839
79	minimi	-0.049143	-0.002325	-13.864157	0.000008953575196	0.000349188109455	-0.000008366746257
80	massimi	-0.115527	0.000053	-12.963312	0.000010023172742	0.000375730059382	-0.000007570752835
80	minimi	-0.133682	-0.00007	-13.864157	0.000008953575196	0.000349188109442	-0.000008366746253
81	massimi	-0.121678	0.00845	-12.221632	-0.000086348318352	0.000558800167597	-0.000006189947959
81	minimi	-0.14044	0.007769	-13.066387	-0.000092573427142	0.000519258746853	-0.000006834070123
82	massimi	-0.121678	-0.007663	-13.050711	-0.000089215277223	0.000154610614718	-0.000006190248914
82	minimi	-0.14044	-0.008589	-13.958485	-0.000095658304885	0.000143755979043	-0.000006833675291
83	massimi	-0.107839	-0.007958	-13.031777	0.000114954871159	0.000154703692375	-0.000006461583831
83	minimi	-0.125146	-0.008931	-13.937288	0.000106452659199	0.000143839124153	-0.00000714765118
84	massimi	-0.107839	0.008792	-12.202697	0.000111869993416	0.00055870708994	-0.000006461282876
84	minimi	-0.125146	0.008064	-13.04519	0.000103585700327	0.000519175601743	-0.000007148046012
85	massimi	1.561492	-0.083963	-13.310448	0.000027696806698	0.001348943383335	-0.000044637787164
85	minimi	1.36082	-0.095211	-14.237986	0.000024762738324	0.001118835370562	-0.000048256064432
86	massimi	3.000164	-0.213793	-13.460527	0.000096264761619	0.000365557939347	-0.000071533095979
86	minimi	2.524202	-0.239888	-14.393983	0.000086553774422	0.000285845000373	-0.000077204026916
87	massimi	3.402528	-0.30198	-13.563611	0.000037024507138	0.000334791493953	-0.00009041703621
87	minimi	2.856427	-0.337604	-14.501223	0.000033851060762	0.000299874529671	-0.000097529192064
88	massimi	6.452041	-0.550122	-13.74511	0.000061450183274	0.00220141229056	-0.000071924044859
88	minimi	5.744753	-0.611898	-14.691042	0.000055779912029	0.002084895968843	-0.000079206210791
89	massimi	0.08341	0.046113	-18.27215	-0.000060434572136	0.000372520341672	-0.000002875700399
89	minimi	0.066778	0.043367	-19.84199	-0.000062818735657	0.000320624921289	-0.000003208497252
90	massimi	-0.000407	0.031979	-18.27215	-0.000060434572135	0.000372520341661	-0.000002875700398
90	minimi	-0.005363	0.029769	-19.84199	-0.000062818735656	0.000320624921279	-0.00000320849725
91	massimi	-0.003268	0.035059	-17.339483	-0.000196653626301	0.000650561840229	-0.000002312637904
91	minimi	-0.007892	0.032515	-18.800388	-0.000211567697309	0.000576318575274	-0.000002590303288
92	massimi	-0.003405	0.028395	-18.100745	-0.000199286068268	0.000056754610385	-0.000002480371436
92	minimi	-0.008019	0.026555	-19.684865	-0.000214626218701	0.000032462358101	-0.000002770485246

93	massimi	0.002597	0.028394	-18.22855	0.000093687861545	0.000056171258951	-0.000002492967007
93	minimi	-0.002635	0.026541	-19.817712	0.000082937692372	0.000031901146641	-0.000002771440986
94	massimi	0.00246	0.03506	-17.467289	0.000090629340152	0.000651145191663	-0.000002325233475
94	minimi	-0.002763	0.032529	-18.933235	0.000080305250406	0.000576879786733	-0.000002591259028
95	massimi	1.525507	0.262318	-18.784569	-0.000017105341095	0.000614852959364	0.000049348463823
95	minimi	1.343163	0.256248	-20.402632	-0.00001888310677	0.000587719675529	0.000046297028787
96	massimi	3.30572	0.246844	-18.973213	0.00003719283394	0.001247549819926	0.000064446778096
96	minimi	3.003866	0.23751	-20.599229	0.0000256132364626	0.001150677386692	0.000060348463743
97	massimi	5.181511	0.199096	-19.103373	0.000052718043543	0.001579058807539	0.00007504772216
97	minimi	4.725863	0.176118	-20.734974	0.000045118856739	0.001444453779585	0.000070214364882
98	massimi	6.395658	-0.239026	-19.287811	0.000113029126456	-0.001141096160043	-0.000039041573992
98	minimi	5.693629	-0.320989	-20.927897	0.000100167901972	-0.001143269528974	-0.000044723862791
99	massimi	0.139161	0.101326	-22.021053	-0.000442272463379	0.000149636929723	-0.000000218468924
99	minimi	0.115112	0.094956	-23.775502	-0.000479938028037	0.000089615334246	-0.000003730566349
100	massimi	0.116715	0.029335	-22.021053	-0.000442272463373	0.000149636929725	-0.000000218468924
100	minimi	0.10167	0.028615	-23.775502	-0.00047993802803	0.000089615334248	-0.000003730566348
101	massimi	0.114133	0.031547	-21.474194	-0.000579654423392	0.000302876376456	-0.000000320312853
101	minimi	0.101225	0.028729	-23.149077	-0.000628580349266	0.000231905570649	-0.00000356547645
102	massimi	0.114087	0.028311	-21.58888	-0.000579891772904	-0.000008164124798	-0.000000414250507
102	minimi	0.101181	0.026928	-23.340576	-0.000628976668183	-0.000055406781293	-0.00000366177623
103	massimi	0.11857	0.028469	-22.154882	-0.000291170696549	-0.000009435258334	-0.00000080490492
103	minimi	0.101485	0.02711	-23.954781	-0.000316268714476	-0.000056578156194	-0.000003278624968
104	massimi	0.118524	0.031365	-22.040196	-0.000291408046061	0.000304147509992	0.000000013447161
104	minimi	0.10144	0.028571	-23.763282	-0.000316665033393	0.000233076945551	-0.000003182325188
105	massimi	1.521429	1.686516	-22.408876	0.000040247020431	-0.000534070551747	-0.000034131214407
105	minimi	1.340866	1.575526	-24.196343	0.000037187350315	-0.000696247698849	-0.000037880250025
106	massimi	4.235864	3.371653	-22.585192	-0.000314461548112	0.001946070314137	-0.000583449636202
106	minimi	3.896389	3.137629	-24.381987	-0.000379026670378	0.001770495062332	-0.000632914327739
107	massimi	5.11464	4.538346	-22.670806	-0.000105992208841	-0.001516926481345	-0.000003079670193
107	minimi	4.665132	4.213567	-24.473447	-0.000115924019083	-0.001617403407093	-0.000004785399521
108	massimi	0.127525	0.014723	-2.291629	-0.00067721009876	-0.001606202449666	0.000007255461706
108	minimi	0.11576	0.014479	-2.448183	-0.000725379195205	-0.001725608830564	0.000007070492261
109	massimi	1.816568	1.275175	-2.438516	-0.000215887155177	0.001568696274767	-0.000112332027733
109	minimi	1.667382	1.190027	-2.604912	-0.000232934691949	0.001450062047988	-0.000120335692407
110	massimi	2.604242	1.344341	-2.540159	0.000165243849201	-0.001384851223838	-0.000198669234497
110	minimi	2.392015	1.248579	-2.713672	0.000159437750256	-0.001492093233441	-0.000212593911534
111	massimi	0.125841	0.002657	-0.729154	-0.000293830462181	0.00047291238711	0.000007587823776
111	minimi	0.114304	0.002046	-0.767842	-0.000312779550873	0.000443128973499	0.000007317643225
112	massimi	2.833065	0.628284	-0.791776	-0.000107618123079	0.000885360485756	-0.000029945123449
112	minimi	2.626541	0.586823	-0.834311	-0.000116775182644	0.00081581783461	-0.000032389581419
113	massimi	2.589314	0.558369	-0.832489	0.000218182542106	-0.001432237711676	-0.00005688897012
113	minimi	2.378133	0.516374	-0.877804	0.000207859130147	-0.001523315530385	-0.00006129632056
114	massimi	0.126918	0.047133	-21.170905	-0.000223871586275	-0.003651384394859	-0.00001199940389
114	minimi	0.114698	0.044921	-22.815494	-0.000257043995168	-0.003926887734096	-0.000012656720767
115	massimi	1.222246	1.694704	-22.231017	-0.00026624081248	-0.000604258046217	-0.000156136288576
115	minimi	1.067682	1.582945	-23.975858	-0.000300852765812	-0.000773424528702	-0.000170961452841
116	massimi	2.647535	3.355012	-23.200641	-0.000193767662336	0.000580915944415	-0.000271720224789
116	minimi	2.432162	3.121938	-24.936672	-0.000215072779053	0.000522899034904	-0.000295657662549
117	massimi	-0.104648	-0.007548	-12.804144	-0.000025809405435	0.000212735023576	-0.000020853131621
117	minimi	-0.123996	-0.008281	-13.678412	-0.000028940715372	0.000200075764312	-0.000022413066165
118	massimi	-0.149665	-0.013355	-12.804144	-0.000025809405435	0.000212735023565	-0.000020853131611
118	minimi	-0.171861	-0.014793	-13.678412	-0.000028940715372	0.000200075764303	-0.000022413066155
119	massimi	-0.167757	0.008384	-12.207269	-0.000119122156297	0.000400920840858	-0.000017285764998
119	minimi	-0.191235	0.008219	-13.038243	-0.00012923078377	0.000375001720174	-0.000018567157628
120	massimi	-0.1677	-0.034718	-12.68231	-0.000120764849654	0.000004888586629	-0.000017210517999
120	minimi	-0.191172	-0.037737	-13.543341	-0.000130977414158	0.000003006009811	-0.000018483808745
121	massimi	-0.129638	-0.0351	-12.736891	0.000075260881422	0.000004648914117	-0.000017562031944
121	minimi	-0.150265	-0.038176	-13.604544	0.000071076700472	0.000002737259182	-0.000018887455558
122	massimi	-0.129581	0.008823	-12.26185	0.000073514251034	0.000401189591487	-0.000017637278943
122	minimi	-0.150201	0.008601	-13.099446	0.000069434007116	0.000375241392686	-0.000018970804441
123	massimi	1.016986	-0.076399	-13.146515	-0.000048991585162	0.00120994042347	-0.000104902549384
123	minimi	0.866409	-0.086795	-14.046675	-0.000058070247216	0.000994338174017	-0.000119219000633
124	massimi	2.161991	-0.220299	-13.29392	0.00013765045651	0.000201291886189	-0.000151940431498
124	minimi	1.766799	-0.247127	-14.199621	0.000122300506382	0.000138373450634	-0.000177434638259
125	massimi	2.354478	-0.298294	-13.395126	-0.00004345451134	0.000185571856003	-0.000184967029578
125	minimi	1.909654	-0.333825	-14.304717	-0.000051144338259	0.000164270621562	-0.000218309447657
126	massimi	5.063351	-0.521118	-13.575604	-0.000018991767	0.002139877306414	-0.00019259475029
126	minimi	4.484866	-0.580024	-14.49338	-0.000022666784342	0.002027555315408	-0.000218893990182
127	massimi	0.025623	0.028777	-17.862257	-0.000146475806389	0.000225397369472	-0.00000476853287

127	minimi	0.015592	0.027498	-19.380258	-0.000158360282564	0.000187354213169	-0.000005856597723
128	massimi	-0.025092	-0.005459	-17.862257	-0.000146475806386	0.000225397369465	-0.000004768532867
128	minimi	-0.026562	-0.006854	-19.380258	-0.000158360282561	0.000187354213163	-0.00000585659772
129	massimi	-0.030293	-0.000497	-17.008523	-0.000276673300865	0.000503095431563	-0.000003968552839
129	minimi	-0.030756	-0.000749	-18.425468	-0.000300365479851	0.000442872248293	-0.000004883346401
130	massimi	-0.030263	-0.010335	-17.45336	-0.000278211544029	-0.000075126138298	-0.000003937792907
130	minimi	-0.030732	-0.012851	-18.96063	-0.000302216070542	-0.000087136729339	-0.000004844726237
131	massimi	-0.019587	-0.010403	-17.763122	-0.0000103033203726	-0.000076596713866	-0.000004000178877
131	minimi	-0.022039	-0.012915	-19.295526	-0.000003783042498	-0.000088496942511	-0.000004903658806
132	massimi	-0.019557	-0.000429	-17.318286	-0.000004509048612	0.000504566007131	-0.000004030938809
132	minimi	-0.022016	-0.000685	-18.760364	-0.000005321285662	0.000444232461464	-0.00000494227897
133	massimi	0.964363	0.277009	-18.362223	-0.00018911136567	0.000415496061114	0.000005406412956
133	minimi	0.832954	0.269457	-19.926871	-0.000207463962154	0.000405569183275	0.000003825244681
134	massimi	2.33282	0.235516	-18.545324	0.000124028628759	0.001029343203981	-0.000036750230363
134	minimi	2.115981	0.224383	-20.117269	0.000103033203726	0.000950530110937	-0.0000040568227038
135	massimi	3.953631	0.213506	-18.671594	-0.000129921017327	0.001421023995332	-0.000066349575673
135	minimi	3.605211	0.1916	-20.248661	-0.000143088653009	0.00130153055217	-0.000071738111436
136	massimi	5.002935	-0.193364	-18.853392	-0.000035393770757	-0.001140458246516	-0.000151106052128
136	minimi	4.429876	-0.270865	-20.438663	-0.00003745994826	-0.001144487044973	-0.000169555557871
137	massimi	0.102028	-0.006768	-20.537923	-0.000640912074453	-0.000749888248798	0.000007179235762
137	minimi	0.084	-0.008854	-22.121396	-0.000692111749042	-0.000766419456979	0.000004783385547
138	massimi	0.216991	-0.102905	-20.537923	-0.000640912074444	-0.00074988824878	0.00000717923576
138	minimi	0.196483	-0.112671	-22.121396	-0.000692111749032	-0.00076641945696	0.000004783385546
139	massimi	0.219028	-0.106681	-20.415559	-0.000766306539292	-0.000605136646886	0.000006094104022
139	minimi	0.200021	-0.114973	-21.961453	-0.000827500612363	-0.000610730779222	0.000003846698842
140	massimi	0.219203	-0.098447	-19.455883	-0.000764320432659	-0.000871779878313	0.000006431918998
140	minimi	0.200181	-0.109621	-20.980621	-0.000825470722216	-0.000898744216633	0.000004216572867
141	massimi	0.213339	-0.098142	-20.276096	-0.000497965828642	-0.000873477357537	0.000007076930362
141	minimi	0.191482	-0.109284	-21.866357	-0.000537654091505	-0.00090057730008	0.000004928905916
142	massimi	0.213514	-0.106986	-21.235772	-0.000495979722008	-0.000603439167662	0.000006739115387
142	minimi	0.191642	-0.115311	-22.847189	-0.000535624201358	-0.000608897695775	0.000004559031891
143	massimi	0.947396	1.703172	-20.922143	-0.000823291171317	-0.000676855411741	-0.000003156065245
143	minimi	0.818721	1.590619	-22.537405	-0.000897371964626	-0.000853251206791	-0.000005811386635
144	massimi	2.942039	3.338997	-21.129456	-0.000755321235228	0.001629037323382	-0.000106955809208
144	minimi	2.708143	3.106832	-22.753498	-0.000823235148182	0.001480984817281	-0.000113492615191
145	massimi	3.865754	4.665633	-21.208868	-0.000914951467654	-0.001539888268133	0.000047651088674
145	minimi	3.524688	4.332416	-22.838476	-0.000997934895868	-0.00164725500189	0.000039542578837
146	massimi	0.115783	0.014739	-2.186517	0.000605351578906	-0.001564531973157	-0.000000262922277
146	minimi	0.103063	0.01451	-2.334292	0.000566604965021	-0.0016802517365	-0.00000076861769
147	massimi	1.686986	0.176647	-2.32908	-0.000493232133409	0.001521100409474	-0.000104552588675
147	minimi	1.546363	0.160744	-2.48639	-0.000530303942577	0.001406673708097	-0.000112721843671
148	massimi	2.589168	1.342343	-2.427596	-0.000564874312834	-0.00118471925404	-0.000179962039763
148	minimi	2.378228	1.246709	-2.591801	-0.00060544328033	-0.001276456878933	-0.000193672637842
149	massimi	0.114637	0.002941	-0.684169	0.000261051550381	0.000458640126492	-0.000001468453834
149	minimi	0.102188	0.002301	-0.718223	0.000246501491694	0.000430335078529	-0.000002205339777
150	massimi	2.805679	-0.043218	-0.744063	-0.000184160268305	0.000886323517713	-0.000036933927661
150	minimi	2.601616	-0.045846	-0.781635	-0.000198148940236	0.000817386725634	-0.000039883168284
151	massimi	2.571491	0.558628	-0.782803	-0.000400979345085	-0.001425411862773	-0.000062578193352
151	minimi	2.361773	0.516622	-0.822919	-0.000427789717658	-0.001514554196113	-0.00006712717136589
152	massimi	0.113798	-0.026267	-19.691025	-0.001108038215963	-0.002936652237539	0.000017060306352
152	minimi	0.100268	-0.029881	-21.200824	-0.001206314186536	-0.003148750560687	0.000012963475621
153	massimi	0.926892	1.706088	-20.063747	-0.001068571039479	-0.000780929269991	-0.000034529048165
153	minimi	0.802357	1.593257	-21.60255	-0.001162295490798	-0.000962016510691	-0.000041096802775
154	massimi	2.642481	3.330861	-20.679671	-0.000480435980696	0.000963417902695	-0.000357767235467
154	minimi	2.427747	3.099149	-22.231737	-0.000574567448645	0.000872310163103	-0.000382044346547
155	massimi	-0.221081	-0.010399	-11.488569	-0.000159414128821	0.000143833488962	0.000008390362522
155	minimi	-0.242576	-0.010971	-12.186999	-0.000178012950642	0.000123185272205	0.000007238093723
156	massimi	-0.248798	-0.046267	-11.488569	-0.000159414128818	0.000143833488951	0.000008390362518
156	minimi	-0.274939	-0.051024	-12.186999	-0.000178012950639	0.000123185272195	0.00000723809372
157	massimi	-0.240626	-0.053739	-10.879252	-0.000237291675115	0.000311077629993	0.000007189718389
157	minimi	-0.265551	-0.059689	-11.513569	-0.000260819174756	0.000280444618919	0.000006209639047
158	massimi	-0.240428	-0.038067	-11.171732	-0.000238303070118	-0.000037976345405	0.000007477211268
158	minimi	-0.265332	-0.041557	-11.855073	-0.00026200009898	-0.00004654876946	0.000006470329633
159	massimi	-0.253857	-0.038703	-11.508856	-0.000068600280851	-0.000039629417621	0.000006831468202
159	minimi	-0.280888	-0.042259	-12.23153	-0.000080709618608	-0.000048029128423	0.000005885984042
160	massimi	-0.253659	-0.053103	-11.216377	-0.000069611675854	0.000312730702209	0.000006543975322
160	minimi	-0.28067	-0.058986	-11.890025	-0.000081890542832	0.000281924977883	0.000005625293456
161	massimi	0.453411	-0.068416	-11.785794	-0.000074996592434	0.001117451585659	0.000120040026499
161	minimi	0.384332	-0.077971	-12.50376	-0.000083695917394	0.000999242314779	0.000115894430025

162	massimi	1.478478	-0.238948	-11.914266	0.000155687249921	0.000218319229347	0.000160606482241
162	minimi	1.294016	-0.271032	-12.63847	0.000145617061133	0.000188075105151	0.000159564249265
163	massimi	1.850589	-0.293541	-12.002178	-0.00012181061201	0.000466400011315	0.000190226037243
163	minimi	1.614505	-0.328946	-12.730762	-0.000129410870996	0.000405757801637	0.000189089312868
164	massimi	3.364823	-0.504575	-12.123878	-0.000052441023326	0.001270230267857	-0.00001075336292
164	minimi	2.984195	-0.56215	-12.857367	-0.000054136385676	0.001194437669989	-0.000022678440496
165	massimi	-0.008495	0.017251	-15.263822	-0.000272503970171	-0.000012105769529	-0.000003779024717
165	minimi	-0.009655	0.016664	-16.49263	-0.000296216491439	-0.000013872881146	-0.000004747482939
166	massimi	-0.005374	-0.044649	-15.263822	-0.000272503970167	-0.000012105769529	-0.000003779024716
166	minimi	-0.006931	-0.049398	-16.49263	-0.000296216491434	-0.000013872881146	-0.000004747482937
167	massimi	-0.009783	-0.040381	-14.587783	-0.000377566542866	0.000229338928893	-0.000003275224938
167	minimi	-0.010435	-0.044085	-15.758543	-0.000410443888545	0.000211568173708	-0.000004099631376
168	massimi	-0.009572	-0.048214	-14.55904	-0.000377467150293	-0.000234553790807	-0.00000302365299
168	minimi	-0.010244	-0.053933	-15.725604	-0.000410329987373	-0.000255679818113	-0.000003821301821
169	massimi	-0.001105	-0.048232	-15.135324	-0.000147156309989	-0.00023708433492	-0.000003039932143
169	minimi	-0.003527	-0.053947	-16.352034	-0.000159944715906	-0.000258430562985	-0.000003833923641
170	massimi	-0.000893	-0.040364	-15.164067	-0.000147056917417	0.000232089673765	-0.000003291504091
170	minimi	-0.003336	-0.044071	-16.384973	-0.000159830814733	0.000214098717821	-0.000004112253196
171	massimi	0.338121	0.291897	-15.683147	-0.000357526453214	0.000117559549693	-0.000078261717077
171	minimi	0.278792	0.282857	-16.949013	-0.000372507096149	0.000083058899587	-0.000088804166441
172	massimi	1.011215	0.245216	-15.848281	0.000192868074657	0.000559243067599	-0.000135024046664
172	minimi	0.860131	0.23542	-17.122638	0.000173125715038	0.000502595619844	-0.000149127472839
173	massimi	1.873977	0.228863	-15.961936	-0.000258994917641	0.000728619590898	-0.000174878448289
173	minimi	1.651048	0.208096	-17.242255	-0.000269646588074	0.000679598153817	-0.000191482134778
174	massimi	3.26832	-0.167209	-16.087884	-0.000030232495204	-0.000501974477924	-0.00015114097015
174	minimi	2.892948	-0.242621	-17.373433	-0.000032350058194	-0.000516844383749	-0.000169960763364
175	massimi	0.058396	-0.108365	-13.734515	-0.001117164993319	-0.000165624610857	-0.000026112549028
175	minimi	0.049099	-0.118474	-14.759362	-0.001205078787207	-0.000191397182193	-0.000028354804288
176	massimi	0.08324	-0.27594	-13.734515	-0.001117164993301	-0.000165624610852	-0.00002611254902
176	minimi	0.077809	-0.299236	-14.759362	-0.001205078787189	-0.000191397182188	-0.000028354804279
177	massimi	0.065869	-0.259435	-13.016185	-0.001188360713986	-0.000069766155277	-0.00002453369645
177	minimi	0.061807	-0.281316	-13.958322	-0.001281859814408	-0.000101988913706	-0.000026637670797
178	massimi	0.066334	-0.290614	-12.771243	-0.001187853791503	-0.000256434082085	-0.000023627846069
178	minimi	0.062236	-0.315171	-13.746363	-0.001281421151529	-0.000274970802238	-0.000025655345397
179	massimi	0.099594	-0.290494	-14.200945	-0.001012419972842	-0.000259625777617	-0.000023372416751
179	minimi	0.092866	-0.315041	-15.288573	-0.001092000192068	-0.00027792965485	-0.000025382086545
180	massimi	0.100059	-0.259556	-14.445887	-0.001011913050359	-0.000066574459745	-0.000024278267132
180	minimi	0.093294	-0.281445	-15.500533	-0.001091561529189	-0.000099030061093	-0.000026364411945
181	massimi	0.315434	1.718359	-13.95514	-0.002025050014026	-0.001218954409661	-0.000279720495286
181	minimi	0.25893	1.604358	-14.99833	-0.002185958996185	-0.001419786965569	-0.000310861092824
182	massimi	1.680102	3.298204	-14.07213	-0.001770862854455	0.001314525423423	-0.000656200536944
182	minimi	1.534437	3.068287	-15.118547	-0.001889889864528	0.001173291544343	-0.000715480256162
183	massimi	1.788588	4.808085	-14.130091	-0.001855682173933	-0.002002976967936	-0.000685416590394
183	minimi	1.573865	4.465878	-15.179836	-0.002004904992469	-0.002132529301734	-0.000750829652289
184	massimi	-0.175652	0.068544	-19.076007	-0.000133354723579	0.001189640021365	0.000016726036286
184	minimi	-0.192265	0.062315	-20.620804	-0.000168168521913	0.001078396942555	0.000015517613786
185	massimi	-0.337412	0.043319	-19.076007	-0.000133354723577	0.001189640021335	0.000016726036281
185	minimi	-0.370711	0.042312	-20.620804	-0.00016816852191	0.001078396942527	0.000015517613781
186	massimi	-0.327032	0.03294	-18.12275	-0.000254136915876	0.001306017700891	0.000016022388438
186	minimi	-0.359501	0.032681	-19.559069	-0.000298763025744	0.001186026052072	0.000014857591922
187	massimi	-0.327098	0.05341	-19.502838	-0.000256993089879	0.001036996754139	0.000015880181549
187	minimi	-0.359568	0.051662	-21.081521	-0.000301913831137	0.000937893435577	0.000014718690824
188	massimi	-0.345489	0.052834	-19.6735	-0.000005651104486	0.001036551353618	0.000014663217432
188	minimi	-0.379395	0.051138	-21.296736	-0.000029296678472	0.000937540240682	0.000013611040606
189	massimi	-0.345554	0.033516	-18.293412	-0.000008507278489	0.001306463101412	0.000014805424321
189	minimi	-0.379463	0.033205	-19.774284	-0.000032447483864	0.001186379246967	0.000013749941704
190	massimi	0.429788	0.529787	-19.40825	0.001012822865834	0.002170949421476	0.000012501040934
190	minimi	0.362577	0.497886	-20.983544	0.000874381685994	0.001945698813907	0.000012476543114
191	massimi	0.956945	1.77443	-19.514576	-0.000891390615396	-0.0003367299743	0.000085301100681
191	minimi	0.801927	1.697704	-21.089106	-0.000970783795636	-0.000359421462169	0.000080186460451
192	massimi	1.862587	1.186878	-19.58705	0.002534490801159	0.002348191837041	0.000136433236844
192	minimi	1.629654	1.122246	-21.161043	0.002384155589755	0.002153638881667	0.000127710265643
193	massimi	-0.037778	0.015525	-17.827512	-0.000266796759632	-0.000717365954282	-0.000003427262992
193	minimi	-0.039626	0.014954	-19.3133	-0.000292422559726	-0.000768874996163	-0.00000363863964
194	massimi	0.075705	-0.025066	-17.827512	-0.000266796759628	-0.000717365954269	-0.000003427262991
194	minimi	0.069826	-0.028339	-19.3133	-0.000292422559721	-0.000768874996148	-0.000003638639638
195	massimi	0.073268	-0.02289	-17.950078	-0.000379444893446	-0.000591020259262	-0.000003299585754
195	minimi	0.067537	-0.026022	-19.437983	-0.000414837870765	-0.000631688562399	-0.000003508502798
196	massimi	0.073312	-0.027075	-17.032022	-0.000377544923307	-0.000821843102976	-0.000003217299993

196	minimi	0.067576	-0.030467	-18.454008	-0.000412801477032	-0.000882622655935	-0.000003415473279
197	massimi	0.077596	-0.026967	-17.373458	-0.000147915428692	-0.000822549724016	-0.000002988074968
197	minimi	0.071614	-0.03035	-18.828239	-0.000163129285313	-0.00088339714785	-0.00000316694977
198	massimi	0.07764	-0.022999	-18.291513	-0.000146015458553	-0.000590313638223	-0.000003070360729
198	minimi	0.071653	-0.02614	-19.812213	-0.00016109289158	-0.000630914070484	-0.00000325997929
199	massimi	0.352539	1.167964	-18.129314	0.000120060986748	-0.001447636027038	-0.000405567674006
199	minimi	0.292129	1.074456	-19.643051	0.000080177677184	-0.001604367795464	-0.000447150768666
200	massimi	1.547494	2.102601	-18.209962	-0.000617246286843	0.001419651958113	-0.000815369781771
200	minimi	1.382577	1.948513	-19.722872	-0.000675225412182	0.001280229563155	-0.00089691821841
201	massimi	1.851268	2.466194	-18.264407	0.000340809512112	-0.001563837828715	-0.001103103176585
201	minimi	1.627309	2.284824	-19.776735	0.000301316714649	-0.001677144292194	-0.001212712385251
202	massimi	-0.087386	0.024641	-18.698551	-0.000176844413664	-0.000534774886152	-0.000031898740462
202	minimi	-0.09376	0.023369	-20.249654	-0.00019495426834	-0.00058646678541	-0.000034990807763
203	massimi	-0.00579	-0.001886	-18.698551	-0.000176844413661	-0.000534774886144	-0.000031898740452
203	minimi	-0.00717	-0.005874	-20.249654	-0.000194954268337	-0.000586466785401	-0.000034990807752
204	massimi	-0.026121	0.018925	-18.741783	-0.000307138351418	-0.000405202173671	-0.000029258607015
204	minimi	-0.026582	0.01311	-20.32247	-0.000314370621905	-0.00044554909437	-0.000032090679731
205	massimi	-0.026112	-0.022684	-18.0574	-0.000305585072546	-0.00064804525072	-0.000029239323053
205	minimi	-0.026579	-0.02482	-19.571934	-0.000312954250932	-0.000709506326553	-0.000032084489293
206	massimi	0.015037	-0.022693	-18.306894	-0.000042712740295	-0.000648561594277	-0.000029262859805
206	minimi	0.01182	-0.024831	-19.798253	-0.000071011201299	-0.000709974705493	-0.000032103497402
207	massimi	0.01504	0.018934	-18.991277	-0.000041159461423	-0.000404685830114	-0.000029282143766
207	minimi	0.011829	0.013121	-20.548789	-0.000069594830326	-0.00044508071543	-0.00003210968784
208	massimi	-2.336785	0.529647	-19.01247	-0.001074927697376	-0.000187118620027	-0.000252302874209
208	minimi	-2.543637	0.497275	-20.591873	-0.00122138673926	-0.00022447227165	-0.000277410983105
209	massimi	-4.292415	0.020341	-19.116219	0.000475110895338	-0.00134183152422	-0.00049603924793
209	minimi	-4.664139	-0.007421	-20.701845	0.000422727822715	-0.001447784232214	-0.00054448633689
210	massimi	-5.473133	1.235961	-19.186883	-0.002789082367734	-0.000175251000901	-0.000667173297565
210	minimi	-5.951011	1.167473	-20.776879	-0.002951965881247	-0.000214318091951	-0.000732007329973
211	massimi	-0.043491	-0.01742	-14.085286	-0.00057103832917	-0.000959200286146	-0.000017546839781
211	minimi	-0.046833	-0.02119	-15.206415	-0.000623319381667	-0.001044331734477	-0.000019288041232
212	massimi	0.109817	-0.103076	-14.085286	-0.000571038329161	-0.000959200286128	-0.000017546839776
212	minimi	0.100389	-0.114688	-15.206415	-0.000623319381658	-0.001044331734457	-0.000019288041226
213	massimi	0.097893	-0.092221	-14.204303	-0.000653957015014	-0.000854983763273	-0.000016429692318
213	minimi	0.089541	-0.102752	-15.335551	-0.000713167184378	-0.000931273589707	-0.000018061431898
214	massimi	0.098071	-0.113248	-12.976758	-0.000651416537743	-0.001034176062692	-0.000016091315443
214	minimi	0.089701	-0.125864	-13.999059	-0.000710401233332	-0.001125553942821	-0.000017684936307
215	massimi	0.120834	-0.113092	-13.707549	-0.000473252299557	-0.00103568847873	-0.000015761760611
215	minimi	0.110411	-0.125693	-14.796757	-0.000517235946934	-0.001127204827151	-0.000017324431262
216	massimi	0.121013	-0.092377	-14.935094	-0.000470711822286	-0.000853471347235	-0.000016100137486
216	minimi	0.110571	-0.102922	-16.13325	-0.000514469995889	-0.000929622705378	-0.000017700926854
217	massimi	-2.348961	1.182334	-14.300214	-0.001209164768615	-0.001512815798924	0.000064730066664
217	minimi	-2.556793	1.087117	-15.440111	-0.001352730010679	-0.001634727162066	0.000058029780815
218	massimi	-4.359564	1.907545	-14.420118	-0.00000658757014	-0.000815542080035	0.000033522923249
218	minimi	-4.750171	1.748522	-15.571376	-0.000023094584683	-0.000892323791801	0.000032236445759
219	massimi	-5.499553	2.492137	-14.502126	-0.001085660085241	-0.001005092608805	0.000014126231784
219	minimi	-5.979277	2.308298	-15.66136	-0.001168941348805	-0.001065434728291	0.000011611524681
220	massimi	0.13563	-0.001902	-17.265487	-0.000508635407108	-0.000569689261753	-0.000024574085626
220	minimi	0.120956	-0.003608	-18.749355	-0.000555828007896	-0.000626681840532	-0.000027242143492
221	massimi	0.229633	-0.078197	-17.265487	-0.0005086354071	-0.000569689261737	-0.000024574085618
221	minimi	0.206409	-0.086982	-18.749355	-0.000555828007887	-0.000626681840514	-0.000027242143483
222	massimi	0.212603	-0.063163	-17.144274	-0.000613585262191	-0.000449731300849	-0.000023008974393
222	minimi	0.19105	-0.070314	-18.619987	-0.000670210538222	-0.00049584115669	-0.000025508923487
223	massimi	0.212738	-0.092713	-16.415209	-0.000612076419209	-0.000672280527256	-0.000022752269292
223	minimi	0.191171	-0.103073	-17.817985	-0.000668550748297	-0.000738418438394	-0.000025223379602
224	massimi	0.245005	-0.092392	-17.06614	-0.000389688896184	-0.000673627666857	-0.000022074672038
224	minimi	0.220279	-0.102716	-18.529311	-0.000426161125576	-0.000739890569336	-0.000024469545047
225	massimi	0.24514	-0.063484	-17.795205	-0.000388180053201	-0.000448384161248	-0.000022331377139
225	minimi	0.2204	-0.070671	-19.331313	-0.000424501335651	-0.000494369025749	-0.000024755088932
226	massimi	-1.54362	1.177041	-17.570835	-0.000564237428298	-0.000621960403952	-0.000356587407304
226	minimi	-1.672419	1.082525	-19.084208	-0.000620938700503	-0.000679645078644	-0.000394275877079
227	massimi	-2.799253	1.873155	-17.694895	-0.000285460981774	-0.000597944262321	-0.000684235300551
227	minimi	-3.020587	1.735034	-19.212878	-0.000298564779183	-0.00064074292204	-0.000753522003529
228	massimi	-3.340914	2.483114	-17.77982	-0.000647385711023	-0.00016563021433	-0.000914285949001
228	minimi	-3.616011	2.300105	-19.301039	-0.000713837770559	-0.000205297778209	-0.001005758645504
229	massimi	0.164616	-0.152602	-6.127308	-0.002482141464052	-0.000793304922127	0.000043522316885
229	minimi	0.14761	-0.166083	-6.549368	-0.002662305749861	-0.000860442951735	0.000038919383179
230	massimi	0.293682	-0.524923	-6.127308	-0.002482141464014	-0.000793304922106	0.000043522316871
230	minimi	0.266605	-0.565429	-6.549368	-0.00266230574982	-0.000860442951712	0.000038919383167

231	massimi	0.318152	-0.546121	-4.994668	-0.002481670612433	-0.000748188162353	0.000038512909118
231	minimi	0.288459	-0.589209	-5.340301	-0.002662043784047	-0.000811675356411	0.000034401564659
232	massimi	0.319031	-0.500244	-3.979429	-0.002479569515142	-0.000814238173687	0.000040369089726
232	minimi	0.289275	-0.537899	-4.239141	-0.002659764869213	-0.000882980369216	0.000036124774145
233	massimi	0.266386	-0.49983	-7.155971	-0.002409046558053	-0.000820812216734	0.000041333184697
233	minimi	0.242168	-0.537443	-7.646251	-0.002583687556452	-0.000890031584006	0.000036999981559
234	massimi	0.267265	-0.546535	-8.17121	-0.002406945460761	-0.000741614119307	0.000039477004089
234	minimi	0.242983	-0.589665	-8.74741	-0.002581408641618	-0.000804624141621	0.000035276772073
235	massimi	-1.54174	1.733379	-6.412337	-0.002119803208662	-0.001569049630487	-0.000416011335459
235	minimi	-1.670422	1.61822	-6.854625	-0.002286516881814	-0.001720412456239	-0.000456993053036
236	massimi	-2.323116	3.288089	-6.513772	-0.001292674561363	0.000017849771356	-0.001204347482863
236	minimi	-2.523536	3.058835	-6.962093	-0.001396171564882	0.00000679096016	-0.001315033141968
237	massimi	-3.348704	4.858395	-6.561917	-0.002060602804633	-0.001814156752202	-0.001082909082431
237	minimi	-3.624291	4.512774	-7.013018	-0.00222476119428	-0.001961740019453	-0.00119065623942
238	massimi	-0.026211	-0.154875	0.386953	-0.001073717019095	-0.000629767802893	0.000062048973496
238	minimi	-0.028236	-0.168567	0.314765	-0.001167801261333	-0.000695177125231	0.000056527410513
239	massimi	-2.353899	1.735788	0.296501	-0.001872067127808	-0.001316381995763	-0.000146389549745
239	minimi	-2.562235	1.620316	0.226161	-0.00201492946776	-0.00142502631016	-0.000163748312069
240	massimi	-4.098683	3.498849	0.251901	-0.000485848136013	-0.000820655877922	-0.000209087185902
240	minimi	-4.46248	3.250467	0.183784	-0.000527953729519	-0.00089494207246	-0.000226748279172
241	massimi	-5.5255	4.868575	0.222876	-0.001748760198845	-0.001479659836833	-0.000253108930438
241	minimi	-6.007242	4.522372	0.156322	-0.001876349756893	-0.00159272707694	-0.000270982298627
242	massimi	0.159146	-0.033023	-12.370496	-0.000685177639223	-0.001039749159241	0.000000914153444
242	minimi	0.142531	-0.036798	-13.358409	-0.000736694197888	-0.001132787894849	0.000000866893397
243	massimi	0.329064	-0.135799	-12.370496	-0.000685177639213	-0.001039749159215	0.000000914153443
243	minimi	0.298493	-0.147302	-13.358409	-0.000736694197877	-0.001132787894821	0.000000866893397
244	massimi	0.328374	-0.135661	-12.484691	-0.000754818610543	-0.000946100683809	0.000000125709457
244	minimi	0.297941	-0.147074	-13.489568	-0.000812381778722	-0.001031080891584	0.000000013297647
245	massimi	0.328603	-0.135037	-11.154063	-0.000752064796617	-0.001101701395775	0.000000571509539
245	minimi	0.298152	-0.146554	-12.039873	-0.00080938154828	-0.001199962419374	0.00000049685912
246	massimi	0.327343	-0.134574	-12.030925	-0.000597403180374	-0.001103516113977	0.000001577106001
246	minimi	0.296854	-0.146043	-12.982663	-0.000641549089229	-0.001201913581078	0.000001551397528
247	massimi	0.327572	-0.136125	-13.361553	-0.000594649366448	-0.000944285965607	0.000001105597446
247	minimi	0.297065	-0.147585	-14.432359	-0.000638548858786	-0.00102912972988	0.000001093544528
248	massimi	-1.546577	1.915259	-12.581639	-0.000959790225592	-0.001388491437848	0.000269865480799
248	minimi	-1.675709	1.777551	-13.588378	-0.001037754036548	-0.00152005589723	0.000249454416119
249	massimi	-2.438158	3.553927	-12.690127	-0.000769824871015	-0.000172397885478	0.000602792780629
249	minimi	-2.639434	3.292966	-13.702676	-0.000832778893117	-0.000178637025975	0.000554579750625
250	massimi	-3.352055	4.817958	-12.764119	-0.001057616635771	-0.001514196391476	0.000836550297021
250	minimi	-3.628102	4.460856	-13.780747	-0.001145161416922	-0.001651345591238	0.000768816687619
251	massimi	-0.02757	0.018913	-4.87654	-0.000757000163189	-0.002290610199671	0.000036102368905
251	minimi	-0.02973	0.017462	-5.231342	-0.000823160887005	-0.002465108418764	0.000033395830265
252	massimi	0.340036	-0.096088	-4.87654	-0.000757000163178	-0.002290610199625	0.000036102368894
252	minimi	0.316021	-0.104561	-5.231342	-0.000823160886992	-0.002465108418715	0.000033395830255
253	massimi	0.360298	-0.115384	-5.818037	-0.000776313577669	-0.00228880191992	0.00003238696571
253	minimi	0.334759	-0.125421	-6.238712	-0.000844106303518	-0.002398396921662	0.000029957582197
254	massimi	0.36046	-0.076154	-2.886608	-0.000770246812228	-0.002282512088286	0.000032730217593
254	minimi	0.334909	-0.083008	-3.083968	-0.000837577373119	-0.002456672304896	0.00003027301806
255	massimi	0.317357	-0.075663	-3.855386	-0.000720676738574	-0.002284517031087	0.000033846482803
255	minimi	0.295038	-0.08248	-4.137415	-0.000783650748371	-0.002458852476809	0.000031310447339
256	massimi	0.31752	-0.115875	-6.786814	-0.000714609973133	-0.002226875249191	0.00003350323092
256	minimi	0.295187	-0.125949	-7.29216	-0.000777121817972	-0.002396216749749	0.000030995011476
257	massimi	-2.354459	2.018667	-5.209932	-0.001228558531973	-0.001687174019456	0.00008673836726
257	minimi	-2.562716	1.854951	-5.590643	-0.001339633483544	-0.001828403268768	0.000084251202098
258	massimi	-4.01142	3.812474	-5.328247	-0.00060130786462	-0.000639243089222	0.000275751070427
258	minimi	-4.354696	3.514481	-5.719609	-0.000629361463419	-0.000693760339837	0.000256813279876
259	massimi	-5.520074	4.437952	-5.409028	-0.00034825123008	-0.001924488051237	0.000408462117332
259	minimi	-6.001482	4.148991	-5.807869	-0.000391823725528	-0.002104949458032	0.000377973887678
260	massimi	1.642813	-0.840208	-9.46082	0.000287916095745	0.000852171001194	0.000174415319342
260	minimi	1.455105	-0.939755	-9.99261	0.000262073405211	0.000817535060769	0.000152050363492
261	massimi	4.027046	-0.965007	-10.986264	0.000251356185986	0.001936249561023	0.000298686965604
261	minimi	3.572604	-1.076466	-11.773866	0.000225933555905	0.001849439650346	0.000265735454337
262	massimi	1.535721	-0.108563	-10.284877	0.000459068236334	0.000680135188152	0.000222706026788
262	minimi	1.350127	-0.179728	-10.905302	0.00041437096548	-0.000699175667652	0.000204438622371
263	massimi	3.961147	0.059403	-15.175185	0.000483273242267	-0.001270273897048	0.000342924029613
263	minimi	3.512506	0.00948	-16.416989	0.000430497545597	-0.001294861662114	0.000310194898832
264	massimi	6.15794	-0.078741	-17.413411	0.000214026117211	-0.001161754500081	0.000180711247769
264	minimi	5.484642	-0.143869	-18.995239	0.000187683958306	-0.001167785814113	0.000163616251685
265	massimi	6.214242	-0.777454	-11.091522	0.000088646395348	0.002152475459796	0.000163453923088

265	minimi	5.535728	-0.861511	-11.892844	0.000079335096496	0.0020408676055	0.000148902658835
266	massimi	6.452041	-0.456621	-11.046425	0.000061450183274	0.00218879161751	-0.000071924044859
266	minimi	5.744753	-0.50893	-11.841511	0.000055779912029	0.002072916901229	-0.000079206210791
267	massimi	6.395658	-0.28978	-17.816066	0.000113029126456	-0.001129117092429	-0.000039041573992
267	minimi	5.693629	-0.37913	-19.453952	0.000100167901972	-0.001130648855924	-0.000044723862791
268	massimi	5.063351	-0.270745	-10.951461	-0.000018991767	0.002127256633363	-0.00019259475029
268	minimi	4.484866	-0.295461	-11.723845	-0.000022666784342	0.002015576247794	-0.000218893990182
269	massimi	5.002935	-0.389802	-17.382475	-0.000035393770757	-0.001128479178903	-0.000151106052128
269	minimi	4.429876	-0.491287	-18.963135	-0.00003745994826	-0.001131866371922	-0.000169555557871
270	massimi	3.364823	-0.490596	-10.578804	-0.000052441023326	0.001261978565722	-0.00001075336292
270	minimi	2.984195	-0.532668	-11.214113	-0.000054136385676	0.001186544961372	-0.000022678440496
271	massimi	3.26832	-0.363693	-15.423681	-0.000030232495204	-0.000493722775789	-0.00015114097015
271	minimi	2.892948	-0.46357	-16.728911	-0.000032350058194	-0.000508951675132	-0.000169960763364
272	massimi	0.051317	0.016503	-12.68375	0.000120341033841	0.000124371084053	0.000006219409376
272	minimi	0.044759	0.015764	-13.972133	0.000108705767621	0.00010980693733	0.00000585158787
273	massimi	0.032662	0.034555	-12.68375	0.000120341033839	0.000124371084052	0.000006219409374
273	minimi	0.028288	0.03207	-13.972133	0.000108705767619	0.000109806937329	0.000005851587868
274	massimi	0.036279	0.030767	-12.567312	0.000029087495807	0.000212218722673	0.000005708175059
274	minimi	0.031699	0.028505	-13.841294	0.000026359326682	0.000189112121872	0.000005373872968
275	massimi	0.036225	0.038113	-12.707838	0.000028758094412	0.000032732054449	0.000005594739729
275	minimi	0.031649	0.035421	-14.000459	0.000026068498966	0.000027154342613	0.000005268595103
276	massimi	0.028881	0.038164	-12.568721	0.000208255436372	0.000033050782108	0.000005701960708
276	minimi	0.024739	0.035465	-13.846452	0.000188029194714	0.00002744225384	0.00000536145703
277	massimi	0.028828	0.030716	-12.428195	0.000207926034977	0.000211899995014	0.000005815396037
277	minimi	0.024689	0.028461	-13.687287	0.000187738366998	0.000188824210645	0.000005466734895
278	massimi	0.470284	-0.333659	-12.866174	0.00023712087752	0.000020915853071	0.000003669021107
278	minimi	0.413103	-0.364089	-14.177801	0.000219539788451	0.000020055729237	0.0000009358859
279	massimi	0.037197	0.015226	-19.038514	0.000082992494078	0.000393613079618	0.000004057590424
279	minimi	0.03328	0.01413	-21.397998	0.000072577122546	0.000344974522488	0.000003853358165
280	massimi	-0.018466	0.027675	-19.038514	0.000082992494077	0.000393613079612	0.000004057590423
280	minimi	-0.021845	0.025017	-21.397998	0.000072577122544	0.000344974522482	0.000003853358164
281	massimi	-0.016094	0.025154	-18.686695	-0.000052060578326	0.00052773431045	0.000003803311998
281	minimi	-0.019338	0.022628	-20.998781	-0.000057762125647	0.000463800746118	0.000003606060083
282	massimi	-0.016132	0.030014	-19.128179	-0.000052974256049	0.000247492748727	0.000003712459856
282	minimi	-0.019381	0.02724	-21.502511	-0.000058804624379	0.000215631921156	0.000003523934834
283	massimi	-0.020677	0.02998	-19.035298	0.000222259627401	0.000247712557403	0.000003640748174
283	minimi	-0.024164	0.027211	-21.3963	0.000195916023455	0.000215824144337	0.000003463315345
284	massimi	-0.020716	0.025187	-18.593814	0.000221217128669	0.000527514501774	0.000003731600316
284	minimi	-0.024207	0.022657	-20.89257	0.000195002345732	0.000463608522937	0.000003545440593
285	massimi	1.079298	-0.242915	-19.348396	0.000188807328619	0.000168995710254	-0.000018609837225
285	minimi	0.942738	-0.277365	-21.753091	0.000166454175307	0.000160416556879	-0.00002320747949
286	massimi	0.050284	0.008768	-19.45586	0.000016404867168	0.00058446476739	0.000005069987116
286	minimi	0.045169	0.008446	-21.873164	0.000011680312184	0.000512193560016	0.00000479304058
287	massimi	-0.03166	0.011229	-19.45586	0.000016404887168	0.00058446476738	0.000005069987114
287	minimi	-0.037386	0.010198	-21.873164	0.000011680312184	0.000512193560007	0.000004793040578
288	massimi	-0.028697	0.008148	-18.954016	-0.00011464181552	0.00071881552259	0.000004730498464
288	minimi	-0.034238	0.007289	-21.304597	-0.000126308762453	0.000631224419389	0.000004465363998
289	massimi	-0.028713	0.014236	-19.609501	-0.000115998379019	0.000432296892819	0.000004693635374
289	minimi	-0.034255	0.013039	-22.052571	-0.000127856738906	0.000377548733286	0.000004431886847
290	massimi	-0.034398	0.014178	-19.594553	0.00016016641837	0.000432340341767	0.00000457090587
290	minimi	-0.040268	0.01299	-22.031576	0.000139002934846	0.000377579669023	0.000004327953894
291	massimi	-0.034413	0.008206	-18.939068	0.000158618441917	0.000718772073642	0.00000460776896
291	minimi	-0.040286	0.007338	-21.283602	0.000137646371346	0.000631193483652	0.000004361431045
292	massimi	1.568673	-0.046837	-19.77208	0.000047277661116	0.000264159333964	0.000003418304371
292	minimi	1.378064	-0.062377	-22.235432	0.000038861075201	0.000242461095444	0.000002063506247
293	massimi	0.02284	0.000503	-19.502751	0.000002757861776	0.00059843449078	0.000009124694863
293	minimi	0.019779	0.00004	-21.927908	0.000000608799601	0.000523890658011	0.000008465548166
294	massimi	-0.058804	0.000594	-19.502751	0.000002757861776	0.000598434490769	0.00000912469486
294	minimi	-0.066925	0.000453	-21.927908	0.000000608799601	0.000523890658001	0.000008465548164
295	massimi	-0.053574	-0.004488	-18.985883	-0.000125847508708	0.000732925992108	0.000008480681625
295	minimi	-0.061276	-0.005027	-21.341137	-0.000140101025279	0.000643046991101	0.000007862947922
296	massimi	-0.053575	0.00593	-19.656336	-0.000127235052403	0.000445700009972	0.000008479193558
296	minimi	-0.061277	0.005672	-22.106989	-0.000141686001059	0.000388763777315	0.000007860998135
297	massimi	-0.063643	0.005826	-19.655557	0.000147117652559	0.00044570731427	0.000008259494317
297	minimi	-0.072129	0.005581	-22.103459	0.00012843409265	0.000388765389743	0.000007667956714
298	massimi	-0.063644	-0.004397	-18.985103	0.000145532676779	0.00073291868781	0.000008260982384
298	minimi	-0.07213	-0.004923	-21.337607	0.000127046548956	0.000643045378673	0.000007669906501
299	massimi	1.54054	-0.022584	-19.819642	0.000012933312579	0.000286792944568	0.000038974440662
299	minimi	1.349506	-0.031291	-22.290965	0.000009689131642	0.000261890393058	0.000036925512909

300	massimi	-0.041477	-0.010836	-19.402377	-0.000023439632926	0.00047097723396	0.000012557949213
300	minimi	-0.045452	-0.012455	-21.810516	-0.000023727511798	0.000408056191644	0.000011558883418
301	massimi	-0.102686	-0.014395	-19.402377	-0.000023439632926	0.000470977233949	0.000012557949209
301	minimi	-0.116098	-0.015971	-21.810516	-0.000023727511797	0.000408056191635	0.000011558883415
302	massimi	-0.095482	-0.021301	-18.945032	-0.000149284661094	0.000606579607887	0.000011683762579
302	minimi	-0.108257	-0.023476	-21.289681	-0.000165270828163	0.000528264260405	0.000010747890407
303	massimi	-0.09546	-0.007393	-19.467245	-0.00015036541294	0.000321017351985	0.000011736191015
303	minimi	-0.108233	-0.008359	-21.892418	-0.000166518228706	0.000275408731692	0.000010795145379
304	massimi	-0.10923	-0.007553	-19.497611	0.000120353508471	0.000320955271254	0.000011355065837
304	minimi	-0.123194	-0.00854	-21.922415	0.000103633710807	0.000275345888504	0.000010458050725
305	massimi	-0.109208	-0.021141	-18.975397	0.000119106107928	0.000606641688618	0.000011302637401
305	minimi	-0.123169	-0.023296	-21.319678	0.000102552958961	0.000528327103593	0.000010410795754
306	massimi	0.990431	0.057145	-19.717763	-0.000057623260219	0.000302669924919	0.000066200452826
306	minimi	0.849667	0.055594	-22.171787	-0.000062273082461	0.000276090394551	0.000060600439814
307	massimi	-0.035178	0.076008	-9.910374	0.000121510222742	0.000243497616336	-0.000002510286749
307	minimi	-0.039862	0.06953	-10.470152	0.000106289070432	0.000232140546837	-0.000002973137639
308	massimi	-0.03528	0.074107	-10.021092	0.000106218027464	0.000136034774387	-0.000002781362316
308	minimi	-0.039974	0.067923	-10.585794	0.000091903329761	0.000131069111016	-0.000003278070566
309	massimi	-0.035391	0.072052	-10.073628	0.000120075002569	0.000029027217605	-0.000002769887275
309	minimi	-0.040095	0.066176	-10.639591	0.000104906239954	0.000027564708246	-0.000003256371913
310	massimi	-0.03387	0.069915	-10.000694	0.000169607069694	-0.000028176849713	-0.00000285654549
310	minimi	-0.038305	0.064353	-10.555304	0.00015151771923	-0.000033216431636	-0.00000352243634
311	massimi	-0.032333	0.069896	-9.901503	0.000226178990636	-0.000027297705901	-0.000002790972723
311	minimi	-0.036498	0.064337	-10.445181	0.000204746182317	-0.000032238756383	-0.00000328848893
312	massimi	-0.03077	0.069851	-9.776174	0.000281811796362	-0.000026296110279	-0.000002895879291
312	minimi	-0.034661	0.064297	-10.307282	0.000257124521108	-0.000031138816601	-0.000003396643801
313	massimi	-0.029192	0.072005	-9.622975	0.000331329369851	0.000030885604803	-0.000002885964247
313	minimi	-0.032807	0.066134	-10.141764	0.000303722880171	0.000029617631217	-0.000003387400106
314	massimi	-0.029301	0.074107	-9.570113	0.000344070143127	0.000136034774387	-0.000002768967986
314	minimi	-0.032926	0.067923	-10.087606	0.000315715360249	0.000131069111016	-0.000003264079792
315	massimi	-0.029406	0.076056	-9.459722	0.000329894149678	0.000241444693365	-0.000002626363721
315	minimi	-0.03304	0.069572	-9.972325	0.000302340049692	0.000230282159638	-0.000003104165832
316	massimi	-0.030882	0.077929	-9.44915	0.000280685670721	0.000301207063791	-0.000002536856137
316	minimi	-0.034783	0.071152	-9.967868	0.000256039502315	0.000286506084033	-0.000003004935572
317	massimi	-0.032333	0.077902	-9.574457	0.000226178990636	0.000301978295573	-0.000002763169608
317	minimi	-0.036498	0.071129	-10.105745	0.000204746182317	0.000287190970449	-0.00000325815465
318	massimi	-0.033758	0.077866	-9.67367	0.000170733195335	0.000303284678826	-0.000002497522335
318	minimi	-0.038183	0.071096	-10.215891	0.000152602738022	0.000288386823467	-0.000002960535405
319	massimi	0.083892	0.144056	-10.5501	0.000136142241077	0.000241144470685	0.000008595411599
319	minimi	0.07345	0.131858	-11.166373	0.000115818326804	0.000207392608267	0.000007676917161
320	massimi	0.083645	0.149477	-10.642937	0.000119828384076	0.000125755719308	0.000008698626586
320	minimi	0.073224	0.136698	-11.277787	0.000100637302019	0.000099086609961	0.000007759820374
321	massimi	0.083423	0.154589	-10.673517	0.000134815469889	0.000009435855071	0.000008024113919
321	minimi	0.073021	0.141255	-11.323009	0.000114772924973	-0.000009953039407	0.000007154461415
322	massimi	0.078909	0.159614	-10.568492	0.000187931239015	-0.000055697497602	0.000007998537875
322	minimi	0.068995	0.145733	-11.216716	0.000164599011759	-0.00007100942891	0.000007127535738
323	massimi	0.074387	0.159685	-10.461088	0.000248550963311	-0.000054597099501	0.000008659743649
323	minimi	0.064964	0.145795	-11.095335	0.000221386270942	-0.000070008388619	0.000007724715247
324	massimi	0.069804	0.159743	-10.325725	0.000308138678565	-0.000053414379581	0.000008089030586
324	minimi	0.060878	0.145845	-10.94416	0.000277254311666	-0.000068975837979	0.000007206564729
325	massimi	0.065161	0.154685	-10.186239	0.00036123852703	0.000011691837327	0.000008291165923
325	minimi	0.05674	0.141339	-10.775941	0.000327066217795	-0.000007943618513	0.000007387682963
326	massimi	0.064934	0.149477	-10.155305	0.000374998999226	0.000125755719308	0.000008670112295
326	minimi	0.056533	0.136698	-10.730405	0.000340109286486	0.000099086609961	0.000007734918306
327	massimi	0.064692	0.14396	-10.062821	0.000359911755843	0.000238888488429	0.000008862463603
327	minimi	0.056311	0.131774	-10.619305	0.000326020815965	0.000205383187373	0.000007910138709
328	massimi	0.069558	0.138337	-10.078499	0.000307097645036	0.000303075736552	0.000008879123194
328	minimi	0.060654	0.126751	-10.630393	0.000276434050895	0.000265691324451	0.000007929109975
329	massimi	0.074387	0.138431	-10.213845	0.000248550963311	0.000303954588871	0.000008720925764
329	minimi	0.064964	0.126834	-10.781548	0.000221386270942	0.00026648444892	0.000007780666721
330	massimi	0.079155	0.138465	-10.321266	0.000188972272544	0.000305358854573	0.000008788630483
330	minimi	0.06922	0.126863	-10.902949	0.000165419275259	0.000267724915382	0.000007850080985
331	massimi	-0.083718	0.039897	-12.378785	-0.000022560600945	0.00037112335322	0.000002048548252
331	minimi	-0.09864	0.036193	-13.226915	-0.000025088628931	0.000351236325419	0.000002040643135
332	massimi	-0.083776	0.041126	-12.55374	-0.000042581977216	0.000230127207833	0.000001858384936
332	minimi	-0.098704	0.037435	-13.410952	-0.000043736862193	0.00022010239535	0.00000181263203
333	massimi	-0.083835	0.042269	-12.652935	-0.00002498853316	0.000087427162161	0.000001905473767
333	minimi	-0.09877	0.038599	-13.513551	-0.000027410795446	0.000087338790382	0.00000188346277
334	massimi	-0.084894	0.043337	-12.679036	0.000040521489362	0.000012425510767	0.000001775161298

334	minimi	-0.099816	0.039696	-13.535116	0.000033542764661	0.000006928392212	0.000001732787013
335	massimi	-0.085909	0.043252	-12.639667	0.000115110504503	0.000012759344166	0.000001868476719
335	minimi	-0.10081	0.039624	-13.49036	0.000102952483855	0.000007315455781	0.000001824795046
336	massimi	-0.086852	0.043162	-12.566141	0.000189221570626	0.000013371202619	0.000001670652289
336	minimi	-0.101721	0.039548	-13.408889	0.000171934735211	0.000007985764138	0.000001610150399
337	massimi	-0.087762	0.042139	-12.426334	0.0002547424216823	0.00008847196742	0.000001597059919
337	minimi	-0.102592	0.038488	-13.260189	0.000232881698084	0.000088273242863	0.000001521553013
338	massimi	-0.087815	0.041126	-12.326974	0.000271749586209	0.000230127207833	0.000001891316387
338	minimi	-0.102651	0.037435	-13.157406	0.000248699690449	0.00022010239535	0.000001851275604
339	massimi	-0.087879	0.040027	-12.152184	0.000252296284608	0.000370078547962	0.000001740134404
339	minimi	-0.102721	0.036304	-12.973553	0.000230559531569	0.000350301872938	0.000001678733378
340	massimi	-0.086913	0.038848	-12.016974	0.000187316527223	0.000448883091126	0.000001868521892
340	minimi	-0.101788	0.035103	-12.83471	0.000170112679401	0.000423595509624	0.000001827528198
341	massimi	-0.085909	0.038769	-12.090465	0.000115110504503	0.000448997330974	0.000001883799941
341	minimi	-0.10081	0.035036	-12.916143	0.000102952483855	0.000423675523051	0.000001841629002
342	massimi	-0.084833	0.038674	-12.129869	0.000042426532765	0.000449940463052	0.0000019730309
342	minimi	-0.099748	0.034954	-12.960937	0.000035364820472	0.000424541201475	0.000001950164811
343	massimi	0.056096	0.12106	-15.668193	0.000007193542923	0.000464322819178	0.000008038424701
343	minimi	0.046992	0.109839	-16.860488	-0.000003911867501	0.000404584767709	0.000007229884231
344	massimi	0.055887	0.126121	-15.863592	-0.000018776113078	0.000281202150421	0.000008116270268
344	minimi	0.046803	0.11439	-17.088461	-0.0000274758599	0.000235379320507	0.0000072909759
345	massimi	0.0557	0.130921	-15.961371	0.000004226752123	0.000095999421776	0.000007556393772
345	minimi	0.046633	0.118703	-17.21074	-0.000006395209828	0.000064431092031	0.000006792690293
346	massimi	0.051457	0.135643	-15.949075	0.000089183317862	-0.000008356999806	0.00000751596161
346	minimi	0.042819	0.122944	-17.207677	0.00007205763404	-0.00003188124526	0.000006751526478
347	massimi	0.047216	0.135688	-15.882621	0.000185939537057	-0.000007665744239	0.000008086978552
347	minimi	0.039008	0.122982	-17.129539	0.000161316120682	-0.000031261211536	0.000007265092302
348	massimi	0.042935	0.135725	-15.77218	0.000281923716261	-0.000006649012429	0.000007573399909
348	minimi	0.035165	0.123011	-17.00378	0.000249904806278	-0.00003039944154	0.000006798980269
349	massimi	0.03861	0.130982	-15.606309	0.000366868371847	0.000097687109044	0.000007725899277
349	minimi	0.031283	0.118753	-16.801482	0.000328347317218	0.000065895283926	0.00000693273063
350	massimi	0.03842	0.126121	-15.508273	0.0003889536145	0.000281202150421	0.000008098171436
350	minimi	0.031111	0.11439	-16.678905	0.000348903588839	0.000235379320507	0.00000727602319
351	massimi	0.038214	0.120999	-15.313131	0.000363901581047	0.00046263513191	0.000008207930207
351	minimi	0.030924	0.109789	-16.451229	0.000325863974891	0.000403120575814	0.000007369924568
352	massimi	0.042728	0.115779	-15.184896	0.000279595862954	0.000564916348844	0.000008240038489
352	minimi	0.034977	0.105098	-16.302166	0.000247956284445	0.000497695250301	0.000007403610238
353	massimi	0.047216	0.115847	-15.295299	0.000185939537057	0.000565253602827	0.000008138600802
353	minimi	0.039008	0.105156	-16.42788	0.000161316120682	0.000497988265652	0.000007311912814
354	massimi	0.051665	0.115861	-15.361792	0.000091511171169	0.000566624336221	0.00000818260019
354	minimi	0.043007	0.105166	-16.506063	0.000074006155873	0.000499177054022	0.000007356156448
355	massimi	0.131372	0.200424	-15.907038	-0.000270556672964	0.000275502574988	0.000028323618306
355	minimi	0.113444	0.184734	-17.039879	-0.000284948261073	0.000236592177134	0.000025876869409
356	massimi	0.13125	0.209685	-15.970382	-0.000279938520784	0.000193678271499	0.000028699779141
356	minimi	0.113332	0.193194	-17.114847	-0.000295070814677	0.000160474508036	0.000026206414566
357	massimi	0.131142	0.218816	-16.011239	-0.000271031802378	0.000111542023501	0.000027902673775
357	minimi	0.113232	0.201533	-17.165639	-0.000285521699463	0.000084098373487	0.000025489031889
358	massimi	0.122014	0.227906	-16.110077	-0.000219989600548	0.000056582925859	0.000027824949435
358	minimi	0.104894	0.209833	-17.276861	-0.000230642366347	0.000032985287555	0.0000254114381
359	massimi	0.112885	0.227962	-16.167917	-0.000143442527219	0.000046242554295	0.000028706111021
359	minimi	0.096556	0.209882	-17.33713	-0.000148313764204	0.000023375405745	0.00002621273581
360	massimi	0.103685	0.228029	-16.203219	-0.000065746283099	0.00005614380171	0.000028051566829
360	minimi	0.088158	0.209939	-17.373165	-0.0000666644207	0.000032560586058	0.00002560527489
361	massimi	0.094418	0.21889	-16.197679	-0.000010764359644	0.000111136305758	0.000028310569891
361	minimi	0.0797	0.201596	-17.358412	-0.000015522998022	0.000083705981191	0.000025837925115
362	massimi	0.094315	0.209685	-16.156847	-0.000000968070681	0.000193678271499	0.000028685011115
362	minimi	0.079605	0.193194	-17.307645	-0.000006377224073	0.000160474508036	0.00002619378276
363	massimi	0.094188	0.20035	-16.093479	-0.000011337798034	0.000275908292732	0.000028731514421
363	minimi	0.079489	0.184671	-17.232651	-0.000015998127435	0.00023698456943	0.000026225762635
364	massimi	0.103549	0.190952	-15.99464	-0.000066276097117	0.000330766827288	0.000028809238761
364	minimi	0.088032	0.176089	-17.12143	-0.000067103404604	0.000288018962498	0.000026303356423
365	massimi	0.112885	0.191027	-15.959312	-0.000143442527219	0.000340345298292	0.000028678679235
365	minimi	0.096556	0.176155	-17.085362	-0.000148313764204	0.000296936702455	0.000026187461516
366	massimi	0.122151	0.191076	-15.901499	-0.000219550616644	0.000330327703139	0.000028582621367
366	minimi	0.10502	0.176195	-17.025126	-0.00023011255233	0.000287594261	0.000026109519634
367	massimi	-0.092723	0.009293	-12.541728	-0.000109224739329	0.000510748603296	0.00000224706557
367	minimi	-0.108668	0.008602	-13.412958	-0.000116141799231	0.000475396050367	0.00000194840464
368	massimi	-0.092737	0.010651	-12.793164	-0.000128814497199	0.000366333142413	0.000002063925432
368	minimi	-0.108684	0.009781	-13.682995	-0.000137226954278	0.000341242823719	0.00000179159388

369	massimi	-0.092753	0.011988	-12.966765	-0.000112824984831	0.000219205289755	0.000002206356535
369	minimi	-0.108702	0.01094	-13.869247	-0.000120006757426	0.000204562978209	0.000001911021838
370	massimi	-0.093806	0.013271	-13.111787	-0.000049965367591	0.000135771636268	0.000002065670762
370	minimi	-0.109916	0.012052	-14.023941	-0.000052344455335	0.000127049416652	0.000001790416697
371	massimi	-0.094811	0.013173	-13.117438	0.000024871381993	0.000135583866188	0.000002084467056
371	minimi	-0.111076	0.011968	-14.029235	0.000021769556066	0.000126867732372	0.000001809007045
372	massimi	-0.095738	0.013079	-13.087915	0.000101983951138	0.000136000097616	0.000001930545358
372	minimi	-0.112144	0.011887	-13.996667	0.000093414090597	0.000127249385521	0.000001675077603
373	massimi	-0.096626	0.011845	-12.918849	0.000169644659462	0.000219431035883	0.00000180759143
373	minimi	-0.113166	0.010817	-13.814504	0.000156272312835	0.000204760570485	0.000001570647602
374	massimi	-0.096636	0.010651	-12.745213	0.000186742115107	0.000366333142412	0.000002106504303
374	minimi	-0.113176	0.009781	-13.628213	0.000172154391626	0.000341242823719	0.00000182793796
375	massimi	-0.096657	0.009436	-12.493812	0.000165779701267	0.000510522857168	0.000001848300465
375	minimi	-0.113199	0.008725	-13.358216	0.000152672067334	0.00047519845809	0.000001608030404
376	massimi	-0.095754	0.008162	-12.236497	0.000098951365193	0.000591276807168	0.000001986845268
376	minimi	-0.112161	0.007617	-13.082647	0.000090589207802	0.000550216002895	0.000001726777389
377	massimi	-0.094811	0.00807	-12.265964	0.000024871381993	0.000590807848504	0.000002088826977
377	minimi	-0.111076	0.007539	-13.115155	0.000021769556066	0.000549773093013	0.000001813010729
378	massimi	-0.09379	0.00797	-12.260369	-0.000047140484796	0.000591505268516	0.000002121970671
378	minimi	-0.109899	0.007453	-13.109921	-0.000049311869389	0.000550415971764	0.000001842116483
379	massimi	0.034532	0.067987	-17.417205	-0.000171485835641	0.000565596788482	0.00000347220599
379	minimi	0.026891	0.061708	-18.887475	-0.000179701236211	0.000498930437523	0.000003211033977
380	massimi	0.034416	0.070176	-17.664152	-0.000198342401793	0.000357127264675	0.000003495972022
380	minimi	0.026787	0.06373	-19.170183	-0.000209127772606	0.000307775720338	0.000003225035938
381	massimi	0.034311	0.072219	-17.800557	-0.00017473298782	0.000146013520859	0.000003203996689
381	minimi	0.026691	0.065619	-19.332297	-0.000183469066157	0.000114342188852	0.00000296746129
382	massimi	0.032505	0.074219	-17.904523	-0.000085640145862	0.000026529581348	0.000003187275597
382	minimi	0.02502	0.067468	-19.455064	-0.000086260083038	0.000004878548382	0.00000294687464
383	massimi	0.030697	0.07425	-17.920994	0.000024166767925	0.000026411563189	0.000003478124242
383	minimi	0.023348	0.067492	-19.469051	0.000015497523498	0.000004763481923	0.00000320973076
384	massimi	0.028863	0.074272	-17.887529	0.000134493275993	0.000026751570363	0.000003224618681
384	minimi	0.021657	0.067509	-19.428563	0.000116570845554	0.000005020904198	0.000002975277511
385	massimi	0.027004	0.072258	-17.766446	0.000231700711137	0.000146232871446	0.000003314199436
385	minimi	0.019945	0.065649	-19.279105	0.000205662694835	0.000114482852713	0.000003051280676
386	massimi	0.026897	0.070176	-17.630017	0.000257240153165	0.000357127264675	0.000003484205201
386	minimi	0.019848	0.06373	-19.116952	0.000229195627618	0.000307775720338	0.000003216086182
387	massimi	0.026784	0.067948	-17.383095	0.000227932881191	0.000565377437895	0.000003582408737
387	minimi	0.019745	0.061678	-18.834283	0.000202415542655	0.000498789773663	0.000003294853363
388	massimi	0.028748	0.065668	-17.119612	0.000131536897876	0.000682249006314	0.000003595546471
388	minimi	0.021552	0.059578	-18.537512	0.000114023010385	0.000606002629403	0.000003312133385
389	massimi	0.030697	0.065708	-17.153028	0.000024166767925	0.000681726075359	0.000003506847643
389	minimi	0.023348	0.05961	-18.577942	0.000015497523498	0.000605516363277	0.000003235815746
390	massimi	0.032621	0.065721	-17.136606	-0.000083092310693	0.000682470995329	0.000003558203388
390	minimi	0.025124	0.059618	-18.564013	-0.00008330370492	0.000606144985219	0.000003283730515
391	massimi	0.085264	0.189894	-19.847729	-0.000142860310006	0.000669122564752	0.000009596730871
391	minimi	0.072002	0.175077	-21.408182	-0.000144962501913	0.000571727547815	0.000008159377893
392	massimi	0.085156	0.193041	-20.016406	-0.000155231981136	0.000565460812873	0.000009677381148
392	minimi	0.071903	0.177752	-21.607094	-0.000158435701839	0.000475929043082	0.000008213162365
393	massimi	0.085052	0.196067	-20.156762	-0.000144269430308	0.000460888311459	0.000009209200959
393	minimi	0.071807	0.180317	-21.775351	-0.000146636705921	0.000379363991587	0.000007802538804
394	massimi	0.082028	0.199046	-20.306059	-0.00007702532115	0.000391151536907	0.000009117636119
394	minimi	0.069243	0.182837	-21.950191	-0.000079963711419	0.000314951201606	0.00000771335484
395	massimi	0.079003	0.199091	-20.314785	0.000027849560851	0.000378108686534	0.000009684840556
395	minimi	0.06668	0.182874	-21.956522	0.000016859544687	0.00030292651594	0.000008220427813
396	massimi	0.075929	0.199133	-20.295112	0.000132679587446	0.000391233993277	0.000009276234747
396	minimi	0.064076	0.18291	-21.932108	0.000113655646264	0.000315001118977	0.000007847215334
397	massimi	0.072807	0.196118	-20.134849	0.000202271708355	0.000460964494954	0.000009494667855
397	minimi	0.061429	0.18036	-21.739153	0.000177949703212	0.00037941011149	0.000008043478718
398	massimi	0.072706	0.193041	-19.99449	0.000214024291316	0.000565460812873	0.000009667045716
398	minimi	0.061336	0.177752	-21.570891	0.000188884156601	0.000475929043082	0.000008204439049
399	massimi	0.072595	0.189842	-19.825816	0.000200597504347	0.000669046381256	0.000009882197767
399	minimi	0.061234	0.175034	-21.371984	0.00017654058291	0.000571681427912	0.000008400317808
400	massimi	0.075803	0.186589	-19.676519	0.000131132748647	0.000738385747175	0.000009973762606
400	minimi	0.06396	0.172265	-21.197144	0.000112353724906	0.000635761214824	0.000008489501772
401	massimi	0.079003	0.18664	-19.696111	0.000027849560851	0.000750568679689	0.000009659586308
401	minimi	0.06668	0.172308	-21.221463	0.000016859544687	0.000647042653676	0.000008197173601
402	massimi	0.082153	0.186676	-19.687466	-0.000075478482351	0.000738468203546	0.000009815163979
402	minimi	0.069359	0.172338	-21.215228	-0.000078661790061	0.000635811132195	0.000008355641278
403	massimi	-0.121662	0.004185	-12.529553	-0.000122349840316	0.000502538633342	-0.000006034296181

403	minimi	-0.140422	0.003907	-13.397752	-0.000131325496996	0.000466989985298	-0.000006658264985
404	massimi	-0.121651	0.000053	-12.775772	-0.000141858695313	0.000358203405958	-0.00000644083065
404	minimi	-0.140409	-0.00007	-13.662701	-0.000152324815208	0.000332899556474	-0.000007119168685
405	massimi	-0.121662	-0.003801	-12.944197	-0.000125862061079	0.000211215980727	-0.000006034499297
405	minimi	-0.140422	-0.004325	-13.843914	-0.000135104683286	0.00019634428373	-0.000006657998511
406	massimi	-0.118296	-0.007711	-13.091279	-0.000063028059755	0.000127836131847	-0.000006167586165
406	minimi	-0.136706	-0.008645	-14.001947	-0.000067471165871	0.000118881110318	-0.000006812075676
407	massimi	-0.114887	-0.007802	-13.10413	0.000009657994996	0.000127588271175	-0.000006423230064
407	minimi	-0.132942	-0.00875	-14.015576	0.00000862736647	0.000118649113134	-0.000007098545971
408	massimi	-0.111384	-0.00791	-13.081819	0.000086747055012	0.000127924847406	-0.000006307348341
408	minimi	-0.129068	-0.008875	-13.991357	0.000080246971106	0.00011896035882	-0.000006973801832
409	massimi	-0.107818	-0.003949	-12.925208	0.000154379953539	0.000211303641918	-0.00000644694786
409	minimi	-0.125122	-0.004496	-13.822656	0.000143080419584	0.000196422590379	-0.000007135264415
410	massimi	-0.107822	0.000053	-12.756769	0.000171552422892	0.000358203405958	-0.000006396790703
410	minimi	-0.125126	-0.00007	-13.641428	0.000159034477441	0.000332899556474	-0.000007068207748
411	massimi	-0.107818	0.004357	-12.510563	0.000150600767249	0.00050245097215	-0.000006446744744
411	minimi	-0.125122	0.004055	-13.376494	0.000139568198821	0.00046691167865	-0.000007135530889
412	massimi	-0.111384	0.008736	-12.251217	0.000083781768804	0.00058321218664	-0.000006307067435
412	minimi	-0.129068	0.008016	-13.097621	0.000077491155704	0.000541941238676	-0.000006974170361
413	massimi	-0.114887	0.008611	-12.273475	0.000009657994996	0.00058268321709	-0.000006423208311
413	minimi	-0.132942	0.007908	-13.121782	0.00000862736647	0.000541448081607	-0.00000709857451
414	massimi	-0.118296	0.008506	-12.260678	-0.000060272244353	0.000583300902199	-0.000006167305259
414	minimi	-0.136706	0.007817	-13.108211	-0.000064505879664	0.000542020487178	-0.000006812444204
415	massimi	-0.003288	0.033449	-17.675563	-0.000248955240525	0.000567744345301	-0.000002304285829
415	minimi	-0.007909	0.031077	-19.180658	-0.000268652784461	0.000500455296583	-0.000002583258706
416	massimi	-0.003335	0.031818	-17.922277	-0.000276137614871	0.000355143441324	-0.000002439166895
416	minimi	-0.007953	0.029619	-19.463358	-0.000298450781059	0.000305668778809	-0.000002720382038
417	massimi	-0.003388	0.03012	-18.05629	-0.000252180163661	0.000139913005842	-0.000002417490136
417	minimi	-0.008002	0.0281	-19.623008	-0.000272399684308	0.000108619046823	-0.000002704864525
418	massimi	-0.001895	0.028392	-18.198013	-0.000161264532184	0.000017899975194	-0.000002444245108
418	minimi	-0.006668	0.02655	-19.789437	-0.000173114298412	-0.000003063961131	-0.000002727234506
419	massimi	-0.000405	0.0284	-18.255423	-0.000058232745139	0.000017399706531	-0.000002445881193
419	minimi	-0.005333	0.026553	-19.850448	-0.00006053004587	-0.000003511292432	-0.000002728684626
420	massimi	0.001086	0.028392	-18.26187	0.000052305533619	0.000017343963515	-0.000002450732969
420	minimi	-0.003994	0.026541	-19.855813	0.000045040830225	-0.000003598870463	-0.000002727726799
421	massimi	0.002579	0.03012	-18.184462	0.000151594796701	0.000139363602582	-0.000002436636387
421	minimi	-0.002651	0.028093	-19.756237	0.000135960191737	0.000108090495101	-0.000002706317325
422	massimi	0.002526	0.031818	-18.050542	0.000177944612788	0.000355143441324	-0.000002437122568
422	minimi	-0.0027	0.029619	-19.596683	0.000160205024968	0.000305668778809	-0.000002720226916
423	massimi	0.00248	0.033449	-17.803735	0.000147847896854	0.00056829374856	-0.000002323432081
423	minimi	-0.002743	0.031084	-19.313886	0.000132735268601	0.000500983848305	-0.000002584711505
424	massimi	0.001034	0.035057	-17.499211	0.000049365578028	0.000687718151893	-0.000002294173807
424	minimi	-0.004043	0.032524	-18.969712	0.000042510436782	0.000610439517718	-0.000002559548522
425	massimi	-0.000405	0.035057	-17.492714	-0.000058232745139	0.000686804264324	-0.000002433757778
425	minimi	-0.005333	0.03252	-18.964289	-0.00006053004587	0.000609613342357	-0.000002715661465
426	massimi	-0.001843	0.035057	-17.435354	-0.000158734138741	0.000687162140213	-0.000002287685946
426	minimi	-0.006619	0.032515	-18.903336	-0.000170174342821	0.000609904608386	-0.00000255905623
427	massimi	0.114119	0.030401	-21.542706	-0.000611109972255	0.000260872513761	-0.00000353715484
427	minimi	0.101213	0.028634	-23.240085	-0.00066266312896	0.000193117683209	-0.000003581343246
428	massimi	0.114106	0.029263	-21.586869	-0.000623660848133	0.000147440215975	-0.000003195136709
428	minimi	0.101199	0.028545	-23.304728	-0.000676289676183	0.000088299755017	-0.000003437814702
429	massimi	0.114087	0.028438	-21.600041	-0.000611371408239	0.000033770446192	-0.00000411020195
429	minimi	0.101181	0.028107	-23.335821	-0.000663062850663	-0.000016660391626	-0.000003640088923
430	massimi	0.115275	0.028333	-21.770481	-0.000541034690966	-0.000042526012727	-0.00000352505643
430	minimi	0.101315	0.026953	-23.537564	-0.000586911075045	-0.000087119342608	-0.000003570099678
431	massimi	0.11643	0.028389	-21.927502	-0.000435779774681	-0.000057188082547	-0.000003199903647
431	minimi	0.101421	0.027019	-23.707922	-0.00047289239787	-0.000100621329031	-0.000003443516436
432	massimi	0.117512	0.028444	-22.053444	-0.00032982297735	-0.000043926142196	-0.00000314890229
432	minimi	0.101464	0.027081	-23.844626	-0.000358112064852	-0.000088409589834	-0.000003336366222
433	massimi	0.118556	0.028504	-22.16645	-0.000259184826187	0.000032476831689	-0.000003044547811
433	minimi	0.101472	0.028183	-23.950468	-0.000281633184115	-0.000017852483187	-0.000003219384374
434	massimi	0.118542	0.029263	-22.153352	-0.000246169133262	0.000147440215975	-0.0000030208404974
434	minimi	0.101459	0.028545	-23.919455	-0.000267618255161	0.000088299755017	-0.000003453046462
435	massimi	0.118524	0.030325	-22.109115	-0.00025944626217	0.000262166128265	0.0000000127569
435	minimi	0.101441	0.028568	-23.854731	-0.000282069721882	0.000194309774771	-0.000003160638696
436	massimi	0.117493	0.031391	-21.938676	-0.000330064524569	0.000338467116054	-0.000000045757652
436	minimi	0.101445	0.028593	-23.652989	-0.000358515392972	0.00026480580346	-0.000003230627941
437	massimi	0.11643	0.031454	-21.812718	-0.000435779774681	0.000351483338475	-0.000000203638036
437	minimi	0.101421	0.028649	-23.51626	-0.000472892397869	0.000276870385839	-0.000003447344729

438	massimi	0.115294	0.031518	-21.655712	-0.000540793143746	0.000337066986584	-0.000000249361005
438	minimi	0.101334	0.028704	-23.345927	-0.000586507746924	0.000263515556234	-0.000003464361397
439	massimi	-0.167733	-0.002551	-12.425238	-0.000154734402693	0.00034542097201	-0.000016947604398
439	minimi	-0.191207	-0.003185	-13.271178	-0.000167520100425	0.000323381689148	-0.000018196579985
440	massimi	-0.167687	-0.013288	-12.582374	-0.000173171389083	0.000202811588014	-0.000017708710929
440	minimi	-0.191156	-0.014718	-13.438711	-0.000187327783011	0.00019074284432	-0.000019035521497
441	massimi	-0.167691	-0.023997	-12.662819	-0.00015674681444	0.000058700553144	-0.000016896819899
441	minimi	-0.191161	-0.026221	-13.523791	-0.000169659842148	0.000056691707613	-0.000018140327492
442	massimi	-0.158282	-0.034779	-12.740344	-0.000094918313916	-0.000019221178464	-0.000017054651018
442	minimi	-0.181058	-0.037807	-13.606361	-0.000103187746413	-0.000022908594363	-0.00001832262883
443	massimi	-0.148836	-0.034886	-12.771312	-0.000024869082372	-0.000019437031991	-0.000017689607537
443	minimi	-0.17091	-0.037931	-13.640286	-0.000027886308202	-0.000023143206534	-0.000019012802855
444	massimi	-0.139267	-0.035037	-12.767615	0.000047530916432	-0.000019449618689	-0.000017235712689
444	minimi	-0.160621	-0.038102	-13.636941	0.000045283407808	-0.000023164749955	-0.000018530543673
445	massimi	-0.1296	-0.024189	-12.717556	0.000114004799131	0.000058447441914	-0.000017431146345
445	minimi	-0.150221	-0.026441	-13.58517	0.000107113501952	0.000056465982358	-0.000018753899641
446	massimi	-0.129595	-0.013288	-12.637151	0.000131810359975	0.000202811588014	-0.000017651657249
446	minimi	-0.150215	-0.014718	-13.500134	0.000123660806452	0.00019074284432	-0.000018970006212
447	massimi	-0.129558	-0.002359	-12.479976	0.000111865057409	0.000345674083241	-0.000017481930844
447	minimi	-0.150175	-0.002965	-13.332557	0.000105101090204	0.000323607414404	-0.000018810512134
448	massimi	-0.139246	0.008752	-12.291701	0.000045851997709	0.000425804224542	-0.000017305946797
448	minimi	-0.160597	0.008539	-13.130915	0.000043704396787	0.000398129157518	-0.000018608339924
449	massimi	-0.148836	0.008577	-12.295368	-0.000024869082372	0.000425292616785	-0.000017695046538
449	minimi	-0.17091	0.008385	-13.134228	-0.000027886308202	0.000397655668826	-0.000019018827475
450	massimi	-0.158304	0.008456	-12.26443	-0.000093339302896	0.00042554806895	-0.000017124885125
450	minimi	-0.181082	0.008282	-13.100336	-0.000101508827691	0.000397900717293	-0.000018400425081
451	massimi	-0.030287	-0.002969	-17.261756	-0.000327744475847	0.000422289029036	-0.000003893701166
451	minimi	-0.03075	-0.00379	-18.7142	-0.000356063208627	0.000368793387822	-0.000004795878249
452	massimi	-0.030269	-0.005432	-17.427926	-0.000353435754802	0.000214883292279	-0.000004048033777
452	minimi	-0.030736	-0.00682	-18.907953	-0.000384199915716	0.000178614729366	-0.000004970262556
453	massimi	-0.030265	-0.007883	-17.484231	-0.000329628929913	0.000005886529697	-0.000003872941115
453	minimi	-0.030733	-0.009835	-18.981849	-0.000358330309976	-0.000012886417425	-0.000004769813283
454	massimi	-0.02761	-0.010346	-17.594311	-0.000241031025089	-0.000112623792472	-0.000003898238835
454	minimi	-0.028577	-0.012861	-19.113686	-0.000261652476944	-0.000121450618497	-0.000004791886274
455	massimi	-0.024953	-0.010364	-17.696558	-0.000141139218845	-0.000113382539113	-0.000004046636465
455	minimi	-0.026415	-0.012877	-19.224474	-0.000152590705101	-0.000122129764912	-0.000004967495104
456	massimi	-0.022275	-0.010392	-17.749082	-0.000040661388116	-0.000114025447022	-0.000003930373264
456	minimi	-0.024232	-0.012904	-19.281014	-0.000042895361031	-0.000122747082971	-0.000004822241889
457	massimi	-0.019577	-0.007917	-17.794883	0.000053792246032	0.000004501534368	-0.00000396777266
457	minimi	-0.02203	-0.009867	-19.317706	0.000047945557226	-0.000014167472904	-0.000004859395389
458	massimi	-0.019571	-0.005432	-17.738803	0.000080414895874	0.000214883292279	-0.000004037908205
458	minimi	-0.022025	-0.00682	-19.244054	0.000072448912459	0.000178614729366	-0.000004960697489
459	massimi	-0.019556	-0.002935	-17.572408	0.000051525144682	0.000423674024364	-0.000003988532712
459	minimi	-0.022013	-0.003758	-19.050057	0.00004606110316	0.000370074443301	-0.000004885460356
460	massimi	-0.022264	-0.00044	-17.303429	-0.000042140000168	0.000540630730947	-0.000003959083976
460	minimi	-0.024223	-0.000695	-18.744869	-0.00004467421223	0.000477348813641	-0.000004858289186
461	massimi	-0.024953	-0.000469	-17.250876	-0.000141139218845	0.000539468593608	-0.000004046859726
461	minimi	-0.026415	-0.000724	-18.688294	-0.000152590705101	0.00047629990305	-0.000004970286486
462	massimi	-0.027622	-0.000486	-17.148658	-0.000239529413038	0.000539229076396	-0.000003926949547
462	minimi	-0.028585	-0.000738	-18.577541	-0.000259873625745	0.000476052349167	-0.000004827933572
463	massimi	0.219042	-0.104691	-20.212558	-0.000795546364811	-0.000641028670205	0.00000608662865
463	minimi	0.200034	-0.113711	-21.756123	-0.00085907806458	-0.000649509404578	0.000003856103157
464	massimi	0.219106	-0.102653	-19.987065	-0.00080581702396	-0.000738879670684	0.000006643331121
464	minimi	0.200092	-0.112395	-21.526495	-0.000870235538008	-0.000755168195909	0.000004431939399
465	massimi	0.219165	-0.100551	-19.732784	-0.000793358706042	-0.000835540607587	0.000006292705647
465	minimi	0.200146	-0.111009	-21.265772	-0.000856842179101	-0.000859610688837	0.00000408173711
466	massimi	0.21785	-0.098396	-19.697863	-0.000728103841191	-0.000900770428506	0.000006532506653
466	minimi	0.198108	-0.109565	-21.241961	-0.000786352658751	-0.000930083132453	0.000004345786143
467	massimi	0.21646	-0.098292	-19.917274	-0.000631503298355	-0.000912980313047	0.000006623795527
467	minimi	0.196002	-0.10945	-21.478907	-0.000681951346795	-0.000943307091809	0.000004410428418
468	massimi	0.214934	-0.098181	-20.107915	-0.000533885635814	-0.000902640169661	0.000006925982416
468	minimi	0.193774	-0.109327	-21.68477	-0.000576451661869	-0.000932102239086	0.000004780330099
469	massimi	0.213352	-0.100424	-20.553586	-0.000468193952857	-0.000837268108028	0.00000700093564
469	minimi	0.191494	-0.110868	-22.152145	-0.000505490427917	-0.000861476191765	0.000004863887097
470	massimi	0.21342	-0.102653	-20.807974	-0.000454683196962	-0.000738879670684	0.000006617689398
470	minimi	0.191557	-0.112395	-22.412984	-0.000490960556347	-0.000755168195909	0.000004403621376
471	massimi	0.213475	-0.104819	-21.033361	-0.000466006294087	-0.000639301169764	0.000006794858643
471	minimi	0.191607	-0.113852	-22.642496	-0.000503254542438	-0.00064764390165	0.000004638253143
472	massimi	0.215007	-0.106935	-21.068281	-0.000531864403367	-0.000573418016552	0.000006555057638

472	minimi	0.193841	-0.115254	-22.666308	-0.000574385871564	-0.00057649549579	0.00000437420411
473	massimi	0.21646	-0.106828	-20.877765	-0.000631503298355	-0.000561846486049	0.000006637224993
473	minimi	0.196002	-0.115137	-22.460572	-0.000681951346795	-0.000564032110149	0.000004425132356
474	massimi	0.217777	-0.10672	-20.658229	-0.000730125073637	-0.000575287757706	0.000006161581874
474	minimi	0.198041	-0.115017	-22.223498	-0.000788418449056	-0.000578514602423	0.000003939660154
475	massimi	-0.240558	-0.049901	-11.039956	-0.000268782035683	0.000262216455657	0.000007310004623
475	minimi	-0.265475	-0.055244	-11.692432	-0.000294421344193	0.000234673778769	0.000006322561973
476	massimi	-0.240485	-0.046034	-11.146999	-0.000284536677943	0.000137124098396	0.000007061306329
476	minimi	-0.265395	-0.050767	-11.814023	-0.00031128570972	0.000117439057542	0.000006089345824
477	massimi	-0.240414	-0.042072	-11.186233	-0.000270021063757	0.000011016451407	0.000007504034712
477	minimi	-0.265316	-0.046185	-11.863227	-0.000295868057161	-0.000000665202082	0.000006498503088
478	massimi	-0.243977	-0.038167	-11.295315	-0.000215247047266	-0.000060702536715	0.00000721305818
478	minimi	-0.269433	-0.041667	-11.99118	-0.000237373476855	-0.000067797741159	0.000006235415845
479	massimi	-0.247421	-0.038396	-11.394905	-0.000153606138306	-0.000061534022866	0.000007128987154
479	minimi	-0.273418	-0.04192	-12.101637	-0.000171527342769	-0.000068530868074	0.000006150404349
480	massimi	-0.25066	-0.038596	-11.463757	-0.000091327443045	-0.000062278137461	0.000006880441733
480	minimi	-0.277176	-0.042141	-12.179273	-0.000104969011952	-0.000069208722885	0.000005934424686
481	massimi	-0.253794	-0.042391	-11.524325	-0.000036543583414	0.000009459576381	0.000006522458867
481	minimi	-0.280818	-0.046538	-12.240764	-0.000046463440109	-0.000002059414554	0.000005610255816
482	massimi	-0.253707	-0.046034	-11.485336	-0.000021269917156	0.000137124098396	0.00000716611588
482	minimi	-0.280721	-0.050767	-12.191834	-0.000030199293659	0.000117439057542	0.000006184190046
483	massimi	-0.25365	-0.049582	-11.378048	-0.000037782611488	0.000263773330684	0.000006328428778
483	minimi	-0.280659	-0.054891	-12.069969	-0.000047910153077	0.000236067991242	0.000005434314702
484	massimi	-0.250585	-0.053203	-11.17074	-0.000092299629271	0.000334509006871	0.000006612101388
484	minimi	-0.277093	-0.059097	-11.837141	-0.000106104155256	0.000302359110829	0.000005691101088
485	massimi	-0.247421	-0.053415	-11.101869	-0.000153606138306	0.000333433552086	0.000007108206607
485	minimi	-0.273418	-0.05933	-11.759483	-0.000171527342769	0.00030139748183	0.000006131561124
486	massimi	-0.244053	-0.053632	-11.002299	-0.000214274861039	0.000332933406125	0.000006944717835
486	minimi	-0.269517	-0.05957	-11.649048	-0.000236238333551	0.000300948129103	0.000005992092247
487	massimi	-0.009755	-0.042422	-14.700087	-0.000420686854209	0.000161297027465	-0.000003187598896
487	minimi	-0.010409	-0.046639	-15.880216	-0.000457324467827	0.000148983246703	-0.000003997715318
488	massimi	-0.009673	-0.044424	-14.739166	-0.00044116855081	-0.000011541073519	-0.000003205343743
488	minimi	-0.010335	-0.049149	-15.92228	-0.00047958844817	-0.000013225754946	-0.000004026148232
489	massimi	-0.009601	-0.046334	-14.685712	-0.000420565091446	-0.000171979942024	-0.00000301781157
489	minimi	-0.01027	-0.051558	-15.863742	-0.000457184931027	-0.000187650612026	-0.000003809869131
490	massimi	-0.007469	-0.048213	-14.756421	-0.000345947999796	-0.000263043247233	-0.000002991834441
490	minimi	-0.008578	-0.053932	-15.940168	-0.00037606291562	-0.000286651041529	-0.000003778174612
491	massimi	-0.005344	-0.04822	-14.921366	-0.000262575768861	-0.000264079174599	-0.000003197131943
491	minimi	-0.006893	-0.053937	-16.11947	-0.000285424366258	-0.00028777626368	-0.000004017830256
492	massimi	-0.003216	-0.048225	-15.044356	-0.000178113296456	-0.000265455193105	-0.00000300021968
492	minimi	-0.005202	-0.053941	-16.253158	-0.000193600705711	-0.000289272868077	-0.000003784675993
493	massimi	-0.001074	-0.046343	-15.263649	-0.000103479385801	-0.00017436322096	-0.000003042557153
493	minimi	-0.003498	-0.051565	-16.49197	-0.000112460407758	-0.000190241277124	-0.000003829055283
494	massimi	-0.001001	-0.044424	-15.317523	-0.000081580099579	-0.000011541073519	-0.000003202701551
494	minimi	-0.003432	-0.049149	-16.550964	-0.000088648304585	-0.000013225754946	-0.000004024099644
495	massimi	-0.00092	-0.042413	-15.278024	-0.000103357623039	0.000163887692563	-0.00000321234448
495	minimi	-0.003359	-0.046632	-16.508444	-0.000112320870958	0.000151366525639	-0.000004016901469
496	massimi	-0.003135	-0.040363	-15.073151	-0.000178017756909	0.000263015931653	-0.000003235031962
496	minimi	-0.005129	-0.04407	-16.286157	-0.00019349122	0.000242542834992	-0.00000404463296
497	massimi	-0.005344	-0.040379	-14.950164	-0.000262575768861	0.000261551285074	-0.000003215315017
497	minimi	-0.006893	-0.044086	-16.152471	-0.000285424366258	0.000241194703554	-0.000004037947311
498	massimi	-0.00755	-0.040375	-14.785216	-0.000346043539343	0.000260394105105	-0.000003226646722
498	minimi	-0.008652	-0.044079	-15.973167	-0.000376172401331	0.00024013088912	-0.000004037961915
499	massimi	0.065932	-0.267393	-12.978847	-0.001207092927187	-0.000095263008091	-0.000024217786307
499	minimi	0.061865	-0.289956	-13.931123	-0.001302068723837	-0.000125607787292	-0.000026294687997
500	massimi	0.066106	-0.275265	-12.926999	-0.001213692781537	-0.000163193193282	-0.000024111629686
500	minimi	0.062026	-0.298503	-13.888261	-0.001309250763302	-0.000188587415758	-0.000026182149822
501	massimi	0.066259	-0.282964	-12.856392	-0.001206534561691	-0.000230860534221	-0.000023665191129
501	minimi	0.062167	-0.306864	-13.825157	-0.001301585544999	-0.000251263299212	-0.000025695440818
502	massimi	0.074681	-0.290582	-13.153048	-0.001163953625021	-0.000277053676604	-0.000023381849069
502	minimi	0.069923	-0.315135	-14.158242	-0.001255631280703	-0.000294056987583	-0.000025389089275
503	massimi	0.083036	-0.290537	-13.519882	-0.001100764685529	-0.000287088542338	-0.00002413471239
503	minimi	0.077618	-0.315087	-14.553952	-0.001187387879294	-0.000303325683644	-0.000026207107013
504	massimi	0.09134	-0.290497	-13.867803	-0.001035802818714	-0.000280569268669	-0.000023226029728
504	minimi	0.085265	-0.315044	-14.929245	-0.001117232032435	-0.00029731610759	-0.000025222393398
505	massimi	0.099659	-0.282914	-14.287122	-0.000992460470431	-0.000234108677327	-0.000023384726761
505	minimi	0.092926	-0.30681	-15.368476	-0.001070456438265	-0.000254274481394	-0.000025395399415
506	massimi	0.099816	-0.275265	-14.357915	-0.00098346776047	-0.000163193193282	-0.000024121784
506	minimi	0.09307	-0.298503	-15.431782	-0.001060812367119	-0.000188587415758	-0.00002619301293

507	massimi	0.099987	-0.267443	-14.409577	-0.000991902104935	-0.000092014864985	-0.00002393732194
507	minimi	0.093227	-0.29001	-15.474442	-0.001069973259427	-0.000122596605111	-0.000025994646588
508	massimi	0.091535	-0.259521	-14.112922	-0.001035286930919	-0.000045441391032	-0.000024220663999
508	minimi	0.085444	-0.281408	-15.141357	-0.001116785611468	-0.000079424530827	-0.000026300998131
509	massimi	0.083036	-0.259492	-13.765032	-0.001100764685529	-0.000038650146155	-0.000024098701297
509	minimi	0.077618	-0.281377	-14.766091	-0.001187387879294	-0.000073100662577	-0.000026168055739
510	massimi	0.074486	-0.259436	-13.398166	-0.001164469512816	-0.000048956983096	-0.000024376483341
510	minimi	0.069744	-0.281317	-14.370354	-0.00125607770167	-0.000082683650833	-0.000026467694009
511	massimi	-0.327022	0.038108	-18.502245	-0.000281238343803	0.001269536459858	0.000015957065044
511	minimi	-0.359489	0.037474	-19.977056	-0.000328136529431	0.001152390044474	0.000014794581013
512	massimi	-0.327056	0.043213	-18.860589	-0.000293712761702	0.001172175759024	0.000015423437321
512	minimi	-0.359525	0.042208	-20.372112	-0.000341674318038	0.001062565761042	0.000014309550159
513	massimi	-0.327068	0.048291	-19.192198	-0.000284384365269	0.001072927113873	0.00001587031469
513	minimi	-0.359537	0.046917	-20.738181	-0.000331607081782	0.000971030074713	0.000014709847288
514	massimi	-0.331883	0.053323	-19.580494	-0.000223604270593	0.001006708887698	0.000015538688888
514	minimi	-0.364732	0.051583	-21.17328	-0.000265700895054	0.000909971506078	0.000014405699702
515	massimi	-0.336586	0.053116	-19.636622	-0.00013139703736	0.000993546250413	0.000015450453501
515	minimi	-0.369804	0.051394	-21.241684	-0.000165699758985	0.000897880675005	0.000014334327803
516	massimi	-0.341079	0.052918	-19.665814	-0.000038978171794	0.001006218287475	0.000014796305247
516	minimi	-0.374645	0.051214	-21.280873	-0.000065431741507	0.000909582468603	0.000013730000732
517	massimi	-0.34548	0.04805	-19.362982	0.000021892811726	0.001072473836103	0.000014534073912
517	minimi	-0.379385	0.046697	-20.95355	0.00000589061653	0.000970670633297	0.000013493634444
518	massimi	-0.345505	0.043213	-19.031396	0.000031440189172	0.001172175759024	0.000015471816401
518	minimi	-0.379411	0.042208	-20.58751	0.000010932446457	0.001062565761042	0.000014353583585
519	massimi	-0.345526	0.038349	-18.67303	0.00001874679026	0.001269989737628	0.000014620824266
519	minimi	-0.379432	0.037693	-20.192426	-0.000002881490699	0.00115274948589	0.000013578368169
520	massimi	-0.341107	0.033428	-18.284733	-0.000041884859416	0.001335434478781	0.000014952450068
520	minimi	-0.374674	0.033125	-19.757326	-0.0000686382713	0.001213102661607	0.000013882515755
521	massimi	-0.336586	0.033231	-18.255362	-0.00013139703736	0.001346153014908	0.000015444800221
521	minimi	-0.369804	0.032946	-19.717938	-0.000165699758985	0.00122303362588	0.000014328805941
522	massimi	-0.331856	0.033022	-18.199414	-0.000220697582971	0.001334943878559	0.000015694833709
522	minimi	-0.364704	0.032756	-19.649733	-0.000262494365262	0.001212713624132	0.000014558214725
523	massimi	0.07327	-0.023955	-17.752546	-0.000404846816791	-0.000621965588314	-0.000003274850887
523	minimi	0.067539	-0.027154	-19.226758	-0.00044245087927	-0.000665333559917	-0.000003481389998
524	massimi	0.073288	-0.025005	-17.535506	-0.000413840901985	-0.000706834812937	-0.000003362759186
524	minimi	0.067555	-0.028269	-18.994325	-0.000452242967218	-0.000757587687066	-0.00000335590152
525	massimi	0.073301	-0.026038	-17.293579	-0.000402754035736	-0.000790565586472	-0.00000322465417
525	minimi	0.067566	-0.029366	-18.734836	-0.000440207830215	-0.000848621618901	-0.000003424639275
526	massimi	0.074424	-0.027058	-17.149198	-0.000346361175691	-0.000846854900723	-0.000003148648271
526	minimi	0.068623	-0.030448	-18.582161	-0.000378899595502	-0.000909820359566	-0.000003341303332
527	massimi	0.07552	-0.027019	-17.246951	-0.000262880105421	-0.000856914602757	-0.000003166944989
527	minimi	0.069656	-0.030407	-18.689193	-0.000288129711299	-0.000920769326232	-0.000003362759186
528	massimi	0.076568	-0.026981	-17.319893	-0.000178975631923	-0.00084763323039	-0.000003008814314
528	minimi	0.070644	-0.030366	-18.769251	-0.000196895756033	-0.000910673447713	-0.000003189696736
529	massimi	0.077598	-0.025993	-17.63526	-0.000122400934681	-0.000791284704644	-0.000002972962423
529	minimi	0.071616	-0.029317	-19.109336	-0.000135388218679	-0.000849409808297	-0.000003151757567
530	massimi	0.077614	-0.025005	-17.877231	-0.000110875963029	-0.000706834812937	-0.000003169865694
530	minimi	0.07163	-0.028269	-19.368873	-0.000122872896298	-0.000757587687066	-0.000003365469933
531	massimi	0.077629	-0.024001	-18.094227	-0.000120308153626	-0.000621246470142	-0.000003023159139
531	minimi	0.071643	-0.027204	-19.601257	-0.000133145169624	-0.000664545370521	-0.00000320850829
532	massimi	0.076587	-0.022981	-18.238608	-0.00017704205936	-0.000564409018613	-0.000003099165038
532	minimi	0.070661	-0.02612	-19.753933	-0.000194823347121	-0.000602757698975	-0.000003291844233
533	massimi	0.07552	-0.022945	-18.165786	-0.000262880105421	-0.000553949663801	-0.000003163673808
533	minimi	0.069656	-0.026081	-19.674004	-0.000288129711299	-0.000591399255313	-0.000003358680899
534	massimi	0.074406	-0.022905	-18.067913	-0.000348294748253	-0.00056518734828	-0.000003238998995
534	minimi	0.068607	-0.026038	-19.566843	-0.000380972004413	-0.000603610787123	-0.000003443450829
535	massimi	-0.02612	0.008517	-18.604352	-0.000336191314883	-0.000437777409151	-0.000029068256557
535	minimi	-0.026582	0.00362	-20.171431	-0.000341089905986	-0.000480942106389	-0.000031885129135
536	massimi	-0.026108	-0.001881	-18.446365	-0.000346907885412	-0.000526924234921	-0.000029461114196
536	minimi	-0.026571	-0.00586	-19.998044	-0.000350933523637	-0.000577857282027	-0.000032316757665
537	massimi	-0.026114	-0.012278	-18.262206	-0.00033448040768	-0.000615222379418	-0.000029056492777
537	minimi	-0.02658	-0.015336	-19.796213	-0.000339529800235	-0.000673841741975	-0.000031881352787
538	massimi	-0.016173	-0.022687	-18.153313	-0.000270005735329	-0.000674471984707	-0.00002905753042
538	minimi	-0.016628	-0.024822	-19.664953	-0.000280202100403	-0.000738222278567	-0.000031884480186
539	massimi	-0.005776	-0.022679	-18.228736	-0.000174248286116	-0.000685101017822	-0.000029461029663
539	minimi	-0.007152	-0.024816	-19.735712	-0.000192092282846	-0.000749715938701	-0.000032316502889
540	massimi	0.004624	-0.022693	-18.278044	-0.000078210186958	-0.000675040727337	-0.000029071888526
540	minimi	0.002328	-0.02483	-19.778097	-0.000103673075225	-0.000738738189082	-0.000031896075688
541	massimi	0.015039	-0.012282	-18.51188	-0.00001361498506	-0.000615747854906	-0.000029082336404

541	minimi	0.011823	-0.015341	-20.022694	-0.000044212502948	-0.000674318404555	-0.000031902223912
542	massimi	0.015029	-0.001881	-18.696072	-0.000000897112149	-0.000526924234921	-0.000029460178518
542	minimi	0.011816	-0.00586	-20.224554	-0.00003248864628	-0.000577857282027	-0.000032316002019
543	massimi	0.015041	0.00852	-18.854026	-0.000011904077857	-0.000437251933664	-0.000029094100184
543	minimi	0.011829	0.003624	-20.397912	-0.000042652397197	-0.000480465443809	-0.00003190600026
544	massimi	0.004625	0.018934	-18.962919	-0.000076629437163	-0.000377594581669	-0.00002909306254
544	minimi	0.002332	0.013121	-20.529173	-0.000102231654649	-0.000415645948744	-0.000031902872861
545	massimi	-0.005776	0.01892	-18.9137	-0.000174248286116	-0.000366656140464	-0.00002946026305
545	minimi	-0.007152	0.013107	-20.486886	-0.000192092282846	-0.000403705165439	-0.000032316256795
546	massimi	-0.016174	0.018928	-18.838188	-0.000271586485124	-0.000378163324299	-0.000029078704435
546	minimi	-0.016632	0.013113	-20.416028	-0.000281643520979	-0.000416161859259	-0.00003189127736
547	massimi	0.097912	-0.097544	-13.922194	-0.000673628797014	-0.000879052097906	-0.000016277858839
547	minimi	0.089558	-0.108604	-15.028291	-0.000734494743633	-0.00095736906808	-0.000017893560442
548	massimi	0.097983	-0.102824	-13.62503	-0.000679768187185	-0.000945118946306	-0.00001619914391
548	minimi	0.089622	-0.114407	-14.70471	-0.0007141141748355	-0.001029000640157	-0.000017806646133
549	massimi	0.098038	-0.108039	-13.308503	-0.000670830509508	-0.001009663555546	-0.000016071439067
549	minimi	0.089671	-0.12014	-14.360134	-0.000731448101042	-0.00109897487041	-0.000017663887139
550	massimi	0.103819	-0.113219	-13.184119	-0.0006269848117	-0.001053420049349	-0.000015908469589
550	minimi	0.094931	-0.125833	-14.225224	-0.000683909778674	-0.001146416439475	-0.000017484065449
551	massimi	0.109548	-0.113161	-13.376442	-0.000562655320023	-0.001061472832815	-0.000016212420358
551	minimi	0.100143	-0.125769	-14.435084	-0.000614168871428	-0.00115515030341	-0.000017821295461
552	massimi	0.115209	-0.11311	-13.549467	-0.000497419597427	-0.001055085946915	-0.000015707431521
552	minimi	0.105293	-0.125712	-14.62402	-0.000543438763866	-0.001148234857237	-0.000017264146848
553	massimi	0.120855	-0.107974	-14.03982	-0.000453184704453	-0.001011202719731	-0.000015709584022
553	minimi	0.11043	-0.120068	-15.158406	-0.000495475613815	-0.00110065495189	-0.000017268048401
554	massimi	0.120914	-0.102824	-14.356442	-0.000443309328069	-0.000945118946306	-0.000016212245003
554	minimi	0.110483	-0.114407	-15.503086	-0.000484758417384	-0.001029000640157	-0.000017820977618
555	massimi	0.120981	-0.09761	-14.653511	-0.000450386416947	-0.000877512933636	-0.000015916003794
555	minimi	0.110542	-0.108675	-15.826564	-0.000492428971224	-0.0009556889866	-0.000017497721703
556	massimi	0.115284	-0.092348	-14.777894	-0.000494834189876	-0.000832975956789	-0.000016078973272
556	minimi	0.10536	-0.10289	-15.961474	-0.000540623894864	-0.000907397309657	-0.000017677543393
557	massimi	0.109548	-0.0923	-14.60503	-0.000562655320023	-0.000825013973698	-0.000016198986855
557	minimi	0.100143	-0.102838	-15.772712	-0.000614168871428	-0.000898766972438	-0.00001780632829
558	massimi	0.103744	-0.092238	-14.412547	-0.000629570219252	-0.000834641854355	-0.00001628001134
558	minimi	0.094864	-0.10277	-15.662678	-0.000686724647677	-0.000909215727419	-0.000017897461195
559	massimi	0.212608	-0.070611	-16.992826	-0.000637989622451	-0.000479691005792	-0.00002284927034
559	minimi	0.191055	-0.078571	-18.453077	-0.000696811510624	-0.000528496262632	-0.000025331822145
560	massimi	0.212669	-0.078006	-16.822596	-0.0006466623186	-0.000561326057302	-0.000022682363168
560	minimi	0.191109	-0.086769	-18.265696	-0.000706255348178	-0.000617481968408	-0.000025144979869
561	massimi	0.212704	-0.085352	-16.628342	-0.000636327660537	-0.000642057018848	-0.000022692672735
561	minimi	0.191141	-0.094913	-18.052129	-0.000694983283517	-0.000705473137688	-0.000025157632038
562	massimi	0.220931	-0.092662	-16.608777	-0.000581865616845	-0.000696505031687	-0.000022464711156
562	minimi	0.198562	-0.103016	-18.029425	-0.000635620193128	-0.000764819945081	-0.000024904032817
563	massimi	0.229071	-0.092543	-16.783495	-0.000501168491049	-0.000706700505059	-0.000022700934253
563	minimi	0.205904	-0.102884	-18.22032	-0.000547668290699	-0.000775930484005	-0.000025165639547
564	massimi	0.237067	-0.092436	-16.934199	-0.000419664167018	-0.000697988880395	-0.000022051357049
564	minimi	0.213118	-0.102765	-18.38504	-0.000458834295949	-0.000766441469378	-0.000024444171731
565	massimi	0.245013	-0.085218	-17.27974	-0.000364855459308	-0.000643427983642	-0.000021948663056
565	minimi	0.220286	-0.094764	-18.763967	-0.000399092377094	-0.000706971304389	-0.000024329912915
566	massimi	0.245057	-0.078006	-17.474079	-0.000353685574011	-0.000561326057302	-0.000022709300307
566	minimi	0.220325	-0.086769	-18.977626	-0.000386907590505	-0.000617481968408	-0.000025174947739
567	massimi	0.245108	-0.070745	-17.644224	-0.000363193497394	-0.000478320040998	-0.000022105260661
567	minimi	0.220371	-0.078721	-19.164914	-0.000397264149987	-0.00052699809593	-0.000024504103022
568	massimi	0.237124	-0.063431	-17.663789	-0.000418128638995	-0.000423370868545	-0.00002233322224
568	minimi	0.213169	-0.070612	-19.187619	-0.00045714515137	-0.000467100811551	-0.000024757702243
569	massimi	0.229071	-0.063327	-17.51318	-0.000501168491049	-0.00041372376047	-0.000022690729222
569	minimi	0.205904	-0.070497	-19.023003	-0.000547668290699	-0.000456582726332	-0.000025154288061
570	massimi	0.220875	-0.063205	-17.338367	-0.000583401144868	-0.000424854717253	-0.000022746576347
570	minimi	0.198511	-0.070361	-18.832003	-0.000637309337706	-0.000468722335848	-0.000025217563329
571	massimi	0.318267	-0.534955	-4.749762	-0.002488342164758	-0.000757819407581	0.000038574582713
571	minimi	0.288566	-0.576709	-5.074625	-0.002669251539546	-0.000822065373992	0.000034468425065
572	massimi	0.318569	-0.523639	-4.499689	-0.002488365165815	-0.000781658974589	0.00004021496937
572	minimi	0.288847	-0.564045	-4.803368	-0.00266928689848	-0.000847811398349	0.000035962081661
573	massimi	0.318885	-0.511995	-4.24221	-0.002486027845961	-0.000804239576287	0.000039706907074
573	minimi	0.28914	-0.55103	-4.524118	-0.0026667413581	-0.000872191910156	0.00003551963316
574	massimi	0.305991	-0.500151	-4.783385	-0.00246921945047	-0.000821436085128	0.000040395029575
574	minimi	0.277607	-0.537798	-5.101511	-0.002648601420753	-0.000890745935539	0.00003615362409
575	massimi	0.292964	-0.500028	-5.581259	-0.002445702903741	-0.000827623451732	0.000040158910881
575	minimi	0.265953	-0.537662	-5.957322	-0.00262322232531	-0.0008973949804	0.000035910433047

576	massimi	0.279754	-0.49986	-6.371445	-0.002418247228547	-0.000828677268796	0.000040983155653
576	minimi	0.254133	-0.537476	-6.80484	-0.002593618182863	-0.000898512714829	0.000036687526164
577	massimi	0.266498	-0.511822	-7.421037	-0.002399747112185	-0.000810929886306	0.000040765494583
577	minimi	0.242272	-0.550839	-7.933678	-0.002573663732416	-0.000879367831066	0.000036480621097
578	massimi	0.266826	-0.523639	-7.67893	-0.002393333882321	-0.000781658974589	0.000040176642826
578	minimi	0.242576	-0.564045	-8.213372	-0.002566750643936	-0.000847811398349	0.000035927288745
579	massimi	0.267116	-0.535129	-7.928589	-0.002397432793389	-0.000751129097562	0.000039633170222
579	minimi	0.242846	-0.576899	-8.484184	-0.0027115355097	-0.000814889453082	0.000035429413002
580	massimi	0.280121	-0.546445	-7.387414	-0.002416108971745	-0.000732841032555	0.000038945047721
580	minimi	0.254474	-0.589567	-7.906791	-0.002591298963679	-0.000795158128409	0.000034795422072
581	massimi	0.292964	-0.546298	-6.59736	-0.002445702903741	-0.000732592168238	0.000040232701315
581	minimi	0.265953	-0.589404	-7.059417	-0.00262322232531	-0.000794862934488	0.000035978937359
582	massimi	0.305623	-0.546154	-5.799354	-0.002471357707272	-0.000740082216224	0.000038356921642
582	minimi	0.277266	-0.589246	-6.203463	-0.002650920639937	-0.000802924907698	0.000034261519998
583	massimi	0.328389	-0.1356	-12.173523	-0.000771875081912	-0.000967024207897	0.000000159299498
583	minimi	0.297956	-0.147047	-13.150468	-0.000830896587025	-0.001053786642596	0.000000049607175
584	massimi	0.328476	-0.135467	-11.849328	-0.000776771270912	-0.001024485338455	0.000000863759782
584	minimi	0.298036	-0.146942	-12.797228	-0.000836209312239	-0.0011161582383	0.000000822106759
585	massimi	0.32855	-0.13525	-11.508297	-0.000768841808128	-0.001080296399681	0.000000431250563
585	minimi	0.298104	-0.146745	-12.425716	-0.000827591890124	-0.001176732113323	0.00000034459379
586	massimi	0.328462	-0.134961	-11.394678	-0.000730733591136	-0.001118323132209	0.000000779105946
586	minimi	0.297986	-0.14647	-12.298791	-0.000786233674109	-0.001217999302617	0.000000726149311
587	massimi	0.328259	-0.134801	-11.622253	-0.000675119031729	-0.001125444277021	0.000000835421445
587	minimi	0.297763	-0.146293	-12.543561	-0.000725879312294	-0.001225713748504	0.000000791023012
588	massimi	0.327851	-0.134634	-11.83305	-0.000618417103701	-0.001120322009873	0.000001385131446
588	minimi	0.297354	-0.14611	-12.770124	-0.000664355825703	-0.00122014847021	0.000001376866227
589	massimi	0.327358	-0.135056	-12.38579	-0.000579841899099	-0.001082143212561	0.000001530717451
589	minimi	0.296868	-0.146531	-13.369185	-0.000622495510607	-0.001178717782813	0.000001507178991
590	massimi	0.327446	-0.135467	-12.726935	-0.000570787310113	-0.001024485338455	0.000000824805405
590	minimi	0.296949	-0.146942	-13.74082	-0.000612668367249	-0.0011161582383	0.000000779162723
591	massimi	0.327519	-0.135794	-13.051016	-0.000576808625315	-0.000965177395017	0.000001235730835
591	minimi	0.297017	-0.147261	-14.093937	-0.000619190813706	-0.001051800973107	0.000001235227926
592	massimi	0.327947	-0.136048	-13.164635	-0.000615614586472	-0.000926289949396	0.000000887372543
592	minimi	0.297442	-0.147501	-14.220862	-0.000661302533893	-0.001009598226199	0.000000854175315
593	massimi	0.328259	-0.135888	-12.954011	-0.00067511903173	-0.000919460316222	0.000000853143741
593	minimi	0.297763	-0.147324	-13.994488	-0.000725879312294	-0.001002172803514	0.00000081024647
594	massimi	0.328366	-0.135722	-12.726263	-0.000733536108365	-0.00092828882706	0.000000289612262
594	minimi	0.297897	-0.147141	-13.749529	-0.000789286965919	-0.001011747393792	0.00000019519318
595	massimi	0.360304	-0.105645	-5.092456	-0.000782305810224	-0.002235842184978	0.000032189317438
595	minimi	0.334765	-0.114892	-5.457933	-0.000850613971996	-0.002405967439779	0.000029774107547
596	massimi	0.360357	-0.095853	-4.362629	-0.000780808442303	-0.002256983374147	0.000033365169762
596	minimi	0.334813	-0.104305	-4.672539	-0.000849021276878	-0.002428919908512	0.000030863931077
597	massimi	0.360418	-0.086	-3.626937	-0.000775623383211	-0.002274489392652	0.000032398711108
597	minimi	0.33487	-0.093654	-3.880771	-0.000843422479053	-0.002447960280018	0.000029966532632
598	massimi	0.349862	-0.076075	-3.135503	-0.000762543279355	-0.002287217055929	0.000032754820476
598	minimi	0.325106	-0.082923	-3.354622	-0.000829207057344	-0.002461798363992	0.00003029661986
599	massimi	0.339204	-0.075914	-3.38047	-0.000745887180105	-0.002288905938694	0.000033336159007
599	minimi	0.315248	-0.08275	-3.620998	-0.000811076645208	-0.002463654008112	0.000030837040239
600	massimi	0.328335	-0.075729	-3.619827	-0.000728029730758	-0.002289425462379	0.000033435774843
600	minimi	0.305193	-0.082551	-3.881275	-0.000791639886706	-0.002464199781984	0.000030929482007
601	massimi	0.31736	-0.085795	-4.596411	-0.000714433688148	-0.002276529794397	0.000033624383314
601	minimi	0.295041	-0.093433	-4.934976	-0.000776863433938	-0.002450179009937	0.000031105642067
602	massimi	0.317435	-0.095853	-5.332229	-0.000708005563507	-0.002256983374147	0.000033320793857
602	minimi	0.29511	-0.104305	-5.726881	-0.000769912928426	-0.002428919908512	0.000030822689208
603	massimi	0.317475	-0.105851	-6.06193	-0.000707751261135	-0.002233801783232	0.000033414989644
603	minimi	0.295146	-0.115113	-6.512138	-0.000769671940995	-0.00240374870986	0.000030913216982
604	massimi	0.328403	-0.115799	-6.553364	-0.000721855669936	-0.002219344933853	0.000033058880276
604	minimi	0.305256	-0.125866	-7.038288	-0.000784995487186	-0.002388047825934	0.000030583129755
605	massimi	0.339204	-0.115618	-6.314388	-0.000745887180105	-0.002216103059898	0.000033349804611
605	minimi	0.315248	-0.125671	-6.778422	-0.000811076645208	-0.00238454565966	0.000030849580047
606	massimi	0.349794	-0.115453	-6.06904	-0.000768717340178	-0.002221553340302	0.000032377925909
606	minimi	0.325043	-0.125494	-6.511634	-0.000835851456864	-0.002390449243926	0.000029950267607
607	massimi	0.036269	0.032622	-12.624937	0.000009334627369	0.00018812215868	0.0000005644647084
607	minimi	0.03169	0.030251	-13.906014	0.000008535189756	0.000167369462326	0.0000005314777514
608	massimi	0.036249	0.03447	-12.668778	0.00000112185505	0.000122545280282	0.0000005746176839
608	minimi	0.031671	0.031991	-13.955456	0.000001115121278	0.000108194939479	0.0000005406183362
609	massimi	0.036231	0.036297	-12.695191	0.000008971797983	0.000056771026479	0.0000005575448221
609	minimi	0.031655	0.033711	-13.985586	0.000008214848546	0.00004884615435	0.0000005250554942
610	massimi	0.034409	0.038119	-12.695544	0.000052797905144	0.000012943993168	0.0000005573931974

610	minimi	0.029938	0.035426	-13.986877	0.00004776053987	0.000009300209965	0.000005247525562
611	massimi	0.032582	0.038136	-12.669483	0.000118574392381	0.000005078129143	0.000005746300361
611	minimi	0.028218	0.035441	-13.958037	0.000107109935261	0.000002204706129	0.000005406430153
612	massimi	0.030734	0.038155	-12.625995	0.000184159899855	0.000013295065636	0.000005639339901
612	minimi	0.026481	0.035457	-13.909884	0.000166286815915	0.000009617338719	0.000005304174049
613	massimi	0.028871	0.036318	-12.555974	0.000227903987742	0.000057095391079	0.000005693178105
613	minimi	0.024729	0.033729	-13.831468	0.000205758418063	0.000049139157508	0.00000535251842
614	massimi	0.028855	0.03447	-12.529542	0.000235563053138	0.000122545280282	0.000005741914386
614	minimi	0.024714	0.031991	-13.801318	0.000212672906452	0.000108194939479	0.000005402491737
615	massimi	0.028834	0.0326	-12.48572	0.000227541158356	0.00018779779408	0.000005762376967
615	minimi	0.024694	0.030233	-13.751896	0.000205438076853	0.000167076459169	0.000005416740991
616	massimi	0.030712	0.030721	-12.485367	0.000183824672745	0.000231513353541	0.000005763893214
616	minimi	0.02646	0.028466	-13.750604	0.000165990844689	0.000206523438272	0.000005419770371
617	massimi	0.032582	0.030742	-12.528837	0.000118574392381	0.000239526061003	0.000005741790863
617	minimi	0.028218	0.028484	-13.798737	0.000107109935261	0.000213755757531	0.000005402244946
618	massimi	0.034431	0.030757	-12.554917	0.000053133132254	0.000231864426009	0.000005698485287
618	minimi	0.029959	0.028497	-13.827598	0.000048056511096	0.000206840567026	0.000005363121885
619	massimi	-0.016098	0.026386	-18.831532	-0.000079322435632	0.000490025176241	0.000003765523458
619	minimi	-0.019343	0.023797	-21.163634	-0.000088546985429	0.000430407783442	0.000003570616842
620	massimi	-0.016113	0.027608	-18.955246	-0.000090873557792	0.000387834724859	0.000003746034045
620	minimi	-0.01936	0.024956	-21.304633	-0.000101597590068	0.000339910195926	0.000003557632206
621	massimi	-0.016126	0.028812	-19.052245	-0.000080328834306	0.000285019614283	0.000003710100999
621	minimi	-0.019373	0.026099	-21.415465	-0.000089695278	0.000248865138018	0.000003520518042
622	massimi	-0.017278	0.030007	-19.139533	-0.000019684349999	0.00021646606716	0.000003670436852
622	minimi	-0.020588	0.027234	-21.515001	-0.000021213114929	0.000188158053771	0.000003485689578
623	massimi	-0.018421	0.029995	-19.129695	0.000081774140071	0.000203855632223	0.000003749265319
623	minimi	-0.021791	0.027224	-21.503561	0.000071511669229	0.000176992344951	0.000003560469537
624	massimi	-0.019552	0.029983	-19.093098	0.000184629686987	0.000216708182245	0.000003626690633
624	minimi	-0.022981	0.027214	-21.461903	0.000162592509441	0.000188369783957	0.00000344870992
625	massimi	-0.020682	0.028798	-18.959297	0.000253055285944	0.000285243310444	0.000003631360737
625	minimi	-0.024169	0.026087	-21.309179	0.000223187528303	0.000249060760813	0.000003453957136
626	massimi	-0.020695	0.027608	-18.862285	0.000264821316522	0.000387834724859	0.000003748884865
626	minimi	-0.024184	0.024956	-21.198332	0.000233613073319	0.000339910195926	0.000003560042068
627	massimi	-0.020709	0.0264	-18.738584	0.000251906993372	0.00048980148008	0.000003686783196
627	minimi	-0.024199	0.023809	-21.057347	0.000222181129629	0.0004302121160648	0.000003504055936
628	massimi	-0.019568	0.025181	-18.651296	0.000183568750868	0.000558068338532	0.000003726447343
628	minimi	-0.022999	0.022651	-20.957811	0.00016166267263	0.000490668017706	0.0000035388844
629	massimi	-0.018421	0.025171	-18.687836	0.000081774140071	0.000570274538813	0.000003745653591
629	minimi	-0.021791	0.022642	-20.999404	0.000071511669228	0.000501478976062	0.000003557204737
630	massimi	-0.017262	0.025157	-18.697731	-0.000018754513188	0.000558310453618	0.000003770193563
630	minimi	-0.02057	0.022631	-21.010909	-0.00002015217881	0.000490879747892	0.000003575864058
631	massimi	-0.028697	0.009679	-19.153119	-0.000142469599381	0.00068019364497	0.000004699851807
631	minimi	-0.034238	0.008735	-21.531384	-0.00015773946262	0.000597029817833	0.000004436066383
632	massimi	-0.028705	0.011202	-19.330626	-0.000154465804405	0.000575884654214	0.00000468003685
632	minimi	-0.034247	0.010173	-21.733778	-0.000171299746904	0.000504674409234	0.000004424631593
633	massimi	-0.028708	0.012717	-19.480818	-0.000143963828334	0.000470648124946	0.000004677364246
633	minimi	-0.03425	0.011604	-21.905321	-0.000159444529309	0.000411506155655	0.000004415644343
634	massimi	-0.030152	0.014227	-19.641204	-0.000081936793802	0.000400460335843	0.000004638425053
634	minimi	-0.03578	0.013031	-22.087352	-0.000089387286661	0.000349364097632	0.000004382117483
635	massimi	-0.031583	0.014205	-19.651166	0.000016164058641	0.000387310110093	0.000004683209065
635	minimi	-0.037294	0.013013	-22.097576	0.000011508841795	0.000337721099708	0.000004427362887
636	massimi	-0.032994	0.014186	-19.633731	0.000121689369587	0.000400508194035	0.000004563556472
636	minimi	-0.038786	0.012997	-22.076856	0.000104935940878	0.000349398172759	0.000004318715347
637	massimi	-0.034398	0.012693	-19.465859	0.000191735431369	0.000470692343232	0.000004542605821
637	minimi	-0.040269	0.011584	-21.884312	0.000166955014612	0.000411537638514	0.00000430152475
638	massimi	-0.034403	0.011202	-19.315665	0.000203563710594	0.000575884654214	0.000004684915828
638	minimi	-0.040274	0.010173	-21.712766	0.00017743781051	0.000504674409234	0.000004428763334
639	massimi	-0.034409	0.009704	-19.138161	0.00019003036468	0.000680149427595	0.000004565093382
639	minimi	-0.040281	0.008755	-21.510375	0.000165460785659	0.000596998334973	0.000004321946789
640	massimi	-0.033	0.008196	-18.977775	0.000120114015987	0.000749935229832	0.000004604032575
640	minimi	-0.038793	0.00733	-21.328344	0.000103555385517	0.000658788711626	0.000004355473649
641	massimi	-0.031583	0.008178	-18.995125	0.000016164058641	0.000762173567591	0.000004681743613
641	minimi	-0.037294	0.007314	-21.348967	0.000011508841795	0.000669624714622	0.00000442603204
642	massimi	-0.030145	0.008156	-18.985248	-0.00008055623844	0.000749983088024	0.000004678901155
642	minimi	-0.035772	0.007295	-21.33884	-0.000087811933062	0.000658822786753	0.000004418875785
643	massimi	-0.053571	-0.001943	-19.188812	-0.000153737410281	0.000694200674192	0.000008438113433
643	minimi	-0.061272	-0.002282	-21.572491	-0.00017160379019	0.000608763863277	0.00000782281513
644	massimi	-0.053575	0.000592	-19.370093	-0.000165769807247	0.000589649297992	0.000008422906495
644	minimi	-0.061276	0.000452	-21.779393	-0.000185206192475	0.00051619979042	0.000007814669773

645	massimi	-0.053571	0.003186	-19.523994	-0.000155265763331	0.000484148213497	0.000008437205668
645	minimi	-0.061272	0.003127	-21.955366	-0.000173349610935	0.000422804309429	0.000007821625703
646	massimi	-0.056126	0.005915	-19.691676	-0.000093085619017	0.000413775539508	0.000008383237905
646	minimi	-0.064028	0.005659	-22.146246	-0.000103113830036	0.000360503909146	0.000007774049559
647	massimi	-0.05866	0.005876	-19.705215	0.000002717375561	0.000400560991811	0.000008427303025
647	minimi	-0.066761	0.005624	-22.160878	0.000000599862245	0.000348806937692	0.000007818545604
648	massimi	-0.061158	0.005842	-19.691286	0.000108544204465	0.000413783585055	0.000008249214954
648	minimi	-0.069452	0.005595	-22.144482	0.00009428437735	0.000360505685205	0.000007656288656
649	massimi	-0.06364	0.003142	-19.523214	0.000178778105725	0.000484155646978	0.000008195973342
649	minimi	-0.072126	0.003089	-21.951834	0.000156464106733	0.000422805950374	0.000007609663974
650	massimi	-0.063639	0.000592	-19.369314	0.000190630158595	0.000589649297992	0.000008431640398
650	minimi	-0.072124	0.000452	-21.77586	0.000166967150942	0.00051619979042	0.000007822343924
651	massimi	-0.063641	-0.001905	-19.188032	0.000177032284979	0.000694193240712	0.000008196881107
651	minimi	-0.072126	-0.002238	-21.568959	0.000154935753683	0.000608762222332	0.000007610853401
652	massimi	-0.061158	-0.004411	-19.02035	0.000106931197178	0.000764157435423	0.00000825084887
652	minimi	-0.069452	-0.004939	-21.378079	0.000092872293886	0.00067070542616	0.000007658429545
653	massimi	-0.05866	-0.00444	-19.034192	0.000002717375561	0.000776397342882	0.000008427243868
653	minimi	-0.066761	-0.004972	-21.394375	0.000000599862245	0.000681543895881	0.000007818468092
654	massimi	-0.056126	-0.004475	-19.02074	-0.000091673535552	0.000764165480969	0.00000838487182
654	minimi	-0.064028	-0.005012	-21.379844	-0.000101500822749	0.000670707202219	0.00000776190448
655	massimi	-0.095473	-0.017824	-19.110696	-0.000177026305327	0.000568097381107	0.000011639659593
655	minimi	-0.108247	-0.019697	-21.480018	-0.000196600420244	0.000494190527193	0.000010706428788
656	massimi	-0.09547	-0.01436	-19.254847	-0.000188809350943	0.000464063150858	0.000011590540662
656	minimi	-0.108244	-0.015932	-21.646058	-0.000209924748382	0.000402065807787	0.000010668710956
657	massimi	-0.095457	-0.010886	-19.371768	-0.000178216732978	0.000359281485439	0.00001167164247
657	minimi	-0.108229	-0.012157	-21.781346	-0.000197974408272	0.000309293508143	0.000010735255701
658	massimi	-0.098962	-0.007416	-19.510129	-0.000116390777089	0.000289344655826	0.000011591443349
658	minimi	-0.112041	-0.008385	-21.939778	-0.000128151201133	0.000247368323575	0.000010664537361
659	massimi	-0.102434	-0.007475	-19.531371	-0.000023095532281	0.000276267191803	0.000011597074152
659	minimi	-0.115814	-0.008452	-21.962694	-0.000023379185007	0.000235791366745	0.000010674472087
660	massimi	-0.105842	-0.007528	-19.52531	0.000081997334985	0.000289276275079	0.000011358945863
660	minimi	-0.119515	-0.008512	-21.954775	0.000069670062348	0.000247299102995	0.00001045889978
661	massimi	-0.109222	-0.010953	-19.402155	0.000151836517569	0.000359218306763	0.000011253162585
661	minimi	-0.123184	-0.012232	-21.811365	0.000131512189889	0.000309229553525	0.000010365121843
662	massimi	-0.109212	-0.01436	-19.285238	0.000163825347764	0.000464063150858	0.00001066591877
662	minimi	-0.123174	-0.015932	-21.676081	0.000142143770662	0.000402065807787	0.000010682111787
663	massimi	-0.109206	-0.017757	-19.141083	0.000150462529541	0.000568160559782	0.000011221179708
663	minimi	-0.123167	-0.019621	-21.510036	0.000130321762238	0.000494254481812	0.000010336294931
664	massimi	-0.105833	-0.021165	-19.002721	0.00008072787321	0.000637781593639	0.000011301378829
664	minimi	-0.119505	-0.023322	-21.351604	0.00006857019658	0.000555906818791	0.000010407013271
665	massimi	-0.102434	-0.021218	-19.008714	-0.0000233095532281	0.000650017287949	0.000011599158387
665	minimi	-0.115814	-0.023382	-21.359445	-0.000023379185007	0.00056674448835	0.000010676350656
666	massimi	-0.098972	-0.021277	-18.98754	-0.000115290911321	0.000637713212892	0.000011533876315
666	minimi	-0.112051	-0.023449	-21.336608	-0.000126881739359	0.000555837598211	0.000010612650851
667	massimi	-0.033839	0.074179	-9.979388	0.000080861158084	0.00013549125995	-0.00000239074603
667	minimi	-0.038272	0.067989	-10.536775	0.000068033116977	0.000130545436431	-0.000002826916404
668	massimi	-0.032362	0.072006	-9.926242	0.000225404193296	-0.000046463307891	-0.000002954654003
668	minimi	-0.036531	0.066135	-10.473486	0.000204044805071	-0.000052600504807	-0.000003448858909
669	massimi	-0.032362	0.076037	-9.761311	0.000225404193295	0.0003218268768	-0.000002183943381
669	minimi	-0.036531	0.069555	-10.302306	0.000204044805071	0.000305862137331	-0.000002607983637
670	massimi	-0.033773	0.076032	-9.852002	0.00014455864741	0.000270244356825	-0.000002535174067
670	minimi	-0.0382	0.069552	-10.403409	0.000127944549755	0.000257327677067	-0.000003006332647
671	massimi	-0.030825	0.074179	-9.752455	0.000369993720392	0.00013549125995	-0.000002749701638
671	minimi	-0.03472	0.067989	-10.286086	0.00034009857946	0.000130545436431	-0.000003232107064
672	massimi	-0.030779	0.072021	-9.790409	0.000309361195092	0.000005997215828	-0.000002991118061
672	minimi	-0.034671	0.066149	-10.324409	0.00028301902838	0.000003147535416	-0.000003507484019
673	massimi	-0.030899	0.076084	-9.626344	0.000308376689149	0.000268744064956	-0.000002633113701
673	minimi	-0.034802	0.069598	-10.154129	0.000282070459756	0.000255969553435	-0.000003116887334
674	massimi	-0.033893	0.072073	-10.016067	0.000143574141468	0.000004639092195	-0.000002893178428
674	minimi	-0.038331	0.066195	-10.57369	0.000126995981132	0.000001647243548	-0.000003396929333
675	massimi	0.079099	0.149622	-10.597048	0.000092632684489	0.000125253277605	0.000007630131017
675	minimi	0.069168	0.136831	-11.222052	0.000075099863799	0.000098690721445	0.000006814635051
676	massimi	0.074454	0.154656	-10.513008	0.000247699513059	-0.000076403910311	0.000007192108046
676	minimi	0.065022	0.141315	-11.138184	0.000220627877597	-0.000090437886393	0.000006397117658
677	massimi	0.074454	0.143954	-10.388322	0.000247699513059	0.000325286970165	0.000008888189496
677	minimi	0.065022	0.131767	-10.979938	0.000220627877597	0.000286540129799	0.000007948196072
678	massimi	0.07921	0.144096	-10.486498	0.000160922473046	0.000269770259543	0.000008928023439
678	minimi	0.069269	0.131894	-11.091589	0.000139065206343	0.000234214077508	0.000007975675518
679	massimi	0.069668	0.149622	-10.351672	0.000402817473997	0.000125253277605	0.000008455960027

679	minimi	0.060754	0.136831	-10.946567	0.000366201435393	0.000098690721445	0.00000753584709
680	massimi	0.069841	0.154744	-10.366532	0.000337724033379	-0.000016774624981	0.000008365493656
680	minimi	0.060911	0.141393	-10.975066	0.000304989564384	-0.00003470196557	0.000007451957433
681	massimi	0.069577	0.14399	-10.2425	0.00033681391731	0.000268121562512	0.00000915334634
681	minimi	0.06067	0.131801	-10.817652	0.000304272457309	0.000232745570274	0.000008172454253
682	massimi	0.078946	0.154638	-10.61053	0.000160012356977	-0.000018423322011	0.000008140170756
682	minimi	0.069028	0.1413	-11.249003	0.000138348099268	-0.000036170472803	0.000007255178698
683	massimi	-0.084886	0.041165	-12.589291	-0.000075132256488	0.000229207755727	0.000002256250675
683	minimi	-0.09981	0.037471	-13.446731	-0.000076322400663	0.000219222996461	0.000002213264473
684	massimi	-0.085986	0.042207	-12.641785	0.000114716182676	-0.00001237488296	0.000001523388929
684	minimi	-0.100901	0.038547	-13.496628	0.000102599810468	-0.000019688421344	0.000001462735243
685	massimi	-0.085986	0.03995	-12.364819	0.000114716182676	0.000475133093789	0.000001948153189
685	minimi	-0.100901	0.036237	-13.207047	0.000102599810468	0.000447979452703	0.000001929377508
686	massimi	-0.084872	0.0399	-12.392788	0.000007193411734	0.000406848303219	0.000002095496522
686	minimi	-0.099794	0.036196	-13.239541	0.000002568885829	0.00038449618673	0.000002085080395
687	massimi	-0.086922	0.041165	-12.475183	0.000305778427383	0.000229207755727	0.000001259527663
687	minimi	-0.1018	0.037471	-13.319147	0.000280353039669	0.000219222996461	0.000001137083493
688	massimi	-0.086894	0.042146	-12.554832	0.000224986902134	0.00005610359095	0.000001637965053
688	minimi	-0.10177	0.038495	-13.400734	0.000205191800391	0.00005386863253	0.000001562959058
689	massimi	-0.08696	0.040044	-12.27932	0.000223321433839	0.000406084751514	0.000001835273164
689	minimi	-0.101843	0.036319	-13.112674	0.000203598883307	0.000383813281682	0.000001779720007
690	massimi	-0.084938	0.04229	-12.6683	0.00000552794344	0.000055420685902	0.00000189818841
690	minimi	-0.099867	0.038618	-13.527601	0.000000975968744	0.000053105080826	0.000001868319446
691	massimi	0.051616	0.126243	-15.89367	-0.00006249594289	0.000280078641382	0.000007246429658
691	minimi	0.042961	0.114501	-17.114831	-0.000068148033487	0.000234438891019	0.000006529097479
692	massimi	0.047258	0.130971	-15.9151	0.000185302572052	-0.000042661611903	0.000006790281853
692	minimi	0.039043	0.118746	-17.14837	0.000160763507045	-0.000063543569979	0.00000609422207
693	massimi	0.047258	0.120981	-15.618907	0.000185302572052	0.000599188599456	0.000008221346158
693	minimi	0.039043	0.10977	-16.794516	0.000160763507045	0.00052938262554	0.000007392173303
694	massimi	0.051704	0.121091	-15.670598	0.000045941367328	0.00051056580195	0.000008332974413
694	minimi	0.043041	0.109868	-16.856794	0.000031887499097	0.000447241382131	0.000007494334625
695	massimi	0.042811	0.126243	-15.714874	0.000433139338823	0.000280078641382	0.000007770606828
695	minimi	0.035051	0.114501	-16.908743	0.000389708233832	0.000234438891019	0.000006962156849
696	massimi	0.042958	0.131032	-15.787441	0.00032844745443	0.000052704039001	0.000007811244619
696	minimi	0.035184	0.118798	-17.003857	0.000292860007124	0.00002427940693	0.000007009576656
697	massimi	0.042736	0.121024	-15.492805	0.000326412345434	0.000509332421244	0.000008475993269
697	minimi	0.034982	0.109812	-16.651863	0.000291156525938	0.00044617133434	0.00000761249249
698	massimi	0.051481	0.130965	-15.965233	0.000043906258331	0.000051470658295	0.000007668225764
698	minimi	0.042839	0.118743	-17.208788	0.000030184017911	0.00002320935914	0.000006891418791
699	massimi	0.12212	0.209776	-16.066798	-0.000301670817535	0.000193399567594	0.000027184535739
699	minimi	0.104991	0.193277	-17.21659	-0.00031843178648	0.000160243584496	0.000024853403671
700	massimi	0.112934	0.200365	-16.061251	-0.000143236112775	0.000363730734434	0.000028677237723
700	minimi	0.096598	0.184682	-17.201814	-0.000148100340029	0.000318678184276	0.000026194227403
701	massimi	0.122187	0.200458	-15.996034	-0.000243939593593	0.000301746803236	0.000028794578519
701	minimi	0.105051	0.184765	-17.133631	-0.000256339852447	0.000260987509704	0.000026307353464
702	massimi	0.112934	0.218895	-16.165791	-0.000143236112775	0.00002306601322	0.000026736590158
702	minimi	0.096598	0.201603	-17.327985	-0.000148100340029	0.000001807006495	0.000024406210493
703	massimi	0.10359	0.209776	-16.160243	0.00002232934733	0.000193399567594	0.000028229292142
703	minimi	0.08807	0.193277	-17.313209	0.000015200360246	0.000160243584496	0.000025747034225
704	massimi	0.103705	0.218939	-16.193669	-0.000040041319164	0.000085448269953	0.000028467110912
704	minimi	0.088175	0.201641	-17.356026	-0.000042748314527	0.000059796230639	0.000025980435896
705	massimi	0.103554	0.200377	-16.089314	-0.000040338007503	0.00030197399942	0.000029176459594
705	minimi	0.088036	0.184696	-17.230078	-0.000042994139291	0.000261207243827	0.000026633994771
706	massimi	0.122036	0.218858	-16.100389	-0.000244185418356	0.000085675466138	0.000028085229837
706	minimi	0.104912	0.201572	-17.259579	-0.000256636540786	0.000060015964762	0.000025653794589
707	massimi	-0.093824	0.010662	-12.875814	-0.000161231373775	0.000364869492016	0.000002547794428
707	minimi	-0.109938	0.009791	-13.771175	-0.000172119341692	0.000339879419384	0.00000220240317
708	massimi	-0.094897	0.011924	-13.048672	0.000024786182742	0.000107508443476	0.000001870100927
708	minimi	-0.111176	0.010885	-13.955825	0.000021694982411	0.000100783793439	0.000001620022764
709	massimi	-0.094897	0.009354	-12.619268	0.000024786182742	0.000617501344037	0.000001990959255
709	minimi	-0.111176	0.008655	-13.494848	0.000021694982411	0.000574569753569	0.000001731006063
710	massimi	-0.093834	0.009286	-12.60204	-0.000081235236011	0.000548077098925	0.000002272482486
710	minimi	-0.109951	0.008597	-13.477093	-0.000086006821722	0.000510078838665	0.000001971299388
711	massimi	-0.095789	0.010662	-12.851685	0.000221696819576	0.000364869492016	0.000001314656028
711	minimi	-0.112203	0.009791	-13.743608	0.000204625813404	0.000339879419384	0.000001149832281
712	massimi	-0.095787	0.011843	-13.005196	0.000138464286537	0.000184274958986	0.000001879885349
712	minimi	-0.112201	0.010816	-13.908236	0.000127299548357	0.000172104827696	0.00000163255646
713	massimi	-0.095804	0.009444	-12.578047	0.000135813073585	0.000547912121922	0.000001936025497
713	minimi	-0.11222	0.008732	-13.449681	0.000124829918151	0.000509934436713	0.000001684109538

714	massimi	-0.093852	0.012001	-13.029189	-0.000083704866217	0.000184109981982	0.000002216342337
714	minimi	-0.10997	0.010951	-13.935648	-0.000088658034674	0.000171960425744	0.000001919746309
715	massimi	0.032591	0.070244	-17.79	-0.00024441107463	0.000355700406064	0.000003061957356
715	minimi	0.025096	0.063791	-19.303488	-0.000259371400905	0.000306546039828	0.000002853127718
716	massimi	0.030725	0.072245	-17.932755	0.000024083980876	-0.00001368421547	0.00000283305524
716	minimi	0.023369	0.065641	-19.468647	0.000015444434304	-0.000031956909449	0.000002620092549
717	massimi	0.030725	0.067945	-17.545461	0.000024083980876	0.000720474545789	0.000003629321068
717	minimi	0.023369	0.061672	-19.019251	0.000015444434304	0.000641075631426	0.000003343216642
718	massimi	0.032644	0.068006	-17.511904	-0.000131484374015	0.000618828721034	0.000003613420263
718	minimi	0.025143	0.061725	-18.986718	-0.000136077630933	0.000547678607153	0.00000333920271
719	massimi	0.0288	0.070244	-17.772824	0.000307544334291	0.000355700406064	0.000003402747254
719	minimi	0.021598	0.063791	-19.276702	0.000275303131418	0.000306546039828	0.000003112329968
720	massimi	0.028879	0.072285	-17.880081	0.000187057448381	0.000095118953918	0.000003336526706
720	minimi	0.021669	0.065674	-19.407116	0.000164746407327	0.000067573030753	0.000003074203734
721	massimi	0.028755	0.067962	-17.494823	0.000184472856094	0.000618668417176	0.000003706402911
721	minimi	0.021556	0.061691	-18.960083	0.000162518980771	0.000547575808433	0.000003409924617
722	massimi	0.03252	0.072242	-17.897161	-0.00013371180057	0.000094958650059	0.000003243544058
722	minimi	0.025031	0.06564	-19.433751	-0.00013866222322	0.000067470232033	0.000003003301827
723	massimi	0.082105	0.193124	-20.073717	-0.000182462906522	0.000564647112215	0.000008974420074
723	minimi	0.069313	0.17783	-21.666012	-0.000187904382293	0.000475244179044	0.000007618294481
724	massimi	0.079037	0.189866	-19.913204	0.000027809485208	0.000780357322753	0.000010233306867
724	minimi	0.066709	0.175055	-21.472758	0.000016835283726	0.000674539331912	0.000008749411391
725	massimi	0.082177	0.189929	-19.895477	-0.000108675885125	0.000702541366058	0.000009844354921
725	minimi	0.069379	0.17511	-21.45672	-0.000109313564685	0.000602563210459	0.000008379065938
726	massimi	0.079037	0.196113	-20.223246	0.000027809485208	0.000348929931062	0.000008446708097
726	minimi	0.066709	0.180356	-21.841124	0.000016835283727	0.000275943159248	0.000007104304113
727	massimi	0.075859	0.193124	-20.062734	0.000243523009398	0.000564647112215	0.00000970559489
727	minimi	0.064012	0.17783	-21.64787	0.000216133266142	0.000475244179044	0.000008235421023
728	massimi	0.075947	0.196159	-20.194005	0.000165250665614	0.000428614815319	0.000009458574625
728	minimi	0.064092	0.180397	-21.806324	0.000143767432995	0.00034948221278	0.000008003316732
729	massimi	0.075808	0.189872	-19.884513	0.000164384457814	0.00070249870438	0.00001011161514
729	minimi	0.063964	0.175062	-21.43861	0.00014303837549	0.000602537383967	0.000008604639044
730	massimi	0.082038	0.196102	-20.204969	-0.000109542092925	0.000428572153641	0.000009191314406
730	minimi	0.069251	0.180349	-21.824434	-0.00011004262219	0.000349456386288	0.00000777743626
731	massimi	-0.118367	0.000053	-12.865589	-0.000174283874126	0.000356772237176	-0.0000053070657
731	minimi	-0.136788	-0.00007	-13.759176	-0.000187226362424	0.000331569486896	-0.000005831884316
732	massimi	-0.114991	-0.003902	-13.040489	0.000009624910628	0.000099535944777	-0.00000594295392
732	minimi	-0.133062	-0.00444	-13.947151	0.000008597812618	0.000092587311082	-0.000006567070833
733	massimi	-0.114991	0.004301	-12.621583	0.000009624910628	0.000609384284306	-0.000005942350903
733	minimi	-0.133062	0.004008	-13.496404	0.000008597812618	0.000566254078787	-0.000006567861948
734	massimi	-0.11836	0.004184	-12.597093	-0.000094398159085	0.000539850661875	-0.000006216869923
734	minimi	-0.13678	0.003906	-13.470248	-0.000101237230097	0.000501654928141	-0.000006861803672
735	massimi	-0.111396	0.000053	-12.856027	0.000206478168915	0.000356772237176	-0.000006582518731
735	minimi	-0.129084	-0.00007	-13.748471	0.000191481272747	0.000331569486896	-0.000007307778034
736	massimi	-0.111435	-0.003964	-13.004289	0.000123170250266	0.000176151644181	-0.000006565152402
736	minimi	-0.129127	-0.004514	-13.907982	0.0001144084163268	0.000163765942785	-0.000007264128017
737	massimi	-0.111435	0.004374	-12.587585	0.000120577873548	0.000539786598404	-0.000006564872293
737	minimi	-0.129127	0.00407	-13.459603	0.000111674914653	0.000501597701041	-0.0000072644955
738	massimi	-0.11836	-0.0038	-13.013798	-0.000096807407699	0.000176087580709	-0.000006217150032
738	minimi	-0.13678	-0.004324	-13.918626	-0.000103829606815	0.000163708715685	-0.00000686143619
739	massimi	-0.001882	0.031848	-18.091232	-0.000323247784338	0.000353724508837	-0.00000222848861
739	minimi	-0.006657	0.029648	-19.646154	-0.000349881467599	0.000304447516328	-0.000002517168931
740	massimi	-0.000405	0.030105	-18.272649	-0.00005803325975	-0.000023539952832	-0.000002425320935
740	minimi	-0.005338	0.028083	-19.85601	-0.000060322690717	-0.000040971963996	-0.000002699020911
741	massimi	-0.000405	0.033457	-17.888007	-0.00005803325975	0.000726404099685	-0.000002089237434
741	minimi	-0.005338	0.031088	-19.409111	-0.000060322690717	0.000645920839405	-0.000002337994809
742	massimi	-0.001844	0.033462	-17.812924	-0.000208366621633	0.000622195481371	-0.000002341450537
742	minimi	-0.006623	0.031088	-19.328887	-0.000224363619347	0.00055027209518	-0.000002624059549
743	massimi	0.001073	0.031848	-18.155775	0.00022922363381	0.000353724508837	-0.00000228769629
743	minimi	-0.004009	0.029648	-19.713243	0.000207169285089	0.000304447516328	-0.000002521661554
744	massimi	0.001091	0.030126	-18.259725	0.00010571925057	0.00008722532802	-0.000002513720341
744	minimi	-0.003992	0.028099	-19.840149	0.000093964661763	0.000060279345537	-0.000002792986824
745	massimi	0.001035	0.033462	-17.877105	0.000103149015558	0.00062259699141	-0.000002357605027
745	minimi	-0.004045	0.031096	-19.395599	0.00009175248351	0.000550658366682	-0.000002625285336
746	massimi	-0.0019	0.030127	-18.195544	-0.000210578799885	0.000087626838059	-0.000002497565851
746	minimi	-0.006675	0.028107	-19.773436	-0.000226933854359	0.000060665617039	-0.000002791761037
747	massimi	0.115286	0.029276	-21.797033	-0.000653777864259	0.000147228048839	-0.000000664169022
747	minimi	0.101329	0.028558	-23.532614	-0.00070889487251	0.000088172691272	-0.000003865873873
748	massimi	0.11648	0.030368	-21.910215	-0.000435152685622	0.000383913023747	-0.000000062747027

748	minimi	0.101465	0.028603	-23.638621	-0.000472211903578	0.000306800011658	-0.000003191677065
749	massimi	0.115316	0.030411	-21.742812	-0.000574599656935	0.000297382194572	-0.000000324604543
749	minimi	0.101353	0.028643	-23.457057	-0.000623138872832	0.000226794531437	-0.000003585478588
750	massimi	0.11648	0.028473	-21.967738	-0.000435152685622	-0.00008945874361	-0.000000326934443
750	minimi	0.101465	0.028143	-23.73467	-0.000472211903578	-0.000130455717613	-0.000003462507656
751	massimi	0.117512	0.029276	-22.08092	-0.000216522134989	0.00014722804884	0.000000274487552
751	minimi	0.101459	0.028558	-23.840677	-0.000235523105152	0.000088172691272	-0.000002788310848
752	massimi	0.117535	0.028513	-22.083616	-0.000296972514995	-0.000003176133311	-0.00000007807147
752	minimi	0.101483	0.028191	-23.860454	-0.000322580544949	-0.000050832610503	-0.000003290600425
753	massimi	0.117514	0.030327	-22.026196	-0.000297107778014	0.000298106600356	0.000000018494748
753	minimi	0.101463	0.02857	-23.764575	-0.000322806402979	0.000227462085813	-0.000003191605982
754	massimi	0.115294	0.02844	-21.800233	-0.000574734919954	-0.000002451727527	-0.000000421170761
754	minimi	0.101333	0.028108	-23.552937	-0.000623364730862	-0.000050165056127	-0.00000368447303
755	massimi	-0.15843	-0.0133	-12.689242	-0.000205200762452	0.000202001272956	-0.00001554835832
755	minimi	-0.181221	-0.014733	-13.554238	-0.00022176549544	0.000189980748819	-0.000016650738347
756	massimi	-0.148971	-0.024166	-12.793665	-0.000024783890998	-0.000044887437177	-0.00001629325269
756	minimi	-0.171064	-0.02641	-13.665719	-0.000027790781039	-0.000050501852561	-0.000017509604464
757	massimi	-0.148971	-0.002378	-12.553643	-0.000024783890998	0.000451886191861	-0.000016444023391
757	minimi	-0.171064	-0.002993	-13.410511	-0.000027790781039	0.000422386530268	-0.000017676608726
758	massimi	-0.158398	-0.002545	-12.510634	-0.000127044884639	0.000381775067868	-0.000017413211339
758	minimi	-0.181188	-0.003179	-13.363629	-0.000137749942139	0.000357199955933	-0.000018700401751
759	massimi	-0.139228	-0.0133	-12.716806	0.000166178201234	0.000202001272956	-0.000017200705656
759	minimi	-0.160583	-0.014733	-13.585146	0.000155627868529	0.000189980748819	-0.000018548144539
760	massimi	-0.139324	-0.024223	-12.776804	0.000083373922493	0.000023871258402	-0.00001779401304
760	minimi	-0.160688	-0.02648	-13.648232	0.000078623675095	0.000023397832734	-0.000019140526118
761	massimi	-0.139301	-0.002332	-12.538043	0.000081906141813	0.000381960043498	-0.000017864047846
761	minimi	-0.160662	-0.002935	-13.394364	0.000077243237889	0.000357364917683	-0.000019218101608
762	massimi	-0.158374	-0.024011	-12.749395	-0.000128425321844	0.000024036220152	-0.000017343176533
762	minimi	-0.181162	-0.026235	-13.617497	-0.00013921772282	0.000023582808365	-0.000018622826262
763	massimi	-0.027648	-0.005437	-17.638956	-0.000399522433544	0.000214024752183	-0.000003597777316
763	minimi	-0.028609	-0.006826	-19.137417	-0.000434476004261	0.000177901095908	-0.000004460277493
764	massimi	-0.024976	-0.007917	-17.787414	-0.000140655724346	-0.000153061810087	-0.000003712240364
764	minimi	-0.026439	-0.009871	-19.311208	-0.000152067981743	-0.000158466759257	-0.000004558441497
765	massimi	-0.024976	-0.002934	-17.562651	-0.000140655724346	0.00057833718991	-0.000003773873273
765	minimi	-0.026439	-0.003752	-19.040807	-0.000152067981743	0.000511963050511	-0.000004635823757
766	massimi	-0.02764	-0.002968	-17.442516	-0.000288215628728	0.000475107213003	-0.000003999769397
766	minimi	-0.028603	-0.003788	-18.910575	-0.000312968080947	0.000417154264866	-0.000004924155638
767	massimi	-0.022255	-0.005437	-17.79539	0.000130308649531	0.000214024752183	-0.00000389103346
767	minimi	-0.024219	-0.006826	-19.306543	0.000118181949429	0.000177901095908	-0.000004737300324
768	massimi	-0.022283	-0.007925	-17.821651	0.000008952307865	-0.000046633887385	-0.000004051153405
768	minimi	-0.024242	-0.009877	-19.34773	0.000006869577887	-0.000061094661755	-0.00000496379469
769	massimi	-0.022271	-0.00293	-17.598071	0.000007397160009	0.000476119383059	-0.000004079782722
769	minimi	-0.024232	-0.003753	-19.078751	0.000005576911945	0.000418090474518	-0.000004999739792
770	massimi	-0.027628	-0.007888	-17.666096	-0.00028950829467	-0.000045621717329	-0.00000397114008
770	minimi	-0.028594	-0.009841	-19.179555	-0.000314523228803	-0.000060158452103	-0.000004888210535
771	massimi	0.217829	-0.102698	-20.255882	-0.000833953116732	-0.000737816419508	0.000005495770708
771	minimi	0.198092	-0.112444	-21.816804	-0.000900626472728	-0.000754081505472	0.000003264373461
772	massimi	0.216553	-0.104767	-20.702247	-0.000630594562263	-0.000534416190563	0.000005927745627
772	minimi	0.196087	-0.113792	-22.284906	-0.000680970015734	-0.000534449418466	0.000003745934163
773	massimi	0.217814	-0.104705	-20.472527	-0.000761297468751	-0.000610367644505	0.000006111122708
773	minimi	0.198075	-0.113725	-22.036854	-0.000822114791226	-0.000616349335111	0.000003852058741
774	massimi	0.216553	-0.100485	-20.220908	-0.000630594562263	-0.000941174312146	0.00000687780625
774	minimi	0.196087	-0.110939	-21.792956	-0.000680970015734	-0.000973737511183	0.000004786156689
775	massimi	0.214976	-0.102698	-20.667272	-0.000427228223053	-0.000737816419508	0.000007309781169
775	minimi	0.193809	-0.112444	-22.261058	-0.000461305152108	-0.000754081505472	0.000005267717391
776	massimi	0.214968	-0.100434	-20.402701	-0.000503055295512	-0.000868609817744	0.000007121450507
776	minimi	0.193804	-0.11088	-21.989241	-0.000543176141661	-0.000895287984676	0.000004964548147
777	massimi	0.215049	-0.104846	-20.883188	-0.000501923433994	-0.000609400268746	0.000006774182789
777	minimi	0.193878	-0.113881	-22.48032	-0.000542019328374	-0.000615304679916	0.000004584324302
778	massimi	0.217895	-0.100575	-19.99204	-0.000760165607233	-0.000867642441986	0.000006458390426
778	minimi	0.198149	-0.111036	-21.545775	-0.000820957977939	-0.00089424332948	0.000004232282586
779	massimi	-0.244076	-0.046079	-11.313758	-0.000313109010594	0.000136576231665	0.00000810608452
779	minimi	-0.269541	-0.050816	-11.996185	-0.000341801435062	0.000116969840583	0.000007056982663
780	massimi	-0.247644	-0.0422	-11.446724	-0.000153079946076	-0.000085552335094	0.000006874025418
780	minimi	-0.273664	-0.046326	-12.149706	-0.000170939759773	-0.000091005791218	0.000005942701978
781	massimi	-0.247644	-0.049763	-11.298944	-0.000153079946076	0.000356934587833	0.000006297982476
781	minimi	-0.273664	-0.05092	-11.977155	-0.000170939759773	0.000323429386839	0.000005420362182
782	massimi	-0.244173	-0.049939	-11.188135	-0.000244583127366	0.000294288984756	0.000007363213569
782	minimi	-0.269649	-0.055286	-11.854738	-0.000268629398564	0.000264670936052	0.000006363601499

783	massimi	-0.250741	-0.046079	-11.484009	0.000006917544162	0.000136576231665	0.000005070666292
783	minimi	-0.277267	-0.050816	-12.1863	-0.00000011334253	0.000116969840583	0.000004310173058
784	massimi	-0.250793	-0.042415	-11.504433	-0.000062171325912	-0.000021357937542	0.000006802590461
784	minimi	-0.277323	-0.046564	-12.215429	-0.000073870746297	-0.000030965345311	0.000005856778367
785	massimi	-0.250712	-0.049586	-11.35743	-0.000063021251606	0.000295426760978	0.00000653501158
785	minimi	-0.277233	-0.054896	-12.043784	-0.000074863135856	0.000265689837231	0.000005614145244
786	massimi	-0.244092	-0.042061	-11.335138	-0.00024543305306	-0.00002022016132	0.000007630792449
786	minimi	-0.269559	-0.046173	-12.026382	-0.000269621788123	-0.000029946444132	0.000006606234622
787	massimi	-0.00753	-0.044467	-14.995808	-0.00048026071389	-0.000011494962561	-0.000002929150259
787	minimi	-0.008632	-0.049197	-16.201274	-0.000522088911188	-0.000013172913049	-0.000003698210772
788	massimi	-0.005349	-0.046347	-15.098481	-0.000261676274441	-0.00029445345005	-0.000002714308805
788	minimi	-0.006899	-0.051573	-16.312447	-0.000284446600389	-0.00032079752279	-0.000003447692689
789	massimi	-0.005349	-0.042399	-15.113004	-0.000261676274441	0.000294622440034	-0.000003218377253
789	minimi	-0.006899	-0.046612	-16.329089	-0.000284446600389	0.000271612519179	-0.000004005374689
790	massimi	-0.007559	-0.042432	-14.932005	-0.000387527742662	0.000205340167379	-0.000003296780287
790	minimi	-0.008661	-0.046649	-16.132332	-0.000421273013924	0.000189496271511	-0.000004129122965
791	massimi	-0.003158	-0.044467	-15.286838	-0.000043145852569	-0.000011494962561	-0.00000300567326
791	minimi	-0.005153	-0.049197	-16.517627	-0.000046863007624	-0.000013172913049	-0.00000375754184
792	massimi	-0.003217	-0.04636	-15.206953	-0.000138377583982	-0.000214305048533	-0.000003083512582
792	minimi	-0.005204	-0.051584	-16.430354	-0.00015040002433	-0.000233667663648	-0.000003886260318
793	massimi	-0.00313	-0.042422	-15.2214	-0.00013829405922	0.000207233454369	-0.000003317659167
793	minimi	-0.005126	-0.046641	-16.446909	-0.000150304307235	0.000191237998377	-0.00000414531112
794	massimi	-0.007473	-0.046351	-14.917559	-0.0003874442179	-0.000212563321667	-0.000003062633703
794	minimi	-0.008582	-0.051577	-16.115777	-0.000421177296829	-0.000231774376659	-0.000003870072163
795	massimi	0.074558	-0.275384	-13.325914	-0.001232510874139	-0.000162958357542	-0.000023647565035
795	minimi	0.06981	-0.298633	-14.318586	-0.001329557329722	-0.000188316037617	-0.000025672384052
796	massimi	0.083072	-0.267404	-13.745885	-0.001099180680186	-0.000019071926085	-0.000024562177301
796	minimi	0.077652	-0.289968	-14.7585	-0.001185679222785	-0.000054977896538	-0.000026669462713
797	massimi	0.074484	-0.267434	-13.372156	-0.001185755665595	-0.000072773048521	-0.000024661859437
797	minimi	0.069742	-0.290001	-14.355378	-0.001279071641418	-0.000104802766607	-0.000026776763258
798	massimi	0.083072	-0.282979	-13.62303	-0.001099180680186	-0.000306842777265	-0.000022014591076
798	minimi	0.077652	-0.306881	-14.652189	-0.001185679222785	-0.000321651853919	-0.000023906800457
799	massimi	0.091471	-0.275384	-14.043001	-0.000965836916758	-0.000162958357542	-0.000022929203342
799	minimi	0.085386	-0.298633	-15.092103	-0.001041786478542	-0.000188316037617	-0.000024903879119
800	massimi	0.091352	-0.282968	-13.965336	-0.001016436149208	-0.000255487633142	-0.0000236669462794
800	minimi	0.085276	-0.306869	-15.021402	-0.001096357056797	-0.000274122282994	-0.000025486045232
801	massimi	0.091567	-0.26749	-14.087973	-0.001016147259356	-0.000070954134426	-0.000024399282692
801	minimi	0.085474	-0.29006	-15.127525	-0.001096107067383	-0.000103116547271	-0.000026495858074
802	massimi	0.074699	-0.283024	-13.249519	-0.001185466775743	-0.000253668719047	-0.000023730661539
802	minimi	0.06994	-0.306928	-14.249255	-0.001278821652005	-0.000272436063658	-0.000025766950417
803	massimi	-0.331869	0.043232	-18.962511	-0.000319522525477	0.001170488992824	0.000016628332654
803	minimi	-0.364718	0.042227	-20.490166	-0.000369675807365	0.001061036724123	0.000015396889783
804	massimi	-0.336732	0.038213	-18.659209	-0.000131207956431	0.001374697280329	0.000015117025286
804	minimi	-0.369964	0.037569	-20.162334	-0.000165461316285	0.001249345553763	0.000014034649413
805	massimi	-0.331912	0.038099	-18.594909	-0.000250172720125	0.001301910462625	0.000016113090561
805	minimi	-0.364765	0.037466	-20.08507	-0.000294492793423	0.001182212654718	0.000014941539216
806	massimi	-0.336732	0.04819	-19.351412	-0.000131207956431	0.000966266255537	0.000014717086931
806	minimi	-0.369964	0.046825	-20.925942	-0.000165461316285	0.000872714795898	0.000013644008166
807	massimi	-0.341125	0.043232	-19.048109	0.000057108232388	0.001170488992824	0.000013205779563
807	minimi	-0.374695	0.042227	-20.59811	0.000038755217428	0.001061036724123	0.000012281767797
808	massimi	-0.341143	0.048049	-19.371332	-0.000011038241436	0.001042585014146	0.000014715887215
808	minimi	-0.374715	0.046697	-20.955078	-0.000035167344945	0.000943078176029	0.000013660106886
809	massimi	-0.341173	0.038365	-18.680355	-0.000012665945301	0.001302164291751	0.000014862073339
809	minimi	-0.374747	0.037708	-20.192823	-0.000036962956174	0.001182413936816	0.000013802894716
810	massimi	-0.331942	0.048316	-19.285885	-0.00025180042399	0.001042838843272	0.000015966904437
810	minimi	-0.364796	0.04694	-20.847325	-0.000296288404653	0.000943279458127	0.000014798751386
811	massimi	0.074415	-0.025015	-17.676013	-0.000437965183338	-0.000705817674456	-0.000003378925102
811	minimi	0.068615	-0.028282	-19.147836	-0.000478471078943	-0.00075649751497	-0.000003594577852
812	massimi	0.075553	-0.023976	-17.991871	-0.000262501819765	-0.000530348333891	-0.000003172301331
812	minimi	0.069686	-0.027177	-19.48845	-0.000287715091346	-0.000565735081928	-0.000003375924555
813	massimi	0.074418	-0.023957	-17.885313	-0.000374874224718	-0.000595747968762	-0.000003318632975
813	minimi	0.068618	-0.027156	-19.37185	-0.000409876845362	-0.000636818936817	-0.000003528876279
814	massimi	0.075553	-0.02602	-17.531407	-0.000262501819765	-0.000881278301644	-0.000002940883344
814	minimi	0.069686	-0.029347	-18.994923	-0.000287715091346	-0.000947250608989	-0.000003114291146
815	massimi	0.076585	-0.025015	-17.847265	-0.000087035215585	-0.000705817674456	-0.000002734259573
815	minimi	0.070659	-0.028282	-19.335536	-0.000096955551882	-0.00075649751497	-0.000002895637849
816	massimi	0.076582	-0.025996	-17.596613	-0.000152057969958	-0.000818564223522	-0.000002998405491
816	minimi	0.070657	-0.029321	-19.066566	-0.000167640876126	-0.000879054906053	-0.000003177765909
817	massimi	0.076603	-0.024007	-18.056261	-0.000150975196732	-0.000595345272779	-0.000003082993773

817	minimi	0.070675	-0.02721	-19.559218	-0.000166480356513	-0.000636377561928	-0.000003273398582
818	massimi	0.074438	-0.026046	-17.425665	-0.000373791451492	-0.000818161527539	-0.000003234044693
818	minimi	0.068636	-0.029375	-18.879198	-0.000408716325749	-0.000878613531164	-0.000003433243605
819	massimi	-0.01621	-0.001882	-18.566744	-0.000374391850294	-0.000526165988572	-0.000028415681462
819	minimi	-0.016664	-0.005862	-20.117666	-0.000376245012479	-0.000577025742794	-0.000031179698821
820	massimi	-0.005779	0.008555	-18.800944	-0.000173997542047	-0.000341732405506	-0.000028475895301
820	minimi	-0.007155	0.003655	-20.362644	-0.000191815861186	-0.000376626798826	-0.000031215132637
821	massimi	-0.016184	0.008525	-18.716449	-0.000301957657023	-0.000410060267084	-0.00002939526201
821	minimi	-0.016642	0.003627	-20.28204	-0.000309628969836	-0.000450851588724	-0.000032240467155
822	massimi	-0.005779	-0.012316	-18.457682	-0.000173997542047	-0.000710593076076	-0.000028421661671
822	minimi	-0.007155	-0.015372	-19.986201	-0.000191815861185	-0.000777417563333	-0.000031197722836
823	massimi	0.004661	-0.001882	-18.691881	0.000026398914214	-0.000526165988572	-0.00002848187551
823	minimi	0.002363	-0.005862	-20.231179	-0.000007384341909	-0.000577025742795	-0.000031233156652
824	massimi	0.004632	-0.012291	-18.498711	-0.000047483245328	-0.000644261277818	-0.000029399633801
824	minimi	0.002335	-0.01535	-20.019577	-0.000075427959102	-0.000705326000419	-0.00003225364349
825	massimi	0.004633	0.008529	-18.841365	-0.000046598047851	-0.00040976600826	-0.000029419457367
825	minimi	0.002339	0.003632	-20.395353	-0.000074620784012	-0.000450584664437	-0.000032260007149
826	massimi	-0.016183	-0.012287	-18.373795	-0.000301072459546	-0.000643967018994	-0.000029375438444
826	minimi	-0.016637	-0.015345	-19.906265	-0.000308821794746	-0.000705059076132	-0.000032234103496
827	massimi	0.103767	-0.102869	-13.850604	-0.000698789552888	-0.000943758915883	-0.000016112501816
827	minimi	0.094884	-0.114457	-14.950621	-0.000761768103162	-0.001027519903598	-0.000017708907871
828	massimi	0.109596	-0.097564	-14.34172	-0.000561845656482	-0.000806805726071	-0.000016124907239
828	minimi	0.100187	-0.108625	-15.485839	-0.000613285079654	-0.000879026752155	-0.000017731393537
829	massimi	0.103756	-0.097555	-14.142093	-0.000650426790148	-0.00085875816509	-0.000016514241181
829	minimi	0.094874	-0.108616	-15.268054	-0.00070934007903	-0.00093536679863	-0.000018154409703
830	massimi	0.109596	-0.10803	-13.726027	-0.000561845656481	-0.001080700454915	-0.000015173266346
830	minimi	0.100187	-0.120129	-14.815501	-0.000613285079654	-0.001176000370225	-0.000016672548719
831	massimi	0.115272	-0.102869	-14.217143	-0.000424894824044	-0.000943758915883	-0.00001518567177
831	minimi	0.10535	-0.114457	-15.350719	-0.000464794485091	-0.001027519903598	-0.000016695034384
832	massimi	0.11523	-0.107994	-13.89338	-0.000476522583362	-0.001032662371877	-0.000015827619401
832	minimi	0.105312	-0.12009	-14.998292	-0.000520782374013	-0.001123924503647	-0.000017396786307
833	massimi	0.115312	-0.097627	-14.507982	-0.000475074791783	-0.000857896254917	-0.000016175464741
833	minimi	0.105386	-0.108695	-15.667442	-0.000519206087274	-0.000934425976818	-0.000017783817002
834	massimi	0.103838	-0.108066	-13.52749	-0.000648978998569	-0.001031800461704	-0.00001616639584
834	minimi	0.094948	-0.120169	-14.598904	-0.000707763792291	-0.001122983681834	-0.000017767379007
835	massimi	0.220886	-0.07804	-17.038544	-0.000670124445797	-0.000560518306576	-0.000022869138078
835	minimi	0.198521	-0.086807	-18.501533	-0.000731830064802	-0.000616593409073	-0.000025355839757
836	massimi	0.22917	-0.070657	-17.384622	-0.000500447307332	-0.000390834619257	-0.000022277285895
836	minimi	0.205994	-0.078622	-18.881048	-0.000546880193561	-0.000431636356243	-0.000024697336497
837	massimi	0.220907	-0.070612	-17.201351	-0.000609418673141	-0.000454069955896	-0.000023127368053
837	minimi	0.19854	-0.078573	-18.680826	-0.00065666685223	-0.000500573700294	-0.00002564022227
838	massimi	0.22917	-0.085314	-17.018949	-0.000500447307332	-0.00073019507425	-0.000021555336231
838	minimi	0.205994	-0.094871	-18.478793	-0.000546880193561	-0.000801542850007	-0.000023894281508
839	massimi	0.237135	-0.07804	-17.365028	-0.000330763990804	-0.000560518306576	-0.000020963484047
839	minimi	0.213179	-0.086807	-18.858308	-0.000361923571039	-0.000616593409073	-0.000023235778248
840	massimi	0.237113	-0.085231	-17.162231	-0.000393948258689	-0.000669540370347	-0.000022166922038
840	minimi	0.213159	-0.094779	-18.635427	-0.000430801649103	-0.000735438736414	-0.00002457175993
841	massimi	0.237175	-0.070761	-17.527257	-0.000393088384763	-0.000453302235045	-0.000022430810264
841	minimi	0.213215	-0.078737	-19.03697	-0.000429855752084	-0.000499734748179	-0.000024865293907
842	massimi	0.220969	-0.08538	-16.836326	-0.000608558799215	-0.000668772649497	-0.000022863479827
842	minimi	0.198596	-0.094944	-18.279283	-0.000664720788204	-0.000734599784299	-0.000025346688292
843	massimi	0.305866	-0.523866	-5.310025	-0.002497206710261	-0.000780534163802	0.000037459528099
843	minimi	0.27749	-0.56429	-5.672632	-0.002678813723268	-0.000846591393926	0.000033479410345
844	massimi	0.293091	-0.535108	-6.36125	-0.002442183526241	-0.000725491087426	0.00003620509076
844	minimi	0.266068	-0.576876	-6.803226	-0.002619447496563	-0.000787203772955	0.00003228696265
845	massimi	0.305668	-0.535051	-5.559104	-0.002481662072571	-0.000748719358295	0.000038659982492
845	minimi	0.277306	-0.576812	-5.942811	-0.002662020510097	-0.00081226074795	0.00003453201439
846	massimi	0.293091	-0.511893	-5.852042	-0.00244218352624	-0.000835567604421	0.000041425356984
846	minimi	0.266068	-0.550917	-6.250924	-0.002619447496563	-0.000905968563658	0.00003713326491
847	massimi	0.279906	-0.523866	-6.903266	-0.002387130193265	-0.000780534163802	0.000040170919645
847	minimi	0.254276	-0.56429	-7.381517	-0.002560048932565	-0.000846591393926	0.000035940817216
848	massimi	0.279777	-0.511899	-6.641217	-0.002411771098565	-0.000818610332301	0.000041559175056
848	minimi	0.254153	-0.550921	-7.097344	-0.002586613083278	-0.000887668174769	0.000037203140224
849	massimi	0.280183	-0.535243	-7.149522	-0.002410573705067	-0.000744972879523	0.000039651054779
849	minimi	0.25453	-0.577023	-7.648668	-0.002585314353411	-0.000808242333964	0.000035431711869
850	massimi	0.306074	-0.51209	-5.050799	-0.002480464679073	-0.000814863853529	0.000040568102769
850	minimi	0.277683	-0.551132	-5.391487	-0.00266072178023	-0.000883649760783	0.000036303442746
851	massimi	0.328431	-0.135526	-12.105808	-0.000793440912639	-0.001023011099436	-0.000000562619173
851	minimi	0.297957	-0.147006	-13.07337	-0.000854296128006	-0.001114552081565	-0.000000745891034

852	massimi	0.328401	-0.135704	-12.659408	-0.0006741475324	-0.000903707243417	0.000000188407168
852	minimi	0.297892	-0.147162	-13.673363	-0.000724834768693	-0.000985079368561	0.000000093158967
853	massimi	0.328421	-0.135614	-12.425247	-0.000751763957079	-0.000949430580208	0.000000109680607
853	minimi	0.297947	-0.147062	-13.421447	-0.000809059227732	-0.001034701751893	-0.000000004866196
854	massimi	0.328401	-0.135159	-11.992012	-0.0006741475324	-0.0011423023263	0.000001453112633
854	minimi	0.297892	-0.146644	-12.946247	-0.000724834768693	-0.001244011035332	0.000001442161842
855	massimi	0.327914	-0.135526	-12.545611	-0.000554845829756	-0.001023011099436	0.000002292162634
855	minimi	0.297411	-0.147006	-13.54624	-0.000595364461235	-0.001114552081565	0.000002193188182
856	massimi	0.327906	-0.13507	-12.198057	-0.000600272583707	-0.00110092195358	0.000001602700663
856	minimi	0.297403	-0.146547	-13.167652	-0.000644655530328	-0.001199105449298	0.0000015752623
857	massimi	0.328011	-0.135829	-12.864271	-0.000598703213786	-0.000948396391175	0.000001116987834
857	minimi	0.297501	-0.147299	-13.893479	-0.000642945730197	-0.001033589805127	0.000001105608167
858	massimi	0.328527	-0.135285	-11.759034	-0.000750194587158	-0.001099887764547	0.000000567955073
858	minimi	0.298045	-0.146783	-12.695619	-0.000807349427601	-0.001197993502532	0.0000004922263
859	massimi	0.349881	-0.095894	-4.617758	-0.000786973717284	-0.002253735564901	0.000030628094332
859	minimi	0.325124	-0.104351	-4.949956	-0.000855720844494	-0.002425424681818	0.000028325135345
860	massimi	0.339351	-0.105787	-5.595861	-0.000744813845092	-0.002211557184041	0.000031715093987
860	minimi	0.315385	-0.115045	-6.005295	-0.00080990950226	-0.002379593369352	0.000029340391572
861	massimi	0.349861	-0.10566	-5.347068	-0.000774513956524	-0.002231166113903	0.000032521276382
861	minimi	0.325106	-0.114908	-5.734777	-0.000842164860442	-0.002400863066944	0.00003008178511
862	massimi	0.339351	-0.085868	-4.12556	-0.000744813845092	-0.002295886123212	0.000032680445206
862	minimi	0.315385	-0.093511	-4.422988	-0.00080990950226	-0.002471226052219	0.000030227513857
863	massimi	0.328348	-0.095894	-5.103663	-0.000702644778112	-0.002253735564901	0.000033767444861
863	minimi	0.305205	-0.104351	-5.478327	-0.000764088161627	-0.002425424681818	0.000031242770085
864	massimi	0.328384	-0.085793	-4.364416	-0.000720970913408	-0.002284709157019	0.000034021633701
864	minimi	0.305239	-0.093431	-4.682709	-0.000783984445299	-0.002459043482087	0.000031472506142
865	massimi	0.328459	-0.105887	-5.832112	-0.000717513526868	-0.002230023517849	0.000033668776939
865	minimi	0.305308	-0.115152	-6.262213	-0.000780263675756	-0.002399620609641	0.000031148243748
866	massimi	0.349936	-0.08602	-3.879373	-0.000771056569984	-0.002283566560965	0.000032874133144
866	minimi	0.325175	-0.093675	-4.155273	-0.000838444090899	-0.002457801024784	0.000030406047503
867	massimi	0.034428	0.034485	-12.672642	-0.000015566630748	0.000122368937072	0.000005395985663
867	minimi	0.029956	0.032005	-13.95978	-0.00001737968461	0.000108039246473	0.00000508813684
868	massimi	0.032596	0.032606	-12.602512	0.000118403763296	0.000258150898799	0.000005706269228
868	minimi	0.028231	0.030238	-13.881242	0.000106955803582	0.000230560353737	0.000005366758019
869	massimi	0.03444	0.032627	-12.622963	0.000032475740336	0.000208869526341	0.000005734917709
869	minimi	0.029967	0.030257	-13.903867	0.000029418128021	0.000186088188145	0.000005399125942
870	massimi	0.032596	0.036316	-12.672995	0.000118403763296	-0.00001341453531	0.000005387247137
870	minimi	0.028231	0.033728	-13.961074	0.000106955803582	-0.000014483194545	0.000005070677735
871	massimi	0.030718	0.034485	-12.602865	0.000254185749499	0.000122368937072	0.000005697530701
871	minimi	0.026466	0.032005	-13.882536	0.000229476917534	0.000108039246473	0.000005349298914
872	massimi	0.03074	0.036327	-12.623669	0.000204901006089	0.000036444260588	0.000005728529468
872	minimi	0.026486	0.033738	-13.906449	0.000185003830864	0.000030502485303	0.000005386362581
873	massimi	0.030715	0.032604	-12.553311	0.000204713283659	0.000208687886763	0.000005845138946
873	minimi	0.026463	0.030236	-13.826759	0.000184838091172	0.000185924110531	0.000005494586332
874	massimi	0.034415	0.036304	-12.693322	0.000032288017906	0.00003626262101	0.000005618308231
874	minimi	0.029944	0.033717	-13.983557	0.00002925238833	0.000030338407688	0.000005290902191
875	massimi	-0.017267	0.02762	-18.991255	-0.000116521150756	0.000387276628942	0.000003719587504
875	minimi	-0.020575	0.024967	-21.344965	-0.000130558981255	0.000339421063623	0.000003521846016
876	massimi	-0.018429	0.02639	-18.857246	0.000081656466715	0.000599489182403	0.00000374650253
876	minimi	-0.021801	0.0238	-21.192002	0.000071408763614	0.000527348442129	0.000003552087089
877	massimi	-0.017263	0.026389	-18.858549	-0.000047538065157	0.000522704975639	0.000003822976816
877	minimi	-0.020572	0.0238	-21.193808	-0.000052656739888	0.000459344860786	0.000003624572295
878	massimi	-0.018429	0.02881	-19.078678	0.000081656466715	0.000175059294519	0.000003490992712
878	minimi	-0.021801	0.026098	-21.444655	0.000071408763614	0.000151489494936	0.000003321120522
879	massimi	-0.019565	0.02762	-18.944669	0.000293870906629	0.000387276628942	0.000003517907738
879	minimi	-0.022996	0.024967	-21.291693	0.000259337796437	0.000339421063623	0.000003351361595
880	massimi	-0.019555	0.028803	-19.033086	0.000216826879969	0.000253221355781	0.000003655864129
880	minimi	-0.022985	0.026092	-21.392837	0.000191106367143	0.000220700428485	0.000003477833272
881	massimi	-0.019573	0.026405	-18.812045	0.000216232770782	0.00052257970896	0.000003749258497
881	minimi	-0.023005	0.023813	-21.140631	0.00019058567171	0.000459235314794	0.00000356225655
882	massimi	-0.017281	0.028819	-19.079589	-0.000048058760591	0.000253096089103	0.000003729582448
882	minimi	-0.020592	0.026105	-21.446014	-0.000053250849075	0.000220590882493	0.000003540149017
883	massimi	-0.030145	0.011207	-19.387444	-0.000180732879697	0.000575055953602	0.000004694230391
883	minimi	-0.035772	0.010177	-21.796924	-0.000200964985887	0.000503948180485	0.00000442080518
884	massimi	-0.031596	0.009687	-19.219311	0.000016140798488	0.000792158088791	0.000004573486338
884	minimi	-0.03731	0.008741	-21.60408	0.00001149228052	0.000696170159124	0.000004321731296
885	massimi	-0.030149	0.009679	-19.200694	-0.000110152294647	0.000713841842486	0.000004754460733
885	minimi	-0.035777	0.008734	-21.584085	-0.000121239202845	0.000626818491966	0.000004487828949
886	massimi	-0.031596	0.012711	-19.548079	0.000016140798488	0.0003579467193	0.000004469813698

886	minimi	-0.03731	0.0116	-21.979237	0.00001149228052	0.000311719980564	0.000004227581169
887	massimi	-0.033004	0.011207	-19.379946	0.000233246383604	0.000575055953602	0.000004349069645
887	minimi	-0.038797	0.010177	-21.786394	0.000203717298864	0.000503948180485	0.000004128507285
888	massimi	-0.033	0.012695	-19.521395	0.000154454981223	0.000438147658419	0.000004590402416
888	minimi	-0.038793	0.011586	-21.948067	0.000133946975294	0.000382719222026	0.000004346573834
889	massimi	-0.033008	0.009706	-19.19321	0.000153572805539	0.000713817081383	0.00000462829701
889	minimi	-0.038802	0.008757	-21.573574	0.000133173883861	0.000626800862011	0.000004380987742
890	massimi	-0.030156	0.012722	-19.528879	-0.000110925386079	0.000438122897316	0.000004716566139
890	minimi	-0.035785	0.011609	-21.958578	-0.000122121378529	0.000382701592071	0.00000445341504
891	massimi	-0.05612	0.000593	-19.430601	-0.000192108732504	0.000588800789995	0.000008446764485
891	minimi	-0.064022	0.000452	-21.847076	-0.000214955696679	0.000515456976595	0.00000782142102
892	massimi	-0.058686	-0.001932	-19.262267	0.000002713465246	0.000806466300774	0.000008139919231
892	minimi	-0.06679	-0.002269	-21.654129	0.000000598999041	0.000708161522764	0.000007552710853
893	massimi	-0.056134	-0.001947	-19.240053	-0.000121360739684	0.000727956281006	0.000008522883697
893	minimi	-0.064038	-0.002286	-21.629704	-0.000135035383179	0.000638643915351	0.000007901958454
894	massimi	-0.058686	0.003173	-19.598543	0.000002713465246	0.000371128010422	0.000008135734236
894	minimi	-0.06679	0.003117	-22.038253	0.000000598999041	0.000322746067068	0.00000754722733
895	massimi	-0.06117	0.000593	-19.43021	0.000220382593673	0.000588800789995	0.00000782888982
895	minimi	-0.069465	0.000452	-21.845306	0.000193306723191	0.000515456976595	0.000007278517163
896	massimi	-0.061171	0.003142	-19.575342	0.000141374317682	0.000451546580144	0.000008295507123
896	minimi	-0.069466	0.003089	-22.01138	0.000123351414466	0.0003939317612	0.000007701511
897	massimi	-0.061171	-0.001905	-19.239662	0.000140471056467	0.000727952118362	0.000008297036829
897	minimi	-0.069467	-0.002238	-21.627936	0.000122560667743	0.000638642996445	0.000007703515346
898	massimi	-0.056135	0.00319	-19.575733	-0.000122151486407	0.000451542417501	0.000008521353991
898	minimi	-0.064038	0.003132	-22.013147	-0.000135938644395	0.000393930842294	0.000007899954108
899	massimi	-0.09896	-0.014366	-19.322803	-0.000215020000325	0.000463395361892	0.000011735694907
899	minimi	-0.112038	-0.015939	-21.72173	-0.000239523026437	0.000401487233278	0.000010782766565
900	massimi	-0.102479	-0.017803	-19.199457	-0.000023062297706	0.000679853372649	0.000011126038368
900	minimi	-0.115864	-0.019673	-21.578097	-0.000023345542255	0.000593159357253	0.000010242299933
901	massimi	-0.098988	-0.017833	-19.169501	-0.000144775311086	0.000601561883134	0.000011742183367
901	minimi	-0.112069	-0.019707	-21.545349	-0.000160181690777	0.000523816236914	0.00001080148566
902	massimi	-0.102479	-0.010909	-19.46138	-0.000023062297706	0.000246931630482	0.000011273486518
902	minimi	-0.115864	-0.012182	-21.880409	-0.000023345542255	0.00020981015291	0.000010375198386
903	massimi	-0.105855	-0.014366	-19.338034	0.00019339871573	0.000463395361892	0.000010663829979
903	minimi	-0.119529	-0.015939	-21.736776	0.000168329204018	0.000401487233278	0.000009834731753
904	massimi	-0.105864	-0.010956	-19.446164	0.000114693669147	0.00032668652321	0.000011404289029
904	minimi	-0.11954	-0.012236	-21.862144	0.000098624916384	0.000280416009444	0.00001050353568
905	massimi	-0.105854	-0.017759	-19.184704	0.000113982788548	0.000601597262297	0.000011350393539
905	minimi	-0.119529	-0.019623	-21.560368	0.000098009007145	0.000523852050594	0.00001045495842
906	massimi	-0.098978	-0.010883	-19.430961	-0.000145391220325	0.000326721902373	0.000011796078857
906	minimi	-0.112058	-0.012153	-21.847125	-0.000160892571375	0.000280451823124	0.000010850062921
907	massimi	0.00	0.00	0.00	0.00	0.00	0.00
907	minimi	0.00	0.00	0.00	0.00	0.00	0.00
908	massimi	0.00	0.00	0.00	0.00	0.00	0.00
908	minimi	0.00	0.00	0.00	0.00	0.00	0.00
909	massimi	0.00	0.00	0.00	0.00	0.00	0.00
909	minimi	0.00	0.00	0.00	0.00	0.00	0.00
910	massimi	0.00	0.00	0.00	0.00	0.00	0.00
910	minimi	0.00	0.00	0.00	0.00	0.00	0.00

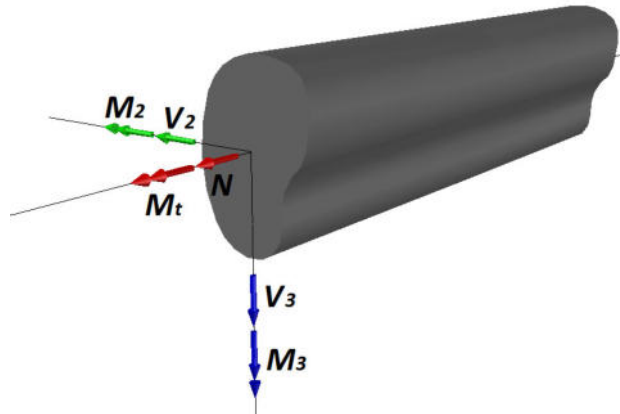
1.4.8.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N:** sforzo normale;
- **V₂:** sforzo di taglio in direzione 2;
- **V₃:** sforzo di taglio in direzione 3;
- **M_t:** momento torcente;

- M_2 : momento flettente nel piano 1-2;
- M_3 : momento flettente nel piano 1-3.



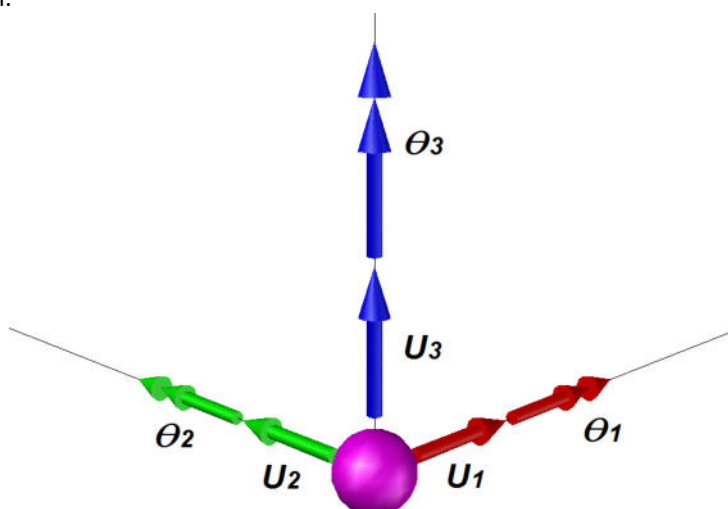
Asta I.	Asta C.	Inviluppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 23 (61-56)	53	massimi	0.00	2.18859	0.97313	-31.06338	9.78996	-8.60395	1.649
Asta 23 (61-56)	53	massimi	204.50	-2.55474	0.70183	-18.60097	9.78996	-54.13482	-0.098
Asta 23 (61-56)	53	massimi	409.00	-7.25626	0.27779	51.48309	9.78996	-50.22615	-1.058
Asta 23 (61-56)	53	minimi	0.00	2.11704	0.90082	-33.00709	9.09664	-9.28004	1.53
Asta 23 (61-56)	53	minimi	204.50	-2.95555	0.65455	-20.06303	9.09664	-57.95929	-0.099
Asta 23 (61-56)	53	minimi	409.00	-8.1341	0.24152	48.38863	9.09665	-54.31934	-1.143
Asta 25 (56-86)	55	massimi	0.00	0.45356	-3.69579	-99.31687	-1.21806	13.28604	-1.638
Asta 25 (56-86)	55	massimi	166.00	-0.03414	-0.04888	2.94564	-1.21805	-60.56855	1.585
Asta 25 (56-86)	55	massimi	332.00	-0.5221	3.75669	109.19353	-1.21804	21.54408	-1.262
Asta 25 (56-86)	55	minimi	0.00	0.41282	-4.05302	-106.35048	-1.32583	12.42017	-1.758
Asta 25 (56-86)	55	minimi	166.00	-0.06691	-0.07689	2.71005	-1.32581	-64.8334	1.433
Asta 25 (56-86)	55	minimi	332.00	-0.54715	3.32588	101.92138	-1.3258	20.01153	-1.485
Asta 26 (91-61)	56	massimi	0.00	-0.62599	3.60466	-17.79385	0.41718	-5.69496	1.182
Asta 26 (91-61)	56	massimi	166.00	-0.55188	-0.1405	-1.15946	0.41719	-19.26387	-1.512
Asta 26 (91-61)	56	massimi	332.00	-0.48201	-3.71364	17.50645	0.41719	-8.94256	1.759
Asta 26 (91-61)	56	minimi	0.00	-0.71098	3.20567	-18.68084	0.37397	-6.13851	1.02
Asta 26 (91-61)	56	minimi	166.00	-0.61593	-0.14864	-1.25506	0.37397	-20.40175	-1.682
Asta 26 (91-61)	56	minimi	332.00	-0.5256	-4.08068	16.68003	0.37398	-9.63648	1.632
Asta 34 (86-91)	64	massimi	0.00	-5.72546	-1.03881	-43.32905	-7.59526	-51.77605	-1.412
Asta 34 (86-91)	64	massimi	204.50	-1.53535	-0.55859	19.82097	-7.59526	-51.75479	0.184
Asta 34 (86-91)	64	massimi	409.00	2.67205	-0.40693	29.6314	-7.59525	-9.42122	1.286
Asta 34 (86-91)	64	minimi	0.00	-6.71575	-1.13389	-46.00752	-8.16938	-55.97172	-1.575
Asta 34 (86-91)	64	minimi	204.50	-2.01015	-0.63834	18.38088	-8.16938	-55.36266	0.167
Asta 34 (86-91)	64	minimi	409.00	2.63689	-0.47383	27.98509	-8.16938	-10.18126	1.118

Asta 48 (146-141)	78	massimi	0.00	10.93321	-0.2153	-34.30848	-4.80925	-22.87735	0.07
Asta 48 (146-141)	78	massimi	165.00	5.40491	-0.88027	-3.23557	-4.80925	-75.30552	0.555
Asta 48 (146-141)	78	massimi	330.00	-0.08244	-4.47503	259.7977	-4.80926	91.32721	5.11
Asta 48 (146-141)	78	minimi	0.00	10.02674	-0.25983	-34.92481	-4.86009	-24.9559	-0.043
Asta 48 (146-141)	78	minimi	165.00	4.94738	-1.01499	-3.55667	-4.86009	-79.92593	0.546
Asta 48 (146-141)	78	minimi	330.00	-0.09448	-5.02292	243.31136	-4.8601	85.35713	4.599
Asta 50 (156-146)	80	massimi	0.00	3.93525	0.99843	-170.91193	-8.0884	27.02995	-0.466
Asta 50 (156-146)	80	massimi	190.00	2.82339	0.30783	28.27127	-8.08841	-67.83722	-1.992
Asta 50 (156-146)	80	massimi	380.00	1.7399	-3.65306	32.86289	-8.08841	5.67384	0.629
Asta 50 (156-146)	80	minimi	0.00	3.59934	0.89543	-183.0668	-8.80152	25.32381	-0.50
Asta 50 (156-146)	80	minimi	190.00	2.568	0.25643	26.13281	-8.80152	-72.22349	-2.209
Asta 50 (156-146)	80	minimi	380.00	1.56246	-3.93767	32.14863	-8.80153	5.6336	0.578

1.4.9 Stato limite salvaguardia della vita (SLV) - Fondazione A1

1.4.9.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	5.942395	3.746894	-0.377931	0.008253515126204	0.01310014704928	0.000188211168036
1	minimi	-5.939482	-3.720593	-13.137798	-0.00798652089992	-0.012911419398605	-0.000191732041393

2	massimi	3.000222	1.951502	-0.377931	0.008253515126059	0.013100147048979	0.00018821116795
2	minimi	-3.039772	-1.865128	-13.137798	-0.00798652089978	-0.012911419398311	-0.000191732041306
3	massimi	2.820066	2.125737	15.959063	0.007908970814844	0.012459763817202	0.000157904125514
3	minimi	-2.862387	-2.036436	-29.198667	-0.007746954342621	-0.012092877526437	-0.000160556219354
4	massimi	2.815902	1.747844	2.791442	0.007942433046086	0.012413984553931	0.00016318703205
4	minimi	-2.858592	-1.665755	-16.479144	-0.007781966095161	-0.012422527567266	-0.000166325800219
5	massimi	3.14584	1.752071	13.003811	0.007947233877007	0.012382640330783	0.000156636784249
5	minimi	-3.181724	-1.670084	-26.126881	-0.007593684765858	-0.012388703969805	-0.000159868443604
6	massimi	3.141637	2.121419	12.842488	0.008005511704174	0.012491145421434	0.000151352542188
6	minimi	-3.177891	-2.032017	-25.51746	-0.007653512114322	-0.012126738504983	-0.000154097527215
7	massimi	51.842538	49.217966	-0.364054	0.014573182509247	0.017501044192292	0.002271607281659
7	minimi	-51.374792	-49.335968	-13.494633	-0.014159134504849	-0.017060213542114	-0.002246678373679
8	massimi	91.213435	83.31343	-0.364972	0.022495672942765	0.025417288977172	0.00382689181589
8	minimi	-90.440043	-83.487218	-13.669661	-0.022583316056874	-0.025362034609283	-0.003783469423071
9	massimi	120.059942	104.807122	-0.363992	0.014957777606731	0.024068482150355	0.004887277708176
9	minimi	-119.043433	-105.177787	-13.790653	-0.01444018065977	-0.023671111771872	-0.004830870528128
10	massimi	167.587626	151.746128	-0.343851	0.01740050633988	0.005075905412061	0.007046687480867
10	minimi	-165.879061	-152.521602	-13.976811	-0.017066459821081	-0.003912965568128	-0.006875369494559
11	massimi	5.990891	3.249477	-0.35143	0.00705236563294	0.013065494721588	0.000155215301609
11	minimi	-5.89519	-3.139719	-13.915413	-0.006772589538275	-0.012975920672222	-0.00014437537268
12	massimi	3.056557	1.73177	-0.35143	0.007052365632817	0.013065494721291	0.000155215301538
12	minimi	-2.98101	-1.559061	-13.915413	-0.006772589538156	-0.012975920671925	-0.000144375372614
13	massimi	2.92063	1.679995	4.145219	0.006770933724172	0.01257164416252	0.000134208521685
13	minimi	-2.835308	-1.519809	-18.245725	-0.006603160082118	-0.012286876325716	-0.000124753336769
14	massimi	2.921618	1.769135	13.619296	0.006771427922549	0.012236300638826	0.000131549002444
14	minimi	-2.837036	-1.586623	-27.932478	-0.006604389714552	-0.012350991323917	-0.00012306693385
15	massimi	3.152147	1.768442	13.842455	0.006805930600044	0.012241477843244	0.000125442286846
15	minimi	-3.08664	-1.585738	-27.563975	-0.006434345085254	-0.012353570453347	-0.000116782783698
16	massimi	3.153178	1.679767	9.20923	0.006806294429947	0.012566496636683	0.000128168369884
16	minimi	-3.088411	-1.519773	-22.718073	-0.006435444349214	-0.012284326874868	-0.000118535750412
17	massimi	51.851979	41.419564	-0.330443	0.012277569552258	0.017220940581172	0.002327988840636
17	minimi	-51.365351	-41.096606	-14.29941	-0.011769115284393	-0.017310724928935	-0.002190296814702
18	massimi	91.307095	68.477501	-0.325538	0.016580760827045	0.025594679791296	0.00392544168261
18	minimi	-90.346383	-67.979739	-14.488161	-0.016837858803073	-0.025197055634363	-0.003684919556351
19	massimi	120.20688	83.850868	-0.3204	0.012577175764932	0.023876914719738	0.005015435110119
19	minimi	-118.896494	-83.551518	-14.618857	-0.011803863331219	-0.023841603547032	-0.004702713126185
20	massimi	167.512724	130.553844	-0.320852	0.017672549117684	0.004000456860021	0.007089829515353
20	minimi	-165.953963	-130.893671	-14.789659	-0.017156887625568	-0.004997427217775	-0.006832227460074
21	massimi	5.085109	3.776037	-3.394197	0.006505405208922	0.010598976830209	0.000233488906012
21	minimi	-5.10901	-3.758741	-13.364182	-0.006377589228966	-0.010286138379271	-0.000230172950663
22	massimi	2.702023	2.345158	-3.394197	0.006505405208808	0.010598976829973	0.000233488905905
22	minimi	-2.796312	-2.299103	-13.364182	-0.006377589228854	-0.010286138379047	-0.000230172950557
23	massimi	2.52116	2.519265	11.48616	0.006182976175041	0.010099636604251	0.000194876200274
23	minimi	-2.611693	-2.477137	-27.581357	-0.006180928816407	-0.00956395789676	-0.000191865067952
24	massimi	2.517386	2.142492	-0.078068	0.006201904679682	0.010025009857174	0.000201298788874
24	minimi	-2.608115	-2.093235	-16.759903	-0.006202425836264	-0.009966692107792	-0.000198547152539
25	massimi	2.880162	2.143963	2.907203	0.006322282446624	0.010000562253035	0.000195331866959
25	minimi	-2.976756	-2.094946	-19.474872	-0.006075690550604	-0.009941057572902	-0.000192801685833
26	massimi	2.875331	2.515846	7.502978	0.00635527520541	0.010124098497888	0.000188906218464
26	minimi	-2.972123	-2.473477	-23.327873	-0.006111504139737	-0.009589606721148	-0.000186116541351
27	massimi	42.099575	49.219832	-3.469336	0.010475111438478	0.014606108693688	0.002305202732886
27	minimi	-41.03619	-49.334102	-13.729449	-0.010265730133979	-0.013673427417893	-0.002213082922452
28	massimi	74.772179	83.283073	-3.511617	0.024411763524147	0.020523102428066	0.003888986276538
28	minimi	-73.178611	-83.517576	-13.889764	-0.024395001568214	-0.020658852497702	-0.003721374962424
29	massimi	98.765313	104.808523	-3.539649	0.010899567562049	0.020188855885482	0.004969382111607
29	minimi	-97.3707	-105.176386	-14.000456	-0.010665838547092	-0.020239734492323	-0.004748766124696
30	massimi	138.029631	151.760869	-3.578373	0.013437673021447	0.004512057059933	0.007118489100992
30	minimi	-133.821171	-152.506861	-14.210759	-0.013166398477103	-0.001952591260555	-0.006803567874435
31	massimi	5.410907	3.283142	-8.940173	0.005727403022625	0.010635435934923	0.000224311460405
31	minimi	-5.313717	-3.184324	-11.846918	-0.005538005359527	-0.010380894110923	-0.000213943611471
32	massimi	3.020043	2.04256	-8.940173	0.005727403022525	0.010635435934694	0.000224311460302
32	minimi	-2.980124	-1.901127	-11.846918	-0.005538005359429	-0.010380894110701	-0.000213943611373
33	massimi	2.84686	1.993796	3.051137	0.005437420358795	0.010234386479184	0.0001918207952
33	minimi	-2.797429	-1.864194	-23.19438	-0.005409265104897	-0.009689643036047	-0.000182806328186
34	massimi	2.847739	2.079351	2.513558	0.005437681137156	0.009959483099363	0.000189347618306
34	minimi	-2.798912	-1.928313	-23.261162	-0.005411615760043	-0.010020919728496	-0.000181130049311
35	massimi	3.176893	2.078559	1.203412	0.005588718980981	0.009964004253397	0.000183070893148
35	minimi	-3.146414	-1.927419	-21.550483	-0.005250156799377	-0.010023682085617	-0.000174759568585
36	massimi	3.177967	1.993903	5.252622	0.005589022386283	0.010229870928748	0.000185534965784

36	minimi	-3.148093	-1.864402	-24.995333	-0.005252550081463	-0.009686886282523	-0.000176426743202
37	massimi	42.107811	41.422521	-9.172202	0.008686659485474	0.010826577022245	0.002358446935138
37	minimi	-41.027954	-41.09365	-12.179251	-0.008245186020049	-0.010540375391086	-0.0021598387202
38	massimi	75.246677	68.433376	-9.280998	0.018154608206636	0.022233638012389	0.003994973488362
38	minimi	-72.704114	-68.023864	-12.299038	-0.018355671091984	-0.021096046015727	-0.003615387750599
39	massimi	100.152383	83.854649	-9.355655	0.00929141509129	0.019507805494435	0.005112401649302
39	minimi	-95.983631	-83.547737	-12.38135	-0.008774086528579	-0.018246685473103	-0.004605746587002
40	massimi	137.991552	130.5734	-9.486749	0.0135302236643286	0.00265186635998	0.007151636681816
40	minimi	-133.859251	-130.874114	-12.499898	-0.013018492872374	-0.004501919261691	-0.006770420293611
41	massimi	5.426054	4.943713	4.011828	0.008826733288669	0.009864309768199	0.000419630815605
41	minimi	-5.295375	-4.66678	-25.239474	-0.009025275314403	-0.009713426788622	-0.000383915186604
42	massimi	3.953641	3.590853	4.011828	0.008826733288533	0.009864309768176	0.000419630815474
42	minimi	-3.845594	-3.343701	-25.239474	-0.009025275314264	-0.009713426788599	-0.000383915186484
43	massimi	3.725578	3.482669	1.074392	0.0086759907359	0.009871818759817	0.00039495379747
43	minimi	-3.596458	-3.257493	-19.734947	-0.009007308691824	-0.00958748653219	-0.000361963502941
44	massimi	3.72811	3.676262	10.186705	0.008675571013737	0.009556129031508	0.00038691702092
44	minimi	-3.599374	-3.408773	-31.189137	-0.009007288588788	-0.009543284892984	-0.000354738073295
45	massimi	4.154557	3.675576	10.522881	0.008708981383772	0.009562967525754	0.000375008758309
45	minimi	-4.067917	-3.40792	-31.779399	-0.00876829540473	-0.009550649233093	-0.000342475117809
46	massimi	4.157161	3.483328	4.920449	0.00870850480437	0.009865006508098	0.000383131366934
46	minimi	-4.070905	-3.258319	-25.983874	-0.008768218444454	-0.009580158434606	-0.00034978637953
47	massimi	42.109364	43.397451	4.090286	0.004197271309606	0.001492986376726	0.00235939956057
47	minimi	-41.026401	-41.370592	-25.65438	-0.003189893955289	-0.001982272971855	-0.002158886094768
48	massimi	75.810311	71.30505	4.103473	0.019543404367646	0.028768395286299	0.004017089364759
48	minimi	-72.140479	-67.141915	-25.779444	-0.021485784369757	-0.026980093086596	-0.003593271874202
49	massimi	100.128202	87.007249	4.114149	0.005700319306949	0.003369499686125	0.005149376829569
49	minimi	-96.007812	-81.643282	-25.865317	-0.004917951485152	-0.005191430815696	-0.004568771406735
50	massimi	4.05818	3.790571	-4.796658	0.006291289473198	0.008682170768555	0.000264646791568
50	minimi	-4.058447	-3.784397	-12.355948	-0.006264935421192	-0.008217479277206	-0.000262237725077
51	massimi	2.106932	2.382814	-4.796658	0.006291289473088	0.00868217076836	0.000264646791447
51	minimi	-2.211755	-2.370709	-12.355948	-0.006264935421082	-0.008217479277027	-0.000262237724957
52	massimi	2.04277	2.57689	7.503215	0.005989328602282	0.008304606281357	0.0002199648052
52	minimi	-2.144667	-2.567517	-23.693831	-0.006087547365957	-0.007618959756363	-0.000217794704899
53	massimi	2.041097	2.173318	-0.383621	0.005993321197429	0.008180545177531	0.000226527191801
53	minimi	-2.143046	-2.158672	-16.910314	-0.00609535524392	-0.007983866980057	-0.000224425292858
54	massimi	2.258189	2.173622	0.843217	0.006118649041738	0.008167101508339	0.000222306885698
54	minimi	-2.36449	-2.159245	-18.08142	-0.005965878294979	-0.00797017858063	-0.00022045118012
55	massimi	2.254427	2.574879	5.569329	0.006137992593871	0.008318048359099	0.00021574102686
55	minimi	-2.360779	-2.565238	-21.704212	-0.005989037129928	-0.007632646564339	-0.000213817119923
56	massimi	34.220868	49.223299	-4.913878	0.010449847579572	0.011770781573835	0.002287448278184
56	minimi	-32.639494	-49.330636	-12.689794	-0.010407870765349	-0.010652666355475	-0.002230837377154
57	massimi	60.188317	83.271023	-4.974054	0.024451061562559	0.016733504704843	0.003866592957438
57	minimi	-57.586693	-83.529626	-12.838063	-0.024354549768997	-0.016551569067834	-0.003743768281524
58	massimi	79.310594	104.809711	-5.014618	0.010813676807598	0.016465185649827	0.004943731717504
58	minimi	-76.464495	-105.175198	-12.94033	-0.010759301109976	-0.016170870965608	-0.004774416518799
59	massimi	111.313123	151.783106	-5.074	0.01336055103885	0.003944489632112	0.007053589783197
59	minimi	-104.726033	-152.484623	-13.132413	-0.013266171215051	-0.001157607191217	-0.00686846719223
60	massimi	4.247661	3.306562	-9.908365	0.005588733788742	0.008458973398088	0.000277953013083
60	minimi	-4.14927	-3.228697	-13.15425	-0.005583154131294	-0.008103737988388	-0.00027314646467
61	massimi	2.347014	2.05283	-9.908365	0.005588733788644	0.008458973397905	0.000277953012955
61	minimi	-2.328552	-1.973709	-13.15425	-0.005583154131196	-0.008103737988215	-0.00027314646341
62	massimi	2.27937	1.995288	0.592297	0.005291223411102	0.008183937961265	0.000235585146578
62	minimi	-2.256466	-1.921761	-22.632211	-0.005458198094389	-0.007508234235521	-0.000231366278145
63	massimi	2.277928	2.099837	-0.288685	0.005291117925509	0.007877451669122	0.000233414007875
63	minimi	-2.255363	-2.016368	-22.594666	-0.005461009214894	-0.007878658404999	-0.000229640941468
64	massimi	2.50906	2.099479	-1.434121	0.005468316046699	0.007870469282058	0.000228929454787
64	minimi	-2.494946	-2.015963	-21.437431	-0.00528768282502	-0.007871624203756	-0.000225113025026
65	massimi	2.509825	1.99523	1.830238	0.005468245104358	0.008190906775414	0.000231104152172
65	minimi	-2.496049	-1.921749	-23.858353	-0.005290528488777	-0.007515254863848	-0.000226841920385
66	massimi	34.231654	41.42881	-10.174879	0.008748176549491	0.010040191103304	0.00232240288219
66	minimi	-32.628708	-41.087361	-13.523157	-0.008650250098626	-0.009321817677078	-0.002195882773149
67	massimi	60.737769	68.420121	-10.275017	0.018226783413384	0.017956728572825	0.003915819145909
67	minimi	-57.03724	-68.037119	-13.680003	-0.018274043055609	-0.016503958108294	-0.003694542093052
68	massimi	80.805236	83.860711	-10.343781	0.009072126085992	0.01620879381601	0.005002978380175
68	minimi	-74.969852	-83.541675	-13.78815	-0.008881179816009	-0.014456676588128	-0.004715169856129
69	massimi	111.280987	130.606085	-10.408079	0.013491368209752	0.001947790291818	0.007061539436947
69	minimi	-104.758169	-130.84143	-13.977841	-0.013274561104344	-0.003678709045626	-0.00686051753848
70	massimi	4.256874	4.903062	-0.143367	0.004966103006305	0.007925648727896	0.000319558832792
70	minimi	-4.109885	-4.676634	-25.927335	-0.004968845736693	-0.007427415842362	-0.000309965486798

71	massimi	3.075161	4.166156	-0.143367	0.004966103006229	0.007925648727875	0.000319558832692
71	minimi	-3.002907	-3.940139	-25.927335	-0.004968845736617	-0.007427415842346	-0.000309965486701
72	massimi	3.071005	4.097328	-3.222482	0.004808349532825	0.007955562617417	0.000300756341298
72	minimi	-2.99311	-3.87771	-22.285851	-0.004979280423489	-0.007296037795807	-0.000291703974431
73	massimi	3.070656	4.208333	4.270984	0.004808163063524	0.007654192193992	0.000292902943512
73	minimi	-2.993111	-3.977417	-30.416936	-0.004980413542327	-0.007332439627629	-0.000284592541356
74	massimi	3.1693	4.208076	4.202768	0.004972879904531	0.007652315238207	0.000285568857992
74	minimi	-3.102815	-3.977048	-30.352229	-0.004806031275724	-0.007330569936066	-0.000277021261001
75	massimi	3.171763	4.097587	-3.526662	0.004972616440295	0.007957432158291	0.000293397249729
75	minimi	-3.105629	-3.878081	-21.985182	-0.004807087399628	-0.007297900072458	-0.000284107688027
76	massimi	34.236326	43.403332	-0.139688	0.001841720677764	0.002037204263373	0.0023122634589
76	minimi	-32.624036	-41.364711	-26.363431	-0.001088781586547	-0.002754167536134	-0.002206022196439
77	massimi	61.426363	71.330578	-0.131513	0.020984091897522	0.023260291157159	0.003938631931766
77	minimi	-56.348647	-67.116387	-26.535204	-0.022839600044671	-0.020815437356787	-0.003671729307196
78	massimi	80.773766	87.024699	-0.124487	0.00226967435236	0.002655905817411	0.005048927823518
78	minimi	-75.001322	-81.625832	-26.653741	-0.00161169981679	-0.005013764416552	-0.004669220412786
79	massimi	3.828371	3.799304	-4.973802	0.00628666056997	0.008310688002116	0.00024618630682
79	minimi	-3.85718	-3.801635	-12.175765	-0.006276021794504	-0.007859998115181	-0.000255572620672
80	massimi	1.960851	2.388769	-4.973802	0.006286660569859	0.008310688001927	0.000246186306707
80	minimi	-2.091065	-2.388706	-12.175765	-0.006276021794394	-0.007859998115008	-0.000255572620555
81	massimi	1.927903	2.575851	5.890183	0.005998376280768	0.007961586393924	0.000203669075247
81	minimi	-2.06583	-2.566205	-22.07785	-0.006111755162087	-0.007289353874742	-0.000211358744382
82	massimi	1.927796	2.185798	-0.037586	0.005988066897382	0.007818247992847	0.000210301721262
82	minimi	-2.065723	-2.195318	-17.220157	-0.006105146103354	-0.007634741087461	-0.000217991748047
83	massimi	1.981715	2.185026	-0.062632	0.006114992327381	0.007815130617631	0.000207753745713
83	minimi	-2.102484	-2.194879	-17.172612	-0.005977431399589	-0.00763152491795	-0.000215749603581
84	massimi	1.980677	2.575205	6.030295	0.006118345775373	0.0079647044435	0.000201116851669
84	minimi	-2.101446	-2.565227	-22.195464	-0.005984485172234	-0.007292570718615	-0.000209112351888
85	massimi	32.577809	49.227473	-5.095142	0.010432554265982	0.011092771161675	0.002230101444631
85	minimi	-31.038748	-49.326462	-12.50526	-0.010403039504498	-0.009962828850323	-0.002288184210708
86	massimi	56.670914	83.27273	-5.156434	0.024456926039994	0.015673283993227	0.003758438181547
86	minimi	-54.052245	-83.527919	-12.652336	-0.024352514830191	-0.015444282248412	-0.003851923057414
87	massimi	74.065652	104.8115	-5.197789	0.010805365027068	0.015483500266757	0.004799903279973
87	minimi	-71.132734	-105.173409	-12.753759	-0.010763976215919	-0.015132632303604	-0.004918244956331
88	massimi	104.73805	151.804139	-5.258957	0.01334795914761	0.003909944451988	0.0069155462917571
88	minimi	-97.917688	-152.463591	-12.943858	-0.013281221571099	-0.001085819574107	-0.007006510357856
89	massimi	3.984746	3.320581	-9.706438	0.005579479055835	0.008111554052999	0.000249072137357
89	minimi	-3.92368	-3.263764	-13.756308	-0.005662112343126	-0.007760687499072	-0.000252464387911
90	massimi	2.16277	2.047216	-9.706438	0.005579479055738	0.008111554052821	0.000249072137242
90	minimi	-2.18065	-2.008992	-13.756308	-0.005662112343027	-0.007760687498905	-0.000252464387796
91	massimi	2.12904	2.010668	0.538454	0.005285404483388	0.007854781839879	0.000210457222021
91	minimi	-2.149819	-1.969244	-22.87899	-0.005540581424346	-0.007177266602634	-0.000213162945661
92	massimi	2.128615	2.073786	-1.58292	0.005282858435657	0.007546982969714	0.000208458018914
92	minimi	-2.149557	-2.039363	-21.590681	-0.00554091611289	-0.007558296505199	-0.000211379118216
93	massimi	2.180603	2.073633	-1.9661	0.005461066957813	0.007544124735582	0.000205795326862
93	minimi	-2.195182	-2.039255	-21.382251	-0.005362094526514	-0.007556205625681	-0.000208758419046
94	massimi	2.18026	2.010694	0.634953	0.005461614697174	0.007857616927	0.000207795846455
94	minimi	-2.195002	-1.969224	-23.150239	-0.005365523002149	-0.007179334335142	-0.000210543562977
95	massimi	32.585316	41.436505	-9.966605	0.008646967581634	0.009441373026653	0.002289757116086
95	minimi	-31.031242	-41.079665	-14.141918	-0.008678538731485	-0.008646891450784	-0.00228528539252
96	massimi	57.222001	68.416389	-10.063303	0.018259273394973	0.016847341218518	0.003844866030375
96	minimi	-53.501158	-68.040852	-14.30556	-0.01824637920387	-0.015373277727803	-0.003765495208586
97	massimi	75.552681	83.86891	-10.129706	0.008995410084986	0.01529208007485	0.004905128615041
97	minimi	-69.645705	-83.533476	-14.418424	-0.008946944237082	-0.013471825499764	-0.004813019621263
98	massimi	104.705909	130.638584	-10.190445	0.013425455993855	0.001898540198144	0.006938259714234
98	minimi	-97.94983	-130.80893	-14.612839	-0.013309213408955	-0.00359135927521	-0.006983797261193
99	massimi	3.949702	4.760244	-0.783972	0.005852163683301	0.006631953356163	0.000676908875647
99	minimi	-3.833371	-4.635851	-27.638607	-0.006419718774793	-0.006642189737846	-0.000669761427429
100	massimi	2.961346	3.798293	-0.783972	0.005852163683211	0.006631953356159	0.000676908875435
100	minimi	-2.84348	-3.759033	-27.638607	-0.006419718774694	-0.006642189737837	-0.00066976142722
101	massimi	2.610608	3.700895	-3.547491	0.005683826651631	0.006668906520662	0.000628022130657
101	minimi	-2.488852	-3.665925	-24.253801	-0.006427605161797	-0.006494877791013	-0.000621594796331
102	massimi	2.610479	3.873168	2.5323	0.005683957318689	0.006392993729776	0.000621279911592
102	minimi	-2.488784	-3.829879	-30.320492	-0.006427708717422	-0.00658718317175	-0.000614981457916
103	massimi	3.295337	3.873153	3.010556	0.005842192266885	0.006390573265661	0.000613851850183
103	minimi	-3.182082	-3.829682	-31.525081	-0.006216249414875	-0.006586265898188	-0.000607166467591
104	massimi	3.295295	3.700846	-3.383709	0.005842269305647	0.006671313332344	0.000620610400152
104	minimi	-3.182101	-3.666059	-25.143916	-0.006216299342204	-0.006495781412141	-0.000613796136911
105	massimi	32.585543	43.415961	-0.78514	0.001039820370032	0.002362710791275	0.002238249660993

105	minimi	-31.031015	-41.352082	-28.131134	-0.000983177661381	-0.002813313249426	-0.002280035994345
106	massimi	57.838288	71.265427	-0.786505	0.013411732709295	0.020623042980089	0.003433430498477
106	minimi	-52.884871	-67.181538	-28.365957	-0.013774487004455	-0.018406371103116	-0.004176930740484
107	massimi	75.514657	87.058897	-0.775415	0.002860493357025	0.002842827507689	0.004858680237219
107	minimi	-69.683729	-81.591633	-28.490923	-0.003001045572963	-0.004872567373512	-0.004859467999084
108	massimi	0.93532	0.770859	-0.362494	0.000773042557881	-0.000456220816275	0.00009599015984
108	minimi	-0.791942	-0.750301	-2.658344	-0.001659755524273	-0.00163518203223	-0.000086096821848
109	massimi	32.730094	44.399969	-0.426906	0.021306086046258	0.017621048186843	0.002185486591646
109	minimi	-30.622171	-42.841437	-2.786715	-0.021585894166446	-0.01575914299504	-0.002332799063692
110	massimi	56.332572	74.306871	-0.470029	0.01025978428776	0.004910922111293	0.003674688436752
110	minimi	-53.297616	-72.68478	-2.875962	-0.010038946828027	-0.006696722588679	-0.00393567280221
111	massimi	0.918695	0.814625	0.659415	0.001186932294055	0.001218851630924	0.000101646481041
111	minimi	-0.776971	-0.812943	-1.653959	-0.001576813285069	-0.000634190908128	-0.00009157250073
112	massimi	33.36568	51.28319	0.649576	0.024693067733704	0.016181562830209	0.002239609539625
112	minimi	-29.986585	-50.513294	-1.727561	-0.024830610784215	-0.015143491169125	-0.002278676115713
113	massimi	56.323638	85.722548	0.645988	0.012682261458587	0.008877942706409	0.003767881130277
113	minimi	-53.30655	-85.05751	-1.777281	-0.012399962240725	-0.010754719748637	-0.003842480108684
114	massimi	1.014896	4.64139	-1.124368	0.003536811270707	-0.000714043542972	0.000363074533735
114	minimi	-0.87402	-4.580959	-26.287701	-0.003800943748565	-0.004029523807565	-0.000379037409968
115	massimi	32.28176	43.420635	-0.702719	0.000944011205162	0.002405502057926	0.002161039674337
115	minimi	-31.070504	-41.347408	-28.02368	-0.001266760277233	-0.002944866145365	-0.002357245981001
116	massimi	56.358415	71.255215	-1.625376	0.005494183589195	0.011249665302762	0.003632484425008
116	minimi	-53.271773	-67.19175	-28.45065	-0.005727593917891	-0.010615231250651	-0.003977876813953
117	massimi	3.679968	3.803535	-4.451184	0.006287367171461	0.008317873835039	0.000256246631575
117	minimi	-3.791958	-3.81306	-12.513649	-0.006319377656094	-0.008055065733667	-0.000283025756923
118	massimi	1.811125	2.383163	-4.451184	0.006287367171351	0.008317873834846	0.000256246631457
118	minimi	-1.982247	-2.399889	-12.513649	-0.006319377655983	-0.008055065733486	-0.000283025756793
119	massimi	1.84934	2.628069	5.689545	0.005999818884062	0.007971599757334	0.000211072101708
119	minimi	-2.043836	-2.617068	-21.875698	-0.006153513088869	-0.007480874207229	-0.000233293650003
120	massimi	1.852584	2.123248	0.417884	0.005991260007317	0.007821902339472	0.000217852094312
120	minimi	-2.047008	-2.167439	-17.228024	-0.006147111960333	-0.007813625671072	-0.000239979396662
121	massimi	1.78769	2.12143	-0.080661	0.006113163084697	0.007836408272494	0.000217157475404
121	minimi	-1.933234	-2.166058	-16.797175	-0.006018937570144	-0.007828428861359	-0.000239686688739
122	massimi	1.787916	2.628839	6.958607	0.00610493430656	0.007957138970146	0.000210373406225
122	minimi	-1.933388	-2.617401	-23.212456	-0.006012866540215	-0.007466116162777	-0.000232996865506
123	massimi	32.440346	49.232125	-4.558916	0.010294891608699	0.011030431658886	0.002199106959147
123	minimi	-31.51509	-49.32181	-12.851219	-0.01035065871749	-0.010050788141044	-0.002319178696192
124	massimi	56.039329	83.268088	-4.614879	0.024504885340367	0.01532819192936	0.0037235412903
124	minimi	-54.352131	-83.532561	-13.000414	-0.024358322000739	-0.015278435161754	-0.003886819948661
125	massimi	72.624732	104.813702	-4.652512	0.010687934050118	0.015158860096512	0.004762266401701
125	minimi	-70.85616	-105.171207	-13.103304	-0.010740444393555	-0.01497744547538	-0.004955881834603
126	massimi	103.451977	151.822279	-4.710821	0.013166284691102	0.003992841798896	0.006849755063039
126	minimi	-98.196903	-152.445451	-13.295069	-0.013188858774473	-0.001244068395665	-0.007072301912388
127	massimi	3.733807	3.32638	-9.281375	0.005493400842479	0.008136452554281	0.00025694514286
127	minimi	-3.732948	-3.289361	-13.683635	-0.00568196752185	-0.007950237817254	-0.00026178161805
128	massimi	1.906664	2.053025	-9.281375	0.005493400842382	0.008136452554096	0.000256945142742
128	minimi	-1.947704	-2.058434	-13.683635	-0.005681967521751	-0.007950237817075	-0.00026178161793
129	massimi	1.939513	1.974867	0.3089	0.00520563330563	0.00788359217022	0.00021679080647
129	minimi	-1.984712	-1.975261	-22.249361	-0.005559388052827	-0.007370805948832	-0.00022078984432
130	massimi	1.940858	2.118515	-0.400992	0.005205179702615	0.007565443305261	0.000213414755123
130	minimi	-1.986034	-2.128853	-21.981599	-0.005560464137481	-0.00772465756799	-0.000217392458968
131	massimi	1.866103	2.118596	-1.258091	0.00537074359542	0.007575793589279	0.000212810302334
131	minimi	-1.902461	-2.129038	-21.523275	-0.005378486913008	-0.007736758932184	-0.00021688439502
132	massimi	1.86584	1.974971	1.090226	0.005370285116161	0.007873276545389	0.000216132252653
132	minimi	-1.902175	-1.975262	-23.429462	-0.005379557321418	-0.007358739243824	-0.000220236819455
133	massimi	32.437067	41.444541	-9.529915	0.008388469205963	0.009294322343426	0.00226433105203
133	minimi	-31.51837	-41.071629	-14.065754	-0.008627922570336	-0.008730151694938	-0.002253954603308
134	massimi	56.498111	68.409337	-9.618961	0.018330676667044	0.01647280119096	0.003781672879096
134	minimi	-53.893349	-68.047903	-14.230254	-0.018223243784341	-0.015253355801472	-0.003828688359865
135	massimi	73.989213	83.877814	-9.679979	0.008829739786821	0.014958702369216	0.004815418147202
135	minimi	-69.491679	-83.524572	-14.343733	-0.0089958638903	-0.013315276628831	-0.004902730089102
136	massimi	103.417119	130.667187	-9.73285	0.013118866799102	0.002022221210867	0.006869969426928
136	minimi	-98.23176	-130.780328	-14.54278	-0.013168562887772	-0.003709710117468	-0.007052087548499
137	massimi	3.4901	4.522752	-0.594351	0.007711511791995	0.005137534986436	0.000884676804372
137	minimi	-3.405976	-4.528393	-25.998671	-0.00853759071745	-0.00620703144382	-0.000869226123955
138	massimi	2.722411	3.242511	-0.594351	0.007711511791876	0.005137534986447	0.000884676804095
138	minimi	-2.477863	-3.372064	-25.998671	-0.008537590717318	-0.006207031443806	-0.000869226123684
139	massimi	2.204993	3.167435	-2.691967	0.007526641077588	0.005183533070027	0.000816487943217
139	minimi	-1.952168	-3.305557	-23.809931	-0.008513981690575	-0.006065385251448	-0.000802929071971

140	massimi	2.20488	3.304419	3.167044	0.007528640410876	0.004935110831967	0.000814618765982
140	minimi	-1.951854	-3.424543	-28.300244	-0.008513148423123	-0.006159648494746	-0.000800634599908
141	massimi	3.226077	3.304671	3.883447	0.007659444513858	0.004936860446382	0.000806556219351
141	minimi	-2.991629	-3.424416	-30.073829	-0.008301911745042	-0.006163586009607	-0.000791769254107
142	massimi	3.226873	3.167051	-2.275719	0.007661411111148	0.005181819959847	0.000808433481454
142	minimi	-2.992223	-3.305553	-25.283361	-0.008301045741923	-0.006061484240822	-0.000794071811039
143	massimi	32.429662	43.42547	-0.594204	0.000233087271422	0.002472636705393	0.002260016864538
143	minimi	-31.525774	-41.342573	-26.488946	-0.001275089102438	-0.003103810031709	-0.0022582687908
144	massimi	56.918715	71.245394	-0.634063	0.008257077337536	0.018898678591896	0.003733839693947
144	minimi	-53.472745	-67.201571	-26.728082	-0.009225215550699	-0.017049028322172	-0.003876521545014
145	massimi	73.938003	87.135697	-0.61911	0.002670745236139	0.002830673109957	0.004879352345372
145	minimi	-69.542888	-81.514834	-26.848476	-0.003828219517977	-0.004883226294794	-0.004838795890932
146	massimi	1.424296	0.77091	-0.246433	0.0016620312642	-0.000459539295335	0.000146453964441
146	minimi	-1.301453	-0.750277	-2.639025	-0.000917004063361	-0.001578136279618	-0.000145743008089
147	massimi	33.314786	43.720644	-0.299877	0.021031022701837	0.017825268639367	0.002191349021088
147	minimi	-31.365771	-43.520762	-2.772726	-0.021672679297476	-0.016018889312877	-0.00232693663425
148	massimi	57.287172	74.305647	-0.335049	0.010065199158868	0.005029205894595	0.003688109637767
148	minimi	-54.273539	-72.686005	-2.865846	-0.010807788735996	-0.006558401418434	-0.003922251601194
149	massimi	1.385757	0.814318	0.981089	0.001663378949065	0.001202862285606	0.000167767749404
149	minimi	-1.263633	-0.812329	-1.919333	-0.001333526697103	-0.000634045694295	-0.000168334248241
150	massimi	34.01282	50.861437	0.988522	0.02461014596522	0.01633078713659	0.002235055988966
150	minimi	-30.667737	-50.935048	-2.006869	-0.024849474873586	-0.015290396805555	-0.002283229666372
151	massimi	57.276561	85.722717	0.997372	0.012303509696164	0.00910505735244	0.00376388195468
151	minimi	-54.284151	-85.057341	-2.066613	-0.012833414392993	-0.010975498611214	-0.003846479284282
152	massimi	1.623795	4.460227	-0.386305	0.000392590217278	0.000152439668749	0.00173236239864
152	minimi	-1.506726	-4.491013	-25.135144	-0.001787522495731	-0.003986207729375	-0.001699269221742
153	massimi	32.785008	43.42714	-0.492043	0.000613864340725	0.002304647944349	0.00224128319119
153	minimi	-31.895549	-41.340903	-25.504997	-0.001967335925154	-0.003076568684867	-0.002277002464148
154	massimi	57.319139	71.240366	-0.348649	0.000697616629161	0.01370927685571	0.003569834793563
154	minimi	-54.241573	-67.2066	-26.471549	-0.001255179749454	-0.0126359973376	-0.004040526445398
155	massimi	4.068446	3.802482	-1.129431	0.008045768784835	0.008831215373722	0.000208919471218
155	minimi	-4.343674	-3.816196	-14.250218	-0.008243076565407	-0.008699470453368	-0.000200786633617
156	massimi	2.086691	1.948877	-1.129431	0.008045768784694	0.008831215373521	0.000208919471122
156	minimi	-2.391562	-2.006985	-14.250218	-0.008243076565262	-0.008699470453179	-0.000200786633525
157	massimi	2.055174	1.897561	9.30227	0.00788093239827	0.008431976854154	0.000174478098552
157	minimi	-2.350708	-1.964049	-23.929295	-0.007989292729717	-0.008091676524216	-0.000167488364082
158	massimi	2.058155	2.000456	6.698241	0.007665207005172	0.008336546060408	0.000174501601183
158	minimi	-2.35344	-2.04927	-21.638068	-0.007966678167828	-0.008426698060873	-0.000167184458725
159	massimi	2.091663	1.996912	-1.147859	0.007824519006949	0.008357644094121	0.000174677529748
159	minimi	-2.402063	-2.046505	-14.209229	-0.007902903880124	-0.008449628343357	-0.000168076429113
160	massimi	2.094778	1.900193	10.15314	0.007801170143809	0.008410587476159	0.000174632581069
160	minimi	-2.404929	-1.965902	-25.197425	-0.00788063668975	-0.008068454897449	-0.000168358888422
161	massimi	34.381875	49.2371	-1.123006	0.013318335187949	0.011336389530807	0.002334749201629
161	minimi	-33.983186	-49.316835	-14.648931	-0.013450350671893	-0.010151330893067	-0.002183536453709
162	massimi	59.564271	83.260861	-1.114529	0.022885184201904	0.016657603540643	0.003914740589677
162	minimi	-58.101757	-83.539788	-14.833452	-0.022698582266842	-0.016451642811127	-0.003695620649284
163	massimi	76.990298	104.816551	-1.10694	0.014281528698725	0.014949838441234	0.004992473847408
163	minimi	-75.180436	-105.168358	-14.961123	-0.014435262753816	-0.014501687246746	-0.004725674388896
164	massimi	109.243396	151.832942	-1.116166	0.017179400949363	0.003990064475574	0.006963680033626
164	minimi	-105.744108	-152.434788	-15.122937	-0.017268105595103	-0.00238198553403	-0.006958376941801
165	massimi	4.262725	3.329406	-5.565545	0.006670365425859	0.00854896861403	0.000339998461034
165	minimi	-4.282577	-3.30633	-14.189801	-0.007020986433313	-0.008564563136269	-0.000343871412933
166	massimi	2.345085	1.75381	-5.565545	0.006670365425742	0.008548968613844	0.000339998460878
166	minimi	-2.361428	-1.809624	-14.189801	-0.00702098643319	-0.008564563136083	-0.000343871412775
167	massimi	2.427717	1.97686	-0.137977	0.006341848310464	0.008299998231356	0.000280062574403
167	minimi	-2.44761	-2.028233	-18.752656	-0.006826189168132	-0.008030642395582	-0.000283436682422
168	massimi	2.429115	1.521081	5.094609	0.006342057436256	0.007932347280752	0.000286380591985
168	minimi	-2.448769	-1.580457	-23.948215	-0.00682627025748	-0.008231312941511	-0.000289440220233
169	massimi	2.254191	1.521661	2.896661	0.006499835630416	0.007945628427537	0.0002881212067
169	minimi	-2.267004	-1.58108	-22.491751	-0.006690636850502	-0.008247850047928	-0.000291219218193
170	massimi	2.253758	1.976859	0.331325	0.006499935834234	0.008286660778168	0.000281804453062
170	minimi	-2.266332	-2.02819	-19.963441	-0.006690609017877	-0.008014048982762	-0.000285216944326
171	massimi	34.315461	41.452683	-5.681313	0.010348546439424	0.009570199064503	0.002217204216317
171	minimi	-34.049601	-41.063487	-14.60717	-0.010827477453852	-0.009516550933757	-0.002301081439021
172	massimi	59.287541	68.415351	-5.690612	0.017219807463698	0.017357688609605	0.003727262623036
172	minimi	-58.378487	-68.041889	-14.822885	-0.017012944201809	-0.016754345176122	-0.003883098615925
173	massimi	77.037651	83.887214	-5.695565	0.011402738610445	0.014266693042091	0.004755894000259
173	minimi	-75.133083	-83.515172	-14.972396	-0.01174982593396	-0.013375118872417	-0.004962254236045
174	massimi	109.181583	130.684055	-5.696165	0.017451647193056	0.003019272192288	0.006873558443586

174	minimi	-105.805921	-130.763459	-15.148289	-0.017518683425661	-0.003833126570424	-0.007048498531841
175	massimi	4.249253	4.203562	0.564624	0.005526811015986	0.006656647219791	0.000245100453564
175	minimi	-4.199993	-4.340086	-18.461354	-0.006966337713233	-0.007000494812133	-0.000278246481209
176	massimi	3.254199	3.159875	0.564624	0.0055268110159	0.006656647219796	0.000245100453487
176	minimi	-3.153362	-3.512327	-18.461354	-0.006966337713126	-0.007000494812129	-0.000278246481122
177	massimi	3.313118	3.118503	-3.249502	0.005416486767576	0.006651279240721	0.000225944651563
177	minimi	-3.232601	-3.449996	-13.783792	-0.006947909857884	-0.006878409464632	-0.000257093547779
178	massimi	3.31397	3.181516	4.534603	0.00541863970481	0.006459135983035	0.000220945100907
178	minimi	-3.232905	-3.552591	-21.127855	-0.006949152102111	-0.006909218920007	-0.000250936971829
179	massimi	3.174204	3.18192	5.546641	0.005466616165494	0.006459049388863	0.000223781176528
179	minimi	-3.054263	-3.552837	-23.98214	-0.006771273903288	-0.006912944965289	-0.000253442021668
180	massimi	3.175119	3.118157	-0.965719	0.005468717456485	0.00665140396177	0.000228740281758
180	minimi	-3.05463	-3.449807	-17.909822	-0.006772464501271	-0.006874721546228	-0.000259558152191
181	massimi	34.303949	43.434168	0.566328	0.000185870645474	0.001642329118198	0.002088167730933
181	minimi	-34.061113	-41.333875	-18.744318	-0.002788613640552	-0.003006626338269	-0.002430117924405
182	massimi	59.788931	71.220155	0.543531	0.006645698294345	0.021929923429206	0.003388606728361
182	minimi	-57.877097	-67.226811	-18.883058	-0.008941204999892	-0.020518667765018	-0.0042217545106
183	massimi	76.989942	87.222487	0.54049	0.002297898909064	0.00182892002396	0.004427843795789
183	minimi	-75.180793	-81.428043	-18.958584	-0.004683241875495	-0.004500488736345	-0.005290304440515
184	massimi	4.12826	5.064117	-5.333744	0.009101216332553	0.004706114408893	0.000389415330572
184	minimi	-4.348706	-4.983807	-19.153748	-0.009196843838255	-0.003380801269064	-0.000368823772242
185	massimi	3.460709	3.687121	-5.333744	0.009101216332413	0.004706114408926	0.00038941533045
185	minimi	-3.879951	-3.621156	-19.153748	-0.009196843838113	-0.003380801269131	-0.000368823772127
186	massimi	3.391659	3.503275	-5.847873	0.008897216167434	0.004755946863234	0.000362856149433
186	minimi	-3.797214	-3.4501	-17.503977	-0.009147769663035	-0.00329282247887	-0.00034317108469
187	massimi	3.393768	3.84799	-2.542058	0.008897585598292	0.004512828330147	0.000352559245073
187	minimi	-3.799426	-3.769672	-22.505873	-0.009151649234535	-0.003365727950472	-0.000333090730056
188	massimi	3.507932	3.844409	-0.272011	0.009046758035577	0.004510911520429	0.000351597540088
188	minimi	-3.937979	-3.766743	-24.8983	-0.008981034253521	-0.003364064413723	-0.000333505307668
189	massimi	3.510159	3.506861	-2.258796	0.009041857640791	0.004760007946045	0.000361871632407
189	minimi	-3.940308	-3.453035	-21.215434	-0.008979643999377	-0.003296630288712	-0.000343562850262
190	massimi	34.368026	44.343578	-5.424564	0.004977008857624	0.002960229522163	0.002264663168441
190	minimi	-33.997035	-43.729504	-19.478242	-0.003972903557367	-0.000643758510195	-0.002253622486897
191	massimi	59.246464	74.757045	-5.465212	0.022522570932145	0.022562389621491	0.003850483291147
191	minimi	-58.419564	-72.506459	-19.591698	-0.023640822981359	-0.022993647619203	-0.003759877947815
192	massimi	77.006405	92.371906	-5.492134	0.007929851336281	0.003303583975577	0.004932309064701
192	minimi	-75.164329	-90.981984	-19.669622	-0.004705568850239	-0.000643904446431	-0.004785839171603
193	massimi	4.234495	4.530864	-0.49323	0.007328561503721	0.004417532940281	0.000514435921833
193	minimi	-4.288351	-4.507645	-22.365243	-0.007647665047566	-0.005344963268545	-0.000519689363963
194	massimi	3.589862	3.38467	-0.49323	0.007328561503608	0.004417532940329	0.000514435921672
194	minimi	-3.504604	-3.409316	-22.365243	-0.007647665047448	-0.005344963268576	-0.000519689363801
195	massimi	3.656926	3.636828	0.948838	0.007176026878803	0.004352626670647	0.000465974258398
195	minimi	-3.575093	-3.658202	-23.985993	-0.007638571170958	-0.005119267011734	-0.000470973641397
196	massimi	3.657976	3.111103	-4.572839	0.007173535383041	0.004347777813891	0.000474403141697
196	minimi	-3.576105	-3.138858	-17.277429	-0.007633623341829	-0.005407725874458	-0.000479321616487
197	massimi	3.524777	3.111362	0.173195	0.007260308690352	0.004353679463855	0.000477840830792
197	minimi	-3.436696	-3.138984	-22.431839	-0.007428700105543	-0.005414472681906	-0.000482479418913
198	massimi	3.524396	3.636613	4.594653	0.007257875955048	0.004346732439396	0.000469407575667
198	minimi	-3.436276	-3.658119	-28.040183	-0.0074283811036872	-0.005112527622999	-0.0004741217071996
199	massimi	34.324044	41.843163	-0.512061	0.004892161753842	0.002087550407433	0.002011467710873
199	minimi	-34.041017	-40.508979	-22.723844	-0.004833037761658	-0.003819970745	-0.002506817944465
200	massimi	59.644604	69.315561	-0.507344	0.019813144136516	0.022470576447822	0.003305047645452
200	minimi	-58.021425	-66.858831	-22.844499	-0.020582097939327	-0.020931789525152	-0.00430531359351
201	massimi	77.018019	85.256297	-0.502506	0.005005072073607	0.001993469191494	0.004181683499682
201	minimi	-75.152715	-82.389384	-22.927385	-0.004618820402599	-0.003963702391877	-0.005536464736621
202	massimi	3.187585	5.077426	-1.154195	0.009840939932537	0.008582735366925	0.000296288267627
202	minimi	-3.302544	-5.043149	-23.002085	-0.010157766411722	-0.009249340995761	-0.000336061822428
203	massimi	1.901125	3.567146	-1.154195	0.009840939932385	0.008582735366856	0.000296288267534
203	minimi	-1.916093	-3.580394	-23.002085	-0.010157766411565	-0.009249340995682	-0.000336061822323
204	massimi	1.957215	3.693385	6.130983	0.009550321746048	0.008514969675159	0.000268077278575
204	minimi	-1.995798	-3.682947	-30.287888	-0.010019091316437	-0.00901594482015	-0.000304558759436
205	massimi	1.959788	3.419804	4.694064	0.009548495861063	0.008388979112345	0.00027207855722
205	minimi	-1.99835	-3.456649	-27.997875	-0.010015499901904	-0.009200894082122	-0.00030851654934
206	massimi	1.833447	3.417701	-8.142601	0.009833440134288	0.008397302678047	0.00027551146975
206	minimi	-1.824723	-3.45457	-15.566671	-0.009990430753296	-0.009210056774419	-0.00031199859937
207	massimi	1.835989	3.695524	-1.290596	0.009831727182477	0.008506583174493	0.000271501547672
207	minimi	-1.827244	-3.685063	-23.271771	-0.009986952271937	-0.009006719192891	-0.000308032166034
208	massimi	37.495635	44.342508	-1.187633	0.003259942480488	0.002611064328015	0.002103108549711
208	minimi	-40.479628	-43.730574	-23.367797	-0.004472113886745	-0.002806078181624	-0.002415177105627

209	massimi	63.901188	73.545672	-1.222861	0.023786017062928	0.022365525842412	0.003497762532576
209	minimi	-69.413432	-73.717832	-23.473101	-0.023264405261517	-0.024110481279245	-0.004112598706385
210	massimi	81.942062	92.400801	-1.246156	0.003671309986188	0.00621567813055	0.004445365271775
210	minimi	-88.945879	-90.953089	-23.545123	-0.007398926732413	-0.006361111677676	-0.005272782964529
211	massimi	3.04613	4.542724	0.221875	0.007486997507301	0.005308199934589	0.000271691935251
211	minimi	-3.103103	-4.557447	-18.573119	-0.008195675291135	-0.006532554608822	-0.000293699930069
212	massimi	2.250682	3.317168	0.221875	0.007486997507186	0.005308199934582	0.000271691935166
212	minimi	-2.124001	-3.438193	-18.573119	-0.008195675291008	-0.006532554608792	-0.000293699929977
213	massimi	2.278055	3.401188	5.606239	0.007252325909175	0.005285589609122	0.000242841845258
213	minimi	-2.164977	-3.508624	-24.120702	-0.008068292371298	-0.006375751689655	-0.000263436372795
214	massimi	2.279095	3.21428	5.542026	0.007254066302844	0.005169176201953	0.000251080998548
214	minimi	-2.165829	-3.34809	-22.48961	-0.008066790016539	-0.006490399623178	-0.000271278228138
215	massimi	2.209759	3.214665	-4.793284	0.007491701668016	0.005174787125081	0.000255609102315
215	minimi	-2.070504	-3.348279	-13.061237	-0.008074729830246	-0.006497887505506	-0.000275390467991
216	massimi	2.21076	3.401036	-2.674522	0.00749346686291	0.005279889126347	0.000247387182815
216	minimi	-2.071318	-3.50867	-16.746877	-0.008073252100093	-0.006368174247679	-0.000267565846438
217	massimi	37.487809	41.850502	0.189323	0.004522306728212	0.000320756155871	0.002295027989252
217	minimi	-40.487454	-40.50164	-18.815713	-0.005955668091726	-0.002272483014134	-0.00223257666086
218	massimi	63.882267	69.161913	0.144771	0.020103739131689	0.024138046070305	0.003828199461146
218	minimi	-69.432352	-67.012479	-18.924411	-0.020162112165984	-0.025170211803348	-0.003782161777815
219	massimi	81.924562	85.270664	0.114994	0.00428555536611	0.002047172863859	0.004873059160726
219	minimi	-88.963379	-82.375017	-18.99888	-0.005673346263736	-0.003404090410833	-0.004845089075578
220	massimi	3.821097	4.555105	-4.127611	0.004395852709198	0.00680403537191	0.000227811380265
220	minimi	-3.676644	-4.55156	-18.008968	-0.005015743001011	-0.007512849036068	-0.000257859753007
221	massimi	2.800962	3.808758	-4.127611	0.00439585270913	0.006804035371898	0.000227811380194
221	minimi	-2.550187	-3.898196	-18.008968	-0.005015743000934	-0.007512849036037	-0.000257859752927
222	massimi	2.688684	3.790397	0.011087	0.004250399883461	0.006727402341744	0.000209853779705
222	minimi	-2.45668	-3.861474	-22.001012	-0.005003954582934	-0.007284058717433	-0.000237975592941
223	massimi	2.689838	3.806628	-5.67703	0.004249894601411	0.006673260643956	0.000208634095324
223	minimi	-2.457695	-3.913835	-15.405784	-0.0050015719818	-0.007512623762581	-0.00023646230208
224	massimi	2.895033	3.806491	-7.490672	0.004407880373643	0.006677428068658	0.000208150251866
224	minimi	-2.627289	-3.913308	-14.385453	-0.004877086527921	-0.007518432989542	-0.000235155218651
225	massimi	2.896218	3.790216	1.14626	0.004407463044766	0.006723227581139	0.000209379273213
225	minimi	-2.628336	-3.861682	-23.929495	-0.00487479187996	-0.007278242154569	-0.000236677846478
226	massimi	35.122666	41.847915	-4.221847	0.002543168066068	0.00341736049861	0.002038646556571
226	minimi	-37.113213	-40.504227	-18.297453	-0.003220919121175	-0.004204795972104	-0.002479639098767
227	massimi	60.297543	69.176804	-4.275601	0.021196045098645	0.021509398154722	0.003378546357985
227	minimi	-63.938859	-66.997589	-18.416521	-0.021575519857114	-0.0222981574717	-0.004231814880976
228	massimi	78.061236	85.265605	-4.311867	0.002342613388529	0.005137483668168	0.004287704671909
228	minimi	-82.377076	-82.380077	-18.498242	-0.003116311632181	-0.005282023825941	-0.005430443564395
229	massimi	3.710503	3.92206	0.678547	0.001055361064124	0.005121923120755	0.000524774050801
229	minimi	-3.531819	-4.116044	-8.776307	-0.004306559129268	-0.0061397790235466	-0.000477799182675
230	massimi	2.943089	3.291502	0.678547	0.001055361064108	0.005121923120774	0.000524774050637
230	minimi	-2.611725	-3.973166	-8.776307	-0.004306559129201	-0.006139790235458	-0.000477799182526
231	massimi	3.243085	3.192306	-2.074364	0.001029330885113	0.005089748170419	0.000475761354634
231	minimi	-2.885413	-3.899388	-4.52727	-0.004279161992318	-0.0060495654609	-0.000434334056091
232	massimi	3.244494	3.373036	4.460599	0.001033959979957	0.00499796304923	0.000477766054758
232	minimi	-2.885762	-4.024761	-9.759609	-0.004281095228636	-0.006042850812574	-0.000434101001749
233	massimi	2.622438	3.373488	4.585505	0.001044645131499	0.004990925841289	0.000487367111136
233	minimi	-2.320638	-4.024698	-14.045264	-0.004200803848073	-0.0060444245224	-0.00044261426129
234	massimi	2.623897	3.191976	-2.080345	0.00104923986643	0.005096790254295	0.000485146792529
234	minimi	-2.321039	-3.899573	-8.682038	-0.004202693724479	-0.00604799662701	-0.000442631697149
235	massimi	35.123836	43.443065	0.726989	0.000731882153578	0.003091667356959	0.001999604838107
235	minimi	-37.112043	-41.324978	-9.199255	-0.003468425987647	-0.005068454857274	-0.002518680817231
236	massimi	60.627524	71.213942	0.7425	0.011216854019548	0.021748860821992	0.003044731992333
236	minimi	-63.608879	-67.233023	-9.351345	-0.012886926221169	-0.021763971100657	-0.004565629246628
237	massimi	78.055815	87.253061	0.746417	0.001729943597192	0.004186418571337	0.00418476155004
237	minimi	-82.382498	-81.39747	-9.420245	-0.00438959666791	-0.00653381825829	-0.005533386686264
238	massimi	2.690413	3.844284	4.261572	0.002496908007414	0.003003094387393	0.000695980054165
238	minimi	-2.724626	-4.041129	-3.995649	-0.003856325366132	-0.003776065308061	-0.000625301446358
239	massimi	37.484766	43.444238	4.442459	0.001339719386089	0.001699848434334	0.002171134743315
239	minimi	-40.490496	-41.323806	-4.307109	-0.003773811644143	-0.003406784581999	-0.002347150912023
240	massimi	64.041909	71.332541	4.468857	0.020756105040665	0.0230163564203	0.003671912894641
240	minimi	-69.272711	-67.114424	-4.391833	-0.021374487117865	-0.024057120370602	-0.00393844834432
241	massimi	81.907623	87.259455	4.489155	0.002877911549913	0.004309698322638	0.004694028347865
241	minimi	-88.980318	-81.391076	-4.449559	-0.005164613365304	-0.006247311765929	-0.005024119888439
242	massimi	3.799063	3.291004	-5.917682	0.010957597981089	0.003799151585239	0.000346402166023
242	minimi	-3.627061	-3.33118	-10.123551	-0.01184434579615	-0.005125997212232	-0.000344585148633
243	massimi	3.230982	1.516214	-5.917682	0.01095759798092	0.003799151585285	0.000346402165915

243	minimi	-2.859953	-1.689403	-10.123551	-0.011844345795968	-0.005125997212245	-0.000344585148525
244	massimi	3.237641	1.528817	0.01148	0.010738131189981	0.003781660200431	0.000316649976022
244	minimi	-2.866897	-1.702223	-16.190029	-0.011713902604377	-0.004988673469299	-0.000315876498305
245	massimi	3.238331	1.49933	-0.186144	0.010741526475637	0.003702254175017	0.000315615793828
245	minimi	-2.867317	-1.671151	-14.294364	-0.011713783690544	-0.005108483927405	-0.000314273776569
246	massimi	3.204924	1.499543	-0.147545	0.01083963364791	0.003705037714204	0.000318879480122
246	minimi	-2.836341	-1.670788	-15.467785	-0.011613839994553	-0.005113616050826	-0.000316319455594
247	massimi	3.205639	1.528662	-0.628951	0.010843034472695	0.003779609414523	0.000319914984249
247	minimi	-2.836787	-1.702644	-16.684422	-0.011613726619848	-0.004984274099158	-0.000317923499264
248	massimi	35.120815	42.774925	-6.02034	0.010969338176085	0.001296657906909	0.00242249675549
248	minimi	-37.115064	-40.488456	-10.288915	-0.012195614261397	-0.003047304216714	-0.002095788899848
249	massimi	60.54428	70.606484	-6.082683	0.016804502257	0.022892050413022	0.004164202401184
249	minimi	-63.692123	-66.384353	-10.374206	-0.017786836726651	-0.023134059614695	-0.003446158837777
250	massimi	78.053963	86.632798	-6.124868	0.010265748871105	0.001457446192622	0.005355479712156
250	minimi	-82.38435	-80.92212	-10.432324	-0.011612438065417	-0.003384514198018	-0.004362668524148
251	massimi	2.736139	1.324885	-1.058096	0.005765831605291	-0.000286232603406	0.000516390336107
251	minimi	-2.772054	-1.302654	-5.407732	-0.006723597235579	-0.002726409971223	-0.000473458313801
252	massimi	2.816604	0.327106	-1.058096	0.005765831605202	-0.000286232603323	0.000516390335945
252	minimi	-2.400622	-0.448541	-5.407732	-0.006723597235475	-0.002726409971246	-0.000473458313653
253	massimi	2.818018	0.599767	2.809589	0.005643117694098	-0.000278279502065	0.000473149309865
253	minimi	-2.377978	-0.746008	-10.539094	-0.006626033083946	-0.002653953233921	-0.000434649851117
254	massimi	2.818124	0.122591	3.476468	0.005649572545462	-0.000285439733746	0.000474578338089
254	minimi	-2.377896	-0.218414	-7.350517	-0.006624508840543	-0.002715773760609	-0.000435680236218
255	massimi	2.804856	0.121124	0.063506	0.00570632480192	-0.000290325075906	0.000474228698621
255	minimi	-2.415879	-0.216301	-5.163263	-0.006617722755868	-0.002713425095981	-0.000433965018683
256	massimi	2.80494	0.598981	-1.79743	0.005712781822036	-0.000273413038062	0.000472799535296
256	minimi	-2.415775	-0.745868	-7.157783	-0.006616200681217	-0.002656283020393	-0.000432934498482
257	massimi	37.48422	42.804503	-1.094735	0.009499691393661	-0.000213375043748	0.002320831568394
257	minimi	-40.491043	-40.458878	-5.80909	-0.011049886114279	-0.001966654262154	-0.002197454086944
258	massimi	64.082733	70.731158	-1.146231	0.016950324956052	0.024414834289401	0.00397763766353
258	minimi	-69.231887	-66.259679	-5.908938	-0.017762349724418	-0.0252329228085	-0.003632723575432
259	massimi	81.911254	86.480834	-1.180664	0.010940842799797	0.000873102524845	0.005109304651768
259	minimi	-88.976687	-81.074084	-5.977243	-0.011595525565159	-0.003312942005248	-0.004608843584535
260	massimi	167.587626	158.799037	5.45338	0.01740050633988	0.005073776146993	0.007046687480867
260	minimi	-165.879061	-159.797224	-18.272923	-0.017066436821081	-0.003921813753249	-0.006875369436559
261	massimi	138.029631	158.720436	2.268789	0.013437673021447	0.004507714790956	0.007118489100992
261	minimi	-133.821171	-159.875825	-16.746544	-0.013166398477103	-0.001964585601108	-0.006803567874435
262	massimi	167.512724	131.447904	4.282908	0.017672549117684	0.00400912106783	0.007089829515353
262	minimi	-165.953963	-131.452849	-18.108059	-0.017156887625568	-0.004995113975395	-0.006832227460074
263	massimi	137.991552	131.54781	-4.259232	0.013530223643286	0.002664115641584	0.007151636681816
263	minimi	-133.859251	-131.352943	-15.338274	-0.013018492872374	-0.004497831933766	-0.006770420293611
264	massimi	111.280987	131.463368	-5.915969	0.013491368209752	0.00196007049794	0.007061539436947
264	minimi	-104.758169	-131.437385	-16.235685	-0.013274561104344	-0.003674652642218	-0.00686051753848
265	massimi	111.313123	158.827042	0.032747	0.01336055103885	0.003939228151783	0.007053589783197
265	minimi	-104.726033	-159.769219	-14.632142	-0.013266171215051	-0.001168682320417	-0.00686846719223
266	massimi	104.73805	159.027531	-0.196525	0.01334795914761	0.00390494292978	0.006915546617571
266	minimi	-97.917688	-159.568731	-14.350855	-0.013281221571099	-0.001097154661428	-0.007006510357856
267	massimi	104.705909	131.335604	-5.79299	0.013425455993855	0.001911714204603	0.006938259714234
267	minimi	-97.94983	-131.565149	-16.825558	-0.013309213408955	-0.003588196672138	-0.006983797261193
268	massimi	103.451977	159.1312	0.457295	0.013166284691102	0.003988379383222	0.006849755063039
268	minimi	-98.196903	-159.465061	-14.905707	-0.013188858774473	-0.001255942589522	-0.007072301912388
269	massimi	103.417119	131.275429	-5.118228	0.013118866799102	0.002035674947031	0.006869969426928
269	minimi	-98.23176	-131.625324	-16.979594	-0.013168562887772	-0.003706827244102	-0.007052087548499
270	massimi	109.243396	158.99376	3.865015	0.017179400949363	0.003987623336219	0.006963680033626
270	minimi	-105.744108	-159.602501	-18.024319	-0.017268105595103	-0.002390521844865	-0.006958376941801
271	massimi	109.181583	131.296964	-0.893567	0.017451647193056	0.003028170470824	0.006873558443586
271	minimi	-105.805921	-131.603789	-18.903579	-0.017518683425661	-0.00383104739877	-0.007048498531841
272	massimi	6.03289	2.642634	-6.312524	0.011064720829553	0.006787149891035	0.000211447831451
272	minimi	-5.982245	-2.622068	-9.633578	-0.01092949428647	-0.006659336719793	-0.000203705544483
273	massimi	5.025803	1.005093	-6.312524	0.011064720829383	0.006787149891095	0.000211447831385
273	minimi	-4.99433	-0.964243	-9.633578	-0.010929494286301	-0.006659336719854	-0.000203705544419
274	massimi	4.892205	1.013894	0.036011	0.010855149207719	0.006731867561532	0.000201636809012
274	minimi	-4.856199	-0.977759	-15.843488	-0.01082195108544	-0.0065056869521	-0.000194519413681
275	massimi	4.891879	1.001683	-2.202392	0.010855748999635	0.006635531931663	0.000202150953667
275	minimi	-4.855938	-0.956389	-13.768655	-0.010822889395245	-0.006609982519921	-0.000195167660807
276	massimi	5.126582	1.001985	2.423934	0.010936392973596	0.006630085641953	0.000186311448273
276	minimi	-5.099786	-0.956641	-18.221924	-0.010702921806104	-0.006604178077734	-0.000179224834814
277	massimi	5.126258	1.011695	0.599639	0.010936992641435	0.006737315557975	0.000185799169055
277	minimi	-5.099525	-0.97561	-16.234059	-0.010703859991832	-0.00651149310102	-0.000178578453125

278	massimi	51.846359	41.591854	-6.39645	0.015574555114546	0.003700792725245	0.002264858021486
278	minimi	-51.370971	-42.010136	-9.767603	-0.01529798814761	-0.003673456757159	-0.002253427633852
279	massimi	5.285667	2.838241	-10.787836	0.010888515377752	0.005322573419577	0.000185387749179
279	minimi	-5.246054	-2.820374	-12.096245	-0.010804326357539	-0.004927784073731	-0.00018022274885
280	massimi	4.493204	1.218639	-10.787836	0.010888515377584	0.005322573419642	0.000185387749121
280	minimi	-4.51281	-1.188143	-12.096245	-0.010804326357373	-0.004927784073802	-0.000180222748794
281	massimi	4.377909	1.221757	-3.266725	0.010648113329071	0.005316146164934	0.000176661123292
281	minimi	-4.394355	-1.194449	-19.207786	-0.010711935067428	-0.004780012473898	-0.00017184102835
282	massimi	4.377514	1.209848	-4.435471	0.010648093289383	0.005166747577325	0.000177367017031
282	minimi	-4.394007	-1.176367	-18.544276	-0.010712960641857	-0.004925337534622	-0.000172647034033
283	massimi	4.579388	1.210041	-2.963746	0.010797007908968	0.005162425467244	0.000163498581507
283	minimi	-4.601977	-1.17659	-19.908259	-0.010566328976711	-0.004920792446821	-0.000158842960764
284	massimi	4.578994	1.221356	-4.34126	0.01079698690806	0.005320467466919	0.000162791973788
284	minimi	-4.60163	-1.194017	-18.02551	-0.01056735358992	-0.004784556753603	-0.0001580362411
285	massimi	42.102745	41.6594	-10.946694	0.014376595350271	0.002717423914866	0.002250433428633
285	minimi	-41.033019	-41.94259	-12.293466	-0.014181020919034	-0.00250052012174	-0.002267852226705
286	massimi	4.187592	2.830847	-11.256461	0.010803171146641	0.004450489056649	0.000166640552524
286	minimi	-4.133772	-2.81947	-12.111985	-0.010795436967462	-0.003861230881468	-0.000160274933176
287	massimi	3.526993	1.212225	-11.256461	0.010803171146475	0.004450489056696	0.000166640552472
287	minimi	-3.561562	-1.199687	-12.111985	-0.010795436967296	-0.003861230881525	-0.000160274933126
288	massimi	3.501085	1.217719	-3.526746	0.010563075237115	0.004453851089873	0.000157109824116
288	minimi	-3.531744	-1.209035	-19.254064	-0.010705218132795	-0.00372302477005	-0.000151193316402
289	massimi	3.50068	1.202798	-4.766423	0.01056237378524	0.004311462362177	0.000157923170686
289	minimi	-3.531359	-1.186489	-18.768495	-0.010706077352891	-0.003881735575674	-0.000152047822552
290	massimi	3.568616	1.202908	-3.996602	0.010714639670749	0.00430585275775	0.000148673058068
290	minimi	-3.606846	-1.186652	-19.528418	-0.010555703517369	-0.003876105486988	-0.000142911193028
291	massimi	3.568292	1.217521	-4.392573	0.010713939661192	0.004459459488137	0.000147857849231
291	minimi	-3.606542	-1.208783	-18.378338	-0.010556564179782	-0.003728653652573	-0.000142054824612
292	massimi	34.224779	41.782318	-11.427996	0.014358572268612	0.002469902668284	0.002262901027362
292	minimi	-32.635583	-41.819672	-12.303946	-0.014319238562047	-0.002160790511696	-0.002255384627976
293	massimi	3.940355	2.835139	-11.181284	0.010807480478745	0.004190715353696	0.000178349044303
293	minimi	-3.91903	-2.833757	-12.239443	-0.010810497647662	-0.003589988485116	-0.000167463557897
294	massimi	3.318568	1.214245	-11.181284	0.010807480478578	0.00419071535374	0.000178349044248
294	minimi	-3.387351	-1.213314	-12.239443	-0.010810497647496	-0.003589988485172	-0.000167463557844
295	massimi	3.315706	1.217173	-3.786988	0.010567295048273	0.004199793174824	0.000165907008173
295	minimi	-3.377787	-1.222773	-19.031376	-0.010720365251428	-0.003457332186226	-0.000155807317309
296	massimi	3.315623	1.208888	-4.526066	0.010566242192007	0.004053905023325	0.000166711217689
296	minimi	-3.377706	-1.201434	-19.061084	-0.010720903442388	-0.003613225136248	-0.00015661458049
297	massimi	3.300553	1.208792	-4.261693	0.010719258885388	0.004052279763936	0.000161350414489
297	minimi	-3.375581	-1.201445	-19.329317	-0.010570539995939	-0.003611607867941	-0.000151479579172
298	massimi	3.30045	1.21799	-4.187873	0.010718207236596	0.004201416911074	0.000160543930504
298	minimi	-3.37548	-1.223483	-18.634352	-0.010571079394373	-0.003458947931393	-0.000150670041521
299	massimi	32.580307	41.792746	-11.351287	0.014326981613132	0.002326370194123	0.002283753344375
299	minimi	-31.03625	-41.809245	-12.433674	-0.014319399329834	-0.00199528585288	-0.002234532310963
300	massimi	3.746038	2.810966	-11.153445	0.010800143709416	0.004173784157893	0.000174539540927
300	minimi	-3.798747	-2.823148	-12.153526	-0.010836295738728	-0.003717293601638	-0.000159889244549
301	massimi	3.127103	1.18654	-11.153445	0.010800143709249	0.004173784157931	0.000174539540873
301	minimi	-3.248286	-1.204145	-12.153526	-0.010836295738561	-0.003717293601687	-0.000159889244499
302	massimi	3.137644	1.184247	-4.054699	0.01056131103261	0.004187205897507	0.000160568612453
302	minimi	-3.249726	-1.210601	-18.722106	-0.010746429570875	-0.003587599097323	-0.000146959876617
303	massimi	3.138125	1.183241	-3.978005	0.010560143917316	0.004033159790693	0.000161396069808
303	minimi	-3.250179	-1.191981	-19.382998	-0.010746471487625	-0.003733701367211	-0.000147729538883
304	massimi	3.101262	1.182906	-4.262025	0.010710907574204	0.004040347699294	0.000159691827071
304	minimi	-3.230769	-1.191834	-19.145244	-0.010595781985786	-0.003740985025792	-0.000146423111917
305	massimi	3.10131	1.186007	-3.624664	0.010709740990756	0.004180023099248	0.000158861531257
305	minimi	-3.23079	-1.212173	-19.198407	-0.010595824434382	-0.003580320549083	-0.000145650611192
306	massimi	32.438993	41.846316	-11.323165	0.014251446569082	0.002268690305221	0.002296999240197
306	minimi	-31.516444	-41.755675	-12.346391	-0.014327801332916	-0.001920377232408	-0.002221286415141
307	massimi	2.818974	2.034246	8.209256	0.007889369467391	0.012455879003833	0.000158358074365
307	minimi	-2.861339	-1.946594	-21.66168	-0.007763538005282	-0.012141059730928	-0.000161025523879
308	massimi	2.817531	1.941669	0.608274	0.007886554742954	0.012489065418979	0.000159042067784
308	minimi	-2.860027	-1.85573	-14.211591	-0.007779922036429	-0.012309141333642	-0.000162034754534
309	massimi	2.815935	1.845386	-2.834227	0.007930217655785	0.012429820032821	0.000161923231748
309	minimi	-2.858571	-1.761337	-10.842302	-0.007806284463277	-0.012386123323032	-0.000164919139706
310	massimi	2.900384	1.748382	4.092205	0.007938782921831	0.012368727985008	0.000159218750099
310	minimi	-2.941377	-1.666316	-17.683308	-0.007752592417719	-0.012401447499005	-0.000162322699528
311	massimi	2.98362	1.750247	5.567001	0.007952811933041	0.012338726230359	0.000159874117068
311	minimi	-3.022951	-1.668202	-19.034502	-0.007695545200458	-0.012370351814423	-0.000162878904425
312	massimi	3.06469	1.751231	8.721319	0.007934139716496	0.012338855106907	0.00015584462593

312	minimi	-3.102328	-1.669234	-22.03031	-0.007606864949719	-0.012369211442829	-0.000158996422774
313	massimi	3.144865	1.847528	8.368185	0.007942706858678	0.012400294774046	0.000151966749439
313	minimi	-3.180792	-1.763529	-21.478462	-0.007553191266046	-0.01235426297211	-0.000155103858671
314	massimi	3.143056	1.941669	6.015939	0.007965726428293	0.012489065418979	0.000160105400974
314	minimi	-3.17912	-1.85573	-19.052592	-0.007560179970684	-0.012309141333642	-0.0001630830107
315	massimi	3.141799	2.032084	6.767684	0.008016028920671	0.012485429619001	0.00014840021861
315	minimi	-3.177996	-1.944381	-19.653855	-0.00762841159764	-0.012172945438243	-0.0001512088694
316	massimi	3.063086	2.121967	12.06283	0.007986850256433	0.012455679578278	0.000150912600166
316	minimi	-3.100865	-2.032588	-24.922901	-0.007661064940621	-0.012068122059252	-0.000153610144516
317	massimi	2.98362	2.123456	12.478061	0.007952811933041	0.012425604095122	0.000159492186949
317	minimi	-3.022951	-2.034104	-25.496613	-0.007695545200458	-0.012037212088011	-0.000162461796535
318	massimi	2.901981	2.124877	14.191883	0.007906244619944	0.012425766417538	0.000154287380884
318	minimi	-2.942832	-2.035566	-27.334067	-0.007718564664867	-0.012035845720437	-0.00015693707782
319	massimi	2.920243	1.698242	-2.69031	0.006756832325187	0.012531347612915	0.000133464327377
319	minimi	-2.83503	-1.532157	-11.570626	-0.006627661856857	-0.012302034797619	-0.000124335370128
320	massimi	2.920627	1.723044	-0.70968	0.006737156398245	0.012456030554524	0.000131101970372
320	minimi	-2.835697	-1.551206	-13.645764	-0.00662784589172	-0.012370634852364	-0.00012189700464
321	massimi	2.920965	1.74642	6.060244	0.006757468670106	0.012288522068031	0.000131800080967
321	minimi	-2.83629	-1.569184	-20.427545	-0.006629199159266	-0.01234767576068	-0.000123327885412
322	massimi	2.980919	1.768885	13.009749	0.006768854103562	0.012175947667887	0.000128325850314
322	minimi	-2.901015	-1.586356	-27.222191	-0.006574456547102	-0.01231602910876	-0.000119894976016
323	massimi	3.039643	1.768807	12.55856	0.006795425135259	0.012163478451146	0.000131600302786
323	minimi	-2.964515	-1.586204	-26.641758	-0.006525842188927	-0.012302286826564	-0.000122438590731
324	massimi	3.096184	1.768418	12.443696	0.006793901207399	0.012180884217524	0.000125179693072
324	minimi	-3.025893	-1.585759	-26.36052	-0.006450252207185	-0.012318489346599	-0.000116657423897
325	massimi	3.151853	1.746078	9.102839	0.006805032787776	0.012293393834821	0.000122512143042
325	minimi	-3.086462	-1.568746	-22.876779	-0.006395273009784	-0.012350100647621	-0.00011377023311
326	massimi	3.152003	1.723044	5.689343	0.006791673912555	0.012456030554524	0.000132095332858
326	minimi	-3.086873	-1.551206	-19.450996	-0.006364285537939	-0.012370634852364	-0.000122919165691
327	massimi	3.152606	1.698212	5.250785	0.006805448938158	0.012526495971304	0.000124279047653
327	minimi	-3.087754	-1.532224	-18.91836	-0.006396590117656	-0.012299630035857	-0.000114880376027
328	massimi	3.096575	1.679669	7.131334	0.006794267701752	0.012548044200766	0.000127693203105
328	minimi	-3.026566	-1.519658	-20.835091	-0.00645132562596	-0.012240903984158	-0.000118262646398
329	massimi	3.039643	1.679982	5.333461	0.006795425135259	0.012535329440071	0.000131777322945
329	minimi	-2.964515	-1.519871	-19.203578	-0.006525842188927	-0.01222719232151	-0.000122545276157
330	massimi	2.980536	1.679823	4.398492	0.006768396188972	0.012552948762652	0.000130804358373
330	minimi	-2.900349	-1.519682	-18.397868	-0.00657329170809	-0.012243332234246	-0.000121465196543
331	massimi	2.520177	2.426919	5.192822	0.006147819770315	0.010091355028678	0.000194850500074
331	minimi	-2.610721	-2.382924	-21.601748	-0.006191679845336	-0.009622063851652	-0.00019186125463
332	massimi	2.518867	2.333342	1.272084	0.006130958158167	0.010104567109733	0.000197477709555
332	minimi	-2.609483	-2.287518	-17.916177	-0.006199185625299	-0.009806321611833	-0.000194684271664
333	massimi	2.517423	2.23547	-1.460023	0.006170866519488	0.010042978059219	0.00019918470158
333	minimi	-2.608111	-2.187914	-15.320384	-0.006217873201376	-0.009917986499926	-0.000196370591011
334	massimi	2.592185	2.142551	-0.750211	0.006213755298262	0.009986083586941	0.000196906121827
334	minimi	-2.684438	-2.093336	-16.077316	-0.006181201984887	-0.009958897690078	-0.000194238270522
335	massimi	2.687071	2.143511	-0.16918	0.006268391513639	0.009962257328859	0.000198330148476
335	minimi	-2.780838	-2.094376	-16.61311	-0.006145232297828	-0.009934700487885	-0.000195526186091
336	massimi	2.783334	2.143542	1.354323	0.006297017772698	0.009962782601367	0.000193832498785
336	minimi	-2.878539	-2.09449	-18.046796	-0.006083764022431	-0.009934465399435	-0.000191278717067
337	massimi	2.879161	2.237138	-0.655822	0.006339509682452	0.010019951262779	0.000190114088248
337	minimi	-2.975769	-2.189703	-15.853509	-0.006046703829011	-0.009893841843766	-0.000187636605504
338	massimi	2.877099	2.333342	-2.003481	0.006357562895905	0.010104567109733	0.000198446489834
338	minimi	-2.973772	-2.287518	-14.369338	-0.006044144052584	-0.009806321611833	-0.000195617107893
339	massimi	2.875636	2.425213	2.144704	0.006384212274169	0.010114391519742	0.000185776700221
339	minimi	-2.972387	-2.381097	-18.282553	-0.006094553027595	-0.009646218202436	-0.000183124082603
340	massimi	2.781493	2.516216	7.844578	0.006325876261554	0.010097746217407	0.000187835503696
340	minimi	-2.876773	-2.47389	-23.792913	-0.006115091452806	-0.009533960119184	-0.000185039513396
341	massimi	2.687071	2.517446	8.75808	0.006268391513639	0.010073843286856	0.000197865756898
341	minimi	-2.780838	-2.475192	-24.796184	-0.006145232297828	-0.009510017494001	-0.000195043037636
342	massimi	2.593635	2.518521	10.091218	0.00619547944532	0.010074429834435	0.000190910621908
342	minimi	-2.685812	-2.476357	-26.174607	-0.006160457190426	-0.009509512431143	-0.00018800562021
343	massimi	2.846463	2.008387	-2.150259	0.00540282387604	0.010201358236813	0.000190532886429
343	minimi	-2.797115	-1.873165	-18.306698	-0.005433100933828	-0.009740955178858	-0.000181788934279
344	massimi	2.846824	2.032268	-4.518311	0.005375416661561	0.010139326354582	0.000189671456188
344	minimi	-2.797709	-1.891547	-16.152533	-0.005435971828638	-0.009896658104761	-0.00018087353132
345	massimi	2.847103	2.056189	-2.753051	0.005403133954367	0.010002234782253	0.000188862588734
345	minimi	-2.798198	-1.910261	-18.006163	-0.005435971255489	-0.009979098090086	-0.000180656467549
346	massimi	2.914518	2.079061	1.628954	0.005452284050001	0.009910254957923	0.000185281169371
346	minimi	-2.87022	-1.928017	-22.348622	-0.005384287239122	-0.010010770802614	-0.00017713543816

347	massimi	3.003331	2.078985	1.330718	0.005518735199706	0.009900251308866	0.000190222580456
347	minimi	-2.963633	-1.927902	-21.978608	-0.005336237906263	-0.010000011853675	-0.000181455025087
348	massimi	3.090249	2.078527	1.254759	0.005562299717025	0.009914564565464	0.000182047831909
348	minimi	-3.055185	-1.927415	-21.774305	-0.005266059688461	-0.010013404042242	-0.000173853808083
349	massimi	3.176635	2.055797	-1.991921	0.005611111328068	0.010006492088423	0.000179319435494
349	minimi	-3.146246	-1.909817	-18.365611	-0.005214048877169	-0.009981698952643	-0.000170970798527
350	massimi	3.176734	2.032268	-3.51857	0.005611572839603	0.010139326354582	0.000190691068827
350	minimi	-3.146558	-1.891547	-16.7503	-0.005487693157622	-0.00989665810476	-0.000181908360982
351	massimi	3.177418	2.008457	-0.201198	0.005611493381748	0.010197104732256	0.000180980220778
351	minimi	-3.147472	-1.873287	-19.854077	-0.005216991174182	-0.009738358117913	-0.000172093752845
352	massimi	3.090654	1.993726	4.122916	0.00556258572831	0.010214954618998	0.00018434990298
352	minimi	-3.055821	-1.86422	-24.036992	-0.005268354560942	-0.00963434870744	-0.000175412070303
353	massimi	3.003331	1.993959	3.481212	0.005518735199706	0.010204759825206	0.000190400972944
353	minimi	-2.963633	-1.86439	-23.523593	-0.005336237906263	-0.009623819212738	-0.000181575819519
354	massimi	2.914127	1.993654	3.253157	0.005452027934314	0.010219258188546	0.00018758767509
354	minimi	-2.869598	-1.86408	-23.367355	-0.00538202226224	-0.009636975909077	-0.000178698135028
355	massimi	3.725712	3.532731	1.576719	0.008667365671441	0.009828090837296	0.000391492559905
355	minimi	-3.596653	-3.29684	-22.471999	-0.009028458369244	-0.009580350971811	-0.000358885473841
356	massimi	3.726792	3.582067	4.242711	0.008658444521575	0.009719498825185	0.000387322352992
356	minimi	-3.597877	-3.33552	-25.200886	-0.009031647325704	-0.009570830851732	-0.000354329501452
357	massimi	3.727494	3.629425	7.104773	0.008666910451949	0.00959526999345	0.000386491342379
357	minimi	-3.598706	-3.372375	-28.096587	-0.009028443322636	-0.009545913361492	-0.000354379201614
358	massimi	3.836258	3.675961	9.35798	0.008677916688924	0.009516185432047	0.000381806035807
358	minimi	-3.717975	-3.40846	-30.461765	-0.008973049050979	-0.009533309610458	-0.000349805314619
359	massimi	3.943967	3.675742	9.108082	0.008697154270732	0.009498172491387	0.000387720572492
359	minimi	-3.836185	-3.408188	-30.290037	-0.008892781641647	-0.009527763188683	-0.000354718644061
360	massimi	4.049614	3.675478	9.350834	0.008702478654207	0.00952372120066	0.000374541119926
360	minimi	-3.9524	-3.407859	-30.581645	-0.00879828595019	-0.009541424588312	-0.000342324025729
361	massimi	4.15473	3.629141	8.984905	0.00870761453425	0.009602225752352	0.000373499159183
361	minimi	-4.068154	-3.372021	-30.230987	-0.008736886003896	-0.009553404266244	-0.000340997561509
362	massimi	4.155616	3.582067	7.567954	0.008701576249308	0.009719498825185	0.000387792600584
362	minimi	-4.069162	-3.33552	-28.780431	-0.00871885176081	-0.009570830851732	-0.000354813849473
363	massimi	4.156563	3.533009	6.211651	0.008707082860661	0.009821154611061	0.000378508724473
363	minimi	-4.070257	-3.297188	-27.3612	-0.008736794503191	-0.009572879599726	-0.0003455121815
364	massimi	4.050696	3.483018	2.59361	0.008702001257544	0.009892990480692	0.000383396918507
364	minimi	-3.953643	-3.258	-23.631188	-0.008798215240222	-0.009578293430946	-0.000350288955957
365	massimi	3.943967	3.482908	0.329105	0.008697154270732	0.009902332537872	0.000387394381485
365	minimi	-3.836185	-3.257815	-21.317802	-0.008892781641647	-0.009575995942543	-0.000354424707265
366	massimi	3.83519	3.482554	-0.929427	0.008678351765336	0.009900490961251	0.000390608607753
366	minimi	-3.716747	-3.257418	-19.981125	-0.008973077440696	-0.009586373120747	-0.000357717018211
367	massimi	2.042107	2.474366	2.637476	0.005957931153534	0.00828976153829	0.000219154866834
367	minimi	-2.143994	-2.463653	-19.234992	-0.006103023189827	-0.007672158154549	-0.000216958926787
368	massimi	2.041347	2.370807	-0.075995	0.005933386974998	0.008277174164487	0.000224036396609
368	minimi	-2.143252	-2.358764	-16.848068	-0.006103961582561	-0.007834159104182	-0.0002220138658
369	massimi	2.04092	2.264285	-1.773533	0.005962714330303	0.008203322186688	0.000223583351562
369	minimi	-2.142845	-2.250937	-15.375783	-0.006112480349071	-0.007938175607323	-0.000221433440884
370	massimi	2.067578	2.173184	-1.51376	0.006004319536342	0.008145238213032	0.000222190846435
370	minimi	-2.170688	-2.158583	-15.825233	-0.006072276451213	-0.007980969685321	-0.00022017450836
371	massimi	2.095274	2.173763	-1.848315	0.006062076731139	0.008128874835247	0.000224770344787
371	minimi	-2.199516	-2.159254	-15.499643	-0.006036682845495	-0.007964854927624	-0.000222728896391
372	massimi	2.172615	2.173389	-0.761198	0.006094678399974	0.00813242447679	0.000220016926644
372	minimi	-2.277903	-2.158969	-16.549948	-0.005976039151477	-0.007967922688163	-0.000218127400558
373	massimi	2.257418	2.26448	-1.367378	0.006135895935783	0.008190661038915	0.000217167426944
373	minimi	-2.363711	-2.251267	-15.726045	-0.005935449210639	-0.007925283970895	-0.000215391747864
374	massimi	2.25579	2.370807	-1.752194	0.006145954509844	0.008277174164487	0.000224721695044
374	minimi	-2.362095	-2.358764	-15.115937	-0.005924824515688	-0.007834159104182	-0.000224659204974
375	massimi	2.254673	2.473369	1.049828	0.006162384753114	0.008302421606762	0.000212735326912
375	minimi	-2.361003	-2.46252	-17.591452	-0.005966612010445	-0.007685048711675	-0.000210913618463
376	massimi	2.171188	2.575016	4.832389	0.006110701061672	0.008300190537697	0.000213889188504
376	minimi	-2.276496	-2.56542	-21.038189	-0.005995729188823	-0.007585179706447	-0.000211936004576
377	massimi	2.095274	2.575754	5.235004	0.006062076731139	0.008283732260472	0.000224295841753
377	minimi	-2.199516	-2.566243	-21.477545	-0.006036682845495	-0.007569310028872	-0.0002224946363
378	massimi	2.068492	2.576372	6.273742	0.006000419833403	0.008287378515885	0.000216064802601
378	minimi	-2.171581	-2.566957	-22.507389	-0.006064709372626	-0.007572134423719	-0.000213984806684
379	massimi	2.278791	2.01446	-3.52691	0.005251956911645	0.008144225207998	0.000233270445366
379	minimi	-2.255933	-1.938303	-18.905339	-0.00548408253542	-0.007562881793873	-0.000229189393892
380	massimi	2.278241	2.042486	-5.169965	0.005222292695405	0.008064388938332	0.000235297010009
380	minimi	-2.255513	-1.963764	-17.543318	-0.005488187096984	-0.007725724141358	-0.000231216747172
381	massimi	2.277738	2.071508	-3.889574	0.0052518199664	0.007924881096796	0.000231806063437

381	minimi	-2.255128	-1.990384	-18.9645	-0.005487518633988	-0.007831402438299	-0.000228025886265
382	massimi	2.305656	2.099617	-1.840075	0.005309366326674	0.007831809709144	0.000229148536072
382	minimi	-2.285173	-2.016147	-21.121408	-0.005432076687556	-0.007877036454916	-0.000225406276179
383	massimi	2.334027	2.099677	-2.34088	0.005385118134672	0.007818841777682	0.000235744158008
383	minimi	-2.315666	-2.016187	-20.649333	-0.005379741762198	-0.007864217490878	-0.000231680724721
384	massimi	2.418994	2.099376	-1.911774	0.005438534482868	0.007825153709775	0.000226838595434
384	minimi	-2.402771	-2.015874	-21.043813	-0.005305093700287	-0.007870331069728	-0.000223073999482
385	massimi	2.508868	2.071331	-3.88862	0.005495756218696	0.007918306820007	0.000224990023517
385	minimi	-2.494804	-1.990184	-18.953622	-0.005249327473786	-0.007824779362661	-0.00022114393066
386	massimi	2.508871	2.042486	-5.058278	0.005498698067459	0.008064388938332	0.000236024634581
386	minimi	-2.494926	-1.963764	-17.643162	-0.005222100121273	-0.007725724141358	-0.000231951409846
387	massimi	2.509426	2.014372	-2.596148	0.005495677590697	0.008150790276259	0.000226458093016
387	minimi	-2.495609	-1.938238	-19.824267	-0.0052528218896	-0.007569495660984	-0.000222311125858
388	massimi	2.419277	1.995079	0.253878	0.005438461745425	0.008185042331645	0.000228867598852
388	minimi	-2.403183	-1.921597	-22.364479	-0.005307824504589	-0.007467517715951	-0.000224686900106
389	massimi	2.334027	1.995381	-0.397329	0.005385118134672	0.008171863634218	0.00023590116925
389	minimi	-2.315666	-1.921868	-21.747842	-0.005379741762198	-0.007454958991953	-0.000231805514361
390	massimi	2.306189	1.995119	0.073472	0.005309463291316	0.008178400957451	0.000231175804108
390	minimi	-2.285576	-1.921605	-22.189969	-0.005429370110452	-0.007460826955938	-0.00022701744142
391	massimi	3.070777	4.127059	-1.420523	0.004787471751295	0.007912956485798	0.000297724323035
391	minimi	-2.992938	-3.904493	-24.294117	-0.004995475226441	-0.007298926583299	-0.000228884021377
392	massimi	3.070712	4.155963	0.443544	0.00477602763942	0.007809297894104	0.000294988191203
392	minimi	-2.992998	-3.930499	-26.335753	-0.004999723291756	-0.007318379212577	-0.000286123372
393	massimi	3.070531	4.182514	2.345147	0.004787276516516	0.007693098450535	0.000292932898195
393	minimi	-2.992939	-3.954293	-28.378554	-0.004996733492958	-0.00732608167954	-0.000284545216672
394	massimi	3.069065	4.20806	3.786711	0.004829061152625	0.007616423743233	0.000289223593967
394	minimi	-2.994232	-3.977139	-29.980652	-0.004955943167723	-0.00733209706333	-0.000280959071866
395	massimi	3.067637	4.208025	3.803641	0.004893199166403	0.007595451355525	0.000295290096298
395	minimi	-2.99556	-3.977063	-30.016687	-0.00489590163271	-0.007326505427432	-0.000286415243807
396	massimi	3.114493	4.207879	3.996483	0.004949586412331	0.007614355393601	0.00028475030009
396	minimi	-3.045216	-3.976879	-30.192179	-0.004828104977165	-0.007330036715101	-0.000276341082215
397	massimi	3.169496	4.182407	2.184239	0.004988186537613	0.00769118932826	0.000284874397107
397	minimi	-3.103068	-3.954139	-28.221158	-0.004784128271776	-0.007324179949961	-0.000276226272892
398	massimi	3.170366	4.155963	0.189791	0.004991267220337	0.007809297894104	0.000295280286139
398	minimi	-3.104057	-3.930499	-26.085513	-0.004772965774785	-0.007318379212577	-0.000286424896357
399	massimi	3.17123	4.127167	-1.749266	0.004987887717996	0.007914860088473	0.000289648964184
399	minimi	-3.105048	-3.904648	-23.968886	-0.004785282953455	-0.007300822793279	-0.000280548219835
400	massimi	3.115512	4.097306	-3.748339	0.004949328153574	0.007986349436688	0.000293351828706
400	minimi	-3.046381	-3.877796	-21.80928	-0.004829189644473	-0.007289961015802	-0.000284127924935
401	massimi	3.067637	4.097327	-3.884804	0.004893199166403	0.007992256527956	0.000294978368983
401	minimi	-2.99556	-3.877771	-21.690082	-0.00489590163271	-0.007281313501975	-0.000286133012489
402	massimi	3.069193	4.097124	-3.846523	0.004829262129431	0.007984291056653	0.000297841965414
402	minimi	-2.994213	-3.877535	-21.709341	-0.004954801218466	-0.007287910637169	-0.000288762757416
403	massimi	1.927575	2.476843	1.332893	0.005970965920841	0.007945019900686	0.000202643350803
403	minimi	-2.065485	-2.471994	-17.919078	-0.006131204955156	-0.007340819168291	-0.00021014798857
404	massimi	1.927488	2.376733	-0.946551	0.005938871295906	0.007923019928305	0.000208520489653
404	minimi	-2.065384	-2.37667	-15.957847	-0.006124480549829	-0.007493353340567	-0.000216503430719
405	massimi	1.927497	2.273965	-1.643321	0.005958252516339	0.007842404403913	0.000207119124889
405	minimi	-2.065407	-2.278688	-15.478038	-0.006132024701513	-0.007590453284015	-0.000214624004035
406	massimi	1.93821	2.185488	-1.212044	0.005997617498106	0.007783737285143	0.000206584159388
406	minimi	-2.071935	-2.195063	-16.099028	-0.006080612329714	-0.00763259496297	-0.000214238676488
407	massimi	1.95	2.185701	-2.00198	0.006057616474356	0.007772711561863	0.000209110556017
407	minimi	-2.079494	-2.195376	-15.326354	-0.006047365305104	-0.007621871314446	-0.000217074156253
408	massimi	1.962115	2.184968	-1.286137	0.006092477054345	0.007780766019144	0.000205271641834
408	minimi	-2.087271	-2.194766	-16.013694	-0.005989022447998	-0.007629529532683	-0.000213083689775
409	massimi	1.981287	2.273609	-1.541179	0.006131456598471	0.007839468317425	0.000203245043691
409	minimi	-2.102033	-2.278499	-15.557616	-0.005946225295456	-0.007587424152364	-0.000211214808052
410	massimi	1.980794	2.376733	-1.031014	0.006130509668583	0.007923019928305	0.000208934409742
410	minimi	-2.101544	-2.37667	-15.850804	-0.005924491886725	-0.007493353340567	-0.000216867711842
411	massimi	1.98053	2.476529	1.362216	0.006137871111299	0.007947956445423	0.000198764849168
411	minimi	-2.101276	-2.471513	-17.925838	-0.005957172959144	-0.00734384875819	-0.00020673437215
412	massimi	1.961897	2.57512	4.922866	0.006093503763101	0.007948778962095	0.000199077765552
412	minimi	-2.087053	-2.565196	-21.150657	-0.005993606030824	-0.007247003395206	-0.000206889479669
413	massimi	1.95	2.575405	4.516613	0.006057616474356	0.007937650679787	0.000208630942675
413	minimi	-2.079494	-2.565603	-20.772837	-0.006047365305104	-0.007236517099892	-0.000216594517059
414	massimi	1.938315	2.575555	5.125207	0.006007479142915	0.00794580696845	0.000200392355313
414	minimi	-2.072039	-2.565855	-21.364239	-0.006086917100453	-0.007243937237275	-0.000208046538589
415	massimi	2.128639	2.021361	-3.749127	0.005247124416695	0.007815178138709	0.000208022490979
415	minimi	-2.149439	-1.98162	-18.984299	-0.005568594732216	-0.007233780128399	-0.000210714152847

416	massimi	2.12843	2.036901	-5.168973	0.005216333959648	0.007733175611174	0.000210958312317
416	minimi	-2.149285	-1.998869	-17.844145	-0.005571942952944	-0.007398675876616	-0.000213837818724
417	massimi	2.128328	2.055679	-4.696508	0.005244002850698	0.00759397516899	0.000206673774348
417	minimi	-2.149247	-2.019434	-18.453556	-0.005569002267023	-0.00750885039281	-0.000209510794465
418	massimi	2.139223	2.0736	-2.610806	0.005300655174737	0.007502669468963	0.000204965730408
418	minimi	-2.158576	-2.039187	-20.689098	-0.005510554709128	-0.007558817177978	-0.000207850209772
419	massimi	2.150802	2.073751	-2.99435	0.005376200581629	0.007492060703306	0.00021124711926
419	minimi	-2.168583	-2.039344	-20.381483	-0.005455823270906	-0.007548738304368	-0.000214132976859
420	massimi	2.162259	2.073496	-2.544642	0.005430656196511	0.007499943736894	0.000203594193937
420	minimi	-2.178452	-2.039114	-20.842575	-0.005379671439119	-0.007556822837146	-0.000206500303441
421	massimi	2.180238	2.055599	-4.293242	0.00548935399003	0.007591286298802	0.000202626602779
421	minimi	-2.194834	-2.019378	-19.032074	-0.00532326425056	-0.007506884220984	-0.000205527455354
422	massimi	2.179993	2.036901	-5.163322	0.005493137709791	0.007733175611174	0.000211390403147
422	minimi	-2.194652	-1.998869	-18.025175	-0.005296045450697	-0.007398675876616	-0.000214263093888
423	massimi	2.179987	2.021241	-3.286266	0.00549003327456	0.007817851304963	0.000203976682179
423	minimi	-2.194703	-1.981476	-19.622412	-0.005327472635893	-0.00723573059629	-0.000206732176506
424	massimi	2.162068	2.01053	-0.320177	0.005431178139217	0.007852723197358	0.000205461139466
424	minimi	-2.178324	-1.96907	-22.232446	-0.005382962444266	-0.007131765691007	-0.000208166221586
425	massimi	2.150802	2.010782	-0.705601	0.005376200581629	0.007841910752881	0.000211391622986
425	minimi	-2.168583	-1.969337	-21.835584	-0.005455823270906	-0.007121963008219	-0.000214261913701
426	massimi	2.139398	2.010513	-0.118727	0.005303101019664	0.007850022406709	0.000206832033379
426	minimi	-2.158688	-1.969084	-22.346584	-0.005510231491613	-0.007129796291596	-0.000209515485359
427	massimi	2.610397	3.745038	-2.160896	0.005663104821613	0.006629920449932	0.000623128762125
427	minimi	-2.488656	-3.707973	-25.688175	-0.006447213218632	-0.006505573415303	-0.000616787069672
428	massimi	2.610585	3.789	-0.701864	0.005651379819925	0.006534594347576	0.000625023687978
428	minimi	-2.488865	-3.749836	-27.163791	-0.006451390380793	-0.006544680456187	-0.0006184148447
429	massimi	2.610306	3.831251	0.896524	0.005663255471655	0.006428834328145	0.000619016377861
429	minimi	-2.488608	-3.790013	-28.739046	-0.006447334005944	-0.006573337334983	-0.000612753306367
430	massimi	2.782342	3.872953	2.463784	0.005703826833808	0.006358756798749	0.000615567923081
430	minimi	-2.662689	-3.82964	-30.484895	-0.006397775812654	-0.006593517439044	-0.000609241890074
431	massimi	2.954101	3.87298	2.49547	0.005766252214348	0.006339661122725	0.000625305365431
431	minimi	-2.836523	-3.829603	-30.718045	-0.006325475431637	-0.006591624311071	-0.000618701651366
432	massimi	3.124699	3.872943	2.668475	0.005819515833948	0.00635608900106	0.000611036072637
432	minimi	-3.009269	-3.829501	-31.052704	-0.00624311258662	-0.006592505377226	-0.000604474001695
433	massimi	3.295183	3.83125	1.233254	0.005856300057328	0.00642637296056	0.0006108636395642
433	minimi	-3.181944	-3.789936	-29.802632	-0.006189380433416	-0.006572405743025	-0.000604175771691
434	massimi	3.295052	3.789	-0.457723	0.005858977224823	0.006534594347576	0.000625318660819
434	minimi	-3.181829	-3.749836	-28.134882	-0.006175193595428	-0.006544680456187	-0.000618725199477
435	massimi	3.295154	3.745026	-1.963324	0.00585637860382	0.006632371655116	0.000614987089512
435	minimi	-3.181958	-3.708037	-26.612603	-0.006189429117179	-0.006506494844859	-0.000608220544601
436	massimi	3.124674	3.70063	-3.713381	0.005819601382672	0.006698281130069	0.000618453588794
436	minimi	-3.009269	-3.665818	-24.683958	-0.006243170544423	-0.006482013749434	-0.000611750005396
437	massimi	2.954101	3.700767	-3.822443	0.005766252214348	0.00670386070958	0.00062503701714
437	minimi	-2.836523	-3.665887	-24.413243	-0.006325475431637	-0.006472029707663	-0.000618438426585
438	massimi	2.782385	3.700664	-3.847786	0.005703701363678	0.006695631689198	0.000622974431132
438	minimi	-2.662707	-3.665723	-24.186434	-0.006397677933444	-0.006481020044434	-0.00061650688567
439	massimi	1.849517	2.500132	1.109667	0.005973053988726	0.007956093584049	0.000209476189206
439	minimi	-2.043985	-2.502973	-17.581139	-0.006173167788216	-0.007532653044959	-0.000231276737399
440	massimi	1.85058	2.371155	-1.15202	0.005942115714702	0.007929870564186	0.000217200482631
440	minimi	-2.04499	-2.387797	-15.525471	-0.006166275698663	-0.007679321653685	-0.000239937596479
441	massimi	1.851884	2.243184	-1.601721	0.005962262190237	0.007845003331129	0.000214051325079
441	minimi	-2.0463	-2.273593	-15.181823	-0.006165019378906	-0.0077692011552	-0.000235788266308
442	massimi	1.825813	2.122769	-0.851011	0.006000327721865	0.007788494532179	0.000214461878828
442	minimi	-2.008128	-2.16703	-16.033916	-0.006122490688036	-0.007811650112467	-0.000236376940483
443	massimi	1.801103	2.122699	-1.850287	0.006058297331989	0.007785840674903	0.000217651291543
443	minimi	-1.971278	-2.167079	-15.074145	-0.006089141567478	-0.007809272714917	-0.00024036797618
444	massimi	1.790964	2.121543	-1.283903	0.006091124711149	0.007802323444772	0.000214104025796
444	minimi	-1.948859	-2.166099	-15.634847	-0.006030522148299	-0.007825762351321	-0.000236226108186
445	massimi	1.787438	2.242286	-1.247836	0.006128814272989	0.007858659404057	0.000212994499297
445	minimi	-1.932936	-2.272914	-15.603597	-0.005987615510789	-0.007783137187107	-0.000235342374093
446	massimi	1.78746	2.371155	0.090542	0.006119263323005	0.007929870564186	0.000217313558766
446	minimi	-1.932954	-2.387797	-16.835972	-0.00595650954805	-0.007679321653685	-0.000239985439069
447	massimi	1.787602	2.500523	2.150181	0.006118807986022	0.007942468134111	0.000208415124466
447	minimi	-1.933048	-2.503145	-18.689541	-0.005980252613001	-0.00751874763604	-0.000230826606227
448	massimi	1.791139	2.628522	5.875179	0.006083172774036	0.007940891443723	0.00020777276278
448	minimi	-1.949007	-2.617155	-22.168797	-0.006024644309572	-0.007420040714357	-0.00022998281253
449	massimi	1.801103	2.628265	4.880755	0.006058297331989	0.007938118008954	0.000217161054369
449	minimi	-1.971278	-2.617077	-21.180014	-0.006089141567478	-0.007417879560668	-0.000239884551288
450	massimi	1.824627	2.628003	5.049397	0.006008511171307	0.007954671712551	0.000208132603736

450	minimi	-2.006969	-2.61693	-21.309192	-0.00612860003875	-0.007434104309445	-0.000230135632752
451	massimi	1.939415	2.006028	-4.16285	0.005168764041144	0.007844015912408	0.000213498376826
451	minimi	-1.984606	-2.008921	-18.068223	-0.005587319894538	-0.007425180984754	-0.000217422143391
452	massimi	1.939789	2.042681	-5.275092	0.005140216670011	0.007756912675806	0.000217796103663
452	minimi	-1.984966	-2.048062	-17.136191	-0.005591082915825	-0.00757938426961	-0.000221904501338
453	massimi	1.940397	2.078943	-4.393131	0.005168209648492	0.007612439573323	0.000211130158626
453	minimi	-1.985571	-2.086801	-18.059062	-0.005588638494825	-0.00767753213363	-0.000215033358038
454	massimi	1.917936	2.118367	-1.373405	0.005221903532022	0.007521539593898	0.000210339419732
454	minimi	-1.960935	-2.12872	-21.189299	-0.00553005002697	-0.0077241075507	-0.000214285010459
455	massimi	1.896113	2.118549	-2.121275	0.005293258476088	0.007517184191521	0.000217872326934
455	minimi	-1.936926	-2.128934	-20.57257	-0.005474955061229	-0.007720566716609	-0.000221974617771
456	massimi	1.880323	2.118421	-1.815331	0.005342677733573	0.007531406977443	0.000210028031054
456	minimi	-1.918915	-2.128845	-20.946617	-0.005397169986088	-0.00773564394708	-0.00021402327077
457	massimi	1.86576	2.078975	-3.980574	0.005396073416145	0.007622183001115	0.000210133086952
457	minimi	-1.902107	-2.086886	-18.871539	-0.005338271678898	-0.007688924737376	-0.000214182804928
458	massimi	1.865627	2.042681	-4.672165	0.005397891282244	0.007756912675806	0.000217902736081
458	minimi	-1.901969	-2.048062	-18.139327	-0.005308755462184	-0.00757938426961	-0.000221995489337
459	massimi	1.865569	2.005885	-3.636541	0.00539551079184	0.007834295998817	0.000212498127447
459	minimi	-1.901899	-2.008725	-18.994451	-0.005339582047532	-0.007413811895209	-0.000216568412576
460	massimi	1.880224	1.974795	0.190524	0.005342237620945	0.007868435744648	0.000213169870339
460	minimi	-1.918808	-1.975102	-22.509529	-0.005398199492689	-0.007311753709009	-0.000217193553993
461	massimi	1.896113	1.975064	-0.595285	0.005293258476088	0.0078638473606	0.000218125782934
461	minimi	-1.936926	-1.975413	-21.655589	-0.005474955061229	-0.007308448737124	-0.000222230276373
462	massimi	1.917417	1.974724	-0.323684	0.00522234022461	0.007878265782119	0.000213509045204
462	minimi	-1.960425	-1.975102	-21.796077	-0.005529017100328	-0.007323252759315	-0.000217483079869
463	massimi	2.204787	3.200186	-1.326588	0.007507554179844	0.005149173751264	0.000811369640075
463	minimi	-1.951945	-3.333895	-24.880576	-0.008532486874396	-0.006077130189795	-0.000797857003814
464	massimi	2.205061	3.234578	0.084238	0.007496455271075	0.005062114475178	0.000816898741373
464	minimi	-1.952148	-3.363814	-25.967773	-0.008534431709474	-0.006115910412768	-0.000802613034797
465	massimi	2.204707	3.269009	1.529525	0.007509760392033	0.004967004651082	0.000810229564641
465	minimi	-1.951724	-3.393692	-27.052432	-0.00853157303062	-0.006144942809798	-0.000796457486118
466	massimi	2.459544	3.304275	2.754652	0.007544680704134	0.00490500387082	0.000807814022201
466	minimi	-2.211036	-3.424335	-28.199558	-0.008482639870444	-0.006166739561766	-0.000793742299516
467	massimi	2.71575	3.30439	2.792524	0.00759830455075	0.004890836128723	0.000817096173639
467	minimi	-2.4718	-3.424325	-28.520169	-0.008412256396752	-0.006168180699657	-0.000802834877832
468	massimi	2.970976	3.304452	3.247431	0.007639770700111	0.00490693555272	0.000802895385665
468	minimi	-2.731736	-3.424245	-29.220857	-0.008328404248548	-0.006171081174491	-0.000788333932048
469	massimi	3.226072	3.269126	2.22983	0.007669565052136	0.004968780146832	0.0008013784486
469	minimi	-2.991609	-3.39365	-28.810679	-0.008273782108428	-0.006148944900684	-0.000786724887235
470	massimi	3.226144	3.234578	0.610233	0.00767021234444	0.005062114475178	0.000817219101923
470	minimi	-2.9916	-3.363814	-27.551848	-0.008256909101538	-0.006115910412768	-0.000802965309752
471	massimi	3.226632	3.200042	-0.962486	0.007671727252278	0.005147425428958	0.000802523976267
471	minimi	-2.992027	-3.333909	-26.302621	-0.008272824252605	-0.006073155272352	-0.000788129857164
472	massimi	2.971298	3.166918	-2.874384	0.007641776544778	0.005205969123252	0.000804954861162
472	minimi	-2.731974	-3.305357	-24.468724	-0.008327527395766	-0.006046989175938	-0.000790860386221
473	massimi	2.71575	3.167149	-3.327239	0.00759830455075	0.005213639250337	0.000817021698366
473	minimi	-2.4718	-3.305452	-23.770266	-0.008412256396752	-0.00603970413997	-0.000802743495427
474	massimi	2.459575	3.167188	-3.289939	0.007542650490091	0.005207851724178	0.00080986804866
474	minimi	-2.211151	-3.30536	-23.524649	-0.008483492353849	-0.006051281707688	-0.000796263304065
475	massimi	2.055246	1.918696	6.141805	0.007657575473203	0.008424961682106	0.000172095986315
475	minimi	-2.350695	-1.980867	-20.962337	-0.007999448864107	-0.008144914877851	-0.000164958301055
476	massimi	2.05628	1.939057	4.860037	0.007611404782111	0.008419266296526	0.000177144466085
476	minimi	-2.351637	-1.996873	-19.803418	-0.007973888858928	-0.008293666872136	-0.000170307205528
477	massimi	2.057421	1.96744	4.457129	0.007628465112119	0.008351486293313	0.00017210779651
477	minimi	-2.352689	-2.020781	-19.434102	-0.007971663626165	-0.008381264207905	-0.000164749142295
478	massimi	2.066247	1.999725	2.453168	0.007675760128084	0.008305648781652	0.000172098585046
478	minimi	-2.365545	-2.048661	-17.548963	-0.007946906357282	-0.008423670662539	-0.000165060961159
479	massimi	2.075144	1.998689	-1.038947	0.007752634486533	0.008305525849544	0.000177253842962
479	minimi	-2.378328	-2.047904	-14.181312	-0.007942753683968	-0.008424422307833	-0.000170341903927
480	massimi	2.083377	1.997336	-1.946197	0.007797338305502	0.00832573952763	0.000172188908621
480	minimi	-2.390194	-2.046797	-13.358078	-0.007905641079414	-0.008445507788682	-0.000165520111437
481	massimi	2.091767	1.96567	-1.285489	0.007844223610088	0.008371395747191	0.000172369958316
481	minimi	-2.402089	-2.019402	-14.109942	-0.007880461916242	-0.008402899286548	-0.000166099739103
482	massimi	2.092811	1.939057	1.271908	0.007823321553988	0.008419266296526	0.00017711766618
482	minimi	-2.403023	-1.996873	-16.634052	-0.007839336051978	-0.008293666872136	-0.000170164185991
483	massimi	2.09404	1.920024	5.223516	0.007815699679408	0.008404854564433	0.000172335853698
483	minimi	-2.40418	-1.981803	-20.462506	-0.007853263108704	-0.008123082135413	-0.000166286603441
484	massimi	2.084558	1.899611	8.63462	0.007774849668064	0.008389093463301	0.000172151714722
484	minimi	-2.391281	-1.965442	-23.625518	-0.007884192181506	-0.008019974133407	-0.00016578851388

485	massimi	2.075144	1.899	8.208904	0.007752634486533	0.008389077353707	0.000177251381188
485	minimi	-2.378328	-1.965091	-23.115765	-0.007942753683968	-0.008021133319089	-0.000170363107843
486	massimi	2.06509	1.897838	8.465717	0.007698492401423	0.008409498131299	0.000172071847457
486	minimi	-2.364483	-1.964194	-23.248135	-0.007968598891091	-0.00804212518157	-0.000165339819912
487	massimi	2.427579	1.858891	-1.172216	0.006305006509279	0.008254013854415	0.000276814606013
487	minimi	-2.447438	-1.912368	-17.861378	-0.006844278571337	-0.008064389546253	-0.000280084058229
488	massimi	2.427901	1.744974	-1.251495	0.006274742272032	0.008150186160971	0.000288406950916
488	minimi	-2.447669	-1.800506	-17.83178	-0.006840098670796	-0.008165053247878	-0.000291693724042
489	massimi	2.428599	1.631184	1.04634	0.006305288186197	0.007986102681712	0.000281078960951
489	minimi	-2.448285	-1.688658	-20.061415	-0.006844403394772	-0.008205351085705	-0.000284136168997
490	massimi	2.379845	1.521042	3.930863	0.006356568475102	0.007884320124146	0.000282618324525
490	minimi	-2.397813	-1.58042	-23.037757	-0.006800622772979	-0.008219581213069	-0.000285652491691
491	massimi	2.332109	1.521682	2.98928	0.006427342431669	0.007880910021909	0.000288691911032
491	minimi	-2.348361	-1.581078	-22.308137	-0.0067651891814	-0.00821750595874	-0.000291966459834
492	massimi	2.285321	1.521433	2.543912	0.006471526395977	0.007896975250929	0.000283514920233
492	minimi	-2.299844	-1.58084	-22.021282	-0.006701762823275	-0.008235339703413	-0.000286568858249
493	massimi	2.253773	1.631454	-1.348603	0.006522525531474	0.00799861851283	0.000283725056664
493	minimi	-2.26655	-1.688949	-18.410084	-0.006657679407669	-0.008220933395675	-0.000286840610239
494	massimi	2.25355	1.744974	-2.6363	0.006521219368146	0.008150186160971	0.00028812434283
494	minimi	-2.266243	-1.800506	-17.191126	-0.006628464760577	-0.008165053247878	-0.000291404886154
495	massimi	2.253457	1.858587	-2.556453	0.006522623301477	0.008241459825092	0.00027946201765
495	minimi	-2.26606	-1.912043	-17.220752	-0.006657620324189	-0.008048769038079	-0.000282789815396
496	massimi	2.285745	1.976719	-0.644653	0.006471636774135	0.008283596957559	0.000277618731652
496	minimi	-2.300177	-2.028052	-18.86981	-0.006701750128414	-0.007974747958621	-0.000280966198866
497	massimi	2.332109	1.976661	-1.402802	0.006427342431669	0.00827997088938	0.000288235304175
497	minimi	-2.348361	-2.028019	-17.953151	-0.0067651891814	-0.007972854482273	-0.000291532582891
498	massimi	2.379332	1.97672	-1.060877	0.006356381706996	0.008296312756806	0.000276721519982
498	minimi	-2.397391	-2.028081	-18.083111	-0.00680055907789	-0.007990567121429	-0.000280049216347
499	massimi	3.313062	3.13555	-1.590579	0.005407723744583	0.006623897328845	0.000223404769884
499	minimi	-3.232471	-3.477146	-15.363502	-0.00696330354934	-0.006881446787878	-0.000254151597465
500	massimi	3.313391	3.152143	0.248057	0.005402163130781	0.006558925698097	0.000226422850552
500	minimi	-3.232596	-3.503733	-17.104231	-0.006966107882	-0.006897725507537	-0.000257028871279
501	massimi	3.313661	3.167075	2.384861	0.005410101360842	0.006483411799766	0.000220353678994
501	minimi	-3.232685	-3.528439	-19.11895	-0.006964678054533	-0.006902916277646	-0.000250394687367
502	massimi	3.280284	3.181397	4.354116	0.005424086519318	0.00643420477428	0.00021982242309
502	minimi	-3.189462	-3.552429	-21.439307	-0.006923792433477	-0.006908831830889	-0.000249500179273
503	massimi	3.246237	3.181586	4.55155	0.005445675819038	0.006420180289104	0.000226465856999
503	minimi	-3.145647	-3.55256	-22.109422	-0.006864069844705	-0.006906673226845	-0.000257101455649
504	massimi	3.210501	3.181681	5.023228	0.005458562650189	0.006434114067384	0.000221553696901
504	minimi	-3.100206	-3.552603	-23.029421	-0.006793360275916	-0.006912940674003	-0.000251029698473
505	massimi	3.174148	3.167238	3.60006	0.005468880770034	0.006483318427074	0.000223458970252
505	minimi	-3.05413	-3.528536	-22.177721	-0.006747826496744	-0.006906702973848	-0.000253136508459
506	massimi	3.17457	3.152143	1.689956	0.005467725953731	0.006558925698097	0.000226310914375
506	minimi	-3.054368	-3.503733	-20.389942	-0.006734939784525	-0.006897725507537	-0.000256930094671
507	massimi	3.174792	3.135399	-0.160274	0.005471188947819	0.006624019083674	0.000226482806588
507	minimi	-3.054389	-3.477061	-18.637379	-0.006749131563463	-0.006877688473813	-0.000256866164003
508	massimi	3.210877	3.118024	-2.25162	0.005460708229983	0.006668757214623	0.000227007701391
508	minimi	-3.100353	-3.44963	-16.194931	-0.006794579056402	-0.006866750193186	-0.000257754130215
509	massimi	3.246237	3.118226	-2.781223	0.005445675819038	0.006671744844355	0.000226267895691
509	minimi	-3.145647	-3.449793	-15.217065	-0.006864069844705	-0.006861506861671	-0.000256857498064
510	massimi	3.279921	3.118268	-3.230694	0.005421902493498	0.006668615246223	0.000225303517482
510	minimi	-3.189328	-3.449763	-14.294856	-0.006922535206966	-0.006870807774796	-0.000256251881699
511	massimi	3.391769	3.59114	-5.465764	0.008879219636455	0.004721917577569	0.000358633631968
511	minimi	-3.797314	-3.531613	-18.354017	-0.009164317092899	-0.003301593032906	-0.00033904305029
512	massimi	3.392609	3.6781	-4.503759	0.008866815937803	0.004637027277499	0.00035963209028
512	minimi	-3.798206	-3.612296	-19.757005	-0.009167782927814	-0.003331170120945	-0.000340641748423
513	massimi	3.393253	3.76313	-3.528167	0.008879635246325	0.004544675913782	0.000352351484912
513	minimi	-3.798871	-3.691091	-21.139541	-0.009168599056078	-0.00335538940125	-0.000332893004889
514	massimi	3.42291	3.84726	-3.403413	0.008911090391133	0.004483290239501	0.000349598353915
514	minimi	-3.834898	-3.769041	-21.719625	-0.009122672179619	-0.003371712296141	-0.000330528511007
515	massimi	3.452242	3.845986	-3.150783	0.008967607823512	0.004467509197195	0.000359855870028
515	minimi	-3.870458	-3.768002	-22.019984	-0.009061831489551	-0.003371173757603	-0.000340833867516
516	massimi	3.480223	3.844739	-2.490516	0.009022689707399	0.004481182105524	0.000349012427656
516	minimi	-3.904407	-3.766979	-22.693704	-0.008999403491298	-0.003369883137534	-0.000330782157312
517	massimi	3.508067	3.761631	-0.807846	0.009059817048145	0.004542721642281	0.000351290619881
517	minimi	-3.938106	-3.689864	-23.982331	-0.008959083635182	-0.003353692882045	-0.000333343314184
518	massimi	3.508889	3.6781	-1.320771	0.009056902047209	0.004637027277499	0.000359670779435
518	minimi	-3.938967	-3.612296	-23.062478	-0.008944008424618	-0.003331170120945	-0.000340625724966
519	massimi	3.509634	3.592641	-1.818612	0.009054410504617	0.004725226092125	0.000357557391284

519	minimi	-3.939746	-3.532841	-22.123637	-0.008957543444963	-0.003304643795166	-0.000339477983932
520	massimi	3.481145	3.506107	-5.064526	0.009017712810212	0.004785157066712	0.000360298374436
520	minimi	-3.905372	-3.452382	-18.422392	-0.008997998814271	-0.003287748253945	-0.00034183032997
521	massimi	3.452242	3.505006	-7.337223	0.008967607823512	0.004789915510614	0.000359446976953
521	minimi	-3.870458	-3.451503	-16.136023	-0.009061831489551	-0.00327971945842	-0.000340433583139
522	massimi	3.422012	3.503583	-7.378637	0.008910724161895	0.004780161619281	0.000360899679185
522	minimi	-3.833957	-3.450316	-16.0471	-0.009118733730221	-0.003283031781884	-0.000341592062155
523	massimi	3.656881	3.506829	-0.453569	0.007162730065648	0.004351795903296	0.000464460743623
523	minimi	-3.575047	-3.529818	-22.327505	-0.007657560437338	-0.005157747398222	-0.000469427526947
524	massimi	3.65728	3.376388	-1.849849	0.007151617962707	0.004352682268988	0.000475184711644
524	minimi	-3.57543	-3.400974	-20.650353	-0.00765786802872	-0.005266497649656	-0.000480031057814
525	massimi	3.65762	3.244097	-3.23654	0.007159978769833	0.004346560855645	0.000469602496943
525	minimi	-3.575759	-3.270264	-18.951169	-0.00765210353693	-0.005366768301348	-0.000474519923897
526	massimi	3.618907	3.11093	-4.021305	0.007183111210795	0.004345066891975	0.000472488243117
526	minimi	-3.535436	-3.138664	-17.97147	-0.007603585154865	-0.005436785360468	-0.000477317639287
527	massimi	3.581079	3.111223	-3.312414	0.007220976084349	0.004344736715906	0.000474948823903
527	minimi	-3.496029	-3.13891	-18.798201	-0.007535395095142	-0.005449193678554	-0.000479802341576
528	massimi	3.543691	3.111112	-1.822479	0.007247273982633	0.004351568306187	0.000474585574058
528	minimi	-3.457114	-3.138753	-20.374457	-0.007455131646686	-0.005444217699611	-0.000479244231188
529	massimi	3.524519	3.2442	1.272962	0.007265543640427	0.004352565903957	0.000473376092923
529	minimi	-3.436437	-3.270312	-23.869341	-0.007401532994203	-0.005373633454399	-0.000477986201054
530	massimi	3.524449	3.376388	2.376515	0.00726194339421	0.004352682268988	0.000475048130159
530	minimi	-3.436353	-3.400974	-25.285439	-0.007383283451003	-0.005266497649656	-0.000479905602918
531	massimi	3.524251	3.506735	3.484476	0.007262871349384	0.004345796376467	0.000468231394832
531	minimi	-3.436141	-3.529779	-26.67422	-0.007396155098567	-0.005150887766653	-0.000472890859333
532	massimi	3.544037	3.636468	3.069757	0.007244790035642	0.004343792168207	0.000465326836206
532	minimi	-3.457444	-3.657953	-26.454434	-0.007450147924196	-0.005076669618787	-0.000470074331491
533	massimi	3.581079	3.636477	2.328947	0.007220976084349	0.004343364001242	0.000475283982696
533	minimi	-3.496029	-3.657918	-25.627458	-0.007535395095142	-0.005062910954669	-0.000480134283952
534	massimi	3.61849	3.636619	1.615529	0.007185638899073	0.004350283605753	0.000463232458465
534	minimi	-3.535036	-3.658011	-24.796045	-0.007608612618643	-0.005084091981263	-0.00046815069279
535	massimi	1.957491	3.626085	5.543618	0.009513677830124	0.008497229147756	0.000266965992818
535	minimi	-1.996071	-3.62748	-29.53035	-0.010016637835925	-0.009039943784202	-0.000303205370403
536	massimi	1.958402	3.558418	5.001633	0.009492043843864	0.008456738309674	0.00027371043056
536	minimi	-1.996963	-3.571634	-28.791879	-0.010007586913427	-0.009113557973543	-0.000310444977786
537	massimi	1.959302	3.489167	4.539202	0.009511652856752	0.008402698269696	0.000269406657953
537	minimi	-1.997868	-3.514194	-28.099443	-0.010012668165257	-0.009172565065924	-0.000305619506136
538	massimi	1.927813	3.419279	1.446811	0.009584229218509	0.008370734955123	0.000271220014379
538	minimi	-1.954556	-3.456128	-24.894967	-0.010009257879063	-0.009216508016178	-0.000307434240809
539	massimi	1.896473	3.41868	-1.793744	0.009696472065395	0.008363063314011	0.000273562656283
539	minimi	-1.911405	-3.455526	-21.772495	-0.010008647439501	-0.009222566743336	-0.000310297091229
540	massimi	1.864845	3.417799	-4.986534	0.009793117751776	0.008379895329495	0.000273314480974
540	minimi	-1.867955	-3.454665	-18.664326	-0.009991937039647	-0.009226592672571	-0.000309558682713
541	massimi	1.833711	3.488283	-7.798166	0.009859050455188	0.008411177840746	0.000273174202355
541	minimi	-1.824981	-3.513319	-16.167828	-0.009981667159804	-0.009181898604163	-0.000309441004085
542	massimi	1.834673	3.558418	-6.169699	0.009862588298749	0.008456738309673	0.000273574128699
542	minimi	-1.825949	-3.571634	-18.026353	-0.009970156983396	-0.009113557973543	-0.000310306722518
543	massimi	1.8355	3.626977	-3.773964	0.009857177310707	0.00848870272938	0.000270727711553
543	minimi	-1.826755	-3.628363	-20.61852	-0.009977849318028	-0.009030563398638	-0.000307021042685
544	massimi	1.865913	3.695012	-0.753131	0.009791359146905	0.008514197419359	0.000268913379206
544	minimi	-1.869015	-3.684552	-23.751437	-0.009988381680488	-0.00897962717923	-0.000305205332091
545	massimi	1.896473	3.69426	0.158685	0.009696472065395	0.008516993360854	0.000273721901142
545	minimi	-1.911405	-3.68382	-24.578743	-0.010008647439501	-0.008968522405263	-0.000310454607241
546	massimi	1.926739	3.693506	3.115882	0.009586071897106	0.008523442414162	0.000266824739213
546	minimi	-1.95349	-3.683062	-27.417746	-0.010012897311948	-0.008989796456053	-0.000303086716789
547	massimi	2.278082	3.355415	5.467849	0.007221637182803	0.005269493997028	0.000242645559952
547	minimi	-2.164985	-3.469524	-23.622545	-0.00806297571886	-0.006390683643347	-0.000263055100479
548	massimi	2.278475	3.309052	5.373271	0.0072058401372	0.005230274012122	0.000251016077265
548	minimi	-2.165302	-3.429781	-23.148781	-0.008055132859194	-0.006436654802797	-0.00027133368431
549	massimi	2.278814	3.260926	5.339087	0.007223551157919	0.005182739576611	0.000247672317848
549	minimi	-2.165584	-3.388199	-22.710448	-0.008061317868115	-0.00647236847559	-0.000267839455428
550	massimi	2.262074	3.214141	2.930087	0.007284506141755	0.005153714551234	0.000250786093482
550	minimi	-2.142244	-3.347915	-20.136203	-0.008065742651791	-0.006499755142112	-0.000270754826702
551	massimi	2.245175	3.214389	0.321709	0.007377086201208	0.005147545958653	0.000250762300534
551	minimi	-2.118805	-3.348091	-17.766968	-0.008075360388574	-0.006503936970863	-0.000271096070759
552	massimi	2.227474	3.214412	-2.27949	0.007457788617597	0.005159883583899	0.000253547853254
552	minimi	-2.094642	-3.348048	-15.380034	-0.008071975819227	-0.006507991609719	-0.000273262897345
553	massimi	2.209776	3.261086	-5.002027	0.007513653241715	0.005188462325957	0.000252647794935
553	minimi	-2.0705	-3.388277	-13.276923	-0.008070827238885	-0.006480001379594	-0.000272358309093

554	massimi	2.21019	3.309052	-4.664774	0.007519088241305	0.005230274012122	0.000250835726805
554	minimi	-2.070852	-3.429781	-14.018444	-0.008063572511024	-0.006436654802797	-0.000271169866065
555	massimi	2.210481	3.35535	-4.145768	0.007515600324987	0.005263704584442	0.000247632692343
555	minimi	-2.071072	-3.469542	-14.916517	-0.008069202496296	-0.006382984076105	-0.000267585569847
556	massimi	2.227898	3.400874	-1.511495	0.00745958152479	0.005288768295844	0.00024451648731
556	minimi	-2.094988	-3.508471	-17.716034	-0.008070468627507	-0.006350644347834	-0.000264667769176
557	massimi	2.245175	3.400946	0.776154	0.007377086201208	0.005292475455462	0.000251089498984
557	minimi	-2.118805	-3.508483	-19.789623	-0.008075360388574	-0.006344058015397	-0.000271407475063
558	massimi	2.261642	3.400981	3.107192	0.007282731565212	0.005295057753177	0.000241743109703
558	minimi	-2.141891	-3.508439	-21.881314	-0.008067268174159	-0.006359001240109	-0.000262148080697
559	massimi	2.688687	3.793336	-1.929797	0.004230622491774	0.006719148840591	0.000208300477887
559	minimi	-2.456678	-3.873515	-19.872501	-0.005015183695995	-0.007313856853978	-0.000236230705512
560	massimi	2.689202	3.799439	-3.843093	0.004219759807015	0.00670415014916	0.000210389753337
560	minimi	-2.45713	-3.888658	-17.747715	-0.005015378182772	-0.007402558222079	-0.000238125096331
561	massimi	2.6895	3.803394	-5.157148	0.004230055388012	0.006678360139072	0.000207557426634
561	minimi	-2.457393	-3.901597	-16.191655	-0.005012548760884	-0.007479343392817	-0.000235308545735
562	massimi	2.742094	3.80639	-7.065965	0.004270014651247	0.006663662369127	0.000207155558736
562	minimi	-2.500912	-3.913535	-14.254343	-0.004983330672783	-0.007533802538632	-0.000234634177099
563	massimi	2.794109	3.806413	-8.050369	0.004331320309903	0.006658156286149	0.000210423568029
563	minimi	-2.543947	-3.913414	-13.483491	-0.004942110431515	-0.007541218739606	-0.000238181110529
564	massimi	2.844758	3.806293	-8.037337	0.004385682844618	0.006668251822012	0.000206859917798
564	minimi	-2.585774	-3.913164	-13.679573	-0.004892963307916	-0.007540200405551	-0.000233836335744
565	massimi	2.895054	3.80334	-5.357807	0.004422729822678	0.006682602265508	0.000207029166858
565	minimi	-2.627303	-3.901381	-16.784877	-0.004860410444077	-0.00748525635804	-0.000233876358878
566	massimi	2.895475	3.799439	-3.200628	0.004425886758168	0.00670415014916	0.000210408737591
566	minimi	-2.627678	-3.888658	-19.184164	-0.004849424458452	-0.007402558222079	-0.000238176807592
567	massimi	2.895889	3.79338	-1.030985	0.00442280971043	0.006714901253199	0.000207778598724
567	minimi	-2.62804	-3.873723	-21.565194	-0.004857893761094	-0.0073079384278	-0.000234804899269
568	massimi	2.845251	3.790024	0.62314	0.004385245994398	0.006724617259942	0.000208207698451
568	minimi	-2.586209	-3.861427	-23.247814	-0.004890615936789	-0.007247876846625	-0.000235506499734
569	massimi	2.794109	3.790165	0.145107	0.004331320309903	0.006723544709155	0.000210374973887
569	minimi	-2.543947	-3.861441	-22.586848	-0.004942110431515	-0.00723452648714	-0.000238120844382
570	massimi	2.741607	3.790152	-0.121124	0.004270516975338	0.006729216575903	0.00020849706711
570	minimi	-2.500483	-3.86128	-22.106947	-0.004985743517781	-0.00725428457662	-0.000236298068809
571	massimi	3.243145	3.237754	-1.164605	0.00426816758986	0.005075222131954	0.000472494248768
571	minimi	-2.885333	-3.931391	-5.122837	-0.004285224851796	-0.006047465665512	-0.000430957008125
572	massimi	3.243541	3.283449	0.604988	0.001027826680991	0.005046731796243	0.000484855034705
572	minimi	-2.885364	-3.963445	-6.571589	-0.004286231876283	-0.00604965632496	-0.00044144894171
573	massimi	3.244136	3.328135	2.529678	0.001031920756127	0.005010115032095	0.000473779145365
573	minimi	-2.885579	-3.994066	-8.165894	-0.004287359411928	-0.006042105213177	-0.000430876809167
574	massimi	3.090384	3.37292	4.425021	0.001035800359573	0.004984523631724	0.000476705248056
574	minimi	-2.745751	-4.024528	-10.776891	-0.00426957324286	-0.006038692829518	-0.000432991506512
575	massimi	2.935889	3.373098	4.446016	0.001039868056033	0.004972064227755	0.000484617605338
575	minimi	-2.605335	-4.024552	-11.842893	-0.004243337585758	-0.006034291297656	-0.000441277614175
576	massimi	2.779628	3.373239	4.510535	0.001042301363474	0.004976772879169	0.000482562693729
576	minimi	-2.46336	-4.024484	-12.942503	-0.004210307927655	-0.006040426839485	-0.000438185364356
577	massimi	2.622465	3.328312	2.716319	0.001046352526749	0.005002952694288	0.000484317710839
577	minimi	-2.320529	-3.994027	-12.516276	-0.004190477441641	-0.006043706083795	-0.000440220961041
578	massimi	2.623197	3.283449	0.939237	0.001047900293632	0.005046731796243	0.000484473692734
578	minimi	-2.320867	-3.963445	-11.070122	-0.004183719895666	-0.00604965632496	-0.000441110843916
579	massimi	2.623492	3.237603	-0.726216	0.001050558420718	0.005082388099448	0.000482876161206
579	minimi	-2.320811	-3.931454	-9.724967	-0.004191713898599	-0.006045868424582	-0.000440144506962
580	massimi	2.780232	3.19183	-2.315443	0.001046974243014	0.005105084543938	0.000480207065549
580	minimi	-2.463521	-3.899314	-7.420085	-0.004212237270352	-0.006044970563813	-0.000438286816651
581	massimi	2.935889	3.192057	-2.467571	0.001039868056033	0.005101380097483	0.00048471116475
581	minimi	-2.605335	-3.899359	-6.233037	-0.004243337585758	-0.006041021574125	-0.0004412822141
582	massimi	3.08979	3.192063	-2.579579	0.001031095204901	0.005097327235655	0.000474482100864
582	minimi	-2.7456	-3.899184	-5.075852	-0.00426761162503	-0.006046698018052	-0.000433225439795
583	massimi	3.237559	1.518604	-0.116437	0.010720527772516	0.003770216733622	0.000314276286822
583	minimi	-2.866796	-1.691734	-15.665114	-0.01171813342683	-0.005004023127724	-0.000313462204511
584	massimi	3.237858	1.512505	-0.198197	0.010708902710474	0.003743378932503	0.000319990752815
584	minimi	-2.866993	-1.685269	-15.169678	-0.011712776637795	-0.005050746078864	-0.000318288403968
585	massimi	3.238044	1.505893	-0.223106	0.010724266941921	0.003711107450401	0.000313645464125
585	minimi	-2.867092	-1.678184	-14.709537	-0.011718001772181	-0.005089929664068	-0.000312484556094
586	massimi	3.230725	1.499273	-3.894352	0.010752655972448	0.003691955209473	0.000314181812189
586	minimi	-2.860124	-1.671	-10.897265	-0.011697597238301	-0.005119469848194	-0.000312585002409
587	massimi	3.223077	1.499385	-6.184834	0.010796737248255	0.003687144128806	0.000319946423842
587	minimi	-2.852956	-1.670912	-8.901192	-0.011670467346877	-0.005123794572019	-0.000318279586105
588	massimi	3.214094	1.499424	-3.649662	0.010823429302358	0.003695021591961	0.000316172729555

588	minimi	-2.844684	-1.670744	-11.709291	-0.011624540975698	-0.005125123151649	-0.000313832899782
589	massimi	3.204844	1.505972	-0.580859	0.01084435162958	0.003713939794487	0.000317229299061
589	minimi	-2.836242	-1.678022	-15.487423	-0.01159606536934	-0.005095152128894	-0.000314731004859
590	massimi	3.205168	1.512505	-0.935504	0.010841726086476	0.003743378932503	0.000319860980692
590	minimi	-2.836463	-1.685269	-15.568158	-0.011581844605765	-0.005050746078864	-0.000318207052395
591	massimi	3.205347	1.518543	-1.146471	0.010848098246301	0.003768129293381	0.000317861013111
591	minimi	-2.836556	-1.691914	-15.770719	-0.011595941162007	-0.004999545563744	-0.000315709544628
592	massimi	3.21439	1.528599	-2.886952	0.010826889516714	0.003785993960518	0.00031730951241
592	minimi	-2.844869	-1.702487	-14.171264	-0.011624424839262	-0.004967616684684	-0.000315593945678
593	massimi	3.223077	1.528673	-3.464688	0.010796737248255	0.003787486366887	0.000319905281309
593	minimi	-2.852956	-1.70236	-13.320823	-0.011670467346877	-0.004960381402068	-0.000318215841903
594	massimi	3.230434	1.528708	-2.769185	0.010749199881506	0.003788252507356	0.000315317704337
594	minimi	-2.859945	-1.70219	-13.721696	-0.011697717498152	-0.00497246215249	-0.000314345157598
595	massimi	2.817873	0.462458	2.974062	0.005632541198575	-0.000279875236505	0.000470443953424
595	minimi	-2.377827	-0.596182	-9.74906	-0.006623177130732	-0.002661290523045	-0.000432183263067
596	massimi	2.81796	0.326306	3.139129	0.005628561479435	-0.000282030625265	0.000476914489541
596	minimi	-2.377853	-0.447443	-8.954162	-0.006617185709186	-0.002686385478078	-0.000437236716917
597	massimi	2.817948	0.199958	3.306897	0.005639650829737	-0.000283715145454	0.000471315696754
597	minimi	-2.37777	-0.308434	-8.154424	-0.006621497940417	-0.002707170274378	-0.000432811822453
598	massimi	2.813228	0.122359	1.331517	0.005656785742747	-0.000286348777438	0.000471575901919
598	minimi	-2.385595	-0.218078	-5.520573	-0.006621821608003	-0.002720875654328	-0.000432641573124
599	massimi	2.809713	0.121872	-0.790618	0.005681187516411	-0.000289342908179	0.000476893028713
599	minimi	-2.394749	-0.217379	-3.708424	-0.006624892868028	-0.002719974132284	-0.000437250323433
600	massimi	2.80655	0.121327	-1.447414	0.005696440222894	-0.00029173211791	0.000471362611112
600	minimi	-2.404514	-0.216591	-3.354416	-0.006617295098409	-0.002718286416022	-0.00043159523983
601	massimi	2.804707	0.200476	-0.601978	0.005709648252709	-0.000288684362214	0.00047093176315
601	minimi	-2.415728	-0.308681	-5.472139	-0.006613039110938	-0.002704782598229	-0.000430928468223
602	massimi	2.804793	0.326306	-1.057123	0.005711271749507	-0.000282030625265	0.000476928392256
602	minimi	-2.415726	-0.447443	-5.98466	-0.006606312747313	-0.002686385478078	-0.000437304906698
603	massimi	2.804766	0.462126	-1.489803	0.005716760799752	-0.000274920071924	0.000470059928756
603	minimi	-2.415655	-0.59612	-6.511785	-0.006611362836503	-0.002663664147014	-0.000430299817773
604	massimi	2.806588	0.599097	-2.142601	0.005703011145421	-0.000271678377457	0.000469793395154
604	minimi	-2.404473	-0.745883	-6.517457	-0.006615745809783	-0.00264830098038	-0.000430463738665
605	massimi	2.809713	0.599239	-1.298467	0.005681187516411	-0.000273593283033	0.000476949841243
605	minimi	-2.394749	-0.745787	-7.059307	-0.006624892868028	-0.002642140525486	-0.00043729128834
606	massimi	2.813186	0.59965	0.691076	0.005650216434669	-0.000277036333923	0.000470006777044
606	minimi	-2.385632	-0.745981	-8.738361	-0.006623372511078	-0.002645737126081	-0.000431510163043
607	massimi	4.89186	1.004244	-1.366192	0.010839853511639	0.006716573624586	0.000201286084515
607	minimi	-4.855866	-0.965797	-14.510042	-0.010828736961369	-0.006517325424504	-0.000194244908753
608	massimi	4.891908	1.002634	-2.272875	0.010827498470962	0.006687512552137	0.000194971560742
608	minimi	-4.855937	-0.961884	-13.65504	-0.01082553878231	-0.00656157571551	-0.000187818980876
609	massimi	4.891631	1.001246	-2.285581	0.010840514187046	0.006647682653842	0.00020159979339
609	minimi	-4.855682	-0.958217	-13.672428	-0.010829770507808	-0.006595260018626	-0.00019464042405
610	massimi	4.953331	1.00167	-3.628057	0.010864106945288	0.006620732670848	0.000197850951173
610	minimi	-4.919657	-0.956371	-12.327576	-0.010804375660236	-0.006617295937771	-0.00019089909234
611	massimi	5.013507	1.001793	-3.508534	0.010902287502075	0.006607649356829	0.000195276186951
611	minimi	-4.98211	-0.956478	-12.414634	-0.010769046124066	-0.006612994809969	-0.000188122995236
612	massimi	5.070596	1.001883	-0.760768	0.010922910696857	0.006614733900938	0.00018818791172
612	minimi	-5.041497	-0.956548	-15.108348	-0.01071637382878	-0.006610902669703	-0.000181173024304
613	massimi	5.126253	1.001475	1.062163	0.010938963874562	0.006642139805102	0.00018420845343
613	minimi	-5.099468	-0.958426	-16.84699	-0.010683531565267	-0.006589352683207	-0.000177135636867
614	massimi	5.126181	1.002634	0.566505	0.010933808884132	0.006687512552137	0.000195601253355
614	minimi	-5.099415	-0.961884	-16.321216	-0.010669799543046	-0.00656157571551	-0.000188452780887
615	massimi	5.126025	1.003945	0.535759	0.010939624383156	0.006722117743813	0.000183896000535
615	minimi	-5.099285	-0.965518	-16.238811	-0.010684564944893	-0.006523234030408	-0.00017674137755
616	massimi	5.07046	1.011968	-2.353333	0.010923520987403	0.006744899974945	0.000187625028544
616	minimi	-5.041388	-0.975878	-13.352095	-0.010717328624163	-0.006497147482842	-0.000180462895052
617	massimi	5.013507	1.01273	-3.564598	0.010902287502075	0.006740835921016	0.000195296590189
617	minimi	-4.98211	-0.976619	-12.19486	-0.010769046124066	-0.006484116625801	-0.000188148729571
618	massimi	4.953467	1.013516	-2.984991	0.010863496562378	0.006738898910222	0.00019728680919
618	minimi	-4.919766	-0.977391	-12.806955	-0.010803420772489	-0.006490751919961	-0.000190187704281
619	massimi	4.377586	1.218465	-4.110415	0.010625510888354	0.005294223747128	0.000176404485937
619	minimi	-4.394037	-1.189594	-18.531336	-0.010721710066746	-0.004797744626583	-0.000171630782931
620	massimi	4.37759	1.215657	-4.324047	0.010609961631736	0.005244436490232	0.000170942460235
620	minimi	-4.39406	-1.185236	-18.459859	-0.010719855702409	-0.004855442767076	-0.000166173512088
621	massimi	4.377308	1.212675	-4.407152	0.010625488932976	0.005186205159552	0.000176835104034
621	minimi	-4.393793	-1.180721	-18.487183	-0.010722839835476	-0.0049053233597	-0.000172122472237
622	massimi	4.430419	1.209806	-6.971135	0.010665575387063	0.005147018493417	0.000173606467076
622	minimi	-4.448446	-1.176331	-16.022729	-0.01069090634271	-0.004938228019814	-0.000168933965541

623	massimi	4.48221	1.2099	-7.732631	0.010728668797675	0.005133454999668	0.000171204101789
623	minimi	-4.501768	-1.176436	-15.25019	-0.010645715696822	-0.004937915770919	-0.000166431884396
624	massimi	4.531274	1.209942	-6.112835	0.010774483566576	0.005142257676728	0.000165145577066
624	minimi	-4.552351	-1.176488	-16.827166	-0.01058338001618	-0.004933221597398	-0.000160512338384
625	massimi	4.579078	1.212768	-3.900272	0.010807149431257	0.005181806720805	0.000161607677511
625	minimi	-4.601674	-1.180828	-18.886244	-0.010544083313624	-0.004900697999703	-0.000156965716219
626	massimi	4.578979	1.215657	-4.508316	0.010804795116897	0.005244436490231	0.000171493883471
626	minimi	-4.60159	-1.185236	-18.167757	-0.010529324077389	-0.004855442767076	-0.000166722376672
627	massimi	4.578801	1.21833	-4.481537	0.010807126183515	0.005298621584316	0.000161176574131
627	minimi	-4.60143	-1.189447	-18.052395	-0.010545211789989	-0.004802369385021	-0.00015647354163
628	massimi	4.531109	1.221345	-7.536842	0.010774462325101	0.005334543386582	0.000164369937804
628	minimi	-4.552206	-1.194013	-14.897561	-0.010584422881305	-0.004766487616954	-0.000159626775041
629	massimi	4.48221	1.221505	-8.424424	0.010728668797675	0.005334603736284	0.000171232176124
629	minimi	-4.501768	-1.194182	-14.052733	-0.010645715696822	-0.004753699397355	-0.000166463938572
630	massimi	4.430585	1.221627	-6.401972	0.010665595912993	0.005329783656367	0.000172831302882
630	minimi	-4.448592	-1.194317	-16.086294	-0.01068986276204	-0.004761482281012	-0.000168048877265
631	massimi	3.500821	1.212355	-4.267943	0.010540262737174	0.004432887783792	0.000156758429576
631	minimi	-3.531481	-1.201754	-18.74321	-0.010715436519204	-0.00374264663314	-0.000150881391298
632	massimi	3.500758	1.209259	-4.610443	0.010524289882598	0.00438515457996	0.000153719952371
632	minimi	-3.531427	-1.196751	-18.605423	-0.010713670948068	-0.003804546886578	-0.000147843127649
633	massimi	3.500537	1.205954	-4.703188	0.010539489926544	0.004330364208584	0.000157254567117
633	minimi	-3.53121	-1.191548	-18.68497	-0.010716382759134	-0.003860325118065	-0.000151402637384
634	massimi	3.509892	1.202744	-7.977885	0.010580228541246	0.004292927445964	0.000155172445199
634	minimi	-3.542478	-1.186443	-15.596618	-0.010683498782718	-0.003896644587221	-0.000149358246922
635	massimi	3.518364	1.202809	-9.124567	0.010644577444757	0.00427962327559	0.000153887649775
635	minimi	-3.552848	-1.186529	-14.463721	-0.010636956805584	-0.003897154352076	-0.000148007751228
636	massimi	3.536155	1.202821	-7.24033	0.01069178232259	0.004286748440286	0.000149528863216
636	minimi	-3.572517	-1.186558	-16.329225	-0.01057328307682	-0.003890443018521	-0.000143783892939
637	massimi	3.568371	1.206006	-4.5727	0.010725158121344	0.004324655561045	0.000147097901268
637	minimi	-3.606602	-1.191622	-18.805553	-0.01053304155574	-0.003854595623988	-0.000141370577294
638	massimi	3.568293	1.209259	-4.714011	0.010722618538293	0.00438515457996	0.000154087805802
638	minimi	-3.60653	-1.196751	-18.491949	-0.010518026440059	-0.003804546886578	-0.000148206469684
639	massimi	3.568143	1.212281	-4.56386	0.010724387249897	0.004438595533445	0.000146600505028
639	minimi	-3.606389	-1.201658	-18.437389	-0.010533989734853	-0.003748375229331	-0.00014084807251
640	massimi	3.53602	1.217486	-7.539831	0.01069106973567	0.004473471038662	0.000148634239966
640	minimi	-3.57239	-1.208757	-15.275072	-0.010574158763546	-0.003709897832285	-0.000142844075992
641	massimi	3.518364	1.21755	-8.549945	0.010644577444757	0.004473283825302	0.000153920018014
641	minimi	-3.552848	-1.208838	-14.283594	-0.010636956805584	-0.003696841738085	-0.000148041755721
642	massimi	3.510061	1.217626	-6.793286	0.010580942201852	0.004467293654649	0.000154279072007
642	minimi	-3.542639	-1.208935	-16.026566	-0.010682624169677	-0.003703697885251	-0.000148419680032
643	massimi	3.315504	1.2124	-4.394446	0.010544454046091	0.004178990475725	0.000165294581274
643	minimi	-3.377581	-1.214729	-18.658025	-0.010730625515243	-0.003477212955347	-0.000155247700814
644	massimi	3.315538	1.211274	-4.6208	0.01052826647066	0.004129194430691	0.000164610857014
644	minimi	-3.37762	-1.210346	-18.64009	-0.010728684588208	-0.003537286407674	-0.000154561861625
645	massimi	3.315446	1.209981	-4.673018	0.010543294198747	0.004072766667121	0.000165785130348
645	minimi	-3.377524	-1.205796	-18.763794	-0.010731218176229	-0.003591681487734	-0.000155740112714
646	massimi	3.313314	1.208804	-7.860351	0.010584146419076	0.004035371425307	0.000164652123516
646	minimi	-3.378673	-1.201365	-15.769927	-0.010698276730726	-0.003628218658822	-0.000154662944627
647	massimi	3.310448	1.208795	-9.221083	0.0106482351461	0.004024488971439	0.000164701411823
647	minimi	-3.379064	-1.201397	-14.426459	-0.010651796390607	-0.003631206702478	-0.000154647867483
648	massimi	3.305775	1.208736	-7.479335	0.010696349940042	0.004033581082431	0.000161381534458
648	minimi	-3.377604	-1.201373	-16.152874	-0.010588160592177	-0.003626437117972	-0.000151530101309
649	massimi	3.300346	1.20994	-4.671046	0.010729836682206	0.004071112877389	0.000159898658698
649	minimi	-3.375372	-1.2058	-18.769631	-0.010547851612137	-0.003590035830414	-0.000150101574159
650	massimi	3.300381	1.211274	-4.711679	0.010727117607572	0.004129194430691	0.000164824061111
650	minimi	-3.375405	-1.210346	-18.553075	-0.010532633442961	-0.003537286407674	-0.000154766089215
651	massimi	3.300274	1.212438	-4.532559	0.010728678458299	0.00418064313161	0.0001594065751
651	minimi	-3.3753	-1.214723	-18.523776	-0.010548445896559	-0.003478857478821	-0.000149607627736
652	massimi	3.305734	1.217805	-7.470844	0.010695279526852	0.004215323049614	0.000160496563621
652	minimi	-3.377564	-1.223315	-15.392026	-0.010588709365099	-0.003440013743906	-0.000150641777512
653	massimi	3.310448	1.217513	-8.672249	0.01064882351461	0.004217514778558	0.000164733425842
653	minimi	-3.379064	-1.223056	-14.205854	-0.010651796390607	-0.003429330227437	-0.000154680002897
654	massimi	3.313351	1.21723	-7.045	0.01058521773113	0.00421353475456	0.000163768683666
654	minimi	-3.37871	-1.222815	-15.81594	-0.010697728856668	-0.003438234250879	-0.000153776151816
655	massimi	3.137537	1.183699	-4.562194	0.010538740293087	0.004166573445684	0.000159802857491
655	minimi	-3.249608	-1.205649	-18.402336	-0.010756790638236	-0.003607409933558	-0.000146248523726
656	massimi	3.137759	1.183636	-4.666282	0.010522600663203	0.004112511789772	0.000161165206953
656	minimi	-3.249826	-1.201199	-18.46044	-0.010754591599734	-0.003662722647968	-0.00014764257379
657	massimi	3.137875	1.183356	-4.456113	0.010537454673561	0.004051860728433	0.000160307569417

657	minimi	-3.249926	-1.196519	-18.800478	-0.010756836744564	-0.003712170401938	-0.00014671797896
658	massimi	3.129052	1.183123	-7.307589	0.010577730748639	0.004014261785235	0.000160075746082
658	minimi	-3.24554	-1.19189	-16.106865	-0.010723723891066	-0.003748073602041	-0.000146569117689
659	massimi	3.119452	1.183028	-9.089361	0.010641594451193	0.004008265566869	0.000161182609301
659	minimi	-3.240338	-1.191866	-14.35286	-0.010677215758175	-0.003755809328281	-0.000147653217563
660	massimi	3.108421	1.182887	-7.45949	0.010688319426172	0.004022179673652	0.000159036054205
660	minimi	-3.233629	-1.191786	-15.978094	-0.010613511524877	-0.003756096957245	-0.000145772105045
661	massimi	3.101089	1.18321	-4.604271	0.010721235076023	0.004059175051267	0.000158435774255
661	minimi	-3.230586	-1.196452	-18.698618	-0.010573013606483	-0.003719582168165	-0.000145282990149
662	massimi	3.101175	1.183636	-4.574646	0.010718353664633	0.004112511789772	0.000161233029488
662	minimi	-3.23066	-1.201199	-18.598381	-0.010557463964529	-0.003662722647968	-0.000147694581593
663	massimi	3.101123	1.183853	-4.266176	0.010719950171558	0.004159262927081	0.000157929149303
663	minimi	-3.2306	-1.205725	-18.744653	-0.010573060427872	-0.003600001971564	-0.000144811621888
664	massimi	3.108443	1.185684	-6.895462	0.010687132137976	0.004193422622818	0.000158125039987
664	minimi	-3.23364	-1.211877	-15.957504	-0.01061355465138	-0.003560962624936	-0.000144924550508
665	massimi	3.119452	1.185062	-8.642254	0.010641594451193	0.004200438290536	0.000161215559895
665	minimi	-3.240338	-1.211317	-14.215274	-0.010677215758175	-0.003555101415312	-0.000147683870576
666	massimi	3.128853	1.184445	-7.278065	0.01057891843275	0.004201333640275	0.000159166645104
666	minimi	-3.245353	-1.21077	-15.551771	-0.010723681160478	-0.003568979109178	-0.000145723476392
667	massimi	2.901566	1.943556	-0.859378	0.007890139158412	0.012439166506101	0.000163341670604
667	minimi	-2.942516	-1.857533	-12.697095	-0.007815406759005	-0.012259961290909	-0.00016588804571
668	massimi	2.986309	1.845592	0.220579	0.007925568830057	0.012309958139491	0.00015303888325
668	minimi	-3.025676	-1.76159	-13.718107	-0.00766918338879	-0.012367189672548	-0.000156290157268
669	massimi	2.986309	2.033593	5.461381	0.007925568830057	0.012407288423497	0.000142453344509
669	minimi	-3.025676	-1.945912	-18.732501	-0.00766918338879	-0.011993969199276	-0.000144729480246
670	massimi	2.903375	2.035115	6.46965	0.007928223389359	0.012504850360958	0.000160638887615
670	minimi	-2.944244	-1.947437	-19.852992	-0.007773532643175	-0.012156357610585	-0.000163325056508
671	massimi	3.06568	1.943556	1.931547	0.00798684504982	0.012439166506101	0.00013294357933
671	minimi	-3.103389	-1.857533	-15.202875	-0.007548753684614	-0.012259961290909	-0.000135926604264
672	massimi	3.066395	1.848044	4.058976	0.007971338918458	0.012435431561785	0.000157154774776
672	minimi	-3.104043	-1.764026	-17.383993	-0.007609537348061	-0.012422604998646	-0.000160413045335
673	massimi	3.064674	2.032723	5.869259	0.008021559564159	0.012526448408411	0.000152236449422
673	minimi	-3.102475	-1.944988	-18.969057	-0.007661060133837	-0.012179662161308	-0.000155041756512
674	massimi	2.901662	1.845674	-2.296261	0.007956322259083	0.012457006536656	0.000165555643604
674	minimi	-2.942683	-1.7616	-11.312299	-0.00780293652974	-0.012445886476786	-0.000168694775966
675	massimi	2.981336	1.724718	-1.398132	0.006739832302244	0.012406263997276	0.000136522168236
675	minimi	-2.90122	-1.552713	-12.909751	-0.00666447247283	-0.012321209483272	-0.000128427338429
676	massimi	3.042384	1.746229	4.922449	0.006772146342174	0.012117625159967	0.000119451567047
676	minimi	-2.967187	-1.568925	-19.103191	-0.006503486894447	-0.012283481770531	-0.000111917676257
677	massimi	3.042384	1.697904	-1.220716	0.006772146342174	0.012534215029591	0.000125211582764
677	minimi	-2.967187	-1.531926	-12.852567	-0.006503486894447	-0.012199351842079	-0.000115727883029
678	massimi	2.981932	1.69872	-2.721717	0.00678505636718	0.012598274034216	0.000136275060631
678	minimi	-2.901687	-1.532589	-11.468331	-0.006625014572307	-0.012333446660984	-0.000126785225714
679	massimi	3.097989	1.724718	2.462632	0.006806103999986	0.012406263997276	0.000107829987578
679	minimi	-3.027854	-1.552713	-16.47172	-0.006344089474839	-0.012321209483272	-0.000098901095666
680	massimi	3.097799	1.74662	6.553716	0.006822888525285	0.012301109525301	0.000126007223944
680	minimi	-3.02747	-1.569221	-20.55354	-0.006442458252874	-0.012393468993227	-0.000117195532296
681	massimi	3.098219	1.698687	1.5808	0.006823189863495	0.012594730112943	0.000128529847909
681	minimi	-3.028192	-1.532663	-15.47373	-0.006443377614671	-0.012331690946835	-0.000118812443737
682	massimi	2.982342	1.746998	5.417065	0.006785475893731	0.012297547288477	0.000133840309374
682	minimi	-2.902401	-1.569706	-19.714006	-0.006626052122445	-0.012391694963526	-0.00012525618698
683	massimi	2.593258	2.335609	-2.035049	0.006115414470854	0.010064195240665	0.000197486616577
683	minimi	-2.685494	-2.289741	-14.661569	-0.006224628741412	-0.009767141355237	-0.000194362331837
684	massimi	2.689493	2.235386	-6.161088	0.006246918550744	0.009936490747028	0.000189734876238
684	minimi	-2.783345	-2.187883	-10.617164	-0.006124181228375	-0.009941756246572	-0.000187391994581
685	massimi	2.689493	2.426461	2.519701	0.006246918550744	0.010061501921749	0.000176866764473
685	minimi	-2.783345	-2.382423	-18.922654	-0.006124181228375	-0.009465978866923	-0.000174003936612
686	massimi	2.594882	2.427884	3.797494	0.006193112728507	0.010134141354409	0.000197956738557
686	minimi	-2.687101	-2.383885	-20.230814	-0.006200934301738	-0.009621396960727	-0.000194894729655
687	massimi	2.784228	2.335609	-3.209462	0.006392850582721	0.010064195240665	0.000169450817896
687	minimi	-2.879518	-2.289741	-13.35065	-0.006038136351616	-0.009767141355237	-0.000167367518669
688	massimi	2.784928	2.237743	-4.1284	0.006343804771492	0.010044969487451	0.000196281148988
688	minimi	-2.880179	-2.190297	-12.542508	-0.006087191933028	-0.00996079608268	-0.000193744690181
689	massimi	2.782952	2.425996	1.670561	0.006373032602837	0.01015097748217	0.000190300169529
689	minimi	-2.878285	-2.381863	-17.968143	-0.00611857821589	-0.009639050028954	-0.000187522189451
690	massimi	2.593328	2.235897	-4.735668	0.006208998376558	0.010061796794088	0.000203934102674
690	minimi	-2.685627	-2.188317	-12.070978	-0.006218978401306	-0.009978440329783	-0.000201113615042
691	massimi	2.914796	2.034243	-7.46876	0.00535687854845	0.010098815907592	0.000191053293219
691	minimi	-2.870327	-1.893385	-13.254438	-0.005469426578194	-0.00985711720929	-0.000183132481963

692	massimi	3.006039	2.055944	-4.853139	0.005499829907948	0.009862810107827	0.000173649274281
692	minimi	-2.966305	-1.909968	-15.87367	-0.005317957787566	-0.010003977724389	-0.000166309400267
693	massimi	3.006039	2.008066	-2.831267	0.005499829907948	0.010203955619779	0.000178601676063
693	minimi	-2.966305	-1.872923	-17.590178	-0.005317957787566	-0.009582523432531	-0.000169665077333
694	massimi	2.915455	2.008952	-3.1055	0.005443876245739	0.010255935611552	0.000194558756937
694	minimi	-2.870889	-1.873696	-17.368463	-0.00542809451737	-0.009740821758971	-0.000185495783497
695	massimi	3.092311	2.034243	-6.580556	0.005643949405954	0.010098815907592	0.000161554624545
695	minimi	-3.057389	-1.893385	-13.940368	-0.005167619591762	-0.00985711720929	-0.000153193098876
696	massimi	3.091904	2.056429	-4.618141	0.00560748405676	0.010012582334949	0.000184205430311
696	minimi	-3.05682	-1.910395	-15.958444	-0.005256049114002	-0.010041466574786	-0.00017576391051
697	massimi	3.092338	2.00903	-1.925393	0.005607740307262	0.010252827452153	0.000186497400963
697	minimi	-3.057502	-1.873831	-18.347433	-0.005258061596943	-0.009738924147065	-0.00017731418102
698	massimi	2.915866	2.056864	-4.367348	0.005444093851021	0.010009470716662	0.000192256010211
698	minimi	-2.871547	-1.910886	-16.410374	-0.005430068355091	-0.010039565503992	-0.000183934736912
699	massimi	3.83554	3.58362	3.689016	0.008659760061752	0.009705512422574	0.000390927565947
699	minimi	-3.717135	-3.336965	-24.775554	-0.009061243345602	-0.009557058383005	-0.000359573472721
700	massimi	3.945676	3.532874	1.760708	0.008684639026543	0.009939581092235	0.000385835161082
700	minimi	-3.837848	-3.297043	-22.862541	-0.00887998488879	-0.00958498934162	-0.000352841400344
701	massimi	3.835761	3.533327	1.358276	0.008682951437052	0.009871732374281	0.000397033054321
701	minimi	-3.717281	-3.297397	-22.372298	-0.009009381901713	-0.00959230524277	-0.000363883297482
702	massimi	3.945676	3.629624	6.382019	0.008684639026543	0.009471435428745	0.000363865053855
702	minimi	-3.837848	-3.37249	-27.580701	-0.00887998488879	-0.009529120932899	-0.000333153100623
703	massimi	4.05072	3.58362	5.384221	0.008709719754802	0.009705512422574	0.000357664986792
703	minimi	-3.953618	-3.336965	-26.5982	-0.008698925783885	-0.009557058383005	-0.000325313366047
704	massimi	4.050366	3.629819	6.821568	0.008714688841256	0.009574498722621	0.000376539406822
704	minimi	-3.953133	-3.372641	-28.059481	-0.008779351767459	-0.00955683912957	-0.000343859082111
705	massimi	4.051562	3.533635	3.952675	0.008714417849777	0.009867849864855	0.000384879972348
705	minimi	-3.954507	-3.297782	-25.093912	-0.008779308514764	-0.009588123059255	-0.000351365597614
706	massimi	3.836941	3.630133	6.28918	0.008682711604714	0.009570601831708	0.000388781043572
706	minimi	-3.718638	-3.373033	-27.399879	-0.00900936980816	-0.009552642564566	-0.000356465336757
707	massimi	2.068575	2.373111	-3.372065	0.005919253551488	0.008244103475956	0.000217805975868
707	minimi	-2.171703	-2.361056	-13.661174	-0.006132021715414	-0.007802858441603	-0.000215335665838
708	massimi	2.097162	2.26351	-6.671367	0.006041310518877	0.008103951043292	0.00021433127121
708	minimi	-2.201498	-2.250222	-10.587777	-0.006016003622369	-0.007973876742305	-0.000212508604415
709	massimi	2.097162	2.474331	0.081284	0.006041310518877	0.008277439744283	0.000201182157414
709	minimi	-2.201498	-2.46356	-16.782958	-0.006016003622369	-0.007530743102239	-0.000199222837108
710	massimi	2.069522	2.475324	1.244434	0.005998210537704	0.008329025067907	0.00022307080728
710	minimi	-2.172661	-2.464616	-17.922063	-0.006106882946224	-0.007666282552093	-0.000220847525786
711	massimi	2.173398	2.373111	-4.040855	0.006178758309707	0.008244103475956	0.000197967107677
711	minimi	-2.278744	-2.361056	-12.964239	-0.005915371132962	-0.007802858441603	-0.000196654068805
712	massimi	2.173872	2.265026	-4.693181	0.006138091190505	0.008205266925008	0.000223765326647
712	minimi	-2.279214	-2.251814	-12.511002	-0.005975360016501	-0.00798239038961	-0.000221921279262
713	massimi	2.172341	2.47422	-0.018969	0.006155921820302	0.008338277079139	0.000217653785516
713	minimi	-2.277705	-2.463363	-16.630673	-0.005996396818848	-0.007675703006202	-0.000215746260929
714	massimi	2.068543	2.26481	-5.005564	0.006001549640867	0.008214519917082	0.00022917824485
714	minimi	-2.171703	-2.251449	-12.226606	-0.006113428221938	-0.007991811824562	-0.000227018440556
715	massimi	2.306543	2.044471	-8.169585	0.005199251435872	0.00803216865178	0.000228867981264
715	minimi	-2.285969	-1.965672	-14.711201	-0.005523619128241	-0.00769485694887	-0.000225194215646
716	massimi	2.336131	2.071406	-6.690313	0.005366670569097	0.007782399904449	0.000216043428601
716	minimi	-2.317754	-1.990262	-16.346896	-0.005361312614229	-0.007874271374832	-0.000212715725518
717	massimi	2.336131	2.014022	-5.432228	0.005366670569097	0.00817789566239	0.000220834175924
717	minimi	-2.317754	-1.937903	-17.178818	-0.005361312614229	-0.007415772919149	-0.000216613230423
718	massimi	2.307323	2.015028	-4.950325	0.005296298082427	0.008197799041595	0.000238539011386
718	minimi	-2.286693	-1.93885	-17.610096	-0.00547762928683	-0.007554740918136	-0.000234300269792
719	massimi	2.420773	2.044471	-8.029846	0.005535248998313	0.00803216865178	0.000207802870487
719	minimi	-2.404626	-1.965672	-14.844981	-0.00520016429017	-0.00769485694887	-0.000203925267851
720	massimi	2.420321	2.071988	-6.258699	0.005487797161389	0.007915669313778	0.000230767345
720	minimi	-2.404088	-1.990812	-16.719719	-0.005293248511849	-0.007881805188044	-0.000226887910734
721	massimi	2.420624	2.01493	-4.314776	0.005487738619916	0.008202596080087	0.000232791728191
721	minimi	-2.40453	-1.938778	-18.23972	-0.005295640946566	-0.007559573619372	-0.000228497370788
722	massimi	2.306752	2.072184	-5.697689	0.005296208222614	0.007920474731166	0.00023651882789
722	minimi	-2.28626	-1.991034	-17.286654	-0.005479990403207	-0.007886646268175	-0.000232695009433
723	massimi	3.069286	4.157764	-0.09751	0.004761684460204	0.007798060279242	0.000295441343207
723	minimi	-2.994366	-3.932202	-25.87621	-0.005020369782767	-0.00730784803191	-0.000287219091417
724	massimi	3.068967	4.127217	-2.049216	0.004886157830752	0.008027896718811	0.00029611185132
724	minimi	-2.996858	-3.904673	-23.76548	-0.004888856408197	-0.00728170073556	-0.000286512720178
725	massimi	3.06976	4.127787	-1.999683	0.004815018045898	0.007956034943997	0.000302339999764
725	minimi	-2.994758	-3.90518	-23.784254	-0.004979878847417	-0.007302501147212	-0.000293239454633
726	massimi	3.068967	4.182757	1.793882	0.004886157830752	0.007568270320598	0.000274053963283

726	minimi	-2.996858	-3.954492	-27.928385	-0.004888856408197	-0.007334047860896	-0.000266541511262
727	massimi	3.115347	4.157764	-0.033635	0.005010996357652	0.007798060279241	0.00027478707185
727	minimi	-3.04615	-3.932202	-25.941845	-0.004757708156665	-0.00730784803191	-0.000265897740477
728	massimi	3.115044	4.183181	1.970576	0.004973341095267	0.007664201242694	0.000286727613553
728	minimi	-3.045749	-3.954867	-28.07551	-0.004813134123907	-0.007335735218787	-0.000278145962774
729	massimi	3.11617	4.127906	-1.924967	0.004973191729649	0.007957100456241	0.000294774734501
729	minimi	-3.047037	-3.905351	-23.860727	-0.004813736777848	-0.007303562519651	-0.000285430357345
730	massimi	3.069619	4.1833	1.835668	0.00481491087183	0.007665270818606	0.000294266574432
730	minimi	-2.994778	-3.955038	-27.938845	-0.004980523692907	-0.007336800654893	-0.000285928755677
731	massimi	1.938885	2.379042	-3.981118	0.005926864049291	0.007891364230471	0.000199380732798
731	minimi	-2.072694	-2.378979	-13.040715	-0.006154677468635	-0.007463414336089	-0.000206032356496
732	massimi	1.951758	2.272932	-6.639236	0.006036865541121	0.007747848988578	0.000199911951184
732	minimi	-2.081369	-2.277773	-10.608504	-0.006026649488211	-0.007630922613923	-0.000207280084115
733	massimi	1.951758	2.477127	-0.422441	0.006036865541121	0.007932632323893	0.000186621615708
733	minimi	-2.081369	-2.472161	-16.284626	-0.006026649488211	-0.007199205712669	-0.000193989032025
734	massimi	1.939273	2.477761	0.26953	0.006006625399376	0.007982690787194	0.000206382212729
734	minimi	-2.073071	-2.472911	-16.944171	-0.006130481281967	-0.007333381787156	-0.000214109578863
735	massimi	1.962833	2.379042	-3.994155	0.006160687029846	0.007891364230471	0.00018739838605
735	minimi	-2.087999	-2.378979	-13.016317	-0.005912439397518	-0.007463414336089	-0.000195487617511
736	massimi	1.963123	2.274132	-4.794294	0.006132758842619	0.007850876246559	0.000209286835559
736	minimi	-2.088335	-2.27904	-12.406881	-0.005985264886433	-0.007641346124012	-0.000217460780223
737	massimi	1.962889	2.477413	0.218361	0.006137000460959	0.007984836976276	0.000203109079092
737	minimi	-2.088101	-2.472378	-16.881704	-0.005992616072242	-0.007335595974357	-0.00021122869088
738	massimi	1.939162	2.274527	-4.896659	0.005997949332675	0.007853022016024	0.000212554949418
738	minimi	-2.072959	-2.27925	-12.315814	-0.006124914782734	-0.007643559891595	-0.000220282648427
739	massimi	2.140008	2.03888	-8.204239	0.00519391107808	0.007702278647243	0.000201917115885
739	minimi	-2.159349	-2.000811	-15.026095	-0.005609200357709	-0.007369115365749	-0.000204482122695
740	massimi	2.152741	2.055555	-6.829118	0.005357783564528	0.007456436927096	0.000193545361366
740	minimi	-2.170538	-2.019339	-16.601115	-0.005437133493813	-0.007560465388396	-0.00019642387769
741	massimi	2.152741	2.020978	-5.539501	0.005357783564528	0.007848379291861	0.000197557380257
741	minimi	-2.170538	-1.981218	-17.46981	-0.005437133493813	-0.007082342629942	-0.000200004353729
742	massimi	2.14046	2.021948	-4.900999	0.005290415701499	0.007866966235375	0.000212911249967
742	minimi	-2.15976	-1.982194	-18.009802	-0.005560406277546	-0.00722262029399	-0.00021564773474
743	massimi	2.163058	2.03888	-8.133861	0.005530486766417	0.007702278647243	0.000189409142468
743	minimi	-2.179276	-2.000811	-15.184724	-0.005273913725487	-0.007369115365749	-0.000192171544151
744	massimi	2.163365	2.056241	-6.376348	0.005480770970009	0.007587368393611	0.000207635871063
744	minimi	-2.179562	-2.020012	-17.040917	-0.005367808188505	-0.007563680581097	-0.000210626671409
745	massimi	2.16316	2.021815	-4.880246	0.005481232364841	0.00786891845954	0.000209497843531
745	minimi	-2.179424	-1.982035	-18.118311	-0.005370690416244	-0.007224044362119	-0.000212288186408
746	massimi	2.140273	2.056329	-6.133164	0.005288275665371	0.007589334906563	0.00021105083029
746	minimi	-2.15964	-2.020075	-17.196346	-0.005560687074325	-0.007565118938014	-0.000213987772531
747	massimi	2.78191	3.790642	-0.791418	0.005638145307692	0.006525191036862	0.000614138272992
747	minimi	-2.662231	-3.751461	-27.34382	-0.00647675429295	-0.006535262631517	-0.000608307940255
748	massimi	2.955381	3.745066	-2.342491	0.005757954551426	0.006736259818881	0.000613285438517
748	minimi	-2.837752	-3.708044	-25.978184	-0.006316373043985	-0.006466137411811	-0.000606729782166
749	massimi	2.78278	3.745692	-2.355376	0.005691093689707	0.00666901608172	0.000631121964723
749	minimi	-2.663078	-3.708618	-25.750448	-0.006428323290702	-0.006501628458211	-0.000624667607575
750	massimi	2.955381	3.831584	0.825189	0.005757954551425	0.006314401510418	0.000594298431276
750	minimi	-2.837752	-3.790299	-29.139294	-0.006316373043985	-0.006604666982464	-0.000588105234968
751	massimi	3.125427	3.790642	-0.716312	0.005880905727596	0.006525191036862	0.000593270723331
751	minimi	-3.010012	-3.751461	-27.783229	-0.006159126833736	-0.006535262631517	-0.000586352203409
752	massimi	3.125383	3.831976	0.875909	0.005843488460736	0.006401160156708	0.000616555167753
752	minimi	-3.009933	-3.790649	-29.338831	-0.006224910522018	-0.006589580072912	-0.000609835541629
753	massimi	3.125355	3.745679	-2.25497	0.005843532932934	0.006670387845781	0.000623503037381
753	minimi	-3.009933	-3.708689	-26.214511	-0.006224939543691	-0.006502143569607	-0.000616650924267
754	massimi	2.782732	3.831977	0.82023	0.005691167552107	0.006402539402819	0.000624191272349
754	minimi	-2.663058	-3.790735	-28.919495	-0.006428381702577	-0.006590102666358	-0.00061786940219
755	massimi	1.826099	2.373458	-3.705755	0.005930663446157	0.007898187495266	0.000202920293927
755	minimi	-2.008595	-2.390117	-13.110177	-0.006196570992704	-0.007648639629906	-0.000223003478439
756	massimi	1.802727	2.241659	-6.491213	0.006037544066413	0.007761728456857	0.000207947520285
756	minimi	-1.973055	-2.272722	-10.461168	-0.006068282642082	-0.007818338120817	-0.000228873340023
757	massimi	1.802727	2.500972	-0.052048	0.006037544066413	0.007932326676153	0.000194359969962
757	minimi	-1.973055	-2.503606	-16.585054	-0.006068282642082	-0.007379855755504	-0.000215474628158
758	massimi	1.825532	2.501065	0.213204	0.006008344439758	0.007990540749943	0.000213615390252
758	minimi	-2.007984	-2.503897	-16.795117	-0.006172363466704	-0.007523014966444	-0.000236007677495
759	massimi	1.791674	2.373458	-3.117361	0.006146002203942	0.007898187495266	0.000199647000648
759	minimi	-1.949512	-2.390117	-13.732757	-0.005941578148873	-0.007648639629906	-0.000221619431819
760	massimi	1.791848	2.24272	-4.494928	0.006130936530345	0.00786885853681	0.000219034156742
760	minimi	-1.949806	-2.273392	-12.434603	-0.006026871445343	-0.007835818840926	-0.000241854199808

761	massimi	1.792036	2.501498	0.958273	0.006124032280698	0.007980585702606	0.00021271948922
761	minimi	-1.949965	-2.504087	-17.574181	-0.006021780459198	-0.007512855322934	-0.000235627250023
762	massimi	1.826806	2.243715	-4.887288	0.006001140908462	0.007858875636675	0.000219925241394
762	minimi	-2.009228	-2.274143	-12.008247	-0.00616697319891	-0.007825631344619	-0.0002422298109
763	massimi	1.918566	2.044665	-8.226849	0.005119078405609	0.007725920873316	0.000203373406312
763	minimi	-1.961603	-2.050052	-14.453508	-0.005628383860023	-0.007549101760305	-0.000206944615907
764	massimi	1.897823	2.079024	-6.280555	0.00527512559016	0.007481706402441	0.000199155066085
764	minimi	-1.938672	-2.086925	-16.55876	-0.005456199745192	-0.007731070227144	-0.000202920924069
765	massimi	1.897823	2.005487	-5.447782	0.00527512559016	0.007870078439342	0.000205261476553
765	minimi	-1.938672	-2.008336	-17.168139	-0.005456199745192	-0.007269368264842	-0.000209088394767
766	massimi	1.91839	2.006578	-5.051802	0.005210956969557	0.007893945874488	0.000218976517527
766	minimi	-1.961422	-2.00947	-17.410121	-0.005579320255483	-0.007413937436118	-0.000223011703666
767	massimi	1.880843	2.044665	-7.599944	0.00543230709034	0.007725920873316	0.000200286672787
767	minimi	-1.919427	-2.050052	-15.281799	-0.005285187324951	-0.007549101760305	-0.000204310974959
768	massimi	1.881247	2.079663	-5.895213	0.005389495713626	0.007616912673609	0.000215004570296
768	minimi	-1.919856	-2.087584	-16.989186	-0.005383704601824	-0.007743301760743	-0.000219135016953
769	massimi	1.881141	2.00642	-4.613078	0.005389110234427	0.007886844455577	0.000218132062152
769	minimi	-1.919741	-2.009254	-18.049099	-0.005384603926657	-0.007405630780999	-0.000222290872108
770	massimi	1.918946	2.079628	-5.47407	0.005210575911531	0.007609789859516	0.000215779933928
770	minimi	-1.961969	-2.08749	-17.210074	-0.005580224001489	-0.007734973710443	-0.000219786756768
771	massimi	2.458805	3.235979	-0.503941	0.007486835031121	0.005054830069636	0.000800329353159
771	minimi	-2.210312	-3.365272	-25.725839	-0.008560973436784	-0.006107109590123	-0.000787678602715
772	massimi	2.716927	3.200157	-1.989229	0.007587370556259	0.005241979037312	0.000791703838513
772	minimi	-2.472871	-3.333966	-24.848919	-0.008400151121887	-0.006032889205604	-0.00077852224717
773	massimi	2.459855	3.200755	-1.921447	0.007535187680873	0.005182258156566	0.000820418909184
773	minimi	-2.211388	-3.334482	-24.620642	-0.008516032107483	-0.006070908997335	-0.000806811000291
774	massimi	2.716927	3.26935	1.083139	0.007587370556259	0.004868071253278	0.000786440065062
774	minimi	-2.472871	-3.393944	-27.234797	-0.008400151121887	-0.006181707135484	-0.000772062387402
775	massimi	2.972162	3.235979	-0.0795	0.007688101330461	0.005054830069636	0.000777665661773
775	minimi	-2.732885	-3.365272	-26.680525	-0.00823951402221	-0.006107109590123	-0.000762757143214
776	massimi	2.971671	3.269751	1.569672	0.007662986492417	0.004944860925545	0.000810209289043
776	minimi	-2.732395	-3.394287	-27.955793	-0.008311936249025	-0.006165406436316	-0.00079533892161
777	massimi	2.972026	3.200596	-1.58337	0.0076641075929	0.005181281473341	0.000812139167923
777	minimi	-2.732657	-3.334499	-25.488024	-0.008311443079801	-0.006068685452397	-0.000797705995924
778	massimi	2.459822	3.269622	1.024751	0.007536326721766	0.004943864236328	0.000818497333978
778	minimi	-2.211261	-3.394334	-26.881566	-0.008515556878669	-0.006163162885386	-0.000804452429652
779	massimi	2.066353	1.940941	1.021426	0.007598369499419	0.008385627891943	0.000163781118439
779	minimi	-2.365777	-1.998813	-16.177684	-0.007998440833617	-0.008260530288508	-0.000155712025299
780	massimi	2.077015	1.966577	-3.137845	0.007726077110162	0.008284655098215	0.000164043879278
780	minimi	-2.380472	-2.020077	-12.168517	-0.007915545036459	-0.00843307483964	-0.000157332009208
781	massimi	2.077015	1.91902	3.260028	0.007726077110162	0.008378259018523	0.000163973516207
781	minimi	-2.380472	-1.981018	-18.408342	-0.007915545036459	-0.007981265502448	-0.000157917666074
782	massimi	2.066069	1.919169	3.657506	0.007699191405667	0.008454599797344	0.000176260023861
782	minimi	-2.365611	-1.981386	-18.666525	-0.008009129375428	-0.00813517849099	-0.000169087699477
783	massimi	2.08481	1.940941	-1.201838	0.007855973511858	0.008385627891943	0.000164555722584
783	minimi	-2.391723	-1.998813	-14.165141	-0.007834877109923	-0.008260530288508	-0.000159852498178
784	massimi	2.08439	1.966216	-4.55009	0.007845867566492	0.008387738650957	0.000176503665637
784	minimi	-2.391369	-2.019978	-10.825684	-0.007915744315332	-0.008457386506177	-0.000169944976212
785	massimi	2.085657	1.920638	3.533331	0.007826257765277	0.008439887869069	0.000176459210828
785	minimi	-2.392535	-1.982422	-18.751888	-0.007897043497723	-0.008119205462888	-0.00017020525056
786	massimi	2.06731	1.968175	0.149281	0.007679266668973	0.008373206560196	0.000176279141902
786	minimi	-2.366749	-2.021504	-15.315518	-0.007990113622341	-0.008441593315589	-0.00016880208836
787	massimi	2.380865	1.746669	-4.488636	0.006256247251201	0.008117623082036	0.000262942766294
787	minimi	-2.398899	-1.802256	-14.92342	-0.006871410727048	-0.008132430769303	-0.000265893719125
788	massimi	2.334211	1.630376	-1.767027	0.006405324563533	0.007841543325679	0.00027322301669
788	minimi	-2.350478	-1.687868	-17.777574	-0.006742013966311	-0.008216835384887	-0.000275947315136
789	massimi	2.334211	1.859346	-6.10303	0.006405324563533	0.008288617087906	0.000260564721623
789	minimi	-2.350478	-1.912792	-13.460279	-0.006742013966311	-0.007942748470438	-0.000263919850376
790	massimi	2.380572	1.859646	-4.824268	0.006350104265464	0.008308944574135	0.000282966545719
790	minimi	-2.398646	-1.913136	-14.506616	-0.006847143044942	-0.008067703632866	-0.000286357717083
791	massimi	2.286002	1.746669	-5.645529	0.006555863985116	0.008117623082036	0.00027112559892
791	minimi	-2.30047	-1.802256	-14.140983	-0.006614148817288	-0.008132430769303	-0.000274256978897
792	massimi	2.286386	1.631783	-2.172094	0.006520931675837	0.007990008408759	0.000291079601734
792	minimi	-2.300918	-1.689299	-17.512534	-0.006700556396187	-0.008263205093199	-0.000294227304613
793	massimi	2.286842	1.859309	-5.495671	0.00652101229395	0.008299766548664	0.000285200510811
793	minimi	-2.301275	-1.912776	-14.207567	-0.006700529418599	-0.008056284590398	-0.000288640910729
794	massimi	2.381123	1.631484	-0.876039	0.0063502836359	0.007980865138392	0.00028884713078
794	minimi	-2.399098	-1.688977	-18.436235	-0.006847214819678	-0.008251820805836	-0.000291945605105
795	massimi	3.280381	3.153509	0.127067	0.005399935485558	0.00654948737446	0.000214739028918

795	minimi	-3.189702	-3.505252	-17.497277	-0.00698813418695	-0.006887799649447	-0.000244765679505
796	massimi	3.247644	3.135571	-1.318831	0.005437839466994	0.00669521349057	0.00022566867414
796	minimi	-3.14701	-3.477183	-16.623737	-0.006854192417265	-0.006861669183695	-0.000256856832752
797	massimi	3.280523	3.136118	-1.713877	0.005421918711514	0.006652539214251	0.000227027048502
797	minimi	-3.189932	-3.477767	-15.747061	-0.006949928622291	-0.006883367186971	-0.000258338824281
798	massimi	3.247644	3.167363	2.549075	0.005437839466994	0.006403821855548	0.000211662830724
798	minimi	-3.14701	-3.528746	-20.270933	-0.006854192417265	-0.006913986535907	-0.000239597006381
799	massimi	3.210725	3.153509	1.101225	0.005475878552282	0.00654948737446	0.000222655621689
799	minimi	-3.100276	-3.505252	-19.395441	-0.00672036826644	-0.006887799649447	-0.000251751305372
800	massimi	3.211043	3.167833	3.048292	0.0054701508338	0.006467535674583	0.000224803057569
800	minimi	-3.100733	-3.529201	-21.211279	-0.006779929312951	-0.006916595078928	-0.000254585143608
801	massimi	3.211459	3.135951	-0.798169	0.005471348908328	0.006652609877484	0.000229900429532
801	minimi	-3.100896	-3.477673	-17.585137	-0.006780608393005	-0.006881265066626	-0.000260871916761
802	massimi	3.280924	3.167653	2.215454	0.005423145090072	0.006467585442873	0.000221887134255
802	minimi	-3.190079	-3.529093	-19.456073	-0.006950636006374	-0.006914472063641	-0.000252009508844
803	massimi	3.422528	3.679694	-5.427883	0.008859629497983	0.00463035457435	0.000348738154787
803	minimi	-3.834493	-3.613862	-18.938933	-0.009193408247597	-0.003326376552129	-0.000328438338777
804	massimi	3.453738	3.591771	-6.389186	0.008954703395441	0.004818423184993	0.000361773872665
804	minimi	-3.872136	-3.532125	-17.582975	-0.009048791473201	-0.003274761959013	-0.000343104855489
805	massimi	3.422569	3.591659	-6.411736	0.008906112198455	0.004755181481607	0.000364683480739
805	minimi	-3.834583	-3.532139	-17.502298	-0.0091515390213	-0.003296987551655	-0.000344887877513
806	massimi	3.453738	3.762856	-4.239195	0.008954703395441	0.00444463092681	0.000332847839854
806	minimi	-3.872136	-3.690928	-20.583659	-0.009048791473201	-0.003380352206064	-0.00031478784058
807	massimi	3.480954	3.679694	-4.060348	0.009078718348417	0.00463035457435	0.000346001274623
807	minimi	-3.905201	-3.613862	-20.36785	-0.008933114592796	-0.003326376552129	-0.000329572074182
808	massimi	3.480828	3.762294	-3.504449	0.009049257188604	0.004519362239033	0.000353109843175
808	minimi	-3.905091	-3.690524	-21.320045	-0.008990309280793	-0.003365543039737	-0.000334951642927
809	massimi	3.481847	3.593317	-4.57821	0.009046465306715	0.004757734637278	0.000363671147934
809	minimi	-3.906158	-3.533496	-19.397097	-0.008989517791555	-0.003299396369694	-0.000345290338462
810	massimi	3.423561	3.763951	-4.427772	0.008906321952792	0.00452045490603	0.000354098181415
810	minimi	-3.835622	-3.69188	-20.335448	-0.009153749168288	-0.003366491369102	-0.000334525187413
811	massimi	3.619009	3.377852	-1.208038	0.007146824077539	0.004346418739588	0.000454072169754
811	minimi	-3.535548	-3.402448	-21.464332	-0.007683712939322	-0.005258919135804	-0.000459151005879
812	massimi	3.582631	3.507403	0.920676	0.007210585067223	0.004345604690471	0.00044695411035
812	minimi	-3.497544	-3.530416	-23.993109	-0.007524551627642	-0.005035175214908	-0.000451731459572
813	massimi	3.619154	3.50756	0.204325	0.007182414567638	0.004354599005981	0.000468013833646
813	minimi	-3.535686	-3.53055	-23.147731	-0.007639128319953	-0.005127268793692	-0.000473040780204
814	massimi	3.582631	3.243853	-1.906896	0.007210585067223	0.004347194630753	0.000470664916854
814	minimi	-3.497544	-3.269999	-20.570237	-0.007524551627642	-0.005482613633858	-0.000475236408675
815	massimi	3.543915	3.377852	0.403089	0.007274617162163	0.004346418739588	0.000463729088619
815	minimi	-3.45732	-3.402448	-23.280286	-0.007365657545276	-0.005258919135804	-0.000468020779938
816	massimi	3.544295	3.244709	-0.713563	0.007263536645042	0.004355610678254	0.000480212459456
816	minimi	-3.457702	-3.270824	-21.84006	-0.007437167453932	-0.00541136340939	-0.000484868515369
817	massimi	3.544677	3.507456	1.662788	0.00726214959774	0.004351239858721	0.000471543161987
817	minimi	-3.458066	-3.530507	-24.810657	-0.007434380567787	-0.00512342799997	-0.000476282390083
818	massimi	3.619614	3.244595	-2.616667	0.007180995317549	0.004352247465526	0.000476678533406
818	minimi	-3.536128	-3.270771	-19.732493	-0.00763630923102	-0.005407518550201	-0.00048162230778
819	massimi	1.927478	3.559961	1.92235	0.009467970494233	0.008444569025136	0.000259452861243
819	minimi	-1.954267	-3.573181	-25.888243	-0.010015976911112	-0.009100443522549	-0.000294855668544
820	massimi	1.897295	3.626944	-0.533758	0.009682518798396	0.008533763245259	0.000258637774165
820	minimi	-1.912233	-3.628294	-23.747759	-0.009994244950732	-0.008953351505576	-0.000294170831087
821	massimi	1.927054	3.626745	2.489486	0.009562425831086	0.008517206271377	0.000269243596062
821	minimi	-1.953819	-3.628133	-26.641279	-0.010025180098892	-0.009024353643141	-0.000305895462976
822	massimi	1.897295	3.488657	-1.690908	0.009682518798396	0.008355463708987	0.000269900384936
822	minimi	-1.912233	-3.513731	-22.162726	-0.009994244950732	-0.009247616346673	-0.000305311135435
823	massimi	1.865364	3.559961	-4.187388	0.009897178717462	0.008444569025136	0.000269094574319
823	minimi	-1.86843	-3.573181	-19.98187	-0.00997262075697	-0.009100443522549	-0.000304635574439
824	massimi	1.865108	3.488826	-4.77255	0.009834912966517	0.008403980402078	0.000276885800453
824	minimi	-1.868212	-3.513875	-19.155124	-0.009997621543232	-0.009211173464932	-0.000313543474188
825	massimi	1.866288	3.627731	-3.070739	0.009833935543377	0.008512427559238	0.000272763577563
825	minimi	-1.869383	-3.629108	-21.284059	-0.009995637963162	-0.009019096721482	-0.000309465956943
826	massimi	1.928242	3.489803	1.410244	0.009561386515423	0.008399236180157	0.00027335672739
826	minimi	-1.954997	-3.514842	-25.134913	-0.010023134626298	-0.009205951033491	-0.000309963888659
827	massimi	2.262027	3.310486	2.796922	0.007185027972881	0.005222747624249	0.000235961568958
827	minimi	-2.142254	-3.431267	-20.854449	-0.008058825708514	-0.006427392427529	-0.000256174102589
828	massimi	2.246148	3.355707	0.383089	0.00736647054092	0.005306807520863	0.000230755979801
828	minimi	-2.119723	-3.46984	-19.061005	-0.008063739908583	-0.006334912216531	-0.00025094240625
829	massimi	2.262042	3.35606	2.911264	0.00726266211978	0.005286143370539	0.000243827779899
829	minimi	-2.142278	-3.470182	-21.340641	-0.008074064829519	-0.006381177653373	-0.000264528008235

830	massimi	2.246148	3.261008	0.142667	0.00736647054092	0.005138934165132	0.000253901112664
830	minimi	-2.119723	-3.388269	-18.034692	-0.008063739908583	-0.006520104204586	-0.000272970190378
831	massimi	2.227736	3.310486	-2.336378	0.007547868998695	0.005222747624249	0.00024871899234
831	minimi	-2.094836	-3.431267	-16.176036	-0.008068601390542	-0.006427392427529	-0.000267761962872
832	massimi	2.227846	3.261659	-2.445814	0.007493034507444	0.005179529113282	0.000256952289835
832	minimi	-2.09499	-3.388872	-15.653147	-0.008080265146352	-0.006498735466947	-0.000276816602404
833	massimi	2.228315	3.35599	-1.952828	0.007494040107227	0.00528289566855	0.000248500513059
833	minimi	-2.095372	-3.470202	-16.93063	-0.008079422737524	-0.006376860291853	-0.000268773240771
834	massimi	2.26252	3.261481	2.740473	0.007263654224389	0.005176330492266	0.000252297683873
834	minimi	-2.142669	-3.388786	-20.385352	-0.008073208925519	-0.0064944671864	-0.000272589497066
835	massimi	2.741806	3.801085	-4.050251	0.004205812063653	0.006694502846883	0.000203912322176
835	minimi	-2.500672	-3.890343	-17.806481	-0.005031213501279	-0.007391905907438	-0.000231868484381
836	massimi	2.79532	3.793523	-2.027517	0.004325087520458	0.006732337769726	0.000205112938101
836	minimi	-2.54505	-3.873758	-20.255649	-0.004934998712333	-0.007214242515078	-0.000232324337697
837	massimi	2.742047	3.794021	-2.098376	0.004256454365613	0.006730524820317	0.000210855661731
837	minimi	-2.500888	-3.874201	-19.9604	-0.0050047068483	-0.007292695431283	-0.000239121884796
838	massimi	2.79532	3.803567	-6.11844	0.004325087520458	0.006656597112037	0.000201633634702
838	minimi	-2.54505	-3.901725	-15.709752	-0.004934998712333	-0.007569489878296	-0.000228019304308
839	massimi	2.84532	3.801085	-3.738449	0.004444573137225	0.006694502846883	0.000202568109993
839	minimi	-2.586263	-3.890343	-18.516179	-0.004838986553945	-0.007391905907438	-0.00022820901699
840	massimi	2.845285	3.804034	-5.90494	0.004408026505946	0.006682432764001	0.000209104291065
840	minimi	-2.58625	-3.902089	-16.096859	-0.00488263140795	-0.00751825095565	-0.000236222416067
841	massimi	2.84583	3.79407	-1.56017	0.004407787700898	0.006728145747757	0.000210367904139
841	minimi	-2.586731	-3.87443	-20.895797	-0.004881322738277	-0.007289380712687	-0.000237787851321
842	massimi	2.742584	3.804093	-5.963358	0.004256167358952	0.006680057711791	0.000209601857777
842	minimi	-2.501361	-3.902328	-15.641249	-0.005003349977015	-0.007514940257405	-0.000237566258662
843	massimi	3.090769	3.284872	0.610391	0.001026813782309	0.005039469526446	0.000454532582743
843	minimi	-2.746293	-3.965163	-7.638055	-0.004296650355098	-0.006040950842246	-0.000414167856767
844	massimi	2.937161	3.237681	-1.177923	0.001038371681214	0.005114340097058	0.000466020358151
844	minimi	-2.606464	-3.931507	-7.219858	-0.004237231403849	-0.006044818635929	-0.000427272685209
845	massimi	3.090424	3.238322	-1.216323	0.001031381552723	0.005093137347047	0.000477860538439
845	minimi	-2.746186	-3.932083	-6.130921	-0.00428124074264	-0.006053607760554	-0.000436278438583
846	massimi	2.937161	3.328543	2.561572	0.001038371681214	0.004964551125772	0.000471439257912
846	minimi	-2.606464	-3.994349	-10.306003	-0.004237231403849	-0.006037022855133	-0.000426398191963
847	massimi	2.779529	3.284872	0.762638	0.00105096958972	0.005039469526446	0.000481510175811
847	minimi	-2.463073	-3.965163	-9.877186	-0.004178812972017	-0.006040950842246	-0.000438086162898
848	massimi	2.779999	3.328958	2.63161	0.001046119090051	0.004998033011507	0.000489784325372
848	minimi	-2.463706	-3.994774	-11.409847	-0.004205822426053	-0.006048659278927	-0.000444783618596
849	massimi	2.780667	3.238155	-0.958085	0.001048732938803	0.005097150504626	0.000487508440109
849	minimi	-2.463884	-3.932153	-8.472345	-0.004206899933065	-0.006052713645639	-0.000444808104672
850	massimi	3.091081	3.328763	2.502237	0.001034019163845	0.005002043496897	0.000479914419134
850	minimi	-2.746353	-3.994816	-9.197288	-0.004282342012021	-0.006047762491823	-0.000436031947939
851	massimi	3.230765	1.51316	-3.936427	0.010704211939341	0.00373799219335	0.000304425697242
851	minimi	-2.8602	-1.686	-11.762866	-0.011729435767598	-0.005043478032495	-0.000304517940138
852	massimi	3.224474	1.51867	-4.690223	0.010781200694699	0.003797664437653	0.000310397485925
852	minimi	-2.854192	-1.69193	-11.719501	-0.011653673491772	-0.004950385802076	-0.000309576457123
853	massimi	3.231013	1.518888	-3.668881	0.010748760700458	0.003782502674919	0.000318103932313
853	minimi	-2.860462	-1.692038	-12.438	-0.011720630163782	-0.004993771113302	-0.000317347662647
854	massimi	3.224474	1.505984	-7.041337	0.0107812006947	0.003681639728427	0.000307486678003
854	minimi	-2.854192	-1.678161	-8.51671	-0.011653673491772	-0.005139873925966	-0.000305066705781
855	massimi	3.21437	1.51316	-4.324384	0.01085806374543	0.00373799219335	0.000313605404906
855	minimi	-2.844889	-1.686	-11.944095	-0.011577774740571	-0.005043478032495	-0.000310272160986
856	massimi	3.214658	1.506247	-4.100149	0.010846444437126	0.003708570353095	0.000320395824743
856	minimi	-2.845188	-1.678315	-11.724742	-0.01162433438456	-0.005113818307368	-0.000317803017091
857	massimi	3.214986	1.518821	-3.669229	0.01084838247134	0.003781333908457	0.000321460315923
857	minimi	-2.845392	-1.692237	-13.00583	-0.011624269713027	-0.004991263913106	-0.000319451956694
858	massimi	3.231335	1.506159	-3.999061	0.010750695699024	0.003706984063105	0.000317040831613
858	minimi	-2.860659	-1.678494	-11.257651	-0.011720562456602	-0.005110893583645	-0.000315700113524
859	massimi	2.813361	0.326447	1.009505	0.005625079032603	-0.000281624781924	0.000461063356055
859	minimi	-2.385702	-0.447637	-7.147599	-0.006621620177161	-0.002682519757269	-0.000424694839542
860	massimi	2.81093	0.462785	-1.178933	0.005673012261973	-0.000272497657264	0.000458531460777
860	minimi	-2.395787	-0.596694	-6.233428	-0.006615359617336	-0.002637428979756	-0.000420803254958
861	massimi	2.813699	0.462651	0.848238	0.005649899185466	-0.000277670947472	0.000475347599575
861	minimi	-2.386063	-0.596393	-7.945657	-0.006630451266482	-0.00265755864702	-0.000436688822128
862	massimi	2.81093	0.19986	-0.931998	0.005673012261973	-0.000290740776449	0.000462550632526
862	minimi	-2.395787	-0.308162	-4.546603	-0.006615359617336	-0.002727585072313	-0.000423701294846
863	massimi	2.806699	0.326447	-1.858405	0.00572088388208	-0.000281624781924	0.000460080114299
863	minimi	-2.404649	-0.447637	-4.894462	-0.006609025814895	-0.002682519757269	-0.000419871087319
864	massimi	2.807058	0.200469	-1.676075	0.00571072805346	-0.000289259222915	0.000476457191932

864	minimi	-2.404962	-0.308671	-4.104693	-0.006622454133283	-0.00271479637277	-0.000435984826836
865	massimi	2.8071	0.462284	-2.024596	0.005714407818518	-0.000274897381522	0.000474988036601
865	minimi	-2.404916	-0.596325	-5.686506	-0.006621586695204	-0.002658886586823	-0.000434925469465
866	massimi	2.813746	0.199897	1.167731	0.005653577761968	-0.000286475311733	0.000476816612805
866	minimi	-2.386023	-0.308398	-6.334817	-0.006629582639847	-0.002716134657805	-0.000437748037398
867	massimi	4.953435	1.003068	-5.745444	0.01082496285357	0.006677889191437	0.000210943107998
867	minimi	-4.919738	-0.962301	-10.187078	-0.01084369128692	-0.006552133578485	-0.000204183464706
868	massimi	5.015679	1.00415	-5.414814	0.010866599061228	0.006754985736808	0.000187863941395
868	minimi	-4.984269	-0.965719	-10.433288	-0.010753549418163	-0.006477453644927	-0.000180770437369
869	massimi	4.954337	1.004444	-4.525076	0.010864874258278	0.006736072054979	0.000202758110508
869	minimi	-4.920627	-0.965991	-11.348536	-0.010827881871246	-0.006513643737606	-0.000195607101918
870	massimi	5.015679	1.001406	-5.176406	0.010886599061228	0.00660071324699	0.000189306893148
870	minimi	-4.984269	-0.958357	-10.753737	-0.010753549418163	-0.006626735665431	-0.000182590534858
871	massimi	5.070973	1.003068	-2.973527	0.010948104199006	0.006677889191437	0.000166422664387
871	minimi	-5.041894	-0.962301	-12.872195	-0.010663278122035	-0.006552133578485	-0.000159372445362
872	massimi	5.071565	1.001669	-2.145741	0.01094306052797	0.006638120160436	0.000187003971838
872	minimi	-5.042461	-0.95861	-13.723121	-0.010713332024561	-0.006608427959442	-0.000179884606457
873	massimi	5.071415	1.004113	-2.975612	0.010943402272246	0.006739176797132	0.00018647738156
873	minimi	-5.042341	-0.965682	-12.811354	-0.010713866686662	-0.006516952587132	-0.000179220161251
874	massimi	4.954187	1.001416	-5.484341	0.010865216070562	0.006641223967307	0.000203286662942
874	minimi	-4.920506	-0.958379	-10.471166	-0.010828416601356	-0.006611735873685	-0.00019627350928
875	massimi	4.430541	1.216184	-7.809689	0.010600324566828	0.005236889722488	0.000185001519782
875	minimi	-4.448554	-1.18575	-15.017623	-0.010740679162477	-0.004848455763053	-0.000180304627338
876	massimi	4.484153	1.218467	-10.154709	0.010713230194926	0.005353354854454	0.000164354522221
876	minimi	-4.503719	-1.189594	-12.518879	-0.01063039646396	-0.004741735477322	-0.000159607359103
877	massimi	4.431366	1.218696	-7.421658	0.010658849774633	0.005318063152535	0.000177641003036
877	minimi	-4.449375	-1.189822	-15.252827	-0.010717293480285	-0.004787231064635	-0.00017279647031
878	massimi	4.484153	1.212771	-9.334883	0.010713230194926	0.005120360502518	0.000166339680962
878	minimi	-4.503719	-1.180818	-13.592113	-0.01063039646396	-0.004955116756028	-0.000161874069651
879	massimi	4.531582	1.216184	-7.961634	0.010826003844573	0.005236889722488	0.000146039816593
879	minimi	-4.552676	-1.18575	-14.811638	-0.01051998280958	-0.004848455763053	-0.000141523934608
880	massimi	4.532141	1.212993	-7.064982	0.010802140767934	0.005170127634228	0.000164110252103
880	minimi	-4.553222	-1.181046	-15.808518	-0.010577166825122	-0.004922713194792	-0.000159434795895
881	massimi	4.531959	1.218547	-7.925003	0.010802128809358	0.005320525832749	0.000163383861053
881	minimi	-4.553062	-1.189659	-14.695539	-0.010577750751158	-0.004789820817533	-0.000158605491568
882	massimi	4.431184	1.212889	-7.864768	0.010658838342831	0.005172590757315	0.000178366642689
882	minimi	-4.449214	-1.180928	-15.062676	-0.010717877933095	-0.004925303390562	-0.000173625023242
883	massimi	3.51012	1.209783	-8.090881	0.010514330900226	0.004378844322757	0.000161851731394
883	minimi	-3.542697	-1.19727	-15.194388	-0.010734894524354	-0.003799072126463	-0.000156014998155
884	massimi	3.519888	1.212389	-9.990398	0.010629259849844	0.004490979090022	0.000147484324649
884	minimi	-3.554388	-1.201783	-13.103271	-0.010621650176805	-0.003683037222199	-0.000141749291643
885	massimi	3.510704	1.212582	-7.566189	0.01057365318821	0.004455515902746	0.000157943669481
885	minimi	-3.543286	-1.201982	-15.503407	-0.01071046078113	-0.003729929624871	-0.000151997715816
886	massimi	3.519888	1.206029	-10.264337	0.010629259849844	0.004266658444812	0.000149773042785
886	minimi	-3.554388	-1.191626	-13.207566	-0.010621650176805	-0.003915063077381	-0.000144153765736
887	massimi	3.536375	1.209783	-8.141615	0.010744058699244	0.004378844322757	0.000135878716659
887	minimi	-3.572749	-1.19727	-15.138689	-0.01050827582298	-0.003799072126463	-0.000130361139844
888	massimi	3.536829	1.206227	-7.801746	0.010719514055442	0.004313087480345	0.00014927093618
888	minimi	-3.573198	-1.19184	-15.640458	-0.010566573187319	-0.003877249663514	-0.000143483952402
889	massimi	3.53668	1.212501	-7.990359	0.010719115110884	0.004458712106217	0.00014843289076
889	minimi	-3.573058	-1.201876	-15.074281	-0.010567063653488	-0.003733137502108	-0.000142603595674
890	massimi	3.510517	1.206169	-8.18423	0.010573253453208	0.004316284344854	0.000158779755759
890	minimi	-3.543109	-1.191758	-15.26293	-0.010710950456855	-0.003880458201788	-0.000152876113401
891	massimi	3.313505	1.211799	-8.104498	0.010518268482019	0.004123252501297	0.000166808992132
891	minimi	-3.378856	-1.21087	-15.229398	-0.010749948419568	-0.003532196236592	-0.000156783290516
892	massimi	3.311883	1.212483	-10.023622	0.010633499809583	0.004235021944347	0.000157939641849
892	minimi	-3.380528	-1.214802	-13.118445	-0.010636468407599	-0.003415257970103	-0.000148227165407
893	massimi	3.313959	1.21262	-7.702499	0.010577808079091	0.004200416583943	0.000166736620027
893	minimi	-3.379327	-1.214954	-15.411993	-0.010725543990554	-0.003463194511759	-0.000156587073245
894	massimi	3.311883	1.210016	-10.268175	0.010633499809583	0.00401143653296	0.000160203281707
894	minimi	-3.380528	-1.205842	-13.259488	-0.010636468407599	-0.003649095274432	-0.000150499393302
895	massimi	3.305901	1.211799	-8.138018	0.010748601480585	0.004123252501297	0.000151752071471
895	minimi	-3.377745	-1.21087	-15.197815	-0.010522196236592	-0.003532196236592	-0.000142361408239
896	massimi	3.306377	1.210158	-7.912411	0.010724053270699	0.004058454898371	0.000162052581631
896	minimi	-3.378221	-1.206017	-15.588927	-0.010581357398832	-0.003611664609516	-0.000152138294234
897	massimi	3.306332	1.212662	-7.896595	0.010723453933308	0.004201342007425	0.000161223501383
897	minimi	-3.378176	-1.214947	-15.21983	-0.010581664782712	-0.003464115381206	-0.000151306074873
898	massimi	3.313918	1.210203	-8.066434	0.010577208079959	0.004059381156623	0.000167563307753
898	minimi	-3.379287	-1.206013	-15.43297	-0.010725850712692	-0.003612586313732	-0.000157416900085

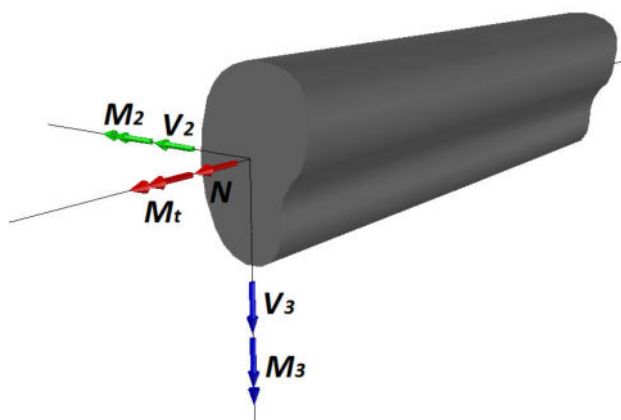
899	massimi	3.129139	1.184149	-8.158982	0.010512843968615	0.004106593866773	0.000158242871398
899	minimi	-3.245624	-1.201719	-15.050964	-0.010775954299725	-0.003657451973571	-0.000144617654038
900	massimi	3.120804	1.183835	-9.993108	0.010626281148821	0.004217868789728	0.000154509266261
900	minimi	-3.241742	-1.205762	-13.081934	-0.010661851196582	-0.003541189165967	-0.000141524722004
901	massimi	3.129419	1.183907	-7.848302	0.010571749553692	0.004185929544768	0.000161330222591
901	minimi	-3.245938	-1.205868	-15.188606	-0.010751504877238	-0.00359161888677	-0.000147653939964
902	massimi	3.120804	1.18334	-10.199496	0.010626281148821	0.003995271521163	0.000156839062442
902	minimi	-3.241742	-1.196529	-13.168559	-0.010661851196582	-0.003773672903213	-0.000143691977024
903	massimi	3.108562	1.184149	-8.002672	0.010739588339146	0.004106593866773	0.000153453861462
903	minimi	-3.233785	-1.201719	-15.23048	-0.010547617664443	-0.003657451973571	-0.000140947449147
904	massimi	3.108982	1.183418	-7.847614	0.010715716399166	0.004044597066107	0.000160428922788
904	minimi	-3.234216	-1.196664	-15.504951	-0.01060652676319	-0.00373923136763	-0.000147102175305
905	massimi	3.109006	1.184077	-7.557071	0.010715051569199	0.004181835961897	0.000159575359143
905	minimi	-3.234228	-1.205951	-15.503	-0.010606550948012	-0.00358747073698	-0.000146308023971
906	massimi	3.129639	1.183579	-7.808193	0.010571084432253	0.004040500682763	0.000162180800562
906	minimi	-3.246145	-1.196738	-15.521208	-0.010751528770588	-0.003735080417368	-0.000148445105623
907	massimi	31.777013	41.260986	0.00	0.00	0.00	0.002259142827669
907	minimi	-31.777013	-41.260986	0.00	0.00	0.00	-0.002259142827669
908	massimi	54.636173	68.713117	0.00	0.00	0.00	0.003805180619481
908	minimi	-54.636173	-68.713117	0.00	0.00	0.00	-0.003805180619481
909	massimi	71.296971	83.719085	0.00	0.00	0.00	0.004859074118152
909	minimi	-71.296971	-83.719085	0.00	0.00	0.00	-0.004859074118152
910	massimi	104.008535	128.914168	0.00	0.00	0.00	0.006961028487713
910	minimi	-104.008535	-128.914168	0.00	0.00	0.00	-0.006961028487713

1.4.9.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N:** sforzo normale;
- **V₂:** sforzo di taglio in direzione 2;
- **V₃:** sforzo di taglio in direzione 3;
- **M_t:** momento torcente;
- **M₂:** momento flettente nel piano 1-2;
- **M₃:** momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 23 (61-56)	53	massimi	0.00	9.18686	19.15877	30.02476	9.87372	41.93458	9.43
Asta 23 (61-56)	53	massimi	204.50	17.94753	1.99041	6.57034	9.87371	-12.32762	8.436

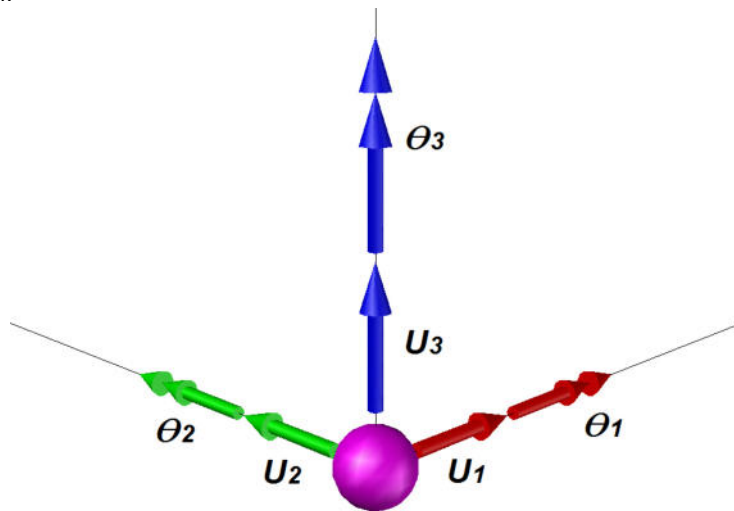
Asta 23 (61-56)	53	massimi	409.00	38.01494	21.23059	72.40522	9.87371	-1.11635	13.495
Asta 23 (61-56)	53	minimi	0.00	-6.29909	-18.00193	-71.42455	1.91486	-52.93551	-7.459
Asta 23 (61-56)	53	minimi	204.50	-20.85067	-1.13885	-30.64341	1.91487	-58.62044	-8.575
Asta 23 (61-56)	53	minimi	409.00	-46.7428	-20.95702	-8.4057	1.91488	-63.62879	-14.851
Asta 25 (56-86)	55	massimi	0.00	17.14708	13.6878	-35.95945	12.72423	71.08159	6.711
Asta 25 (56-86)	55	massimi	166.00	6.06974	6.37878	46.17596	12.72424	-32.9178	9.916
Asta 25 (56-86)	55	massimi	332.00	17.158	34.35747	96.06441	12.72424	80.71143	21.483
Asta 25 (56-86)	55	minimi	0.00	-16.62974	-18.30439	-94.0148	-14.29472	-54.8421	-8.84
Asta 25 (56-86)	55	minimi	166.00	-6.23381	-6.55024	-42.72403	-14.29472	-46.4365	-8.156
Asta 25 (56-86)	55	minimi	332.00	-18.00474	-30.43613	37.17685	-14.29471	-54.83052	-22.846
Asta 26 (91-61)	56	massimi	0.00	17.11128	32.0107	18.6785	14.10755	70.19793	18.151
Asta 26 (91-61)	56	massimi	166.00	4.16881	5.26193	50.29244	14.10755	-0.8737	9.346
Asta 26 (91-61)	56	massimi	332.00	18.48347	15.2691	48.22784	14.10755	69.28815	9.157
Asta 26 (91-61)	56	minimi	0.00	-17.83993	-28.19906	-42.92361	-13.64442	-77.54959	-17.016
Asta 26 (91-61)	56	minimi	166.00	-4.83412	-5.49705	-51.78337	-13.64441	-24.93071	-11.184
Asta 26 (91-61)	56	minimi	332.00	-19.09053	-19.8915	-25.4672	-13.64441	-80.84487	-7.05
Asta 34 (86-91)	64	massimi	0.00	78.4346	20.60646	18.05416	-0.72804	-1.75766	16.701
Asta 34 (86-91)	64	massimi	204.50	44.28091	7.56124	29.93931	-0.72804	-6.71866	8.663
Asta 34 (86-91)	64	massimi	409.00	13.14587	20.18865	65.36569	-0.72803	42.41037	17.876
Asta 34 (86-91)	64	minimi	0.00	-84.69547	-21.91446	-75.55101	-9.12303	-64.98705	-18.407
Asta 34 (86-91)	64	minimi	204.50	-45.54417	-8.20307	-6.15272	-9.12303	-61.18977	-8.454
Asta 34 (86-91)	64	minimi	409.00	-9.42624	-20.6371	-27.85475	-9.12303	-54.43316	-16.61
Asta 48 (146-141)	78	massimi	0.00	30.22763	57.23825	81.72037	45.31087	127.58634	68.76
Asta 48 (146-141)	78	massimi	165.00	113.89232	21.66022	102.9338	45.31088	30.25909	46.268
Asta 48 (146-141)	78	massimi	330.00	198.46082	72.0141	327.37441	45.3109	222.43521	27.776
Asta 48 (146-141)	78	minimi	0.00	-17.54579	-57.4607	-132.0951	-52.51271	-156.44362	-68.411
Asta 48 (146-141)	78	minimi	165.00	-107.66651	-22.65012	-106.83417	-52.51272	-131.3928	-45.437
Asta 48 (146-141)	78	minimi	330.00	-198.64387	-77.3548	-4.97288	-52.51274	-109.72036	-22.175
Asta 50 (156-146)	80	massimi	0.00	130.95049	34.75874	-40.30025	47.47966	78.55042	7.273
Asta 50 (156-146)	80	massimi	190.00	61.80386	12.35678	77.98553	47.47963	22.0715	23.618
Asta 50 (156-146)	80	massimi	380.00	33.71395	91.05179	150.00999	47.47961	135.72544	69.904

146)									
Asta 50 (156-146)	80	minimi	0.00	-126.3916	-33.66726	-187.4939	-57.73715	-44.28617	-7.877
Asta 50 (156-146)	80	minimi	190.00	-58.58911	-12.09253	-44.14805	-57.73713	-113.80245	-26.065
Asta 50 (156-146)	80	minimi	380.00	-31.81102	-95.77851	-102.2787	-57.73712	-127.2047	-68.877

1.4.10 Stato limite ultimo (SLU) - Fondazione A2

1.4.10.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	-0.001206	0.01822	-8.028587	0.000192403773879	0.000116693465892	-0.000002743471996
1	minimi	-0.00382	0.017171	-8.505507	0.000173126331561	0.000112179319923	-0.000003250392065
2	massimi	-0.026447	0.061511	-8.028587	0.000192403773876	0.000116693465888	-0.000002743471995
2	minimi	-0.030076	0.056125	-8.505507	0.000173126331558	0.00011217931992	-0.000003250392064
3	massimi	-0.028658	0.064364	-7.875009	0.000123517801764	0.000232732240996	-0.000002103143394
3	minimi	-0.032715	0.058499	-8.353341	0.000108841269544	0.000220766200158	-0.000002507265373
4	massimi	-0.028899	0.057689	-8.141357	0.000122559706806	-0.000007767707264	-0.000002419374514
4	minimi	-0.032979	0.052867	-8.630407	0.000107920237333	-0.000011162593555	-0.000002853845375
5	massimi	-0.023643	0.057612	-7.775234	0.000247855157794	-0.000006160013399	-0.000002481489589
5	minimi	-0.026774	0.0528	-8.223517	0.000225381783573	-0.000009375884601	-0.000002924484866
6	massimi	-0.023884	0.064441	-7.508886	0.000246897062835	0.000230945532041	-0.000002165258469
6	minimi	-0.027037	0.058566	-7.946451	0.000224460751362	0.000219158506294	-0.000002577904865
7	massimi	0.395193	-0.081874	-8.237258	0.000288874644258	0.000449083204421	0.000036497170689
7	minimi	0.343165	-0.093248	-8.727924	0.000270339324101	0.000367629880712	0.000028148530899
8	massimi	0.733736	-0.122784	-8.338016	-0.000052982575376	0.000049123810098	0.000070367143094
8	minimi	0.613809	-0.13978	-8.832143	-0.000053816832392	0.000043131126483	0.000053498107452
9	massimi	0.895	-0.257808	-8.406999	0.000370852048442	0.000263273703523	0.000094148187549
9	minimi	0.771081	-0.288648	-8.903555	0.000343262205607	0.000255718094476	0.000071296746309
10	massimi	1.37526	-0.535953	-8.499767	0.000235012293399	0.00068652289341	0.000147196500761
10	minimi	1.212579	-0.59703	-8.999776	0.000212615294937	0.000656193950659	0.000127813539025
11	massimi	0.087958	0.076551	-8.537575	0.000212368435968	0.000113976235607	0.000008582190775
11	minimi	0.074291	0.070917	-9.070832	0.000187935532869	0.000089732094712	0.000007624388452
12	massimi	0.062314	0.124334	-8.537575	0.000212368435964	0.000113976235606	0.000008582190771
12	minimi	0.054101	0.113203	-9.070832	0.000187935532866	0.000089732094711	0.000007624388449
13	massimi	0.070009	0.114521	-8.411776	0.000138103620207	0.0002392434165	0.000007447981717
13	minimi	0.060952	0.104461	-8.926867	0.000118843964345	0.000207625738005	0.000006625970779
14	massimi	0.069477	0.13219	-8.624828	0.000137167835725	-0.000022833042603	0.000006747428686

14	minimi	0.060468	0.120162	-9.197481	0.000118107232681	-0.000037248500472	0.000005988137147
15	massimi	0.054321	0.132349	-8.227387	0.000271682955191	-0.000020860933004	0.000006893782866
15	minimi	0.047015	0.1203	-8.748371	0.000243705439267	-0.000035503281288	0.000006115203024
16	massimi	0.053789	0.114362	-8.014336	0.000270747170709	0.000237271306901	0.000007594335897
16	minimi	0.046531	0.104323	-8.477756	0.000242968707602	0.000205880518822	0.000006753036656
17	massimi	0.398169	0.189965	-8.759835	0.000373046893775	-0.000114320614907	0.000100576150995
17	minimi	0.350657	0.187351	-9.308339	0.000342055048381	-0.000160155760451	0.000091594797671
18	massimi	0.699478	0.282609	-8.865923	-0.000156097865543	0.000320815730185	0.000164224559906
18	minimi	0.641209	0.281902	-9.418459	-0.000161973922696	0.00028162679974	0.000152457336824
19	massimi	1.019528	0.133976	-8.938648	0.000572502226397	0.000085290331244	0.000208913868291
19	minimi	0.907051	0.112405	-9.494015	0.000521489874562	0.000051264409949	0.000195190608995
20	massimi	1.288903	-0.319934	-9.035019	0.00037761051215	-0.000542099148004	0.00018470289962
20	minimi	1.128055	-0.402192	-9.594274	0.00033887287741	-0.00055891202462	0.000168871149125
21	massimi	-0.029652	0.01218	-10.262891	0.000099835622541	0.000197943197427	0.000001784622953
21	minimi	-0.040588	0.011425	-11.006631	0.000088900259417	0.000188829920212	0.000001740773726
22	massimi	-0.072139	0.034643	-10.262891	0.000099835622539	0.00019794319742	0.000001784622952
22	minimi	-0.085125	0.031428	-11.006631	0.000088900259416	0.000188829920205	0.000001740773725
23	massimi	-0.069961	0.032453	-9.865485	0.000014300857024	0.000349247642509	0.000001664402308
23	minimi	-0.082894	0.029235	-10.588741	0.000009816538036	0.000328707207103	0.000001652071173
24	massimi	-0.070095	0.036287	-10.313825	0.000012675672803	0.000029830252795	0.000001487323742
24	minimi	-0.083042	0.033126	-11.058718	0.00000826617707	0.00002659349077	0.000001456878775
25	massimi	-0.073223	0.036069	-10.125822	0.00017952741064	0.000030655802556	0.000001317892122
25	minimi	-0.086076	0.032942	-10.847589	0.000162884195352	0.000027520589013	0.000001256946544
26	massimi	-0.073358	0.032671	-9.677482	0.000177902226418	0.000348320544266	0.000001494970689
26	minimi	-0.086224	0.029419	-10.377611	0.000161333834386	0.000327881657342	0.000001452138941
27	massimi	0.927781	-0.079563	-10.539547	0.00016535209029	0.000989082366008	0.000080270815456
27	minimi	0.801	-0.090588	-11.305391	0.000146241723611	0.000807822370439	0.000069337902019
28	massimi	1.738639	-0.163119	-10.656602	0.000011424969421	0.000041659955719	0.000155346128167
28	minimi	1.419336	-0.18337	-11.427007	0.000011296456944	0.000001770215071	0.000132002861648
29	massimi	1.697729	-0.255605	-10.737028	0.000183266363407	-0.000019970334159	0.000208058581773
29	minimi	1.357937	-0.286463	-11.510635	0.000162676448079	-0.000020760796283	0.00017600166309
30	massimi	3.369986	-0.517032	-10.881245	0.000210609872629	0.00157832518926	0.000249747854697
30	minimi	2.976136	-0.576505	-11.66182	0.000188576926559	0.001502533875295	0.000221189878266
31	massimi	0.096424	0.069146	-12.996388	0.000161727406344	0.000250505121949	0.000007982784127
31	minimi	0.079898	0.06391	-14.052077	0.00013958021844	0.000208848869759	0.000007140775486
32	massimi	0.04006	0.105534	-12.996388	0.000161727406341	0.000250505121943	0.000007982784124
32	minimi	0.032907	0.095316	-14.052077	0.000139580218438	0.000208848869754	0.000007140775482
33	massimi	0.047315	0.096463	-12.550785	0.000049199677101	0.000447908851979	0.000006920315886
33	minimi	0.039419	0.087191	-13.550308	0.0000363392024	0.000391455956014	0.000006196383809
34	massimi	0.046864	0.112944	-13.046656	0.000047142943042	0.000027733344962	0.000006325688204
34	minimi	0.039011	0.10194	-14.145083	0.00003462448064	0.000005092155312	0.000005659332659
35	massimi	0.032723	0.113046	-12.751476	0.000264213957504	0.000029235188535	0.000006419775668
35	minimi	0.026366	0.102024	-13.803067	0.000234094749906	0.000006388334226	0.00000573662067
36	massimi	0.032271	0.096361	-12.255605	0.000262157223444	0.000446407008406	0.000007014403349
36	minimi	0.025958	0.087107	-13.208291	0.000232380028145	0.0003901597861	0.00000627367182
37	massimi	0.894592	0.194039	-13.357921	0.000357991018536	0.000113012436599	0.00014448876965
37	minimi	0.783856	0.191001	-14.445663	0.000313543166739	0.0000781999352	0.000130937797617
38	massimi	1.787515	0.223978	-13.490322	-0.000125902401359	0.00077385025843	0.000271416656174
38	minimi	1.644669	0.219916	-14.583529	-0.000135693865014	0.000715344458554	0.000247325744079
39	massimi	2.931622	0.139243	-13.581523	0.000413385217131	0.000911398746143	0.000360536236075
39	minimi	2.689664	0.117925	-14.678566	0.000364087184317	0.000824893715344	0.000329044940531
40	massimi	3.315886	-0.294849	-13.726192	0.000403846995471	-0.001023299516923	0.000284941877868
40	minimi	2.927064	-0.374991	-14.830304	0.000358108058358	-0.001045164971358	0.000256576631191
41	massimi	0.120238	0.192097	-13.200321	-0.000119887280867	0.000173377569333	0.000025647580285
41	minimi	0.10167	0.177127	-14.202054	-0.00012417191933	0.000144172231457	0.000023308834278
42	massimi	0.094231	0.173472	-13.200321	-0.000119887280865	0.000173377569334	0.000025647580277
42	minimi	0.080044	0.159144	-14.202054	-0.000124171919328	0.000144172231458	0.000023308834271
43	massimi	0.109306	0.157717	-12.908849	-0.000203434152309	0.000262938090292	0.000023656605184
43	minimi	0.093765	0.144816	-13.879413	-0.000214417283749	0.000227381105341	0.000021511040233
44	massimi	0.109037	0.188076	-13.093355	-0.000203815997771	0.000078531718929	0.00002308713576
44	minimi	0.093517	0.172416	-14.101294	-0.000214876480624	0.000056568338408	0.00002098860584
45	massimi	0.078801	0.188222	-13.246781	-0.000029682038487	0.00007820284503	0.000023396475813
45	minimi	0.066041	0.17254	-14.260204	-0.000032303859499	0.000056250812532	0.000021251374586
46	massimi	0.078531	0.15757	-13.062276	-0.000030141235362	0.000263266964191	0.000023965945237
46	minimi	0.065794	0.144692	-14.038323	-0.000032685704962	0.000227698631218	0.000021773808979
47	massimi	0.895659	1.35956	-13.41307	0.000753037862464	-0.00033634568049	0.000142930344999
47	minimi	0.785129	1.265432	-14.431864	0.000678177096101	-0.000376993223563	0.000130142759673
48	massimi	2.594729	2.826572	-13.480628	-0.001246799455413	0.00119968784538	0.000306319957291
48	minimi	2.371549	2.615789	-14.504404	-0.001360718044485	0.001114698303687	0.000277734991332

49	massimi	2.898976	3.657275	-13.526385	0.000571876496971	-0.001126729895557	0.000421040323368
49	minimi	2.659476	3.382209	-14.553659	0.000513430297141	-0.001224210017272	0.000381363579519
50	massimi	-0.013266	0.004191	-10.540684	0.000021442385798	0.000316765796206	0.000002064742257
50	minimi	-0.022309	0.004061	-11.321964	0.000018652491469	0.000293956887805	0.000001783177876
51	massimi	-0.079406	0.009016	-10.540684	0.000021442385798	0.000316765796194	0.000002064742256
51	minimi	-0.093581	0.008258	-11.321964	0.000018652491469	0.000293956887795	0.000001783177876
52	massimi	-0.077231	0.006681	-9.936268	-0.000059642958448	0.000466708846721	0.000001860496825
52	minimi	-0.091052	0.006239	-10.671121	-0.000063250091519	0.000432606538881	0.000001606453443
53	massimi	-0.077266	0.011209	-10.634212	-0.000062056449299	0.000134744587283	0.000001809698236
53	minimi	-0.091091	0.010146	-11.42322	-0.000065850851639	0.00012553888508	0.000001559926179
54	massimi	-0.08049	0.01097	-10.594766	0.000107131634609	0.000134943706572	0.000001589906702
54	minimi	-0.094826	0.009943	-11.377874	0.000097966140479	0.000125712096722	0.000001373426111
55	massimi	-0.080526	0.00692	-9.896823	0.000104530874489	0.000466509727432	0.000001640705291
55	minimi	-0.094865	0.006442	-10.625776	0.000095552649628	0.000432433327239	0.000001419953374
56	massimi	1.334062	-0.074985	-10.824869	0.000033189237407	0.001134823549081	0.000041792608359
56	minimi	1.160674	-0.085423	-11.629306	0.000029397639332	0.000937061736531	0.000037750908949
57	massimi	2.522606	-0.179681	-10.946067	0.000074183502029	0.000283753793467	0.00008992407438
57	minimi	2.116285	-0.202291	-11.755642	0.000066670686241	0.000218736016883	0.000081507699391
58	massimi	2.817422	-0.253711	-11.029401	0.000042178934954	0.000238939286273	0.000123718507969
58	minimi	2.356222	-0.284606	-11.842583	0.000037948356478	0.000213424638346	0.000112230552254
59	massimi	5.189802	-0.487593	-11.175399	0.000074379146191	0.001757995282685	0.00013574411897
59	minimi	4.601757	-0.544048	-11.995804	0.000066309353852	0.001660712417584	0.000123133023285
60	massimi	0.097861	0.053763	-14.650677	0.000021674842851	0.00031666597294	0.000003420886984
60	minimi	0.081362	0.049903	-15.969667	0.000013877412049	0.000271801865231	0.000003145375685
61	massimi	0.026611	0.05864	-14.650677	0.000021674842851	0.000316665972932	0.000003420886982
61	minimi	0.020206	0.053025	-15.969667	0.000013877412048	0.000271801865224	0.000003145375683
62	massimi	0.029686	0.054659	-13.950206	-0.00009792603686	0.000540591037262	0.000002992286784
62	minimi	0.02306	0.049367	-15.186533	-0.000101017700275	0.000476968485596	0.000002753785142
63	massimi	0.029435	0.061698	-14.595547	-0.000100157624578	0.000060672912528	0.000002661883236
63	minimi	0.022833	0.055849	-15.938395	-0.0001036176379	0.000039110528298	0.000002455018212
64	massimi	0.023433	0.061766	-14.566199	0.000145345951254	0.000060874190865	0.000002724383595
64	minimi	0.017311	0.055901	-15.892558	0.000126874358004	0.000039239397625	0.000002502476199
65	massimi	0.023182	0.054591	-13.920859	0.000142746013629	0.000540389758925	0.000003054787143
65	minimi	0.017084	0.049315	-15.140696	0.000124642770286	0.000476839616269	0.000002801243129
66	massimi	1.304586	0.203376	-15.064434	0.000095440744737	0.000444204407934	0.000090797496526
66	minimi	1.1467	0.199356	-16.424001	0.000078920283337	0.000426974456826	0.000082629474374
67	massimi	2.709266	0.20596	-15.21446	-0.000018182244363	0.001008155144175	0.000162092038977
67	minimi	2.454753	0.199616	-16.580608	-0.000021020838091	0.000926656932735	0.000146606976169
68	massimi	4.215687	0.147511	-15.318101	0.000164696534736	0.001253605879276	0.000212149909209
68	minimi	3.832113	0.126753	-16.688804	0.000141588442627	0.001141561737316	0.00019152734977
69	massimi	5.143586	-0.251611	-15.465504	0.000179127943699	-0.00093277903371	0.000150318864557
69	minimi	4.560061	-0.327315	-16.843397	0.000156298072649	-0.000938562230582	0.000135503201285
70	massimi	0.139702	0.156183	-16.484198	0.000027216761095	0.000489888491655	0.000008810584985
70	minimi	0.117184	0.144351	-17.866426	0.000017550172075	0.000411138214138	0.000007437333161
71	massimi	0.066219	0.160265	-16.484198	0.000027216761095	0.000489888491649	0.000008810584983
71	minimi	0.055513	0.146983	-17.866426	0.000017550172075	0.000411138214133	0.000007437333159
72	massimi	0.071364	0.154546	-16.077916	-0.000089800659389	0.000599708849351	0.000008236321263
72	minimi	0.059866	0.142116	-17.4025	-0.000090037883806	0.000512759791791	0.000006972408073
73	massimi	0.071115	0.164922	-16.604074	-0.000091098147094	0.000365134125584	0.000007710205313
73	minimi	0.059638	0.150876	-18.029439	-0.000091126798502	0.000296983291371	0.000006489894483
74	massimi	0.060884	0.165025	-16.581614	0.000144701979784	0.000365206210178	0.000007927588327
74	minimi	0.05102	0.150962	-17.994608	0.000125692134337	0.000297029773648	0.000006672132105
75	massimi	0.060635	0.154443	-16.055456	0.000143404492079	0.000599636764757	0.000008453704277
75	minimi	0.050792	0.14203	-17.367669	0.00012460321964	0.000512713309514	0.000007154645694
76	massimi	1.307215	1.367743	-16.762935	0.000568278078158	-0.000612714523171	0.000079047498875
76	minimi	1.150327	1.272969	-18.170197	0.000511320372603	-0.00075814185478	0.000071169646424
77	massimi	3.574242	2.871085	-16.860757	-0.001192311856058	0.001755612513054	0.000195960425626
77	minimi	3.275644	2.657311	-18.274386	-0.001299964219563	0.001594097598941	0.000177124255986
78	massimi	4.170101	3.682031	-16.927764	0.000498977307899	-0.001444201196064	0.00027804822526
78	minimi	3.790915	3.404786	-18.345863	0.000450075405887	-0.001550001947996	0.00025151791802
79	massimi	-0.031467	-0.001527	-10.53821	0.000008400713282	0.000310294288998	-0.000006225457959
79	minimi	-0.042026	-0.001843	-11.318942	0.000007473728743	0.000287291265716	-0.000006915318921
80	massimi	-0.096107	0.000154	-10.53821	0.000008400713282	0.000310294288986	-0.000006225457956
80	minimi	-0.111842	0.000047	-11.318942	0.000007473728743	0.000287291265705	-0.000006915318918
81	massimi	-0.101157	0.007087	-9.929958	-0.000070410750366	0.000460456371907	-0.000005088403717
81	minimi	-0.117418	0.006496	-10.662079	-0.000075805844651	0.000426187140595	-0.000005646642925
82	massimi	-0.101158	-0.00619	-10.612075	-0.000072769514083	0.000128709402633	-0.000005089272819
82	minimi	-0.117418	-0.006993	-11.398812	-0.000078353471391	0.000119302051715	-0.000005646909013
83	massimi	-0.089778	-0.006436	-10.59627	0.000094526486141	0.000128787413731	-0.000005314997498

83	minimi	-0.104777	-0.007279	-11.381047	0.000087157902442	0.000119371454606	-0.0000059095892
84	massimi	-0.089778	0.007372	-9.914152	0.000091978859402	0.000460378360809	-0.000005314128395
84	minimi	-0.104777	0.006742	-10.644313	0.000084799138725	0.000426117737705	-0.000005909323113
85	massimi	1.314635	-0.069428	-10.822227	0.000023189797301	0.001146643969345	-0.000036311932722
85	minimi	1.14072	-0.079175	-11.626093	0.000020646938044	0.000947217024941	-0.000039447773021
86	massimi	2.553011	-0.177439	-10.943373	0.000080451136692	0.000321763070416	-0.000058105541806
86	minimi	2.14051	-0.200054	-11.752368	0.000072034947788	0.000252678523306	-0.000063020348618
87	massimi	2.90364	-0.250981	-11.02667	0.000031187426877	0.000283925444549	-0.000073407437546
87	minimi	2.430352	-0.281855	-11.839267	0.000028437106685	0.000253664075505	-0.000079571305953
88	massimi	5.393175	-0.459776	-11.172541	0.000052095525229	0.001788473887864	-0.000058528906088
88	minimi	4.780191	-0.513315	-11.992349	0.00004718129015	0.00168749307571	-0.000064840116562
89	massimi	0.07153	0.038123	-14.937778	-0.0000493877531	0.000315429000382	-0.000002421203133
89	minimi	0.057115	0.035744	-16.298306	-0.000051454028152	0.000270452969383	-0.000002709627071
90	massimi	0.000559	0.026546	-14.937778	-0.0000493877531	0.000315429000373	-0.000002421203131
90	minimi	-0.003737	0.024632	-16.298306	-0.000051454028152	0.000270452969375	-0.00000270962707
91	massimi	-0.001865	0.029152	-14.163818	-0.000161177288091	0.000544307975552	-0.000001949265136
91	minimi	-0.005872	0.026948	-15.429935	-0.000174102816297	0.00047996381259	-0.000002189908469
92	massimi	-0.001979	0.023522	-14.805956	-0.000163397800906	0.000054607294335	-0.000002088049991
92	minimi	-0.005977	0.021928	-16.17886	-0.000176692597948	0.000033554009022	-0.00000233948196
93	massimi	0.003088	0.023524	-14.9104	0.000077633526339	0.000054129478588	-0.00000209682592
93	minimi	-0.001446	0.021918	-16.287673	0.000068316713056	0.000033095381253	-0.000002338170034
94	massimi	0.002975	0.029151	-14.268261	0.000075043744688	0.000544785791299	-0.000001958041065
94	minimi	-0.001551	0.026957	-15.538749	0.000066096200241	0.000480422440359	-0.000002188596544
95	massimi	1.280612	0.215007	-15.358941	-0.000013288858072	0.000504803726618	0.000040429778852
95	minimi	1.122581	0.209747	-16.761262	-0.000014829588324	0.000481288213961	0.000037785201821
96	massimi	2.745106	0.199768	-15.511529	0.000032552627705	0.001027988642686	0.000052912628917
96	minimi	2.4835	0.191679	-16.920743	0.000022517087632	0.000944032533883	0.000049360756477
97	massimi	4.293105	0.158715	-15.616903	0.000044825878171	0.001305050969056	0.000061677183217
97	minimi	3.89821	0.138802	-17.030956	0.000038239916275	0.001188393278163	0.000057488273576
98	massimi	5.346907	-0.208412	-15.765195	0.000095322430119	-0.000905719889139	-0.000032133648975
98	minimi	4.738482	-0.279446	-17.186603	0.000084176035566	-0.000907603475546	-0.000037058299267
99	massimi	0.117946	0.083489	-18.04932	-0.000362013549788	0.000140619095901	-0.00000075697013
99	minimi	0.097103	0.077969	-19.569842	-0.000394657039158	0.000088600379822	-0.000003800787899
100	massimi	0.096853	0.024291	-18.04932	-0.000362013549782	0.000140619095902	-0.00000075697013
100	minimi	0.083813	0.023667	-19.569842	-0.000394657039152	0.000088600379823	-0.000003800787898
101	massimi	0.09429	0.026546	-17.591331	-0.000474871616465	0.000266771838409	-0.000000793092715
101	minimi	0.083104	0.024104	-19.042897	-0.000517274085556	0.000205263806709	-0.000003605567831
102	massimi	0.094252	0.023073	-17.704718	-0.000475106277833	0.000010179649809	-0.000000870786201
102	minimi	0.083067	0.021874	-19.222855	-0.000517646520409	-0.00003076398582	-0.000003685308494
103	massimi	0.098811	0.023203	-18.168009	-0.000237885017723	0.000009134386112	-0.000000595645578
103	minimi	0.084004	0.022025	-19.727921	-0.00025963663326	-0.000031722792033	-0.000003367362124
104	massimi	0.098773	0.026395	-18.054621	-0.00023811967909	0.000267817102106	-0.000000517952092
104	minimi	0.083967	0.023974	-19.547962	-0.000260009068112	0.000206222612923	-0.000003287621461
105	massimi	1.276911	1.385414	-18.368667	0.000036048965469	-0.000450120069113	-0.000028182460968
105	minimi	1.120423	1.289222	-19.917805	0.000033397251369	-0.000590673596601	-0.00003143162517
106	massimi	3.499254	2.771797	-18.513076	-0.000244862373164	0.001606725124199	-0.000480241655385
106	minimi	3.205043	2.568976	-20.070298	-0.000300818812461	0.001454559905968	-0.000523111054717
107	massimi	4.237995	3.730617	-18.582468	-0.000083839148709	-0.001226416104009	-0.00000280492475
107	minimi	3.848421	3.449142	-20.144757	-0.000092446717585	-0.001313496106324	-0.0000042832235
108	massimi	0.105797	0.011959	-1.870345	-0.000553950363216	-0.001315055266478	0.000005910513277
108	minimi	0.0956	0.011747	-2.006025	-0.000595696913469	-0.00141854079659	0.000005750206425
109	massimi	1.503125	1.04663	-1.990792	-0.000176526177958	0.001293324422027	-0.000091765967208
109	minimi	1.37383	0.972835	-2.135002	-0.000191300709827	0.001190508092153	-0.000098702476592
110	massimi	2.151135	1.104504	-2.074371	0.000134387856432	-0.001138461689778	-0.000162277661989
110	minimi	1.967204	1.021511	-2.224749	0.000129355904013	-0.001231404764768	-0.000174345715421
111	massimi	0.104394	0.002284	-0.588653	-0.000239550769867	0.000387641470556	0.000006197328202
111	minimi	0.094395	0.001755	-0.622183	-0.0002559733134	0.00036182917876	0.000005963171725
112	massimi	2.339331	0.515456	-0.639703	-0.000088361607549	0.000732188105148	-0.000024296852578
112	minimi	2.160344	0.479523	-0.676566	-0.000096297725838	0.000671917807488	-0.000026415382819
113	massimi	2.138775	0.459601	-0.673103	0.00017792597589	-0.001179977314434	-0.000046177177844
113	minimi	1.955752	0.423205	-0.712376	0.000168979018858	-0.001258911423982	-0.000049996881558
114	massimi	0.105402	0.038726	-17.34686	-0.000182332196031	-0.002991234836539	-0.00000986167204
114	minimi	0.094812	0.036809	-18.77217	-0.000211081617072	-0.003230004397212	-0.000010431346667
115	massimi	1.029611	1.392118	-18.228065	-0.000216827537783	-0.00050733743147	-0.000128487409596
115	minimi	0.895656	1.295261	-19.74026	-0.000246824564004	-0.000653948382958	-0.000141335885293
116	massimi	2.186874	2.75794	-19.048868	-0.000161790599924	0.000484281642259	-0.000223305116102
116	minimi	2.000218	2.555942	-20.553428	-0.000180255034412	0.000434000320684	-0.000244050895495
117	massimi	-0.087437	-0.006178	-10.409651	-0.000020864910672	0.00017556111519	-0.000017242334831
117	minimi	-0.104206	-0.006814	-11.167349	-0.000023578712617	0.000164589757161	-0.000018594278103

118	massimi	-0.12447	-0.010873	-10.409651	-0.000020864910672	0.000175561115181	-0.000017242334823
118	minimi	-0.143707	-0.012119	-11.167349	-0.000023578712617	0.000164589757153	-0.000018594278094
119	massimi	-0.139424	0.007106	-9.920769	-0.000097142312852	0.000329983924421	-0.000014291347169
119	minimi	-0.159772	0.006963	-10.640947	-0.000105903123329	0.000307520686495	-0.000015401887449
120	massimi	-0.139378	-0.028537	-10.311556	-0.000098493653439	0.000004991193989	-0.000014230085085
120	minimi	-0.15972	-0.031153	-11.057782	-0.000107344542676	0.000003359627414	-0.000015333603732
121	massimi	-0.107906	-0.028855	-10.35568	0.000061950913094	0.000004797437277	-0.000014522424974
121	minimi	-0.125782	-0.03152	-11.107646	0.000058324622938	0.000003140669666	-0.000015671125439
122	massimi	-0.10786	0.007473	-9.964894	0.000060509493747	0.000330202882168	-0.000014583687058
122	minimi	-0.12573	0.007281	-10.69081	0.000056973282352	0.000307714443207	-0.000015739409156
123	massimi	0.863463	-0.06322	-10.689823	-0.000039331575332	0.001030967751149	-0.000088230301258
123	minimi	0.732963	-0.072229	-11.469962	-0.000047199749113	0.000844112468289	-0.000100637892341
124	massimi	1.857562	-0.182169	-10.808801	0.000114174283253	0.000185323898795	-0.00012882484326
124	minimi	1.515063	-0.20542	-11.593742	0.000100870993143	0.000130794587981	-0.000150919822453
125	massimi	2.034294	-0.247622	-10.890577	-0.000033745722257	0.000160707348072	-0.000157327394027
125	minimi	1.648779	-0.278416	-11.678889	-0.00004041023892	0.000142246278223	-0.000186224156362
126	massimi	4.243993	-0.435929	-11.035597	-0.000014661612922	0.001738161650822	-0.000160974124973
126	minimi	3.742639	-0.48698	-11.831003	-0.000017846627951	0.001640815925284	-0.000183766799546
127	massimi	0.023204	0.023691	-14.603138	-0.000120108757	0.000193424723139	-0.000003936663269
127	minimi	0.014511	0.022583	-15.918739	-0.000130408636352	0.000160453987676	-0.000004879652808
128	massimi	-0.020317	-0.004442	-14.603138	-0.000120108756998	0.000193424723133	-0.000003936663267
128	minimi	-0.021591	-0.005651	-15.918739	-0.00013040863635	0.000160453987671	-0.000004879652806
129	massimi	-0.024654	-0.000346	-13.894535	-0.000226969337458	0.000422073210242	-0.000003276452386
129	minimi	-0.025055	-0.000564	-15.122554	-0.000247502559246	0.000369879784741	-0.000004069273473
130	massimi	-0.02463	-0.008468	-14.275502	-0.000228286720427	-0.000054811417189	-0.000003251425223
130	minimi	-0.025036	-0.010649	-15.581803	-0.000249090643405	-0.000065220596092	-0.000004037434109
131	massimi	-0.015734	-0.008523	-14.529505	-0.000001971497124	-0.00005602242636	-0.000003302135684
131	minimi	-0.017859	-0.010701	-15.857588	-0.000002946137091	-0.000066335957853	-0.000004085151622
132	massimi	-0.01571	-0.00029	-14.148538	-0.000003559581283	0.000423284219413	-0.000003327162846
132	minimi	-0.01784	-0.000512	-15.398338	-0.00000426352006	0.000370995146502	-0.000004116990986
133	massimi	0.81597	0.22722	-15.014134	-0.000154428952286	0.000340593314166	0.000004516015057
133	minimi	0.702083	0.220675	-16.370162	-0.000170334535905	0.000331990020039	0.000003145669219
134	massimi	1.941528	0.190993	-15.16219	0.000103985751306	0.000848310008466	-0.0000295689061
134	minimi	1.7536	0.181345	-16.524542	0.000085789716278	0.000780005327828	-0.000032877836551
135	massimi	3.279231	0.170968	-15.264381	-0.000104853240039	0.00117432401142	-0.0000053500872018
135	minimi	2.977268	0.151982	-16.631173	-0.000116265190964	0.001070763027346	-0.000058170936346
136	massimi	4.194503	-0.170859	-15.410489	-0.000027740241904	-0.000905728042665	-0.000124573387817
136	minimi	3.697851	-0.238027	-16.784391	-0.000029530929073	-0.000909219667994	-0.000140562959462
137	massimi	0.086442	-0.005711	-16.838044	-0.000525745341325	-0.000602861869031	0.000005452942849
137	minimi	0.070817	-0.007519	-18.210387	-0.000570118392635	-0.000617188916121	0.00000337653933
138	massimi	0.17902	-0.084573	-16.838044	-0.000525745341317	-0.000602861869016	0.000005452942848
138	minimi	0.161247	-0.093037	-18.210387	-0.000570118392627	-0.000617188916106	0.000003376539329
139	massimi	0.180362	-0.08741	-16.729516	-0.000628798022732	-0.000484101250182	0.00000459850101
139	minimi	0.163889	-0.094597	-18.06929	-0.00068183288606	-0.000488949498206	0.000002650749855
140	massimi	0.180507	-0.081175	-15.957998	-0.000627201320878	-0.000703244541957	0.000004876136344
140	minimi	0.164021	-0.090859	-17.279437	-0.000680198238494	-0.000726613635167	0.000002956169697
141	massimi	0.176346	-0.080925	-16.630825	-0.000408262275066	-0.000704636997848	0.000005405474363
141	minimi	0.157403	-0.090581	-18.009051	-0.000442658769547	-0.000728123614719	0.000003543853176
142	massimi	0.176491	-0.087661	-17.402343	-0.000406665573211	-0.00048270879429	0.00000512783903
142	minimi	0.157535	-0.094875	-18.798904	-0.000441024121981	-0.000487439518654	0.000003238433333
143	massimi	0.801594	1.399054	-17.15472	-0.000677428772893	-0.000566519338458	-0.000003322161497
143	minimi	0.690076	1.301508	-18.554613	-0.000741632127094	-0.000719395694168	-0.000005623440035
144	massimi	2.430576	2.744591	-17.325751	-0.000615766675095	0.001346183403494	-0.000087139865059
144	minimi	2.227867	2.543381	-18.733254	-0.000674625399655	0.00121787123154	-0.000092805096911
145	massimi	3.206932	3.836119	-17.390085	-0.00075255202267	-0.001244204397562	0.000040229741503
145	minimi	2.911342	3.547331	-18.802412	-0.00082447099379	-0.001337255566819	0.000033202366311
146	massimi	0.096526	0.011969	-1.784396	0.000496880562998	-0.001281183150364	-0.000000305056
146	minimi	0.085502	0.01177	-1.912467	0.000463300164298	-0.001381473611928	-0.000000743325358
147	massimi	1.396888	0.146526	-1.901294	-0.000403756233887	0.001254523197649	-0.000085526284764
147	minimi	1.275015	0.132743	-2.037629	-0.000435885135166	0.001155353389788	-0.00009260630576
148	massimi	2.140554	1.102859	-1.982306	-0.000460323180897	-0.00097324367955	-0.000147147788639
148	minimi	1.95774	1.019976	-2.124617	-0.000495482952726	-0.001052749621123	-0.000159030306974
149	massimi	0.095549	0.002521	-0.55183	0.000213395752497	0.000375943737986	-0.000001311334563
149	minimi	0.08476	0.001967	-0.581344	0.000200785701635	0.000351412696418	-0.000001949969047
150	massimi	2.318045	-0.033745	-0.600652	-0.000150746514686	0.000733426609922	-0.000030027924865
150	minimi	2.141191	-0.036023	-0.633215	-0.00016287003036	0.000673681390121	-0.000032583933404
151	massimi	2.125926	0.459812	-0.632441	-0.000327124416462	-0.001174382448088	-0.000050792228622
151	minimi	1.94417	0.423406	-0.667207	-0.000350360072691	-0.001251639136982	-0.000054734646094
152	massimi	0.095095	-0.021726	-16.138908	-0.000916475894306	-0.002404833276852	0.000013330746452

152	minimi	0.08337	-0.024858	-17.4474	-0.001001648402136	-0.002588651823581	0.000009780159818
153	massimi	0.78381	1.40143	-16.447592	-0.00088081246439	-0.000651813438872	-0.0000292808137
153	minimi	0.67588	1.303643	-17.781222	-0.0009620403222	-0.000808755714146	-0.000034972867695
154	massimi	2.184548	2.737834	-16.969279	-0.000376322693748	0.000800682089988	-0.000292571647001
154	minimi	1.998445	2.537017	-18.314403	-0.000457903299303	0.000721722049008	-0.000313611809936
155	massimi	-0.182737	-0.008601	-9.337735	-0.000129694325701	0.000122657920401	0.000007019648698
155	minimi	-0.201366	-0.009097	-9.943041	-0.000145813304612	0.000104762799211	0.000006021015739
156	massimi	-0.206308	-0.037783	-9.337735	-0.000129694325699	0.000122657920391	0.000007019648695
156	minimi	-0.228964	-0.041905	-9.943041	-0.00014581330461	0.000104762799203	0.000006021015736
157	massimi	-0.199514	-0.044003	-8.835397	-0.000193384838611	0.000259705005237	0.000006016114239
157	minimi	-0.221115	-0.049159	-9.385138	-0.0002137753383	0.000233156395639	0.000005166712143
158	massimi	-0.199352	-0.030968	-9.084136	-0.000194244978543	-0.000026810455656	0.00000625222693
158	minimi	-0.220936	-0.033992	-9.676365	-0.000214782403556	-0.000034239889837	0.000005379596179
159	massimi	-0.21052	-0.031495	-9.35841	-0.000055441943524	-0.000028164514008	0.000005714464008
159	minimi	-0.233947	-0.034577	-9.984727	-0.000065936702913	-0.000035444263371	0.000004895044416
160	massimi	-0.210358	-0.043476	-9.109671	-0.000056302083455	0.000261059063589	0.00000547835133
160	minimi	-0.233767	-0.048574	-9.6935	-0.000066943768169	0.000234360769173	0.000004682160379
161	massimi	0.388656	-0.05668	-9.580739	-0.000062643202885	0.000938587491927	0.000102107714142
161	minimi	0.328788	-0.064962	-10.202976	-0.000070182617851	0.000836139457164	0.000098514863864
162	massimi	1.250429	-0.198839	-9.684557	0.000130013454518	0.000184953402855	0.000135287562944
162	minimi	1.090562	-0.226645	-10.312201	0.000121288957569	0.000158741828552	0.000134384294365
163	massimi	1.567319	-0.243305	-9.755688	-0.000103274245371	0.000397112489733	0.000159569213653
163	minimi	1.362713	-0.27399	-10.387128	-0.000109861136491	0.000344555908013	0.000158584052529
164	massimi	2.822589	-0.422366	-9.852851	-0.000035095188944	0.001029503287703	-0.000008578947487
164	minimi	2.492712	-0.472265	-10.488542	-0.000036564502981	0.00096381636955	-0.00001891401472
165	massimi	-0.005027	0.014049	-12.474284	-0.000222187069868	-0.000009259028641	-0.000003011075759
165	minimi	-0.006032	0.01354	-13.539251	-0.000242737921633	-0.000010790525376	-0.000003850406218
166	massimi	-0.0026	-0.036452	-12.474284	-0.000222187069864	-0.000009259028641	-0.000003011075757
166	minimi	-0.003949	-0.040567	-13.539251	-0.000242737921629	-0.000010790525376	-0.000003850406216
167	massimi	-0.006188	-0.033042	-11.919983	-0.000308524815	0.000189803144239	-0.000002613970662
167	minimi	-0.006753	-0.036252	-12.934641	-0.000337018514588	0.000174401823079	-0.000003328456242
168	massimi	-0.006015	-0.039287	-11.897999	-0.000308448795158	-0.000191982240957	-0.000002408585944
168	minimi	-0.006597	-0.044244	-12.909021	-0.000336929920627	-0.000210291464623	-0.000003099881597
169	massimi	0.00085	-0.039297	-12.367874	-0.000119304787113	-0.000194045528994	-0.000002417861047
169	minimi	-0.001249	-0.044251	-13.422356	-0.000130388072241	-0.000212545593317	-0.0000030105987011
170	massimi	0.001024	-0.033032	-12.389858	-0.000119228767272	0.000192057272934	-0.000002623245765
170	minimi	-0.001093	-0.036245	-13.447976	-0.000130299478279	0.000176465111116	-0.000003334561656
171	massimi	0.293223	0.239618	-12.818739	-0.000296147127268	0.00009987216839	-0.000068648382036
171	minimi	0.241804	0.231783	-13.915822	-0.000309130351144	0.000069971604965	-0.000077785171484
172	massimi	0.861753	0.198702	-12.952387	0.000161867242262	0.000468564131034	-0.000116604413492
172	minimi	0.730813	0.190212	-14.05683	0.000144757197259	0.000419469676313	-0.000128827382844
173	massimi	1.576856	0.184111	-13.044463	-0.000214631153871	0.000596988865398	-0.000150275669621
173	minimi	1.38365	0.166113	-14.154073	-0.00022386260158	0.000554503619928	-0.000164665531245
174	massimi	2.744324	-0.149416	-13.145135	-0.000016635819848	-0.000388355303657	-0.000127722643479
174	minimi	2.419002	-0.214773	-14.259278	-0.000018471041106	-0.000401242555372	-0.000144033130931
175	massimi	0.050457	-0.089163	-11.235399	-0.000917733993946	-0.00012319544312	-0.000021531000414
175	minimi	0.042399	-0.097923	-12.123599	-0.000993925948649	-0.000145531671611	-0.000023474288305
176	massimi	0.068936	-0.226823	-11.235399	-0.000917733993931	-0.000123195443116	-0.000021531000407
176	minimi	0.064229	-0.247012	-12.123599	-0.000993925948634	-0.000145531671607	-0.000023474288298
177	massimi	0.054556	-0.213216	-10.63788	-0.000976160307172	-0.000044380452903	-0.000020228129524
177	minimi	0.051035	-0.232179	-11.454399	-0.001057192860871	-0.000072306843541	-0.000022051573958
178	massimi	0.054939	-0.238925	-10.451635	-0.000975774861182	-0.00019825488118	-0.000019483519872
178	minimi	0.051388	-0.260207	-11.296739	-0.001056866573204	-0.000214320038646	-0.000021240685956
179	massimi	0.082476	-0.238825	-11.626113	-0.000831716459798	-0.000200887330646	-0.000019272669193
179	minimi	0.076645	-0.2601	-12.568724	-0.000900685983128	-0.000216750690914	-0.000021014383014
180	massimi	0.08286	-0.213316	-11.812358	-0.000831331013809	-0.000041748003437	-0.000020017278844
180	minimi	0.076997	-0.232287	-12.726385	-0.000900359695461	-0.000069876191272	-0.000021825271016
181	massimi	0.274303	1.411432	-11.417249	-0.00166539340233	-0.001010798498858	-0.000230857896443
181	minimi	0.225333	1.312631	-12.321347	-0.001804847853535	-0.001184853380645	-0.000257846414309
182	massimi	1.396771	2.710702	-11.513278	-0.001465416899153	0.001092729406672	-0.00053849717929
182	minimi	1.270528	2.511441	-12.420173	-0.001568573641216	0.00097032671147	-0.000589872935946
183	massimi	1.506223	3.954061	-11.560089	-0.001524474971748	-0.001626070564981	-0.000563218382635
183	minimi	1.32013	3.657482	-12.469869	-0.001653801414479	-0.001738349254272	-0.000619909702944
184	massimi	-0.144738	0.055464	-15.677957	-0.000125210701567	0.000990543740831	0.000013522284306
184	minimi	-0.159136	0.050066	-17.016781	-0.000155382660123	0.000894133072529	0.000012474984806
185	massimi	-0.278858	0.032157	-15.677957	-0.000125210701565	0.000990543740806	0.000013522284302
185	minimi	-0.307718	0.031284	-17.016781	-0.000155382660121	0.000894133072506	0.000012474984802
186	massimi	-0.27049	0.023769	-14.879105	-0.000224508192847	0.00108672147662	0.000012961866497
186	minimi	-0.298631	0.023545	-16.123915	-0.000263184154733	0.000982728714311	0.000011952376182

187	massimi	-0.270539	0.040331	-16.02338	-0.000226876337207	0.000864169768988	0.000012856302508
187	minimi	-0.29868	0.038816	-17.391572	-0.000265807646297	0.000778280226234	0.000011849677213
188	massimi	-0.285328	0.039853	-16.183619	-0.000019728079617	0.000863758232292	0.000011846132217
188	minimi	-0.314714	0.038383	-17.590424	-0.000040220910405	0.000777948601081	0.000010934245635
189	massimi	-0.285377	0.024247	-15.039345	-0.000022096223977	0.001087133013316	0.000011951696206
189	minimi	-0.314764	0.023978	-16.322767	-0.000042844401969	0.000983060339464	0.000011036944604
190	massimi	0.369138	0.455852	-15.953294	0.000837698982033	0.001823230059233	0.000013527924716
190	minimi	0.310888	0.428205	-17.318549	0.000717716626171	0.001628012866007	0.000013506693272
191	massimi	0.813558	1.479233	-16.04023	-0.000738873069738	-0.000281085711669	0.000077355811265
191	minimi	0.679209	1.412737	-17.404822	-0.000807680492612	-0.000300751667822	0.000072923123066
192	massimi	1.574671	1.024593	-16.099592	0.002048039986237	0.001971433945165	0.000122186043048
192	minimi	1.372796	0.968578	-17.463719	0.001917749469687	0.001802821383842	0.000114626134673
193	massimi	-0.029526	0.011414	-14.628827	-0.000226981391598	-0.000592023001243	-0.00000246701364
193	minimi	-0.031127	0.010919	-15.91651	-0.000249190418346	-0.000636664170873	-0.000002650206735
194	massimi	0.064372	-0.023128	-14.628827	-0.000226981391594	-0.000592023001232	-0.00000246701364
194	minimi	0.059277	-0.025965	-15.91651	-0.000249190418342	-0.000636664170861	-0.000002650206734
195	massimi	0.062563	-0.021538	-14.726015	-0.000319571398326	-0.000488034104229	-0.000002398252868
195	minimi	0.057596	-0.024252	-16.015533	-0.000350245312003	-0.000523279966947	-0.000002579314307
196	massimi	0.062603	-0.024565	-13.968368	-0.000318003403613	-0.000677964369863	-0.000002322328133
196	minimi	0.057632	-0.027505	-15.200756	-0.000348559083508	-0.000730639982427	-0.000002494078314
197	massimi	0.065715	-0.024473	-14.25885	-0.000129039964121	-0.000678565538435	-0.000002127733262
197	minimi	0.06053	-0.027405	-15.51966	-0.000142225306526	-0.000731299972424	-0.00000228275809
198	massimi	0.065755	-0.02163	-15.016496	-0.000127471969407	-0.000487432935657	-0.000002203657997
198	minimi	0.060566	-0.024352	-16.334436	-0.000140539078031	-0.00052261997695	-0.000002367994083
199	massimi	0.305097	0.980024	-14.878648	0.000093068915257	-0.001216203109096	-0.000337945536785
199	minimi	0.252741	0.898984	-16.190554	0.000058503380301	-0.001352037308399	-0.000373984218824
200	massimi	1.30652	1.759246	-14.94525	-0.000511656223642	0.001192518831908	-0.000679065223057
200	minimi	1.163591	1.625704	-16.256438	-0.000561904798936	0.001071686089611	-0.00074974053481
201	massimi	1.559921	2.069484	-14.990335	0.000269383145965	-0.001314214959285	-0.000918574790014
201	minimi	1.365823	1.912296	-16.301019	0.00023515605483	-0.001412413894301	-0.001013569437524
202	massimi	-0.071091	0.0188	-15.263773	-0.000141536383683	-0.00044187371838	-0.000026344593108
202	minimi	-0.076615	0.017698	-16.608062	-0.000157231591069	-0.000486673364403	-0.000029024384769
203	massimi	-0.003614	-0.00243	-15.263773	-0.00014153638368	-0.000441873718373	-0.000026344593099
203	minimi	-0.00481	-0.005887	-16.608062	-0.000157231591067	-0.000486673364396	-0.00002902438476
204	massimi	-0.020466	0.014836	-15.303342	-0.000248729669801	-0.0003357693336	-0.000024167679042
204	minimi	-0.020865	0.009796	-16.673271	-0.000254997637557	-0.000370736664873	-0.000026622142062
205	massimi	-0.020456	-0.01968	-14.73785	-0.000247440697479	-0.000534507801398	-0.000024148353499
205	minimi	-0.020861	-0.021531	-16.050446	-0.000253827318747	-0.00058777406712	-0.00002661416424
206	massimi	0.013657	-0.019686	-14.939068	-0.000031317403231	-0.000534924235056	-0.0000241641425
206	minimi	0.010869	-0.021538	-16.231579	-0.000055842736102	-0.000588148931443	-0.000026626028418
207	massimi	0.013661	0.014842	-15.50456	-0.000030028430909	-0.000335352899943	-0.000024183468043
207	minimi	0.010878	0.009804	-16.854403	-0.000054672417291	-0.000370361800055	-0.000026634006241
208	massimi	-1.913107	0.455962	-15.521158	-0.000912933603833	-0.000156503265984	-0.000209019344186
208	minimi	-2.092378	0.427906	-16.889974	-0.001039864773467	-0.000188876430724	-0.000230779705229
209	massimi	-3.506407	0.071261	-15.604773	0.000387490196682	-0.001094422278195	-0.000411100814215
209	minimi	-3.828567	0.047201	-16.978983	0.000342091533742	-0.001186247958456	-0.000453088291314
210	massimi	-4.479345	1.065068	-15.661805	-0.002275459519067	-0.000160805578468	-0.000552987803811
210	minimi	-4.893506	1.005713	-17.039801	-0.002416625230778	-0.000194663724045	-0.000609177298565
211	massimi	-0.035353	-0.015954	-11.464357	-0.00047853431802103	-0.000785343180367	-0.000014396114242
211	minimi	-0.038249	-0.019221	-12.436002	-0.000521097347601	-0.000859123768921	-0.000015905155499
212	massimi	0.09062	-0.087322	-11.464357	-0.000475787102096	-0.000785343180353	-0.000014396114237
212	minimi	0.082449	-0.097386	-12.436002	-0.000521097347593	-0.000859123768905	-0.000015905155494
213	massimi	0.080785	-0.078407	-11.556807	-0.000543351754438	-0.000700226136556	-0.000013484224473
213	minimi	0.073546	-0.087533	-12.537223	-0.000594667234553	-0.000766343986132	-0.000014898398776
214	massimi	0.080936	-0.095658	-10.551758	-0.000541271744113	-0.000846519425736	-0.000013197564824
214	minimi	0.073682	-0.106592	-11.437752	-0.000592391813623	-0.000925713588515	-0.000014578702906
215	massimi	0.099702	-0.09553	-11.16065	-0.000395798325601	-0.000847779565392	-0.000012926903669
215	minimi	0.090669	-0.106451	-12.104631	-0.000433917486661	-0.000927093734024	-0.000014281218234
216	massimi	0.099854	-0.078535	-12.1657	-0.000393718315276	-0.0006989659969	-0.000013213563319
216	minimi	0.090805	-0.087674	-13.204102	-0.000431642065731	-0.000764963840623	-0.000014600914105
217	massimi	-1.923106	0.992082	-11.640206	-0.001011667634176	-0.00123920606739	0.000053102662959
217	minimi	-2.103228	0.90956	-12.628116	-0.001136090843965	-0.001344862582114	0.000047295748557
218	massimi	-3.573211	1.605336	-11.737675	-0.000605647863189	-0.00066819650692	0.000026515357446
218	minimi	-3.911736	1.467516	-12.735432	-0.00002085394246	-0.000734740657118	0.000025400410288
219	massimi	-4.50079	2.091101	-11.804434	-0.000898963051148	-0.000812147510828	0.000010027087674
219	minimi	-4.916552	1.931774	-12.809104	-0.000971140146236	-0.000864444014383	0.000007847674851
220	massimi	0.113145	-0.003097	-14.13031	-0.000428653692497	-0.00046972033563	-0.000020335124745
220	minimi	0.100427	-0.004575	-15.416329	-0.000469553946513	-0.000519113903905	-0.000022647441562
221	massimi	0.191012	-0.067395	-14.13031	-0.000428653692491	-0.000469720335617	-0.000020335124738

221	minimi	0.170885	-0.075008	-15.416329	-0.000469553946506	-0.000519113903891	-0.000022647441554
222	massimi	0.176852	-0.054945	-14.02504	-0.000514622511279	-0.000371247961223	-0.000019044532179
222	minimi	0.158173	-0.061142	-15.303991	-0.000563697750505	-0.000411209836285	-0.00002121154727
223	massimi	0.176968	-0.079397	-13.423911	-0.000513378439677	-0.00055387351791	-0.000018823290357
223	minimi	0.158277	-0.088376	-14.63965	-0.00056232285822	-0.000611193040896	-0.000020964919292
224	massimi	0.203789	-0.079132	-13.972484	-0.000330861649506	-0.000555008822995	-0.000018262311627
224	minimi	0.18236	-0.08808	-15.240566	-0.00036247091498	-0.00061243667181	-0.000020337868235
225	massimi	0.203905	-0.05521	-14.573613	-0.000329617577905	-0.000370112656137	-0.000018483553449
225	minimi	0.182464	-0.061439	-15.904906	-0.000361096022695	-0.000409966205371	-0.00002058410367
226	massimi	-1.261156	0.987636	-14.381625	-0.000476543316964	-0.000510197252945	-0.000293583834492
226	minimi	-1.372782	0.905721	-15.693215	-0.000525684419542	-0.000560190637678	-0.000326247174964
227	massimi	-2.282351	1.570493	-14.481733	-0.000236875533464	-0.000486114627486	-0.000562541631002
227	minimi	-2.474173	1.450788	-15.797318	-0.000248232157886	-0.000523206799243	-0.000622590106916
228	massimi	-2.729043	2.083599	-14.550343	-0.000547456828302	-0.000146291692611	-0.00075138433919
228	minimi	-2.967461	1.924991	-15.868733	-0.000605048613233	-0.000180670247972	-0.000830660676159
229	massimi	0.136917	-0.125377	-4.98812	-0.002026754384897	-0.00064977616759	0.000036168299825
229	minimi	0.122179	-0.13706	-5.353906	-0.002182896765931	-0.000707962459917	0.000032179090613
230	massimi	0.243112	-0.42939	-4.98812	-0.002026754384865	-0.000649776167573	0.000036168299813
230	minimi	0.219645	-0.464495	-5.353906	-0.002182896765897	-0.000707962459898	0.000032179090603
231	massimi	0.263454	-0.446933	-4.064357	-0.002026521020031	-0.000612757622235	0.000032015743391
231	minimi	0.23772	-0.484275	-4.363906	-0.00218284443543	-0.000667779857085	0.000028452578192
232	massimi	0.264176	-0.409	-3.2328	-0.00202480006393	-0.000666986607829	0.000033540579162
232	minimi	0.238387	-0.441634	-3.457885	-0.002180969370792	-0.000726563177287	0.000029862172325
233	massimi	0.220435	-0.408658	-5.826557	-0.001966924100835	-0.000672354541431	0.000034338662064
233	minimi	0.199446	-0.441256	-6.251466	-0.002118279632781	-0.000732344659734	0.000030583219345
234	massimi	0.221157	-0.447274	-6.658114	-0.001965203144734	-0.000607389688633	0.000032813826293
234	minimi	0.200113	-0.484653	-7.157487	-0.002116404568143	-0.000661998374639	0.000029173625213
235	massimi	-1.259547	1.423798	-5.220692	-0.001739066056703	-0.001286782885779	-0.000248452578192
235	minimi	-1.371071	1.323995	-5.604008	-0.001883551240102	-0.001417964001431	-0.00037836661794
236	massimi	-1.899288	2.702411	-5.302876	-0.001058330076635	0.000017609573966	-0.000990627138593
236	minimi	-2.072984	2.503724	-5.69142	-0.001148027479685	0.000008025270929	-0.001086554709818
237	massimi	-2.735163	3.995436	-5.341877	-0.001690875976977	-0.001481594406876	-0.000892780195815
237	minimi	-2.974006	3.695897	-5.732832	-0.001831166183132	-0.001609499905161	-0.000986161065206
238	massimi	-0.021356	-0.12725	0.347439	-0.000885403367584	-0.000522255978159	0.000051341478461
238	minimi	-0.02311	-0.139116	0.284876	-0.00096694304419	-0.000578944057519	0.000046556123877
239	massimi	-1.9272	1.425835	0.276513	-0.001531267559843	-0.001072034235792	-0.000121318134074
239	minimi	-2.107757	1.32576	0.215551	-0.001655081587801	-0.001166192641602	-0.000136362394755
240	massimi	-3.356187	2.877615	0.240604	-0.000399484882834	-0.000673890376214	-0.000172112628162
240	minimi	-3.671478	2.662351	0.18157	-0.000435976397205	-0.000738271744813	-0.000187418908995
241	massimi	-4.521915	4.003772	0.217154	-0.001429214642495	-0.001203644366929	-0.000207776847414
241	minimi	-4.939425	3.70373	0.159473	-0.00153979225947	-0.001301635975022	-0.000223267099845
242	massimi	0.132464	-0.027262	-10.101921	-0.00056305837492	-0.000850806022638	0.00000548055389
242	minimi	0.118064	-0.030534	-10.958112	-0.000607706059096	-0.000931439593498	0.000000507096682
243	massimi	0.27218	-0.111721	-10.101921	-0.000563058374911	-0.000850806022617	0.000000548055389
243	minimi	0.245685	-0.12169	-10.958112	-0.000607706059086	-0.000931439593475	0.000000507096682
244	massimi	0.271485	-0.111486	-10.193663	-0.000620127596402	-0.000774058658657	-0.000000083912203
244	minimi	0.24511	-0.121377	-11.064556	-0.000670015675491	-0.000847708172062	-0.000000181335771
245	massimi	0.271674	-0.111216	-9.104836	-0.000617874205329	-0.000901616985796	0.000000282844242
245	minimi	0.245283	-0.121197	-9.872538	-0.000667548723437	-0.000986776539581	0.000000218147212
246	massimi	0.270882	-0.110834	-9.825415	-0.000491077988429	-0.00090310826663	0.00000111165594
246	minimi	0.244458	-0.120774	-10.650255	-0.000529337776103	-0.000988386071451	0.000001089375264
247	massimi	0.271071	-0.111868	-10.914242	-0.000488824597356	-0.000772567377822	0.00000072261882
247	minimi	0.244631	-0.1218	-11.842273	-0.000526870824049	-0.000846098640192	0.000000712172958
248	massimi	-1.263551	1.583313	-10.275429	-0.000791368090836	-0.001140081282803	0.000219448970365
248	minimi	-1.375466	1.463966	-11.147935	-0.000858936726997	-0.001254103814267	0.000201759443376
249	massimi	-1.992045	2.939736	-10.363127	-0.000634967259219	-0.000138373849892	0.000491870333987
249	minimi	-2.166485	2.71357	-11.240669	-0.000689527411707	-0.000143781104989	0.000450085707983
250	massimi	-2.738042	3.986648	-10.423025	-0.000872820882275	-0.00124012240485	0.000683144908444
250	minimi	-2.977283	3.677159	-11.304103	-0.000948693025939	-0.001358985044645	0.000624442446962
251	massimi	-0.022472	0.015666	-3.943931	-0.000624692514731	-0.001857556024879	0.000029761180106
251	minimi	-0.024344	0.014409	-4.251426	-0.000682031808704	-0.00200878781476	0.000027415513284
252	massimi	0.276974	-0.079295	-3.943931	-0.000624692514721	-0.001857556024841	0.000029761180096
252	minimi	0.256161	-0.086639	-4.251426	-0.000682031808694	-0.002008787814719	0.000027415513275
253	massimi	0.293688	-0.095138	-4.700304	-0.000640338365609	-0.001807362277784	0.000026703116691
253	minimi	0.271554	-0.103835	-5.064889	-0.000699092061345	-0.001954276776831	0.000024597650979
254	massimi	0.293822	-0.062927	-2.32308	-0.000635418560093	-0.001851123095252	0.000026987533135
254	minimi	0.271678	-0.068868	-2.494125	-0.000693771712865	-0.002002061949646	0.000024857960207
255	massimi	0.258289	-0.062529	-3.122536	-0.000594923027019	-0.001852777616375	0.000027896779382
255	minimi	0.238946	-0.068437	-3.366961	-0.000649500502176	-0.002003868336	0.00002569888198

256	massimi	0.258424	-0.095535	-5.499759	-0.000590003221502	-0.001805707756661	0.000027612362937
256	minimi	0.239069	-0.104266	-5.937725	-0.000644180153696	-0.001952470390477	0.000025438572753
257	massimi	-1.927586	1.671892	-4.214092	-0.001012698679894	-0.001375986853906	0.000067827769795
257	minimi	-2.108075	1.530005	-4.544042	-0.001108963637923	-0.001498385536643	0.000065672226654
258	massimi	-3.281404	3.154391	-4.310681	-0.000492560326304	-0.000524235797852	0.000221806567758
258	minimi	-3.57891	2.896131	-4.649862	-0.000516873445263	-0.000571484081719	0.000205393815947
259	massimi	-4.517509	3.661702	-4.376736	-0.000275792997069	-0.001575418691258	0.000329919340796
259	minimi	-4.934729	3.411127	-4.722398	-0.000313555826458	-0.001731818577148	0.000303496208429
260	massimi	1.37526	-0.702111	-7.652878	0.000235012293399	0.00067989014169	0.000147196500761
260	minimi	1.212579	-0.788385	-8.113764	0.000212615294937	0.000649872326656	0.000127813539025
261	massimi	3.369986	-0.804579	-8.937376	0.000210609872629	0.001568102219467	0.000249747854697
261	minimi	2.976136	-0.901177	-9.619964	0.000188576926559	0.001492866963547	0.000221189878266
262	massimi	1.288903	-0.100402	-8.336453	0.00037761051215	-0.000535777524	0.00018470289962
262	minimi	1.128055	-0.162078	-8.874155	0.00033887287741	-0.000552279272901	0.000168871149125
263	massimi	3.315886	0.038701	-12.405328	0.000403846995471	-0.001013632605175	0.000284941877868
263	minimi	2.927064	-0.004566	-13.481557	0.000358108058358	-0.001034942001565	0.000256576631191
264	massimi	5.143586	-0.075457	-14.262316	0.000179127943699	-0.000923112121962	0.000150318864557
264	minimi	4.560061	-0.131901	-15.633233	0.000156298072649	-0.00092833926079	0.000135503201285
265	massimi	5.189802	-0.647666	-9.025898	0.000074379146191	0.001747772312892	0.00013574411897
265	minimi	4.601757	-0.720515	-9.720378	0.000066309353852	0.001651045505836	0.000123133023285
266	massimi	5.393175	-0.383689	-8.988225	0.000052095525229	0.001778250918072	-0.000058528906088
266	minimi	4.780191	-0.429023	-9.6773	0.00004718129015	0.001677826163962	-0.000064840116562
267	massimi	5.346907	-0.250186	-14.597184	0.000095322430119	-0.000896052977391	-0.000032133648975
267	minimi	4.738482	-0.327622	-16.016686	0.000084176035566	-0.000897380505753	-0.000037058299267
268	massimi	4.243993	-0.226663	-8.911961	-0.000014661612922	0.001727938681029	-0.000160974124973
268	minimi	3.742639	-0.248083	-9.58136	-0.000017846627951	0.001631149013536	-0.000183766799546
269	massimi	4.194503	-0.332805	-14.242468	-0.000027740241904	-0.000896061130917	-0.000124573387817
269	minimi	3.697851	-0.420758	-15.612373	-0.000029530929073	-0.000898996698201	-0.000140562959462
270	massimi	2.822589	-0.411214	-8.606054	-0.000035095188944	0.001022870535984	-0.000008578947487
270	minimi	2.492712	-0.447676	-9.156655	-0.000036564502981	0.000957494745547	-0.00001891401472
271	massimi	2.744324	-0.315456	-12.629683	-0.000016635819848	-0.000381722551938	-0.000127722643479
271	minimi	2.419002	-0.402016	-13.760883	-0.000018471041106	-0.000394920931368	-0.000144033130931
272	massimi	0.043227	0.013893	-10.363259	0.000099084604938	0.00010432279736	0.000005107969306
272	minimi	0.037543	0.013252	-11.479858	0.000089000707548	0.000091700536866	0.000004789190668
273	massimi	0.027579	0.028756	-10.363259	0.000099084604937	0.000104322797359	0.000005107969305
273	minimi	0.023788	0.026602	-11.479858	0.000089000707546	0.000091700536866	0.000004789190666
274	massimi	0.030547	0.025644	-10.266609	0.000023830507921	0.000176745873346	0.000004687475606
274	minimi	0.026578	0.023684	-11.370727	0.000021466094679	0.000156720152652	0.000004397747127
275	massimi	0.030503	0.031677	-10.383964	0.000023554205151	0.000028719492494	0.000004593076205
275	minimi	0.026536	0.029344	-11.504235	0.000021223222431	0.000023885475569	0.000004310417529
276	massimi	0.024472	0.03172	-10.270064	0.000171594459549	0.000028981921718	0.0000046836109
276	minimi	0.020881	0.029381	-11.377431	0.000154065050112	0.000024121197219	0.000004388507712
277	massimi	0.024427	0.025601	-10.15271	0.00017131815678	0.000176483444122	0.0000047780103
277	minimi	0.02084	0.023647	-11.243923	0.000153822177864	0.000156484431002	0.00000447583731
278	massimi	0.395116	-0.276108	-10.513739	0.00019833106425	0.000017118122878	0.000002382078375
278	minimi	0.34556	-0.30248	-11.650483	0.000183094120389	0.000016372682221	0.000000013361196
279	massimi	0.031192	0.012733	-15.69538	0.000069107351918	0.000331017701279	0.000003331200586
279	minimi	0.027797	0.011783	-17.740266	0.00006008069659	0.000288864285099	0.000003154199295
280	massimi	-0.015533	0.023099	-15.69538	0.000069107351917	0.000331017701274	0.000003331200585
280	minimi	-0.018461	0.020795	-17.740266	0.000060080696589	0.000288864285095	0.000003154199294
281	massimi	-0.013589	0.021027	-15.402221	-0.000042960901809	0.000442458361809	0.000003123928403
281	minimi	-0.016401	0.018838	-17.406029	-0.000047902242821	0.000387049272721	0.000002952976744
282	massimi	-0.013622	0.025018	-15.771898	-0.000043725969502	0.000209486129841	0.000003048099773
282	minimi	-0.016437	0.022614	-17.829652	-0.000048778955389	0.000181873412613	0.000002884711421
283	massimi	-0.017341	0.024989	-15.695009	0.000184886955782	0.000209669163206	0.000002987496116
283	minimi	-0.020363	0.02259	-17.741211	0.000162055832362	0.00018203253855	0.000002833720997
284	massimi	-0.017373	0.021056	-15.325333	0.000184010243214	0.000442275328443	0.000003063324746
284	minimi	-0.020399	0.018862	-17.317588	0.000161290764668	0.000386890146784	0.00000290198632
285	massimi	0.909022	-0.200766	-15.952886	0.000157280144863	0.000137786181436	-0.000015758373284
285	minimi	0.79067	-0.230623	-18.036955	0.000137907411993	0.000130350915178	-0.000019742996581
286	massimi	0.042303	0.007271	-16.042498	0.000013951723721	0.000489998733644	0.000004172046046
286	minimi	0.03787	0.006992	-18.137495	0.000009857092068	0.000427363687253	0.000003932025715
287	massimi	-0.026235	0.009364	-16.042498	0.000013951723721	0.000489998733635	0.000004172046045
287	minimi	-0.031197	0.00847	-18.137495	0.000009857092068	0.000427363687245	0.000003932025714
288	massimi	-0.023803	0.006828	-15.625205	-0.000094592759309	0.000601640596127	0.00000389359671
288	minimi	-0.028605	0.006083	-17.662375	-0.000104704113319	0.000525728306686	0.000003663813507
289	massimi	-0.023816	0.011838	-16.172128	-0.000095724647768	0.000363419502107	0.000003862856541
289	minimi	-0.02862	0.010801	-18.289455	-0.000106001893004	0.000315971097179	0.000003636007818
290	massimi	-0.028479	0.01179	-16.159513	0.000133480029047	0.000363456453761	0.00000376044388

290	minimi	-0.033567	0.01076	-18.2716	0.000115138343327	0.00031599720405	0.000003549885501
291	massimi	-0.028493	0.006876	-15.612591	0.000132182249362	0.000601603644473	0.000003791184049
291	minimi	-0.033582	0.006124	-17.64452	0.000114006454868	0.000525702199815	0.000003577691189
292	massimi	1.316464	-0.039389	-16.305284	0.000039795137427	0.000217345551865	0.000002701218597
292	minimi	1.15127	-0.052857	-18.440189	0.000032500762967	0.000198540411814	0.000001527060223
293	massimi	0.019608	0.000488	-16.081371	0.000002394111574	0.000502147254058	0.000007542363911
293	minimi	0.016955	0.000087	-18.183174	0.000000531591022	0.000437542598992	0.000006971103441
294	massimi	-0.048677	0.000568	-16.081371	0.000002394111574	0.000502147254049	0.000007542363908
294	minimi	-0.055715	0.000446	-18.183174	0.000000531591022	0.000437542598984	0.000006971103438
295	massimi	-0.044369	-0.003618	-15.65122	-0.000104026613682	0.000613898828201	0.000007010796138
295	minimi	-0.051044	-0.004084	-17.69244	-0.000116379661377	0.000536003693995	0.000006475426929
296	massimi	-0.04437	0.004973	-16.211169	-0.000105185461363	0.000375087969225	0.000007009332209
296	minimi	-0.051045	0.00475	-18.335068	-0.000117709616865	0.000325743234256	0.000006473562843
297	massimi	-0.052661	0.004887	-16.210489	0.000122424856707	0.000375094310118	0.000006826433575
297	minimi	-0.060015	0.004674	-18.332004	0.000106232438119	0.000325744642194	0.000006313767653
298	massimi	-0.052662	-0.003542	-15.65054	0.000121094901218	0.000613892487309	0.000006827897504
298	minimi	-0.060016	-0.003998	-17.689376	0.000105073590438	0.000536002286057	0.000006315631739
299	massimi	1.295077	-0.018686	-16.344711	0.000011004205806	0.000236123917529	0.000032053810221
299	minimi	1.129514	-0.026232	-18.486524	0.000008192582327	0.000214541706221	0.000030278072836
300	massimi	-0.033823	-0.009099	-15.999213	-0.000018412656465	0.00039664951863	0.00001040163581
300	minimi	-0.037267	-0.010503	-18.086268	-0.000018662151487	0.000342117948623	0.000009535778788
301	massimi	-0.085141	-0.011899	-15.999213	-0.000018412656465	0.000396649518621	0.000010401635806
301	minimi	-0.096765	-0.013265	-18.086268	-0.000018662151487	0.000342117948615	0.000009535778785
302	massimi	-0.079197	-0.017596	-15.618639	-0.000122496255996	0.000509323501574	0.000009678483248
302	minimi	-0.090268	-0.019482	-17.650668	-0.000136350934122	0.000441450200423	0.000008867394033
303	massimi	-0.079178	-0.006122	-16.056468	-0.000123402367978	0.00027188387128	0.000009722028004
303	minimi	-0.090248	-0.00696	-18.158284	-0.000137401474975	0.00023235640036	0.000008906455119
304	massimi	-0.090539	-0.006254	-16.080351	0.000101137462771	0.000271835104682	0.000009404370058
304	minimi	-0.10264	-0.00711	-18.181848	0.000086646971462	0.000232306972965	0.000008626956961
305	massimi	-0.09052	-0.017464	-15.642522	0.000100086921918	0.000509372268173	0.000009360825303
305	minimi	-0.10262	-0.019331	-17.674232	0.00008574085948	0.000441499627818	0.000008587895875
306	massimi	0.839418	0.043974	-16.261318	-0.000046239860947	0.000249277538471	0.000055061512552
306	minimi	0.717423	0.042629	-18.388139	-0.00005026970689	0.000226241945486	0.000050208167942
307	massimi	-0.028688	0.062805	-8.002959	0.000100001908976	0.000198924044947	-0.000002107539741
307	minimi	-0.032747	0.05719	-8.4881	0.000086810243641	0.000189081251381	-0.00000250867718
308	massimi	-0.028772	0.061201	-8.093204	0.000087522563436	0.000111250074063	-0.000002331074746
308	minimi	-0.032839	0.055842	-8.582612	0.000075116492094	0.000106946499142	-0.000002761555229
309	massimi	-0.028863	0.059471	-8.136167	0.000098828177103	0.00002401989716	-0.000002320965384
309	minimi	-0.03294	0.054378	-8.626668	0.000085681916169	0.00002275238905	-0.000002742585403
310	massimi	-0.027588	0.057672	-8.07693	0.000139238074957	-0.000022467858464	-0.000002391852712
310	minimi	-0.031431	0.052852	-8.557592	0.000123560637888	-0.00002683549613	-0.00000282145777
311	massimi	-0.0263	0.057657	-7.996085	0.000185393860128	-0.000021751963792	-0.000002339060293
311	minimi	-0.02991	0.052839	-8.467273	0.000166818759585	-0.000026034207543	-0.000002770241006
312	massimi	-0.024991	0.05762	-7.894	0.000230779873559	-0.000020935509406	-0.000002423847628
312	minimi	-0.028364	0.052806	-8.354293	0.000209384235005	-0.000025132521552	-0.000002857843537
313	massimi	-0.023671	0.059432	-7.768994	0.000271177891304	0.000025534034537	-0.000002415384759
313	minimi	-0.026804	0.054344	-8.21861	0.000247252266915	0.000024435124095	-0.000002849962504
314	massimi	-0.02376	0.061201	-7.725764	0.000281568579295	0.000111250074063	-0.000002320992945
314	minimi	-0.026902	0.055842	-8.174258	0.000256994434135	0.000106946499142	-0.000002750089844
315	massimi	-0.023846	0.062843	-7.635786	0.000270004159431	0.000197241309902	-0.000002201959117
315	minimi	-0.026996	0.057224	-8.080042	0.000246123939443	0.000187567114005	-0.000002616054281
316	massimi	-0.025083	0.064424	-7.627163	0.000229858921093	0.000245995992951	-0.00000212868356
316	minimi	-0.028464	0.058551	-8.076719	0.000208498908474	0.000233255143827	-0.000002534352404
317	massimi	-0.0263	0.064402	-7.72923	0.000185393860128	0.000246628859521	-0.00000231620249
317	minimi	-0.02991	0.058532	-8.18968	0.000166818759584	0.000233813177747	-0.000002745189526
318	massimi	-0.027496	0.064372	-7.810093	0.000140159027423	0.000247698967529	-0.000002096688644
318	minimi	-0.031331	0.058505	-8.280017	0.000124445964419	0.000234787492885	-0.000002497966637
319	massimi	0.069931	0.119167	-8.530796	0.000112823160288	0.000202915366522	0.000007199532036
319	minimi	0.060881	0.108595	-9.0649	0.000095209101252	0.000173663752427	0.000006403503524
320	massimi	0.069726	0.123708	-8.609403	0.000099459930918	0.000108659603289	0.000007288234199
320	minimi	0.060695	0.112632	-9.159678	0.000082827659802	0.000085546375188	0.000006474602149
321	massimi	0.069542	0.127992	-8.637348	0.000111676759698	0.00001359930922	0.000006726724845
321	minimi	0.060527	0.116437	-9.200241	0.000094306554104	-0.000003204399328	0.000005973026009
322	massimi	0.065759	0.132206	-8.554439	0.000155078172259	-0.00003963519381	0.000006705993919
322	minimi	0.057167	0.120175	-9.116233	0.000134856908636	-0.000052905534277	0.000005951125401
323	massimi	0.061969	0.132265	-8.466526	0.000204631166735	-0.000038736131514	0.000007256038053
323	minimi	0.053802	0.120227	-9.016207	0.000181088433348	-0.000052092582083	0.000006445680105
324	massimi	0.058128	0.132313	-8.355862	0.000253334511661	-0.000037755510472	0.000006781379587
324	minimi	0.050392	0.120268	-8.891839	0.000226568060348	-0.00005124210775	0.000006016575844

325	massimi	0.054237	0.128072	-8.238767	0.000296722816796	0.000015456651774	0.000006949194626
325	minimi	0.046938	0.116506	-8.749842	0.000267106815459	-0.000001560743287	0.000006166176062
326	massimi	0.054049	0.123708	-8.210532	0.000307929778736	0.000108659603289	0.000007264480143
326	minimi	0.046767	0.112632	-8.708952	0.000277692027695	0.000085546375188	0.000006453978687
327	massimi	0.053848	0.119087	-8.132214	0.000295576416206	0.000201058023968	0.000007422001817
327	minimi	0.046585	0.108525	-8.6145	0.000266204268311	0.000172020096386	0.000006596653577
328	massimi	0.057924	0.114378	-8.142419	0.000252435003544	0.000253476148502	0.000007435261932
328	minimi	0.050207	0.104337	-8.620728	0.000225859888622	0.000221076324681	0.000006611917142
329	massimi	0.061969	0.114457	-8.25307	0.000204631166735	0.000254194211839	0.000007306672503
329	minimi	0.053802	0.104406	-8.745078	0.000181088433348	0.000221720090548	0.000006491781333
330	massimi	0.065962	0.114485	-8.340997	0.000155977680376	0.00025535583184	0.000007359876264
330	minimi	0.057352	0.10443	-8.845122	0.000135565080363	0.00022739751208	0.000006546466699
331	massimi	-0.069967	0.033475	-10.05774	-0.000016743229361	0.000304383112993	0.000001659606225
331	minimi	-0.0829	0.030265	-10.792786	-0.000018934186949	0.000287147688898	0.000001652755123
332	massimi	-0.070016	0.034468	-10.200797	-0.000033171582291	0.000188709755133	0.000001499330194
332	minimi	-0.082953	0.03127	-10.943715	-0.000034172482603	0.000180021584314	0.000001459677675
333	massimi	-0.070065	0.03539	-10.281967	-0.000018734191221	0.000071639158726	0.000001540095195
333	minimi	-0.083008	0.032209	-11.027834	-0.000020833485202	0.000071562569851	0.000001521018997
334	massimi	-0.070921	0.036249	-10.302566	0.00003500640591	0.000010366976365	0.000001431295306
334	minimi	-0.083853	0.033094	-11.044503	0.000028958177836	0.00000560280695	0.000001394570926
335	massimi	-0.07174	0.036178	-10.269551	0.000096198276509	0.000010646578088	0.000001507719693
335	minimi	-0.084654	0.033033	-11.006817	0.000085661325282	0.000005928541488	0.000001469862242
336	massimi	-0.072499	0.036102	-10.208632	0.000156990723338	0.000011153836616	0.000001344022603
336	minimi	-0.085386	0.03297	-10.939014	0.000142008799312	0.000006486456599	0.000001291587631
337	massimi	-0.073231	0.035281	-10.093424	0.000210725156047	0.000072512306364	0.000001282546963
337	minimi	-0.086083	0.032117	-10.816099	0.00019179497314	0.000072340078415	0.000001217107644
338	massimi	-0.073276	0.034468	-10.012117	0.000224687805002	0.000188709755133	0.000001526830376
338	minimi	-0.086133	0.03127	-10.731826	0.000204711228678	0.000180021584314	0.000001492128364
339	massimi	-0.073329	0.033584	-9.869197	0.000208734194187	0.000303509965354	0.000001402057993
339	minimi	-0.086192	0.030358	-10.58105	0.000189895674887	0.000286370180334	0.00000134884377
340	massimi	-0.072551	0.032633	-9.759469	0.000155428542675	0.000368156814035	0.000001509304344
340	minimi	-0.085442	0.029387	-10.468173	0.000140518541229	0.000346240910067	0.000001473776475
341	massimi	-0.07174	0.032566	-9.820358	0.000096198276509	0.000368258739813	0.000001520519278
341	minimi	-0.084654	0.02933	-10.535946	0.000085661325282	0.000346313172947	0.000001483971131
342	massimi	-0.07087	0.032486	-9.853403	0.000036568586573	0.000369040463684	0.000001596577047
342	minimi	-0.083796	0.029262	-10.573662	0.000030448435919	0.000347027770318	0.000001576759769
343	massimi	0.047251	0.100778	-12.778408	0.000008760588096	0.000389513211289	0.000006709416641
343	minimi	0.039361	0.091054	-13.81173	-0.000000864100938	0.000337740233349	0.000006008681566
344	massimi	0.047077	0.105003	-12.942404	-0.000012658308558	0.000238819847204	0.000006775789412
344	minimi	0.039204	0.094835	-14.003957	-0.000020433585082	0.000199106727945	0.000006060534292
345	massimi	0.046921	0.10901	-13.026406	0.00000624094689	0.000086358227706	0.000006308099065
345	minimi	0.039063	0.098421	-14.109193	-0.000002964753468	0.000058999008595	0.000005646222717
346	massimi	0.043379	0.112952	-13.018951	0.000076168536644	0.000000445919348	0.00000627505484
346	minimi	0.035893	0.101946	-14.10974	0.000061326277331	-0.000019941760046	0.000005612544392
347	massimi	0.039838	0.112991	-12.963231	0.000155835153668	0.000001018785199	0.000006751313792
347	minimi	0.032725	0.101978	-14.043893	0.000134494859476	-0.000019430619792	0.000006039012375
348	massimi	0.036264	0.113021	-12.871467	0.000234854727182	0.000001877376474	0.000006323518411
348	minimi	0.02953	0.102003	-13.938854	0.000207105005197	-0.000018706328755	0.000005652354723
349	massimi	0.032653	0.109061	-12.730379	0.0003047723235086	0.000087772671395	0.000006451119356
349	minimi	0.026303	0.098463	-13.766195	0.000271387421074	0.000060219756293	0.000005763706528
350	massimi	0.032495	0.105003	-12.646162	0.000322902534887	0.000238819847204	0.00000676051852
350	minimi	0.02616	0.094835	-13.66071	0.000288192512648	0.000199106727945	0.00000604799004
351	massimi	0.032323	0.100727	-12.48238	0.000302252693879	0.0003880987676	0.000006852436931
351	minimi	0.026005	0.091012	-13.468732	0.000269286768544	0.00033651948565	0.000006126165378
352	massimi	0.036092	0.09637	-12.374686	0.000232877723911	0.000472248869651	0.00000687853213
352	minimi	0.029374	0.087113	-13.342986	0.00020545675587	0.000413990584248	0.000006153627645
353	massimi	0.039838	0.096426	-12.466417	0.000155835153668	0.000472530392826	0.000006794292188
353	minimi	0.032725	0.087161	-13.447987	0.000134494859476	0.000414233767275	0.000006077829265
354	massimi	0.043552	0.096439	-12.52217	0.000078145539914	0.000473680326778	0.000006830068558
354	minimi	0.036049	0.08717	-13.513872	0.000062974526657	0.000415226015538	0.000006113817315
355	massimi	0.109262	0.165401	-12.978678	-0.000222163081365	0.000238076505104	0.000023381310431
355	minimi	0.093724	0.151803	-13.960474	-0.000234635791059	0.000204354160297	0.00002126079472
356	massimi	0.109161	0.173047	-13.034002	-0.000229858067706	0.000170832336074	0.000023693425469
356	minimi	0.093632	0.158754	-14.025872	-0.000242972722413	0.000142055741072	0.000021532509503
357	massimi	0.109072	0.180585	-13.070919	-0.00022583676896	0.000103313018939	0.000023033917456
357	minimi	0.09355	0.165606	-14.0714	-0.000235141587703	0.00007952852226	0.000020942094488
358	massimi	0.101537	0.188089	-13.155535	-0.000180800859948	0.00005813630804	0.000022970448172
358	minimi	0.086699	0.172426	-14.166747	-0.000190033256974	0.00003768502151	0.000020878738348
359	massimi	0.094	0.188136	-13.203112	-0.000118127300633	0.000049626848689	0.000023698596048

359	minimi	0.079849	0.172466	-14.21643	-0.000122349039354	0.000029808653279	0.000021537670865
360	massimi	0.086405	0.188192	-13.232238	-0.000054467762401	0.000057774059681	0.000023159154635
360	minimi	0.072948	0.172513	-14.246192	-0.000055263481655	0.000037335272782	0.000021039034955
361	massimi	0.078754	0.180646	-13.224456	-0.000009274801431	0.000102978328653	0.000023373576439
361	minimi	0.065999	0.165658	-14.230424	-0.000013398954692	0.000079205380695	0.000021230617633
362	massimi	0.078669	0.173047	-13.18756	-0.000001239764738	0.000170832336074	0.000023681127993
362	minimi	0.06592	0.158754	-14.184917	-0.000005927697678	0.000142055741072	0.000021522063418
363	massimi	0.078565	0.16534	-13.132216	-0.000009780598076	0.00023841119539	0.000023720969413
363	minimi	0.065825	0.151751	-14.119498	-0.000013819550223	0.000204677301862	0.000021549317865
364	massimi	0.086292	0.157581	-13.0476	-0.000054935080523	0.000283497297668	0.000023784438698
364	minimi	0.072845	0.1447	-14.024151	-0.000055652080346	0.000246449148183	0.000021612674005
365	massimi	0.094	0.157644	-13.01845	-0.000118127300633	0.000291359806365	0.000023675957413
365	minimi	0.079849	0.144754	-13.99436	-0.000122349039354	0.000253739023306	0.000021516902056
366	massimi	0.10165	0.157684	-12.970897	-0.000180412261257	0.000283135049308	0.000023595732234
366	minimi	0.086803	0.144788	-13.944706	-0.000189565938851	0.000246099399455	0.000021452377398
367	massimi	-0.077222	0.00783	-10.193066	-0.000089077318949	0.00042051808056	0.000001886172348
367	minimi	-0.091042	0.007231	-10.948132	-0.000095072104197	0.000389879201354	0.000001627332875
368	massimi	-0.077235	0.00897	-10.399402	-0.000105094954563	0.000301989644572	0.000001732740498
368	minimi	-0.091055	0.008216	-11.170589	-0.000112385750698	0.000280244701705	0.000001496719819
369	massimi	-0.077248	0.010092	-10.542126	-0.000092034010362	0.000181225226815	0.000001851888178
369	minimi	-0.09107	0.009184	-11.324277	-0.000098258213278	0.000168535223475	0.00000159593144
370	massimi	-0.078127	0.011169	-10.661397	-0.000040659509395	0.000112740401418	0.000001733981217
370	minimi	-0.09209	0.010112	-11.45193	-0.000042721385439	0.000105181144418	0.000001495427694
371	massimi	-0.078967	0.011087	-10.665916	0.000020661167883	0.0001125858343	0.000001749943914
371	minimi	-0.093063	0.010043	-11.456139	0.000017972918747	0.000105031851661	0.000001511211905
372	massimi	-0.079742	0.011008	-10.641688	0.000083957934205	0.000112930188953	0.000001620768574
372	minimi	-0.09396	0.009976	-11.429273	0.000076530721736	0.000105346238471	0.000001399363186
373	massimi	-0.080483	0.009972	-10.502567	0.000139493438068	0.000181412758761	0.000001517789258
373	minimi	-0.094818	0.009082	-11.278801	0.000127904070992	0.000168698355416	0.00000131243794
374	massimi	-0.080492	0.00897	-10.359814	0.000153519011847	0.000301989644572	0.000001768414519
374	minimi	-0.094827	0.008216	-11.12508	0.000140876318163	0.000280244701705	0.000001526990355
375	massimi	-0.080509	0.00795	-10.153507	0.000136307328987	0.000420330548614	0.000001552073428
375	minimi	-0.094846	0.007333	-10.902657	0.000124947379579	0.000389716069413	0.000001343839375
376	massimi	-0.079755	0.00688	-9.942463	0.00008145799782	0.000486606321816	0.000001668183003
376	minimi	-0.093974	0.006408	-10.675794	0.000074210794748	0.000451020291447	0.000001442790841
377	massimi	-0.078967	0.006803	-9.966645	0.000020661167883	0.000486220962964	0.000001753615735
377	minimi	-0.093063	0.006343	-10.702611	0.000017972918747	0.000450657508205	0.000001514574987
378	massimi	-0.078114	0.006719	-9.962172	-0.000038339582407	0.000486796109351	0.000001781395646
378	minimi	-0.092075	0.006272	-10.69845	-0.000040221449054	0.0004511853855	0.000001538855349
379	massimi	0.029649	0.056526	-14.228928	-0.000140031632797	0.000473739009041	0.000002883855339
379	minimi	0.023027	0.051084	-15.503162	-0.000147151646625	0.000415961504878	0.000002657506261
380	massimi	0.029553	0.058344	-14.435659	-0.000162106115476	0.00030189450293	0.00000290549862
380	minimi	0.022941	0.052758	-15.740886	-0.000171453436847	0.000259123164505	0.000002670638589
381	massimi	0.029466	0.060042	-14.55168	-0.000142765481807	0.00012781472787	0.00000266086412
381	minimi	0.022862	0.054322	-15.879188	-0.000150336749699	0.000100366240131	0.000002455866775
382	massimi	0.027966	0.061704	-14.640734	-0.00006964929487	0.00002928166088	0.000002648080755
382	minimi	0.021479	0.055853	-15.984536	-0.000070186573756	0.000010517432309	0.000002439733259
383	massimi	0.026464	0.06173	-14.653891	0.000020885158198	0.000029179755125	0.000002890429628
383	minimi	0.020095	0.055873	-15.995541	0.000013371813028	0.000010418084694	0.000002657821944
384	massimi	0.024939	0.06175	-14.626071	0.000111870172836	0.000029473505966	0.000002680274104
384	minimi	0.018694	0.055888	-15.961634	0.000096337399789	0.000010640261956	0.000002464178423
385	massimi	0.023394	0.060076	-14.522248	0.000192019011004	0.000128004292802	0.000002755869546
385	minimi	0.017276	0.054348	-15.833219	0.000169452730209	0.000100487609899	0.00000252800662
386	massimi	0.023304	0.058344	-14.406206	0.000213032628668	0.00030189450293	0.000002895305724
386	minimi	0.017195	0.052758	-15.694884	0.000188727373194	0.000259123164505	0.000002662935907
387	massimi	0.02321	0.056492	-14.199496	0.00018883390793	0.00047354944411	0.000002978860764
387	minimi	0.01711	0.051059	-15.457193	0.000166718881199	0.000415840135109	0.000002729646107
388	massimi	0.024843	0.054598	-13.979545	0.00010937102368	0.000569874115582	0.000002988666242
388	minimi	0.018607	0.049319	-15.208392	0.000094192321188	0.000503793922259	0.000002743041568
389	massimi	0.026464	0.054632	-14.007324	0.000020885158198	0.000569438388997	0.000002914310478
389	minimi	0.020095	0.049347	-15.24225	0.000013371813028	0.00050338997186	0.000002679416168
390	massimi	0.028062	0.054644	-13.994208	-0.000067504216269	0.000570065960668	0.000002956472893
390	minimi	0.021565	0.049354	-15.231294	-0.000067687424599	0.000503916751907	0.000002718596403
391	massimi	0.071323	0.157226	-16.239424	-0.000113713630038	0.000568091451746	0.00000807186473
391	minimi	0.05983	0.144385	-17.591816	-0.00011553529691	0.000483682437067	0.000006826158816
392	massimi	0.071234	0.159873	-16.382562	-0.000123887172694	0.000482696785782	0.000008141492622
392	minimi	0.059748	0.146623	-17.761158	-0.000126663730637	0.000405102585297	0.00000687250301
393	massimi	0.071148	0.16242	-16.502467	-0.000114913048912	0.000396524672711	0.000007750918641
393	minimi	0.059669	0.14877	-17.905244	-0.000116964687777	0.000325870262156	0.00000653181144

394	massimi	0.068603	0.164928	-16.62859	-0.000059611312395	0.000339064970239	0.000007675590513
394	minimi	0.057523	0.15088	-18.053504	-0.000062157917295	0.000273024679645	0.000006458546738
395	massimi	0.066057	0.164965	-16.634625	0.000026817211108	0.000328311172968	0.000008147629292
395	minimi	0.055377	0.150911	-18.057464	0.000017292530433	0.000263153291787	0.000006878471582
396	massimi	0.06347	0.165001	-16.617361	0.000113202541941	0.000339144370051	0.000007808200498
396	minimi	0.053197	0.150941	-18.036091	0.00009671512625	0.000273075878991	0.000006569717007
397	massimi	0.060843	0.162463	-16.479991	0.000170537367549	0.000396598032176	0.00000798607723
397	minimi	0.050983	0.148806	-17.870388	0.000149458296424	0.000325917566507	0.000006731910472
398	massimi	0.06076	0.159873	-16.360083	0.000180191717924	0.000482696785782	0.000008132850797
398	minimi	0.050906	0.146623	-17.726298	0.00015840360117	0.000405102585297	0.000006865258352
399	massimi	0.060668	0.157183	-16.216947	0.000169108209462	0.000568018092281	0.000008310553812
399	minimi	0.050822	0.144349	-17.55696	0.000148258877549	0.000483635132716	0.000007026257848
400	massimi	0.063366	0.154448	-16.090825	0.000111882107174	0.000625137867478	0.00000838588194
400	minimi	0.053102	0.142034	-17.408701	0.000095606953265	0.000536196606107	0.00000709952255
401	massimi	0.066057	0.15449	-16.10802	0.000026817211108	0.000635166621529	0.000008126714127
401	minimi	0.055377	0.142069	-17.429992	0.000017292530432	0.00054544406565	0.00000685928978
402	massimi	0.068707	0.154521	-16.102054	-0.000058290877629	0.00062521726729	0.000008253271955
402	minimi	0.057618	0.142094	-17.426114	-0.000061049744311	0.000536247805453	0.000006988352281
403	massimi	-0.101145	0.003563	-10.182745	-0.000099831775755	0.000414279600017	-0.000004959834342
403	minimi	-0.117403	0.003322	-10.935184	-0.000107610678211	0.000383470771712	-0.000005500607306
404	massimi	-0.101136	0.000153	-10.385107	-0.000115785590556	0.000295820013302	-0.000005296530184
404	minimi	-0.117393	0.000047	-11.153779	-0.000124856227798	0.000273890010416	-0.000005884423147
405	massimi	-0.101145	-0.003015	-10.52389	-0.000102721422685	0.000175170125799	-0.000004960420903
405	minimi	-0.117403	-0.003469	-11.303644	-0.000110731695265	0.000162281321735	-0.000005500786889
406	massimi	-0.098378	-0.00623	-10.645151	-0.000051367588344	0.000106728062923	-0.000005071248039
406	minimi	-0.114333	-0.007039	-11.434397	-0.000055218280311	0.000098967044264	-0.000005629805615
407	massimi	-0.095575	-0.006306	-10.655571	0.000008094647167	0.000106523200134	-0.000005281868219
407	minimi	-0.111223	-0.007128	-11.445491	0.000007201435779	0.000098775929832	-0.000005867142005
408	massimi	-0.092694	-0.006396	-10.637254	0.000071373964953	0.000106802418019	-0.000005187516791
408	minimi	-0.10802	-0.007232	-11.42552	0.000065740558901	0.000099033194578	-0.000005765109817
409	massimi	-0.08976	-0.003138	-10.508039	0.000126886861199	0.000175243597199	-0.000005303538628
409	minimi	-0.104757	-0.003613	-11.285828	0.000117093931772	0.000162346685865	-0.000005900079642
410	massimi	-0.089764	0.000153	-10.369245	0.000140971446344	0.000295820013302	-0.000005259893163
410	minimi	-0.104761	0.000047	-11.135949	0.000130122560287	0.000273890010416	-0.000005841787936
411	massimi	-0.089761	0.003706	-10.166894	0.000123765844146	0.000414206128616	-0.000005302952067
411	minimi	-0.104757	0.003445	-10.917368	0.000114204284842	0.000383405407582	-0.000005899900059
412	massimi	-0.092694	0.007326	-9.953884	0.000068925102126	0.000480485595919	-0.000005186705587
412	minimi	-0.10802	0.006702	-10.687434	0.000063473237439	0.000444717441017	-0.000005764861456
413	massimi	-0.095575	0.007222	-9.972157	0.000008094647167	0.000480050008305	-0.000005281805398
413	minimi	-0.111223	0.006612	-10.707357	0.000007201435779	0.000444312890886	-0.000005867122771
414	massimi	-0.098377	0.007133	-9.961781	-0.000049100266881	0.000480559951015	-0.000005070436836
414	minimi	-0.114333	0.006536	-10.69631	-0.000052769417484	0.000444783591331	-0.000005629557254
415	massimi	-0.001881	0.027791	-14.443998	-0.000204100979369	0.000476014202171	-0.000001942312261
415	minimi	-0.005886	0.025736	-15.748413	-0.000221172184114	0.000417697026615	-0.000002184088754
416	massimi	-0.00192	0.026413	-14.650827	-0.000226449921266	0.000300715231244	-0.000002053514235
416	minimi	-0.005922	0.024507	-15.98643	-0.000245787998629	0.000257837190398	-0.000002297234025
417	massimi	-0.001964	0.024979	-14.765148	-0.000206821260858	0.00012318972286	-0.000002035978942
417	minimi	-0.005963	0.023228	-16.122971	-0.000224344845418	0.00009606829171	-0.000002285036746
418	massimi	-0.000703	0.02352	-14.885696	-0.000132188050182	0.000022540085337	-0.000002057271139
418	minimi	-0.00484	0.021924	-16.26493	-0.000142457847579	0.000004371340522	-0.000002302528617
419	massimi	0.000555	0.023527	-14.932705	-0.000047588397463	0.000022119610722	-0.000002059227642
419	minimi	-0.003716	0.021927	-16.315059	-0.000049579391429	0.000003996744954	-0.000002304323951
420	massimi	0.001814	0.023521	-14.93788	0.00004350492343	0.000022084663236	-0.000002061791538
420	minimi	-0.002589	0.021918	-16.319298	0.000037208847155	0.000003934207122	-0.000002301852857
421	massimi	0.003074	0.02498	-14.869892	0.000125395097022	0.000122739713631	-0.000002049319039
421	minimi	-0.001459	0.023223	-16.232096	0.000111845106053	0.000095636353814	-0.000002283042517
422	massimi	0.00303	0.026413	-14.755646	0.000147082927445	0.000300715231244	-0.000002052089856
422	minimi	-0.0015	0.024507	-16.095635	0.000131708618001	0.000257837190398	-0.000002297446958
423	massimi	0.002991	0.027791	-14.548741	0.000122222435717	0.0004764642114	-0.000001955652357
423	minimi	-0.001536	0.025741	-15.857539	0.000109124824564	0.000418128964512	-0.000002182094525
424	massimi	0.00177	0.029149	-14.294563	0.000041015536544	0.000574921764042	-0.000001932252499
424	minimi	-0.002629	0.026954	-15.568998	0.00003507441413	0.000507946947758	-0.000002162243919
425	massimi	0.000555	0.02915	-14.289346	-0.000047588397463	0.000574160188643	-0.000002049196575
425	minimi	-0.003716	0.026951	-15.56471	-0.000049579391429	0.000507261389605	-0.000002293513104
426	massimi	-0.00066	0.02915	-14.242379	-0.000130053617158	0.000574466341941	-0.0000019277321
426	minimi	-0.004799	0.026947	-15.51463	-0.000139968460694	0.000507509814357	-0.00000216291968
427	massimi	0.094279	0.025385	-17.652408	-0.000500710782147	0.000232117346266	-0.000000817324809
427	minimi	0.083093	0.023854	-19.12347	-0.000545358277369	0.000173396493121	-0.000003614602203
428	massimi	0.094269	0.024231	-17.69348	-0.000511044134322	0.000138554766582	-0.000000693644205

428	minimi	0.083082	0.023609	-19.182291	-0.000556655785299	0.000087299700419	-0.000003503965132
429	massimi	0.094252	0.023349	-17.709094	-0.000500969257191	0.000044769026094	-0.000000864720104
429	minimi	0.083067	0.023063	-19.213437	-0.000545768507292	0.000001062299985	-0.000003663246335
430	massimi	0.095448	0.023091	-17.85349	-0.00044318621383	-0.000018176746886	-0.000000816544735
430	minimi	0.083349	0.021895	-19.384962	-0.000482945746698	-0.00005682429945	-0.000003605126232
431	massimi	0.096616	0.023138	-17.982064	-0.000356699085339	-0.000030284295827	-0.000000697568852
431	minimi	0.083608	0.02195	-19.525095	-0.000388863358769	-0.00006792644278	-0.000003508699936
432	massimi	0.097723	0.023183	-18.085104	-0.000269637445726	-0.000019328085014	-0.000000648700923
432	minimi	0.083815	0.022001	-19.637461	-0.000294154654895	-0.0000578804063	-0.000003411169664
433	massimi	0.0988	0.023404	-18.172717	-0.000211607669499	0.00004370527611	-0.000000562612495
433	minimi	0.083994	0.023125	-19.718866	-0.000231062913037	0.000000086536551	-0.000003314137517
434	massimi	0.098787	0.024231	-18.157164	-0.000200938332031	0.000138554766582	-0.00000070458212
434	minimi	0.083982	0.023609	-19.687786	-0.000219527571009	0.000087299700419	-0.000003516604743
435	massimi	0.098773	0.025322	-18.116031	-0.000211866144543	0.000233181096251	-0.000000515217201
435	minimi	0.083968	0.023799	-19.628899	-0.000231473142959	0.000174372256556	-0.000003265493384
436	massimi	0.097707	0.026416	-17.971635	-0.00026987625726	0.000296118617447	-0.00000056339257
436	minimi	0.083799	0.023992	-19.457373	-0.000294533676542	0.000232278813199	-0.000003323613487
437	massimi	0.096616	0.026468	-17.86858	-0.000356699085339	0.000306843918463	-0.000000700657472
437	minimi	0.083608	0.024038	-19.344983	-0.000388863358769	0.000242179359512	-0.000003511869939
438	massimi	0.095464	0.026522	-17.740021	-0.000442947402296	0.000294967279318	-0.000000731236382
438	minimi	0.083365	0.024083	-19.204874	-0.000482566725051	0.000231222706348	-0.000003517570055
439	massimi	-0.139405	-0.001941	-10.099559	-0.000126250737863	0.000284428039496	-0.00001401145571
439	minimi	-0.159749	-0.002491	-10.832707	-0.000137331675898	0.000265327327681	-0.000015093901219
440	massimi	-0.139367	-0.010818	-10.228623	-0.000141326803037	0.000167371728296	-0.000014642519504
440	minimi	-0.159707	-0.012058	-10.970782	-0.000153595677775	0.000156912150428	-0.000015792421995
441	massimi	-0.139371	-0.019673	-10.295001	-0.000127906222534	0.000049076168865	-0.000013970109686
441	minimi	-0.159711	-0.0216	-11.041178	-0.000139097513214	0.000047335169405	-0.000015047816266
442	massimi	-0.131591	-0.028588	-10.358872	-0.000077366985613	-0.000014719049189	-0.000014101585421
442	minimi	-0.15133	-0.031212	-11.10942	-0.00008453382711	-0.000017914809635	-0.000015200499525
443	massimi	-0.123781	-0.028677	-10.384063	-0.00002010473211	-0.000014895670478	-0.000014626621168
443	minimi	-0.142912	-0.031316	-11.137174	-0.000022719661163	-0.000018107688415	-0.000015773390443
444	massimi	-0.115869	-0.028802	-10.380918	0.000039188838831	-0.000014903725465	-0.000014252167068
444	minimi	-0.134375	-0.031459	-11.134334	0.000037240998024	-0.000018123505896	-0.000015374353921
445	massimi	-0.107874	-0.019832	-10.339253	0.000093753980819	0.00004886995292	-0.000014414487316
445	minimi	-0.125746	-0.021785	-11.091184	0.000087781523264	0.000047152687971	-0.000015560873506
446	massimi	-0.10787	-0.010818	-10.272907	0.000108364267763	0.000167371728296	-0.000014595070272
446	minimi	-0.125741	-0.012058	-11.020825	0.000101301321376	0.000156912150428	-0.000015737639373
447	massimi	-0.10784	-0.001781	-10.14381	0.000091988143504	0.00028463425544	-0.000014455833341
447	minimi	-0.125709	-0.002306	-10.882714	0.000086126038593	0.000265509809115	-0.000015606958459
448	massimi	-0.115851	0.007414	-9.989414	0.000037803299026	0.000350404641318	-0.000014309347924
448	minimi	-0.134356	0.00723	-10.716733	0.000035942044894	0.00032641958323	-0.000015438088634
449	massimi	-0.123781	0.007268	-9.992533	-0.000020104732109	0.000349984394703	-0.000014631049311
449	minimi	-0.142912	0.007102	-10.719545	-0.000022719661163	0.000326032373139	-0.000015778326124
450	massimi	-0.131609	0.007167	-9.967368	-0.000076068032483	0.000350195945057	-0.000014158766276
450	minimi	-0.15135	0.007015	-10.691819	-0.000083148287305	0.000326234906954	-0.000015264234238
451	massimi	-0.024649	-0.002386	-14.106368	-0.000268889086838	0.000355432283125	-0.000003214924206
451	minimi	-0.025051	-0.003098	-15.365152	-0.000293431988581	0.000309069394074	-0.000003996811011
452	massimi	-0.024635	-0.004419	-14.246729	-0.00029001354067	0.00018440206917	-0.000003341790802
452	minimi	-0.025039	-0.005622	-15.529419	-0.000316675813462	0.000152969314645	-0.000004141055743
453	massimi	-0.024631	-0.006443	-14.2969	-0.00027050297192	0.000012006516611	-0.000003198033233
453	minimi	-0.025037	-0.008135	-15.594835	-0.000295377501307	-0.000004263370894	-0.000003975322445
454	massimi	-0.022419	-0.008477	-14.391155	-0.000197763282078	-0.000085759996575	-0.000003218567042
454	minimi	-0.023256	-0.010657	-15.707947	-0.000215635207019	-0.000093409912463	-0.000003993061489
455	massimi	-0.020204	-0.008491	-14.47502	-0.000115732806375	-0.000086393565156	-0.000003339063698
455	minimi	-0.021472	-0.010669	-15.799214	-0.000125657427797	-0.000093974494182	-0.000004138874519
456	massimi	-0.017973	-0.008514	-14.518065	-0.000033221796213	-0.000086914249747	-0.000003244687525
456	minimi	-0.01967	-0.010692	-15.84574	-0.000035157906073	-0.000094473000903	-0.000004017640333
457	massimi	-0.015726	-0.006471	-14.551631	0.000044592437065	0.000010865982197	-0.000003275117092
457	minimi	-0.017852	-0.008161	-15.871411	0.000039525306767	-0.000005313824106	-0.00000404785679
458	massimi	-0.015721	-0.004419	-14.501646	0.000066510876014	0.00018440206917	-0.000003333560226
458	minimi	-0.017848	-0.005622	-15.806196	0.000059607023721	0.000152969314645	-0.000004133310939
459	massimi	-0.015708	-0.002359	-14.361099	0.000042646924339	0.00035657281754	-0.000003292008065
459	minimi	-0.017838	-0.003072	-15.641728	0.000037911421686	0.000310119847285	-0.000004069345356
460	massimi	-0.017964	-0.000299	-14.136399	-0.000034488109876	0.000453005518363	-0.000003268047384
460	minimi	-0.019662	-0.00052	-15.385647	-0.000036684426997	0.000398161190031	-0.000004047358566
461	massimi	-0.020204	-0.000323	-14.093329	-0.000115732806375	0.000452039257103	-0.000003340872607
461	minimi	-0.021472	-0.000544	-15.339092	-0.000125657427797	0.00039729305862	-0.000004141175799
462	massimi	-0.022428	-0.000336	-14.009489	-0.000196496968415	0.00045185126519	-0.0000032419269
462	minimi	-0.023263	-0.000555	-15.247854	-0.000214108686095	0.000397098101591	-0.000004022779722

463	massimi	0.180373	-0.085908	-16.566978	-0.000652827526389	-0.000513602187979	0.000004594995612
463	minimi	0.1639	-0.093726	-17.904735	-0.000707888332855	-0.000520952157769	0.000002661873518
464	massimi	0.180427	-0.084366	-16.385954	-0.000661288871394	-0.000594011681036	0.000005046683512
464	minimi	0.163948	-0.092809	-17.720127	-0.000717118250235	-0.000608128402897	0.00000313014402
465	massimi	0.180475	-0.082772	-16.181271	-0.000651068789595	-0.000673464439602	0.00000476436127
465	minimi	0.163992	-0.091835	-17.509861	-0.00070608779958	-0.000694325176685	0.000002848188538
466	massimi	0.17956	-0.081133	-16.156559	-0.000597437267404	-0.000727078239561	0.00000496125569
466	minimi	0.16245	-0.090813	-17.494777	-0.000647919575957	-0.000752482582981	0.000003066097914
467	massimi	0.178582	-0.081048	-16.336567	-0.000518027246444	-0.000737122518533	0.00000503064334
467	minimi	0.160852	-0.090718	-17.689982	-0.000561748888425	-0.000763405726794	0.000003112391846
468	massimi	0.177492	-0.080957	-16.492928	-0.000437782873989	-0.000728612003303	0.000005284167335
468	minimi	0.159154	-0.090617	-17.859536	-0.000474673429904	-0.000754145796804	0.000003424601994
469	massimi	0.176357	-0.082667	-16.854582	-0.000383793026384	-0.00067488152214	0.000005345580583
469	minimi	0.157413	-0.091719	-18.24	-0.000416116638103	-0.000695861861379	0.000003493471845
470	massimi	0.176412	-0.084366	-17.059353	-0.00037270962123	-0.000594011681036	0.000005025640257
470	minimi	0.157465	-0.092809	-18.450361	-0.000404149999364	-0.000608128402897	0.000003106781304
471	massimi	0.176459	-0.086013	-17.240289	-0.00038203428959	-0.000512185105441	0.000005176214924
471	minimi	0.157506	-0.093842	-18.634874	-0.000414316104828	-0.000519415473076	0.000003307156824
472	massimi	0.177553	-0.087619	-17.265001	-0.000436157933243	-0.000458043739556	0.000004979320505
472	minimi	0.159209	-0.094829	-18.649957	-0.000473009872347	-0.000460710888229	0.000003089247448
473	massimi	0.178582	-0.087531	-17.10874	-0.000518027246444	-0.00044854326837	0.00000504168043
473	minimi	0.160852	-0.094732	-18.480506	-0.000561748888425	-0.000450437475923	0.000003124533478
474	massimi	0.179499	-0.087443	-16.928632	-0.00059906220815	-0.000459577503298	0.000004656408859
474	minimi	0.162395	-0.094633	-18.285198	-0.000649583133513	-0.000462374102052	0.000002730743369
475	massimi	-0.199458	-0.04081	-8.969203	-0.000219132221215	0.000219600495619	0.000006115385631
475	minimi	-0.221052	-0.04544	-9.534681	-0.000241352955257	0.000195730175649	0.000005259602002
476	massimi	-0.199398	-0.037592	-9.059128	-0.000232037009148	0.000116936305081	0.000005907919095
476	minimi	-0.220986	-0.041694	-9.637215	-0.000255219503355	0.000099875936341	0.000005065553324
477	massimi	-0.19934	-0.034297	-9.093604	-0.000220185951478	0.000013406298609	0.000006274739027
477	minimi	-0.220922	-0.037862	-9.680332	-0.000242586679095	0.000003282198918	0.000005403278286
478	massimi	-0.202303	-0.031051	-9.184852	-0.000175391571488	-0.000045478547108	0.000006031977805
478	minimi	-0.224365	-0.034084	-9.787934	-0.000194567810465	-0.000051627724293	0.000005184687782
479	massimi	-0.205167	-0.03124	-9.265939	-0.000124969127131	-0.000046164998975	0.000005964181766
479	minimi	-0.227697	-0.034294	-9.878439	-0.000140500837665	-0.000052228931488	0.000005116076668
480	massimi	-0.207861	-0.031406	-9.32189	-0.000074027799881	-0.000046769147318	0.000005754980967
480	minimi	-0.230841	-0.034478	-9.942004	-0.000085850492935	-0.000052775654685	0.000004935099526
481	massimi	-0.210468	-0.034562	-9.368665	-0.000029225411822	0.00001213103694	0.000005457300777
481	minimi	-0.233889	-0.038156	-9.989579	-0.000037822620958	0.000002147911463	0.0000046667248
482	massimi	-0.210396	-0.037592	-9.334389	-0.000016757626807	0.000116936305081	0.000005995202554
482	minimi	-0.233809	-0.041694	-9.946686	-0.000024496419777	0.000099875936341	0.000005144200165
483	massimi	-0.21035	-0.040545	-9.244264	-0.000030279142086	0.000220875757287	0.000005297947382
483	minimi	-0.233758	-0.045146	-9.843928	-0.000039056344796	0.000196864463104	0.000004523048516
484	massimi	-0.207799	-0.043558	-9.072694	-0.000074854594746	0.000278921426678	0.000005534597906
484	minimi	-0.230773	-0.048666	-9.650242	-0.000086818517266	0.000251058183441	0.000004736397646
485	massimi	-0.205167	-0.043734	-9.016727	-0.000124969127131	0.000278034718974	0.00000594711508
485	minimi	-0.227697	-0.04886	-9.586658	-0.000140500837665	0.000250270124752	0.000005100688994
486	massimi	-0.202365	-0.043914	-8.935656	-0.000174564776623	0.000277630826467	0.000005811594744
486	minimi	-0.224433	-0.04906	-9.496172	-0.000193599786133	0.000249910253048	0.000004985985901
487	massimi	-0.006166	-0.034671	-12.01262	-0.000343937622559	0.00013367696325	-0.000002544310231
487	minimi	-0.006732	-0.038325	-13.035398	-0.000375690221028	0.000123005019922	-0.000003246411129
488	massimi	-0.006098	-0.036268	-12.04512	-0.000360765067921	-0.000008827124125	-0.000002553674589
488	minimi	-0.006672	-0.040363	-13.070485	-0.000394062312299	-0.000010287181362	-0.000003265038479
489	massimi	-0.006039	-0.03779	-12.001625	-0.000343844493006	-0.000140593910915	-0.000002405694926
489	minimi	-0.006618	-0.042317	-13.022585	-0.000375581687309	-0.00015417515825	-0.000003092144812
490	massimi	-0.004308	-0.039286	-12.059248	-0.00028256583484	-0.000215380382873	-0.000002382501669
490	minimi	-0.00527	-0.044242	-13.085162	-0.000308665428554	-0.000235840471263	-0.000003063996484
491	massimi	-0.002585	-0.03929	-12.19386	-0.000214092076034	-0.00021622481668	-0.000002547253103
491	minimi	-0.003927	-0.044245	-13.232217	-0.000233894193778	-0.000236762293883	-0.000003258524974
492	massimi	-0.00086	-0.039293	-12.294017	-0.000144729385013	-0.000217346971417	-0.000002387279187
492	minimi	-0.002581	-0.044246	-13.341645	-0.000158151806368	-0.000237988956393	-0.000003067141325
493	massimi	0.000875	-0.037795	-12.472849	-0.000083437013413	-0.000142537125772	-0.000002419793806
493	minimi	-0.001226	-0.042321	-13.537394	-0.000091220565775	-0.000156298107781	-0.000003101425518
494	massimi	0.000935	-0.036268	-12.516685	-0.000065459881515	-0.000008827124125	-0.000002552169191
494	minimi	-0.001172	-0.040363	-13.585667	-0.000071585659187	-0.000010287181362	-0.000003264047538
495	massimi	0.001002	-0.034666	-12.483843	-0.00008334388386	0.000135799912781	-0.000002558409111
495	minimi	-0.001112	-0.038322	-13.550207	-0.000091112032057	0.000124948234779	-0.000003255691835
496	massimi	-0.000793	-0.033031	-12.316041	-0.000144656312136	0.000217565935696	-0.000002578981222
496	minimi	-0.002521	-0.036243	-13.367312	-0.000158066646815	0.000199822585256	-0.000003280488378
497	massimi	-0.002585	-0.033042	-12.215886	-0.000214092076034	0.000216364130434	-0.000002562097864

497	minimi	-0.003927	-0.036255	-13.257886	-0.000233894193778	0.000198721759784	-0.000003275045853
498	massimi	-0.004375	-0.033038	-12.081272	-0.000282638907717	0.000215417450565	-0.000002574203703
498	minimi	-0.00533	-0.036248	-13.110829	-0.000308750588106	0.000197855996712	-0.000003277343537
499	massimi	0.054608	-0.219777	-10.610938	-0.000991537199684	-0.00006540135947	-0.000019968108271
499	minimi	0.051083	-0.239332	-11.436244	-0.00107384955678	-0.000091700168111	-0.00002176808973
500	massimi	0.054751	-0.226268	-10.572083	-0.000996972008653	-0.000121386898098	-0.000019881145458
500	minimi	0.051215	-0.246408	-11.405177	-0.001079788926183	-0.000143395224243	-0.000021675596243
501	massimi	0.054878	-0.232617	-10.517828	-0.00099111263824	-0.000177176927048	-0.000019513874645
501	minimi	0.051331	-0.25333	-11.357424	-0.001073490157107	-0.000194859323374	-0.000021273424376
502	massimi	0.06185	-0.238898	-10.765274	-0.000956153441285	-0.00021525977813	-0.000019280750705
502	minimi	0.057727	-0.260178	-11.636443	-0.001035607409543	-0.000229995980978	-0.000021020358884
503	massimi	0.068768	-0.238861	-11.06662	-0.000904261391367	-0.000223543554677	-0.0000199001371
503	minimi	0.064072	-0.260138	-11.962813	-0.000979334825964	-0.000237615743808	-0.00002169621244
504	massimi	0.075642	-0.238828	-11.352435	-0.000850912908708	-0.000218159371264	-0.000019152125635
504	minimi	0.070377	-0.260103	-12.272351	-0.000921484893933	-0.000232673298329	-0.000020882307482
505	massimi	0.08253	-0.232575	-11.693151	-0.000815328223733	-0.000179855933394	-0.000019282358142
505	minimi	0.076694	-0.253285	-12.630324	-0.000882924729189	-0.000197332963585	-0.000021024941108
506	massimi	0.082659	-0.226268	-11.747559	-0.000807961847685	-0.000121386898098	-0.000019889527597
506	minimi	0.076813	-0.246408	-12.678244	-0.000874993840114	-0.000143395224243	-0.000021684592669
507	massimi	0.0828	-0.219819	-11.786261	-0.000814903662289	-0.000062722353125	-0.000019736591768
507	minimi	0.076942	-0.239377	-12.709144	-0.000882565329516	-0.0000892265279	-0.000021519606463
508	massimi	0.075803	-0.213287	-11.538815	-0.000850520645811	-0.000024334950538	-0.000019969715707
508	minimi	0.070525	-0.232256	-12.430125	-0.00092115283562	-0.000053787005027	-0.000021772671955
509	massimi	0.068768	-0.213263	-11.253023	-0.000904261391367	-0.000018748468608	-0.000019870535956
509	minimi	0.064072	-0.23223	-12.120608	-0.000979334825964	-0.00004860558284	-0.000021663976472
510	massimi	0.061689	-0.213217	-10.951654	-0.000956545704182	-0.000027234543673	-0.000020098340778
510	minimi	0.057579	-0.23218	-11.794217	-0.001035939467856	-0.000056464322378	-0.000021910723357
511	massimi	-0.270481	0.027949	-15.193577	-0.000246833311586	0.001056534161671	0.000012912178201
511	minimi	-0.29862	0.0274	-16.471746	-0.000287478405796	0.000955007268337	0.00001190469204
512	massimi	-0.270508	0.032078	-15.490622	-0.000257108952503	0.000976002269932	0.000012468665905
512	minimi	-0.298648	0.031208	-16.800609	-0.000298675634661	0.000881006938348	0.000011503297031
513	massimi	-0.270515	0.036187	-15.765638	-0.000249441777661	0.000893898397265	0.000012847781086
513	minimi	-0.298655	0.034996	-17.10549	-0.000290368131972	0.000805587629994	0.000011842042671
514	massimi	-0.274392	0.040259	-16.092279	-0.000199356795703	0.000839107455612	0.000012575551709
514	minimi	-0.302861	0.03875	-17.472694	-0.000235840536902	0.000755268391542	0.000011593627749
515	massimi	-0.278176	0.040087	-16.143434	-0.000123372571965	0.000828187580377	0.000012490843304
515	minimi	-0.306965	0.038595	-17.534487	-0.000153101597374	0.000745277415024	0.000011523534366
516	massimi	-0.281787	0.039922	-16.172388	-0.00004718964036	0.000838654155751	0.00001195931834
516	minimi	-0.310877	0.038446	-17.572107	-0.000070116067444	0.000754903112729	0.00001103518776
517	massimi	-0.28532	0.035987	-15.925993	0.000002980679827	0.000893479582229	0.000011738602338
517	minimi	-0.314704	0.034815	-17.304485	-0.000015482570237	0.000805250139797	0.000010836888133
518	massimi	-0.285339	0.032078	-15.650998	0.000010853462432	0.000976002269932	0.000012508824122
518	minimi	-0.314724	0.031208	-16.999631	-0.000006919914588	0.000881006938348	0.000011539689015
519	massimi	-0.285354	0.028149	-15.353932	0.000000372213752	0.001056952976707	0.000011802999453
519	minimi	-0.314739	0.027581	-16.670741	-0.000018372296412	0.000955344758534	0.000010899537502
520	massimi	-0.281807	0.024174	-15.027291	-0.000049599667162	0.001111103291172	0.000012075228829
520	minimi	-0.310898	0.023912	-16.303538	-0.000072785957461	0.001005082382955	0.000011147952425
521	massimi	-0.278176	0.024011	-14.998187	-0.000123372571965	0.001119943300451	0.000012486646723
521	minimi	-0.306965	0.023764	-16.265753	-0.000153101597374	0.00101323982996	0.00001151945168
522	massimi	-0.274372	0.023838	-14.947182	-0.000196946768901	0.001110649991311	0.000012691462198
522	minimi	-0.30284	0.023607	-16.204125	-0.000233170646886	0.001004717104142	0.000011706392413
523	massimi	0.062565	-0.022312	-14.562919	-0.000340471256984	-0.000513499579695	-0.000002378643446
523	minimi	0.057598	-0.025084	-15.840569	-0.000373061444466	-0.000551085155084	-0.000002557644009
524	massimi	0.062581	-0.023072	-14.383771	-0.000347864160981	-0.00058333193099	-0.00000227458616
524	minimi	0.057612	-0.025901	-15.648081	-0.000381145950849	-0.000627317755235	-0.000002443444936
525	massimi	0.062593	-0.023817	-14.184146	-0.000338744140561	-0.000652224748947	-0.000002332327141
525	minimi	0.057623	-0.026701	-15.433235	-0.000371204095777	-0.000702539977053	-0.000002505647565
526	massimi	0.063416	-0.02455	-14.067171	-0.000292339752262	-0.000698545246639	-0.000002266322731
526	minimi	0.058388	-0.027488	-15.309072	-0.000320539716098	-0.00075311531097	-0.00000243329045
527	massimi	0.064215	-0.024517	-14.14999	-0.000223649238597	-0.000706833080387	-0.000002279963266
527	minimi	0.059132	-0.027453	-15.399934	-0.000245532230358	-0.000762173840732	-0.00000244933957
528	massimi	0.064974	-0.024485	-14.212392	-0.000154598508211	-0.000699207422414	-0.000002147614178
528	minimi	0.05984	-0.027418	-15.468503	-0.000170129282439	-0.000753842277427	-0.000002304378944
529	massimi	0.065717	-0.023778	-14.474836	-0.000108039419157	-0.000652836549644	-0.000002118659706
529	minimi	0.060532	-0.02666	-15.752368	-0.000119295065289	-0.000703211639477	-0.000002273615497
530	massimi	0.065732	-0.023072	-14.6745	-0.000098546673918	-0.00058333193099	-0.000002282322067
530	minimi	0.060545	-0.025901	-15.967256	-0.000108944016085	-0.000627317755235	-0.000002451845741
531	massimi	0.065746	-0.02235	-14.853609	-0.000106312302733	-0.000512887778997	-0.000002164976011
531	minimi	0.060557	-0.025126	-16.159702	-0.000117437716599	-0.00055041349266	-0.000002325611941

532	massimi	0.064991	-0.021615	-14.970584	-0.000153002782312	-0.000466113408812	-0.000002230980422
532	minimi	0.059855	-0.024336	-16.283865	-0.000168413231705	-0.000499348931792	-0.000002397969057
533	massimi	0.064215	-0.021584	-14.908281	-0.000223649238597	-0.000457515593324	-0.000002276944961
533	minimi	0.059132	-0.024302	-16.215403	-0.000245532230358	-0.000489971905968	-0.000002445951106
534	massimi	0.063399	-0.02155	-14.825362	-0.00029393547816	-0.000466775584586	-0.000002349688974
534	minimi	0.058373	-0.024266	-16.124434	-0.000322255766832	-0.00050007589825	-0.000002526880563
535	massimi	-0.020465	0.006201	-15.189519	-0.000272619998643	-0.000362426472635	-0.000024009988082
535	minimi	-0.020865	0.001957	-16.547655	-0.000276865444265	-0.000399835876908	-0.00002645127765
536	massimi	-0.020454	-0.002424	-15.058875	-0.000281427868787	-0.000435386883375	-0.000024331329097
536	minimi	-0.020855	-0.005873	-16.403663	-0.000284916755249	-0.000479528857534	-0.000026806220105
537	massimi	-0.020458	-0.011048	-14.906811	-0.000271200220089	-0.000507646045871	-0.000023998198937
537	minimi	-0.020863	-0.013699	-16.236284	-0.000275576360303	-0.000558449493421	-0.000026446410946
538	massimi	-0.012229	-0.019682	-14.8156	-0.000218187950951	-0.000556132191577	-0.000023997336052
538	minimi	-0.012624	-0.021533	-16.125687	-0.000227024800682	-0.000611382446256	-0.000026447359182
539	massimi	-0.003605	-0.019675	-14.876583	-0.000139458588308	-0.00056482368684	-0.000024331399393
539	minimi	-0.004798	-0.021527	-16.182629	-0.000154923385474	-0.000620823284935	-0.000026806142856
540	massimi	0.005021	-0.019686	-14.916195	-0.000060504609137	-0.000556590885349	-0.000024006967803
540	minimi	0.003031	-0.021538	-16.216241	-0.000082572445634	-0.000611795352194	-0.000026454596677
541	massimi	0.013659	-0.011051	-15.108174	-0.000007395874887	-0.000508069844476	-0.000024015535444
541	minimi	0.010872	-0.013702	-16.417546	-0.000033913723724	-0.000558830987505	-0.000026459437951
542	massimi	0.013651	-0.002424	-15.260264	0.00000306418988	-0.000435386883375	-0.000024330701423
542	minimi	0.010867	-0.005873	-16.584949	-0.0000243151397	-0.000479528857534	-0.000026805748457
543	massimi	0.013662	0.006204	-15.390883	-0.000005976096333	-0.000362002674031	-0.00002402732459
543	minimi	0.010878	0.00196	-16.728917	-0.000032624639761	-0.000399454382824	-0.000026464304656
544	massimi	0.005023	0.014842	-15.482094	-0.000059192840354	-0.000313180471035	-0.000024028187475
544	minimi	0.003035	0.009804	-16.839514	-0.000081381428842	-0.0003461583225	-0.000026463356419
545	massimi	-0.003605	0.014831	-15.442555	-0.000139458588308	-0.00030422207129	-0.000024330631127
545	minimi	-0.004798	0.009793	-16.805983	-0.000154923385475	-0.000336331226268	-0.000026805825706
546	massimi	-0.012231	0.014838	-15.381498	-0.000219499719734	-0.000313639164807	-0.000024018555723
546	minimi	-0.012628	0.009799	-16.74896	-0.000228215817475	-0.000346571228438	-0.000026456118924
547	massimi	0.080801	-0.082776	-11.325772	-0.000559409480416	-0.000719878734489	-0.000013357905077
547	minimi	0.073561	-0.092361	-12.28439	-0.000612159967486	-0.000787753441973	-0.000014758179799
548	massimi	0.080861	-0.087108	-11.082448	-0.000564411675065	-0.000773814113526	-0.000013290406198
548	minimi	0.073615	-0.097147	-12.01817	-0.000617602094746	-0.00084651158153	-0.000014683574791
549	massimi	0.080908	-0.091387	-10.823314	-0.000557118388512	-0.00082650316244	-0.000013183034322
549	minimi	0.073656	-0.101873	-11.734728	-0.000609653634509	-0.000903906302063	-0.000014563155984
550	massimi	0.085674	-0.095635	-10.724119	-0.000521319903172	-0.000862230508363	-0.000013047052934
550	minimi	0.077971	-0.106566	-11.62641	-0.00057065487455	-0.000942827379805	-0.000014412569346
551	massimi	0.090398	-0.095587	-10.884201	-0.000468802408738	-0.000868818098809	-0.000013301484038
551	minimi	0.082247	-0.106514	-11.80169	-0.000513447486622	-0.000950005239991	-0.00001469584246
552	massimi	0.095065	-0.095545	-11.028525	-0.00041552984593	-0.000863618528282	-0.000012881941728
552	minimi	0.086471	-0.106467	-11.959805	-0.00045541312351	-0.000944347583894	-0.000014231095012
553	massimi	0.09972	-0.091333	-11.432645	-0.000379407084564	-0.000827785588628	-0.000012885845221
553	minimi	0.090685	-0.101815	-12.402086	-0.00041605920601	-0.0009053108565	-0.000014236514349
554	massimi	0.09977	-0.087108	-11.691858	-0.000371332510788	-0.000773814113526	-0.000013301166036
554	minimi	0.09073	-0.097147	-12.685616	-0.00040725505486	-0.00084651158153	-0.000014695400969
555	massimi	0.099827	-0.08283	-11.935103	-0.00037711599266	-0.000718596308301	-0.000013060715976
555	minimi	0.09078	-0.092419	-12.951749	-0.000413552873033	-0.000786348887536	-0.000014431538164
556	massimi	0.095128	-0.078511	-12.034298	-0.000413413049033	-0.000682228112511	-0.000013196697363
556	minimi	0.086528	-0.087647	-13.060067	-0.000453097460023	-0.00074672661833	-0.000014582124802
557	massimi	0.090398	-0.078472	-11.890105	-0.000468802408738	-0.000675738934531	-0.000013290088196
557	minimi	0.082247	-0.087604	-12.902096	-0.000513447486622	-0.000739658200106	-0.0000146831333
558	massimi	0.085611	-0.07842	-11.729892	-0.000523436700069	-0.000683616132429	-0.000013361808569
558	minimi	0.077914	-0.087548	-12.726672	-0.000572970538037	-0.000748246822419	-0.000014763599136
559	massimi	0.176857	-0.06111	-13.900046	-0.000534646044991	-0.000395836874331	-0.00001891067031
559	minimi	0.158178	-0.068008	-15.165597	-0.000585625014742	-0.000438134763593	-0.000021062215207
560	massimi	0.176909	-0.06723	-13.759641	-0.000541751746662	-0.00046282470416	-0.000018769713838
560	minimi	0.158224	-0.074825	-15.010328	-0.000593399038963	-0.000511493160452	-0.000020903981645
561	massimi	0.176939	-0.073308	-13.599521	-0.00053327572373	-0.0005290670935	-0.000018775706339
561	minimi	0.158251	-0.081594	-14.833471	-0.000584110596979	-0.000584027729828	-0.000020912004403
562	massimi	0.183779	-0.079355	-13.586362	-0.000488580561732	-0.000573752817928	-0.000018584851387
562	minimi	0.164392	-0.088329	-14.817589	-0.000535167861177	-0.000632959076203	-0.000020698930159
563	massimi	0.190545	-0.079257	-13.733341	-0.000422360931326	-0.000582135221086	-0.000018785262
563	minimi	0.170467	-0.088219	-14.978589	-0.000462660757689	-0.000642134536173	-0.000020921339921
564	massimi	0.197192	-0.079168	-13.860612	-0.000355461032698	-0.000575003334937	-0.000018242637984
564	minimi	0.176435	-0.08812	-15.118007	-0.000389408477771	-0.000634328912055	-0.000020316410708
565	massimi	0.203796	-0.073197	-14.148489	-0.000310473718779	-0.000530222477323	-0.000018159745159
565	minimi	0.182366	-0.08147	-15.434819	-0.000340145714193	-0.000585293355305	-0.000020223495037
566	massimi	0.203834	-0.06723	-14.308681	-0.00030129380612	-0.00046282470416	-0.000018792014935

566	minimi	0.1824	-0.074825	-15.611755	-0.000330086220415	-0.000511493160452	-0.000020928909376
567	massimi	0.203878	-0.061221	-14.449013	-0.000309103397517	-0.000394681490508	-0.000018294709129
567	minimi	0.18244	-0.068133	-15.766945	-0.000338631296431	-0.000436869138116	-0.000020373705841
568	massimi	0.19724	-0.055166	-14.462173	-0.00035419495874	-0.000349580491716	-0.000018485564082
568	minimi	0.176479	-0.06139	-15.782826	-0.000388009269465	-0.000387479775654	-0.000020586780084
569	massimi	0.190545	-0.055081	-14.334981	-0.000422360931326	-0.000341677280545	-0.000018776466773
569	minimi	0.170467	-0.061294	-15.643494	-0.000462660757689	-0.000378821717625	-0.0000209115511
570	massimi	0.18373	-0.05498	-14.187923	-0.00048984663569	-0.000350831008724	-0.000018827777484
570	minimi	0.164348	-0.061181	-15.482408	-0.000536567069483	-0.000388849611507	-0.000020969299535
571	massimi	0.263549	-0.437698	-3.863779	-0.002032001486564	-0.000620661283518	0.00003206369624
571	minimi	0.237808	-0.473884	-4.145327	-0.002188789611381	-0.000676341121074	0.000028505026279
572	massimi	0.263796	-0.428339	-3.658957	-0.002032030482887	-0.000640237264013	0.000033419736934
572	minimi	0.238037	-0.463358	-3.922146	-0.002188825670382	-0.000697569364605	0.00002973390092
573	massimi	0.264056	-0.418713	-3.448056	-0.002030105886075	-0.000658782057594	0.000032993890577
573	minimi	0.238277	-0.452544	-3.692377	-0.002186724263262	-0.00071767408028	0.000029364919852
574	massimi	0.253341	-0.408923	-3.889299	-0.002016308947906	-0.000672895440614	0.000033560662357
574	minimi	0.228742	-0.44155	-4.165008	-0.002171773322151	-0.000732963977637	0.000029884777603
575	massimi	0.242517	-0.408822	-4.540806	-0.001997001039666	-0.00067795913963	0.000033373564386
575	minimi	0.219108	-0.441438	-4.866728	-0.002150851205027	-0.000738427797809	0.000029691550263
576	massimi	0.231541	-0.408683	-5.186004	-0.001974476696746	-0.000678808117617	0.000034047516227
576	minimi	0.209336	-0.441284	-5.561613	-0.002126464857153	-0.000739332170845	0.000030324637336
577	massimi	0.220527	-0.418571	-6.043678	-0.001959298409954	-0.000664244927203	0.000033870194902
577	minimi	0.199531	-0.452386	-6.487967	-0.002110026147487	-0.000723557812661	0.000030156637881
578	massimi	0.220797	-0.428339	-6.254918	-0.001954045691597	-0.000640237264013	0.000033388010019
578	minimi	0.19978	-0.463358	-6.718101	-0.00210434021833	-0.000697569364605	0.000029705236482
579	massimi	0.221035	-0.43784	-6.459401	-0.001957402809465	-0.000615198413909	0.000032940000565
579	minimi	0.200001	-0.474042	-6.940918	-0.002107960799369	-0.000670457388694	0.000029296744308
580	massimi	0.231843	-0.4472	-6.018159	-0.001972725304222	-0.000600192364004	0.000032373228785
580	minimi	0.209615	-0.484572	-6.468286	-0.002124556630564	-0.000654200513744	0.000028776886557
581	massimi	0.242517	-0.447079	-5.373069	-0.001997001039666	-0.00059997434834	0.000033434182568
581	minimi	0.219108	-0.484437	-5.773519	-0.002150851205027	-0.000653942345757	0.000029747587139
582	massimi	0.253039	-0.44696	-4.721453	-0.00201806034043	-0.000606105041007	0.000031886374915
582	minimi	0.228463	-0.484306	-5.071681	-0.00217368154874	-0.000660568706952	0.000028337026824
583	massimi	0.271497	-0.111496	-9.939072	-0.000634109554973	-0.000791212220103	-0.000000055110778
583	minimi	0.245121	-0.121417	-10.785758	-0.000685261526071	-0.000866406330176	-0.000000150177458
584	massimi	0.271569	-0.111448	-9.673803	-0.000638124667104	-0.000838315942182	0.000000522197635
584	minimi	0.245187	-0.121393	-10.495316	-0.000689637636254	-0.000917765788714	0.000000486098348
585	massimi	0.27163	-0.11133	-9.394732	-0.000631627487466	-0.000884069445399	0.00000016862136
585	minimi	0.245243	-0.121292	-10.189828	-0.000682544225196	-0.000967647063889	0.000000093518824
586	massimi	0.27162	-0.111153	-9.302525	-0.000600386548692	-0.000915244256575	0.00000045489321
586	minimi	0.245207	-0.121127	-10.08609	-0.000648486620602	-0.00100163027093	0.000000408997459
587	massimi	0.271514	-0.111021	-9.489523	-0.000554792513827	-0.000921085456864	0.000000498876254
587	minimi	0.245084	-0.120981	-10.28799	-0.000598784756983	-0.001007985665483	0.000000460397611
588	massimi	0.271239	-0.110884	-9.662767	-0.000508304912136	-0.000916886874117	0.00000095406387
588	minimi	0.244808	-0.120829	-10.474897	-0.000548118471204	-0.001003403139742	0.00000094690068
589	massimi	0.270894	-0.111117	-10.115829	-0.00047668021699	-0.000885587100674	0.000001074601818
589	minimi	0.244469	-0.121116	-10.968104	-0.000513646680296	-0.000969285061559	0.000001054201819
590	massimi	0.270966	-0.111448	-10.394994	-0.000469258442481	-0.000838315942182	0.000000490134874
590	minimi	0.244536	-0.121393	-11.273694	-0.000505555358666	-0.000917765788714	0.000000450577884
591	massimi	0.271027	-0.111656	-10.660169	-0.000474198149482	-0.000789694564828	0.000000830905536
591	minimi	0.244591	-0.121594	-11.564034	-0.000510929379421	-0.000864768332506	0.000000830469681
592	massimi	0.271318	-0.111805	-10.752376	-0.000506011668121	-0.000757814918592	0.000000544197831
592	minimi	0.244881	-0.12173	-11.667772	-0.000545607889219	-0.000830015425155	0.0000005154269
593	massimi	0.271514	-0.111672	-10.579274	-0.000554792513827	-0.000752219232241	0.000000513456256
593	minimi	0.245084	-0.121584	-11.481021	-0.000598784756983	-0.000823903387895	0.000000476278621
594	massimi	0.271541	-0.111536	-10.392134	-0.000602679792707	-0.000759457536133	0.000000052190361
594	minimi	0.245134	-0.121433	-11.278965	-0.000650997202587	-0.000831788293967	-0.00000002963951
595	massimi	0.293693	-0.087141	-4.111935	-0.000645224199842	-0.001813048215404	0.000026541004732
595	minimi	0.271559	-0.095155	-4.428682	-0.000704424606712	-0.001960490102899	0.000024447822826
596	massimi	0.293737	-0.079101	-3.520101	-0.000644014205126	-0.001830286560891	0.000027504537701
596	minimi	0.271599	-0.086427	-3.788689	-0.000703131995091	-0.001979298224007	0.000025336797508
597	massimi	0.293788	-0.071012	-2.923481	-0.000639805127422	-0.001844576987448	0.000026714507066
597	minimi	0.271646	-0.077645	-3.143471	-0.000698564343818	-0.001994918423165	0.000024606619054
598	massimi	0.285083	-0.062863	-2.528419	-0.000629129026068	-0.001854969763107	0.000027005750292
598	minimi	0.263628	-0.068798	-2.718322	-0.000686904300325	-0.002006273563428	0.000024875309758
599	massimi	0.276297	-0.062733	-2.730547	-0.000615521846498	-0.001856368277424	0.000027480811322
599	minimi	0.255534	-0.068657	-2.939004	-0.00067201938292	-0.002007816604253	0.000025314908389
600	massimi	0.267337	-0.062583	-2.928094	-0.000600923287467	-0.001856792186728	0.000027560417048
600	minimi	0.247281	-0.068495	-3.154682	-0.000656052089288	-0.002008263263719	0.00002538829659

601	massimi	0.258292	-0.070846	-3.723511	-0.000589821422561	-0.001846260770041	0.000027712870039
601	minimi	0.238949	-0.077465	-4.016935	-0.000643927202247	-0.001996756756842	0.000025529960958
602	massimi	0.258354	-0.079101	-4.320236	-0.000584586540925	-0.001830286560891	0.000027468391609
602	minimi	0.239005	-0.086427	-4.662267	-0.000638239590522	-0.001979298224007	0.00002530336758
603	massimi	0.258387	-0.087308	-4.911965	-0.000584402350141	-0.001811364432811	0.000027539367704
603	minimi	0.239035	-0.095335	-5.302146	-0.000638066939354	-0.001958651769222	0.00002537116473
604	massimi	0.267393	-0.095473	-5.307027	-0.000595916471431	-0.001799566985826	0.000027248124478
604	minimi	0.247333	-0.104198	-5.727294	-0.000650637646382	-0.001945776158963	0.000025102474026
605	massimi	0.276297	-0.095326	-5.10979	-0.000615521846498	-0.001796940613224	0.000027492117988
605	minimi	0.255534	-0.10404	-5.511952	-0.00067201938292	-0.001942924199684	0.000025325256699
606	massimi	0.285027	-0.095193	-4.907352	-0.000634135842103	-0.001801389409448	0.000026693457722
606	minimi	0.263577	-0.103895	-5.290934	-0.000692318743232	-0.001947765859255	0.000024589487194
607	massimi	0.030539	0.027167	-10.314397	0.000007540188536	0.000156872469481	0.000004634938218
607	minimi	0.02657	0.025113	-11.424663	0.000006847342605	0.000138886799307	0.000004349051257
608	massimi	0.030523	0.028686	-10.350878	0.000000764787324	0.000102791308282	0.000004719355017
608	minimi	0.026555	0.026537	-11.466	0.000000758951388	0.000090354346252	0.000004424694004
609	massimi	0.030508	0.030186	-10.373066	0.000007235846279	0.000048544588067	0.000004577351828
609	minimi	0.026541	0.027945	-11.491408	0.000006579823433	0.000041676365555	0.000004295777653
610	massimi	0.029011	0.031682	-10.373931	0.000043380390856	0.000012398839696	0.000004576408873
610	minimi	0.025137	0.029348	-11.493087	0.000039014674285	0.000009240894253	0.000004293523317
611	massimi	0.027511	0.031696	-10.352607	0.000097630014052	0.000005910003279	0.000004719431836
611	minimi	0.02373	0.02936	-11.469354	0.000087694151214	0.000003419703333	0.000004424877656
612	massimi	0.025994	0.031712	-10.316989	0.000151722391179	0.000012687900506	0.00000463163768
612	minimi	0.022307	0.029374	-11.429693	0.000136232385098	0.000009500537178	0.000004341160608
613	massimi	0.024463	0.030204	-10.259085	0.00018779940395	0.000048811658552	0.000004676759977
613	minimi	0.020874	0.02796	-11.364513	0.000168606576895	0.000041916256123	0.000004381521584
614	massimi	0.02445	0.028686	-10.236882	0.000194113592589	0.000102791308282	0.000004715755909
614	minimi	0.020861	0.026537	-11.339087	0.000174275465462	0.000090354346252	0.000004421589614
615	massimi	0.024432	0.02715	-10.200415	0.000187495061693	0.000156605398995	0.000004734346368
615	minimi	0.020845	0.025098	-11.297768	0.000168339057723	0.000138646908739	0.000004434795188
616	massimi	0.025975	0.025606	-10.19955	0.000151441201784	0.000192658055109	0.000004735289322
616	minimi	0.02229	0.023651	-11.296089	0.000135985217469	0.000171000128543	0.000004437049524
617	massimi	0.027511	0.025623	-10.235153	0.000097630014052	0.00019926464448	0.000004715679091
617	minimi	0.02373	0.023666	-11.335733	0.000087694151214	0.000176930381471	0.000004421405963
618	massimi	0.02903	0.025636	-10.256492	0.00004366158025	0.000192947111592	0.000004680605015
618	minimi	0.025154	0.023677	-11.359483	0.000039261841914	0.000171259771468	0.000004389412233
619	massimi	-0.013593	0.022039	-15.523136	-0.000065499423884	0.000411108923855	0.000003092747593
619	minimi	-0.016405	0.019795	-17.544291	-0.000073494033708	0.000359440516764	0.000002923828525
620	massimi	-0.013606	0.023042	-15.626586	-0.000075054803641	0.000326158264922	0.000003075384647
620	minimi	-0.016419	0.020744	-17.662722	-0.000084348964947	0.000284623673181	0.000002912103053
621	massimi	-0.013616	0.024031	-15.70795	-0.00006634213143	0.000240682284904	0.000003046489914
621	minimi	-0.01643	0.02168	-17.756074	-0.000074459715965	0.000209348405474	0.000002882184685
622	massimi	-0.014559	0.025012	-15.781262	-0.000016203364015	0.000183690672659	0.000003013201633
622	minimi	-0.017428	0.022609	-17.840001	-0.00001752829362	0.000159157061055	0.000002853087329
623	massimi	-0.015495	0.025002	-15.773104	0.000068092835846	0.00017320434571	0.000003078096505
623	minimi	-0.018416	0.0226	-17.830455	0.000059198694449	0.000149922830074	0.000002914473494
624	massimi	-0.01642	0.024992	-15.742822	0.00015360429278	0.000183892280438	0.000002976231633
624	minimi	-0.019393	0.022592	-17.795787	0.000134505405574	0.000159332335255	0.000002821981682
625	massimi	-0.017345	0.024019	-15.631006	0.000210488614526	0.000240868555354	0.000002979946393
625	minimi	-0.020367	0.02167	-17.66757	0.000184603224571	0.000209510345675	0.000002826196606
626	massimi	-0.017356	0.023042	-15.549632	0.000220264382729	0.000326158264922	0.000003077793879
626	minimi	-0.020379	0.020744	-17.574206	0.00019321723862	0.000284623673181	0.000002914130122
627	massimi	-0.017368	0.022051	-15.446192	0.000209522932269	0.000410922653405	0.000003026204071
627	minimi	-0.020393	0.019805	-17.455787	0.000183760517024	0.000359278576563	0.000002867840445
628	massimi	-0.016434	0.02105	-15.37288	0.000152712074881	0.000467673320892	0.000003059492353
628	minimi	-0.019408	0.018857	-17.371859	0.000133726807074	0.00040925970951	0.000002896937802
629	massimi	-0.015495	0.021041	-15.403113	0.000068092835845	0.000477817693385	0.000003075082021
629	minimi	-0.018416	0.01885	-17.406472	0.000059198694449	0.000418194872334	0.000002911759681
630	massimi	-0.014546	0.02103	-15.411319	-0.000015424765515	0.000467874928671	0.000003096462353
630	minimi	-0.017413	0.01884	-17.416074	-0.000016636075721	0.000409434983709	0.000002928043449
631	massimi	-0.023803	0.008088	-15.791069	-0.000117602301428	0.000569528265237	0.00000386836829
631	minimi	-0.028605	0.00727	-17.852231	-0.000130836182902	0.000497452948384	0.000003639754256
632	massimi	-0.023809	0.009341	-15.939074	-0.00017527371286	0.000482805409383	0.000003851131319
632	minimi	-0.028612	0.008449	-18.021806	-0.00014211678812	0.000421089863734	0.000003629780096
633	massimi	-0.023812	0.010588	-16.064493	-0.000118849055087	0.00039530493147	0.00000384961589
633	minimi	-0.028615	0.009624	-18.16573	-0.000132265662599	0.000344048558084	0.000003622791974
634	massimi	-0.024996	0.011831	-16.19828	-0.0000675602987	0.000336947260505	0.000003817127767
634	minimi	-0.029874	0.010794	-18.318275	-0.000074017392512	0.000292663854056	0.00000359499454
635	massimi	-0.02617	0.011813	-16.206455	0.000013746908349	0.000326010888901	0.000003853777992

635	minimi	-0.031121	0.010779	-18.326677	0.000009712387082	0.000283033746567	0.000003632044638
636	massimi	-0.027328	0.011797	-16.191974	0.000101489067993	0.000336987962051	0.000003754653054
636	minimi	-0.032348	0.010766	-18.309349	0.000086969429779	0.000292692610279	0.000003542457412
637	massimi	-0.02848	0.010568	-16.05187	0.000159727829185	0.000395342536642	0.000003737165594
637	minimi	-0.033568	0.009607	-18.147862	0.000138251467996	0.000344075126675	0.000003528228666
638	massimi	-0.028484	0.009341	-15.926448	0.000169556044662	0.000482805409383	0.000003855202623
638	minimi	-0.033572	0.008449	-18.003936	0.000146913597922	0.000421089863734	0.000003633203795
639	massimi	-0.028489	0.008108	-15.778445	0.000158298349488	0.000569490660064	0.000003755917995
639	minimi	-0.033578	0.007287	-17.834364	0.000137004714337	0.000497426379793	0.000003545190948
640	massimi	-0.027334	0.006868	-15.644658	0.000100168336083	0.000627511272592	0.000003788406118
640	minimi	-0.032354	0.006117	-17.681818	0.000085817523008	0.00054851762348	0.000003572988382
641	massimi	-0.02617	0.006853	-15.659067	0.000013746908349	0.000637683721682	0.00000385255595
641	minimi	-0.031121	0.006104	-17.699064	0.000009712387082	0.000557474715775	0.000003630939253
642	massimi	-0.024991	0.006834	-15.650965	-0.000066408391929	0.000627551974138	0.000003850880831
642	minimi	-0.029868	0.006089	-17.690744	-0.000172696660602	0.000548546379703	0.00000375525551
643	massimi	-0.044366	-0.001521	-15.820409	-0.000127087502318	0.000581700068534	0.000006975627772
643	minimi	-0.051041	-0.001815	-17.886265	-0.000142571698239	0.000507654832407	0.000006442369243
644	massimi	-0.04437	0.000566	-15.971698	-0.000137043157509	0.000494775585976	0.000006962248221
644	minimi	-0.051044	0.000445	-18.059757	-0.000153888024706	0.00043111934608	0.000006435109728
645	massimi	-0.044367	0.002704	-16.100346	-0.000128363951049	0.000407054201803	0.000006974734733
645	minimi	-0.051041	0.002654	-18.207535	-0.000144036618973	0.000353889484944	0.000006441232096
646	massimi	-0.046471	0.004961	-16.240383	-0.000076948263409	0.000348542113646	0.000006929751885
646	minimi	-0.053319	0.004739	-18.367678	-0.000085639379625	0.000302373367332	0.000006401788651
647	massimi	-0.048558	0.004928	-16.25157	0.000002358965318	0.000337551418873	0.000006965912787
647	minimi	-0.055578	0.00471	-18.379811	0.000000523787111	0.000292697905303	0.000006438323023
648	massimi	-0.050614	0.0049	-16.240043	0.000090353510836	0.000348549098019	0.000006818178378
648	minimi	-0.057802	0.004685	-18.366146	0.000077994994003	0.000302374918149	0.00000630430892
649	massimi	-0.052658	0.002668	-16.099666	0.00014874911846	0.000407060654839	0.000006773909902
649	minimi	-0.060012	0.002622	-18.204469	0.000129410319334	0.000353890917783	0.000006265775116
650	massimi	-0.052657	0.000566	-15.971017	0.000158596592837	0.000494775585976	0.000006969519156
650	minimi	-0.060011	0.000445	-18.056691	0.000138088652871	0.00043111934608	0.000006441462212
651	massimi	-0.052659	-0.00149	-15.819728	0.000147284197726	0.000581693615498	0.000006774802941
651	minimi	-0.060013	-0.001779	-17.883198	0.000128133870603	0.000507653399568	0.000006266912263
652	massimi	-0.050614	-0.003553	-15.679691	0.000089000034069	0.000639862930346	0.000006819785789
652	minimi	-0.057803	-0.004011	-17.723056	0.000076815651215	0.000558871188984	0.000006306355708
653	massimi	-0.048558	-0.003578	-15.691145	0.000002358965319	0.000650036036417	0.00000696585459
653	minimi	-0.055578	-0.004039	-17.736638	0.000000523787111	0.000567829715683	0.000006438248918
654	massimi	-0.046471	-0.003607	-15.680032	-0.000075768920621	0.000639869914719	0.000006931359296
654	minimi	-0.053319	-0.004072	-17.724588	-0.000084285902858	0.000558872739802	0.000006403835439
655	massimi	-0.079189	-0.014728	-15.75713	-0.000145436291448	0.000477325497062	0.000009642073107
655	minimi	-0.090259	-0.016351	-17.810543	-0.000162400524376	0.000413272890337	0.000008833273075
656	massimi	-0.079187	-0.01187	-15.877832	-0.000155187551501	0.000390826588058	0.000009600300787
656	minimi	-0.090257	-0.013232	-17.950215	-0.000173487562615	0.000337095557397	0.000008801381709
657	massimi	-0.079176	-0.009004	-15.976016	-0.000146434356602	0.000303698201069	0.000009668636679
657	minimi	-0.090245	-0.010105	-18.064317	-0.000163557675191	0.000260375287413	0.000008857101478
658	massimi	-0.082068	-0.006141	-16.091625	-0.000095308398231	0.000245545905728	0.000009601755465
658	minimi	-0.093402	-0.006981	-18.197321	-0.000105500765737	0.000209166417777	0.000008798436942
659	massimi	-0.084932	-0.00619	-16.108884	-0.0000181423533	0.000234669799568	0.000009605749322
659	minimi	-0.096528	-0.007037	-18.21603	-0.000018388185663	0.000199590751184	0.000008806160866
660	massimi	-0.087744	-0.006234	-16.103565	0.000069245279799	0.000245492190245	0.000009407974844
660	minimi	-0.099594	-0.007086	-18.209101	0.000058561643514	0.000209111974439	0.000008627934906
661	massimi	-0.090531	-0.00906	-15.999916	0.000127314738528	0.000303648571996	0.000009319844553
661	minimi	-0.102632	-0.010168	-18.087898	0.000109700321205	0.000260324985856	0.000008550209244
662	massimi	-0.090524	-0.01187	-15.901735	0.000137274861268	0.000390826588058	0.000009612928932
662	minimi	-0.102624	-0.013232	-17.973799	0.000118484161114	0.000337095557397	0.000008812492853
663	massimi	-0.090518	-0.014672	-15.781031	0.000126157587714	0.000477375126135	0.000009293280981
663	minimi	-0.102617	-0.016288	-17.834124	0.000108702256051	0.000413323191893	0.000008526380842
664	massimi	-0.087736	-0.017483	-15.665421	0.000068176159329	0.000535261168633	0.000009360162195
664	minimi	-0.099585	-0.019353	-17.70112	0.00005763950625	0.000464303030343	0.000008585045378
665	massimi	-0.084932	-0.017527	-15.670683	-0.0000181423533	0.000545432223451	0.000009607480397
665	minimi	-0.096528	-0.019403	-17.707983	-0.000018388185663	0.000473262463799	0.000008807713697
666	massimi	-0.082076	-0.017577	-15.653482	-0.000094386260967	0.00053520745315	0.000009553942816
666	minimi	-0.093411	-0.019459	-17.68934	-0.000104431645267	0.000464248587092	0.000008755547414
667	massimi	-0.027562	0.061261	-8.059076	0.000066836853328	0.000110805584619	-0.00000200826922
667	minimi	-0.031405	0.055896	-8.542144	0.000055719217702	0.000106519204235	-0.000002386283544
668	massimi	-0.026324	0.059433	-8.01592	0.000184758776076	-0.000037327461794	-0.000002470297259
668	minimi	-0.029937	0.054345	-8.490198	0.000166247306282	-0.000042646365788	-0.000002898608178
669	massimi	-0.026324	0.062829	-7.881344	0.000184758776076	0.00026282134648	-0.000001836672159
669	minimi	-0.029937	0.057211	-8.350206	0.000166247306282	0.00024898523894	-0.000002204173714

670	massimi	-0.027508	0.062824	-7.955284	0.000118807922366	0.000220744496502	-0.000002128963631
670	minimi	-0.031345	0.057208	-8.43317	0.000104409037731	0.000209550040713	-0.000002537301067
671	massimi	-0.025036	0.061261	-7.87418	0.000302718807183	0.000110805584619	-0.000002300251032
671	minimi	-0.028412	0.055896	-8.33666	0.000276809685042	0.000106519204235	-0.000002718335734
672	massimi	-0.024999	0.059445	-7.905296	0.000253258178114	0.000005309603043	-0.000002502956212
672	minimi	-0.028372	0.054356	-8.368097	0.000230428300297	0.00000283988002	-0.000002950473376
673	massimi	-0.025097	0.062867	-7.771427	0.000252453043106	0.000219514740812	-0.000002208629726
673	minimi	-0.02848	0.057246	-8.22884	0.000229654310966	0.000208443497493	-0.000002627900208
674	massimi	-0.027607	0.059488	-8.089153	0.000118002787358	0.000004203059824	-0.000002423290117
674	minimi	-0.031453	0.054393	-8.572426	0.000103635048401	0.000001610124329	-0.000002859874235
675	massimi	0.065917	0.123828	-8.571547	0.000077243494963	0.000108225467042	0.000006395030551
675	minimi	0.057309	0.112742	-9.113217	0.000062048383698	0.000085204585036	0.000005688267381
676	massimi	0.062025	0.128049	-8.505734	0.000203930170625	-0.000056563073437	0.000006034744814
676	minimi	0.05385	0.116486	-9.047553	0.000180468086558	-0.000068725852708	0.000005345753144
677	massimi	0.062025	0.119082	-8.398086	0.000203930170625	0.000271611221528	0.000007438425477
677	minimi	0.05385	0.10852	-8.91082	0.000180468086558	0.000238030626544	0.000006623764509
678	massimi	0.066008	0.1192	-8.47851	0.000133063673987	0.000226318251355	0.000007477004978
678	minimi	0.057393	0.108624	-9.002922	0.000114120709511	0.000195502893591	0.000006651636779
679	massimi	0.058015	0.123828	-8.370836	0.000330658943392	0.000108225467042	0.000007082993931
679	minimi	0.050289	0.112742	-8.886411	0.000298925043269	0.000085204585036	0.000006285562719
680	massimi	0.058159	0.128122	-8.386008	0.000277507399824	-0.000007783815744	0.000007012683421
680	minimi	0.050419	0.116551	-8.913404	0.000249137526695	-0.000023320844255	0.000006220952028
681	massimi	0.05794	0.119111	-8.278925	0.000276721011328	0.000224960884671	0.000007664712
681	minimi	0.05022	0.108548	-8.77739	0.000248518412661	0.000194301691397	0.000006814605525
682	massimi	0.06579	0.128033	-8.585592	0.000132277285491	-0.000009141182428	0.0000068249764
682	minimi	0.057194	0.116474	-9.138936	0.000113501595476	-0.000024522046448	0.000006057983282
683	massimi	-0.070915	0.034502	-10.228984	-0.00005981659558	0.000187955782652	0.000001836816708
683	minimi	-0.083849	0.0313	-10.972098	-0.000060848053865	0.000179302324621	0.000001799561999
684	massimi	-0.071805	0.035338	-10.271141	0.000095868740293	-0.000009885335298	0.000001223433275
684	minimi	-0.084731	0.032166	-11.012005	0.00008536788438	-0.000016223735231	0.000001170866747
685	massimi	-0.071805	0.033519	-10.04461	0.000095868740293	0.000389699142259	0.00000157824157
685	minimi	-0.084731	0.030301	-10.774541	0.00008536788438	0.000366165986652	0.000001561969313
686	massimi	-0.070902	0.033477	-10.068319	0.00000767134327	0.000333687406796	0.000001697586395
686	minimi	-0.083835	0.030268	-10.802172	0.000003663420818	0.000314315572505	0.000001688559085
687	massimi	-0.072558	0.034502	-10.13404	0.000252605308344	0.000187955782652	0.000001003121661
687	minimi	-0.085452	0.0313	-10.865475	0.000230569972325	0.000179302324621	0.00000089700338
688	massimi	-0.072535	0.035287	-10.19925	0.000186336493467	0.00004606031738	0.000001315468041
688	minimi	-0.085427	0.032123	-10.932364	0.000169180738623	0.000044123353416	0.000001250462846
689	massimi	-0.07259	0.033598	-9.973909	0.000184970770061	0.000333049303798	0.000001480280765
689	minimi	-0.085488	0.03037	-10.696148	0.000167877892932	0.000313747363277	0.000001432134695
690	massimi	-0.070958	0.035408	-10.29366	0.000006305619864	0.000045492108151	0.000001532773671
690	minimi	-0.083896	0.032225	-11.038388	0.00002360575128	0.000043485250418	0.000001506887236
691	massimi	0.043512	0.105105	-12.965784	-0.000048636134089	0.00023786567151	0.000006047201587
691	minimi	0.036011	0.094928	-14.024124	-0.000053534612606	0.000198311221195	0.000005425513698
692	massimi	0.039874	0.109052	-12.985986	0.000155301315942	-0.000027796693589	0.000005670360943
692	minimi	0.032755	0.098457	-14.054821	0.00013403412627	-0.000045894390588	0.000005067109131
693	massimi	0.039874	0.100712	-12.735438	0.000155301315942	0.000500444893231	0.000006861801621
693	minimi	0.032755	0.090996	-13.754299	0.00013403412627	0.000439946382504	0.000006143185146
694	massimi	0.043585	0.100804	-12.779088	0.000040647235853	0.000427590202549	0.000006955225992
694	minimi	0.036077	0.091077	-13.807124	0.000028467216719	0.000372709038705	0.000006228404842
695	massimi	0.036161	0.105105	-12.816715	0.000359270824673	0.00023786567151	0.000006489476136
695	minimi	0.029436	0.094928	-13.851402	0.00032163053368	0.000198311221195	0.000005788819488
696	massimi	0.036284	0.109103	-12.880088	0.000273149245039	0.000050770782808	0.000006522457923
696	minimi	0.029546	0.098501	-13.934315	0.000242306790707	0.000026136101681	0.000005827679021
697	massimi	0.036098	0.100747	-12.630856	0.000271420864161	0.000426556511302	0.000007075898169
697	minimi	0.029379	0.09103	-13.635373	0.000240865820598	0.000371816902652	0.000006327530828
698	massimi	0.0434	0.109046	-13.028319	0.000038918854975	0.000049737091562	0.000006401785746
698	minimi	0.03591	0.098454	-14.106066	0.000027026246611	0.000025243965627	0.000005728553036
699	massimi	0.101625	0.173122	-13.113156	-0.000247647959364	0.000170586507572	0.000022438714159
699	minimi	0.086779	0.158823	-14.109643	-0.00026217413245	0.00014185132222	0.0000204183997
700	massimi	0.094041	0.165352	-13.105362	-0.000117957314915	0.000310587362653	0.000023674482761
700	minimi	0.079883	0.151761	-14.093851	-0.000122172978535	0.000271541819183	0.000021522540485
701	massimi	0.101679	0.16543	-13.051753	-0.000200383589976	0.000259659139167	0.000023770167366
701	minimi	0.086829	0.151829	-14.037671	-0.000211130480982	0.000224334418106	0.000021614572318
702	massimi	0.094041	0.18065	-13.197904	-0.000117957314915	0.000030583546587	0.000022072924168
702	minimi	0.079883	0.165664	-14.205139	-0.000122172978535	0.000012159074092	0.000020053261792
703	massimi	0.086327	0.173122	-13.19011	0.000017829683616	0.000170586507572	0.000023308692771
703	minimi	0.072876	0.158823	-14.189346	0.000011734785727	0.00014185132222	0.000021157402577
704	massimi	0.086422	0.180687	-13.220948	-0.000033347426392	0.000081876084577	0.000023502759051

704	minimi	0.072962	0.165696	-14.228324	-0.00003569348904	0.000059644317171	0.000021347640704
705	massimi	0.086297	0.165362	-13.12857	-0.000033609117916	0.000259846560982	0.000024088163376
705	minimi	0.072848	0.151772	-14.117233	-0.000035911098799	0.000224515372802	0.000021884693863
706	massimi	0.101555	0.18062	-13.144131	-0.000200601199734	0.000082063506392	0.000023184763041
706	minimi	0.086714	0.165638	-14.148762	-0.000211392172507	0.000059825271866	0.000021077519159
707	massimi	-0.078142	0.008979	-10.46685	-0.000131587898778	0.000300783072706	0.000002137882852
707	minimi	-0.092108	0.008224	-11.242829	-0.00014102413764	0.000279125009759	0.000001838543762
708	massimi	-0.079038	0.010039	-10.608876	0.000020590391115	0.000089539833858	0.000001569824711
708	minimi	-0.093147	0.009138	-11.395074	0.000017911350828	0.000083711803826	0.000001353090302
709	massimi	-0.079038	0.007881	-10.256229	0.000020590391115	0.000508127760726	0.000001671608687
709	minimi	-0.093147	0.007275	-11.015064	0.000017911350828	0.000470920382321	0.000001446315921
710	massimi	-0.078151	0.007824	-10.242253	-0.000066204120924	0.00045115996877	0.000001907583329
710	minimi	-0.092119	0.007227	-11.000632	-0.000070339495208	0.000418228143211	0.000001646557978
711	massimi	-0.079784	0.008979	-10.446929	0.000182209166846	0.000300783072706	0.000001104717707
711	minimi	-0.094009	0.008224	-11.219929	0.000167414294831	0.000279125009759	0.000000961870459
712	massimi	-0.079782	0.00997	-10.573239	0.000113900120177	0.000152561334592	0.000001578408379
712	minimi	-0.094007	0.00908	-11.355874	0.000104224013754	0.000142013887475	0.000001364056675
713	massimi	-0.079797	0.007957	-10.222445	0.000111714571657	0.000451022918984	0.000001625688261
713	minimi	-0.094023	0.007339	-10.977861	0.000102195836948	0.000418108925136	0.000001407361097
714	massimi	-0.078166	0.010103	-10.593048	-0.000068232297731	0.000152424284807	0.000001860303447
714	minimi	-0.092135	0.009193	-11.378646	-0.000072525043727	0.0001418946694	0.000001603253556
715	massimi	0.028037	0.058401	-14.538571	-0.00019990879366	0.00030068832011	0.000002539293567
715	minimi	0.021542	0.052809	-15.85026	-0.000212874409765	0.000258087869372	0.000002358307881
716	massimi	0.026488	0.060065	-14.659482	0.000020813612817	-0.000003890355875	0.000002354212363
716	minimi	0.020113	0.054341	-15.990588	0.000013326005788	-0.000019726690657	0.000002169644698
717	massimi	0.026488	0.05649	-14.333411	0.000020813612817	0.000601369564419	0.000003016233726
717	minimi	0.020113	0.051054	-15.610696	0.000013326005788	0.000532557171971	0.000002768276556
718	massimi	0.028082	0.056542	-14.306257	-0.000107215488645	0.000517646415729	0.000003001495531
718	minimi	0.021581	0.051098	-15.584429	-0.000111196311307	0.000455982983699	0.000002763840319
719	massimi	0.024887	0.058401	-14.52375	0.000254505931933	0.00030068832011	0.000002833087417
719	minimi	0.018645	0.052809	-15.827112	0.00022656355611	0.000258087869372	0.000002581392435
720	massimi	0.024953	0.060099	-14.615876	0.000155204803371	0.000085886218032	0.000002774137724
720	minimi	0.018704	0.054368	-15.939307	0.00013586856779	0.000062013084622	0.000002546635149
721	massimi	0.02485	0.056504	-14.291519	0.000153019940211	0.00051750787956	0.000003081655566
721	minimi	0.018611	0.05107	-15.561411	0.000133993248265	0.000455894285316	0.000002824707712
722	massimi	0.027979	0.060061	-14.630613	-0.00010909080817	0.000085747681862	0.000002693977689
722	minimi	0.021488	0.05434	-15.962325	-0.000113381174466	0.00006192438624	0.000002485767756
723	massimi	0.068667	0.159942	-16.428454	-0.000146223807581	0.000482002182932	0.000007552008246
723	minimi	0.057581	0.146687	-17.808443	-0.000150939753249	0.000404519640851	0.000006376699399
724	massimi	0.066086	0.157203	-16.29087	0.00002677862102	0.000659717416731	0.00000859750525
724	minimi	0.055401	0.144367	-17.642483	0.000017267646403	0.000568008491336	0.000007311462504
725	massimi	0.068727	0.157255	-16.277461	-0.000085647295649	0.000595637999007	0.000008278401947
725	minimi	0.057635	0.144412	-17.630539	-0.000086199951268	0.000508990264155	0.000007008484828
726	massimi	0.066086	0.162458	-16.554772	0.00002677862102	0.000304280998777	0.000007117872659
726	minimi	0.055401	0.148803	-17.956933	0.000017267646403	0.000241025796538	0.000005954455872
727	massimi	0.063412	0.159942	-16.417188	0.000204496664705	0.000482002182932	0.000008163369662
727	minimi	0.053145	0.146687	-17.790973	0.000180758887217	0.000404519640851	0.000006889218977
728	massimi	0.063485	0.162497	-16.529651	0.000140030243266	0.000369960460092	0.000007961030042
728	minimi	0.053211	0.148836	-17.926994	0.000121411441663	0.000301378871225	0.000006699806534
729	massimi	0.06337	0.157208	-16.266216	0.000139290818515	0.000595596918747	0.000008501867775
729	minimi	0.053105	0.144372	-17.6131	0.000120790880501	0.000508963774389	0.000007195821825
730	massimi	0.068612	0.162449	-16.540896	-0.0000863867204	0.000369919379832	0.000007737564214
730	minimi	0.05753	0.148797	-17.944432	-0.00008682051243	0.000301352381458	0.000006512469537
731	massimi	-0.098437	0.000154	-10.458428	-0.00014228522466	0.000294638091631	-0.000004357897129
731	minimi	-0.114401	0.000047	-11.23287	-0.000153502047852	0.000272795708055	-0.000004812739929
732	massimi	-0.095661	-0.003099	-10.602431	0.000008066918195	0.000083495352744	-0.000004887535678
732	minimi	-0.111323	-0.003566	-11.388205	0.000007176766585	0.000077473203541	-0.000005428437003
733	massimi	-0.095661	0.00366	-10.257781	0.000008066918194	0.000501961926861	-0.000004885794277
733	minimi	-0.111323	0.003406	-11.015959	0.000007176766585	0.000464582415412	-0.000005427903849
734	massimi	-0.09843	0.003562	-10.237855	-0.000076990478875	0.000444909411277	-0.000005110195249
734	minimi	-0.114395	0.003321	-10.994589	-0.000082917673753	0.000411806442041	-0.000005669137832
735	massimi	-0.092704	0.000154	-10.450446	0.000169637548124	0.000294638091631	-0.000005418951964
735	minimi	-0.108034	0.000047	-11.223898	0.000156640238111	0.000272795708055	-0.000006047510026
736	massimi	-0.092736	-0.003151	-10.572758	0.000101268528758	0.000146397343776	-0.000005400508812
736	minimi	-0.10807	-0.003627	-11.355958	0.000093393920026	0.000135663069233	-0.000006006287679
737	massimi	-0.092737	0.003721	-10.229918	0.00009912763087	0.000444855717814	-0.00000539969991
737	minimi	-0.10807	0.003458	-10.985667	0.000091411733161	0.000411758673433	-0.000006006040023
738	massimi	-0.098431	-0.003014	-10.580695	-0.00007897266574	0.000146343650313	-0.000005111004151
738	minimi	-0.114395	-0.003468	-11.364879	-0.00008505857164	0.000135615300625	-0.000005669385488

739	massimi	-0.000692	0.026438	-14.789393	-0.00026511860282	0.00029951376006	-0.000001880580185
739	minimi	-0.00483	0.024531	-16.136993	-0.000288201128312	0.000256807033219	-0.000002130769798
740	massimi	0.000556	0.024967	-14.942553	-0.000047425375954	-0.000011657048851	-0.000002039561725
740	minimi	-0.003719	0.023214	-16.314799	-0.000049409549459	-0.00002676479186	-0.000002276768371
741	massimi	0.000556	0.027798	-14.6181	-0.000047425375954	0.000606802361591	-0.000001761481967
741	minimi	-0.003719	0.025744	-15.93639	-0.000049409549459	0.000537050202681	-0.000001977071693
742	massimi	-0.00066	0.027802	-14.55661	-0.000170795832979	0.000520942118082	-0.000001973697928
742	minimi	-0.004802	0.025745	-15.870444	-0.000184659897665	0.000458608516716	-0.000002218625738
743	massimi	0.001803	0.026438	-14.842138	0.000189371829829	0.00029951376006	-0.000001921832969
743	minimi	-0.002601	0.024531	-16.191944	0.000170258060938	0.000256807033219	-0.000002124602864
744	massimi	0.001818	0.024985	-14.931806	0.000087550884514	0.000079766106972	-0.000002114125317
744	minimi	-0.002587	0.023228	-16.301506	0.000077363574215	0.000056412922153	-0.000002356156269
745	massimi	0.001771	0.027801	-14.609059	0.000085374555949	0.000521270989853	-0.000001984953523
745	minimi	-0.002631	0.025751	-15.925087	0.000075497561508	0.000458924181755	-0.000002216943124
746	massimi	-0.000707	0.024984	-14.879357	-0.000172661845685	0.000080094978742	-0.0000022102869722
746	minimi	-0.004845	0.023233	-16.246863	-0.000186836226229	0.000056728587192	-0.000002357838883
747	massimi	0.095457	0.024242	-17.86571	-0.00053578427698	0.000138355385648	-0.000001061999708
747	minimi	0.08336	0.023619	-19.36988	-0.000583552350797	0.000087174075756	-0.00000383681058
748	massimi	0.096658	0.025358	-17.95346	-0.000356185793748	0.000333605496619	-0.000000565849719
748	minimi	0.083644	0.023829	-19.451411	-0.000388303782643	0.000266774219474	-0.000003277589086
749	massimi	0.095481	0.025393	-17.816368	-0.000470726753729	0.000262251290726	-0.00000079909949
749	minimi	0.083381	0.023861	-19.302047	-0.000512794074173	0.000201075316009	-0.000003625190328
750	massimi	0.096658	0.023377	-18.01033	-0.000356185793748	-0.000056896433331	-0.00000078435253
750	minimi	0.083644	0.023091	-19.541672	-0.000388303782643	-0.000092427144133	-0.000003501849315
751	massimi	0.097724	0.024242	-18.09808	-0.000176582913373	0.000138355385649	-0.000000288202541
751	minimi	0.083812	0.023619	-19.623203	-0.000193050420848	0.000087174075756	-0.000002942627821
752	massimi	0.097742	0.023411	-18.105096	-0.000242658734756	0.000014309577269	-0.000000596127385
752	minimi	0.083831	0.023132	-19.645022	-0.000264852360716	-0.000026992702964	-0.000003380319146
753	massimi	0.097725	0.025324	-18.048326	-0.000242792465829	0.000262846975638	-0.000000516259879
753	minimi	0.083814	0.023801	-19.554921	-0.000265064607465	0.0002016217297	-0.000003298347179
754	massimi	0.095464	0.023351	-17.873138	-0.000470860484802	0.000014905262181	-0.000000878966995
754	minimi	0.083364	0.023063	-19.392148	-0.000513006320922	-0.000026446289273	-0.000003707162295
755	massimi	-0.131713	-0.010829	-10.315854	-0.000167507062323	0.000166703009941	-0.000012852126146
755	minimi	-0.151466	-0.01207	-11.065518	-0.000181863164246	0.000156285222355	-0.00001380752217
756	massimi	-0.123893	-0.019813	-10.401715	-0.000020035861465	-0.000035700503504	-0.000013472973161
756	minimi	-0.143041	-0.021758	-11.157495	-0.000022641832833	-0.000040566330171	-0.000014527144699
757	massimi	-0.123893	-0.001798	-10.204264	-0.000020035861464	0.000371811656128	-0.000013595722606
757	minimi	-0.143041	-0.00223	-10.946883	-0.000022641832833	0.000346245282748	-0.000014663963229
758	massimi	-0.131687	-0.001936	-10.169235	-0.000103618462826	0.000314271330036	-0.000014396519776
758	minimi	-0.151438	-0.002486	-10.908497	-0.000112896179326	0.000292972869993	-0.0000155120848
759	massimi	-0.115837	-0.010829	-10.338138	0.000136574828473	0.000166703009941	-0.000014226316398
759	minimi	-0.134344	-0.01207	-11.090699	0.000127431206796	0.000156285222355	-0.000015394096764
760	massimi	-0.115916	-0.019861	-10.387806	0.00006861015832	0.000020512813733	-0.000014714443616
760	minimi	-0.134431	-0.021816	-11.143044	0.000064493277241	0.000020102511488	-0.000015881421617
761	massimi	-0.115897	-0.001759	-10.191393	0.000067398861709	0.000314422004532	-0.00001477146221
761	minimi	-0.13441	-0.002282	-10.933538	0.000063357678308	0.000293106228826	-0.000015944975471
762	massimi	-0.131668	-0.019684	-10.365648	-0.000104754061758	0.000020646172565	-0.000014339501181
762	minimi	-0.151417	-0.021612	-11.118004	-0.000114107475937	0.000020253215683	-0.000015448530946
763	massimi	-0.02245	-0.004424	-14.419897	-0.000327847210864	0.000183665313099	-0.000002972007934
763	minimi	-0.023283	-0.005628	-15.718564	-0.000358140305485	0.000152358144327	-0.000003719508087
764	massimi	-0.020223	-0.006471	-14.545685	-0.000115336345521	-0.00011913221217	-0.000003065008157
764	minimi	-0.021491	-0.008165	-15.866307	-0.000125226968598	-0.00012381650145	-0.000003798382473
765	massimi	-0.020223	-0.002358	-14.353195	-0.000115336345521	0.000484082223754	-0.00000311515446
765	minimi	-0.021491	-0.003067	-15.634263	-0.000125226968598	0.000426557969608	-0.000003862178213
766	massimi	-0.022443	-0.002385	-14.254666	-0.000236448811513	0.000399015232365	-0.000003302347854
766	minimi	-0.023278	-0.003096	-15.526984	-0.00025790093677	0.000348789343979	-0.000004103482596
767	massimi	-0.017957	-0.004424	-14.548171	0.000107660517808	0.000183665313099	-0.000003210381307
767	minimi	-0.019658	-0.005628	-15.857838	0.000097150711053	0.000152358144327	-0.000003943812589
768	massimi	-0.01798	-0.006478	-14.573698	0.000007599871613	-0.000031285825703	-0.000003344093084
768	minimi	-0.019677	-0.008169	-15.8963	0.000005794838964	-0.000043818496824	-0.000004135048864
769	massimi	-0.01797	-0.002355	-14.382219	0.000006265321683	0.000399848747654	-0.000003367386717
769	minimi	-0.019669	-0.003067	-15.665476	0.000004687773361	0.000349557026919	-0.000004164682844
770	massimi	-0.022433	-0.006447	-14.446145	-0.000237555877117	-0.000030452310413	-0.000003279054221
770	minimi	-0.02327	-0.00814	-15.757809	-0.0002592354867	-0.000043050813884	-0.000004073848615
771	massimi	0.179542	-0.084403	-16.606566	-0.000684411987344	-0.00059315689555	0.000004118840609
771	minimi	0.162436	-0.092849	-17.959365	-0.000742195562541	-0.000607253303385	0.000002184962995
772	massimi	0.178659	-0.08597	-16.968782	-0.000517281802901	-0.000425991059363	0.000004472781122
772	minimi	0.160922	-0.093792	-18.340421	-0.000560940529243	-0.000426019856879	0.000002581877853
773	massimi	0.17953	-0.085919	-16.780311	-0.000624688250397	-0.000488391111992	0.000004610581355

773	minimi	0.162423	-0.093737	-18.136061	-0.000677396596542	-0.00049357524385	0.000002652725917
774	massimi	0.178659	-0.082718	-16.581817	-0.000517281802901	-0.00076028661165	0.000005253594339
774	minimi	0.160922	-0.091778	-17.944258	-0.000560940529243	-0.000788508050816	0.000003440831385
775	massimi	0.177528	-0.084403	-16.944033	-0.000350145232573	-0.00059315689555	0.000005607534851
775	minimi	0.159183	-0.092849	-18.325314	-0.000379678571088	-0.000607253303385	0.000003837746243
776	massimi	0.177521	-0.082675	-16.730899	-0.000412451983241	-0.000700627379147	0.000005440135446
776	minimi	0.159179	-0.091729	-18.105901	-0.000447223383238	-0.000723748457154	0.000003570820067
777	massimi	0.177588	-0.086035	-17.11718	-0.000411542039458	-0.000487597565859	0.000005154731317
777	minimi	0.15924	-0.093866	-18.501361	-0.000446291814588	-0.000492714722205	0.000003256853962
778	massimi	0.179596	-0.082791	-16.394031	-0.000623778306614	-0.000699833833014	0.000004895985483
778	minimi	0.162484	-0.091857	-17.740601	-0.000676465027892	-0.000722887935509	0.000002966692022
779	massimi	-0.202384	-0.037629	-9.195141	-0.000255400473708	0.000116469096823	0.000006775968127
779	minimi	-0.224454	-0.041735	-9.786578	-0.00028026724158	0.000099476891218	0.000005866746518
780	massimi	-0.205352	-0.034404	-9.305936	-0.000124541033668	-0.000065888121736	0.000003574661076
780	minimi	-0.227902	-0.037979	-9.915186	-0.000140019538872	-0.000070614450378	0.000004939463778
781	massimi	-0.205352	-0.040695	-9.180256	-0.000124541033668	0.000297316720145	0.000005273517133
781	minimi	-0.227902	-0.045313	-9.768039	-0.000140019538872	0.000268278879284	0.000004512912878
782	massimi	-0.202464	-0.040841	-9.090009	-0.000199348415289	0.00024593946242	0.000006160761767
782	minimi	-0.224543	-0.045475	-9.667732	-0.000220188516994	0.000220270486878	0.000005294431307
783	massimi	-0.207929	-0.037629	-9.333652	0.00000629271853	0.000116469096823	0.000004248127844
783	minimi	-0.230918	-0.041735	-9.942304	0.000000199283397	0.000099476891218	0.000003589033708
784	massimi	-0.207971	-0.034581	-9.352761	-0.000050186022622	-0.000013151788786	0.00000569080812
784	minimi	-0.230964	-0.038177	-9.968957	-0.000060325520289	-0.000021478208852	0.000004871104305
785	massimi	-0.207905	-0.040548	-9.227742	-0.000050908841132	0.000246871433439	0.000005471050435
785	minimi	-0.23089	-0.04515	-9.822583	-0.000061171807481	0.000221099432858	0.000004672966277
786	massimi	-0.202398	-0.034288	-9.215028	-0.000200071233798	-0.000012219817768	0.000006380519452
786	minimi	-0.22447	-0.037852	-9.814106	-0.000221034804186	-0.000020649262871	0.000005492569334
787	massimi	-0.004358	-0.036303	-12.255038	-0.000392866830978	-0.000008791856422	-0.000002342593917
787	minimi	-0.005313	-0.040402	-13.299774	-0.000429117935303	-0.000010246080178	-0.000003009113028
788	massimi	-0.002587	-0.037799	-12.33891	-0.000213358670097	-0.000241170341081	-0.000002157779863
788	minimi	-0.003931	-0.042328	-13.391013	-0.000233092952586	-0.00026400187079	-0.00000279337923
789	massimi	-0.002587	-0.034653	-12.350018	-0.000213358670097	0.000243642517046	-0.000002569304109
789	minimi	-0.003931	-0.038305	-13.403958	-0.000233092952586	0.000223700585638	-0.000003251368553
790	massimi	-0.004382	-0.034679	-12.202229	-0.000316702186897	0.000170007046738	-0.000002631496884
790	minimi	-0.005337	-0.038334	-13.242512	-0.000345948088658	0.000156275670318	-0.000003352860537
791	massimi	-0.000812	-0.036303	-12.49233	-0.000033894552638	-0.000008791856422	-0.000002386193156
791	minimi	-0.002541	-0.040402	-13.559014	-0.000037116087018	-0.000010246080178	-0.000003037812592
792	massimi	-0.00086	-0.037809	-12.427138	-0.000112092350846	-0.000175338494927	-0.00000245223414
792	minimi	-0.002583	-0.042336	-13.487419	-0.000122511799148	-0.000192119428027	-0.000003147948845
793	massimi	-0.000789	-0.034673	-12.438187	-0.00011202846741	0.000171558521967	-0.000002643392696
793	minimi	-0.002519	-0.03833	-13.500295	-0.000122437349023	0.00015769579344	-0.000003360691056
794	massimi	-0.004311	-0.037804	-12.191179	-0.000316638303461	-0.000173918371805	-0.000002342593827
794	minimi	-0.005273	-0.042333	-13.229635	-0.000345873638532	-0.000190567952797	-0.000003140118326
795	massimi	0.061749	-0.226366	-10.899765	-0.001012421587778	-0.000121212221804	-0.000019498841353
795	minimi	0.057634	-0.246515	-11.76008	-0.00109652851595	-0.000143188877869	-0.000021253684502
796	massimi	0.068797	-0.219787	-11.24101	-0.00090296015515	-0.000002602480118	-0.000020249405151
796	minimi	0.0641	-0.239342	-12.11861	-0.000977925558736	-0.000033720987844	-0.000022075719175
797	massimi	0.061688	-0.219811	-10.934012	-0.000974028633412	-0.000046849091355	-0.000020333776877
797	minimi	0.057578	-0.239369	-11.786137	-0.001054902479125	-0.000074608180363	-0.000022166693522
798	massimi	0.068797	-0.232629	-11.147596	-0.00090296015515	-0.000239820467116	-0.000018155287478
798	minimi	0.0641	-0.253344	-12.039533	-0.000977925558736	-0.000252655000216	-0.000019795202275
799	massimi	0.07575	-0.226366	-11.488841	-0.000793487575406	-0.000121212221804	-0.000018905851276
799	minimi	0.070476	-0.246515	-12.398063	-0.000859310528951	-0.000143188877869	-0.000020617236949
800	massimi	0.075652	-0.232619	-11.428796	-0.000835020679806	-0.000197466104097	-0.000019351580842
800	minimi	0.070387	-0.253333	-12.344053	-0.000904285466383	-0.000213616133969	-0.000021100479889
801	massimi	0.07583	-0.219857	-11.522044	-0.000834801018145	-0.000045348885778	-0.000020117026171
801	minimi	0.07055	-0.239418	-12.42299	-0.000904099518435	-0.00007322297691	-0.000021934058168
802	massimi	0.061865	-0.232666	-10.840763	-0.00097380897175	-0.00019596589852	-0.000019568331549
802	minimi	0.057741	-0.253383	-11.707201	-0.001054716531177	-0.000212230930516	-0.000021333115243
803	massimi	-0.274382	0.032092	-15.57951	-0.000278387221888	0.000974597798268	0.000013480287467
803	minimi	-0.302851	0.031221	-16.903477	-0.000321853399524	0.000879739165393	0.000012413036978
804	massimi	-0.278297	0.028037	-15.332731	-0.000123195038278	0.001143564842227	0.000012208243758
804	minimi	-0.307098	0.027479	-16.635439	-0.000152881283485	0.001034926679203	0.000011270184669
805	massimi	-0.274418	0.027941	-15.274838	-0.000221255499663	0.001083336816636	0.000013035431766
805	minimi	-0.302891	0.027393	-16.566312	-0.000259666229855	0.00097959871645	0.000012020087267
806	massimi	-0.278297	0.036102	-15.906659	-0.000123195038278	0.000805618722819	0.000011911358789
806	minimi	-0.307098	0.03492	-17.271251	-0.000152881283485	0.000724540791132	0.000010981357193
807	massimi	-0.281823	0.032092	-15.65988	0.000031998666184	0.000974597798268	0.000010639315081
807	minimi	-0.310916	0.031221	-17.003214	0.000016092719885	0.000879739165393	0.000009838504884

808	massimi	-0.281839	0.035986	-15.927977	-0.000024181930958	0.000868764407447	0.000011888476996
808	minimi	-0.310935	0.034814	-17.300557	-0.000045093820665	0.000782525147745	0.000010973467378
809	massimi	-0.281862	0.028162	-15.355067	-0.000025531511804	0.001083571347119	0.000011996994877
809	minimi	-0.310958	0.027593	-16.665872	-0.000046588921227	0.000979787706176	0.000011079040071
810	massimi	-0.27444	0.036207	-15.847749	-0.000222605080508	0.00086899893793	0.000012926913885
810	minimi	-0.302914	0.035014	-17.200997	-0.000261161330416	0.000782714137471	0.000011914514574
811	massimi	0.063407	-0.023082	-14.501771	-0.00036772058715	-0.000582492513712	-0.000002473833727
811	minimi	0.058381	-0.025912	-15.777351	-0.000402825696674	-0.000626415042159	-0.000002660732777
812	massimi	0.064243	-0.02233	-14.764623	-0.000223327406335	-0.000438094358941	-0.000002306961575
812	minimi	0.059158	-0.025104	-16.061658	-0.000245178908372	-0.000468762873907	-0.000002483435036
813	massimi	0.063409	-0.022313	-14.674553	-0.000315814536183	-0.000491921653178	-0.000002412611059
813	minimi	0.058383	-0.025086	-15.962886	-0.000346150140742	-0.000527516492159	-0.000002594821922
814	massimi	0.064243	-0.023801	-14.384614	-0.000223327406335	-0.000726883477566	-0.000002093433146
814	minimi	0.059158	-0.026685	-15.652995	-0.000245178908372	-0.000784059477265	-0.000002243719908
815	massimi	0.064988	-0.023082	-14.647466	-0.000078931468525	-0.000582492513712	-0.000001926560995
815	minimi	0.059852	-0.025912	-15.937302	-0.000087529093316	-0.000626415042158	-0.000002066422167
816	massimi	0.064985	-0.023781	-14.440655	-0.000132453422171	-0.00067528276719	-0.00000213452177
816	minimi	0.05985	-0.026663	-15.714614	-0.000145958607517	-0.000727708025383	-0.000002289967465
817	massimi	0.065004	-0.022356	-14.81999	-0.000131559838289	-0.00049157905346	-0.000002212571032
817	minimi	0.059867	-0.025132	-16.122553	-0.000144997643432	-0.000527140370723	-0.000002377588532
818	massimi	0.063427	-0.023824	-14.295218	-0.000314920952301	-0.000674940167472	-0.000002334561797
818	minimi	0.058399	-0.026709	-15.554947	-0.000345189176657	-0.000727331903947	-0.000002507200854
819	massimi	-0.01226	-0.002425	-15.156649	-0.000304023289319	-0.000434760359688	-0.000023473129622
819	minimi	-0.012653	-0.005875	-16.500781	-0.000305629363214	-0.000478838813347	-0.000025868611333
820	massimi	-0.003607	0.006232	-15.348926	-0.000139257906771	-0.000283827808028	-0.000023522507164
820	minimi	-0.0048	0.001986	-16.7024	-0.000154700450025	-0.000314069615572	-0.000025896512855
821	massimi	-0.012239	0.006208	-15.280518	-0.000244464703928	-0.000339749394097	-0.000024280638552
821	minimi	-0.012636	0.001963	-16.637363	-0.000251113175033	-0.000375101872852	-0.000026746483011
822	massimi	-0.003607	-0.01108	-15.065296	-0.000139257906771	-0.000585687544195	-0.000023468156591
822	minimi	-0.0048	-0.013728	-16.390013	-0.000154700450025	-0.000643602099819	-0.000025874076267
823	massimi	0.005052	-0.002425	-15.257573	0.000025509194928	-0.000434760359688	-0.000023517534133
823	minimi	0.00306	-0.005875	-16.591631	-0.000003769627046	-0.000478838813347	-0.000025901977789
824	massimi	0.005028	-0.011058	-15.098135	-0.000035234371073	-0.000531409446119	-0.000024277003051
824	minimi	0.003037	-0.01371	-16.416219	-0.00005945312301	-0.000584332205707	-0.000026750478115
825	massimi	0.005029	0.006211	-15.381263	-0.00003449979915	-0.000339512072886	-0.000024296869362
825	minimi	0.003041	0.001966	-16.728052	-0.00005878617049	-0.000374888241572	-0.000026758679173
826	massimi	-0.012237	-0.011056	-14.99739	-0.000243730132005	-0.000531172124908	-0.000024260772242
826	minimi	-0.012631	-0.013706	-16.32553	-0.000250446222512	-0.000584118574427	-0.000026738281953
827	massimi	0.085631	-0.087146	-11.269677	-0.000579948518009	-0.000772700591529	-0.000013219723025
827	minimi	0.077932	-0.097189	-12.223025	-0.000634529928247	-0.000845293447549	-0.000014603274939
828	massimi	0.090437	-0.082792	-11.674425	-0.000468127799959	-0.000660872214415	-0.000013242219866
828	minimi	0.082283	-0.092378	-12.665995	-0.000512708633375	-0.000723463770354	-0.0000146348067991
829	massimi	0.08562	-0.082785	-11.508373	-0.000540474898596	-0.0007033042283	-0.000013553722115
829	minimi	0.077923	-0.092371	-12.484206	-0.000591533082294	-0.000769698377368	-0.000014975201501
830	massimi	0.090437	-0.091379	-11.170328	-0.000468127799959	-0.000884519429591	-0.000012436026935
830	minimi	0.082283	-0.101865	-12.114539	-0.000512708633375	-0.000967112689527	-0.000013735404991
831	massimi	0.095117	-0.087146	-11.575076	-0.000356301302833	-0.000772700591529	-0.000012458523777
831	minimi	0.086519	-0.097189	-12.557508	-0.000390881009074	-0.000845293447549	-0.000013766638043
832	massimi	0.095082	-0.09135	-11.310027	-0.000398474387234	-0.000845304739662	-0.000012980806354
832	minimi	0.086487	-0.101833	-12.267617	-0.000436832872465	-0.000924398587196	-0.000014340751006
833	massimi	0.095152	-0.082845	-11.813231	-0.000397289010979	-0.000702586087814	-0.000013275487317
833	minimi	0.08655	-0.092436	-12.818096	-0.000435536133738	-0.000768911846794	-0.00001466939261
834	massimi	0.08569	-0.091409	-11.005169	-0.000539289522341	-0.000844586599176	-0.000013259041152
834	minimi	0.077985	-0.101898	-11.933727	-0.000590236343566	-0.000923612056622	-0.000014646559897
835	massimi	0.18374	-0.067259	-13.940456	-0.000561014018664	-0.000462158697325	-0.000018924648653
835	minimi	0.164357	-0.074857	-15.208379	-0.000614492221801	-0.000510757119489	-0.000021079790108
836	massimi	0.190627	-0.061147	-14.22878	-0.000421753152042	-0.000322892374721	-0.000018446915748
836	minimi	0.170541	-0.068051	-15.525683	-0.000461994986774	-0.000358253880109	-0.000020544292937
837	massimi	0.183756	-0.061111	-14.074774	-0.000511209759121	-0.000374804065031	-0.000019142630341
837	minimi	0.164372	-0.06801	-15.356986	-0.000559958036259	-0.000415107310177	-0.000021320437329
838	massimi	0.190627	-0.073277	-13.927276	-0.000421753152043	-0.000601419314542	-0.000017824701938
838	minimi	0.170541	-0.081559	-15.192473	-0.000461994986774	-0.00066325405353	-0.000019851787845
839	massimi	0.197249	-0.067259	-14.2156	-0.000282447078844	-0.000462158697325	-0.000017346969033
839	minimi	0.176487	-0.074857	-15.509777	-0.000309492048381	-0.000510757119489	-0.000019316290674
840	massimi	0.197229	-0.073208	-14.048461	-0.000334364418787	-0.000551649405365	-0.000018338521684
840	minimi	0.176469	-0.081483	-15.325231	-0.000366304023813	-0.000608761322623	-0.000020422714524
841	massimi	0.197283	-0.061234	-14.349432	-0.000333655435318	-0.000374157066469	-0.000018565954297
841	minimi	0.176518	-0.068147	-15.65785	-0.000365520486997	-0.000414398577851	-0.000020675840121
842	massimi	0.18381	-0.073331	-13.773804	-0.000510500775652	-0.000551002406802	-0.000018915197728

842	minimi	0.16442	-0.08162	-15.024367	-0.000559174499442	-0.000608052590297	-0.000021067311731
843	massimi	0.253239	-0.428525	-4.320696	-0.002039280660111	-0.000639315959705	0.00003113431774
843	minimi	0.228647	-0.463559	-4.634956	-0.002196673404717	-0.000696565559146	0.000027684882353
844	massimi	0.242622	-0.437823	-5.179704	-0.001994127346171	-0.000594146390728	0.000030112368842
844	minimi	0.219203	-0.474022	-5.56275	-0.00214775612045	-0.000647630718187	0.000026716657813
845	massimi	0.253077	-0.437776	-4.524697	-0.002026507313068	-0.00061319841754	0.000032138256779
845	minimi	0.228496	-0.473969	-4.857243	-0.002182817958924	-0.000668267621908	0.000028560684424
846	massimi	0.242622	-0.418629	-4.762625	-0.0021994127346171	-0.000684477636274	0.000034400770864
846	minimi	0.219203	-0.452449	-5.108322	-0.00214775612045	-0.000745491800946	0.000030680957734
847	massimi	0.231666	-0.428525	-5.621633	-0.001948949414565	-0.000639315959705	0.000033378821966
847	minimi	0.209453	-0.463559	-6.036117	-0.002098812321958	-0.000696565559146	0.000029712733194
848	massimi	0.23156	-0.418633	-5.406988	-0.0019691532206	-0.000670552510008	0.000034526175392
848	minimi	0.209353	-0.452452	-5.802298	-0.002120682940685	-0.000730402640148	0.000030750945204
849	massimi	0.231894	-0.437934	-5.823328	-0.001968172465613	-0.000610139287999	0.000032958671647
849	minimi	0.209662	-0.474143	-6.255921	-0.002119614360845	-0.000664972815181	0.000029301907791
850	massimi	0.25341	-0.418791	-4.108357	-0.002025526558082	-0.000667493380467	0.000033705760524
850	minimi	0.228805	-0.452627	-4.40362	-0.002181749379085	-0.00072710783342	0.000030009721837
851	massimi	0.271594	-0.111496	-9.884497	-0.000651791202005	-0.000837109601763	-0.000000645350478
851	minimi	0.245183	-0.121445	-10.72305	-0.000704532388656	-0.000916445119608	-0.000000804186092
852	massimi	0.271632	-0.111582	-10.338263	-0.0005539941649	-0.000739303978014	-0.000000026946114
852	minimi	0.24519	-0.121512	-11.217025	-0.00059792310302	-0.000809826486472	-0.00000109494555
853	massimi	0.271586	-0.111508	-10.145867	-0.000617625267543	-0.000776786594879	-0.00000009797877
853	minimi	0.245175	-0.12143	-11.00924	-0.000667281168776	-0.000850688277007	-0.000000197252665
854	massimi	0.271632	-0.111255	-9.792147	-0.0005539941649	-0.000934904891326	0.000001013999307
854	minimi	0.24519	-0.121209	-10.619151	-0.00059792310302	-0.001023052439154	0.000001004508621
855	massimi	0.271291	-0.111496	-10.245913	-0.000456190288692	-0.000837109601763	0.000001708690844
855	minimi	0.244856	-0.121445	-11.113125	-0.000491306435974	-0.000916445119608	0.000001622912985
856	massimi	0.271284	-0.111182	-9.961494	-0.000493432217827	-0.000900979644595	0.000001131919556
856	minimi	0.244849	-0.121128	-10.80181	-0.000531897438232	-0.000986072007551	0.000001108139642
857	massimi	0.271372	-0.111685	-10.506643	-0.000492148033687	-0.000775936729439	0.000000731120614
857	minimi	0.244929	-0.121625	-11.398624	-0.000530491547909	-0.000849771021531	0.000000721258236
858	massimi	0.271673	-0.111359	-9.600718	-0.000616341083403	-0.000900129779155	0.000000279040258
858	minimi	0.245255	-0.121324	-10.412425	-0.000665875278453	-0.000985154752075	0.000000213408655
859	massimi	0.285099	-0.079136	-3.73052	-0.000649050402616	-0.001827652770282	0.00002526383454
859	minimi	0.263643	-0.086464	-4.108425	-0.000708631246199	-0.001976450004943	0.000023267936751
860	massimi	0.276416	-0.087257	-4.527175	-0.000614636107787	-0.001793223400325	0.000026142460762
860	minimi	0.255645	-0.09528	-4.882019	-0.000671052343999	-0.001938854760928	0.000024084385336
861	massimi	0.285082	-0.087154	-4.321929	-0.000638881266327	-0.001809215464236	0.000026813969295
861	minimi	0.263627	-0.095169	-4.657944	-0.000697512049723	-0.001956286156872	0.000024699743526
862	massimi	0.276416	-0.070904	-3.334844	-0.000614636107787	-0.001862059577717	0.000026942344973
862	minimi	0.255645	-0.077528	-3.592615	-0.000671052343999	-0.002014020849523	0.000024816471137
863	massimi	0.267348	-0.079136	-4.131499	-0.000580214225224	-0.001827652770282	0.000027820971195
863	minimi	0.247291	-0.086464	-4.456208	-0.000633465157604	-0.001976450004943	0.000025632919722
864	massimi	0.267377	-0.070844	-3.531979	-0.000595175055266	-0.001852921675298	0.000028041033071
864	minimi	0.247318	-0.077464	-3.807832	-0.000649786782905	-0.00200401142369	0.000025831789186
865	massimi	0.267439	-0.087338	-4.722197	-0.000592371309261	-0.001808272569853	0.000027748658082
865	minimi	0.247375	-0.095367	-5.094952	-0.00064675477163	-0.001955256716072	0.000025564195983
866	massimi	0.285144	-0.071028	-3.131711	-0.000636077520322	-0.001851978780914	0.000027106344284
866	minimi	0.263684	-0.077663	-3.370824	-0.000694480038449	-0.002002981982891	0.000024967336729
867	massimi	0.029027	0.028698	-10.354098	-0.00001292291702	0.000102643391126	0.000004428215781
867	minimi	0.025152	0.026549	-11.469618	-0.000014494230367	0.000090224325941	0.000004161413467
868	massimi	0.027523	0.027155	-10.296103	0.000097489524022	0.000214625910186	0.00000468826731
868	minimi	0.02374	0.025102	-11.404336	0.000087567958936	0.000190714104467	0.000004394024263
869	massimi	0.029037	0.027172	-10.312827	0.000026623755132	0.000173985083426	0.000004709421872
869	minimi	0.025161	0.025118	-11.422944	0.000023973824459	0.000154241256989	0.000004418402341
870	massimi	0.027523	0.030201	-10.354964	0.000097489524022	-0.000009340395075	0.00000442278129
870	minimi	0.02374	0.027958	-11.471299	0.000087567958936	-0.000010266566411	0.000004148421142
871	massimi	0.025981	0.028698	-10.29697	0.000209472074894	0.000102643391126	0.000004682832819
871	minimi	0.022295	0.026549	-11.406017	0.000188057753858	0.000090224325941	0.000004381031937
872	massimi	0.025999	0.030211	-10.314557	0.000168826866625	0.000031781971932	0.000004705449024
872	minimi	0.022312	0.027967	-11.4263	0.000151582648097	0.000026632433351	0.000004408904388
873	massimi	0.025978	0.027153	-10.255801	0.00016866940455	0.00017383552774	0.000004802489909
873	minimi	0.022292	0.025101	-11.359456	0.000151444237728	0.000154106921672	0.000004498677644
874	massimi	0.029017	0.030191	-10.371584	0.000026466293057	0.000031632416246	0.000004612380986
874	minimi	0.025141	0.02795	-11.489788	0.000023835414091	0.000026498098034	0.000004328629085
875	massimi	-0.01455	0.023052	-15.656332	-0.000096259125223	0.000325688921709	0.000003056139368
875	minimi	-0.017418	0.020753	-17.696214	-0.000108425244989	0.000284214098433	0.000002884763411
876	massimi	-0.015501	0.022043	-15.544342	0.000067994849948	0.000502106586617	0.000003077548495
876	minimi	-0.018424	0.019798	-17.567798	0.000059113507261	0.000439584611713	0.000002909055113

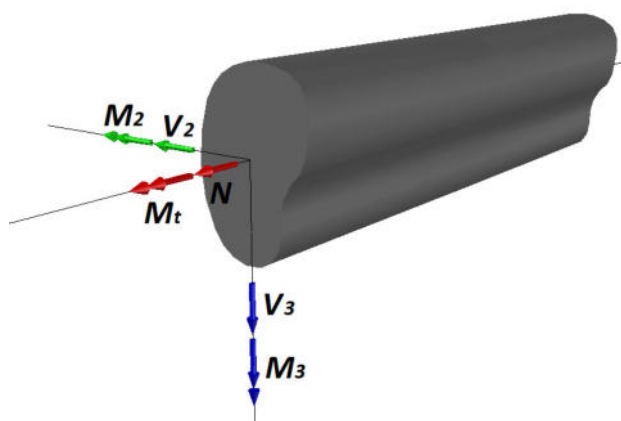
877	massimi	-0.014547	0.022042	-15.545446	-0.000039223901112	0.000438280051979	0.000003140114388
877	minimi	-0.017414	0.019798	-17.569337	-0.000043660085879	0.000383367952439	0.000002968163803
878	massimi	-0.015501	0.02403	-15.729758	0.000067994849948	0.000149267236145	0.000002864290348
878	minimi	-0.018424	0.021679	-17.780272	0.000059113507261	0.000128840076506	0.000002717067783
879	massimi	-0.016431	0.023052	-15.617768	0.000244414105483	0.000325688921709	0.000002885699475
879	minimi	-0.019404	0.020753	-17.651855	0.000214485409983	0.000284214098433	0.000002741359485
880	massimi	-0.016423	0.024024	-15.692038	0.000180368494831	0.000214251471269	0.00000299986445
880	minimi	-0.019396	0.021674	-17.737155	0.000158077383715	0.000186066667613	0.000002845571041
881	massimi	-0.016438	0.022055	-15.50695	0.000179868865455	0.000438175743167	0.000003077814918
881	minimi	-0.019413	0.019809	-17.525057	0.000157641379592	0.000383277268223	0.000002915746564
882	massimi	-0.014562	0.024037	-15.730534	-0.000039659905235	0.000214147162457	0.00000306216392
882	minimi	-0.017431	0.021685	-17.781435	-0.000044159715255	0.000185975983396	0.000002897988279
883	massimi	-0.024991	0.009345	-15.985991	-0.000149246708412	0.000482110650223	0.000003864835598
883	minimi	-0.029868	0.008453	-18.074207	-0.000166781200444	0.000420483913522	0.000003627867081
884	massimi	-0.026182	0.008094	-15.845669	0.000013727126486	0.000662615916574	0.000003764050823
884	minimi	-0.031134	0.007275	-17.912469	0.000009698410914	0.00057942637753	0.00000354586312
885	massimi	-0.024994	0.008088	-15.830341	-0.0000908825573	0.000597508108192	0.000003913340583
885	minimi	-0.029872	0.007269	-17.895947	-0.000100491211071	0.000522087871075	0.000003682259704
886	massimi	-0.026182	0.010583	-16.119986	0.000013727126486	0.000301599432177	0.000003677598101
886	minimi	-0.031134	0.00962	-18.22699	0.000009698410914	0.000261536258606	0.000003467663242
887	massimi	-0.027336	0.009345	-15.979664	0.000194235283953	0.000482110650223	0.000003576813326
887	minimi	-0.032357	0.008453	-18.065252	0.000168643410512	0.000420483913522	0.00000338565928
888	massimi	-0.027333	0.01057	-16.097856	0.000128729284047	0.000368287613074	0.000003776461869
888	minimi	-0.032354	0.009608	-18.200971	0.000110955678909	0.000320249634867	0.000003565143764
889	massimi	-0.02734	0.00811	-15.824025	0.0001279896929	0.000597487049829	0.00000380806221
889	minimi	-0.032361	0.007288	-17.887008	0.000110310627446	0.000522072993041	0.000003593727511
890	massimi	-0.025	0.010592	-16.104172	-0.000091527608762	0.000368266554711	0.000003881740242
890	minimi	-0.029879	0.009627	-18.209911	-0.000101230802219	0.000320234756832	0.000003653675957
891	massimi	-0.046466	0.000567	-16.021721	-0.00015882213645	0.000494063601678	0.000006983819784
891	minimi	-0.053314	0.000445	-18.116	-0.000178622838735	0.000430498963398	0.000006441855447
892	massimi	-0.048579	-0.001513	-15.881125	0.000002355570757	0.000675038947003	0.000006728689044
892	minimi	-0.055602	-0.001805	-17.954072	0.000000523033379	0.000589841472727	0.000006219775116
893	massimi	-0.046478	-0.001525	-15.862768	-0.000100319074852	0.000609770107975	0.000007045701299
893	minimi	-0.053327	-0.001819	-17.933799	-0.000112170432548	0.000532366057741	0.000006507566089
894	massimi	-0.048579	0.002694	-16.161976	0.000002355570757	0.000313082157098	0.000006324571935
894	minimi	-0.055602	0.002645	-18.276391	0.000000523033379	0.000271151139525	0.000006214532616
895	massimi	-0.050624	0.000567	-16.02138	0.000183333951169	0.000494063601678	0.000006469441195
895	minimi	-0.057813	0.000445	-18.114463	0.000159868196752	0.000430498963398	0.000005992452285
896	massimi	-0.050625	0.002668	-16.14278	0.000117647091523	0.000379952583904	0.0000068561799
896	minimi	-0.057814	0.002622	-18.254013	0.00010202724207	0.000330019740819	0.00000634138326
897	massimi	-0.050625	-0.00149	-15.862427	0.00011688916372	0.000609766494367	0.000006857684793
897	minimi	-0.057815	-0.001779	-17.932265	0.000101366826827	0.000532365255372	0.00000634299507
898	massimi	-0.046478	0.002708	-16.143121	-0.000100979490095	0.000379948970295	0.000007044196406
898	minimi	-0.053328	0.002657	-18.255547	-0.000112928360351	0.00033001893845	0.000006505649841
899	massimi	-0.082066	-0.011875	-15.93372	-0.000176861148938	0.000390264186837	0.000009723347788
899	minimi	-0.0934	-0.013238	-18.01279	-0.000198097104902	0.000336610475371	0.000008897476558
900	massimi	-0.084969	-0.01471	-15.82991	-0.000018116246372	0.000570242748268	0.000009215430009
900	minimi	-0.09657	-0.016331	-17.891399	-0.000018361724981	0.000495107934925	0.000008449523365
901	massimi	-0.082089	-0.014735	-15.805449	-0.000118769356205	0.000505154473849	0.000009726898636
901	minimi	-0.093426	-0.016359	-17.864517	-0.000132121551937	0.000437774913792	0.00000891162729
902	massimi	-0.084969	-0.009023	-16.049509	-0.000018116246372	0.000210280807562	0.000009337893963
902	minimi	-0.09657	-0.010127	-18.146001	-0.000018361724981	0.000178108860333	0.000008559377582
903	massimi	-0.087754	-0.011875	-15.945699	0.000161864835804	0.000390264186837	0.000008829976184
903	minimi	-0.099605	-0.013238	-18.024609	0.000140137925654	0.000336610475371	0.000008111424389
904	massimi	-0.087762	-0.009062	-16.036617	0.000096429380882	0.000276603541029	0.000009445115207
904	minimi	-0.099614	-0.010171	-18.130466	0.000082503128488	0.000236502429098	0.000008664462304
905	massimi	-0.087753	-0.014674	-15.817407	0.000095830688574	0.000505182265426	0.000009400351981
905	minimi	-0.099605	-0.01629	-17.876315	0.000081986744692	0.00043780308195	0.000008624308211
906	massimi	-0.082081	-0.009001	-16.024659	-0.000119285740001	0.000276631332607	0.000009771661861
906	minimi	-0.093417	-0.010102	-18.118668	-0.000132720244245	0.000236530597257	0.000008951781383
907	massimi	0.00	0.00	0.00	0.00	0.00	0.00
907	minimi	0.00	0.00	0.00	0.00	0.00	0.00
908	massimi	0.00	0.00	0.00	0.00	0.00	0.00
908	minimi	0.00	0.00	0.00	0.00	0.00	0.00
909	massimi	0.00	0.00	0.00	0.00	0.00	0.00
909	minimi	0.00	0.00	0.00	0.00	0.00	0.00
910	massimi	0.00	0.00	0.00	0.00	0.00	0.00
910	minimi	0.00	0.00	0.00	0.00	0.00	0.00

1.4.10.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N:** sforzo normale;
- **V₂:** sforzo di taglio in direzione 2;
- **V₃:** sforzo di taglio in direzione 3;
- **M_t:** momento torcente;
- **M₂:** momento flettente nel piano 1-2;
- **M₃:** momento flettente nel piano 1-3.



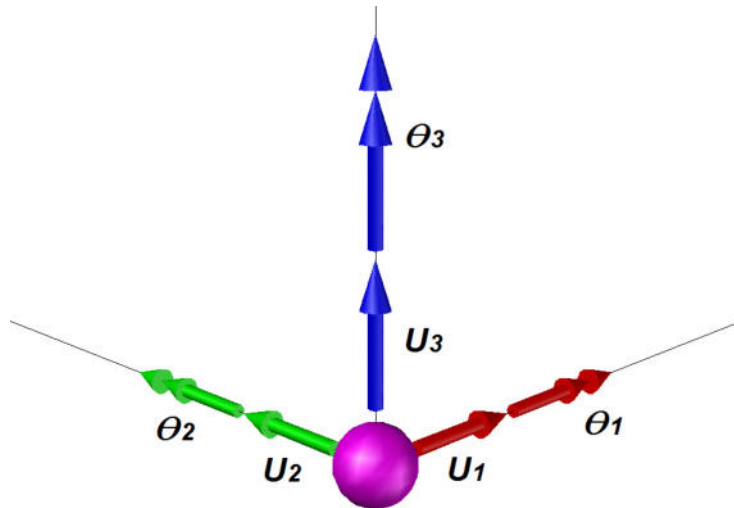
Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 23 (61-56)	53	massimi	0.00	1.80546	0.80334	-25.28881	8.06079	-7.10956	1.36
Asta 23 (61-56)	53	massimi	204.50	-2.11464	0.57839	-15.23213	8.06079	-44.27235	-0.079
Asta 23 (61-56)	53	massimi	409.00	-5.99736	0.23313	42.25195	8.0608	-41.1288	-0.87
Asta 23 (61-56)	53	minimi	0.00	1.74345	0.74066	-26.97336	7.45991	-7.69551	1.257
Asta 23 (61-56)	53	minimi	204.50	-2.46202	0.53741	-16.49924	7.45992	-47.58689	-0.081
Asta 23 (61-56)	53	minimi	409.00	-6.75816	0.2017	39.57008	7.45992	-44.67624	-0.944
Asta 25 (56-86)	55	massimi	0.00	0.37439	-3.04914	-81.29806	-0.99011	10.93575	-1.345
Asta 25 (56-86)	55	massimi	166.00	-0.02171	-0.03326	2.43064	-0.9901	-49.55811	1.317
Asta 25 (56-86)	55	massimi	332.00	-0.41797	3.13576	89.75407	-0.99009	17.75792	-1.058
Asta 25 (56-86)	55	minimi	0.00	0.33908	-3.35874	-87.39384	-1.0835	10.18533	-1.449
Asta 25 (56-86)	55	minimi	166.00	-0.05011	-0.05753	2.22646	-1.08349	-53.25431	1.185
Asta 25 (56-86)	55	minimi	332.00	-0.43968	2.76239	83.45154	-1.08349	16.42971	-1.251
Asta 26 (91-61)	56	massimi	0.00	-0.52109	3.00684	-14.42533	0.34193	-4.67586	0.995
Asta 26 (91-61)	56	massimi	166.00	-0.45771	-0.11109	-0.95028	0.34193	-15.67783	-1.252

Asta 26 (91-61)	56	massimi	332.00	-0.39785	-3.06488	14.22711	0.34193	-7.33843	1.45
Asta 26 (91-61)	56	minimi	0.00	-0.59475	2.66104	-15.19406	0.30448	-5.06027	0.854
Asta 26 (91-61)	56	minimi	166.00	-0.51322	-0.11814	-1.03313	0.30448	-16.66399	-1.399
Asta 26 (91-61)	56	minimi	332.00	-0.43563	-3.38297	13.51088	0.30448	-7.93983	1.34
Asta 34 (86-91)	64	massimi	0.00	-4.77804	-0.85663	-35.42075	-6.22882	-42.41733	-1.171
Asta 34 (86-91)	64	massimi	204.50	-1.30203	-0.46567	16.30469	-6.22881	-42.32902	0.152
Asta 34 (86-91)	64	massimi	409.00	2.18928	-0.34089	24.19652	-6.22881	-7.77919	1.079
Asta 34 (86-91)	64	minimi	0.00	-5.63629	-0.93903	-37.74209	-6.72639	-46.05357	-1.312
Asta 34 (86-91)	64	minimi	204.50	-1.71353	-0.53478	15.05661	-6.72639	-45.45585	0.138
Asta 34 (86-91)	64	minimi	409.00	2.15881	-0.39887	22.76972	-6.72638	-8.43789	0.933
Asta 48 (146-141)	78	massimi	0.00	9.03638	-0.17969	-27.01427	-3.75007	-18.85359	0.036
Asta 48 (146-141)	78	massimi	165.00	4.47398	-0.73644	-2.72952	-3.75008	-61.01808	0.446
Asta 48 (146-141)	78	massimi	330.00	-0.05451	-3.71305	212.19267	-3.75008	74.62881	4.25
Asta 48 (146-141)	78	minimi	0.00	8.25077	-0.21828	-27.54842	-3.79413	-20.655	-0.063
Asta 48 (146-141)	78	minimi	165.00	4.07746	-0.8532	-3.00781	-3.79414	-65.02244	0.437
Asta 48 (146-141)	78	minimi	330.00	-0.06495	-4.18789	197.90452	-3.79414	69.45474	3.808
Asta 50 (156-146)	80	massimi	0.00	3.241	0.82698	-137.90156	-6.6581	21.7481	-0.383
Asta 50 (156-146)	80	massimi	190.00	2.33066	0.26027	23.17393	-6.65811	-54.47968	-1.644
Asta 50 (156-146)	80	massimi	380.00	1.44374	-2.99406	25.56645	-6.65811	4.40394	0.497
Asta 50 (156-146)	80	minimi	0.00	2.94987	0.73771	-148.43578	-7.27614	20.26945	-0.412
Asta 50 (156-146)	80	minimi	190.00	2.10932	0.21572	21.32059	-7.27614	-58.28111	-1.831
Asta 50 (156-146)	80	minimi	380.00	1.28997	-3.24072	24.94743	-7.27615	4.36906	0.454

1.4.11 Stato limite salvaguardia della vita (SLV) - Fondazione A2

1.4.11.1 Cinematismi nodali

Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	5.942395	3.746894	-0.377931	0.008253515126204	0.01310014704928	0.000188211168036
1	minimi	-5.939482	-3.720593	-13.137798	-0.00798652089992	-0.012911419398605	-0.000191732041393
2	massimi	3.000222	1.951502	-0.377931	0.008253515126059	0.013100147048979	0.00018821116795
2	minimi	-3.039772	-1.865128	-13.137798	-0.00798652089978	-0.012911419398311	-0.000191732041306
3	massimi	2.820066	2.125737	15.959063	0.007908970814844	0.012459763817202	0.000157904125514
3	minimi	-2.862387	-2.036436	-29.198667	-0.007746954342621	-0.012092877526437	-0.000160556219354
4	massimi	2.815902	1.747844	2.791442	0.007942433046086	0.012413984553931	0.00016318703205
4	minimi	-2.858592	-1.665755	-16.479144	-0.007781966095161	-0.012422527567266	-0.000166325800219
5	massimi	3.14584	1.752071	13.003811	0.007947233877007	0.012382640330783	0.000156636784249
5	minimi	-3.181724	-1.670084	-26.126881	-0.007593684765858	-0.012388703969805	-0.000159868443604
6	massimi	3.141637	2.121419	12.842488	0.008005511704174	0.012491145421434	0.000151352542188
6	minimi	-3.177891	-2.032017	-25.51746	-0.007653512114322	-0.012126738504983	-0.000154097527215
7	massimi	51.842538	49.217966	-0.364054	0.014573182509247	0.017501044192292	0.002271607281659
7	minimi	-51.374792	-49.335968	-13.494633	-0.014159134504849	-0.017060213542114	-0.002246678373679
8	massimi	91.213435	83.31343	-0.364972	0.022495672942765	0.025417288977172	0.00382689181589
8	minimi	-90.440043	-83.487218	-13.669661	-0.022583316056874	-0.025362034609283	-0.003783469423071
9	massimi	120.059942	104.807122	-0.363992	0.01495777606731	0.024068482150355	0.004887277708176
9	minimi	-119.043433	-105.177787	-13.790653	-0.01444018065977	-0.023671111771872	-0.004830870528128
10	massimi	167.587626	151.746128	-0.343851	0.01740050633988	0.005075905412061	0.007046687480867
10	minimi	-165.879061	-152.521602	-13.976811	-0.017066459821081	-0.003912965568128	-0.006875369494559
11	massimi	5.990891	3.249477	-0.35143	0.00705236563294	0.013065494721588	0.000155215301609
11	minimi	-5.89519	-3.139719	-13.915413	-0.006772589538275	-0.012975920672222	-0.00014437537268
12	massimi	3.056557	1.73177	-0.35143	0.007052365632817	0.013065494721291	0.000155215301538
12	minimi	-2.98101	-1.559061	-13.915413	-0.006772589538156	-0.012975920671925	-0.000144375372614
13	massimi	2.92063	1.679995	4.145219	0.006770933724172	0.01257164416252	0.000134208521685
13	minimi	-2.835308	-1.519809	-18.245725	-0.006603160082118	-0.012286876325716	-0.000124753336769
14	massimi	2.921618	1.769135	13.619296	0.006771427922549	0.012236300638826	0.000131549002444
14	minimi	-2.837036	-1.586623	-27.932478	-0.006604389714552	-0.012350991323917	-0.00012306693385
15	massimi	3.152147	1.768442	13.842455	0.006805930600044	0.012241477843244	0.000125442286846
15	minimi	-3.08664	-1.585738	-27.563975	-0.006434345085254	-0.012353570453347	-0.000116782783698
16	massimi	3.153178	1.679767	9.20923	0.006806294429947	0.012566496636683	0.000128168369884
16	minimi	-3.088411	-1.519773	-22.718073	-0.006435444349214	-0.012284326874868	-0.000118535750412
17	massimi	51.851979	41.419564	-0.330443	0.012277569552258	0.017220940581172	0.002327988840636
17	minimi	-51.365351	-41.096606	-14.29941	-0.011769115284393	-0.017310724928935	-0.002190296814702
18	massimi	91.307095	68.477501	-0.325538	0.016580760827045	0.025594679791296	0.00392544168261
18	minimi	-90.346383	-67.979739	-14.488161	-0.016837858803073	-0.025197055634363	-0.003684919556351
19	massimi	120.20688	83.850868	-0.3204	0.012577175764932	0.023876914719738	0.005015435110119
19	minimi	-118.896494	-83.551518	-14.618857	-0.011803863331219	-0.023841603547032	-0.004702713126185
20	massimi	167.512724	130.553844	-0.320852	0.017672549117684	0.004000456860021	0.007089829515353
20	minimi	-165.953963	-130.893671	-14.789659	-0.017156887625568	-0.004997427217775	-0.006832227460074
21	massimi	5.085109	3.776037	-3.394197	0.006505405208922	0.010598976830209	0.000233488906012
21	minimi	-5.10901	-3.758741	-13.364182	-0.006377589228966	-0.010286138379271	-0.000230172950663
22	massimi	2.702023	2.345158	-3.394197	0.006505405208808	0.010598976829973	0.000233488905905
22	minimi	-2.796312	-2.299103	-13.364182	-0.006377589228854	-0.010286138379047	-0.000230172950557
23	massimi	2.52116	2.519265	11.48616	0.006182976175041	0.010099636604251	0.000194876200274
23	minimi	-2.611693	-2.477137	-27.581357	-0.006180928816407	-0.00956395789676	-0.000191865067952

24	massimi	2.517386	2.142492	-0.078068	0.006201904679682	0.010025009857174	0.000201298788874
24	minimi	-2.608115	-2.093235	-16.759903	-0.006202425836264	-0.009966692107792	-0.000198547152539
25	massimi	2.880162	2.143963	2.907203	0.006322282446624	0.010000562253035	0.000195331866959
25	minimi	-2.976756	-2.094946	-19.474872	-0.006075690550604	-0.009941057572902	-0.000192801685833
26	massimi	2.875331	2.515846	7.502978	0.006355527520541	0.010124098497888	0.000188906218464
26	minimi	-2.972123	-2.473477	-23.327873	-0.006111504139737	-0.009589606721148	-0.000186116541351
27	massimi	42.099575	49.219832	-3.469336	0.010475111438478	0.014606108693688	0.002305202732886
27	minimi	-41.03619	-49.334102	-13.729449	-0.010265730133979	-0.013673427417893	-0.002213082922452
28	massimi	74.772179	83.283073	-3.511617	0.024411763524147	0.020523102428066	0.003888986276538
28	minimi	-73.178611	-83.517576	-13.889764	-0.024395001568214	-0.020658852497702	-0.003721374962424
29	massimi	98.765313	104.808523	-3.539649	0.010899567562049	0.020188855885482	0.004969382111607
29	minimi	-97.3707	-105.176386	-14.000456	-0.010665838547092	-0.020239734492323	-0.004748766124696
30	massimi	138.029631	151.760869	-3.578373	0.013437673021447	0.004512057059933	0.007118489100992
30	minimi	-133.821171	-152.506861	-14.210759	-0.013166398477103	-0.001952591260555	-0.006803567874435
31	massimi	5.410907	3.283142	-8.940173	0.005727403022625	0.010635435934923	0.000224311460405
31	minimi	-5.313717	-3.184324	-11.846918	-0.005538005359527	-0.010380894110923	-0.000213943611471
32	massimi	3.020043	2.04256	-8.940173	0.005727403022525	0.010635435934694	0.000224311460302
32	minimi	-2.980124	-1.901127	-11.846918	-0.005538005359429	-0.010380894110701	-0.000213943611373
33	massimi	2.84686	1.993796	3.051137	0.005437420358795	0.010234386479184	0.0001918207952
33	minimi	-2.797429	-1.864194	-23.19438	-0.005409265104897	-0.009689643036047	-0.000182806328186
34	massimi	2.847739	2.079351	2.513558	0.005437681137156	0.009959483099363	0.000189347618306
34	minimi	-2.798912	-1.928313	-23.261162	-0.005411615760043	-0.010020919728496	-0.000181130049311
35	massimi	3.176893	2.078559	1.203412	0.005588718980981	0.009964004253397	0.000183070893148
35	minimi	-3.146414	-1.927419	-21.550483	-0.005250156799377	-0.010023682085617	-0.000174759568585
36	massimi	3.177967	1.993903	5.252622	0.005589022386283	0.010229870928748	0.000185534965784
36	minimi	-3.148093	-1.864402	-24.995333	-0.005252550081463	-0.009686886282523	-0.000176426743202
37	massimi	42.107811	41.422521	-9.172202	0.008686659485474	0.010826577022245	0.002358446935138
37	minimi	-41.027954	-41.09365	-12.179251	-0.008245186020049	-0.010540375391086	-0.0021598387202
38	massimi	75.246677	68.433376	-9.280998	0.018154608206636	0.022233638012389	0.003994973488362
38	minimi	-72.704114	-68.023864	-12.299038	-0.018355671091984	-0.021096046015727	-0.003615387750599
39	massimi	100.152383	83.854649	-9.355655	0.00929141509129	0.019507805494435	0.005112401649302
39	minimi	-95.983631	-83.547737	-12.38135	-0.008774086528579	-0.018246685473103	-0.004605746587002
40	massimi	137.991552	130.5734	-9.486749	0.013530223643286	0.00265186635998	0.007151636681816
40	minimi	-133.859251	-130.874114	-12.499898	-0.013018492872374	-0.004501919261691	-0.006770420293611
41	massimi	5.426054	4.943713	4.011828	0.008826733288669	0.009864309768199	0.000419630815605
41	minimi	-5.295375	-4.66678	-25.239474	-0.009025275314403	-0.009713426788622	-0.000383915186604
42	massimi	3.953641	3.590853	4.011828	0.008826733288533	0.009864309768176	0.000419630815474
42	minimi	-3.845594	-3.343701	-25.239474	-0.009025275314264	-0.009713426788599	-0.000383915186484
43	massimi	3.725578	3.482669	-1.074392	0.0086759907359	0.009871818759817	0.00039495379747
43	minimi	-3.596458	-3.257493	-19.734947	-0.009007308691824	-0.00958749653219	-0.000361963502941
44	massimi	3.72811	3.676262	10.186705	0.008675571013737	0.009556129031508	0.00038691702092
44	minimi	-3.599374	-3.408773	-31.189137	-0.009007288588788	-0.009543284892984	-0.000354738073295
45	massimi	4.154557	3.675576	10.522881	0.008708981383772	0.009562967525754	0.000375008758309
45	minimi	-4.067917	-3.40792	-31.779399	-0.00876829540473	-0.009550649233093	-0.000342475117809
46	massimi	4.157161	3.483328	4.920449	0.00870850480437	0.009865006508098	0.000383131366934
46	minimi	-4.070905	-3.258319	-25.983874	-0.008768218444454	-0.009580158434606	-0.00034978637953
47	massimi	42.109364	43.397451	4.090286	0.004197271309606	0.001492986376726	0.00235939956057
47	minimi	-41.026401	-41.370592	-25.65438	-0.003189893955289	-0.001982272971855	-0.002158886094768
48	massimi	75.810311	71.30505	4.103473	0.019543404367646	0.028768395286299	0.004017089364759
48	minimi	-72.140479	-67.141915	-25.779444	-0.021485784369757	-0.026980093086596	-0.003593271874202
49	massimi	100.128202	87.007249	4.114149	0.005700319306949	0.003369499686125	0.005149376829569
49	minimi	-96.007812	-81.643282	-25.865317	-0.004917951485152	-0.005191430815696	-0.004568771406735
50	massimi	4.05818	3.790571	-4.796658	0.006291289473198	0.008682170768555	0.000264646791568
50	minimi	-4.058447	-3.784397	-12.355948	-0.006264935421192	-0.008217479277206	-0.000262237725077
51	massimi	2.106932	2.382814	-4.796658	0.006291289473088	0.00868217076836	0.000264646791447
51	minimi	-2.211755	-2.370709	-12.355948	-0.006264935421082	-0.008217479277027	-0.000262237724957
52	massimi	2.04277	2.57689	7.503215	0.005989328602282	0.008304606281357	0.0002199648052
52	minimi	-2.144667	-2.567517	-23.693831	-0.006087547365957	-0.007618959756363	-0.000217794704899
53	massimi	2.041097	2.173318	-0.383621	0.005993321197429	0.008180545177531	0.000226527191801
53	minimi	-2.143046	-2.158672	-16.910314	-0.00609535524392	-0.007983866980057	-0.000224425292858
54	massimi	2.258189	2.173622	0.843217	0.006118649041738	0.008167101508339	0.000222306885698
54	minimi	-2.36449	-2.159245	-18.08142	-0.005965878294979	-0.00797017858063	-0.00022045118012
55	massimi	2.254427	2.574879	5.569329	0.006137992593871	0.008318048359099	0.00021574102686
55	minimi	-2.360779	-2.565238	-21.704212	-0.005989037129928	-0.007632646564339	-0.000213817119923
56	massimi	34.220868	49.223299	-4.913878	0.010449847579572	0.011770781573835	0.002287448278184
56	minimi	-32.639494	-49.330636	-12.689794	-0.010407870765349	-0.010652666355475	-0.002230837377154
57	massimi	60.188317	83.271023	-4.974054	0.024451061562559	0.016733504704843	0.003866592957438
57	minimi	-57.586693	-83.529626	-12.838063	-0.024354549768997	-0.016551569067834	-0.003743768281524
58	massimi	79.310594	104.809711	-5.014618	0.010813676807598	0.016465185649827	0.004943731717504

58	minimi	-76.464495	-105.175198	-12.94033	-0.010759301109976	-0.016170870965608	-0.004774416518799
59	massimi	111.313123	151.783106	-5.074	0.01336055103885	0.003944489632112	0.007053589783197
59	minimi	-104.726033	-152.484623	-13.132413	-0.013266171215051	-0.001157607191217	-0.00686846719223
60	massimi	4.247661	3.306562	-9.908365	0.005588733788742	0.008458973398088	0.000277953013083
60	minimi	-4.14927	-3.228697	-13.15425	-0.005583154131294	-0.008103737988388	-0.000273144646467
61	massimi	2.347014	2.05283	-9.908365	0.005588733788644	0.008458973397905	0.000277953012955
61	minimi	-2.328552	-1.973709	-13.15425	-0.005583154131196	-0.008103737988215	-0.000273144646341
62	massimi	2.27937	1.995288	0.592297	0.005291232441102	0.008183937961265	0.000235585146578
62	minimi	-2.256466	-1.921761	-22.632211	-0.005458198094389	-0.007508234235521	-0.000231366278145
63	massimi	2.277928	2.099837	-0.288685	0.005291117925509	0.007877451669122	0.000233414007875
63	minimi	-2.255363	-2.016368	-22.594666	-0.005461009214894	-0.007878658404999	-0.000229640941468
64	massimi	2.50906	2.099479	-1.434121	0.005468316046699	0.007870469282058	0.000228929454787
64	minimi	-2.494946	-2.015963	-21.437431	-0.00528768282502	-0.007871624203756	-0.000225113025026
65	massimi	2.509825	1.99523	1.830238	0.005468245104358	0.008190906775414	0.000231104152172
65	minimi	-2.496049	-1.921749	-23.858353	-0.005290528488777	-0.007515254863848	-0.000226841920385
66	massimi	34.231654	41.42881	-10.174879	0.008748176549491	0.010040191103304	0.00232240288219
66	minimi	-32.628708	-41.087361	-13.523157	-0.008650250098626	-0.009321817677078	-0.002195882773149
67	massimi	60.737769	68.420121	-10.275017	0.018226783413384	0.017956728572825	0.003915819145909
67	minimi	-57.03724	-68.037119	-13.680003	-0.018274043055609	-0.016503958108294	-0.003694542093052
68	massimi	80.805236	83.860711	-10.343781	0.009072126085992	0.01620879381601	0.005002978380175
68	minimi	-74.969852	-83.541675	-13.78815	-0.008881179816009	-0.014456676588128	-0.004715169856129
69	massimi	111.280987	130.606085	-10.408079	0.013491368209752	0.001947790291818	0.007061539436947
69	minimi	-104.758169	-130.84143	-13.977841	-0.013274561104344	-0.003678709045626	-0.00686051753848
70	massimi	4.256874	4.903062	-0.143367	0.004966103006305	0.007925648727896	0.000319558832792
70	minimi	-4.109885	-4.676634	-25.927335	-0.004968845736693	-0.007427415842362	-0.000309965486798
71	massimi	3.075161	4.166156	-0.143367	0.004966103006229	0.007925648727875	0.000319558832692
71	minimi	-3.002907	-3.940139	-25.927335	-0.004968845736617	-0.007427415842346	-0.000309965486701
72	massimi	3.071005	4.097328	-3.222482	0.004808349532825	0.007955562617417	0.000300756341298
72	minimi	-2.99311	-3.87771	-22.285851	-0.004979280423489	-0.007296037795807	-0.000291703974431
73	massimi	3.070656	4.208333	4.270984	0.004808163063524	0.007654192193992	0.000292902943512
73	minimi	-2.993111	-3.977417	-30.416936	-0.004980413542327	-0.007332439627629	-0.000284592541356
74	massimi	3.1693	4.208076	4.202768	0.004972879904531	0.007652315238207	0.000285568857992
74	minimi	-3.102815	-3.977048	-30.352229	-0.004806031275724	-0.007330569936066	-0.000277021261001
75	massimi	3.171763	4.097587	-3.526662	0.004972616440295	0.007957432158291	0.000293397249729
75	minimi	-3.105629	-3.878081	-21.985182	-0.004807087399628	-0.007297900072458	-0.000284107688027
76	massimi	34.236326	43.403332	-0.139688	0.001841720677764	0.002037204263373	0.0023122634589
76	minimi	-32.624036	-41.364711	-26.363431	-0.001088781586547	-0.002754167536134	-0.002206022196439
77	massimi	61.426363	71.330578	-0.131513	0.020984091897522	0.023260291157159	0.003938631931766
77	minimi	-56.348647	-67.116387	-26.535204	-0.022839600044671	-0.020815437356787	-0.003671729307196
78	massimi	80.773766	87.024699	-0.124487	0.00226967435236	0.002655905817411	0.005048927823518
78	minimi	-75.001322	-81.625832	-26.653741	-0.00161169981679	-0.005013764416552	-0.004669220412786
79	massimi	3.828371	3.799304	-4.973802	0.00628666056997	0.008310688002116	0.00024618630682
79	minimi	-3.85718	-3.801635	-12.175765	-0.006276021794504	-0.007859998115181	-0.000255572620672
80	massimi	1.960851	2.388769	-4.973802	0.006286660569859	0.008310688001927	0.000246186306707
80	minimi	-2.091065	-2.388706	-12.175765	-0.006276021794394	-0.007859998115008	-0.000255572620555
81	massimi	1.927903	2.575851	5.890183	0.005998376280768	0.007961586393924	0.000203669075247
81	minimi	-2.06583	-2.566205	-22.07785	-0.006111755162087	-0.007289353874742	-0.000211358744382
82	massimi	1.927796	2.185798	-0.037586	0.005988066897382	0.007818247992847	0.000210301721262
82	minimi	-2.065723	-2.195318	-17.220157	-0.006105146103354	-0.007634741087461	-0.000217991748047
83	massimi	1.981715	2.185026	-0.062632	0.006114992327381	0.007815130617631	0.000207753745713
83	minimi	-2.102484	-2.194879	-17.172612	-0.005977431399589	-0.00763152491795	-0.000215749603581
84	massimi	1.980677	2.575205	6.030295	0.006118345775373	0.0079647044435	0.000201116851669
84	minimi	-2.101446	-2.565227	-22.195464	-0.005984485172234	-0.007292570718615	-0.000209112351888
85	massimi	32.577809	49.227473	-5.095142	0.010432554265982	0.011092771161675	0.002230101444631
85	minimi	-31.038748	-49.326462	-12.50526	-0.010403039504498	-0.009962828850323	-0.002288184210708
86	massimi	56.670914	83.27273	-5.156434	0.024456926039994	0.015673283993227	0.003758438181547
86	minimi	-54.052245	-83.527919	-12.652336	-0.024352514830191	-0.015444282248412	-0.003851923057414
87	massimi	74.065652	104.8115	-5.197789	0.010805365027068	0.015483500266757	0.004799903279973
87	minimi	-71.132734	-105.173409	-12.753759	-0.010763976215919	-0.015132632303604	-0.004918244956331
88	massimi	104.73805	151.804139	-5.258957	0.01334795914761	0.003909944451988	0.006915546617571
88	minimi	-97.917688	-152.463591	-12.943858	-0.013281221571099	-0.001085819574107	-0.007006510357856
89	massimi	3.984746	3.320581	-9.706438	0.005579479055835	0.008111554052999	0.000249072137357
89	minimi	-3.92368	-3.263764	-13.756308	-0.005662112343126	-0.007760687499072	-0.000252464387911
90	massimi	2.16277	2.047216	-9.706438	0.005579479055738	0.008111554052821	0.000249072137242
90	minimi	-2.18065	-2.008992	-13.756308	-0.005662112343027	-0.007760687498905	-0.000252464387796
91	massimi	2.12904	2.010668	0.538454	0.005285404483388	0.007854781839879	0.000210457222021
91	minimi	-2.149819	-1.969244	-22.87899	-0.005540581424346	-0.007177266602634	-0.000213162945661
92	massimi	2.128615	2.073786	-1.58292	0.005282858435657	0.007546982969714	0.000208458018914
92	minimi	-2.149557	-2.039363	-21.590681	-0.00554091611289	-0.007558296505199	-0.000211379118216

93	massimi	2.180603	2.073633	-1.9661	0.005461066957813	0.007544124735582	0.000205795326862
93	minimi	-2.195182	-2.039255	-21.382251	-0.005362094526514	-0.007556205625681	-0.000208758419046
94	massimi	2.18026	2.010694	0.634953	0.005461614697174	0.007857616927	0.000207795846455
94	minimi	-2.195002	-1.969224	-23.150239	-0.005365523002149	-0.007179334335142	-0.000210543562977
95	massimi	32.585316	41.436505	-9.966605	0.008646967581634	0.009441373026653	0.002289757116086
95	minimi	-31.031242	-41.079665	-14.141918	-0.008678538731485	-0.008646891450784	-0.002228528539252
96	massimi	57.222001	68.416389	-10.063303	0.018259273394973	0.016847341218518	0.003844866030375
96	minimi	-53.501158	-68.040852	-14.30556	-0.01824637920387	-0.015373277727803	-0.003765495208586
97	massimi	75.552681	83.86891	-10.129706	0.008995410084986	0.01529208007485	0.004905128615041
97	minimi	-69.645705	-83.533476	-14.418424	-0.008946944237082	-0.013471825499764	-0.004813019621263
98	massimi	104.705909	130.638584	-10.190445	0.013425455993855	0.001898540198144	0.006938259714234
98	minimi	-97.94983	-130.80893	-14.612839	-0.013309213408955	-0.00359135927521	-0.006983797261193
99	massimi	3.949702	4.760244	-0.783972	0.005852163683301	0.006631953356163	0.000676908875647
99	minimi	-3.833371	-4.635851	-27.638607	-0.006419718774793	-0.006642189737846	-0.000669761427429
100	massimi	2.961346	3.798293	-0.783972	0.005852163683211	0.006631953356159	0.000676908875435
100	minimi	-2.84348	-3.759033	-27.638607	-0.006419718774694	-0.006642189737837	-0.00066976142722
101	massimi	2.610608	3.700895	-3.547491	0.005683826651631	0.006668906520662	0.000628022130657
101	minimi	-2.488852	-3.665925	-24.253801	-0.006427605161797	-0.006494877791013	-0.000621594796331
102	massimi	2.610479	3.873168	2.5323	0.005683957318689	0.006392993729776	0.000621279911592
102	minimi	-2.488784	-3.829879	-30.320492	-0.006427708717422	-0.00658718317175	-0.000614981457916
103	massimi	3.295337	3.873153	3.010556	0.005842192266885	0.006390573265661	0.000613851850183
103	minimi	-3.182082	-3.829682	-31.525081	-0.006216249414875	-0.006586265898188	-0.000607166467591
104	massimi	3.295295	3.700846	-3.383709	0.005842269305647	0.006671313332344	0.000620610400152
104	minimi	-3.182101	-3.666059	-25.143916	-0.006216299342204	-0.006495781412141	-0.000613796136911
105	massimi	32.585543	43.415961	-0.78514	0.001039820370032	0.002362710791275	0.002238249660993
105	minimi	-31.031015	-41.352082	-28.131134	-0.000983177661381	-0.002813313249426	-0.002280035994345
106	massimi	57.838288	71.265427	-0.786505	0.013411732709295	0.020623042980089	0.003433430498477
106	minimi	-52.884871	-67.181538	-28.365957	-0.013774487004455	-0.018406371103116	-0.004176930740484
107	massimi	75.514657	87.058897	-0.775415	0.002860493357025	0.002842827507689	0.004858680237219
107	minimi	-69.683729	-81.591633	-28.490923	-0.003001045572963	-0.004872567373512	-0.004859467999084
108	massimi	0.93532	0.770859	-0.362494	0.000773042557881	-0.000456220816275	0.00009599015984
108	minimi	-0.791942	-0.750301	-2.658344	-0.001659755524273	-0.00163518203223	-0.000086096821848
109	massimi	32.730094	44.399969	-0.426906	0.021306086046258	0.017621048186843	0.002185486591646
109	minimi	-30.622171	-42.841437	-2.786715	-0.021585894166446	-0.01575914299504	-0.002332799063692
110	massimi	56.332572	74.306871	-0.470029	0.0102597828776	0.004910922111293	0.003674688436752
110	minimi	-53.297616	-72.68478	-2.875962	-0.010038946828027	-0.006696722588679	-0.00393567280221
111	massimi	0.918695	0.814625	0.659415	0.001186932294055	0.001218851630924	0.000101646481041
111	minimi	-0.776971	-0.812943	-1.653959	-0.001576813285069	-0.000634190908128	-0.00009157250073
112	massimi	33.36568	51.28319	0.649576	0.024693067733704	0.016181562830209	0.002239609539625
112	minimi	-29.986585	-50.513294	-1.727561	-0.024830610784215	-0.015143491169125	-0.002278676115713
113	massimi	56.323638	85.722548	0.645988	0.012682261458587	0.008877942706409	0.003767881130277
113	minimi	-53.30655	-85.05751	-1.777281	-0.012399962240725	-0.010754719748637	-0.003842480108684
114	massimi	1.014896	4.64139	-1.124368	0.003536811270707	-0.000714043542972	0.000363074533735
114	minimi	-0.87402	-4.580959	-26.287701	-0.003800943748565	-0.004029523807565	-0.000379037409968
115	massimi	32.28176	43.420635	-0.702719	0.000944011205162	0.002405502057926	0.002161039674337
115	minimi	-31.070504	-41.347408	-28.02368	-0.001266760277233	-0.002944866145365	-0.002357245981001
116	massimi	56.358415	71.255215	-1.625376	0.005494183589195	0.011249665302762	0.003632484425008
116	minimi	-53.271773	-67.19175	-28.45065	-0.005727593917891	-0.010615231250651	-0.003977876813953
117	massimi	3.679968	3.803535	-4.451184	0.006287367171461	0.008317873835039	0.000256246631575
117	minimi	-3.791958	-3.81306	-12.513649	-0.006319377656094	-0.008055065733667	-0.000283025756923
118	massimi	1.811125	2.383163	-4.451184	0.006287367171351	0.008317873834846	0.000256246631457
118	minimi	-1.982247	-2.399889	-12.513649	-0.006319377655983	-0.008055065733486	-0.000283025756793
119	massimi	1.84934	2.628069	5.689545	0.005999818884062	0.007971599757334	0.000211072101708
119	minimi	-2.043836	-2.617068	-21.875698	-0.006153513088869	-0.007480874207229	-0.000233293650003
120	massimi	1.852584	2.123248	0.417884	0.005991260007317	0.007821902339472	0.000217852094312
120	minimi	-2.047008	-2.167439	-17.228024	-0.006147111960333	-0.007813625671072	-0.000239979396662
121	massimi	1.78769	2.12143	-0.080661	0.006113163084697	0.007836408272494	0.000217157475404
121	minimi	-1.933234	-2.166058	-16.797175	-0.006018937570144	-0.007828428861359	-0.000239686688739
122	massimi	1.787916	2.628839	6.958607	0.00610493430656	0.007957138970146	0.000210373406225
122	minimi	-1.933388	-2.617401	-23.212456	-0.006012866540215	-0.007466116162777	-0.000232996865506
123	massimi	32.440346	49.232125	-4.558916	0.010294891608699	0.011030431658886	0.002199106959147
123	minimi	-31.51509	-49.32181	-12.851219	-0.01035065871749	-0.010050788141044	-0.002319178696192
124	massimi	56.039329	83.268088	-4.614879	0.024504885340367	0.01532819192936	0.0037235412903
124	minimi	-54.352131	-83.532561	-13.000414	-0.024358322000739	-0.015278435161754	-0.003886819948661
125	massimi	72.624732	104.813702	-4.652512	0.010687934050118	0.015158860096512	0.004762266401701
125	minimi	-70.85616	-105.171207	-13.103304	-0.010740444393555	-0.01497744547538	-0.004955881834603
126	massimi	103.451977	151.822279	-4.710821	0.013166284691102	0.003992841798896	0.006849755063039
126	minimi	-98.196903	-152.445451	-13.295069	-0.013188858774473	-0.001244068395665	-0.007072301912388
127	massimi	3.733807	3.32638	-9.281375	0.005493400842479	0.008136452554281	0.00025694514286

127	minimi	-3.732948	-3.289361	-13.683635	-0.00568196752185	-0.007950237817254	-0.00026178161805
128	massimi	1.906664	2.053025	-9.281375	0.005493400842382	0.008136452554096	0.000256945142742
128	minimi	-1.947704	-2.058434	-13.683635	-0.005681967521751	-0.007950237817075	-0.00026178161793
129	massimi	1.939513	1.974867	0.3089	0.00520563330563	0.00788359217022	0.00021679080647
129	minimi	-1.984712	-1.975261	-22.249361	-0.00559388852827	-0.007370805948832	-0.000220798984432
130	massimi	1.940858	2.118515	-0.400992	0.005205179702615	0.007565443305261	0.000213414755123
130	minimi	-1.986034	-2.128853	-21.981599	-0.005560464137481	-0.00772465756799	-0.000217392458968
131	massimi	1.866103	2.118596	-1.258091	0.00537074359542	0.007575793589279	0.000212810302334
131	minimi	-1.902461	-2.129038	-21.523275	-0.005378486913008	-0.007736758932184	-0.00021688439502
132	massimi	1.86584	1.974971	1.090226	0.005370285116161	0.007873276545389	0.000216132252653
132	minimi	-1.902175	-1.975262	-23.429462	-0.005379557321418	-0.007358739243824	-0.000220236819455
133	massimi	32.437067	41.444541	-9.529915	0.008388469205963	0.009294322343426	0.00226433105203
133	minimi	-31.51837	-41.071629	-14.065754	-0.008627922570336	-0.008730151694938	-0.002253954603308
134	massimi	56.498111	68.409337	-9.618961	0.018330676667044	0.01647280119096	0.003781672879096
134	minimi	-53.893349	-68.047903	-14.230254	-0.018223243784341	-0.015253355801472	-0.0038286883529865
135	massimi	73.989213	83.877814	-9.679979	0.008829739786821	0.014958702369216	0.004815418147202
135	minimi	-69.491679	-83.524572	-14.343733	-0.0089958638903	-0.013315276628831	-0.004902730089102
136	massimi	103.417119	130.667187	-9.73285	0.013118866799102	0.002022221210867	0.006869969426928
136	minimi	-98.23176	-130.780328	-14.54278	-0.013168562887772	-0.003709710117468	-0.007052087548499
137	massimi	3.4901	4.522752	-0.594351	0.007711511791995	0.005137534986436	0.000884676804372
137	minimi	-3.405976	-4.528393	-25.998671	-0.00853759071745	-0.00620703144382	-0.000869226123955
138	massimi	2.722411	3.242511	-0.594351	0.007711511791876	0.005137534986447	0.000884676804095
138	minimi	-2.477863	-3.372064	-25.998671	-0.008537590717318	-0.006207031443806	-0.000869226123684
139	massimi	2.204993	3.167435	-2.691967	0.007526641077588	0.005183533070027	0.000816487943217
139	minimi	-1.952168	-3.305557	-23.809931	-0.008513981690575	-0.006065385251448	-0.000802929071971
140	massimi	2.20488	3.304419	3.167044	0.007528640410876	0.004935110831967	0.000814618765982
140	minimi	-1.951854	-3.424543	-28.300244	-0.008513148423123	-0.006159648494746	-0.000800634599908
141	massimi	3.226077	3.304671	3.883447	0.007659444513858	0.004936860446382	0.000806556219351
141	minimi	-2.991629	-3.424416	-30.073829	-0.008301911745042	-0.006163586009607	-0.000791769254107
142	massimi	3.226873	3.167051	-2.275719	0.007661411111148	0.005181819959847	0.000808433481454
142	minimi	-2.992223	-3.305553	-25.283361	-0.008301045741923	-0.006061484240822	-0.000794071811039
143	massimi	32.429662	43.42547	-0.594204	0.000233087271422	0.002472636705393	0.002260016864538
143	minimi	-31.525774	-41.342573	-26.488946	-0.001275089102438	-0.003103810031709	-0.0022582687908
144	massimi	56.918715	71.245394	-0.634063	0.008257077337536	0.018898678591896	0.003733839693947
144	minimi	-53.472745	-67.201571	-26.728082	-0.009225215550699	-0.017049028322172	-0.003876521545014
145	massimi	73.938003	87.135697	-0.61911	0.002670745236139	0.002830673109957	0.004879352345372
145	minimi	-69.542888	-81.514834	-26.848476	-0.003828219517977	-0.004883226294794	-0.004838795890932
146	massimi	1.424296	0.77091	-0.246433	0.0016620312642	-0.000459539295335	0.000146453964441
146	minimi	-1.301453	-0.750277	-2.639025	-0.000917004063361	-0.001578136279618	-0.000145743008089
147	massimi	33.314786	43.720644	-0.299877	0.021031022701837	0.017825268639367	0.002191349021088
147	minimi	-31.365771	-43.520762	-2.772726	-0.021672679297476	-0.016018889312877	-0.00232693663425
148	massimi	57.287172	74.305647	-0.335049	0.010065199158868	0.005029205894595	0.003688109637767
148	minimi	-54.273539	-72.686005	-2.865846	-0.010807788735996	-0.006558401418434	-0.003922251601194
149	massimi	1.385757	0.814318	0.981089	0.001663378949065	0.001202862285606	0.000167767749404
149	minimi	-1.263633	-0.812329	-1.919333	-0.001333526697103	-0.000634045694295	-0.000168334248241
150	massimi	34.01282	50.861437	0.988522	0.02461014596522	0.01633078713659	0.002235055988966
150	minimi	-30.667737	-50.935048	-2.006869	-0.024849474873586	-0.015290396805555	-0.002283229666372
151	massimi	57.276561	85.722717	0.997372	0.012303509696164	0.00910505735244	0.00376388195468
151	minimi	-54.284151	-85.057341	-2.066613	-0.012833414392993	-0.010975498611214	-0.003846479284282
152	massimi	1.623795	4.460227	-0.386305	0.000392590217278	0.000152439668749	0.00173236239864
152	minimi	-1.506726	-4.491013	-25.135144	-0.001787522495731	-0.003986207729375	-0.001699269221742
153	massimi	32.785008	43.42714	-0.492043	0.000613864340725	0.002304647944349	0.00224128319119
153	minimi	-31.895549	-41.340903	-25.504997	-0.001967335925154	-0.003076568684867	-0.002277002464148
154	massimi	57.319139	71.240366	-0.348649	0.000697616629161	0.01370927685571	0.003569834793563
154	minimi	-54.241573	-67.2066	-26.471549	-0.001255179749454	-0.0126359973376	-0.004040526445398
155	massimi	4.068446	3.802482	-1.129431	0.008045768784835	0.008831215373722	0.000208919471218
155	minimi	-4.343674	-3.816196	-14.250218	-0.008243076565407	-0.008699470453368	-0.000200786633617
156	massimi	2.086691	1.948877	-1.129431	0.008045768784694	0.008831215373521	0.000208919471122
156	minimi	-2.391562	-2.006985	-14.250218	-0.008243076565262	-0.008699470453179	-0.000200786633525
157	massimi	2.055174	1.897561	9.30227	0.007688903239827	0.008431976854154	0.000174478098552
157	minimi	-2.350708	-1.964049	-23.929295	-0.007989292729717	-0.008091676524216	-0.000167488364082
158	massimi	2.058155	2.000456	6.698241	0.007665207005172	0.008336546060408	0.000174501601183
158	minimi	-2.35344	-2.04927	-21.638068	-0.007966678167828	-0.008426698060873	-0.000167184458725
159	massimi	2.091663	1.996912	-1.147859	0.007824519006949	0.008357644094121	0.000174677529748
159	minimi	-2.402063	-2.046505	-14.209229	-0.007902903880124	-0.008449628343357	-0.000168076429113
160	massimi	2.094778	1.900193	10.15314	0.007801170143809	0.008410587476159	0.000174632581069
160	minimi	-2.404929	-1.965902	-25.197425	-0.00788063668975	-0.008068454897449	-0.000168358888422
161	massimi	34.381875	49.2371	-1.123006	0.013318335187949	0.011336389530807	0.002334749201629
161	minimi	-33.983186	-49.316835	-14.648931	-0.013450350671893	-0.010151330893067	-0.002183536453709

162	massimi	59.564271	83.260861	-1.114529	0.022885184201904	0.016657603540643	0.003914740589677
162	minimi	-58.101757	-83.539788	-14.833452	-0.022698582266842	-0.016451642811127	-0.003695620649284
163	massimi	76.990298	104.816551	-1.10694	0.014281528698725	0.014949838441234	0.004992473847408
163	minimi	-75.180436	-105.168358	-14.961123	-0.014435262753816	-0.014501687246746	-0.004725674388896
164	massimi	109.243396	151.832942	-1.116166	0.017179400949363	0.003990064475574	0.006963680033626
164	minimi	-105.744108	-152.434788	-15.122937	-0.017268105595103	-0.00238198553403	-0.006958376941801
165	massimi	4.262725	3.329406	-5.565545	0.006670365425859	0.00854896861403	0.000339998461034
165	minimi	-4.282577	-3.30633	-14.189801	-0.007020986433313	-0.008564563136269	-0.000343871412933
166	massimi	2.345085	1.75381	-5.565545	0.006670365425742	0.008548968613844	0.000339998460878
166	minimi	-2.361428	-1.809624	-14.189801	-0.00702098643319	-0.008564563136083	-0.000343871412775
167	massimi	2.427717	1.97686	-0.137977	0.006341848310464	0.008299998231356	0.000280062574403
167	minimi	-2.44761	-2.028233	-18.752656	-0.006826189168132	-0.008030642395582	-0.000283436682422
168	massimi	2.429115	1.521081	5.094609	0.006342057436256	0.007932347280752	0.000286380591985
168	minimi	-2.448769	-1.580457	-23.948215	-0.00682627025748	-0.008231312941511	-0.000289440220233
169	massimi	2.254191	1.521661	2.896661	0.006499835630416	0.007945628427537	0.0002881212067
169	minimi	-2.267004	-1.58108	-22.491751	-0.006690636850502	-0.008247850047928	-0.000291219218193
170	massimi	2.253758	1.976859	0.331325	0.006499935834234	0.008286660778168	0.000281804453062
170	minimi	-2.266332	-2.02819	-19.963441	-0.006690609017877	-0.008014048982762	-0.000285216944326
171	massimi	34.315461	41.452683	-5.681313	0.010348546439424	0.009570199064503	0.002217204216317
171	minimi	-34.049601	-41.063487	-14.60717	-0.010827477453852	-0.009516550933757	-0.002301081439021
172	massimi	59.287541	68.415351	-5.690612	0.017219807463698	0.017357688609605	0.003727262623036
172	minimi	-58.378487	-68.041889	-14.822885	-0.017012944201809	-0.016754345176122	-0.003883098615925
173	massimi	77.037651	83.887214	-5.695565	0.011402738610445	0.014266693042091	0.004755894000259
173	minimi	-75.133083	-83.515172	-14.972396	-0.01174982593396	-0.013375118872417	-0.004962254236045
174	massimi	109.181583	130.684055	-5.696165	0.017451647193056	0.003019272192288	0.006873558443586
174	minimi	-105.805921	-130.763459	-15.148289	-0.017518683425661	-0.003833126570424	-0.007048498531841
175	massimi	4.249253	4.203562	0.564624	0.005526811015986	0.006656647219791	0.000245100453564
175	minimi	-4.199993	-4.340086	-18.461354	-0.006966337713233	-0.007000494812133	-0.000278246481209
176	massimi	3.254199	3.159875	0.564624	0.0055268110159	0.006656647219796	0.000245100453487
176	minimi	-3.153362	-3.512327	-18.461354	-0.006966337713126	-0.007000494812129	-0.000278246481122
177	massimi	3.313118	3.118503	-3.249502	0.005416486767576	0.006651279240721	0.000225944651563
177	minimi	-3.232601	-3.449996	-13.783792	-0.006947909857884	-0.006878409464632	-0.000257093547779
178	massimi	3.31397	3.181516	4.534603	0.00541863970481	0.006459135983035	0.000220945100907
178	minimi	-3.232905	-3.552591	-21.127855	-0.006949152102111	-0.006909218920007	-0.000250936971829
179	massimi	3.174204	3.18192	5.546641	0.005466616165494	0.006459049388863	0.000223781176528
179	minimi	-3.054263	-3.552837	-23.98214	-0.006771273903288	-0.006912944965289	-0.000253442021668
180	massimi	3.175119	3.118157	-0.965719	0.005468717456485	0.00665140396177	0.000228740281758
180	minimi	-3.05463	-3.449807	-17.909822	-0.006772464501271	-0.006874721546228	-0.000259558152191
181	massimi	34.303949	43.434168	0.566328	0.000185870645474	0.001642329118198	0.002088167730933
181	minimi	-34.061113	-41.333875	-18.744318	-0.002788613640552	-0.003006626338269	-0.002430117924405
182	massimi	59.788931	71.220155	0.543531	0.006645698294345	0.021929923429206	0.003388606728361
182	minimi	-57.877097	-67.226811	-18.883058	-0.008941204999892	-0.020518667765018	-0.0042217545106
183	massimi	76.989942	87.222487	0.54049	0.002297898909064	0.00182892002396	0.004427843795789
183	minimi	-75.180793	-81.428043	-18.958584	-0.004683241875495	-0.004500488736345	-0.005290304440515
184	massimi	4.12826	5.064117	-5.333744	0.009101216332553	0.004706114408893	0.000389415330572
184	minimi	-4.348706	-4.983807	-19.153748	-0.009196843838255	-0.003380801269064	-0.000368823772242
185	massimi	3.460709	3.687121	-5.333744	0.009101216332413	0.004706114408926	0.00038941533045
185	minimi	-3.879951	-3.621156	-19.153748	-0.009196843838113	-0.003380801269131	-0.000368823772127
186	massimi	3.391659	3.503275	-5.847873	0.008897216167434	0.004755946863234	0.000362856149433
186	minimi	-3.797214	-3.4501	-17.503977	-0.009147769663035	-0.00329282247887	-0.00034317108469
187	massimi	3.393768	3.84799	-2.542058	0.008897585598292	0.004512828330147	0.000352559245073
187	minimi	-3.799426	-3.769672	-22.505873	-0.009151649234535	-0.003365727950472	-0.000333090730056
188	massimi	3.507932	3.844409	-0.272011	0.009046758035577	0.004510911520429	0.000351597540088
188	minimi	-3.937979	-3.766743	-24.8983	-0.008981034253521	-0.003364064413723	-0.000333505307668
189	massimi	3.510159	3.506861	-2.258796	0.009041857640791	0.004760007946045	0.000361871632407
189	minimi	-3.940308	-3.453035	-21.215434	-0.008979643999377	-0.003296630288712	-0.000343562850262
190	massimi	34.368026	44.343578	-5.424564	0.004977008857624	0.002960229522163	0.002264663168441
190	minimi	-33.997035	-43.729504	-19.478242	-0.003972903557367	-0.000643758510195	-0.002253622486897
191	massimi	59.246464	74.757045	-5.465212	0.022522570932145	0.022562389621491	0.003850483291147
191	minimi	-58.419564	-72.506459	-19.591698	-0.023640822981359	-0.022993647619203	-0.003759877947815
192	massimi	77.006405	92.371906	-5.492134	0.007929851336281	0.003303583975577	0.004932309064701
192	minimi	-75.164329	-90.981984	-19.669622	-0.004705568850239	-0.000643904446431	-0.004785839171603
193	massimi	4.234495	4.530864	-0.49323	0.007328561503721	0.004417532940281	0.000514435921833
193	minimi	-4.288351	-4.507645	-22.365243	-0.007647665047566	-0.005344963268545	-0.000519689363963
194	massimi	3.589862	3.38467	-0.49323	0.007328561503608	0.004417532940329	0.000514435921672
194	minimi	-3.504604	-3.409316	-22.365243	-0.007647665047448	-0.005344963268576	-0.000519689363801
195	massimi	3.656926	3.636828	0.948838	0.007176026878803	0.004352626670647	0.000465974258398
195	minimi	-3.575093	-3.658202	-23.985993	-0.007638571170958	-0.005119267011734	-0.000470973641397
196	massimi	3.657976	3.111103	-4.572839	0.007173535383041	0.004347777813891	0.000474403141697

196	minimi	-3.576105	-3.138858	-17.277429	-0.007633623341829	-0.005407725874458	-0.000479321616487
197	massimi	3.524777	3.111362	0.173195	0.007260308690352	0.004353679463855	0.000477840830792
197	minimi	-3.436696	-3.138984	-22.431839	-0.007428700105543	-0.005414472681906	-0.000482479418913
198	massimi	3.524396	3.636613	4.594653	0.007257875955048	0.004346732439396	0.000469407575667
198	minimi	-3.436276	-3.658119	-28.040183	-0.007423811036872	-0.005112527622999	-0.000474127071996
199	massimi	34.324044	41.843163	-0.512061	0.004892161753842	0.002087550407433	0.002011467710873
199	minimi	-34.041017	-40.508979	-22.723844	-0.004833037761658	-0.003819970745	-0.002506817944465
200	massimi	59.644604	69.315561	-0.507344	0.019813144136516	0.022470576447822	0.003305047645452
200	minimi	-58.021425	-66.858831	-22.844499	-0.020582097939327	-0.020931789525152	-0.00430531359351
201	massimi	77.018019	85.256297	-0.502506	0.005005072073607	0.001993469191494	0.004181683499682
201	minimi	-75.152715	-82.389384	-22.927385	-0.004618820402599	-0.003963702391877	-0.005536464736621
202	massimi	3.187585	5.077426	-1.154195	0.009840939932537	0.008582735366925	0.000296288267627
202	minimi	-3.302544	-5.043149	-23.002085	-0.010157766411722	-0.009249340995761	-0.000336061822428
203	massimi	1.901125	3.567146	-1.154195	0.009840939932385	0.008582735366856	0.000296288267534
203	minimi	-1.916093	-3.580394	-23.002085	-0.010157766411565	-0.009249340995682	-0.000336061822323
204	massimi	1.957215	3.693385	6.130983	0.009550321746048	0.008514969675159	0.000268077278575
204	minimi	-1.995798	-3.682947	-30.287888	-0.010019091316437	-0.00901594482015	-0.000304558759436
205	massimi	1.959788	3.419804	4.694064	0.009548495861063	0.008388979112345	0.00027207855722
205	minimi	-1.99835	-3.456649	-27.997875	-0.010015499901904	-0.009200894082122	-0.00030851654934
206	massimi	1.833447	3.417701	-8.142601	0.009833440134288	0.008397302678047	0.00027551146975
206	minimi	-1.824723	-3.45457	-15.566671	-0.009990430753296	-0.009210056774419	-0.00031199859937
207	massimi	1.835989	3.695524	-1.290596	0.009831727182477	0.008506583174493	0.000271501547672
207	minimi	-1.827244	-3.685063	-23.271771	-0.009986952271937	-0.009006719192891	-0.000308032166034
208	massimi	37.495635	44.342508	-1.187633	0.003259942480488	0.002611064328015	0.002103108549711
208	minimi	-40.479628	-43.730574	-23.367797	-0.004472113886745	-0.002806078181624	-0.002415177105627
209	massimi	63.901188	73.545672	-1.222861	0.023786017062928	0.022365525842412	0.003497762532576
209	minimi	-69.413432	-73.717832	-23.473101	-0.023264405261517	-0.024110481279245	-0.004112598706385
210	massimi	81.942062	92.400801	-1.246156	0.003671309986188	0.00621567813055	0.004445365271775
210	minimi	-88.945879	-90.953089	-23.545123	-0.007398926732413	-0.006361111677676	-0.005272782964529
211	massimi	3.04613	4.542724	0.221875	0.007486997507301	0.005308199934589	0.000271691935251
211	minimi	-3.103103	-4.557447	-18.573119	-0.008195675291135	-0.006532554608822	-0.000293699930069
212	massimi	2.250682	3.317168	0.221875	0.007486997507186	0.005308199934582	0.000271691935166
212	minimi	-2.124001	-3.438193	-18.573119	-0.008195675291008	-0.006532554608792	-0.000293699929977
213	massimi	2.278055	3.401188	5.606239	0.007252325909175	0.005285589609122	0.000242841845258
213	minimi	-2.164977	-3.508624	-24.120702	-0.008068292371298	-0.006375751689655	-0.0002634365271795
214	massimi	2.279095	3.21428	5.542026	0.007254066302844	0.005169176201953	0.000251080998548
214	minimi	-2.165829	-3.34809	-22.48961	-0.008066790016539	-0.006490399623178	-0.000271278228138
215	massimi	2.209759	3.214665	-4.793284	0.007491701668016	0.005174787125081	0.000255609102315
215	minimi	-2.070504	-3.348279	-13.061237	-0.008074729830246	-0.006497887505506	-0.000275390467991
216	massimi	2.21076	3.401036	-2.674522	0.007493466686291	0.005279889126347	0.000247387182815
216	minimi	-2.071318	-3.50867	-16.746877	-0.008073252100093	-0.006368174247679	-0.000267565846438
217	massimi	37.487809	41.850502	0.189323	0.004522306728212	0.000320756155871	0.0002295027989252
217	minimi	-40.487454	-40.50164	-18.815713	-0.005955668091726	-0.002272483014134	-0.002223257666086
218	massimi	63.882267	69.161913	0.144771	0.020103739131689	0.024138046070305	0.003828199461146
218	minimi	-69.432352	-67.012479	-18.924411	-0.020162112165984	-0.025170211803348	-0.003782161777815
219	massimi	81.924562	85.270664	0.114994	0.00428555536611	0.002047172863859	0.004873059160726
219	minimi	-88.963379	-82.375017	-18.99888	-0.005673346263736	-0.003404090410833	-0.004845089075578
220	massimi	3.821097	4.555105	-4.127611	0.004395852709198	0.00680403537191	0.000227811380265
220	minimi	-3.676644	-4.55156	-18.008968	-0.005015743001011	-0.007512849036068	-0.000257859753007
221	massimi	2.800962	3.808758	-4.127611	0.00439585270913	0.006804035371898	0.000227811380194
221	minimi	-2.550187	-3.898196	-18.008968	-0.005015743000934	-0.007512849036037	-0.000257859752927
222	massimi	2.688684	3.790397	0.011087	0.004250399883461	0.006727402341744	0.000209853779705
222	minimi	-2.45668	-3.861474	-22.001012	-0.005003954582934	-0.007284058717433	-0.000237975592941
223	massimi	2.689838	3.806628	-5.67703	0.004249894601411	0.006673260643956	0.000208634095324
223	minimi	-2.457695	-3.913835	-15.405784	-0.0050015719818	-0.007512623762581	-0.00023646230208
224	massimi	2.895033	3.806491	-7.490672	0.004407880373643	0.006677428068658	0.000208150251866
224	minimi	-2.627289	-3.913308	-14.385453	-0.004877086527921	-0.007518432989542	-0.000235155218651
225	massimi	2.896218	3.790216	1.14626	0.004407463044766	0.006723227581139	0.000209379273213
225	minimi	-2.628336	-3.861682	-23.929495	-0.00487479187996	-0.007278242154569	-0.000236677846478
226	massimi	35.122666	41.847915	-4.221847	0.002543168066068	0.00341736049861	0.002038646556571
226	minimi	-37.113213	-40.504227	-18.297453	-0.003220919121175	-0.004204795972104	-0.002479639098767
227	massimi	60.297543	69.176804	-4.275601	0.021196045098645	0.021509398154722	0.003378546357985
227	minimi	-63.938859	-66.997589	-18.416521	-0.021575519857114	-0.0222981574717	-0.004231814880976
228	massimi	78.061236	85.265605	-4.311867	0.002342613388529	0.005137483668168	0.004287704671909
228	minimi	-82.377076	-82.380077	-18.498242	-0.003116311632181	-0.005282023825941	-0.005430443564395
229	massimi	3.710503	3.92206	0.678547	0.001055361064124	0.005121923120755	0.000524774050801
229	minimi	-3.531819	-4.116044	-8.776307	-0.004306559129268	-0.006139790235466	-0.000477799182675
230	massimi	2.943089	3.291502	0.678547	0.001055361064108	0.005121923120774	0.000524774050637
230	minimi	-2.611725	-3.973166	-8.776307	-0.004306559129201	-0.006139790235458	-0.000477799182526

231	massimi	3.243085	3.192306	-2.074364	0.001029330885113	0.005089748170419	0.000475761354634
231	minimi	-2.885413	-3.899388	-4.52727	-0.004279161992318	-0.0060495654609	-0.000434334056091
232	massimi	3.244494	3.373036	4.460599	0.001033959979957	0.00499796304923	0.000477766054758
232	minimi	-2.885762	-4.024761	-9.759609	-0.004281095228636	-0.006042850812574	-0.000434101001749
233	massimi	2.622438	3.373488	4.585505	0.001044654131499	0.004990925841289	0.000487367111136
233	minimi	-2.320638	-4.024698	-14.045264	-0.004200803848073	-0.0060444245224	-0.00044261426129
234	massimi	2.623897	3.191976	-2.080345	0.00104923986643	0.005096790254295	0.000485146792529
234	minimi	-2.321039	-3.899573	-8.682038	-0.004202693724479	-0.00604799662701	-0.000442631697149
235	massimi	35.123836	43.443065	0.726989	0.000731882153578	0.003091667356959	0.001999604838107
235	minimi	-37.112043	-41.324978	-9.199255	-0.003468425987647	-0.005068454857274	-0.002518680817231
236	massimi	60.627524	71.213942	0.7425	0.011216854019548	0.021748860821992	0.003044731992333
236	minimi	-63.608879	-67.233023	-9.351345	-0.012886926221169	-0.021763971100657	-0.004565629246628
237	massimi	78.055815	87.253061	0.746417	0.001729943597192	0.004186418571337	0.00418476155004
237	minimi	-82.382498	-81.39747	-9.420245	-0.00438959666791	-0.00653381825829	-0.00553386686264
238	massimi	2.690413	3.844284	4.261572	0.002496908007414	0.003003094387393	0.000695980054165
238	minimi	-2.724626	-4.041129	-3.995649	-0.003856325366132	-0.003776065308061	-0.000625301446358
239	massimi	37.484766	43.444238	4.442459	0.001339719386089	0.001699848434334	0.002171134743315
239	minimi	-40.490496	-41.323806	-4.307109	-0.003773811644143	-0.003406784581999	-0.002347150912023
240	massimi	64.041909	71.332541	4.468857	0.020756105040665	0.0230163564203	0.003671912894641
240	minimi	-69.272711	-67.114424	-4.391833	-0.021374487117865	-0.024057120370602	-0.00393844834432
241	massimi	81.907623	87.259455	4.489155	0.002877911549913	0.004309698322638	0.004694028347865
241	minimi	-88.980318	-81.391076	-4.449559	-0.005164613365304	-0.006247311765929	-0.005024119888439
242	massimi	3.799063	3.291004	-5.917682	0.010957597981089	0.003799151585239	0.000346402166023
242	minimi	-3.627061	-3.33118	-10.123551	-0.01184434579615	-0.005125997212232	-0.000344585148633
243	massimi	3.230982	1.516214	-5.917682	0.01095759798092	0.003799151585285	0.000346402165915
243	minimi	-2.859953	-1.689403	-10.123551	-0.011844345795968	-0.005125997212245	-0.000344585148525
244	massimi	3.237641	1.528817	0.01148	0.010738131189981	0.003781660200431	0.000316649976022
244	minimi	-2.866897	-1.702223	-16.190029	-0.011713902604377	-0.004988673469299	-0.000315876498305
245	massimi	3.238331	1.49933	-0.186144	0.010741526475637	0.003702254175017	0.000315615793828
245	minimi	-2.867317	-1.671151	-14.294364	-0.011713783690544	-0.005108483927405	-0.000314273776569
246	massimi	3.204924	1.499543	-0.147545	0.01083963364791	0.003705037714204	0.000318879480122
246	minimi	-2.836341	-1.670788	-15.467785	-0.011613839994553	-0.005113616050826	-0.000316319455594
247	massimi	3.205639	1.528662	-0.628951	0.010843034472695	0.003779609414523	0.000319914984249
247	minimi	-2.836787	-1.702644	-16.684422	-0.011613726619848	-0.004984274099158	-0.000317923499264
248	massimi	35.120815	42.774925	-6.02034	0.010969338176085	0.001296657906909	0.0024224675549
248	minimi	-37.115064	-40.488456	-10.288915	-0.012195614261397	-0.003047304216714	-0.002095788899848
249	massimi	60.54428	70.606484	-6.082683	0.016804502257	0.022892050413022	0.004164202401184
249	minimi	-63.692123	-66.384353	-10.374206	-0.017786836726651	-0.023134059614695	-0.003446158837777
250	massimi	78.053963	86.632798	-6.124868	0.010265748871105	0.001457446192622	0.005355479712156
250	minimi	-82.38435	-80.92212	-10.432324	-0.011612438065417	-0.003384514198018	-0.004362668524148
251	massimi	2.736139	1.324885	-1.058096	0.005765831605291	-0.000286232603406	0.000516390336107
251	minimi	-2.772054	-1.302654	-5.407732	-0.006723597235579	-0.002726409971223	-0.000473458313801
252	massimi	2.816604	0.327106	-1.058096	0.005765831605202	-0.000286232603323	0.000516390335945
252	minimi	-2.400622	-0.448541	-5.407732	-0.006723597235475	-0.002726409971246	-0.000473458313653
253	massimi	2.818018	0.599767	2.809589	0.005643117694098	-0.000278279502065	0.000473149309865
253	minimi	-2.377978	-0.746008	-10.539094	-0.006626033083946	-0.002653953233921	-0.000434649851117
254	massimi	2.818124	0.122591	3.476468	0.005649572545462	-0.000285439733746	0.000474578338089
254	minimi	-2.377896	-0.218414	-7.350517	-0.006624508840543	-0.002715773760609	-0.000435680236218
255	massimi	2.804856	0.121124	0.063506	0.00570632480192	-0.000290325075906	0.000474228698621
255	minimi	-2.415879	-0.216301	-5.163263	-0.006617722755868	-0.002713425095981	-0.000433965018683
256	massimi	2.80494	0.598981	-1.79743	0.005712781822036	-0.000273413038062	0.000472799535296
256	minimi	-2.415775	-0.745868	-7.157783	-0.006616200681217	-0.002656283020393	-0.000432934498482
257	massimi	37.48422	42.804503	-1.094735	0.009499691393661	-0.000213375043748	0.002320831568394
257	minimi	-40.491043	-40.458878	-5.80909	-0.011049886114279	-0.001966654262154	-0.002197454086944
258	massimi	64.082733	70.731158	-1.146231	0.016950324956052	0.024414834289401	0.00397763766353
258	minimi	-69.231887	-66.259679	-5.908938	-0.017762349724418	-0.0252329228085	-0.003632723575432
259	massimi	81.911254	86.480834	-1.180664	0.010940842799797	0.000873102524845	0.005109304651768
259	minimi	-88.976687	-81.074084	-5.977243	-0.011595525565159	-0.003312942005248	-0.004608843584535
260	massimi	167.587626	158.799037	5.45338	0.01740050633988	0.005073776146993	0.007046687480867
260	minimi	-165.879061	-159.797224	-18.272923	-0.017066459821081	-0.003921813753249	-0.006875369494559
261	massimi	138.029631	158.720436	2.268789	0.013437673021447	0.004507714790956	0.007118489100992
261	minimi	-133.821171	-159.875825	-16.746544	-0.013166398477103	-0.001964585601108	-0.006803567874435
262	massimi	167.512724	131.447904	4.282908	0.017672549117684	0.00400912106783	0.007089829515353
262	minimi	-165.953963	-131.452849	-18.108059	-0.017156887625568	-0.004995113975395	-0.006832227460074
263	massimi	137.991552	131.54781	-4.259232	0.013530223643286	0.002664115641584	0.007151636681816
263	minimi	-133.859251	-131.352943	-15.338274	-0.013018492872374	-0.004497831933766	-0.006770420293611
264	massimi	111.280987	131.463368	-5.915969	0.013491368209752	0.00196007049794	0.007061539436947
264	minimi	-104.758169	-131.437385	-16.235685	-0.013274561104344	-0.003674652642218	-0.00686051753848
265	massimi	111.313123	158.827042	0.032747	0.01336055103885	0.003939228151783	0.007053589783197

265	minimi	-104.726033	-159.769219	-14.632142	-0.013266171215051	-0.001168682320417	-0.00686846719223
266	massimi	104.73805	159.027531	-0.196525	0.01334795914761	0.00390494292978	0.006915546617571
266	minimi	-97.917688	-159.568731	-14.350855	-0.013281221571099	-0.001097154661428	-0.007006510357856
267	massimi	104.705909	131.335604	-5.79299	0.013425455993855	0.001911714204603	0.006938259714234
267	minimi	-97.94983	-131.565149	-16.825558	-0.013309213408955	-0.003588196672138	-0.006983797261193
268	massimi	103.451977	159.1312	0.457295	0.013166284691102	0.003988379383222	0.006849755063039
268	minimi	-98.196903	-159.465061	-14.905707	-0.013188858774473	-0.001255942589522	-0.007072301912388
269	massimi	103.417119	131.275429	-5.118228	0.013118866799102	0.002035674947031	0.006869969426928
269	minimi	-98.23176	-131.625324	-16.979594	-0.013168562887772	-0.003706827244102	-0.007052087548499
270	massimi	109.243396	158.99376	3.865015	0.017179400949363	0.003987623336219	0.006963680033626
270	minimi	-105.744108	-159.602501	-18.024319	-0.017268105595103	-0.002390521844865	-0.006958376941801
271	massimi	109.181583	131.296964	-0.893567	0.017451647193056	0.003028170470824	0.006873558443586
271	minimi	-105.805921	-131.603789	-18.903579	-0.017518683425661	-0.00383104739877	-0.007048498531841
272	massimi	6.03289	2.642634	-6.312524	0.011064720829553	0.006787149891035	0.000211447831451
272	minimi	-5.982245	-2.622068	-9.633578	-0.01092949428647	-0.006659336719793	-0.000203705544483
273	massimi	5.025803	1.005093	-6.312524	0.011064720829383	0.006787149891095	0.000211447831385
273	minimi	-4.99433	-0.964243	-9.633578	-0.010929494286301	-0.006659336719854	-0.000203705544419
274	massimi	4.892205	1.013894	0.036011	0.010855149207719	0.006731867561532	0.000201636809012
274	minimi	-4.856199	-0.977759	-15.843488	-0.01082195108544	-0.0065056869521	-0.000194519413681
275	massimi	4.891879	1.001683	-2.202392	0.010855748999635	0.006635531931663	0.000202150953667
275	minimi	-4.855938	-0.956389	-13.768655	-0.010822889395245	-0.006609982519921	-0.000195167660807
276	massimi	5.126582	1.001985	2.423934	0.010936392973596	0.006630085641953	0.000186311448273
276	minimi	-5.099786	-0.956641	-18.221924	-0.010702921806104	-0.006604178077734	-0.000179224834814
277	massimi	5.126258	1.011695	0.599639	0.010936992641435	0.006737315557975	0.000185799169055
277	minimi	-5.099525	-0.97561	-16.234059	-0.010703859991832	-0.00651149310102	-0.000178578453125
278	massimi	51.846359	41.591854	-6.39645	0.015574555114546	0.003700792725245	0.002264858021486
278	minimi	-51.370971	-42.010136	-9.767603	-0.01529798814761	-0.003673456757159	-0.002253427633852
279	massimi	5.285667	2.838241	-10.787836	0.010888515377752	0.005322573419577	0.000185387749179
279	minimi	-5.246054	-2.820374	-12.096245	-0.010804326357539	-0.004927784073731	-0.00018022274885
280	massimi	4.493204	1.218639	-10.787836	0.010888515377584	0.005322573419642	0.000185387749121
280	minimi	-4.51281	-1.188143	-12.096245	-0.010804326357373	-0.004927784073802	-0.000180222748794
281	massimi	4.377909	1.221757	-3.266725	0.010648113329071	0.005316146164934	0.000176661123292
281	minimi	-4.394355	-1.194449	-19.207786	-0.010711935067428	-0.004780012473898	-0.00017184102835
282	massimi	4.377514	1.209848	-4.435471	0.010648093289383	0.005166747577325	0.000177367017031
282	minimi	-4.394007	-1.176367	-18.544276	-0.010712960641857	-0.004925337534622	-0.000172647034033
283	massimi	4.579388	1.210041	-2.963746	0.010797007908968	0.005162425467244	0.000163498581507
283	minimi	-4.601977	-1.17659	-19.908259	-0.010566328976711	-0.004920792446821	-0.000158842960764
284	massimi	4.578994	1.221356	-4.34126	0.01079698690806	0.005320467466919	0.000162791973788
284	minimi	-4.60163	-1.194017	-18.02551	-0.01056735358992	-0.004784556753603	-0.0001580362411
285	massimi	42.102745	41.6594	-10.946694	0.014376595350271	0.002717423914866	0.002250433428633
285	minimi	-41.033019	-41.94259	-12.293466	-0.014181020919034	-0.00250052012174	-0.002267852226705
286	massimi	4.187592	2.830847	-11.256461	0.0108031711146641	0.004450489056649	0.000166640552524
286	minimi	-4.133772	-2.81947	-12.111985	-0.010795436967462	-0.003861230881468	-0.000160274933176
287	massimi	3.526993	1.212225	-11.256461	0.0108031711146475	0.004450489056696	0.000166640552472
287	minimi	-3.561562	-1.199687	-12.111985	-0.010795436967296	-0.003861230881525	-0.000160274933126
288	massimi	3.501085	1.217719	-3.526746	0.010563075237115	0.004453851089873	0.000157109824116
288	minimi	-3.531744	-1.209035	-19.254064	-0.010705218132795	-0.00372302477005	-0.000151193316402
289	massimi	3.50068	1.202798	-4.766423	0.01056237378524	0.004311462362177	0.000157923170686
289	minimi	-3.531359	-1.186489	-18.768495	-0.010706077352891	-0.003881735575674	-0.000152047822552
290	massimi	3.568616	1.202908	-3.996602	0.010714639670749	0.00430585275775	0.000148673058068
290	minimi	-3.606846	-1.186652	-19.528418	-0.010555703517369	-0.003876105486988	-0.000142911193028
291	massimi	3.568292	1.217521	-4.392573	0.010713939661192	0.004459459488137	0.000147857849231
291	minimi	-3.606542	-1.208783	-18.378338	-0.010556564179782	-0.003728653652573	-0.000142054824612
292	massimi	34.224779	41.782318	-11.427996	0.014358572268612	0.002469902668284	0.002262901027362
292	minimi	-32.635583	-41.819672	-12.303946	-0.014319238562047	-0.002160790511696	-0.002255384627976
293	massimi	3.940355	2.835139	-11.181284	0.010807480478745	0.004190715353696	0.000178349044303
293	minimi	-3.91903	-2.833757	-12.239443	-0.010810497647662	-0.003589988485116	-0.000167463557897
294	massimi	3.318568	1.214245	-11.181284	0.010807480478578	0.00419071535374	0.000178349044248
294	minimi	-3.387351	-1.213314	-12.239443	-0.010810497647496	-0.003589988485172	-0.000167463557844
295	massimi	3.315706	1.217173	-3.786988	0.010567295048273	0.004199793174824	0.000165907008173
295	minimi	-3.377787	-1.222773	-19.031376	-0.010720365251428	-0.003457332186226	-0.000155807317309
296	massimi	3.315623	1.208888	-4.526066	0.010566242192007	0.004053905023325	0.000166711217689
296	minimi	-3.377706	-1.201434	-19.061084	-0.010720903442388	-0.003613225136248	-0.00015661458049
297	massimi	3.300553	1.208792	-4.261693	0.010719258885388	0.004052279763936	0.000161350414489
297	minimi	-3.375581	-1.201445	-19.329317	-0.010570539995939	-0.003611607867941	-0.000151479579172
298	massimi	3.30045	1.21799	-4.187873	0.010718207236596	0.004201416911074	0.000160543930504
298	minimi	-3.37548	-1.223483	-18.634352	-0.010571079394373	-0.003458947931393	-0.000150670041521
299	massimi	32.580307	41.792746	-11.351287	0.014326981613132	0.002326370194123	0.002283753344375
299	minimi	-31.03625	-41.809245	-12.433674	-0.014319399329834	-0.00199528585288	-0.002234532310963

300	massimi	3.746038	2.810966	-11.153445	0.010800143709416	0.004173784157893	0.000174539540927
300	minimi	-3.798747	-2.823148	-12.153526	-0.010836295738728	-0.003717293601638	-0.000159889244549
301	massimi	3.127103	1.18654	-11.153445	0.010800143709249	0.004173784157931	0.000174539540873
301	minimi	-3.248286	-1.204145	-12.153526	-0.010836295738561	-0.003717293601687	-0.000159889244499
302	massimi	3.137644	1.184247	-4.054699	0.01056131103261	0.004187205897507	0.000160568612453
302	minimi	-3.249726	-1.210601	-18.722106	-0.010746429570875	-0.003587599097323	-0.000146959876617
303	massimi	3.138125	1.183241	-3.978005	0.010560143917316	0.004033159790693	0.000161396069808
303	minimi	-3.250179	-1.191981	-19.382998	-0.010746471487625	-0.003733701367211	-0.000147729538883
304	massimi	3.101262	1.182906	-4.262025	0.010710907574204	0.004040347699294	0.000159691827071
304	minimi	-3.230769	-1.191834	-19.145244	-0.010595781985786	-0.003740985025792	-0.000146423111917
305	massimi	3.10131	1.186007	-3.624664	0.010709740990756	0.004180023099248	0.000158861531257
305	minimi	-3.23079	-1.212173	-19.198407	-0.010595824434382	-0.003580320549083	-0.000145650611192
306	massimi	32.438993	41.846316	-11.323165	0.014251446569082	0.002268690305221	0.002296999240197
306	minimi	-31.516444	-41.755675	-12.346391	-0.014327801332916	-0.001920377232408	-0.002221286415141
307	massimi	2.818974	2.034246	8.209256	0.007889369467391	0.012455879003833	0.000158358074365
307	minimi	-2.861339	-1.946594	-21.66168	-0.007763538005282	-0.012141059730928	-0.000161025523879
308	massimi	2.817531	1.941669	0.608274	0.007886554742954	0.012489065418979	0.000159042067784
308	minimi	-2.860027	-1.85573	-14.211591	-0.007779922036429	-0.012309141333642	-0.000162034754534
309	massimi	2.815935	1.845386	-2.834227	0.007930217655785	0.012429820032821	0.000161923231748
309	minimi	-2.858571	-1.761337	-10.842302	-0.007806284463277	-0.012386123323032	-0.000164919139706
310	massimi	2.900384	1.748382	4.092205	0.007938782921831	0.012368727985008	0.000159218750099
310	minimi	-2.941377	-1.666316	-17.683308	-0.007752592417719	-0.012401447499005	-0.000162322699528
311	massimi	2.98362	1.750247	5.567001	0.007952811933041	0.012338726230359	0.000159874117068
311	minimi	-3.022951	-1.668202	-19.034502	-0.007695545200458	-0.012370351814423	-0.000162878904425
312	massimi	3.06469	1.751231	8.721319	0.007934139716496	0.012338855106907	0.00015584462593
312	minimi	-3.102328	-1.669234	-22.03031	-0.007606864949719	-0.012369211442829	-0.000158996422774
313	massimi	3.144865	1.847528	8.368185	0.007942706858678	0.012400294774046	0.000151966749439
313	minimi	-3.180792	-1.763529	-21.478462	-0.007553191266046	-0.01235426297211	-0.000155103858671
314	massimi	3.143056	1.941669	6.015939	0.007965726428293	0.012489065418979	0.000160105400974
314	minimi	-3.17912	-1.85573	-19.052592	-0.007560179970684	-0.012309141333642	-0.0001630830107
315	massimi	3.141799	2.032084	6.767684	0.008016028920671	0.012485429619001	0.00014840021861
315	minimi	-3.177996	-1.944381	-19.653855	-0.00762841159764	-0.012172945438243	-0.0001512088694
316	massimi	3.063086	2.121967	12.06283	0.007986850256433	0.012455679578278	0.000150912600166
316	minimi	-3.100865	-2.032588	-24.922901	-0.007661064940621	-0.012068122059252	-0.000153610144516
317	massimi	2.98362	2.123456	12.478061	0.007952811933041	0.012425604095122	0.000159492186949
317	minimi	-3.022951	-2.034104	-25.496613	-0.007695545200458	-0.012037212088011	-0.000162461796535
318	massimi	2.901981	2.124877	14.191883	0.007906244619944	0.012425766417538	0.000154287380884
318	minimi	-2.942832	-2.035566	-27.334067	-0.007718564664867	-0.012035845720437	-0.00015693707782
319	massimi	2.920243	1.698242	-2.69031	0.006756832325187	0.012531347612915	0.000133464327377
319	minimi	-2.83503	-1.532157	-11.570626	-0.006627661856857	-0.012302034797619	-0.000124335370128
320	massimi	2.920627	1.723044	-0.70968	0.006737156398245	0.012456030554524	0.000131101970372
320	minimi	-2.835697	-1.551206	-13.645764	-0.00662784589172	-0.012370634852364	-0.00012189700464
321	massimi	2.920965	1.74642	6.060244	0.006757468670106	0.012288522068031	0.000131800080967
321	minimi	-2.83629	-1.569184	-20.427545	-0.006629199159266	-0.01234767576068	-0.000123327885412
322	massimi	2.980919	1.768885	13.009749	0.006768854103562	0.012175947667887	0.000128325850314
322	minimi	-2.901015	-1.586356	-27.222191	-0.006574456547102	-0.01231602910876	-0.000119894976016
323	massimi	3.039643	1.768807	12.55856	0.006795425135259	0.012163478451146	0.000131600302786
323	minimi	-2.964515	-1.586204	-26.641758	-0.006525842188927	-0.012302286826564	-0.000122438590731
324	massimi	3.096184	1.768418	12.443696	0.006793901207399	0.012180884217524	0.000125179693072
324	minimi	-3.025893	-1.585759	-26.36052	-0.006450252207185	-0.012318489346599	-0.000116657423897
325	massimi	3.151853	1.746078	9.102839	0.006805032787776	0.012293393834821	0.000122512143042
325	minimi	-3.086462	-1.568746	-22.876779	-0.006395273009784	-0.012350100647621	-0.00011377023311
326	massimi	3.152003	1.723044	5.689343	0.006791673912555	0.012456030554524	0.000132095332858
326	minimi	-3.086873	-1.551206	-19.450996	-0.006364285537939	-0.012370634852364	-0.000122919165691
327	massimi	3.152606	1.698212	5.250785	0.006805448938158	0.012526495971304	0.000124279047653
327	minimi	-3.087754	-1.532224	-18.91836	-0.006396590117656	-0.012299630035857	-0.000114880376027
328	massimi	3.096575	1.679669	7.131334	0.006794267701752	0.012548044200766	0.000127693203105
328	minimi	-3.026566	-1.519658	-20.835091	-0.00645132562596	-0.012240903984158	-0.000118262646398
329	massimi	3.039643	1.679982	5.333461	0.006795425135259	0.012535329440071	0.000131777322945
329	minimi	-2.964515	-1.519871	-19.203578	-0.006525842188927	-0.01222719232151	-0.000122545276157
330	massimi	2.980536	1.679823	4.398492	0.006768396188972	0.012552948762652	0.000130804358373
330	minimi	-2.900349	-1.519682	-18.397868	-0.00657329170809	-0.012243332234246	-0.000121465196543
331	massimi	2.520177	2.426919	5.192822	0.006147819770315	0.010091355028678	0.000194850500074
331	minimi	-2.610721	-2.382924	-21.601748	-0.006191679845336	-0.009622063851652	-0.00019186125463
332	massimi	2.518867	2.333342	1.272084	0.006130958158167	0.010104567109733	0.000197477709555
332	minimi	-2.609483	-2.287518	-17.916177	-0.006199185625299	-0.009806321611833	-0.000194684271664
333	massimi	2.517423	2.23547	-1.460023	0.006170866519488	0.010042978059219	0.00019918470158
333	minimi	-2.608111	-2.187914	-15.320384	-0.006217873201376	-0.009917986499926	-0.000196370591011
334	massimi	2.592185	2.142551	-0.750211	0.006213755298262	0.009986083586941	0.000196906121827

334	minimi	-2.684438	-2.093336	-16.077316	-0.006181201984887	-0.009958897690078	-0.000194238270522
335	massimi	2.687071	2.143511	-0.16918	0.006268391513639	0.009962257328859	0.000198330148476
335	minimi	-2.780838	-2.094376	-16.61311	-0.006145232297828	-0.009934700487885	-0.000195526186091
336	massimi	2.783334	2.143542	1.354323	0.006297017772698	0.009962782601367	0.000193832498785
336	minimi	-2.878539	-2.09449	-18.046796	-0.006083764022431	-0.009934465399435	-0.000191278717067
337	massimi	2.879161	2.237138	-0.655822	0.006339509682452	0.010019951262779	0.000190114088248
337	minimi	-2.975769	-2.189703	-15.853509	-0.006046703829011	-0.009893841843766	-0.000187636605504
338	massimi	2.877099	2.333342	-2.003481	0.006357562895905	0.010104567109733	0.000198446489834
338	minimi	-2.973772	-2.287518	-14.369338	-0.006044144052584	-0.009806321611833	-0.000195617107893
339	massimi	2.875636	2.425213	2.144704	0.006384212274169	0.010114391519742	0.000185776700221
339	minimi	-2.972387	-2.381097	-18.282553	-0.006094553027595	-0.009646218202436	-0.000183124082603
340	massimi	2.781493	2.516216	7.844578	0.006325876261554	0.010097746217407	0.000187835503696
340	minimi	-2.876773	-2.47389	-23.792913	-0.006115091452806	-0.009533960119184	-0.000185039513396
341	massimi	2.687071	2.517446	8.75808	0.006268391513639	0.010073843286856	0.000197865756898
341	minimi	-2.780838	-2.475192	-24.796184	-0.006145232297828	-0.009510017494001	-0.000195043037636
342	massimi	2.593635	2.518521	10.091218	0.00619547944532	0.010074429834435	0.000190910621908
342	minimi	-2.685812	-2.476357	-26.174607	-0.006160457190426	-0.009509512431143	-0.000188000562021
343	massimi	2.846463	2.008387	-2.150259	0.00540282387604	0.010201358236813	0.000190532886429
343	minimi	-2.797115	-1.873165	-18.306698	-0.005433100933828	-0.009740955178858	-0.000181788934279
344	massimi	2.846824	2.032268	-4.518311	0.005375416661561	0.010139326354582	0.000189671456188
344	minimi	-2.797709	-1.891547	-16.152533	-0.005435971828638	-0.009896658104761	-0.00018087353132
345	massimi	2.847103	2.056189	-2.753051	0.005403133954367	0.010002234782253	0.000188862588734
345	minimi	-2.798198	-1.910261	-18.006163	-0.005435971255489	-0.009979098090086	-0.000180656467549
346	massimi	2.914518	2.079061	1.628954	0.005452284050001	0.009910254957923	0.000185281169371
346	minimi	-2.87022	-1.928017	-22.348622	-0.005384287239122	-0.010010770802614	-0.00017713543816
347	massimi	3.003331	2.078985	1.330718	0.005518735199706	0.009900251308866	0.000190222580456
347	minimi	-2.963633	-1.927902	-21.978608	-0.005336237906263	-0.010000011853675	-0.000181455025087
348	massimi	3.090249	2.078527	1.254759	0.005562299717025	0.009914564565464	0.000182047831909
348	minimi	-3.055185	-1.927415	-21.774305	-0.005266059688461	-0.010013404042242	-0.000173853808083
349	massimi	3.176635	2.055797	-1.991921	0.005611111328068	0.010006492088423	0.000179319435494
349	minimi	-3.146246	-1.909817	-18.365611	-0.005214048877169	-0.009981698952643	-0.000170970798527
350	massimi	3.176734	2.032268	-3.51857	0.005611572839603	0.010139326354582	0.000190691068827
350	minimi	-3.146558	-1.891547	-16.7503	-0.005187693157622	-0.009896658104761	-0.000181908360982
351	massimi	3.177418	2.008457	-0.201198	0.005611493381748	0.010197104732256	0.000180980220778
351	minimi	-3.147472	-1.873287	-19.854077	-0.005216991174182	-0.009738358117913	-0.000172093752845
352	massimi	3.090654	1.993726	4.122916	0.00556258572831	0.010214954618998	0.00018434990298
352	minimi	-3.055821	-1.86422	-24.036992	-0.005268354560942	-0.00963434870744	-0.000175412070303
353	massimi	3.003331	1.993959	3.481212	0.005518735199706	0.010204759825206	0.000190400972944
353	minimi	-2.963633	-1.86439	-23.523593	-0.005336237906263	-0.009623819212738	-0.000181575819519
354	massimi	2.914127	1.993654	3.253157	0.005452027934314	0.010219258188546	0.00018758767509
354	minimi	-2.869598	-1.86408	-23.367355	-0.00538202226224	-0.009636975909077	-0.000178698135028
355	massimi	3.725712	3.532731	1.576719	0.008667365671441	0.009828090837296	0.000391492559905
355	minimi	-3.596653	-3.29684	-22.471999	-0.009028458369244	-0.009580350971811	-0.000358885473841
356	massimi	3.726792	3.582067	4.242711	0.008658444521575	0.009719498825185	0.000387322352992
356	minimi	-3.597877	-3.33552	-25.200886	-0.009031647325704	-0.009570830851732	-0.000354329501452
357	massimi	3.727494	3.629425	7.104773	0.008666910451949	0.00959526999345	0.000386491342379
357	minimi	-3.598706	-3.372375	-28.096587	-0.009028443322636	-0.009545913361492	-0.000354379201614
358	massimi	3.836258	3.675961	9.35798	0.008677916688924	0.009516185432047	0.000381806035807
358	minimi	-3.717975	-3.40846	-30.461765	-0.008973309610458	-0.009533309610458	-0.000349805314619
359	massimi	3.943967	3.675742	9.108082	0.008697154270732	0.009498172491387	0.000387720572492
359	minimi	-3.836185	-3.408188	-30.290037	-0.008892781641647	-0.009527763188683	-0.000354718644061
360	massimi	4.049614	3.675478	9.350834	0.008702478654207	0.00952372120066	0.000374541119926
360	minimi	-3.9524	-3.407859	-30.581645	-0.00879828595019	-0.009541424588312	-0.000342324025729
361	massimi	4.15473	3.629141	8.984905	0.00870761453425	0.009602225752352	0.000373499159183
361	minimi	-4.068154	-3.372021	-30.230987	-0.008736886003896	-0.009553404266244	-0.000340997561509
362	massimi	4.155616	3.582067	7.567954	0.008701576249308	0.009719498825185	0.000387792600584
362	minimi	-4.069162	-3.33552	-28.780431	-0.00871885176081	-0.009570830851732	-0.000354813849473
363	massimi	4.156563	3.533009	6.211651	0.008707082860661	0.009821154611061	0.000378508724473
363	minimi	-4.070257	-3.297188	-27.3612	-0.008736794503191	-0.009572879599726	-0.0003455121815
364	massimi	4.050696	3.483018	2.59361	0.008702001257544	0.009892990480692	0.000383396918507
364	minimi	-3.953643	-3.258	-23.631188	-0.008798215240222	-0.009578293430946	-0.000350288955957
365	massimi	3.943967	3.482908	0.329105	0.008697154270732	0.009902332537872	0.000387394381485
365	minimi	-3.836185	-3.257815	-21.317802	-0.008892781641647	-0.009575995942543	-0.000354424707265
366	massimi	3.83519	3.482554	-0.929427	0.008678351765336	0.009900490961251	0.000390608607753
366	minimi	-3.716747	-3.257418	-19.981125	-0.008973077440696	-0.009586373120747	-0.000357717018211
367	massimi	2.042107	2.474366	2.637476	0.005957931153534	0.00828976153829	0.000219154866834
367	minimi	-2.143994	-2.463653	-19.234992	-0.006103023189827	-0.007672158154549	-0.000216958926787
368	massimi	2.041347	2.370807	-0.075995	0.005933386974998	0.008277174164487	0.000224036396609
368	minimi	-2.143252	-2.358764	-16.848068	-0.006103961582561	-0.007834159104182	-0.0002220138658

369	massimi	2.04092	2.264285	-1.773533	0.005962714330303	0.008203322186688	0.000223583351562
369	minimi	-2.142845	-2.250937	-15.375783	-0.006112480349071	-0.007938175607323	-0.000221433440884
370	massimi	2.067578	2.173184	-1.51376	0.006004319536342	0.008145238213032	0.000222190846435
370	minimi	-2.170688	-2.158583	-15.825233	-0.006072276451213	-0.007980969685321	-0.00022017450836
371	massimi	2.095274	2.173763	-1.848315	0.006062076731139	0.008128874835247	0.000224770344787
371	minimi	-2.199516	-2.159254	-15.499643	-0.006036682845495	-0.007964854927624	-0.000222728896391
372	massimi	2.172615	2.173389	-0.761198	0.006094678399974	0.00813242447679	0.000220016926644
372	minimi	-2.277903	-2.158969	-16.549948	-0.005976039151477	-0.007967922688163	-0.000218127400558
373	massimi	2.257418	2.26448	-1.367378	0.006135895935783	0.008190661038915	0.000217167426944
373	minimi	-2.363711	-2.251267	-15.726045	-0.005935449210639	-0.007925283970895	-0.000215391747864
374	massimi	2.25579	2.370807	-1.752194	0.006145954509844	0.008277174164487	0.000224721695044
374	minimi	-2.362095	-2.358764	-15.115937	-0.005924824515688	-0.007834159104182	-0.000222659204974
375	massimi	2.254673	2.473369	1.049828	0.006162384753114	0.008302421606762	0.000212735326912
375	minimi	-2.361003	-2.46252	-17.591452	-0.005966612010445	-0.007685048711675	-0.000210913618463
376	massimi	2.171188	2.575016	4.832389	0.006110701061672	0.008300190537697	0.000213889188504
376	minimi	-2.276496	-2.56542	-21.038189	-0.005995729188823	-0.007585179706447	-0.000211936004576
377	massimi	2.095274	2.575754	5.235004	0.006062076731139	0.008283732260472	0.000224295841753
377	minimi	-2.199516	-2.566243	-21.477545	-0.006036682845495	-0.007569310028872	-0.00022224946363
378	massimi	2.068492	2.576372	6.273742	0.006000419833403	0.008287378515885	0.000216064802601
378	minimi	-2.171581	-2.566957	-22.507389	-0.006064709372626	-0.007572134423719	-0.000213984806684
379	massimi	2.278791	2.01446	-3.52691	0.005251956911645	0.008144225207998	0.000233270445366
379	minimi	-2.255933	-1.938303	-18.905339	-0.00548408253542	-0.007562881793873	-0.000229189393892
380	massimi	2.278241	2.042486	-5.169965	0.005222292695405	0.008064388938332	0.000235297010009
380	minimi	-2.255513	-1.963764	-17.543318	-0.005488187096984	-0.007725724141358	-0.000231216747172
381	massimi	2.277738	2.071508	-3.889574	0.0052518199664	0.007924881096796	0.000231806063437
381	minimi	-2.255128	-1.990384	-18.9645	-0.005487518633988	-0.007831402438299	-0.000228025886265
382	massimi	2.305656	2.099617	-1.840075	0.005309366326674	0.007831809709144	0.000229148536072
382	minimi	-2.285173	-2.016147	-21.121408	-0.005432076687556	-0.007877036454916	-0.000225406276179
383	massimi	2.334027	2.099677	-2.34088	0.005385118134672	0.007818841777682	0.000235744158008
383	minimi	-2.315666	-2.016187	-20.649333	-0.005379741762198	-0.007864217490878	-0.000231680724721
384	massimi	2.418994	2.099376	-1.911774	0.005438534482868	0.007825153709775	0.000226838595434
384	minimi	-2.402771	-2.015874	-21.043813	-0.005305093700287	-0.007870331069728	-0.000223073999482
385	massimi	2.508868	2.071331	-3.88862	0.005495756218696	0.007918306820007	0.000224990023517
385	minimi	-2.494804	-1.990184	-18.953622	-0.005249327473786	-0.007824779362661	-0.00022114393066
386	massimi	2.508871	2.042486	-5.058278	0.005498698067459	0.008064388938332	0.000236024654581
386	minimi	-2.494926	-1.963764	-17.643162	-0.005222100121273	-0.007725724141358	-0.000231951409846
387	massimi	2.509426	2.014372	-2.596148	0.005495677590697	0.008150790276259	0.000226458093016
387	minimi	-2.495609	-1.938238	-19.824267	-0.0052528218896	-0.007569495660984	-0.000222311125858
388	massimi	2.419277	1.995079	0.253878	0.005438461745425	0.008185042331645	0.000228867598852
388	minimi	-2.403183	-1.921597	-22.364479	-0.005307824504589	-0.007467517715951	-0.000224686900106
389	massimi	2.334027	1.995381	-0.397329	0.005385118134672	0.008171863634218	0.00023590116925
389	minimi	-2.315666	-1.921868	-21.747842	-0.005379741762198	-0.007454958991953	-0.000231805514361
390	massimi	2.306189	1.995119	0.073472	0.005309463291316	0.008178400957451	0.000231175804108
390	minimi	-2.285576	-1.921605	-22.189969	-0.005429370110452	-0.007460826955938	-0.00022701744142
391	massimi	3.070777	4.127059	-1.420523	0.004787471751295	0.007912956485798	0.000297724323035
391	minimi	-2.992938	-3.904493	-24.294117	-0.004995475226441	-0.007298926583299	-0.000288884021377
392	massimi	3.070712	4.155963	0.443544	0.00477602763942	0.007809297894104	0.000294988191203
392	minimi	-2.992998	-3.930499	-26.335753	-0.004999723291756	-0.007318379212577	-0.000286123372
393	massimi	3.070531	4.182514	2.345147	0.0047872106516516	0.007693098450535	0.000292932898195
393	minimi	-2.992939	-3.954293	-28.378554	-0.004996733492958	-0.00732608167954	-0.000284545216672
394	massimi	3.069065	4.20806	3.786711	0.004829061152625	0.007616423743233	0.000289223593967
394	minimi	-2.994232	-3.977139	-29.980652	-0.004955943167723	-0.00733209706333	-0.000280959071866
395	massimi	3.067637	4.208025	3.803641	0.004893199166403	0.007595451355525	0.000295290096298
395	minimi	-2.99556	-3.977063	-30.016687	-0.00489590163271	-0.007326505427432	-0.000286415243807
396	massimi	3.114493	4.207879	3.996483	0.004949586412331	0.007614355393601	0.00028475030009
396	minimi	-3.045216	-3.976879	-30.192179	-0.004828104977165	-0.007330036715101	-0.000276341082215
397	massimi	3.169496	4.182407	2.184239	0.004988186537613	0.00769118932826	0.000284874397107
397	minimi	-3.103068	-3.954139	-28.221158	-0.004784128271776	-0.007324179949961	-0.000276226272892
398	massimi	3.170366	4.155963	0.189791	0.004991267220337	0.007809297894104	0.000295280286139
398	minimi	-3.104057	-3.930499	-26.085513	-0.004772965774785	-0.007318379212577	-0.000286424896357
399	massimi	3.17123	4.127167	-1.749266	0.004987887717996	0.007914860088473	0.000289648964184
399	minimi	-3.105048	-3.904648	-23.968886	-0.004785282953455	-0.007300822793279	-0.000280548219835
400	massimi	3.115512	4.097306	-3.748339	0.004949481153574	0.007986349436688	0.000293351828706
400	minimi	-3.046381	-3.877796	-21.80928	-0.004829189644473	-0.007289961015802	-0.000284127924935
401	massimi	3.067637	4.097327	-3.884804	0.004893199166403	0.007992256527956	0.000294978368983
401	minimi	-2.99556	-3.877771	-21.690082	-0.00489590163271	-0.007281313501975	-0.000286133012489
402	massimi	3.069193	4.097124	-3.846523	0.004829262129431	0.007984291056653	0.000297841965414
402	minimi	-2.994213	-3.877535	-21.709341	-0.004954801218466	-0.007287910637169	-0.000288762757416
403	massimi	1.927575	2.476843	1.332893	0.005970965920841	0.007945019900686	0.000202643350803

403	minimi	-2.065485	-2.471994	-17.919078	-0.006131204955156	-0.007340819168291	-0.00021014798857
404	massimi	1.927488	2.376733	-0.946551	0.005938871295906	0.007923019928305	0.000208520489653
404	minimi	-2.065384	-2.37667	-15.957847	-0.006124480549829	-0.007493353340567	-0.000216503430719
405	massimi	1.927497	2.273965	-1.643321	0.005958252516339	0.007842404403913	0.000207119124889
405	minimi	-2.065407	-2.278688	-15.478038	-0.006123024701513	-0.007590453284015	-0.000214624004035
406	massimi	1.93821	2.185488	-1.212044	0.005997617498106	0.007783737285143	0.000206584159388
406	minimi	-2.071935	-2.195063	-16.099028	-0.006080612329714	-0.00763259496297	-0.000214238676488
407	massimi	1.95	2.185701	-2.00198	0.006057616474356	0.007772711561863	0.000209110556017
407	minimi	-2.079494	-2.195376	-15.326354	-0.006047365305104	-0.007621871314446	-0.000217074156253
408	massimi	1.962115	2.184968	-1.286137	0.006092477054345	0.007780766019144	0.000205271641834
408	minimi	-2.087271	-2.194766	-16.013694	-0.005989022447998	-0.007629529532683	-0.000213083689775
409	massimi	1.981287	2.273609	-1.541179	0.006131456598471	0.007839468317425	0.000203245043691
409	minimi	-2.102033	-2.278499	-15.557616	-0.005946225295456	-0.007587424152364	-0.000211214808052
410	massimi	1.980794	2.376733	-1.031014	0.006130509668583	0.007923019928305	0.000208934409742
410	minimi	-2.101544	-2.37667	-15.850804	-0.005924491886725	-0.007493353340567	-0.000216867711842
411	massimi	1.98053	2.476529	1.362216	0.006137871111299	0.007947956445423	0.000198764849168
411	minimi	-2.101276	-2.471513	-17.925838	-0.005957172959144	-0.00734384875819	-0.00020673437215
412	massimi	1.961897	2.57512	4.922866	0.006093503763101	0.007948778962095	0.000199077765552
412	minimi	-2.087053	-2.565196	-21.150657	-0.005993606030824	-0.007247003395206	-0.000206889479669
413	massimi	1.95	2.575405	4.516613	0.006057616474356	0.007937650679787	0.000208630942675
413	minimi	-2.079494	-2.565603	-20.772837	-0.006047365305104	-0.007236517099892	-0.000216594517059
414	massimi	1.938315	2.575555	5.125207	0.006007479142915	0.00794580696845	0.000200392355313
414	minimi	-2.072039	-2.565855	-21.364239	-0.006086917100453	-0.007243937237275	-0.000208046538589
415	massimi	2.128639	2.021361	-3.749127	0.005247124416695	0.007815178138709	0.000208022490979
415	minimi	-2.149439	-1.98162	-18.984299	-0.005568594732216	-0.007233780128399	-0.000210714152847
416	massimi	2.12843	2.036901	-5.168973	0.005216333959648	0.007733175611174	0.000210958312317
416	minimi	-2.149285	-1.998869	-17.844145	-0.005571942952944	-0.007398675876616	-0.000213837818724
417	massimi	2.128328	2.055679	-4.696508	0.005244002850698	0.00759397516899	0.000206673774348
417	minimi	-2.149247	-2.019434	-18.453556	-0.005569002267023	-0.00750885039281	-0.000209510794465
418	massimi	2.139223	2.0736	-2.610806	0.005300655174737	0.007502669468963	0.000204965730408
418	minimi	-2.158576	-2.039187	-20.689098	-0.005510554709128	-0.007558817177978	-0.000207850209772
419	massimi	2.150802	2.073751	-2.99435	0.005376200581629	0.007492060703306	0.00021124711926
419	minimi	-2.168583	-2.039344	-20.381483	-0.005455823270906	-0.007548738304368	-0.000214132976859
420	massimi	2.162259	2.073496	-2.544642	0.005430656196511	0.007499943736894	0.000203594193937
420	minimi	-2.178452	-2.039114	-20.842575	-0.005379671439119	-0.007556822837146	-0.000206500303441
421	massimi	2.180238	2.055599	-4.293242	0.00548935399003	0.007591286298802	0.000202626602779
421	minimi	-2.194834	-2.019378	-19.032074	-0.00532326425056	-0.007506884220984	-0.000205527455354
422	massimi	2.179993	2.036901	-5.163322	0.005493137709791	0.007733175611174	0.000211390403147
422	minimi	-2.194652	-1.998869	-18.025175	-0.005296045450697	-0.007398675876616	-0.000214263093888
423	massimi	2.179987	2.021241	-3.286266	0.00549003327456	0.007817851304963	0.000203976682179
423	minimi	-2.194703	-1.981476	-19.622412	-0.005327472635893	-0.00723573059629	-0.000206732176506
424	massimi	2.162068	2.01053	-0.320177	0.005431178139217	0.007852723197358	0.000205461139466
424	minimi	-2.178324	-1.96907	-22.232446	-0.005382962444266	-0.007131765691007	-0.000208166221586
425	massimi	2.150802	2.010782	-0.705601	0.005376200581629	0.007841910752881	0.000211391622986
425	minimi	-2.168583	-1.969337	-21.835584	-0.005455823270906	-0.007121963008219	-0.000214261913701
426	massimi	2.139398	2.010513	-0.118727	0.005303101019664	0.007850022406709	0.000206832033379
426	minimi	-2.158688	-1.969084	-22.346584	-0.005510231491613	-0.007129796291596	-0.000209515485359
427	massimi	2.610397	3.745038	-2.160896	0.005663104821613	0.006629920449932	0.000623128762125
427	minimi	-2.488656	-3.707973	-25.688175	-0.006447213218632	-0.006505573415303	-0.000616787069672
428	massimi	2.610585	3.789	-0.701864	0.005651379819925	0.006534594347576	0.000625023687978
428	minimi	-2.488865	-3.749836	-27.163791	-0.006451390380793	-0.006544680456187	-0.0006184148447
429	massimi	2.610306	3.831251	0.896524	0.005663255471655	0.006428834328145	0.000619016377861
429	minimi	-2.488608	-3.790013	-28.739046	-0.006447334005944	-0.006573337334983	-0.000612753306367
430	massimi	2.782342	3.872953	2.463784	0.005703826833808	0.006358756798749	0.000615567923081
430	minimi	-2.662689	-3.82964	-30.484895	-0.006397775812654	-0.006593517439044	-0.000609241890074
431	massimi	2.954101	3.87298	2.49547	0.005766252214348	0.006339661122725	0.000625305365431
431	minimi	-2.836523	-3.829603	-30.718045	-0.006325475431637	-0.006591624311071	-0.000618701651366
432	massimi	3.124699	3.872943	2.668475	0.005819515833948	0.00635608900106	0.000611036072637
432	minimi	-3.009269	-3.829501	-31.052704	-0.00624311258662	-0.006592505377226	-0.000604474001695
433	massimi	3.295183	3.83125	1.233254	0.005856300057328	0.00642637296056	0.000610863695642
433	minimi	-3.181944	-3.789936	-29.802632	-0.006189380433416	-0.006572405743025	-0.000604175771691
434	massimi	3.295052	3.789	-0.457723	0.005858977224823	0.006534594347576	0.000625318660819
434	minimi	-3.181829	-3.749836	-28.134882	-0.006175193595428	-0.006544680456187	-0.000618725199477
435	massimi	3.295154	3.745026	-1.963324	0.00585637860382	0.006632371655116	0.000614987089512
435	minimi	-3.181958	-3.708037	-26.612603	-0.006189429117179	-0.006506494844859	-0.000608220544601
436	massimi	3.124674	3.70063	-3.713381	0.005819601382672	0.006698281130069	0.000618453588794
436	minimi	-3.009269	-3.665818	-24.683958	-0.006243170544423	-0.006482013749434	-0.000611750005396
437	massimi	2.954101	3.700767	-3.822443	0.005766252214348	0.00670386070958	0.00062503701714
437	minimi	-2.836523	-3.665887	-24.413243	-0.006325475431637	-0.006472029707663	-0.000618438426585

438	massimi	2.782385	3.700664	-3.847786	0.005703701363678	0.006695631689198	0.000622974431132
438	minimi	-2.662707	-3.665723	-24.186434	-0.006397677933444	-0.006481020044434	-0.00061650688567
439	massimi	1.849517	2.500132	1.109667	0.005973053988726	0.007956093584049	0.000209476189206
439	minimi	-2.043985	-2.502973	-17.581139	-0.006173167788216	-0.007532653044959	-0.000231276737399
440	massimi	1.85058	2.371155	-1.15202	0.005942115714702	0.007929870564186	0.000217200482631
440	minimi	-2.04499	-2.387797	-15.525471	-0.006166275698663	-0.007679321653685	-0.000239937596479
441	massimi	1.851884	2.243184	-1.601721	0.005962262190237	0.007845003331129	0.000214051325079
441	minimi	-2.0463	-2.273593	-15.181823	-0.006165019378906	-0.0077692011552	-0.000235788266308
442	massimi	1.825813	2.122769	-0.851011	0.006000327721865	0.007788494532179	0.000214461878828
442	minimi	-2.008128	-2.16703	-16.033916	-0.006122490688036	-0.007811650112467	-0.000236376940483
443	massimi	1.801103	2.122699	-1.850287	0.006058297331989	0.007785840674903	0.000217651291543
443	minimi	-1.971278	-2.167079	-15.074145	-0.006089141567478	-0.007809272714917	-0.00024036797618
444	massimi	1.790964	2.121543	-1.283903	0.00609112471149	0.007802323444772	0.000214104025796
444	minimi	-1.948859	-2.166099	-15.634847	-0.006030522148299	-0.007825762351321	-0.000236226108186
445	massimi	1.787438	2.242286	-1.247836	0.006128814272989	0.007858659404057	0.000212994499297
445	minimi	-1.932936	-2.272914	-15.603597	-0.005987615510789	-0.007783137187107	-0.000235342374093
446	massimi	1.78746	2.371155	0.090542	0.006119263323005	0.007929870564186	0.000217313558766
446	minimi	-1.932954	-2.387797	-16.835972	-0.00595650954805	-0.007679321653685	-0.000239985439069
447	massimi	1.787602	2.500523	2.150181	0.006118807986022	0.007942468134111	0.000208415124466
447	minimi	-1.933048	-2.503145	-18.689541	-0.005980252613001	-0.00751874763604	-0.000230826606227
448	massimi	1.791139	2.628522	5.875179	0.006083172774036	0.007940891443723	0.00020777276278
448	minimi	-1.949007	-2.617155	-22.168797	-0.006024644309572	-0.007420040714357	-0.00022998281253
449	massimi	1.801103	2.628265	4.880755	0.006058297331989	0.007938118008954	0.000217161054369
449	minimi	-1.971278	-2.617077	-21.180014	-0.006089141567478	-0.007417879560668	-0.000239884551288
450	massimi	1.824627	2.628003	5.049397	0.006008511171307	0.007954671712551	0.000208132603736
450	minimi	-2.006969	-2.61693	-21.309192	-0.00612860003875	-0.007434104309445	-0.000230135632752
451	massimi	1.939415	2.006028	-4.16285	0.005168764041144	0.007844015912408	0.000213498376826
451	minimi	-1.984606	-2.008921	-18.068223	-0.005587319894538	-0.007425180984754	-0.000217422143391
452	massimi	1.939789	2.042681	-5.275092	0.005140216670011	0.007756912675806	0.000217796103663
452	minimi	-1.984966	-2.048062	-17.136191	-0.005591082915825	-0.00757938426961	-0.000221904501338
453	massimi	1.940397	2.078943	-4.393131	0.005168209648492	0.007612439573323	0.000211130158626
453	minimi	-1.985571	-2.086801	-18.059062	-0.005588638494825	-0.00767753213363	-0.000215033358038
454	massimi	1.917936	2.118367	-1.373405	0.005221903532022	0.007521539593898	0.000210339419732
454	minimi	-1.960935	-2.12872	-21.189299	-0.00553005002697	-0.0077241075507	-0.000214285010459
455	massimi	1.896113	2.118549	-2.121275	0.005293258476088	0.007517184191521	0.00021787221436934
455	minimi	-1.936926	-2.128934	-20.57257	-0.005474955061229	-0.007720566716609	-0.000221974617771
456	massimi	1.880323	2.118421	-1.815331	0.005342677733573	0.007531406977443	0.000210028031054
456	minimi	-1.918915	-2.128845	-20.946617	-0.005397169986088	-0.00773564394708	-0.00021402327077
457	massimi	1.86576	2.078975	-3.980574	0.005396073416145	0.007622183001115	0.000210133086952
457	minimi	-1.902107	-2.086886	-18.871539	-0.005338271678898	-0.007688924737376	-0.000214182804928
458	massimi	1.865627	2.042681	-4.672165	0.005397891282244	0.007756912675806	0.000217902736081
458	minimi	-1.901969	-2.048062	-18.139327	-0.005308755462184	-0.00757938426961	-0.000221995489337
459	massimi	1.865569	2.005885	-3.636541	0.00539551079184	0.007834295998817	0.000212498127447
459	minimi	-1.901899	-2.008725	-18.994451	-0.005339582047532	-0.007413811895209	-0.000216568412576
460	massimi	1.880224	1.974795	0.190524	0.005342237620945	0.007868435744648	0.000213169870339
460	minimi	-1.918808	-1.975102	-22.509529	-0.005398199492689	-0.007311753709009	-0.000217193553993
461	massimi	1.896113	1.975064	-0.595285	0.005293258476088	0.0078638473606	0.000218125782934
461	minimi	-1.936926	-1.975413	-21.655589	-0.005474955061229	-0.007308448737124	-0.000222230276373
462	massimi	1.917417	1.974724	-0.323684	0.00522345022461	0.007878265782119	0.000213509045204
462	minimi	-1.960425	-1.975102	-21.796077	-0.005529017100328	-0.007323252759315	-0.000217483079869
463	massimi	2.204787	3.200186	-1.326588	0.007507554179844	0.005149173751264	0.000811369640075
463	minimi	-1.951945	-3.333895	-24.880576	-0.008532486874396	-0.006077130189795	-0.000797857003814
464	massimi	2.205061	3.234578	0.084238	0.007496455271075	0.005062114475178	0.000816898741373
464	minimi	-1.952148	-3.363814	-25.967773	-0.008534431709474	-0.006115910412768	-0.000802613034797
465	massimi	2.204707	3.269009	1.529525	0.007509760392033	0.004967004651082	0.000810229564641
465	minimi	-1.951724	-3.393692	-27.052432	-0.00853157303062	-0.006144942809798	-0.000796457486118
466	massimi	2.459544	3.304275	2.754652	0.007544680704134	0.00490500387082	0.000807814022201
466	minimi	-2.211036	-3.424335	-28.199558	-0.008482639870444	-0.006166739561766	-0.000793742299516
467	massimi	2.71575	3.30439	2.792524	0.00759830455075	0.004890836128723	0.000817096173639
467	minimi	-2.4718	-3.424325	-28.520169	-0.008412256396752	-0.006168180699657	-0.000802834877832
468	massimi	2.970976	3.304452	3.247431	0.007639770700111	0.00490693555272	0.000802895385665
468	minimi	-2.731736	-3.424245	-29.220857	-0.008328404248548	-0.006171081174491	-0.000788333932048
469	massimi	3.226072	3.269126	2.22983	0.007669565052136	0.004968780146832	0.0008013784486
469	minimi	-2.991609	-3.39365	-28.810679	-0.008273782108428	-0.006148944900684	-0.000786724887235
470	massimi	3.226144	3.234578	0.610233	0.00767021234444	0.005062114475178	0.000817219101923
470	minimi	-2.9916	-3.363814	-27.551848	-0.008256909101538	-0.006115910412768	-0.000802965309752
471	massimi	3.226632	3.200042	-0.962486	0.007671727252278	0.005147425428958	0.000802523976267
471	minimi	-2.992027	-3.333909	-26.302621	-0.008272824252605	-0.006073155272352	-0.000788129857164
472	massimi	2.971298	3.166918	-2.874384	0.007641776544778	0.005205969123252	0.000804954861162

472	minimi	-2.731974	-3.305357	-24.468724	-0.008327527395766	-0.006046989175938	-0.000790860386221
473	massimi	2.71575	3.167149	-3.327239	0.00759830455075	0.005213639250337	0.000817021698366
473	minimi	-2.4718	-3.305452	-23.770266	-0.008412256396752	-0.00603970413997	-0.000802743495427
474	massimi	2.459575	3.167188	-3.289939	0.007542650490091	0.005207851724178	0.00080986804866
474	minimi	-2.211151	-3.30536	-23.524649	-0.008483492353849	-0.006051281707688	-0.00079626330465
475	massimi	2.055246	1.918696	6.141805	0.007657575473203	0.008424961682106	0.000172095986315
475	minimi	-2.350695	-1.980867	-20.962337	-0.007999448864107	-0.008144914877851	-0.000164958301055
476	massimi	2.05628	1.939057	4.860037	0.007611404782111	0.008419266296526	0.000177144466085
476	minimi	-2.351637	-1.996873	-19.803418	-0.007973888858928	-0.008293666872136	-0.000170307205528
477	massimi	2.057421	1.96744	4.457129	0.007628465112119	0.008351486293313	0.00017210779651
477	minimi	-2.352689	-2.020781	-19.434102	-0.007971663626165	-0.008381264207905	-0.000164749142295
478	massimi	2.066247	1.999725	2.453168	0.007675760128084	0.008305648781652	0.000172098585046
478	minimi	-2.365545	-2.048661	-17.548963	-0.007946906357282	-0.008423670662539	-0.000165060961159
479	massimi	2.075144	1.998689	-1.038947	0.007752634486533	0.008305525849544	0.000177253842962
479	minimi	-2.378328	-2.047904	-14.181312	-0.007942753683968	-0.008424422307833	-0.000170341903927
480	massimi	2.083377	1.997336	-1.946197	0.007797338305502	0.00832573952763	0.000172188908621
480	minimi	-2.390194	-2.046797	-13.358078	-0.007905641079414	-0.008445507788682	-0.000165520111437
481	massimi	2.091767	1.96567	-1.285489	0.007844223610088	0.008371395747191	0.000172369958316
481	minimi	-2.402089	-2.019402	-14.109942	-0.007880461916242	-0.008402899286548	-0.000166099739103
482	massimi	2.092811	1.939057	1.271908	0.007823321553988	0.008419266296526	0.00017711766618
482	minimi	-2.403023	-1.996873	-16.634052	-0.007839336051978	-0.008293666872136	-0.000170164185991
483	massimi	2.09404	1.920024	5.223516	0.007815699679408	0.008404854564433	0.000172335853698
483	minimi	-2.40418	-1.981803	-20.462506	-0.007853263108704	-0.008123082135413	-0.000166286603441
484	massimi	2.084558	1.899611	8.63462	0.007774849668064	0.008389093463301	0.000172151714722
484	minimi	-2.391281	-1.965442	-23.625518	-0.007884192181506	-0.008019974133407	-0.00016578851388
485	massimi	2.075144	1.899	8.208904	0.007752634486533	0.008389077353707	0.000177251381188
485	minimi	-2.378328	-1.965091	-23.115765	-0.007942753683968	-0.008021133319089	-0.000170363107843
486	massimi	2.06509	1.897838	8.465717	0.007698492401423	0.008409498131299	0.000172071847457
486	minimi	-2.364483	-1.964194	-23.248135	-0.007968598891091	-0.00804212518157	-0.000165339819912
487	massimi	2.427579	1.858891	-1.172216	0.006305006509279	0.008254013854415	0.000276814606013
487	minimi	-2.447438	-1.912368	-17.861378	-0.006844278571337	-0.008064389546253	-0.000280084058229
488	massimi	2.427901	1.744974	-1.251495	0.006274742272032	0.008150186160971	0.000288406950916
488	minimi	-2.447669	-1.800506	-17.83178	-0.006840098670796	-0.008165053247878	-0.000291693724042
489	massimi	2.428599	1.631184	1.04634	0.006305288186197	0.007986102681712	0.000281078960951
489	minimi	-2.448285	-1.688658	-20.061415	-0.006844403394772	-0.008205351085705	-0.000284136168997
490	massimi	2.379845	1.521042	3.930863	0.006356568475102	0.007884320124146	0.000282618324525
490	minimi	-2.397813	-1.58042	-23.037757	-0.006800622772979	-0.008219581213069	-0.000285652491691
491	massimi	2.332109	1.521682	2.98928	0.006427342431669	0.007880910021909	0.000288691911032
491	minimi	-2.348361	-1.581078	-22.308137	-0.0067651891814	-0.00821750595874	-0.000291966459834
492	massimi	2.285321	1.521433	2.543912	0.006471526395977	0.007896975250929	0.000283514920233
492	minimi	-2.299844	-1.58084	-22.021282	-0.006701762823275	-0.008235339703413	-0.000286568858249
493	massimi	2.253773	1.631454	-1.348603	0.006522525531474	0.00799861851283	0.000283725056664
493	minimi	-2.26655	-1.688949	-18.410084	-0.006657679407669	-0.008220933395675	-0.000286840610239
494	massimi	2.25355	1.744974	-2.6363	0.006521219368146	0.008150186160971	0.00028812434283
494	minimi	-2.266243	-1.800506	-17.191126	-0.006628464760577	-0.008165053247878	-0.000291404886154
495	massimi	2.253457	1.858587	-2.556453	0.006522623301477	0.008241459825092	0.00027946201765
495	minimi	-2.26606	-1.912043	-17.220752	-0.006657620324189	-0.008048769038079	-0.000282789815396
496	massimi	2.285745	1.976719	-0.644653	0.006471636774135	0.008283596957559	0.000277618731652
496	minimi	-2.300177	-2.028052	-18.86981	-0.006701750128414	-0.007974747958621	-0.000280966198866
497	massimi	2.332109	1.976661	-1.402802	0.006427342431669	0.00827997088938	0.000288235304175
497	minimi	-2.348361	-2.028019	-17.953151	-0.0067651891814	-0.007972854482273	-0.000291532582891
498	massimi	2.379332	1.97672	-1.060877	0.006356381706996	0.008296312756806	0.000276721519982
498	minimi	-2.397391	-2.028081	-18.083111	-0.00680055907789	-0.007990567121429	-0.000280049216347
499	massimi	3.313062	3.13555	-1.590579	0.005407723744583	0.006623897328845	0.000223404769884
499	minimi	-3.232471	-3.477146	-15.363502	-0.00696330354934	-0.006881446787878	-0.000254151597465
500	massimi	3.313391	3.152143	0.248057	0.005402163130781	0.006558925698097	0.000226422850552
500	minimi	-3.232596	-3.503733	-17.104231	-0.006966107882	-0.006897725507537	-0.000257028871279
501	massimi	3.313661	3.167075	2.384861	0.005410101360842	0.006483411799766	0.000220353678994
501	minimi	-3.232685	-3.528439	-19.11895	-0.006964678054533	-0.006902916277646	-0.000250394687367
502	massimi	3.280284	3.181397	4.354116	0.005424086519318	0.00643420477428	0.000219822242309
502	minimi	-3.189462	-3.552429	-21.439307	-0.006923792433477	-0.006908831830889	-0.000249500179273
503	massimi	3.246237	3.181586	4.55155	0.005445675819038	0.006420180289104	0.000226465856999
503	minimi	-3.145647	-3.55256	-22.109422	-0.006864069844705	-0.006906673226845	-0.000257101455649
504	massimi	3.210501	3.181681	5.023228	0.005458562650189	0.006434114067384	0.000221553696901
504	minimi	-3.100206	-3.552603	-23.029421	-0.006793360275916	-0.006912940674003	-0.000251029698473
505	massimi	3.174148	3.167238	3.60006	0.005468880770034	0.006483318427074	0.000223458970252
505	minimi	-3.05413	-3.528536	-22.177721	-0.006747826496744	-0.006906702973848	-0.000253136508459
506	massimi	3.17457	3.152143	1.689956	0.005467725953731	0.006558925698097	0.000226310914375
506	minimi	-3.054368	-3.503733	-20.389942	-0.006734939784525	-0.006897725507537	-0.000256930094671

507	massimi	3.174792	3.135399	-0.160274	0.005471188947819	0.006624019083674	0.000226482806588
507	minimi	-3.054389	-3.477061	-18.637379	-0.006749131563463	-0.006877688473813	-0.000256866164003
508	massimi	3.210877	3.118024	-2.25162	0.005460708229983	0.006668757214623	0.000227007701391
508	minimi	-3.100353	-3.44963	-16.194931	-0.006794579056402	-0.006866750193186	-0.000257754130215
509	massimi	3.246237	3.118226	-2.781223	0.005445675819038	0.006671744844355	0.000226267895691
509	minimi	-3.145647	-3.449793	-15.217065	-0.006864069844705	-0.006861506861671	-0.000256857498064
510	massimi	3.279921	3.118268	-3.230694	0.005421902493498	0.006668615246223	0.000225303517482
510	minimi	-3.189328	-3.449763	-14.294856	-0.006922535206966	-0.006870807774796	-0.000256251881699
511	massimi	3.391769	3.59114	-5.465764	0.008879219636455	0.004721917577569	0.000358633631968
511	minimi	-3.797314	-3.531613	-18.354017	-0.009164317092899	-0.003301593032906	-0.00033904305029
512	massimi	3.392609	3.6781	-4.503759	0.008866815937803	0.004637027277499	0.00035963209028
512	minimi	-3.798206	-3.612296	-19.757005	-0.009167782927814	-0.003331170120945	-0.000340641748423
513	massimi	3.393253	3.76313	-3.528167	0.008879635246325	0.004544675913782	0.000352351484912
513	minimi	-3.798871	-3.691091	-21.139541	-0.009168599056078	-0.00335538940125	-0.000332893004889
514	massimi	3.42291	3.84726	-3.403413	0.008911090391133	0.004483290239501	0.000349598353915
514	minimi	-3.834898	-3.769041	-21.719625	-0.009122672179619	-0.003371712296141	-0.000330528511007
515	massimi	3.452242	3.845986	-3.150783	0.008967607823512	0.004467509197195	0.000359855870028
515	minimi	-3.870458	-3.768002	-22.019984	-0.009061831489551	-0.003371173757603	-0.000340833867516
516	massimi	3.480223	3.844739	-2.490516	0.009022689707399	0.004481182105524	0.000349012427656
516	minimi	-3.904407	-3.766979	-22.693704	-0.00899403491298	-0.003369883137534	-0.000330782157312
517	massimi	3.508067	3.761631	-0.807846	0.009059817048145	0.004542721642281	0.000351290619881
517	minimi	-3.938106	-3.689864	-23.982331	-0.008959083635182	-0.003353692882045	-0.000333433141484
518	massimi	3.508889	3.6781	-1.320771	0.009056902047209	0.004637027277499	0.000359670779435
518	minimi	-3.938967	-3.612296	-23.062478	-0.008944008424618	-0.003331170120945	-0.000340625724966
519	massimi	3.509634	3.592641	-1.818612	0.009054410504617	0.004725226092125	0.000357557391284
519	minimi	-3.939746	-3.532841	-22.123637	-0.008957543444963	-0.003304643795166	-0.000339477983932
520	massimi	3.481145	3.506107	-5.064526	0.009017712810212	0.004785157066712	0.000360298374436
520	minimi	-3.905372	-3.452382	-18.422392	-0.008997998814271	-0.003287748253945	-0.00034183032997
521	massimi	3.452242	3.505006	-7.337223	0.008967607823512	0.004789915510614	0.000359446976953
521	minimi	-3.870458	-3.451503	-16.136023	-0.009061831489551	-0.00327971945842	-0.000340433583139
522	massimi	3.422012	3.503583	-7.378637	0.008910724161895	0.004780161619281	0.000360899679185
522	minimi	-3.833957	-3.450316	-16.0471	-0.009118733730221	-0.003283031781884	-0.000341592062155
523	massimi	3.656881	3.506829	-0.453569	0.007162730065648	0.004351795903296	0.000464460743623
523	minimi	-3.575047	-3.529818	-22.327505	-0.007657560437338	-0.005157747398222	-0.000469427526947
524	massimi	3.65728	3.376388	-1.849849	0.007151617962707	0.004352682268988	0.000475184711644
524	minimi	-3.57543	-3.400974	-20.650353	-0.00765786802872	-0.005266497649656	-0.000480031057814
525	massimi	3.65762	3.244097	-3.23654	0.007159978769833	0.004346560855645	0.000469602496943
525	minimi	-3.575759	-3.270264	-18.951169	-0.00765210353693	-0.005366768301348	-0.000474519923897
526	massimi	3.618907	3.11093	-4.021305	0.007183111210795	0.004345066891975	0.000472488243117
526	minimi	-3.535436	-3.138664	-17.97147	-0.007603585154865	-0.005436785360468	-0.000477317639287
527	massimi	3.581079	3.111223	-3.312414	0.007220976084349	0.004344736715906	0.000474948823903
527	minimi	-3.496029	-3.13891	-18.798201	-0.007535395095142	-0.005449193678554	-0.000479802341576
528	massimi	3.543691	3.111112	-1.822479	0.007247273982633	0.004351568306187	0.000474585574058
528	minimi	-3.457114	-3.138753	-20.374457	-0.007455131646686	-0.005444217699611	-0.000479244231188
529	massimi	3.524519	3.2442	1.272962	0.007265543640427	0.004352565903957	0.000473376092923
529	minimi	-3.436437	-3.270312	-23.869341	-0.007401532994203	-0.005373633454399	-0.000477986201054
530	massimi	3.524449	3.376388	2.376515	0.00726194339421	0.004352682268988	0.000475048130159
530	minimi	-3.436353	-3.400974	-25.285439	-0.007383283451003	-0.005266497649656	-0.000479905602918
531	massimi	3.524251	3.506735	3.484476	0.007262871349384	0.004345796376467	0.000468231394832
531	minimi	-3.436141	-3.529779	-26.67422	-0.007396155098567	-0.005150887766653	-0.000472890859333
532	massimi	3.544037	3.636468	3.069757	0.007244790035642	0.004343792168207	0.000465326836206
532	minimi	-3.457444	-3.657953	-26.454434	-0.007450147924196	-0.005076669618787	-0.000470074331491
533	massimi	3.581079	3.636477	2.328947	0.007220976084349	0.004343364001242	0.000475283982696
533	minimi	-3.496029	-3.657918	-25.627458	-0.007535395095142	-0.005062910954669	-0.000480134283952
534	massimi	3.61849	3.636619	1.615529	0.007185638899073	0.004350283605753	0.000463232458465
534	minimi	-3.535036	-3.658011	-24.796045	-0.007608612618643	-0.005084091981263	-0.00046815069279
535	massimi	1.957491	3.626085	5.543618	0.009513677830124	0.008497229147756	0.000266965992818
535	minimi	-1.996071	-3.62748	-29.53035	-0.010016637835925	-0.009039943784202	-0.000303205370403
536	massimi	1.958402	3.558418	5.001633	0.009492043843864	0.008456738309674	0.00027371043056
536	minimi	-1.996963	-3.571634	-28.791879	-0.010007586913427	-0.009113557973543	-0.000310444977786
537	massimi	1.959302	3.489167	4.539202	0.009511652856752	0.008402698269696	0.000269406657953
537	minimi	-1.997868	-3.514194	-28.099443	-0.010012668165257	-0.009172565065924	-0.000305619506136
538	massimi	1.927813	3.419279	1.446811	0.009584229218509	0.008370734955123	0.000271220014379
538	minimi	-1.954556	-3.456128	-24.894967	-0.010009257879063	-0.009216508016178	-0.000307434240809
539	massimi	1.896473	3.41868	-1.793744	0.009696472065395	0.008363063314011	0.000273562656283
539	minimi	-1.911405	-3.455526	-21.772495	-0.010008647439501	-0.009222566743336	-0.000310297091229
540	massimi	1.864845	3.417799	-4.986534	0.009793117751776	0.008379895329495	0.000273314480974
540	minimi	-1.867955	-3.454665	-18.664326	-0.009991937039647	-0.009226592672571	-0.000309558682713
541	massimi	1.833711	3.488283	-7.798166	0.009859050455188	0.008411177840746	0.000273174202355

541	minimi	-1.824981	-3.513319	-16.167828	-0.009981667159804	-0.009181898604163	-0.000309441004085
542	massimi	1.834673	3.558418	-6.169699	0.009862588298749	0.008456738309673	0.000273574128699
542	minimi	-1.825949	-3.571634	-18.026353	-0.009970156983396	-0.009113557973543	-0.000310306722518
543	massimi	1.8355	3.626977	-3.773964	0.009857177310707	0.00848870272938	0.000270727711553
543	minimi	-1.826755	-3.628363	-20.61852	-0.009977849318028	-0.009030563398638	-0.000307021042685
544	massimi	1.865913	3.695012	-0.753131	0.009791359146905	0.008514197419359	0.000268913379206
544	minimi	-1.869015	-3.684552	-23.751437	-0.009988381680488	-0.00897962717923	-0.000305205332091
545	massimi	1.896473	3.69426	0.158685	0.009696472065395	0.008516993360854	0.000273721901142
545	minimi	-1.911405	-3.68382	-24.578743	-0.010008647439501	-0.008968522405263	-0.000310454607241
546	massimi	1.926739	3.693506	3.115882	0.009586071897106	0.008523442414162	0.000266824739213
546	minimi	-1.95349	-3.683062	-27.417746	-0.010012897311948	-0.008989796456053	-0.000303086716789
547	massimi	2.278082	3.355415	5.467849	0.007221637182803	0.005269493997028	0.000242645599552
547	minimi	-2.164985	-3.469524	-23.622545	-0.00806297571886	-0.006390683643347	-0.000263055100479
548	massimi	2.278475	3.309052	5.373271	0.0072058401372	0.005230274012122	0.000251016077265
548	minimi	-2.165302	-3.429781	-23.148781	-0.008055132859194	-0.006436654802797	-0.00027133368431
549	massimi	2.278814	3.260926	5.339087	0.007223551157919	0.005182739576611	0.000247672317848
549	minimi	-2.165584	-3.388199	-22.710448	-0.008061317868115	-0.00647236847559	-0.000267839455428
550	massimi	2.262074	3.214141	2.930087	0.007284506141755	0.005153714551234	0.000250786093482
550	minimi	-2.142244	-3.347915	-20.136203	-0.008065742651791	-0.006499755142112	-0.000270754826702
551	massimi	2.245175	3.214389	0.321709	0.007377086201208	0.005147545958653	0.000250762300534
551	minimi	-2.118805	-3.348091	-17.766968	-0.008075360388574	-0.006503936970863	-0.000271096070759
552	massimi	2.227474	3.214412	-2.27949	0.007457788617597	0.005159883583899	0.000253547853254
552	minimi	-2.094642	-3.348048	-15.380034	-0.008071975819227	-0.006507991609719	-0.000273262897345
553	massimi	2.209776	3.261086	-5.002027	0.007513653241715	0.005188462325957	0.000252647794935
553	minimi	-2.0705	-3.388277	-13.276923	-0.008070827238885	-0.006480001379594	-0.000272358309093
554	massimi	2.21019	3.309052	-4.664774	0.007519088241305	0.005230274012122	0.000250835726805
554	minimi	-2.070852	-3.429781	-14.018444	-0.008063572511024	-0.006436654802797	-0.000271169866065
555	massimi	2.210481	3.35535	-4.145768	0.007515600324987	0.005263704584442	0.000247632692343
555	minimi	-2.071072	-3.469542	-14.916517	-0.008069202496296	-0.006382984076105	-0.000267585569847
556	massimi	2.227898	3.400874	-1.511495	0.00745958152479	0.005288768295844	0.00024451648731
556	minimi	-2.094988	-3.508471	-17.716034	-0.008070468627507	-0.006350644347834	-0.000264667769176
557	massimi	2.245175	3.400946	0.776154	0.007377086201208	0.005292475455462	0.000251089498984
557	minimi	-2.118805	-3.508483	-19.789623	-0.008075360388574	-0.006344058015397	-0.000271407475063
558	massimi	2.261642	3.400981	3.107192	0.007282731565212	0.005295057753177	0.000241743109703
558	minimi	-2.141891	-3.508439	-21.881314	-0.008067268174159	-0.006359001240109	-0.0002621458080697
559	massimi	2.688687	3.793336	-1.929797	0.004230622491774	0.006719148840591	0.000208300477887
559	minimi	-2.456678	-3.873515	-19.872501	-0.005015183695995	-0.007313856853978	-0.000236230705512
560	massimi	2.689202	3.799439	-3.843093	0.004219759807015	0.00670415014916	0.000210389753337
560	minimi	-2.45713	-3.888658	-17.747715	-0.005015378182772	-0.007402558222079	-0.000238125096331
561	massimi	2.6895	3.803394	-5.157148	0.004230055388012	0.006678360139072	0.000207557426634
561	minimi	-2.457393	-3.901597	-16.191655	-0.005012548760884	-0.007479343392817	-0.000235308545735
562	massimi	2.742094	3.80639	-7.065965	0.004270014651247	0.006663662369127	0.00020715558736
562	minimi	-2.500912	-3.913535	-14.254343	-0.004983330672783	-0.007533802538632	-0.000234634177099
563	massimi	2.794109	3.806413	-8.050369	0.004331320309903	0.006658156286149	0.000210423568029
563	minimi	-2.543947	-3.913414	-13.483491	-0.004942110431515	-0.007541218739606	-0.0002381811110529
564	massimi	2.844758	3.806293	-8.037337	0.004385682844618	0.006668251822012	0.000206859917798
564	minimi	-2.585774	-3.913164	-13.679573	-0.004892963307916	-0.007540200405551	-0.000233836335744
565	massimi	2.895054	3.80334	-5.357807	0.004422729822678	0.006682602265508	0.000207029166858
565	minimi	-2.627303	-3.901381	-16.784877	-0.004860410444077	-0.00748525635804	-0.000233876358878
566	massimi	2.895475	3.799439	-3.200628	0.004425886758168	0.00670415014916	0.000210408737591
566	minimi	-2.627678	-3.888658	-19.184164	-0.004849424458452	-0.007402558222079	-0.000238176807592
567	massimi	2.895889	3.79338	-1.030985	0.004422280971043	0.006714901253199	0.000207778598724
567	minimi	-2.62804	-3.873723	-21.565194	-0.004857893761094	-0.0073079384278	-0.000234804899269
568	massimi	2.845251	3.790024	0.62314	0.004385245994398	0.006724617259942	0.000208207698451
568	minimi	-2.586209	-3.861427	-23.247814	-0.004890615936789	-0.007247876846625	-0.000235506499734
569	massimi	2.794109	3.790165	0.145107	0.004331320309903	0.006723544709155	0.000210374973887
569	minimi	-2.543947	-3.861441	-22.586848	-0.004942110431515	-0.00723452648714	-0.000238120844382
570	massimi	2.741607	3.790152	-0.121124	0.004270516975338	0.006729216575903	0.00020849706711
570	minimi	-2.500483	-3.86128	-22.106947	-0.004985743517781	-0.00725428457662	-0.000236298068809
571	massimi	3.243145	3.237754	-1.164605	0.001026816758986	0.005075222131954	0.000472494248768
571	minimi	-2.885333	-3.931391	-5.122837	-0.004285224851796	-0.006047465665512	-0.000430957008125
572	massimi	3.243541	3.283449	0.604988	0.001027826680991	0.005046731796243	0.000484855034705
572	minimi	-2.885364	-3.963445	-6.571589	-0.004286231876283	-0.00604965632496	-0.00044144894171
573	massimi	3.244136	3.328135	2.529678	0.001031920756127	0.005010115032095	0.000473779145365
573	minimi	-2.885579	-3.994066	-8.165894	-0.004287359411928	-0.006042105213177	-0.000430876809167
574	massimi	3.090384	3.37292	4.425021	0.001035800359573	0.004984523631724	0.000476705248056
574	minimi	-2.745751	-4.024528	-10.776891	-0.00426957324286	-0.006038692829518	-0.000432991506512
575	massimi	2.935889	3.373098	4.446016	0.001039868056033	0.004972064227755	0.000484617605338
575	minimi	-2.605335	-4.024552	-11.842893	-0.004243337585758	-0.006034291297656	-0.000441277614175

576	massimi	2.779628	3.373239	4.510535	0.001042301363474	0.004976772879169	0.000482562693729
576	minimi	-2.46336	-4.024484	-12.942503	-0.004210307927655	-0.006040426839485	-0.000438185364356
577	massimi	2.622465	3.328312	2.716319	0.001046352526749	0.005002952694288	0.000484317710839
577	minimi	-2.320529	-3.994027	-12.516276	-0.004190477441641	-0.006043706083795	-0.000440220961041
578	massimi	2.623197	3.283449	0.939237	0.001047900293632	0.005046731796243	0.000484473692734
578	minimi	-2.320867	-3.963445	-11.070122	-0.004183719895666	-0.00604965632496	-0.000441110843916
579	massimi	2.623492	3.237603	-0.726216	0.001050558420718	0.005082388099448	0.000482876161206
579	minimi	-2.320811	-3.931454	-9.724967	-0.004191713898599	-0.006045868424582	-0.000440144506962
580	massimi	2.780232	3.19183	-2.315443	0.001046974243014	0.005105084543938	0.000480207065549
580	minimi	-2.463521	-3.899314	-7.420085	-0.004212237270352	-0.006044970563813	-0.000438286816651
581	massimi	2.935889	3.192057	-2.467571	0.001039868056033	0.005101380097483	0.00048471116475
581	minimi	-2.605335	-3.899359	-6.233037	-0.004243337585758	-0.006041021574125	-0.0004412822141
582	massimi	3.08979	3.192063	-2.579579	0.001031095204901	0.005097327235655	0.000474482100864
582	minimi	-2.7456	-3.899184	-5.075852	-0.00426761162503	-0.006046698018052	-0.000433225439795
583	massimi	3.237559	1.518604	-0.116437	0.010720527772516	0.003770216736622	0.000314276286822
583	minimi	-2.866796	-1.691734	-15.665114	-0.01171813342683	-0.005004023127724	-0.000313462204511
584	massimi	3.237858	1.512505	-0.198197	0.010708902710474	0.003743378932503	0.000319990752815
584	minimi	-2.866993	-1.685269	-15.169678	-0.011712776637795	-0.005050746078864	-0.000318288403968
585	massimi	3.238044	1.505893	-0.223106	0.010724266941921	0.003711107450401	0.000313645464125
585	minimi	-2.867092	-1.678184	-14.709537	-0.011718001772181	-0.005089929664068	-0.000312484556094
586	massimi	3.230725	1.499273	-0.894352	0.010752655972448	0.003691955209473	0.000314181812189
586	minimi	-2.860124	-1.671	-10.897265	-0.011697597238301	-0.005119469848194	-0.000312585002409
587	massimi	3.223077	1.499385	-6.184834	0.010796737248255	0.003687144128806	0.000319946423842
587	minimi	-2.852956	-1.670912	-8.901192	-0.011670467346877	-0.005123794572019	-0.000318279586105
588	massimi	3.214094	1.499424	-3.649662	0.010823429302358	0.003695021591961	0.000316172729555
588	minimi	-2.844684	-1.670744	-11.709291	-0.011624540975698	-0.005125123151649	-0.000313832899782
589	massimi	3.204844	1.505972	-0.580859	0.01084435162958	0.003713939794487	0.000317229299061
589	minimi	-2.836242	-1.678022	-15.487423	-0.01159606536934	-0.005095152128894	-0.000314731004859
590	massimi	3.205168	1.512505	-0.935504	0.010841726086476	0.003743378932503	0.000319860980692
590	minimi	-2.836463	-1.685269	-15.568158	-0.011581844605765	-0.005050746078864	-0.000318207052395
591	massimi	3.205347	1.518543	-1.146471	0.010848098246301	0.003768129293381	0.00031786101311
591	minimi	-2.836556	-1.691914	-15.770719	-0.011595941162007	-0.004999545563744	-0.000315709544628
592	massimi	3.21439	1.528599	-2.886952	0.010826889516714	0.003785993960518	0.00031730951241
592	minimi	-2.844869	-1.702487	-14.171264	-0.011624424839262	-0.004967616684684	-0.000315593945678
593	massimi	3.223077	1.528673	-3.464688	0.010796737248255	0.003787486366887	0.000319905281309
593	minimi	-2.852956	-1.70236	-13.320823	-0.011670467346877	-0.004960381402068	-0.000318215841903
594	massimi	3.230434	1.528708	-2.769185	0.010749199881506	0.003788252507356	0.000315317704337
594	minimi	-2.859945	-1.70219	-13.721696	-0.011697717498152	-0.00497246215249	-0.000314345157598
595	massimi	2.817873	0.462458	2.974062	0.005632541198575	-0.000279875236505	0.000470443953424
595	minimi	-2.377827	-0.596182	-9.74906	-0.006623177130732	-0.002661290523045	-0.000432183263067
596	massimi	2.81796	0.326306	3.139129	0.005628561479435	-0.000282030625265	0.000476914489541
596	minimi	-2.377853	-0.447443	-8.954162	-0.006617185709186	-0.002686385478078	-0.000437236716917
597	massimi	2.817948	0.199958	3.306897	0.005639650829737	-0.000283715145454	0.000471315696754
597	minimi	-2.37777	-0.308434	-8.154424	-0.006621497940417	-0.002707170274378	-0.000432811822453
598	massimi	2.813228	0.122359	1.331517	0.005656785742747	-0.000286348777438	0.000471575901919
598	minimi	-2.385595	-0.218078	-5.520573	-0.006621821608003	-0.002720875654328	-0.000432641573124
599	massimi	2.809713	0.121872	-0.790618	0.005681187516411	-0.000289342908179	0.000476893028713
599	minimi	-2.394749	-0.217379	-3.708424	-0.006624892868028	-0.002719974132284	-0.000437250323433
600	massimi	2.80655	0.121327	-1.447414	0.005696440222894	-0.00029173211791	0.000471362611112
600	minimi	-2.404514	-0.216591	-3.354416	-0.006617295098409	-0.002718286416022	-0.00043159523983
601	massimi	2.804707	0.200476	-0.601978	0.005709648252709	-0.000288684362214	0.00047093176315
601	minimi	-2.415728	-0.308681	-5.472139	-0.006613039110938	-0.002704782598229	-0.000430928468223
602	massimi	2.804793	0.326306	-1.057123	0.005711271749507	-0.000282030625265	0.000476928392256
602	minimi	-2.415726	-0.447443	-5.98466	-0.006606312747313	-0.002686385478078	-0.000437304906698
603	massimi	2.804766	0.462126	-1.489803	0.005716760799752	-0.000274920071924	0.000470059928756
603	minimi	-2.415655	-0.59612	-6.511785	-0.006611362836503	-0.002663664147014	-0.000430299817773
604	massimi	2.806588	0.599097	-2.142601	0.005703011145421	-0.000271678377457	0.000469793395154
604	minimi	-2.404473	-0.745883	-6.517457	-0.006615745809783	-0.00264830098038	-0.000430463738665
605	massimi	2.809713	0.599239	-1.298467	0.005681187516411	-0.000273593283033	0.000476949841243
605	minimi	-2.394749	-0.745787	-7.059307	-0.006624892868028	-0.002642140525486	-0.00043729128834
606	massimi	2.813186	0.59965	0.691076	0.005650216434669	-0.000277036333923	0.000470006777044
606	minimi	-2.385632	-0.745981	-8.738361	-0.006623372511078	-0.002645737126081	-0.000431510163043
607	massimi	4.89186	1.004244	-1.366192	0.010839853511639	0.006716573624586	0.000201286084515
607	minimi	-4.855866	-0.965797	-14.510042	-0.010828736961369	-0.006517325424504	-0.000194244908753
608	massimi	4.891908	1.002634	-2.272875	0.010827498470962	0.006687512552137	0.000194971560742
608	minimi	-4.855937	-0.961884	-13.65504	-0.010825553878231	-0.00656157571551	-0.000187818980876
609	massimi	4.891631	1.001246	-2.285581	0.010840514187046	0.006647682653842	0.00020159979339
609	minimi	-4.855682	-0.958217	-13.672428	-0.010829770507808	-0.006595260018626	-0.00019464042405
610	massimi	4.953331	1.00167	-3.628057	0.010864106945288	0.006620732670848	0.000197850951173

610	minimi	-4.919657	-0.956371	-12.327576	-0.010804375660236	-0.006617295937771	-0.00019089909234
611	massimi	5.013507	1.001793	-3.508534	0.010902287502075	0.006607649356829	0.000195276186951
611	minimi	-4.98211	-0.956478	-12.414634	-0.010769046124066	-0.006612994809969	-0.000188122995236
612	massimi	5.070596	1.001883	-0.760768	0.010922910696857	0.006614733900938	0.00018818791172
612	minimi	-5.041497	-0.956548	-15.108348	-0.01071637382878	-0.006610902669703	-0.000181173024304
613	massimi	5.126253	1.001475	1.062163	0.010938963874562	0.006642139805102	0.00018420845343
613	minimi	-5.099468	-0.958426	-16.84699	-0.010683531565267	-0.006589352683207	-0.000177135636867
614	massimi	5.126181	1.002634	0.566505	0.010933808884132	0.006687512552137	0.000195601253355
614	minimi	-5.099415	-0.961884	-16.321216	-0.010669799543046	-0.00656157571551	-0.000188452780887
615	massimi	5.126025	1.003945	0.535759	0.010939624383156	0.006722117743813	0.000183896000535
615	minimi	-5.099285	-0.965518	-16.238811	-0.010684564944893	-0.006523234030408	-0.00017674137755
616	massimi	5.07046	1.011968	-2.353333	0.010923520987403	0.006744899974945	0.000187625028544
616	minimi	-5.041388	-0.975878	-13.352095	-0.010717328624163	-0.006497147482842	-0.000180462895052
617	massimi	5.013507	1.01273	-3.564598	0.010902287502075	0.006740835921016	0.000195296590189
617	minimi	-4.98211	-0.976619	-12.19486	-0.010769046124066	-0.006484116625801	-0.000188148729571
618	massimi	4.953467	1.013516	-2.984991	0.010863496562378	0.006738898910222	0.00019728680919
618	minimi	-4.919766	-0.977391	-12.806955	-0.010803420772489	-0.006490751919961	-0.000190187704281
619	massimi	4.377586	1.218465	-4.110415	0.010625510888354	0.005294223747128	0.000176404485937
619	minimi	-4.394037	-1.189594	-18.531336	-0.010721710066746	-0.004797744626583	-0.000171630782931
620	massimi	4.37759	1.215657	-4.324047	0.010609961631736	0.005244436490232	0.000170942460235
620	minimi	-4.39406	-1.185236	-18.459859	-0.010719855702409	-0.004855442767076	-0.000166173512088
621	massimi	4.377308	1.212675	-4.407152	0.010625488932976	0.005186205159552	0.000176835104034
621	minimi	-4.393793	-1.180721	-18.487183	-0.010722839835476	-0.0049053233597	-0.000172122472237
622	massimi	4.430419	1.209806	-6.971135	0.010665573387063	0.005147018493417	0.000173606467076
622	minimi	-4.448446	-1.176331	-16.022729	-0.01069090634271	-0.004938228019814	-0.000168933965541
623	massimi	4.48221	1.2099	-7.732631	0.010728668797675	0.005133454999668	0.000171204101789
623	minimi	-4.501768	-1.176436	-15.25019	-0.010645715696822	-0.004937915770919	-0.000166431884396
624	massimi	4.531274	1.209942	-6.112835	0.010774483566576	0.005142257676728	0.000165145577066
624	minimi	-4.552351	-1.176488	-16.827166	-0.01058338001618	-0.004933221597398	-0.000160512338384
625	massimi	4.579078	1.212768	-3.900272	0.010807149431257	0.005181806720805	0.000161607677511
625	minimi	-4.601674	-1.180828	-18.886244	-0.010544083313624	-0.004900697999703	-0.000156965716219
626	massimi	4.578979	1.215657	-4.508316	0.010804795116897	0.005244436490231	0.000171493883471
626	minimi	-4.60159	-1.185236	-18.167757	-0.010529324077389	-0.004855442767076	-0.000166722376672
627	massimi	4.578801	1.21833	-4.481537	0.010807126183515	0.005298621584316	0.000161176574131
627	minimi	-4.60143	-1.189447	-18.052395	-0.010545221789989	-0.004802369385021	-0.000165145577066
628	massimi	4.531109	1.221345	-7.536842	0.010774462325101	0.005334543386582	0.000164369937804
628	minimi	-4.552206	-1.194013	-14.897561	-0.010584422881305	-0.004766487616954	-0.000159626775041
629	massimi	4.48221	1.221505	-8.424424	0.010728668797675	0.005334603736284	0.000171232176124
629	minimi	-4.501768	-1.194182	-14.052733	-0.010645715696822	-0.004753699397355	-0.000166463938572
630	massimi	4.430585	1.221627	-6.401972	0.010665595912993	0.005329783656367	0.000172831302882
630	minimi	-4.448592	-1.194317	-16.086294	-0.01068986276204	-0.004761482281012	-0.000168048877265
631	massimi	3.500821	1.212355	-4.267943	0.010540262737174	0.004432887783792	0.000156758429576
631	minimi	-3.531481	-1.201754	-18.74321	-0.010715436519204	-0.00374264663314	-0.000150881391298
632	massimi	3.500758	1.209259	-4.610443	0.010524289882598	0.00438515457996	0.000153719952371
632	minimi	-3.531427	-1.196751	-18.605423	-0.010713670948068	-0.003804546886578	-0.000147843127649
633	massimi	3.500537	1.205954	-4.703188	0.010539489926544	0.004330364208584	0.000157254567117
633	minimi	-3.53121	-1.191548	-18.68497	-0.010716382759134	-0.003860325118065	-0.000151402637384
634	massimi	3.509892	1.202744	-7.977885	0.010580228541246	0.004292927445964	0.000155172445199
634	minimi	-3.542478	-1.186443	-15.596618	-0.010683498782718	-0.003896644587221	-0.000149358246922
635	massimi	3.518364	1.202809	-9.124567	0.010644577444757	0.00427962327559	0.000153887649775
635	minimi	-3.552848	-1.186529	-14.463721	-0.010636956805584	-0.003897154352076	-0.000148007751228
636	massimi	3.536155	1.202821	-7.24033	0.01069178232259	0.004286748440286	0.000149528863216
636	minimi	-3.572517	-1.186558	-16.329225	-0.01057328307682	-0.003890443018521	-0.000143783892939
637	massimi	3.568371	1.206006	-4.5727	0.010725158121344	0.004324655561045	0.000147097901268
637	minimi	-3.606602	-1.191622	-18.805553	-0.01053304155574	-0.003854595623988	-0.000141370577294
638	massimi	3.568293	1.209259	-4.714011	0.010722618538293	0.00438515457996	0.000154087805802
638	minimi	-3.60653	-1.196751	-18.491949	-0.010518026440059	-0.003804546886578	-0.000148206469684
639	massimi	3.568143	1.212281	-4.56386	0.010724387249897	0.004438595533445	0.000146600505028
639	minimi	-3.606389	-1.201658	-18.437389	-0.010533989734853	-0.003748375229331	-0.00014084807251
640	massimi	3.53602	1.217486	-7.539831	0.01069106973567	0.004473471038662	0.000148634239966
640	minimi	-3.57239	-1.208757	-15.275072	-0.010574158763546	-0.003709897832285	-0.000142844075992
641	massimi	3.518364	1.21755	-8.549945	0.010644577444757	0.004473283825302	0.000153920018014
641	minimi	-3.552848	-1.208838	-14.283594	-0.010636956805584	-0.003696841738085	-0.000148041755721
642	massimi	3.510061	1.217626	-6.793286	0.010580942201852	0.004467293654649	0.000154279072007
642	minimi	-3.542639	-1.208935	-16.026566	-0.010682624169677	-0.003703697885251	-0.000148419680032
643	massimi	3.315504	1.2124	-4.394446	0.010544454046091	0.004178990475725	0.000165294581274
643	minimi	-3.377581	-1.214729	-18.658025	-0.010730625515243	-0.003477212955347	-0.000155247700814
644	massimi	3.315538	1.211274	-4.6208	0.01052826647066	0.004129194430691	0.000164610857014
644	minimi	-3.37762	-1.210346	-18.64009	-0.010728684588208	-0.003537286407674	-0.000154561861625

645	massimi	3.315446	1.209981	-4.673018	0.010543294198747	0.004072766667121	0.000165785130348
645	minimi	-3.377524	-1.205796	-18.763794	-0.010731218176229	-0.003591681487734	-0.000155740112714
646	massimi	3.313314	1.208804	-7.860351	0.010584146419076	0.004035371425307	0.000164652123516
646	minimi	-3.378673	-1.201365	-15.769927	-0.010698276730726	-0.003628218658822	-0.000154662944627
647	massimi	3.310448	1.208795	-9.221083	0.01064882351461	0.004024488971439	0.000164701411823
647	minimi	-3.379064	-1.201397	-14.426459	-0.010651796390607	-0.003631206702478	-0.000154647867483
648	massimi	3.305775	1.208736	-7.479335	0.010696349940042	0.004033581082431	0.000161381534458
648	minimi	-3.377604	-1.201373	-16.152874	-0.010588160592177	-0.003626437117972	-0.000151530101309
649	massimi	3.300346	1.20994	-4.671046	0.010729836682206	0.004071112877389	0.000159898658698
649	minimi	-3.375372	-1.2058	-18.769631	-0.010547851612137	-0.003590035830414	-0.000150101574159
650	massimi	3.300381	1.211274	-4.711679	0.010727117607572	0.004129194430691	0.000164824061111
650	minimi	-3.375405	-1.210346	-18.553075	-0.010532633442961	-0.003537286407674	-0.000154766089215
651	massimi	3.300274	1.212438	-4.532559	0.010728678458299	0.00418064313161	0.0001594065751
651	minimi	-3.3753	-1.214723	-18.523776	-0.010548445896559	-0.003478857478821	-0.000149607627736
652	massimi	3.305734	1.217805	-7.470844	0.010695279526852	0.004215323049614	0.000160496563621
652	minimi	-3.377564	-1.223315	-15.392026	-0.010588709365099	-0.003440013743906	-0.000150641777512
653	massimi	3.310448	1.217513	-8.672249	0.01064882351461	0.004217514778558	0.000164733425842
653	minimi	-3.379064	-1.223056	-14.205854	-0.010651796390607	-0.003429330227437	-0.000154680002897
654	massimi	3.313351	1.21723	-7.045	0.01058521773113	0.00421353475456	0.000163768683666
654	minimi	-3.37871	-1.222815	-15.81594	-0.010697728856668	-0.003438234250879	-0.000153776151816
655	massimi	3.137537	1.183699	-4.562194	0.010538740293087	0.004166573445684	0.000159802857491
655	minimi	-3.249608	-1.205649	-18.402336	-0.010756790638236	-0.003607409933558	-0.000146248523726
656	massimi	3.137759	1.183636	-4.666282	0.010522600663203	0.004112511789772	0.000161165206953
656	minimi	-3.249826	-1.201199	-18.46044	-0.010754591599734	-0.003662722647968	-0.00014764257379
657	massimi	3.137875	1.183356	-4.456113	0.010537454673561	0.004051860728433	0.000160307569417
657	minimi	-3.249926	-1.196519	-18.800478	-0.010756836744564	-0.003712170401938	-0.00014671797896
658	massimi	3.129052	1.183123	-7.307589	0.010577730748639	0.004014261785235	0.000160075746082
658	minimi	-3.24554	-1.19189	-16.106865	-0.0107237323891066	-0.003748073602041	-0.000146569117689
659	massimi	3.119452	1.183028	-9.089361	0.010641594451193	0.004008265566869	0.000161182609301
659	minimi	-3.240338	-1.191866	-14.35286	-0.010677215758175	-0.003755809328281	-0.000147653217563
660	massimi	3.108421	1.182887	-7.45949	0.010688319426172	0.004022179673652	0.000159036054205
660	minimi	-3.233629	-1.191786	-15.978094	-0.010613511524877	-0.003756096957245	-0.000145772105045
661	massimi	3.101089	1.18321	-4.604271	0.010721235076023	0.004059175051267	0.000158435774255
661	minimi	-3.230586	-1.196452	-18.698618	-0.010573013606483	-0.003719582168165	-0.000145282990149
662	massimi	3.101175	1.183636	-4.574646	0.010718353664633	0.004112511789772	0.0001612338709488
662	minimi	-3.23066	-1.201199	-18.598381	-0.010557463964529	-0.003662722647968	-0.000147694581593
663	massimi	3.101123	1.183853	-4.266176	0.010719950171558	0.004159262927081	0.000157929149303
663	minimi	-3.2306	-1.205725	-18.744653	-0.010573060427872	-0.003600001971564	-0.000144811621888
664	massimi	3.108443	1.185684	-6.895462	0.010687132137976	0.004193422622818	0.000158125039987
664	minimi	-3.23364	-1.211877	-15.957504	-0.01061355465138	-0.003560962624936	-0.000144924550508
665	massimi	3.119452	1.185062	-8.642254	0.010641594451193	0.004200438290536	0.000161215559895
665	minimi	-3.240338	-1.211317	-14.215274	-0.010677215758175	-0.003555101415312	-0.000147683870576
666	massimi	3.128853	1.184445	-7.278065	0.01057891843275	0.004201333640275	0.000159166645104
666	minimi	-3.245353	-1.21077	-15.551771	-0.010723681160478	-0.003568979109178	-0.000145723476392
667	massimi	2.901566	1.943556	-0.859378	0.007890139158412	0.012439166506101	0.000163341670604
667	minimi	-2.942516	-1.857533	-12.697095	-0.007815406759005	-0.012259961290909	-0.00016588804571
668	massimi	2.986309	1.845592	0.220579	0.007925568830057	0.012309958139491	0.00015303888325
668	minimi	-3.025676	-1.76159	-13.718107	-0.00766918338879	-0.012367189672548	-0.000156290157268
669	massimi	2.986309	2.033593	5.461381	0.007925568830057	0.012407288423497	0.000142453344509
669	minimi	-3.025676	-1.945912	-18.732501	-0.00766918338879	-0.011993969199276	-0.000144729480246
670	massimi	2.903375	2.035115	6.46965	0.007928223389359	0.012504850360958	0.000160638887615
670	minimi	-2.944244	-1.947437	-19.852992	-0.007773532643175	-0.012156357610585	-0.000163325056508
671	massimi	3.06568	1.943556	1.931547	0.00798684504982	0.012439166506101	0.00013294357933
671	minimi	-3.103389	-1.857533	-15.202875	-0.007548753684614	-0.012259961290909	-0.000135926604264
672	massimi	3.066395	1.848044	4.058976	0.007971338918458	0.012435431561785	0.000157154774776
672	minimi	-3.104043	-1.764026	-17.383993	-0.007609537348061	-0.012422604998646	-0.000160413045335
673	massimi	3.064674	2.032723	5.869259	0.008021559564159	0.012526448408411	0.000152236449422
673	minimi	-3.102475	-1.944988	-18.969057	-0.007661060133837	-0.012179662161308	-0.000155041756512
674	massimi	2.901662	1.845674	-2.296261	0.007956322259083	0.012457006536656	0.000165555643604
674	minimi	-2.942683	-1.7616	-11.312299	-0.007802933652974	-0.012445886476786	-0.000168694775966
675	massimi	2.981336	1.724718	-1.398132	0.006739832302244	0.012406263997276	0.000136522168236
675	minimi	-2.90122	-1.552713	-12.909751	-0.00666447247283	-0.012321209483272	-0.000128427338429
676	massimi	3.042384	1.746229	4.922449	0.006772146342174	0.012117625159967	0.000119451567047
676	minimi	-2.967187	-1.568925	-19.103191	-0.006503486894447	-0.012283481770531	-0.00011917676257
677	massimi	3.042384	1.697904	-1.220716	0.006772146342174	0.012534215029591	0.000125211582764
677	minimi	-2.967187	-1.531926	-12.852567	-0.006503486894447	-0.012199351842079	-0.000115727883029
678	massimi	2.981932	1.69872	-2.721717	0.00678505636718	0.012598274034216	0.000136275060631
678	minimi	-2.901687	-1.532589	-11.468331	-0.006625014572307	-0.012333446660984	-0.000126785225714
679	massimi	3.097989	1.724718	2.462632	0.006806103999986	0.012406263997276	0.000107829987578

679	minimi	-3.027854	-1.552713	-16.47172	-0.006344089474839	-0.012321209483272	-0.000098901095666
680	massimi	3.097799	1.74662	6.553716	0.006822888525285	0.012301109525301	0.000126007223944
680	minimi	-3.02747	-1.569221	-20.55354	-0.006442458252874	-0.012393468993227	-0.000117195532296
681	massimi	3.098219	1.698687	1.5808	0.006823189863495	0.012594730112943	0.000128529847909
681	minimi	-3.028192	-1.532663	-15.47373	-0.006443377614671	-0.012331690946835	-0.000118812443737
682	massimi	2.982342	1.746998	5.417065	0.006785475893731	0.012297547288477	0.000133840309374
682	minimi	-2.902401	-1.569706	-19.714006	-0.006626052122445	-0.012391694963526	-0.00012525618698
683	massimi	2.593258	2.335609	-2.035049	0.006115414470854	0.010064195240665	0.000197486616577
683	minimi	-2.685494	-2.289741	-14.661569	-0.006224628741412	-0.009767141355237	-0.000194362331837
684	massimi	2.689493	2.235386	-6.161088	0.006246918550744	0.009936490747028	0.000189734876238
684	minimi	-2.783345	-2.187883	-10.617164	-0.006124181228375	-0.009941756246572	-0.000187391994581
685	massimi	2.689493	2.426461	2.519701	0.006246918550744	0.010061501921749	0.000176866764473
685	minimi	-2.783345	-2.382423	-18.922654	-0.006124181228375	-0.009465978866923	-0.000174003936612
686	massimi	2.594882	2.427884	3.797494	0.006193112728507	0.010134141354409	0.000197956738557
686	minimi	-2.687101	-2.383885	-20.230814	-0.006200934301738	-0.009621396960727	-0.000194894729655
687	massimi	2.784228	2.335609	-3.209462	0.006392850582721	0.010064195240665	0.000169450817896
687	minimi	-2.879518	-2.289741	-13.35065	-0.006038136351616	-0.009767141355237	-0.000167367518669
688	massimi	2.784928	2.237743	-4.1284	0.006343804771492	0.010044969487451	0.000196281148988
688	minimi	-2.880179	-2.190297	-12.542508	-0.006087191933028	-0.00996079608268	-0.000193744690181
689	massimi	2.782952	2.425996	1.670561	0.006373032602837	0.01015097748217	0.000190300169529
689	minimi	-2.878285	-2.381863	-17.968143	-0.00611857821589	-0.009639050028954	-0.000187522189451
690	massimi	2.593328	2.235897	-4.735668	0.006208998376558	0.010061796794088	0.000203934102674
690	minimi	-2.685627	-2.188317	-12.070978	-0.006218978401306	-0.009978440329783	-0.000201113615042
691	massimi	2.914796	2.034243	-7.46876	0.00535687854845	0.010098815907592	0.000191053293219
691	minimi	-2.870327	-1.893385	-13.254438	-0.005469426578194	-0.00985711720929	-0.000183132481963
692	massimi	3.006039	2.055944	-4.853139	0.005499829907948	0.009862810107827	0.000173649274281
692	minimi	-2.966305	-1.909968	-15.87367	-0.005317957787566	-0.010003977724389	-0.000166309400267
693	massimi	3.006039	2.008066	-2.831267	0.005499829907948	0.010203955619779	0.000178601676063
693	minimi	-2.966305	-1.872923	-17.590178	-0.005317957787566	-0.009582523432531	-0.000169665077333
694	massimi	2.915455	2.008952	-3.1055	0.005443876245739	0.010255935611552	0.000194558756937
694	minimi	-2.870889	-1.873696	-17.368463	-0.00542809451737	-0.009740821758971	-0.000185495783497
695	massimi	3.092311	2.034243	-6.580556	0.005643949405954	0.010098815907592	0.000161554624545
695	minimi	-3.057389	-1.893385	-13.940368	-0.005167619591762	-0.00985711720929	-0.000153193098876
696	massimi	3.091904	2.056429	-4.618141	0.00560748405676	0.010012582334949	0.000184205430311
696	minimi	-3.05682	-1.910395	-15.958444	-0.005256049114002	-0.010041466574786	-0.00017576391051
697	massimi	3.092338	2.00903	-1.925393	0.005607740307262	0.010252827452153	0.000186497400963
697	minimi	-3.057502	-1.873831	-18.347433	-0.005258061596943	-0.009738924147065	-0.00017731418102
698	massimi	2.915866	2.056864	-4.367348	0.005444093851021	0.010009470716662	0.000192256010211
698	minimi	-2.871547	-1.910886	-16.410374	-0.005430068355091	-0.010039565503992	-0.000183934736912
699	massimi	3.83554	3.58362	3.689016	0.008659760061752	0.009705512422574	0.000390927565947
699	minimi	-3.717135	-3.336965	-24.775554	-0.009061243345602	-0.009557058383005	-0.000359573472721
700	massimi	3.945676	3.532874	1.760708	0.008684639026543	0.009939581092235	0.000385835161082
700	minimi	-3.837848	-3.297043	-22.862541	-0.00887998488879	-0.00958498934162	-0.000352841400344
701	massimi	3.835761	3.533327	1.358276	0.008682951437052	0.009871732374281	0.000397033054321
701	minimi	-3.717281	-3.297397	-22.372298	-0.009009381901713	-0.00959230524277	-0.000363883297482
702	massimi	3.945676	3.629624	6.382019	0.008684639026543	0.009471435428745	0.000363865053855
702	minimi	-3.837848	-3.37249	-27.580701	-0.00887998488879	-0.009529120932899	-0.000333153100623
703	massimi	4.05072	3.58362	5.384221	0.008709719754802	0.009705512422574	0.000357664986792
703	minimi	-3.953618	-3.336965	-26.5982	-0.008698925783885	-0.009557058383005	-0.000325313366047
704	massimi	4.050366	3.629819	6.821568	0.008714688841256	0.009574498722621	0.000376539406822
704	minimi	-3.953133	-3.372641	-28.059481	-0.008779351767459	-0.00955683912957	-0.000343859082111
705	massimi	4.051562	3.533635	3.952675	0.008714417849777	0.009867849864855	0.000384879972348
705	minimi	-3.954507	-3.297782	-25.093912	-0.008779308514764	-0.009588123059255	-0.000351365597614
706	massimi	3.836941	3.630133	6.28918	0.008682711604714	0.009570601831708	0.000388781043572
706	minimi	-3.718638	-3.373033	-27.399879	-0.00900936980816	-0.009552642564566	-0.000356465336757
707	massimi	2.068575	2.373111	-3.372065	0.005919253551488	0.008244103475956	0.000217805975868
707	minimi	-2.171703	-2.361056	-13.661174	-0.006132021715414	-0.007802858441603	-0.000215335665838
708	massimi	2.097162	2.26351	-6.671367	0.006041310518877	0.008103951043292	0.00021433127121
708	minimi	-2.201498	-2.250222	-10.587777	-0.006016003622369	-0.007973876742305	-0.000212508604415
709	massimi	2.097162	2.474331	0.081284	0.006041310518877	0.008277439744283	0.000201182157414
709	minimi	-2.201498	-2.46356	-16.782958	-0.006016003622369	-0.007530743102239	-0.00019922837108
710	massimi	2.069522	2.475324	1.244434	0.005998210537704	0.008329025067907	0.00022307080728
710	minimi	-2.172661	-2.464616	-17.922063	-0.006106882946224	-0.007666282552093	-0.000220847525786
711	massimi	2.173398	2.373111	-4.040855	0.006178758309707	0.008244103475956	0.000197967107677
711	minimi	-2.278744	-2.361056	-12.964239	-0.005915371132962	-0.007802858441603	-0.000196654068805
712	massimi	2.173872	2.265026	-4.693181	0.006138091190505	0.008205266925008	0.000223765326647
712	minimi	-2.279214	-2.251814	-12.511002	-0.005975360016501	-0.00798239038961	-0.000221921279262
713	massimi	2.172341	2.47422	-0.018969	0.006155921820302	0.008338277079139	0.000217653785516
713	minimi	-2.277705	-2.463363	-16.630673	-0.005996396818848	-0.007675703006202	-0.000215746260929

714	massimi	2.068543	2.26481	-5.005564	0.006001549640867	0.008214519917082	0.00022917824485
714	minimi	-2.171703	-2.251449	-12.226606	-0.006113428221938	-0.007991811824562	-0.000227018440556
715	massimi	2.306543	2.044471	-8.169585	0.005199251435872	0.00803216865178	0.000228867981264
715	minimi	-2.285969	-1.965672	-14.711201	-0.005523619128241	-0.00769485694887	-0.000225194215646
716	massimi	2.336131	2.071406	-6.690313	0.005366670569097	0.007782399904449	0.000216043428601
716	minimi	-2.317754	-1.990262	-16.346896	-0.005361312614229	-0.007874271374832	-0.000212715725518
717	massimi	2.336131	2.014022	-5.432228	0.005366670569097	0.00817789566239	0.000220834175924
717	minimi	-2.317754	-1.937903	-17.178818	-0.005361312614229	-0.007415772919149	-0.000216613230423
718	massimi	2.307323	2.015028	-4.950325	0.005296298082427	0.008197799041595	0.000238539011386
718	minimi	-2.286693	-1.93885	-17.610096	-0.00547762928683	-0.007554740918136	-0.000234300269792
719	massimi	2.420773	2.044471	-8.029846	0.005535248998313	0.00803216865178	0.000207802870487
719	minimi	-2.404626	-1.965672	-14.844981	-0.00520016429017	-0.00769485694887	-0.000203925267851
720	massimi	2.420321	2.071988	-6.258699	0.005487797161389	0.007915669313778	0.000230767345
720	minimi	-2.404088	-1.990812	-16.719719	-0.005293248511849	-0.007881805188044	-0.000226887910734
721	massimi	2.420624	2.01493	-4.314776	0.005487738619916	0.008202596080087	0.000232791728191
721	minimi	-2.40453	-1.938778	-18.23972	-0.005295640946566	-0.007559573619372	-0.000228497370788
722	massimi	2.306752	2.072184	-5.697689	0.005296208222614	0.007920474731166	0.00023651882789
722	minimi	-2.28626	-1.991034	-17.286654	-0.005479990403207	-0.007886646268175	-0.000232695009433
723	massimi	3.069286	4.157764	-0.09751	0.004761684460204	0.007798060279242	0.000295441343207
723	minimi	-2.994366	-3.932202	-25.87621	-0.005020369782767	-0.00730784803191	-0.000287219091417
724	massimi	3.068967	4.127217	-2.049216	0.004886157830752	0.008027896718811	0.00029611185132
724	minimi	-2.996858	-3.904673	-23.76548	-0.004888856408197	-0.00728170073556	-0.000286512720178
725	massimi	3.06976	4.127787	-1.999683	0.004815018045898	0.007956034943997	0.000302339999764
725	minimi	-2.994758	-3.90518	-23.784254	-0.004979878847417	-0.007302501147212	-0.000293239454633
726	massimi	3.068967	4.182757	1.793882	0.004886157830752	0.007568270320598	0.000274053963283
726	minimi	-2.996858	-3.954492	-27.928385	-0.004888856408197	-0.007334047860896	-0.000266541511262
727	massimi	3.115347	4.157764	-0.033635	0.005010996357652	0.007798060279241	0.00027478707185
727	minimi	-3.04615	-3.932202	-25.941845	-0.004757708156665	-0.00730784803191	-0.000265897740477
728	massimi	3.115044	4.183181	1.970576	0.004973341095267	0.007664201242694	0.000286727613553
728	minimi	-3.045749	-3.954867	-28.07551	-0.004813134123907	-0.007335735218787	-0.000278145962774
729	massimi	3.11617	4.127906	-1.924967	0.004973191729649	0.007957100456241	0.000294774734501
729	minimi	-3.047037	-3.905351	-23.860727	-0.004813736777848	-0.007303562519651	-0.000285430357345
730	massimi	3.069619	4.1833	1.835668	0.00481491087183	0.007665270818606	0.000294266574432
730	minimi	-2.994778	-3.955038	-27.938845	-0.004980523692907	-0.007336800654893	-0.000285928755677
731	massimi	1.938885	2.379042	-3.981118	0.005926864049291	0.007891364230471	0.00019938077402798
731	minimi	-2.072694	-2.378979	-13.040715	-0.006154677468635	-0.007463414336089	-0.000206032356496
732	massimi	1.951758	2.272932	-6.639236	0.006036865541121	0.007747848988578	0.000199911951184
732	minimi	-2.081369	-2.277773	-10.608504	-0.006026649488211	-0.007630922613923	-0.000207280084115
733	massimi	1.951758	2.477127	-0.422441	0.006036865541121	0.007932632323893	0.000186621615708
733	minimi	-2.081369	-2.472161	-16.284626	-0.006026649488211	-0.007199205712669	-0.000193989032025
734	massimi	1.939273	2.477761	0.26953	0.006006625399376	0.007982690787194	0.000206382212729
734	minimi	-2.073071	-2.472911	-16.944171	-0.006130481281967	-0.007333381787156	-0.000214109578863
735	massimi	1.962833	2.379042	-3.994155	0.006160687029846	0.007891364230471	0.00018739838605
735	minimi	-2.087999	-2.378979	-13.016317	-0.005912439397518	-0.007463414336089	-0.000195487617511
736	massimi	1.963123	2.274132	-4.794294	0.006132758842619	0.007850876246559	0.000209286835559
736	minimi	-2.088335	-2.27904	-12.406881	-0.005985264886433	-0.007641346124012	-0.000217406780223
737	massimi	1.962889	2.477413	0.218361	0.006137000460959	0.007984836976276	0.000203109079092
737	minimi	-2.088101	-2.472378	-16.881704	-0.005992616072242	-0.007335595974357	-0.00021122869088
738	massimi	1.939162	2.274527	-4.896659	0.005997949332675	0.007853022016024	0.000212554949418
738	minimi	-2.072959	-2.27925	-12.315814	-0.006124914782734	-0.007643559891595	-0.000220282648427
739	massimi	2.140008	2.03888	-8.204239	0.00519391107808	0.007702278647243	0.000201917115885
739	minimi	-2.159349	-2.000811	-15.026095	-0.005609200357709	-0.007369115365749	-0.000204482122695
740	massimi	2.152741	2.055555	-6.829118	0.005357783564528	0.007456436927096	0.000193545361366
740	minimi	-2.170538	-2.019339	-16.601115	-0.005437133493813	-0.007560465388396	-0.00019642387769
741	massimi	2.152741	2.020978	-5.539501	0.005357783564528	0.007848379291861	0.000197557380257
741	minimi	-2.170538	-1.981218	-17.46981	-0.005437133493813	-0.007082342629942	-0.000200004353729
742	massimi	2.14046	2.021948	-4.900999	0.005290415701499	0.007866966235375	0.000212911249967
742	minimi	-2.15976	-1.982194	-18.009802	-0.005560406277546	-0.00722262029399	-0.00021564773474
743	massimi	2.163058	2.03888	-8.133861	0.005530486766417	0.007702278647243	0.000189409142468
743	minimi	-2.179276	-2.000811	-15.184724	-0.005273913725487	-0.007369115365749	-0.000192171544151
744	massimi	2.163365	2.056241	-6.376348	0.005480770970009	0.007587368393611	0.000207635871063
744	minimi	-2.179562	-2.020012	-17.040917	-0.005367808188505	-0.007563680581097	-0.000210626671409
745	massimi	2.16316	2.021815	-4.880246	0.005481232364841	0.00786891845954	0.000209497843531
745	minimi	-2.179424	-1.982035	-18.118311	-0.005370690416244	-0.007224044362119	-0.000212288186408
746	massimi	2.140273	2.056329	-6.133164	0.005288275665371	0.007589334906563	0.00021105083029
746	minimi	-2.15964	-2.020075	-17.196346	-0.005560687074325	-0.007565118938014	-0.000213987772531
747	massimi	2.78191	3.790642	-0.791418	0.005638145307692	0.006525191036862	0.000614138272992
747	minimi	-2.662231	-3.751461	-27.34382	-0.00647675429295	-0.006535262631517	-0.000608307940255
748	massimi	2.955381	3.745066	-2.342491	0.005757954551426	0.006736259818881	0.000613285438517

748	minimi	-2.837752	-3.708044	-25.978184	-0.006316373043985	-0.006466137411811	-0.000606729782166
749	massimi	2.78278	3.745692	-2.355376	0.005691093689707	0.00666901608172	0.000631121964723
749	minimi	-2.663078	-3.708618	-25.750448	-0.006428323290702	-0.006501628458211	-0.000624667607575
750	massimi	2.955381	3.831584	0.825189	0.005757954551425	0.006314401510418	0.000594298431276
750	minimi	-2.837752	-3.790299	-29.139294	-0.006316373043985	-0.006604666982464	-0.000588105234968
751	massimi	3.125427	3.790642	-0.716312	0.005880905727596	0.006525191036862	0.000593270723331
751	minimi	-3.010012	-3.751461	-27.783229	-0.006159126833736	-0.006535262631517	-0.000586352203409
752	massimi	3.125383	3.831976	0.875909	0.005843488460736	0.006401160156708	0.000616555167753
752	minimi	-3.009933	-3.790649	-29.338831	-0.006224910522018	-0.006589580072912	-0.000609835541629
753	massimi	3.125355	3.745679	-2.25497	0.005843532932934	0.006670387845781	0.000623503037381
753	minimi	-3.009933	-3.708689	-26.214511	-0.006224939543691	-0.006502143569607	-0.000616650924267
754	massimi	2.782732	3.831977	0.82023	0.005691167552107	0.006402539402819	0.000624191272349
754	minimi	-2.663058	-3.790735	-28.919495	-0.006428381702577	-0.006590102666358	-0.00061786940219
755	massimi	1.826099	2.373458	-3.705755	0.005930663446157	0.007898187495266	0.000202920293927
755	minimi	-2.008595	-2.390117	-13.110177	-0.006196570992704	-0.007648639629906	-0.000223003478439
756	massimi	1.802727	2.241659	-6.491213	0.006037544066413	0.007761728456857	0.000207947520285
756	minimi	-1.973055	-2.272272	-10.461168	-0.006068282642082	-0.007818338120817	-0.000228873340023
757	massimi	1.802727	2.500972	-0.052048	0.006037544066413	0.007932326676153	0.000194359969962
757	minimi	-1.973055	-2.503606	-16.585054	-0.006068282642082	-0.007379855755504	-0.000215474628158
758	massimi	1.825532	2.501065	0.213204	0.006008344439758	0.007990540749943	0.000213615390252
758	minimi	-2.007984	-2.503897	-16.795117	-0.006172363466704	-0.007523014966444	-0.000236007677495
759	massimi	1.791674	2.373458	-3.117361	0.006146002203942	0.007898187495266	0.000199647000648
759	minimi	-1.949512	-2.390117	-13.732757	-0.005941578148873	-0.007648639629906	-0.000221619431819
760	massimi	1.791848	2.24272	-4.494928	0.006130936530345	0.00786885853681	0.000219034156742
760	minimi	-1.949806	-2.273392	-12.434603	-0.006026871445343	-0.007835818840926	-0.000241854199808
761	massimi	1.792036	2.501498	0.958273	0.006124032280698	0.007980585702606	0.00021271948922
761	minimi	-1.949965	-2.504087	-17.574181	-0.006021780459198	-0.007512855322934	-0.000235627250023
762	massimi	1.826806	2.243715	-4.887288	0.006001140908462	0.007858875636675	0.000219925241394
762	minimi	-2.009228	-2.274143	-12.008247	-0.00616697319891	-0.007825631344619	-0.0002422298109
763	massimi	1.918566	2.044665	-8.226849	0.005119078405609	0.007725920873316	0.000203373406312
763	minimi	-1.961603	-2.050052	-14.453508	-0.005628383860023	-0.007549101760305	-0.000206944615907
764	massimi	1.897823	2.079024	-6.280555	0.00527512559016	0.007481706402441	0.000199155066085
764	minimi	-1.938672	-2.086925	-16.55876	-0.005456199745192	-0.007731070227144	-0.000202920924069
765	massimi	1.897823	2.005487	-5.447782	0.00527512559016	0.007870078439342	0.000205261476553
765	minimi	-1.938672	-2.008336	-17.168139	-0.005456199745192	-0.007269368264842	-0.000209088394767
766	massimi	1.91839	2.006578	-5.051802	0.005210956969557	0.007893945874488	0.000218976517527
766	minimi	-1.961422	-2.00947	-17.410121	-0.005579320255483	-0.007413937436118	-0.000223011703666
767	massimi	1.880843	2.044665	-7.599944	0.00543230709034	0.007725920873316	0.000200286672787
767	minimi	-1.919427	-2.050052	-15.281799	-0.005285187324951	-0.007549101760305	-0.000204310974959
768	massimi	1.881247	2.079663	-5.895213	0.005389495713626	0.007616912673609	0.000215004570296
768	minimi	-1.919856	-2.087584	-16.989186	-0.005383704601824	-0.007743301760743	-0.000219135016953
769	massimi	1.881141	2.00642	-4.613078	0.005389110234427	0.007886844455577	0.000218132062152
769	minimi	-1.919741	-2.009254	-18.049099	-0.005384603926657	-0.007405630780999	-0.000222290872108
770	massimi	1.918946	2.079628	-5.47407	0.005210575911531	0.007609789859516	0.000215779933928
770	minimi	-1.961969	-2.08749	-17.210074	-0.005580224001489	-0.007734973710443	-0.000219786756768
771	massimi	2.458805	3.235979	-0.503941	0.007486835031121	0.005054830069636	0.000800329353159
771	minimi	-2.210312	-3.365272	-25.725839	-0.008560973436784	-0.006107109590123	-0.000787678602715
772	massimi	2.716927	3.200157	-1.989229	0.007587370556259	0.005241979037312	0.000791703838513
772	minimi	-2.472871	-3.333966	-24.848919	-0.008400151121887	-0.006032889205604	-0.0007785224717
773	massimi	2.459855	3.200755	-1.921447	0.007535187680873	0.005182258156566	0.000820418909184
773	minimi	-2.211388	-3.334482	-24.620642	-0.008516032107483	-0.006070908997335	-0.000806811000291
774	massimi	2.716927	3.26935	1.083139	0.007587370556259	0.004868071253278	0.000786440065062
774	minimi	-2.472871	-3.393944	-27.234797	-0.008400151121887	-0.006181707135484	-0.000772062387402
775	massimi	2.972162	3.235979	-0.0795	0.007688101330461	0.005054830069636	0.000777665661773
775	minimi	-2.732885	-3.365272	-26.680525	-0.00823951402221	-0.006107109590123	-0.000762757143214
776	massimi	2.971671	3.269751	1.569672	0.007662986492417	0.004944860925545	0.000810209289043
776	minimi	-2.732395	-3.394287	-27.955793	-0.008311936249025	-0.006165406436316	-0.00079533892161
777	massimi	2.972026	3.200596	-1.58337	0.0076641075929	0.005181281473341	0.000812139167923
777	minimi	-2.732657	-3.334499	-25.488024	-0.008311443079801	-0.006068685452397	-0.000797705995924
778	massimi	2.459822	3.269622	1.024751	0.007536326721766	0.004943864236328	0.000818497533978
778	minimi	-2.211261	-3.394334	-26.881566	-0.008515556878669	-0.006163162885386	-0.000804452429652
779	massimi	2.066353	1.940941	1.021426	0.007598369499419	0.008385627891943	0.000163781118439
779	minimi	-2.365777	-1.998813	-16.177684	-0.007998440833617	-0.008260530288508	-0.000155712025299
780	massimi	2.077015	1.966577	-3.137845	0.007726077110162	0.008284655098215	0.000164043879278
780	minimi	-2.380472	-2.020077	-12.168517	-0.007915545036459	-0.00843307483964	-0.000157332009208
781	massimi	2.077015	1.91902	3.260028	0.007726077110162	0.008378259018523	0.000163973516207
781	minimi	-2.380472	-1.981018	-18.408342	-0.007915545036459	-0.007981265502448	-0.000157917666074
782	massimi	2.066069	1.919169	3.657506	0.007699191405667	0.008454599797344	0.000176260023861
782	minimi	-2.365611	-1.981386	-18.666525	-0.008009129375428	-0.00813517849099	-0.000169087699477

783	massimi	2.08481	1.940941	-1.201838	0.007855973511858	0.008385627891943	0.000164555722584
783	minimi	-2.391723	-1.998813	-14.165141	-0.007834877109923	-0.008260530288508	-0.000159852498178
784	massimi	2.08439	1.966216	-4.55009	0.007845867566492	0.008387738650957	0.000176503665637
784	minimi	-2.391369	-2.019978	-10.825684	-0.007915744315332	-0.008457386506177	-0.000169944976212
785	massimi	2.085657	1.920638	3.533331	0.007826257765277	0.008439887869069	0.000176459210828
785	minimi	-2.392535	-1.982422	-18.751888	-0.007897043497723	-0.008119205462888	-0.00017020525056
786	massimi	2.06731	1.968175	0.149281	0.007679266668973	0.008373206560196	0.000176279141902
786	minimi	-2.366749	-2.021504	-15.315518	-0.007990113622341	-0.008441593315589	-0.00016880208836
787	massimi	2.380865	1.746669	-4.488636	0.006256247251201	0.008117623082036	0.000262942766294
787	minimi	-2.398899	-1.802256	-14.92342	-0.006871410727048	-0.008132430769303	-0.000265893719125
788	massimi	2.334211	1.630376	-1.767027	0.006405324563533	0.007841543325679	0.000273222301669
788	minimi	-2.350478	-1.687868	-17.777574	-0.006742013966311	-0.008216835384887	-0.000275947315136
789	massimi	2.334211	1.859346	-6.10303	0.006405324563533	0.008288617087906	0.000260564721623
789	minimi	-2.350478	-1.912792	-13.460279	-0.006742013966311	-0.007942748470438	-0.000263919850376
790	massimi	2.380572	1.859646	-4.824268	0.006350104265464	0.008308944574135	0.000282966545719
790	minimi	-2.398646	-1.913136	-14.506616	-0.006847143044942	-0.008067703632866	-0.000286357717083
791	massimi	2.286002	1.746669	-5.645529	0.006555863985116	0.008117623082036	0.00027112559892
791	minimi	-2.30047	-1.802256	-14.140983	-0.006614148817288	-0.008132430769303	-0.000274256978897
792	massimi	2.286386	1.631783	-2.172094	0.006520931675837	0.007990008408759	0.000291079601734
792	minimi	-2.300918	-1.689299	-17.512534	-0.006700556396187	-0.008263205093199	-0.000294227304613
793	massimi	2.286842	1.859309	-5.495671	0.00652101229395	0.008299766548664	0.000285200510811
793	minimi	-2.301275	-1.912776	-14.207567	-0.006700529418599	-0.008056284590398	-0.000288640910729
794	massimi	2.381123	1.631484	-0.876039	0.0063502836359	0.007980865138392	0.00028884713078
794	minimi	-2.399098	-1.688977	-18.436235	-0.006847214819678	-0.008251820805836	-0.000291945605105
795	massimi	3.280381	3.153509	0.127067	0.005399935485558	0.00654948737446	0.000214739028918
795	minimi	-3.189702	-3.505252	-17.497277	-0.00698813418695	-0.006887799649447	-0.000244765679505
796	massimi	3.247644	3.135571	-1.318831	0.005437839466994	0.00669521349057	0.00022566867414
796	minimi	-3.14701	-3.477183	-16.623737	-0.006854192417265	-0.006861669183695	-0.000256856832752
797	massimi	3.280523	3.136118	-1.713877	0.005421918711514	0.006652539214251	0.000227027048502
797	minimi	-3.189932	-3.477767	-15.747061	-0.006949928622291	-0.006883367186971	-0.000258338824281
798	massimi	3.247644	3.167363	2.549075	0.005437839466994	0.006403821855548	0.000211662830724
798	minimi	-3.14701	-3.528746	-20.270933	-0.006854192417265	-0.006913986535907	-0.000239597006381
799	massimi	3.210725	3.153509	1.101225	0.005475878552282	0.00654948737446	0.00022655621689
799	minimi	-3.100276	-3.505252	-19.395441	-0.00672036826644	-0.006887799649447	-0.000251751305372
800	massimi	3.211043	3.167833	3.048292	0.0054701508338	0.006467535674583	0.00022480357569
800	minimi	-3.100733	-3.529201	-21.211279	-0.006779929312951	-0.006916595078928	-0.000254585143608
801	massimi	3.211459	3.135951	-0.798169	0.005471348908328	0.006652609877484	0.000229900429532
801	minimi	-3.100896	-3.477673	-17.585137	-0.006780608393005	-0.006881265066626	-0.000260871916761
802	massimi	3.280924	3.167653	2.215454	0.005423145090072	0.006467585442873	0.000221887134255
802	minimi	-3.190079	-3.529093	-19.456073	-0.006950636006374	-0.006914472063641	-0.000252009508844
803	massimi	3.422528	3.679694	-5.427883	0.008859629497983	0.00463035457435	0.000348738154787
803	minimi	-3.834493	-3.613862	-18.938933	-0.009193408247597	-0.003326376552129	-0.000328438338777
804	massimi	3.453738	3.591771	-6.389186	0.008954703395441	0.004818423184993	0.000361773872665
804	minimi	-3.872136	-3.532125	-17.582975	-0.009048791473201	-0.003274761959013	-0.000343104855489
805	massimi	3.422569	3.591659	-6.411736	0.008906112198455	0.004755181481607	0.000364683480739
805	minimi	-3.834583	-3.532139	-17.502298	-0.0091515390213	-0.003296987551655	-0.000344887877513
806	massimi	3.453738	3.762856	-4.239195	0.008954703395441	0.00444463092681	0.000332847839854
806	minimi	-3.872136	-3.690928	-20.583659	-0.009048791473201	-0.003380352206064	-0.00031478784058
807	massimi	3.480954	3.679694	-4.060348	0.009078718348417	0.00463035457435	0.000346001274623
807	minimi	-3.905201	-3.613862	-20.36785	-0.008933114592796	-0.003326376552129	-0.000329572074182
808	massimi	3.480828	3.762294	-3.504449	0.009049257188604	0.004519362239033	0.000353109843175
808	minimi	-3.905091	-3.690524	-21.320045	-0.008990309280793	-0.003365543039737	-0.000334951642927
809	massimi	3.481847	3.593317	-4.57821	0.009046465306715	0.004757734637278	0.000363671147934
809	minimi	-3.906158	-3.533496	-19.397097	-0.008989517791555	-0.003299396369694	-0.000345290338462
810	massimi	3.423561	3.763951	-4.427772	0.008906321952792	0.00452045490603	0.000354098181415
810	minimi	-3.835622	-3.69188	-20.335448	-0.009153749168288	-0.003366491369102	-0.000334525187413
811	massimi	3.619009	3.377852	-1.208038	0.007146824077539	0.004346418739588	0.000454072169754
811	minimi	-3.535548	-3.402448	-21.464332	-0.007683712939322	-0.005258919135804	-0.000459151005879
812	massimi	3.582631	3.507403	0.920676	0.007210585067223	0.004345604690471	0.00044695411035
812	minimi	-3.497544	-3.530416	-23.993109	-0.007524551627642	-0.005035175214908	-0.000451753145972
813	massimi	3.619154	3.50756	0.204325	0.007182414567638	0.004354599005981	0.000468013833646
813	minimi	-3.535686	-3.53055	-23.147731	-0.007639128319953	-0.005127268793692	-0.000473040780204
814	massimi	3.582631	3.243853	-1.906896	0.007210585067223	0.004347194630753	0.000470664916854
814	minimi	-3.497544	-3.269999	-20.570237	-0.007524551627642	-0.005482613633858	-0.000475236408675
815	massimi	3.543915	3.377852	0.403089	0.007274617162163	0.004346418739588	0.000463729088619
815	minimi	-3.45732	-3.402448	-23.280286	-0.007365657545276	-0.005258919135804	-0.000468020779938
816	massimi	3.544295	3.244709	-0.713563	0.007263536645042	0.004355610678254	0.000480212459456
816	minimi	-3.457702	-3.270824	-21.84006	-0.007437167453932	-0.00541136340939	-0.000484868515369
817	massimi	3.544677	3.507456	1.662788	0.00726214959774	0.004351239858721	0.000471543161987

817	minimi	-3.458066	-3.530507	-24.810657	-0.007434380567787	-0.00512342799997	-0.000476282390083
818	massimi	3.619614	3.244595	-2.616667	0.007180995317549	0.004352247465526	0.000476678533406
818	minimi	-3.536128	-3.270771	-19.732493	-0.00763630923102	-0.005407518550201	-0.00048162230778
819	massimi	1.927478	3.559961	1.92235	0.009467970494233	0.008444569025136	0.000259452861243
819	minimi	-1.954267	-3.573181	-25.888243	-0.010015976911112	-0.009100443522549	-0.000294855668544
820	massimi	1.897295	3.626944	-0.533758	0.009682518798396	0.008533763245259	0.000258637774165
820	minimi	-1.912233	-3.628294	-23.747759	-0.009994244950732	-0.008953351505576	-0.000294170831087
821	massimi	1.927054	3.626745	2.489486	0.009562425831086	0.008517206271377	0.000269243596062
821	minimi	-1.953819	-3.628133	-26.641279	-0.010025180098892	-0.009024353643141	-0.000305895462976
822	massimi	1.897295	3.488657	-1.690908	0.009682518798396	0.008355463708987	0.000269900384936
822	minimi	-1.912233	-3.513731	-22.162726	-0.009994244950732	-0.009247616346673	-0.000305311135435
823	massimi	1.865364	3.559961	-4.187388	0.009897178717462	0.008444569025136	0.000269094574319
823	minimi	-1.86843	-3.573181	-19.98187	-0.00997262075697	-0.009100443522549	-0.000304635574439
824	massimi	1.865108	3.488826	-4.77255	0.009834912966517	0.008403980402078	0.000276885800453
824	minimi	-1.868212	-3.513875	-19.155124	-0.009997621543232	-0.009211173464932	-0.000313543474188
825	massimi	1.866288	3.627731	-3.070739	0.009833935543377	0.008512427559238	0.000272763577563
825	minimi	-1.869383	-3.629108	-21.284059	-0.009995637963162	-0.009019096721482	-0.000309465956943
826	massimi	1.928242	3.489803	1.410244	0.009561386515423	0.008399236180157	0.00027335672739
826	minimi	-1.954997	-3.514842	-25.134913	-0.010023134626298	-0.009205951033491	-0.000309963888659
827	massimi	2.262027	3.310486	2.796922	0.007185027972881	0.005222747624249	0.000235961568958
827	minimi	-2.142254	-3.431267	-20.854449	-0.008058825708514	-0.006427392427529	-0.000256174102589
828	massimi	2.246148	3.355707	0.383089	0.00736647054092	0.005306807520863	0.000230755979801
828	minimi	-2.119723	-3.46984	-19.061005	-0.008063739908583	-0.006334912216531	-0.00025094240625
829	massimi	2.262042	3.35606	2.911264	0.00726266211978	0.005286143370539	0.000243827779899
829	minimi	-2.142278	-3.470182	-21.340641	-0.008074064829519	-0.006381177653373	-0.000264528008235
830	massimi	2.246148	3.261008	0.142667	0.00736647054092	0.005138934165132	0.000253901112664
830	minimi	-2.119723	-3.388269	-18.034692	-0.008063739908583	-0.006520104204586	-0.000272970190378
831	massimi	2.227736	3.310486	-2.336378	0.007547868998695	0.005222747624249	0.00024871899234
831	minimi	-2.094836	-3.431267	-16.176036	-0.008068601390542	-0.006427392427529	-0.000267761962872
832	massimi	2.227846	3.261659	-2.445814	0.007493034507444	0.005179529113282	0.000256952289835
832	minimi	-2.09499	-3.388872	-15.653147	-0.008080265146352	-0.006498735466947	-0.000276816602404
833	massimi	2.228315	3.35599	-1.952828	0.007494040107227	0.00528289566855	0.000248500513059
833	minimi	-2.095372	-3.470202	-16.93063	-0.008079422737524	-0.006376860291853	-0.000268773240771
834	massimi	2.26252	3.261481	2.740473	0.007263654224389	0.005176330492266	0.000252297683873
834	minimi	-2.142669	-3.388786	-20.385352	-0.008073208925519	-0.0064944671864	-0.000272589497066
835	massimi	2.741806	3.801085	-4.050251	0.004205812063653	0.006694502846883	0.000203912322176
835	minimi	-2.500672	-3.890343	-17.806481	-0.005031213501279	-0.007391905907438	-0.000231868484381
836	massimi	2.79532	3.793523	-2.027517	0.004325087520458	0.006732337769726	0.000205112938101
836	minimi	-2.54505	-3.873758	-20.255649	-0.004934998712333	-0.007214242515078	-0.000232324337697
837	massimi	2.742047	3.794021	-2.098376	0.004256454365613	0.006730524820317	0.000210855661731
837	minimi	-2.500888	-3.874201	-19.9604	-0.0050047068483	-0.007292695431283	-0.000239121884796
838	massimi	2.79532	3.803567	-6.11844	0.004325087520458	0.006656597112037	0.000201633634702
838	minimi	-2.54505	-3.901725	-15.709752	-0.004934998712333	-0.007569489878296	-0.000228019304308
839	massimi	2.84532	3.801085	-3.738449	0.004444573137225	0.006694502846883	0.000202568109993
839	minimi	-2.586263	-3.890343	-18.516179	-0.004838986553945	-0.007391905907438	-0.00022820901699
840	massimi	2.845285	3.804034	-5.90494	0.004408026505946	0.006682432764001	0.000209104291065
840	minimi	-2.58625	-3.902089	-16.096859	-0.00488263140795	-0.00751825095565	-0.000236222416067
841	massimi	2.84583	3.79407	-1.56017	0.004407787700898	0.006728145747757	0.000210367904139
841	minimi	-2.586731	-3.87443	-20.895797	-0.004881322738277	-0.007289380712687	-0.000237787851321
842	massimi	2.742584	3.804093	-5.963358	0.004256167358952	0.006680057711791	0.000209601857777
842	minimi	-2.501361	-3.902328	-15.641249	-0.005003349977015	-0.007514940257405	-0.000237566258662
843	massimi	3.090769	3.284872	0.610391	0.001026813782309	0.005039469526446	0.000454532582743
843	minimi	-2.746293	-3.965163	-7.638055	-0.004296650355098	-0.006040950842246	-0.000414167856767
844	massimi	2.937161	3.237681	-1.177923	0.001038371681214	0.005114340097058	0.000466020358151
844	minimi	-2.606464	-3.931507	-7.219858	-0.004237231403849	-0.006044818635929	-0.000427272685209
845	massimi	3.090424	3.238322	-1.216323	0.001031381552723	0.005093137347047	0.000477860538439
845	minimi	-2.746186	-3.932083	-6.130921	-0.00428124074264	-0.006053607760554	-0.000436278438583
846	massimi	2.937161	3.328543	2.561572	0.001038371681214	0.004964551125772	0.000471439257912
846	minimi	-2.606464	-3.994349	-10.306003	-0.004237231403849	-0.006037022855133	-0.000426398191963
847	massimi	2.779529	3.284872	0.762638	0.00105096958972	0.005039469526446	0.000481510175811
847	minimi	-2.463073	-3.965163	-9.877186	-0.004178812972017	-0.006040950842246	-0.000438086162898
848	massimi	2.779999	3.328958	2.63161	0.001046119090051	0.004998033011507	0.000489784325372
848	minimi	-2.463706	-3.994774	-11.409847	-0.004205822426053	-0.006048659278927	-0.000444783618596
849	massimi	2.780667	3.238155	-0.958085	0.001048732938803	0.005097150504626	0.000487508440109
849	minimi	-2.463884	-3.932153	-8.472345	-0.004206899933065	-0.006052713645639	-0.000444808104672
850	massimi	3.091081	3.328763	2.502237	0.001034019163845	0.005002043496897	0.000479914419134
850	minimi	-2.746353	-3.994816	-9.197288	-0.004282342012021	-0.006047762491823	-0.000436031947939
851	massimi	3.230765	1.51316	-3.936427	0.010704211939341	0.00373799219335	0.000304425697242
851	minimi	-2.8602	-1.686	-11.762866	-0.011729435767598	-0.005043478032495	-0.000304517940138

852	massimi	3.224474	1.51867	-4.690223	0.010781200694699	0.003797664437653	0.000310397485925
852	minimi	-2.854192	-1.69193	-11.719501	-0.011653673491772	-0.004950385802076	-0.000309576457123
853	massimi	3.231013	1.518888	-3.668881	0.010748760700458	0.003782502674919	0.000318103932313
853	minimi	-2.860462	-1.692038	-12.438	-0.011720630163782	-0.004993771113302	-0.000317347662647
854	massimi	3.224474	1.505984	-7.041337	0.0107812006947	0.003681639728427	0.000307486678003
854	minimi	-2.854192	-1.678161	-8.51671	-0.011653673491772	-0.005139873925966	-0.000305066705781
855	massimi	3.21437	1.51316	-4.324384	0.01085806374543	0.00373799219335	0.000313605404906
855	minimi	-2.844889	-1.686	-11.944095	-0.011577774740571	-0.005043478032495	-0.000310272160986
856	massimi	3.214658	1.506247	-4.100149	0.010846444437126	0.003708570353095	0.000320395824743
856	minimi	-2.845188	-1.678315	-11.724742	-0.01162433438456	-0.005113818307368	-0.000317803017091
857	massimi	3.214986	1.518821	-3.669229	0.01084838247134	0.003781333908457	0.000321460315923
857	minimi	-2.845392	-1.692237	-13.00583	-0.011624269713027	-0.004991263913106	-0.000319451956694
858	massimi	3.231335	1.506159	-3.999061	0.010750695699024	0.003706984063105	0.000317040831613
858	minimi	-2.860659	-1.678494	-11.257651	-0.011720562456602	-0.005110893583645	-0.000315700113524
859	massimi	2.813361	0.326447	1.009505	0.005625079032603	-0.000281624781924	0.000461063356055
859	minimi	-2.385702	-0.447637	-7.147599	-0.006621620177161	-0.002682519757269	-0.000424694839542
860	massimi	2.81093	0.462785	-1.178933	0.005673012261973	-0.000272497657264	0.00045853146077
860	minimi	-2.395787	-0.596694	-6.233428	-0.006615359617336	-0.002637428979756	-0.000420803254958
861	massimi	2.813699	0.462651	0.848238	0.005649899185466	-0.000277670947472	0.000475347599575
861	minimi	-2.386063	-0.596393	-7.945657	-0.006630451266482	-0.00265755864702	-0.00043668822128
862	massimi	2.81093	0.19986	-0.931998	0.005673012261973	-0.000290740776449	0.000462550632526
862	minimi	-2.395787	-0.308162	-4.546603	-0.006615359617336	-0.002727585072313	-0.000423701294846
863	massimi	2.806699	0.326447	-1.858405	0.00572088388208	-0.000281624781924	0.000460080114299
863	minimi	-2.404649	-0.447637	-4.894462	-0.006609025814895	-0.002682519757269	-0.000419871087319
864	massimi	2.807058	0.200469	-1.676075	0.00571072805346	-0.000289259222915	0.000476457191932
864	minimi	-2.404962	-0.308671	-4.104693	-0.006622454133283	-0.00271479637277	-0.000435984826836
865	massimi	2.8071	0.462284	-2.024596	0.005714407818518	-0.000274897381522	0.000474988036601
865	minimi	-2.404916	-0.596325	-5.686506	-0.006621586695204	-0.002658886586823	-0.000434925469465
866	massimi	2.813746	0.199897	1.167731	0.005653577761968	-0.000286475311733	0.000476816612805
866	minimi	-2.386023	-0.308398	-6.334817	-0.006629582639847	-0.002716134657805	-0.000437748037398
867	massimi	4.953435	1.003068	-5.745444	0.01082496285357	0.006677889191437	0.000210943107998
867	minimi	-4.919738	-0.962301	-10.187078	-0.01084369128692	-0.006552133578485	-0.000204183464706
868	massimi	5.015679	1.00415	-5.414814	0.010886599061228	0.006754985736808	0.000187863941395
868	minimi	-4.984269	-0.965719	-10.433288	-0.010753549418163	-0.006477453644927	-0.000180770437369
869	massimi	4.954337	1.004444	-4.525076	0.010864874258278	0.006736072054979	0.000202758110508
869	minimi	-4.920627	-0.965991	-11.348536	-0.010827881871246	-0.006513643737606	-0.000195607101918
870	massimi	5.015679	1.001406	-5.176406	0.010886599061228	0.00660071324699	0.000189306893148
870	minimi	-4.984269	-0.958357	-10.753737	-0.010753549418163	-0.006626735665431	-0.000182590534858
871	massimi	5.070973	1.003068	-2.973527	0.010948104199006	0.006677889191437	0.000166422664387
871	minimi	-5.041894	-0.962301	-12.872195	-0.010663278122035	-0.006552133578485	-0.000159372445362
872	massimi	5.071565	1.001669	-2.145741	0.01094306052797	0.006638120160436	0.000187003971838
872	minimi	-5.042461	-0.95861	-13.723121	-0.010713332024561	-0.006608427959442	-0.000179884606457
873	massimi	5.071415	1.004113	-2.975612	0.010943402272246	0.006739176797132	0.00018647738156
873	minimi	-5.042341	-0.965682	-12.811354	-0.010713866686662	-0.006516952587132	-0.000179220161251
874	massimi	4.954187	1.001416	-5.484341	0.010865216070562	0.006641223967307	0.000203286662942
874	minimi	-4.920506	-0.958379	-10.471166	-0.010828416601356	-0.006611735873685	-0.00019627350928
875	massimi	4.430541	1.216184	-7.809689	0.010600324566828	0.005236889722488	0.000185001519782
875	minimi	-4.448554	-1.18575	-15.017623	-0.010740679162477	-0.004848455763053	-0.000180304627338
876	massimi	4.484153	1.218467	-10.154709	0.010713230194926	0.005353354854454	0.000164354522221
876	minimi	-4.503719	-1.189594	-12.518879	-0.01063039646396	-0.004741735477322	-0.000159607359103
877	massimi	4.431366	1.218696	-7.421658	0.010658849774633	0.005318063152535	0.000177641003036
877	minimi	-4.449375	-1.189822	-15.252827	-0.010717293480285	-0.004787231064635	-0.00017279647031
878	massimi	4.484153	1.212771	-9.334883	0.010713230194926	0.005120360502518	0.000166339680962
878	minimi	-4.503719	-1.180818	-13.592113	-0.01063039646396	-0.004955116756028	-0.000161874069651
879	massimi	4.531582	1.216184	-7.961634	0.010826003844573	0.005236889722488	0.000146039816593
879	minimi	-4.552676	-1.18575	-14.811638	-0.01051998280958	-0.004848455763053	-0.000141523934608
880	massimi	4.532141	1.212993	-7.064982	0.010802140767934	0.005170127634228	0.000164110252103
880	minimi	-4.553222	-1.181046	-15.808518	-0.010577166825122	-0.004922713194792	-0.000159434795895
881	massimi	4.531959	1.218547	-7.925003	0.010802128809358	0.005320525832749	0.000163383861053
881	minimi	-4.553062	-1.189659	-14.695539	-0.010577750751158	-0.004789820817533	-0.000158605491568
882	massimi	4.431184	1.212889	-7.864768	0.010658838342831	0.005172590757315	0.000178366642689
882	minimi	-4.449214	-1.180928	-15.062676	-0.010717877933095	-0.004925303390562	-0.000173625023242
883	massimi	3.51012	1.209783	-8.090881	0.010514330900226	0.004378844322757	0.000161851731394
883	minimi	-3.542697	-1.19727	-15.194388	-0.010734894524354	-0.003799072126463	-0.000156014998155
884	massimi	3.519888	1.212389	-9.990398	0.010629259849844	0.004490979090022	0.000147484324649
884	minimi	-3.554388	-1.201783	-13.103271	-0.010621650176805	-0.003683037222199	-0.000141749291643
885	massimi	3.510704	1.212582	-7.566189	0.01057365318821	0.004455515902746	0.000157943669481
885	minimi	-3.543286	-1.201982	-15.503407	-0.01071046078113	-0.003729929624871	-0.000151997715816
886	massimi	3.519888	1.206029	-10.264337	0.010629259849844	0.004266658444812	0.000149773042785

886	minimi	-3.554388	-1.191626	-13.207566	-0.010621650176805	-0.003915063077381	-0.000144153765736
887	massimi	3.536375	1.209783	-8.141615	0.010744058699244	0.004378844322757	0.000135878716659
887	minimi	-3.572749	-1.19727	-15.138689	-0.01050827582298	-0.003799072126463	-0.000130361139844
888	massimi	3.536829	1.206227	-7.801746	0.010719514055442	0.004313087480345	0.00014927093618
888	minimi	-3.573198	-1.19184	-15.640458	-0.010566573187319	-0.003877249663514	-0.000143483952402
889	massimi	3.53668	1.212501	-7.990359	0.010719115110884	0.004458712106217	0.00014843289076
889	minimi	-3.573058	-1.201876	-15.074281	-0.010567063653488	-0.003733137502108	-0.000142603595674
890	massimi	3.510517	1.206169	-8.18423	0.010573253453208	0.004316284344854	0.000158779755759
890	minimi	-3.543109	-1.191758	-15.26293	-0.010710950456855	-0.003880458201788	-0.000152876113401
891	massimi	3.313505	1.211799	-8.104498	0.010518268482019	0.004123252501297	0.000166808992132
891	minimi	-3.378856	-1.21087	-15.229398	-0.010749948419568	-0.003532196236592	-0.000156783290516
892	massimi	3.311883	1.212483	-10.023622	0.010633499809583	0.004235021944347	0.000157939641849
892	minimi	-3.380528	-1.214802	-13.118445	-0.010636468407599	-0.003415257970103	-0.000148227165407
893	massimi	3.313959	1.21262	-7.702499	0.010577808079091	0.004200416583943	0.000166736620027
893	minimi	-3.379327	-1.214954	-15.411993	-0.010725543990554	-0.003463194511759	-0.000156587073245
894	massimi	3.311883	1.210016	-10.268175	0.010633499809583	0.00401143653296	0.000160203281707
894	minimi	-3.380528	-1.205842	-13.259488	-0.010636468407599	-0.003649095274432	-0.000150499393302
895	massimi	3.305901	1.211799	-8.138018	0.010748601480585	0.004123252501297	0.000151752071471
895	minimi	-3.377745	-1.21087	-15.197815	-0.01052285870242	-0.003532196236592	-0.000142361408239
896	massimi	3.306377	1.210158	-7.912411	0.010724053270699	0.004058454898371	0.000162052581631
896	minimi	-3.378221	-1.206017	-15.588927	-0.010581357398832	-0.003611664609516	-0.000152138294234
897	massimi	3.306332	1.212662	-7.896595	0.010723453933308	0.004201342007425	0.000161223501383
897	minimi	-3.378176	-1.214947	-15.21983	-0.010581664782712	-0.003464115381206	-0.000151306074873
898	massimi	3.313918	1.210203	-8.066434	0.010577208079959	0.004059381156623	0.000167563307753
898	minimi	-3.379287	-1.206013	-15.43297	-0.010725850712692	-0.003612586313732	-0.000157416900085
899	massimi	3.129139	1.184149	-8.158982	0.010512843968615	0.004106593866773	0.000158242871398
899	minimi	-3.245624	-1.201719	-15.050964	-0.010775954299725	-0.003657451973571	-0.000144617654038
900	massimi	3.120804	1.183835	-9.993108	0.010626281148821	0.004217868789728	0.000154509266261
900	minimi	-3.241742	-1.205762	-13.081934	-0.010661851196582	-0.003541189165967	-0.000141524722004
901	massimi	3.129419	1.183907	-7.848302	0.010571749553692	0.004185929544768	0.000161330222591
901	minimi	-3.245938	-1.205868	-15.188606	-0.010751504877238	-0.00359161888677	-0.000147653939964
902	massimi	3.120804	1.18334	-10.199496	0.010626281148821	0.003995271521163	0.000156839062442
902	minimi	-3.241742	-1.196529	-13.168559	-0.010661851196582	-0.003773672903213	-0.000143691977024
903	massimi	3.108562	1.184149	-8.002672	0.010739588339146	0.004106593866773	0.000153453861462
903	minimi	-3.233785	-1.201719	-15.23048	-0.010547617664443	-0.003657451973571	-0.000140947449147
904	massimi	3.108982	1.183418	-7.847614	0.010715716399166	0.004044597066107	0.000160428922788
904	minimi	-3.234216	-1.196664	-15.504951	-0.01060652676319	-0.00373923136763	-0.000147102175305
905	massimi	3.109006	1.184077	-7.557071	0.010715051569199	0.004181835961897	0.000159575359143
905	minimi	-3.234228	-1.205951	-15.503	-0.010606550948012	-0.00358747073698	-0.000146308023971
906	massimi	3.129639	1.183579	-7.808193	0.010571084432253	0.004040500682763	0.000162180800562
906	minimi	-3.246145	-1.196738	-15.521208	-0.010751528770588	-0.003735080417368	-0.000148445105623
907	massimi	31.777013	41.260986	0.00	0.00	0.00	0.002259142827669
907	minimi	-31.777013	-41.260986	0.00	0.00	0.00	-0.002259142827669
908	massimi	54.636173	68.713117	0.00	0.00	0.00	0.003805180619481
908	minimi	-54.636173	-68.713117	0.00	0.00	0.00	-0.003805180619481
909	massimi	71.296971	83.719085	0.00	0.00	0.00	0.004859074118152
909	minimi	-71.296971	-83.719085	0.00	0.00	0.00	-0.004859074118152
910	massimi	104.008535	128.914168	0.00	0.00	0.00	0.006961028487713
910	minimi	-104.008535	-128.914168	0.00	0.00	0.00	-0.006961028487713

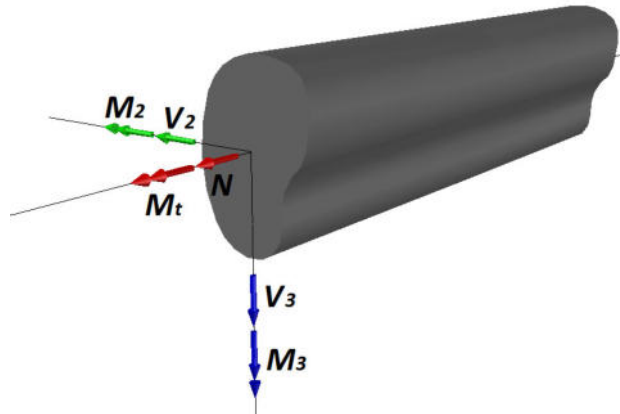
1.4.11.2 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N:** sforzo normale;
- **V₂:** sforzo di taglio in direzione 2;
- **V₃:** sforzo di taglio in direzione 3;
- **M_t:** momento torcente;

- M_2 : momento flettente nel piano 1-2;
- M_3 : momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
Asta 23 (61-56)	53	massimi	0.00	9.18686	19.15877	30.02476	9.87372	41.93458	9.43
Asta 23 (61-56)	53	massimi	204.50	17.94753	1.99041	6.57034	9.87371	-12.32762	8.436
Asta 23 (61-56)	53	massimi	409.00	38.01494	21.23059	72.40522	9.87371	-1.11635	13.495
Asta 23 (61-56)	53	minimi	0.00	-6.29909	-18.00193	-71.42455	1.91486	-52.93551	-7.459
Asta 23 (61-56)	53	minimi	204.50	-20.85067	-1.13885	-30.64341	1.91487	-58.62044	-8.575
Asta 23 (61-56)	53	minimi	409.00	-46.7428	-20.95702	-8.4057	1.91488	-63.62879	-14.851
Asta 25 (56-86)	55	massimi	0.00	17.14708	13.6878	-35.95945	12.72423	71.08159	6.711
Asta 25 (56-86)	55	massimi	166.00	6.06974	6.37878	46.17596	12.72424	-32.9178	9.916
Asta 25 (56-86)	55	massimi	332.00	17.158	34.35747	96.06441	12.72424	80.71143	21.483
Asta 25 (56-86)	55	minimi	0.00	-16.62974	-18.30439	-94.0148	-14.29472	-54.8421	-8.84
Asta 25 (56-86)	55	minimi	166.00	-6.23381	-6.55024	-42.72403	-14.29472	-46.4365	-8.156
Asta 25 (56-86)	55	minimi	332.00	-18.00474	-30.43613	37.17685	-14.29471	-54.83052	-22.846
Asta 26 (91-61)	56	massimi	0.00	17.11128	32.0107	18.6785	14.10755	70.19793	18.151
Asta 26 (91-61)	56	massimi	166.00	4.16881	5.26193	50.29244	14.10755	-0.8737	9.346
Asta 26 (91-61)	56	massimi	332.00	18.48347	15.2691	48.22784	14.10755	69.28815	9.157
Asta 26 (91-61)	56	minimi	0.00	-17.83993	-28.19906	-42.92361	-13.64442	-77.54959	-17.016
Asta 26 (91-61)	56	minimi	166.00	-4.83412	-5.49705	-51.78337	-13.64441	-24.93071	-11.184
Asta 26 (91-61)	56	minimi	332.00	-19.09053	-19.8915	-25.4672	-13.64441	-80.84487	-7.05
Asta 34 (86-91)	64	massimi	0.00	78.4346	20.60646	18.05416	-0.72804	-1.75766	16.701
Asta 34 (86-91)	64	massimi	204.50	44.28091	7.56124	29.93931	-0.72804	-6.71866	8.663
Asta 34 (86-91)	64	massimi	409.00	13.14587	20.18865	65.36569	-0.72803	42.41037	17.876
Asta 34 (86-91)	64	minimi	0.00	-84.69547	-21.91446	-75.55101	-9.12303	-64.98705	-18.407
Asta 34 (86-91)	64	minimi	204.50	-45.54417	-8.20307	-6.15272	-9.12303	-61.18977	-8.454
Asta 34 (86-91)	64	minimi	409.00	-9.42624	-20.6371	-27.85475	-9.12303	-54.43316	-16.61

Asta 48 (146-141)	78	massimi	0.00	30.22763	57.23825	81.72037	45.31087	127.58634	68.76
Asta 48 (146-141)	78	massimi	165.00	113.89232	21.66022	102.9338	45.31088	30.25909	46.268
Asta 48 (146-141)	78	massimi	330.00	198.46082	72.0141	327.37441	45.3109	222.43521	27.776
Asta 48 (146-141)	78	minimi	0.00	-17.54579	-57.4607	-132.0951	-52.51271	-156.44362	-68.411
Asta 48 (146-141)	78	minimi	165.00	-107.66651	-22.65012	-106.83417	-52.51272	-131.3928	-45.437
Asta 48 (146-141)	78	minimi	330.00	-198.64387	-77.3548	-4.97288	-52.51274	-109.72036	-22.175
Asta 50 (156-146)	80	massimi	0.00	130.95049	34.75874	-40.30025	47.47966	78.55042	7.273
Asta 50 (156-146)	80	massimi	190.00	61.80386	12.35678	77.98553	47.47963	22.0715	23.618
Asta 50 (156-146)	80	massimi	380.00	33.71395	91.05179	150.00999	47.47961	135.72544	69.904
Asta 50 (156-146)	80	minimi	0.00	-126.3916	-33.66726	-187.4939	-57.73715	-44.28617	-7.877
Asta 50 (156-146)	80	minimi	190.00	-58.58911	-12.09253	-44.14805	-57.73713	-113.80245	-26.065
Asta 50 (156-146)	80	minimi	380.00	-31.81102	-95.77851	-102.2787	-57.73712	-127.2047	-68.877

1.5 Tensioni sul Terreno elementi Beam

I dati seguenti riportano i valori delle tensioni massime esercitate dalla fondazione sul terreno.

1.5.1 Tensioni sul Terreno Travi di Fondazione

Asta : Numerazione dell'asta (vedi "Asta C." in "Caratteristiche delle Aste");

X : Distanza dal nodo iniziale misurata lungo l'asse dell'asta;

Tensioni (σ_T) : Valore della tensione dovuta alla pressione dell'asta di fondazione;

Tensioni Terreno									
		SLU		SLV		SLD	SLE		
		A1	A2	A1	A2		Caratt.	Freq.	Q. Perm.
Asta	X [cm]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]
53	0.00	38.392	31.109	63.42	63.42	52.461	27.873	25.723	24.864
53	204.50	20.069	16.156	33.335	33.335	28.716	14.681	13.74	13.364
53	409.00	122.409	100.301	113.785	113.785	101.077	87.697	79.00	75.521
55	0.00	122.409	100.301	113.785	113.785	101.077	87.697	79.00	75.521
55	166.00	82.276	67.341	57.229	57.229	55.588	59.024	53.289	50.995
55	332.00	116.715	95.623	112.013	112.013	99.713	83.63	75.42	72.136
56	0.00	35.911	29.067	71.796	71.796	60.477	26.105	24.213	23.456
56	166.00	23.807	19.181	28.465	28.465	25.149	17.399	16.222	15.752
56	332.00	38.392	31.109	63.42	63.42	52.461	27.873	25.723	24.864
64	0.00	116.715	95.623	112.013	112.013	99.713	83.63	75.42	72.136
64	204.50	18.185	14.603	32.525	32.525	26.618	13.342	12.566	12.256

64	409.00	35.911	29.067	71.796	71.796	60.477	26.105	24.213	23.456
78	0.00	0.00	0.00	130.972	130.972	85.297	0.00	0.00	0.00
78	165.00	110.059	89.363	152.641	152.641	133.744	79.71	72.814	70.056
78	330.00	327.468*	267.695*	360.025*	360.025*	307.613*	235.271*	211.823*	202.444*
80	0.00	261.567	212.571	234.14	234.14	220.134	189.241	169.53	161.646
80	190.00	65.625	52.807	88.348	88.348	76.732	48.032	43.947	42.313
80	380.00	0.00	0.00	130.972	130.972	85.297	0.00	0.00	0.00

(*) valore massimo.

1.5.2 Tensioni sul Terreno Piastre di Fondazione

Piastra : Numerazione della piastra (vedi "Piastra C." in "Caratteristiche delle Piastre");

Tensioni (σ_T) : Valore della tensione dovuta alla pressione della piastra di fondazione;

	Tensioni Terreno							
	SLU		SLV		SLD	SLE		
	A1	A2	A1	A2		Caratt.	Freq.	Q. Perm.
Piastra	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]	σ_t [kN/m ²]
1	128.815	104.417	270.905	270.905	186.591	93.479	85.814	82.748
2	137.524	111.586	262.59	262.59	194.65	99.685	91.43	88.128
3	167.637	137.848	263.376	263.376	196.65	121.95	105.231	100.595
4	213.606	175.049	249.425	249.425	192.339	154.038	132.302	125.895
5	217.165	173.493	309.113	309.113	253.668	151.834	136.28	130.058
6	171.037	139.632	231.179	231.179	180.841	123.078	112.197	107.183
7	239.627	196.761	244.712	244.712	201.747	171.242	151.348	142.838
8	270.089	223.816	307.945	307.945	262.732*	194.181	172.952	159.427
9	170.784	139.422	217.706	217.706	174.986	122.898	112.007	107.008
10	243.292	199.83	237.201	237.201	196.063	173.797	153.392	144.688
11	296.349*	244.064*	317.906*	317.906*	257.911	212.23*	188.215*	173.758*
12	167.984	138.015	227.299	227.299	180.078	122.37	110.887	101.163
13	241.471	194.118	241.786	241.786	197.072	170.56	150.325	142.262
14	285.59	232.936	305.179	305.179	234.413	201.696	179.347	172.244
15	149.89	122.349	241.321	241.321	174.126	108.869	99.997	91.419
16	203.164	166.771	238.847	238.847	186.971	146.128	130.316	123.492
17	191.107	157.109	238.258	238.258	182.572	136.37	123.831	117.972
18	264.666	217.395	259.924	259.924	207.601	187.246	165.32	157.019
19	242.975	200.194	282.513	282.513	216.327	172.914	152.248	143.982
20	254.031	208.416	302.726	302.726	244.966	181.716	159.762	150.981
21	197.832	161.897	239.578	239.578	185.909	144.681	128.04	121.384
22	239.561	197.087	246.878	246.878	199.504	172.264	150.929	137.437
23	109.343	89.469	136.752	136.752	107.002	73.71	68.407	65.32
24	176.174	144.55	175.106	175.106	143.212	126.011	114.158	108.209
25	91.152	74.222	103.929	103.929	86.95	65.796	58.778	55.97
26	173.016	142.134	184.762	184.762	152.716	123.569	105.874	98.797
27	267.693	222.871	213.552	213.552	182.064	185.423	153.311	140.466
28	271.672	227.072	207.911	207.911	181.347	193.319	160.666	147.427
29	272.242	227.594	206.133	206.133	182.587	193.757	161.034	147.689
30	272.267	225.804	210.194	210.194	177.52	193.162	155.381	142.355

(*) valore massimo.

VERIFICHE ELEMENTI POST

Archivio: PALESTRA POST.fnx - Data : 19/07/2023

Oggetto: Adeguamento palestra scuola media

Committente	Progettista architettonico	Progettista strutturale	Direttore dei Lavori
Geologo	Collaudatore	Appaltatore	

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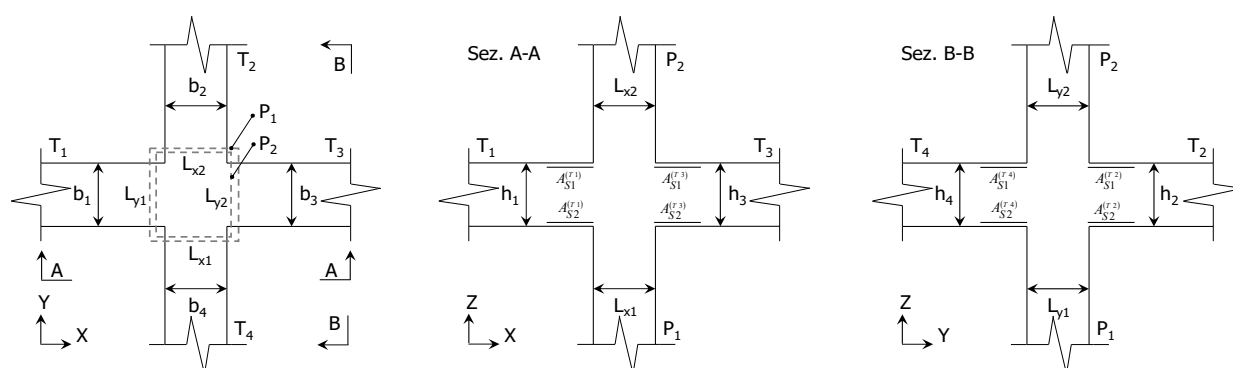
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PREMESSA

Procedura di verifica degli elementi

Il tipo di calcolo eseguito è "Adeguamento struttura esistente".

Nel caso in esame la progettazione degli elementi, sono stati esclusi dalla verifica i nodi, ai sensi del § C7.4.4.3.1 della Circolare 2019 del D.M. 2018, in quanto la struttura è stata analizzata come **NON DISSIPATIVA**.



(a) Vista nel piano X - Y

(b) Vista nel piano X - Z

(c) Vista nel piano Y - Z

Le NTC2018 introducono una novità rispetto alle precedenti NTC2008 in tema di verifica di resistenza dei nodi. Il nodo trave-pilastro è definito come quella parte del pilastro che si sovrappone alle travi in esso concorrenti. La verifica di resistenza deve assicurare che il nodo trave-pilastro non collassi prima delle zone dissipative delle travi e dei pilastri ad esso adiacenti.

Le NTC2018 prescrivono di eseguire la verifica di resistenza dei nodi delle strutture in calcestruzzo armato sia per le strutture in classe di duttilità **alta** (CD"A") che **media** (CD"B"). Tali verifiche invece non vanno eseguite nel caso di strutture **non dissipative** (par. C.7.4.4.3.1 Circ. 2019).

1 Risultati delle Verifiche

1.1 Riassunto delle verifiche

Calcestruzzo Armato

Per gli elementi in calcestruzzo armato sono state effettuate le seguenti verifiche:

Pilastrri

Flessione composta (SLU)
 Flessione composta (SLV)
 Flessione composta (SLD)
 Taglio (SLU)
 Taglio (SLV)
 Taglio (SLD)
 Torsione (SLU)
 Torsione (SLV)
 Stabilità elastica (SLU)
 Resistenza massima a compressione sezione cls (SLV)
 Dettagli costruttivi per la duttilità
 Duttilità (SLV)
 Spostamenti relativi (RIG) (SLO)
 Stato tensionale (SLE Car., SLE Quasi Permanenti)
 Fessurazione (SLE Frequenti, SLE Quasi Permanenti)

Travi di Elevazione, Collegamenti plinti

Flessione composta (SLU, NsdColl)
 Flessione composta (SLV, NsdColl)
 Flessione composta (SLD)
 Taglio (SLU, NsdColl)
 Taglio (SLV, NsdColl)
 Taglio (SLD)
 Torsione (SLU, NsdColl)
 Torsione (SLV, NsdColl)
 Deformabilità (SLE Car., SLE Frequenti, SLE Quasi Permanenti)
 Stato tensionale (SLE Car., SLE Frequenti, SLE Quasi Permanenti)
 Fessurazione (SLE Frequenti, SLE Quasi Permanenti)

RIASSUNTO RISULTATI VERIFICHE:

Elemento : Tipo di elemento;
 Tipo verifica : Verifica analizzata;
 sMin : Coefficiente di sicurezza minimo;
 Elem. sMin : Elemento a cui corrisponde il coefficiente di sicurezza minimo;
 sMax : Coefficiente di sicurezza max;
 Elem. sMax : Elemento a cui corrisponde il coefficiente di sicurezza max;

Elemento	Tipo verifica	sMin	Elem. sMin	sMax	Elem. sMax
Pilastr	Flessione composta SLU	1.14	Asta 217 (84-83) [Pilastr]	47.79	Asta 125 (222-221) [Pilastr]
Pilastr	Flessione composta SLV	0.86	Asta 208 (24-23) [Pilastr]	6.56	Asta 125 (222-221) [Pilastr]
Pilastr	Flessione composta SLD	1.10	Asta 220 (114-113) [Pilastr]	13.82	Asta 125 (222-221) [Pilastr]
Pilastr	Taglio SLU	2.39	Asta 220 (114-113) [Pilastr]	100.00	Asta 129 (242-241) [Pilastr]
Pilastr	Taglio SLV	0.91	Asta 223 (129-128) [Pilastr]	2.98	Asta 166 (138-137) [Pilastr]
Pilastr	Taglio SLD	1.50	Asta 220 (114-113) [Pilastr]	7.62	Asta 166 (138-137) [Pilastr]
Pilastr	Torsione SLU	100.00	Asta 99 (22-21) [Pilastr]	100.00	Asta 99 (22-21) [Pilastr]
Pilastr	Torsione SLV	100.00	Asta 99 (22-21) [Pilastr]	100.00	Asta 99 (22-21) [Pilastr]
Pilastr	Stabilità elastica	100.00	Asta 99 (22-21) [Pilastr]	100.00	Asta 99 (22-21) [Pilastr]
Pilastr	Resistenza massima a compressione sezione cls SLV	2.52	Asta 105 (52-51) [Pilastr]	8.60	Asta 226 (144-143) [Pilastr]
Pilastr	Dettagli costruttivi per la duttilità SLV	1.63	Asta 121 (142-141) [Pilastr]	12.99	Asta 125 (222-221) [Pilastr]
Pilastr	Duttilità SLV	1.03	Asta 102 (37-36) [Pilastr]	1.79	Asta 120 (137-136) [Pilastr]
Pilastr	Spostamenti relativi (RIG) SLO	0.96	Asta 208 (24-23) [Pilastr]	2.15	Asta 162 (118-117) [Pilastr]
Pilastr	Stato tensionale SLE	0.72	Asta 220 (114-113) [Pilastr]	8.59	Asta 125 (222-221) [Pilastr]
Pilastr	Fessurazione SLE	2.16	Asta 220 (114-113) [Pilastr]	100.00	Asta 105 (52-51) [Pilastr]
Nodi	Gerarchia delle resistenze SLV	0.30	Nodo 132	100.00	Nodo 2
Nodi	Verifica di resistenza Nodi SLV	0.80	Nodo 113	4.43	Nodo 242
Nodi	Verifica di resistenza Nodi SLD	1.15	Nodo 113	5.20	Nodo 237
Nodi	Verifica di resistenza Nodi esistenti in assenza di armature SLV	2.06	Nodo 10	2.10	Nodo 5
Nodi	Verifica di resistenza Nodi esistenti in assenza di armature SLD	2.76	Nodo 5	2.77	Nodo 10
Nodi	Controllo armatura Nodo	1.00	Nodo 2	1.50	Nodo 20
Travi di Elevazione, Collegamenti plinti	Flessione composta SLU	0.81	Asta 132 (58-68) [Trave]	9.60	Asta 246 (75-45) [Trave]
Travi di Elevazione, Collegamenti plinti	Flessione composta SLV	1.01	Asta 51 (12-2) [Trave]	3.38	Asta 72 (67-52) [Trave]
Travi di Elevazione, Collegamenti plinti	Flessione composta SLD	1.00	Asta 61 (42-27) [Trave]	3.57	Asta 72 (67-52) [Trave]
Travi di Elevazione, Collegamenti plinti	Taglio SLU	1.54	Asta 59 (227-17) [Trave]	28.99	Asta 73 (82-67) [Trave]
Travi di Elevazione, Collegamenti plinti	Taglio SLV	0.97	Asta 136 (98-83) [Trave]	6.09	Asta 134 (93-63) [Trave]
Travi di Elevazione, Collegamenti plinti	Taglio SLD	2.51	Asta 81 (102-117) [Trave]	16.94	Asta 73 (82-67) [Trave]
Travi di Elevazione, Collegamenti plinti	Torsione SLU	100.00	Asta 7 (16-21) [Collegamento plinti]	100.00	Asta 7 (16-21) [Collegamento plinti]
Travi di Elevazione, Collegamenti plinti	Torsione SLV	100.00	Asta 7 (16-21) [Collegamento plinti]	100.00	Asta 7 (16-21) [Collegamento plinti]
Travi di Elevazione, Collegamenti plinti	Deformabilità SLE	1.42	Asta 132 (58-68) [Trave]	40.00	Asta 13 (31-36) [Collegamento plinti]
Travi di Elevazione, Collegamenti plinti	Stato tensionale SLE	0.56	Asta 132 (58-68) [Trave]	10.50	Asta 246 (75-45) [Trave]
Travi di Elevazione, Collegamenti plinti	Fessurazione SLE	1.35	Asta 132 (58-68) [Trave]	100.00	Asta 7 (16-21) [Collegamento plinti]

1.2 Calcestruzzo armato

Nei seguenti paragrafi si riportano i risultati delle verifiche per gli elementi in calcestruzzo armato.

1.2.1 Pilastri

Nei seguenti paragrafi si riportano i risultati delle verifiche dei pilastri.

1.2.1.1 Flessione composta retta in direzione 2 SLU

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Pilastro	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	Nrd [kN]	Mrd3 [kNm]	Mrd2 [kNm]					
Asta 99 (22-21)	0.00	1809.56	SLU	CC1	-301.50	-39.91	0.00	-301.50	-75.33	0.00	0.35	0.50	3	1.89	V
Asta 102 (37-36)	0.00	2488.14	SLU	CC1	-397.87	-35.85	0.00	-397.87	-86.51	0.00	0.35	0.33	3	2.41	V
Asta 105 (52-51)	0.00	1583.36	SLU	CC1	-455.51	-17.01	0.00	-455.51	-71.95	0.00	0.35	0.32	3	4.23	V
Asta 110 (82-81)	0.00	1809.56	SLU	CC1	-450.26	6.59	0.00	-450.26	74.40	0.00	0.35	0.31	3	11.29	V
Asta 115 (112-111)	0.00	2488.14	SLU	CC1	-257.43	40.81	0.00	-257.43	83.81	0.00	0.35	0.44	3	2.05	V
Asta 116 (117-116)	0.00	2714.34	SLU	CC1	-391.72	-29.30	0.00	-391.72	-89.34	0.00	0.35	0.33	3	3.05	V
Asta 117 (122-121)	0.00	2488.14	SLU	CC1	-355.84	-16.83	0.00	-355.84	-85.75	0.00	0.35	0.36	3	5.09	V
Asta 118 (127-126)	0.00	1583.36	SLU	CC1	-370.09	25.62	0.00	-370.09	66.53	0.00	0.35	0.38	3	2.60	V
Asta 119 (132-131)	0.00	1809.56	SLU	CC1	-251.67	23.40	0.00	-251.67	66.32	0.00	0.35	0.48	3	2.83	V
Asta 120 (137-136)	0.00	1357.17	SLU	CC1	-361.22	6.26	0.00	-361.22	63.07	0.00	0.35	0.42	3	10.07	V
Asta 121 (142-141)	180.00	3386.64	SLU	CC1	-335.86	-79.93	0.00	-335.86	-105.39	0.00	0.35	0.35	3	1.32	V
Asta 123 (152-151)	0.00	2261.95	SLU	CC1	-247.23	7.61	0.00	-247.23	79.95	0.00	0.35	0.49	3	10.50	V
Asta 125 (222-221)	0.00	3386.64	SLU	CC1	-220.58	-2.16	0.00	-220.58	-103.36	0.00	0.35	0.43	3	47.79	V
Asta 126 (227-226)	0.00	2488.14	SLU	CC1	-383.08	-4.93	0.00	-383.08	-86.25	0.00	0.35	0.34	3	17.49	V
Asta 127 (232-231)	0.00	2261.95	SLU	CC1	-391.00	-4.49	0.00	-391.00	-83.66	0.00	0.35	0.34	3	18.64	V
Asta 128 (237-236)	0.00	2035.75	SLU	CC1	-391.91	4.44	0.00	-391.91	80.57	0.00	0.35	0.36	3	18.14	V
Asta 129 (242-241)	0.00	2035.75	SLU	CC1	-389.92	4.70	0.00	-389.92	80.54	0.00	0.35	0.36	3	17.15	V
Asta 145 (23-22)	188.00	2035.75	SLU	CC1	-94.68	24.76	0.00	-94.67	47.87	0.00	0.35	0.45	3	1.93	V
Asta 148 (38-37)	188.00	2463.01	SLU	CC1	-135.30	22.49	0.00	-135.30	57.08	0.00	0.35	0.40	3	2.54	V
Asta 151 (53-52)	0.00	1809.56	SLU	CC1	-192.44	-16.86	0.00	-192.44	-50.29	0.00	0.35	0.41	3	2.98	V
Asta 156 (83-82)	0.00	1130.97	SLU	CC2	-214.89	-2.02	0.00	-214.89	-34.74	0.00	0.35	0.38	3	17.25	V
Asta 161 (113-112)	0.00	2463.01	SLU	CC1	-123.61	30.30	0.00	-123.61	56.86	0.00	0.35	0.41	3	1.88	V

Asta 162 (118-117)	188.00	2035.75	SLU	CC1	-109.67	24.34	0.00	-109.67	50.68	0.00	0.35	0.49	3	2.08	V
Asta 163 (123-122)	188.00	1809.56	SLU	CC1	-84.09	9.15	0.00	-84.10	46.66	0.00	0.35	0.60	3	5.10	V
Asta 164 (128-127)	188.00	1357.17	SLU	CC1	-116.14	-20.95	0.00	-116.14	-40.04	0.00	0.35	0.61	3	1.91	V
Asta 165 (133-132)	188.00	1130.97	SLU	CC1	-138.29	-13.10	0.00	-138.29	-35.84	0.00	0.35	0.57	3	2.73	V
Asta 166 (138-137)	188.00	904.78	SLU	CC1	-135.28	-3.80	0.00	-135.28	-30.38	0.00	0.35	0.57	3	8.00	V
Asta 167 (143-142)	153.00	1583.36	SLU	CC1	-114.26	-24.67	0.00	-114.26	-45.24	0.00	0.35	0.61	3	1.83	V
Asta 169 (153-152)	188.00	1357.17	SLU	CC1	-120.48	-2.61	0.00	-120.48	-40.26	0.00	0.35	0.60	3	15.43	V
Asta 208 (24-23)	0.00	2463.01	SLU	CC1	-89.30	-28.49	0.00	-89.30	-55.24	0.00	0.35	0.43	3	1.94	V
Asta 211 (39-38)	0.00	2463.01	SLU	CC1	-129.92	-25.84	0.00	-129.92	-56.01	0.00	0.35	0.39	3	2.17	V
Asta 214 (54-53)	0.00	2463.01	SLU	CC1	-135.08	-24.28	0.00	-135.08	-56.10	0.00	0.35	0.39	3	2.31	V
Asta 217 (84-83)	87.00	2463.01	SLU	CC1	-127.18	4.60	0.00	-127.18	55.95	0.00	0.35	0.40	3	12.16	V
Asta 220 (114-113)	0.00	2463.01	SLU	CC1	-89.79	28.97	0.00	-89.79	55.25	0.00	0.35	0.43	3	1.91	V
Asta 221 (119-118)	0.00	2463.01	SLU	CC1	-104.25	-37.99	0.00	-104.25	-55.52	0.00	0.35	0.42	3	1.46	V
Asta 222 (124-123)	0.00	2463.01	SLU	CC1	-78.55	-11.48	0.00	-78.55	-55.03	0.00	0.35	0.45	3	4.79	V
Asta 223 (129-128)	0.00	2463.01	SLU	CC1	-110.77	36.88	0.00	-110.77	56.62	0.00	0.35	0.42	3	1.54	V
Asta 224 (134-133)	0.00	1809.56	SLU	CC1	-132.91	14.13	0.00	-132.91	45.85	0.00	0.35	0.45	3	3.24	V
Asta 225 (139-138)	0.00	1357.17	SLU	CC1	-129.74	4.79	0.00	-129.74	37.84	0.00	0.35	0.53	3	7.90	V
Asta 226 (144-143)	0.00	2463.01	SLU	CC1	-75.46	28.18	0.00	-75.46	54.97	0.00	0.35	0.45	3	1.95	V
Asta 228 (154-153)	0.00	2261.95	SLU	CC1	-114.89	3.71	0.00	-114.89	52.60	0.00	0.35	0.42	3	14.18	V

1.2.1.2 Flessione composta retta CAM in direzione 2 SLV

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Pilastro	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	Ms3 [kNm]	Ms2 [kNm]	Nrd [kN]	Mrd3 [kNm]	Mrd2 [kNm]					
Asta 99 (22-21)	0.00	1809.56	SLV	CC5	-138.00	-60.53	0.00	-137.99	-67.16	0.00	0.35	0.87	3	1.11	V
Asta 102 (37-36)	180.00	2488.14	SLV	CC11	-238.59	80.67	0.00	-238.59	83.42	0.00	0.35	0.46	3	1.03	V
Asta 105 (52-51)	180.00	1583.36	SLV	CC11	-276.91	64.57	0.00	-276.91	67.80	0.00	0.35	0.54	3	1.05	V
Asta 110 (82-81)	0.00	1809.56	SLV	CC14	-263.03	53.26	0.00	-263.03	70.23	0.00	0.35	0.52	3	1.32	V
Asta 115 (112-111)	180.00	2488.14	SLV	CC14	-149.56	-77.38	0.00	-149.56	-80.36	0.00	0.35	0.56	3	1.04	V
Asta 116 (117-116)	0.00	2714.34	SLV	CC12	-229.80	-56.39	0.00	-229.80	-86.38	0.00	0.35	0.44	3	1.53	V
Asta 117 (122-121)	200.00	2488.14	SLV	CC11	-248.27	48.58	0.00	-248.27	83.62	0.00	0.35	0.45	3	1.72	V
Asta 118 (127-126)	0.00	1583.36	SLV	CC13	-248.98	57.18	0.00	-248.99	62.81	0.00	0.35	0.54	3	1.10	V
Asta 119 (132-131)	180.00	1809.56	SLV	CC16	-181.19	-48.74	0.00	-181.19	-64.28	0.00	0.35	0.56	3	1.32	V
Asta 120 (137-136)	200.00	1357.17	SLV	CC16	-228.69	-58.49	0.00	-228.69	-59.18	0.00	0.35	0.64	3	1.01	V
Asta 121 (142-141)	180.00	3386.64	SLV	CC14	-255.41	-102.79	0.00	-255.41	-103.99	0.00	0.35	0.40	3	1.01	V
Asta 123 (152-151)	200.00	2261.95	SLV	CC14	-149.76	-20.81	0.00	-149.76	-76.85	0.00	0.35	0.61	3	3.69	V
Asta 125 (222-221)	200.00	3386.64	SLV	CC12	-128.40	15.40	0.00	-128.40	101.00	0.00	0.35	0.50	3	6.56	V

Asta 126 (227-226)	200.00	2488.14	SLV	CC12	-196.39	17.54	0.00	-196.39	82.07	0.00	0.35	0.50	3	4.68	V
Asta 127 (232-231)	200.00	2261.95	SLV	CC13	-199.63	-17.65	0.00	-199.63	-78.57	0.00	0.35	0.54	3	4.45	V
Asta 128 (237-236)	200.00	2035.75	SLV	CC13	-200.01	-17.77	0.00	-200.01	-74.62	0.00	0.35	0.62	3	4.20	V
Asta 129 (242-241)	200.00	2035.75	SLV	CC13	-198.81	-17.87	0.00	-198.81	-74.57	0.00	0.35	0.62	3	4.17	V
Asta 145 (23-22)	188.00	2035.75	SLV	CC11	-65.44	35.60	0.00	-65.44	47.06	0.00	0.35	0.49	3	1.32	V
Asta 148 (38-37)	188.00	2463.01	SLV	CC11	-85.90	37.86	0.00	-85.90	56.14	0.00	0.35	0.45	3	1.48	V
Asta 151 (53-52)	153.00	1809.56	SLV	CC11	-140.06	39.67	0.00	-140.06	48.81	0.00	0.35	0.50	3	1.23	V
Asta 156 (83-82)	153.00	1130.97	SLV	CC11	-143.58	32.29	0.00	-143.58	32.92	0.00	0.35	0.50	3	1.02	V
Asta 161 (113-112)	0.00	2463.01	SLV	CC14	-69.03	50.89	0.00	-69.03	55.81	0.00	0.35	0.47	3	1.10	V
Asta 162 (118-117)	188.00	2035.75	SLV	CC12	-79.72	39.03	0.00	-79.72	50.04	0.00	0.35	0.52	3	1.28	V
Asta 163 (123-122)	188.00	1809.56	SLV	CC11	-57.39	25.70	0.00	-57.39	45.53	0.00	0.35	0.63	3	1.77	V
Asta 164 (128-127)	188.00	1357.17	SLV	CC13	-81.36	-37.24	0.00	-81.36	-38.22	0.00	0.35	0.69	3	1.03	V
Asta 165 (133-132)	188.00	1130.97	SLV	CC15	-93.35	-26.06	0.00	-93.35	-33.57	0.00	0.35	0.68	3	1.29	V
Asta 166 (138-137)	188.00	904.78	SLV	CC13	-92.04	-25.61	0.00	-92.04	-28.23	0.00	0.35	0.70	3	1.10	V
Asta 167 (143-142)	153.00	1583.36	SLV	CC14	-106.26	-42.95	0.00	-106.26	-44.83	0.00	0.35	0.62	3	1.04	V
Asta 169 (153-152)	188.00	1357.17	SLV	CC14	-78.48	-13.14	0.00	-78.48	-38.06	0.00	0.35	0.70	3	2.90	V
Asta 208 (24-23)	0.00	2463.01	SLV	CC5	-42.37	-41.68	0.00	-42.37	-54.12	0.00	0.35	0.48	3	1.30	V
Asta 211 (39-38)	0.00	2463.01	SLV	CC5	-63.55	-48.37	0.00	-63.55	-54.73	0.00	0.35	0.46	3	1.13	V
Asta 214 (54-53)	0.00	2463.01	SLV	CC5	-64.55	-54.74	0.00	-64.55	-54.76	0.00	0.35	0.46	3	1.00	V
Asta 217 (84-83)	0.00	2463.01	SLV	CC5	-58.59	-46.13	0.00	-58.59	-54.59	0.00	0.35	0.46	3	1.18	V
Asta 220 (114-113)	0.00	2463.01	SLV	CC14	-56.20	53.00	0.00	-56.20	54.52	0.00	0.35	0.47	3	1.02	V
Asta 221 (119-118)	0.00	2463.01	SLV	CC12	-75.57	-49.95	0.00	-75.57	-54.97	0.00	0.35	0.45	3	1.10	V
Asta 222 (124-123)	0.00	2463.01	SLV	CC11	-53.12	-30.67	0.00	-53.12	-54.43	0.00	0.35	0.47	3	1.77	V
Asta 223 (129-128)	0.00	2463.01	SLV	CC13	-77.24	52.36	0.00	-77.24	55.97	0.00	0.35	0.46	3	1.07	V
Asta 224 (134-133)	0.00	1809.56	SLV	CC16	-89.40	31.99	0.00	-89.40	44.91	0.00	0.35	0.51	3	1.40	V
Asta 225 (139-138)	0.00	1357.17	SLV	CC13	-87.76	33.45	0.00	-87.76	36.24	0.00	0.35	0.60	3	1.08	V
Asta 226 (144-143)	0.00	2463.01	SLV	CC14	-44.00	53.43	0.00	-44.00	54.16	0.00	0.35	0.48	3	1.01	V
Asta 228 (154-153)	0.00	2261.95	SLV	CC14	-74.18	11.46	0.00	-74.18	51.77	0.00	0.35	0.47	3	4.52	V

1.2.1.3 Flessione composta retta RINGROSSI IN C.A. in direzione 2 SLD

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Pilastro	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					NSd [kN]	MSd3 [kNm]	MSd2 [kNm]	NRd [kN]	MRd3 [kNm]	MRd2 [kNm]					
Asta 99 (22-21)	0.00	1809.56	SLD	CC5	-132.29	-64.54	0.00	-132.29	-97.47	0.00	0.14	0.21	2	1.51	V
Asta 102 (37-36)	0.00	2488.14	SLD	CC11	-253.00	-80.15	0.00	-253.00	-121.11	0.00	0.18	0.21	2	1.51	V
Asta 105 (52-51)	0.00	1583.36	SLD	CC11	-285.01	-72.67	0.00	-285.01	-100.49	0.00	0.17	0.21	2	1.38	V
Asta 110 (82-81)	0.00	1809.56	SLD	CC14	-250.42	65.17	0.00	-250.42	101.52	0.00	0.17	0.21	2	1.56	V

Asta 115 (112-111)	0.00	2488.14	SLD	CC14	-140.11	84.44	0.00	-140.11	112.02	0.00	0.16	0.21	2	1.33	V
Asta 116 (117-116)	0.00	2714.34	SLD	CC12	-228.19	-61.97	0.00	-228.19	-123.63	0.00	0.19	0.21	2	1.99	V
Asta 117 (122-121)	0.00	2488.14	SLD	CC11	-195.50	-52.69	0.00	-195.50	-116.55	0.00	0.17	0.21	2	2.21	V
Asta 118 (127-126)	0.00	1583.36	SLD	CC13	-252.73	62.93	0.00	-252.73	91.08	0.00	0.16	0.21	2	1.45	V
Asta 119 (132-131)	0.00	1809.56	SLD	CC14	-166.27	48.97	0.00	-166.27	88.33	0.00	0.15	0.21	2	1.80	V
Asta 120 (137-136)	0.00	1357.17	SLD	CC14	-215.55	59.30	0.00	-215.55	83.64	0.00	0.15	0.21	2	1.41	V
Asta 121 (142-141)	180.00	3386.64	SLD	CC14	-273.72	-126.85	0.00	-273.72	-151.61	0.00	0.20	0.21	3	1.20	V
Asta 123 (152-151)	0.00	2261.95	SLD	CC14	-146.76	23.00	0.00	-146.76	107.86	0.00	0.16	0.21	2	4.69	V
Asta 125 (222-221)	200.00	3386.64	SLD	CC12	-134.40	10.34	0.00	-134.40	142.79	0.00	0.18	0.21	2	13.82	V
Asta 126 (227-226)	0.00	2488.14	SLD	CC12	-194.84	-11.83	0.00	-194.84	-116.49	0.00	0.17	0.21	2	9.84	V
Asta 127 (232-231)	200.00	2261.95	SLD	CC13	-197.84	-11.90	0.00	-197.84	-112.18	0.00	0.17	0.21	2	9.42	V
Asta 128 (237-236)	200.00	2035.75	SLD	CC13	-204.04	-12.05	0.00	-204.04	-108.22	0.00	0.17	0.21	2	8.98	V
Asta 129 (242-241)	200.00	2035.75	SLD	CC13	-204.93	-12.16	0.00	-204.94	-108.30	0.00	0.17	0.21	2	8.90	V
Asta 145 (23-22)	188.00	2035.75	SLD	CC11	-68.68	38.94	0.00	-68.68	65.37	0.00	0.17	0.21	2	1.68	V
Asta 148 (38-37)	188.00	2463.01	SLD	CC11	-92.32	42.62	0.00	-92.32	80.36	0.00	0.19	0.21	2	1.89	V
Asta 151 (53-52)	153.00	1809.56	SLD	CC11	-144.48	45.80	0.00	-144.48	71.40	0.00	0.19	0.21	2	1.56	V
Asta 156 (83-82)	153.00	1130.97	SLD	CC11	-135.24	38.57	0.00	-135.24	46.05	0.00	0.16	0.21	2	1.19	V
Asta 161 (113-112)	0.00	2463.01	SLD	CC14	-67.99	57.25	0.00	-67.98	78.87	0.00	0.19	0.21	2	1.38	V
Asta 162 (118-117)	188.00	2035.75	SLD	CC12	-72.00	43.08	0.00	-72.00	70.11	0.00	0.17	0.21	2	1.63	V
Asta 163 (123-122)	188.00	1809.56	SLD	CC11	-58.95	28.30	0.00	-58.95	65.57	0.00	0.16	0.21	2	2.32	V
Asta 164 (128-127)	188.00	1357.17	SLD	CC13	-82.31	-41.39	0.00	-82.31	-55.40	0.00	0.15	0.21	2	1.34	V
Asta 165 (133-132)	188.00	1130.97	SLD	CC13	-90.13	-27.77	0.00	-90.13	-47.59	0.00	0.14	0.21	2	1.71	V
Asta 166 (138-137)	188.00	904.78	SLD	CC14	-93.88	-28.50	0.00	-93.88	-39.47	0.00	0.14	0.21	2	1.38	V
Asta 167 (143-142)	153.00	1583.36	SLD	CC14	-114.24	-47.69	0.00	-114.24	-66.10	0.00	0.17	0.21	2	1.39	V
Asta 169 (153-152)	188.00	1357.17	SLD	CC14	-78.82	-13.21	0.00	-78.82	-55.14	0.00	0.15	0.21	2	4.17	V
Asta 208 (24-23)	0.00	2463.01	SLD	CC5	-42.57	-43.13	0.00	-42.57	-76.23	0.00	0.18	0.21	2	1.77	V
Asta 211 (39-38)	0.00	2463.01	SLD	CC11	-88.18	-52.77	0.00	-88.18	-79.01	0.00	0.20	0.21	2	1.50	V
Asta 214 (54-53)	0.00	2463.01	SLD	CC11	-68.78	-61.65	0.00	-68.78	-77.84	0.00	0.19	0.21	2	1.26	V
Asta 217 (84-83)	0.00	2463.01	SLD	CC11	-81.57	-53.59	0.00	-81.56	-78.61	0.00	0.19	0.21	2	1.47	V
Asta 220 (114-113)	0.00	2463.01	SLD	CC14	-54.44	69.85	0.00	-54.44	76.96	0.00	0.19	0.21	2	1.10	V
Asta 221 (119-118)	0.00	2463.01	SLD	CC12	-67.80	-52.83	0.00	-67.80	-77.78	0.00	0.19	0.21	2	1.47	V
Asta 222 (124-123)	0.00	2463.01	SLD	CC11	-54.62	-32.76	0.00	-54.62	-76.97	0.00	0.18	0.21	2	2.35	V
Asta 223 (129-128)	0.00	2463.01	SLD	CC13	-78.19	55.35	0.00	-78.19	79.50	0.00	0.19	0.21	2	1.44	V
Asta 224 (134-133)	0.00	1809.56	SLD	CC14	-86.21	32.99	0.00	-86.21	62.84	0.00	0.17	0.21	2	1.90	V
Asta 225 (139-138)	0.00	1357.17	SLD	CC14	-89.60	35.43	0.00	-89.60	51.15	0.00	0.15	0.21	2	1.44	V
Asta 226 (144-143)	0.00	2463.01	SLD	CC14	-42.14	63.25	0.00	-42.14	76.20	0.00	0.18	0.21	2	1.20	V
Asta 228 (154-153)	0.00	2261.95	SLD	CC14	-74.52	12.36	0.00	-74.51	72.93	0.00	0.18	0.21	2	5.90	V

1.2.1.4 Flessione composta retta CAM in direzione 3 SLU

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si

rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Pilastro	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	Nrd [kN]	Mrd3 [kNm]	Mrd2 [kNm]					
Asta 99 (22-21)	0.00	1809.56	SLU	CC1	-301.50	-21.72	0.00	-301.50	-60.56	0.00	0.35	0.38	3	2.79	V
Asta 102 (37-36)	0.00	2488.14	SLU	CC1	-397.87	-35.34	0.00	-397.87	-82.55	0.00	0.35	0.32	3	2.34	V
Asta 105 (52-51)	0.00	1583.36	SLU	CC1	-455.51	-33.81	0.00	-455.51	-59.82	0.00	0.35	0.29	3	1.77	V
Asta 110 (82-81)	180.00	1809.56	SLU	CC1	-456.31	50.33	0.00	-456.31	66.70	0.00	0.35	0.29	3	1.33	V
Asta 115 (112-111)	0.00	2488.14	SLU	CC1	-257.43	-40.08	0.00	-257.43	-80.27	0.00	0.35	0.42	3	2.00	V
Asta 116 (117-116)	180.00	2714.34	SLU	CC1	-397.74	-57.40	0.00	-397.74	-89.42	0.00	0.35	0.32	3	1.56	V
Asta 117 (122-121)	0.00	2488.14	SLU	CC1	-355.84	-57.01	0.00	-355.84	-81.98	0.00	0.35	0.35	3	1.44	V
Asta 118 (127-126)	180.00	1583.36	SLU	CC1	-376.23	-21.36	0.00	-376.23	-62.69	0.00	0.35	0.35	3	2.93	V
Asta 119 (132-131)	0.00	1809.56	SLU	CC1	-251.67	-17.26	0.00	-251.67	-66.32	0.00	0.35	0.48	3	3.84	V
Asta 120 (137-136)	0.00	1357.17	SLU	CC1	-361.22	4.89	0.00	-361.22	55.45	0.00	0.35	0.37	3	11.34	V
Asta 121 (142-141)	0.00	3386.64	SLU	CC1	-329.86	-26.50	0.00	-329.86	-100.10	0.00	0.35	0.34	3	3.78	V
Asta 123 (152-151)	0.00	2261.95	SLU	CC1	-247.23	-26.59	0.00	-247.23	-73.11	0.00	0.35	0.43	3	2.75	V
Asta 125 (222-221)	0.00	3386.64	SLU	CC1	-220.58	-4.55	0.00	-220.58	-98.66	0.00	0.35	0.40	3	21.68	V
Asta 126 (227-226)	0.00	2488.14	SLU	CC1	-383.08	-6.80	0.00	-383.08	-82.35	0.00	0.35	0.33	3	12.11	V
Asta 127 (232-231)	0.00	2261.95	SLU	CC1	-391.00	-9.23	0.00	-391.00	-75.58	0.00	0.35	0.33	3	8.18	V
Asta 128 (237-236)	0.00	2035.75	SLU	CC1	-391.91	-8.36	0.00	-391.91	-68.71	0.00	0.35	0.33	3	8.22	V
Asta 129 (242-241)	0.00	2035.75	SLU	CC1	-389.92	-5.02	0.00	-389.92	-68.69	0.00	0.35	0.33	3	13.68	V
Asta 145 (23-22)	188.00	2035.75	SLU	CC1	-94.68	21.30	0.00	-94.67	50.36	0.00	0.35	0.51	3	2.36	V
Asta 148 (38-37)	188.00	2463.01	SLU	CC1	-135.30	32.68	0.00	-135.30	57.08	0.00	0.35	0.40	3	1.75	V
Asta 151 (53-52)	153.00	1809.56	SLU	CC1	-195.13	29.81	0.00	-195.12	44.05	0.00	0.35	0.36	3	1.48	V
Asta 156 (83-82)	153.00	1130.97	SLU	CC1	-226.75	26.08	0.00	-226.75	37.73	0.00	0.35	0.42	3	1.45	V
Asta 161 (113-112)	153.00	2463.01	SLU	CC1	-126.30	29.82	0.00	-126.30	56.91	0.00	0.35	0.41	3	1.91	V
Asta 162 (118-117)	188.00	2035.75	SLU	CC1	-109.67	-26.25	0.00	-109.67	-48.12	0.00	0.35	0.44	3	1.83	V
Asta 163 (123-122)	188.00	1809.56	SLU	CC1	-84.09	32.29	0.00	-84.09	42.25	0.00	0.35	0.47	3	1.31	V
Asta 164 (128-127)	188.00	1357.17	SLU	CC1	-116.14	-12.11	0.00	-116.14	-34.84	0.00	0.35	0.48	3	2.88	V
Asta 165 (133-132)	188.00	1130.97	SLU	CC1	-138.29	6.05	0.00	-138.29	32.77	0.00	0.35	0.51	3	5.42	V
Asta 166 (138-137)	0.00	904.78	SLU	CC1	-132.08	1.90	0.00	-132.08	30.23	0.00	0.35	0.58	3	15.92	V
Asta 167 (143-142)	153.00	1583.36	SLU	CC1	-114.26	17.27	0.00	-114.26	37.53	0.00	0.35	0.43	3	2.17	V
Asta 169 (153-152)	188.00	1357.17	SLU	CC1	-120.48	14.88	0.00	-120.48	34.93	0.00	0.35	0.47	3	2.35	V
Asta 208 (24-23)	0.00	2463.01	SLU	CC1	-89.30	-32.80	0.00	-89.30	-55.24	0.00	0.35	0.43	3	1.68	V
Asta 211 (39-38)	0.00	2463.01	SLU	CC1	-129.92	-44.76	0.00	-129.92	-56.01	0.00	0.35	0.39	3	1.25	V
Asta 214 (54-53)	0.00	2463.01	SLU	CC1	-135.08	-43.90	0.00	-135.08	-56.10	0.00	0.35	0.39	3	1.28	V
Asta 217 (84-83)	0.00	2463.01	SLU	CC1	-125.19	-49.08	0.00	-125.19	-55.92	0.00	0.35	0.40	3	1.14	V
Asta 220 (114-113)	0.00	2463.01	SLU	CC1	-89.79	-43.06	0.00	-89.79	-55.25	0.00	0.35	0.43	3	1.28	V
Asta 221 (119-118)	0.00	2463.01	SLU	CC1	-104.25	31.42	0.00	-104.25	55.52	0.00	0.35	0.42	3	1.77	V
Asta 222 (124-123)	0.00	2463.01	SLU	CC1	-78.55	-35.99	0.00	-78.55	-55.03	0.00	0.35	0.45	3	1.53	V
Asta 223 (129-128)	0.00	2463.01	SLU	CC1	-110.77	14.70	0.00	-110.77	56.62	0.00	0.35	0.42	3	3.85	V
Asta 224 (134-133)	0.00	1809.56	SLU	CC2	-121.02	-3.35	0.00	-121.02	-45.60	0.00	0.35	0.47	3	13.60	V
Asta 225 (139-138)	0.00	1357.17	SLU	CC2	-125.01	3.93	0.00	-125.01	37.69	0.00	0.35	0.54	3	9.58	V
Asta 226 (144-143)	0.00	2463.01	SLU	CC1	-75.46	-20.17	0.00	-75.46	-54.97	0.00	0.35	0.45	3	2.73	V
Asta 228 (154-153)	0.00	2261.95	SLU	CC1	-114.89	-17.45	0.00	-114.89	-52.60	0.00	0.35	0.42	3	3.02	V

1.2.1.5 Flessione composta retta RINGROSSI IN C.A. in direzione 3 SLV

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura
 S : Valore del coefficiente di sicurezza minimo della sezione;
 Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Pilastro	Pos. [cm]	As [mm²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	Nrd [kN]	Mrd3 [kNm]	Mrd2 [kNm]					
Asta 99 (22-21)	0.00	1809.56	SLV	CC2	-249.01	-58.15	0.00	-249.01	-59.41	0.00	0.35	0.43	3	1.02	V
Asta 102 (37-36)	0.00	2488.14	SLV	CC2	-289.28	-48.01	0.00	-289.28	-81.02	0.00	0.35	0.39	3	1.69	V
Asta 105 (52-51)	180.00	1583.36	SLV	CC1	-328.27	46.55	0.00	-328.27	57.72	0.00	0.35	0.38	3	1.24	V
Asta 110 (82-81)	180.00	1809.56	SLV	CC1	-326.27	64.20	0.00	-326.27	64.56	0.00	0.35	0.38	3	1.01	V
Asta 115 (112-111)	0.00	2488.14	SLV	CC1	-187.69	-54.91	0.00	-187.69	-78.30	0.00	0.35	0.48	3	1.43	V
Asta 116 (117-116)	180.00	2714.34	SLV	CC8	-190.49	-83.49	0.00	-190.49	-85.26	0.00	0.35	0.48	3	1.02	V
Asta 117 (122-121)	200.00	2488.14	SLV	CC1	-173.84	73.01	0.00	-173.84	77.89	0.00	0.35	0.49	3	1.07	V
Asta 118 (127-126)	0.00	1583.36	SLV	CC8	-246.32	54.26	0.00	-246.32	59.29	0.00	0.35	0.49	3	1.09	V
Asta 119 (132-131)	180.00	1809.56	SLV	CC1	-134.29	61.48	0.00	-134.29	62.37	0.00	0.35	0.64	3	1.01	V
Asta 120 (137-136)	0.00	1357.17	SLV	CC8	-232.52	37.89	0.00	-232.52	52.02	0.00	0.35	0.50	3	1.37	V
Asta 121 (142-141)	180.00	3386.64	SLV	CC1	-251.28	52.35	0.00	-251.28	99.12	0.00	0.35	0.38	3	1.89	V
Asta 123 (152-151)	200.00	2261.95	SLV	CC1	-140.25	64.23	0.00	-140.25	70.02	0.00	0.35	0.53	3	1.09	V
Asta 125 (222-221)	0.00	3386.64	SLV	CC2	-116.98	-94.47	0.00	-116.98	-95.89	0.00	0.35	0.48	3	1.02	V
Asta 126 (227-226)	0.00	2488.14	SLV	CC2	-196.32	-78.52	0.00	-196.32	-78.54	0.00	0.35	0.47	3	1.00	V
Asta 127 (232-231)	0.00	2261.95	SLV	CC2	-193.14	-65.67	0.00	-193.14	-71.58	0.00	0.35	0.48	3	1.09	V
Asta 128 (237-236)	0.00	2035.75	SLV	CC1	-193.32	-61.83	0.00	-193.32	-64.71	0.00	0.35	0.48	3	1.05	V
Asta 129 (242-241)	0.00	2035.75	SLV	CC1	-192.64	-58.57	0.00	-192.64	-64.69	0.00	0.35	0.48	3	1.10	V
Asta 145 (23-22)	188.00	2035.75	SLV	CC2	-78.82	40.79	0.00	-78.82	50.02	0.00	0.35	0.52	3	1.23	V
Asta 148 (38-37)	188.00	2463.01	SLV	CC2	-108.43	37.57	0.00	-108.43	56.57	0.00	0.35	0.43	3	1.51	V
Asta 151 (53-52)	153.00	1809.56	SLV	CC1	-151.05	34.52	0.00	-151.05	43.41	0.00	0.35	0.40	3	1.26	V
Asta 156 (83-82)	153.00	1130.97	SLV	CC1	-166.50	33.16	0.00	-166.50	36.63	0.00	0.35	0.52	3	1.10	V
Asta 161 (113-112)	153.00	2463.01	SLV	CC1	-107.08	37.14	0.00	-107.08	56.55	0.00	0.35	0.43	3	1.52	V
Asta 162 (118-117)	188.00	2035.75	SLV	CC8	-58.51	-37.86	0.00	-58.51	-46.87	0.00	0.35	0.50	3	1.24	V
Asta 163 (123-122)	188.00	1809.56	SLV	CC1	-26.88	37.61	0.00	-26.88	40.60	0.00	0.35	0.54	3	1.08	V
Asta 164 (128-127)	188.00	1357.17	SLV	CC8	-82.21	-30.66	0.00	-82.21	-34.10	0.00	0.35	0.52	3	1.11	V
Asta 165 (133-132)	188.00	1130.97	SLV	CC1	-73.28	29.79	0.00	-73.28	30.42	0.00	0.35	0.62	3	1.02	V
Asta 166 (138-137)	188.00	904.78	SLV	CC8	-100.44	-21.41	0.00	-100.44	-28.66	0.00	0.35	0.67	3	1.34	V
Asta 167 (143-142)	153.00	1583.36	SLV	CC1	-90.75	29.06	0.00	-90.75	37.10	0.00	0.35	0.45	3	1.28	V
Asta 169 (153-152)	188.00	1357.17	SLV	CC1	-74.48	31.20	0.00	-74.48	33.94	0.00	0.35	0.53	3	1.09	V
Asta 208 (24-23)	0.00	2463.01	SLV	CC2	-74.63	-53.89	0.00	-74.63	-54.95	0.00	0.35	0.45	3	1.01	V
Asta 211 (39-38)	0.00	2463.01	SLV	CC2	-104.19	-54.17	0.00	-104.19	-55.52	0.00	0.35	0.42	3	1.02	V
Asta 214 (54-53)	0.00	2463.01	SLV	CC1	-106.09	-54.52	0.00	-106.09	-55.56	0.00	0.35	0.42	3	1.01	V
Asta 217 (84-83)	0.00	2463.01	SLV	CC1	-99.96	-52.19	0.00	-99.96	-55.44	0.00	0.35	0.42	3	1.06	V
Asta 220 (114-113)	0.00	2463.01	SLV	CC1	-74.76	-54.60	0.00	-74.76	-54.96	0.00	0.35	0.45	3	1.01	V
Asta 221 (119-118)	0.00	2463.01	SLV	CC8	-54.36	54.01	0.00	-54.36	54.47	0.00	0.35	0.47	3	1.01	V
Asta 222 (124-123)	0.00	2463.01	SLV	CC1	-22.62	-53.50	0.00	-22.62	-53.53	0.00	0.35	0.49	3	1.00	V
Asta 223 (129-128)	0.00	2463.01	SLV	CC8	-78.00	39.34	0.00	-78.00	55.98	0.00	0.35	0.46	3	1.42	V
Asta 224 (134-133)	0.00	1809.56	SLV	CC1	-69.18	-41.66	0.00	-69.18	-44.47	0.00	0.35	0.54	3	1.07	V
Asta 225 (139-138)	0.00	1357.17	SLV	CC8	-96.15	32.85	0.00	-96.15	36.57	0.00	0.35	0.58	3	1.11	V
Asta 226 (144-143)	0.00	2463.01	SLV	CC1	-65.41	-41.33	0.00	-65.41	-54.78	0.00	0.35	0.46	3	1.33	V
Asta 228 (154-153)	0.00	2261.95	SLV	CC1	-70.19	-47.64	0.00	-70.19	-51.66	0.00	0.35	0.47	3	1.08	V

1.2.1.6 Flessione composta retta RINGROSSI IN C.A. in direzione 3 SLD

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
 Pos. : Posizione misurata lungo l'asse dell'elemento;
 As : Valore dell'area totale di armature longitudinali;
 SL : Stato limite della combinazione più gravosa;
 CdC : Combinazione di carico più gravosa;
 Azioni Sollecitanti
 Nsd : Sforzo normale sollecitante;
 MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;
 Azioni Resistenti
 NRd : Sforzo normale resistente;
 MRd3 : Valore del momento resistente attorno all'asse 3 locale;
 MRd2 : Valore del momento resistente attorno all'asse 2 locale;
 ecls : Deformazione massima del calcestruzzo compresso
 eacc : Deformazione massima dell'armatura tesa
 C : Campo di rottura
 S : Valore del coefficiente di sicurezza minimo della sezione;
 Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Pilastro	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	Nrd [kN]	Mrd3 [kNm]	Mrd2 [kNm]					
Asta 99 (22-21)	0.00	1809.56	SLD	CC2	-263.29	-62.37	0.00	-263.29	-84.32	0.00	0.17	0.21	2	1.35	V
Asta 102 (37-36)	0.00	2488.14	SLD	CC4	-278.84	-52.40	0.00	-278.84	-116.90	0.00	0.19	0.21	2	2.23	V
Asta 105 (52-51)	0.00	1583.36	SLD	CC3	-305.02	-51.06	0.00	-305.02	-82.97	0.00	0.18	0.21	2	1.63	V
Asta 110 (82-81)	180.00	1809.56	SLD	CC3	-317.34	69.68	0.00	-317.34	94.36	0.00	0.19	0.21	2	1.35	V
Asta 115 (112-111)	0.00	2488.14	SLD	CC1	-189.69	-62.44	0.00	-189.69	-110.12	0.00	0.17	0.21	2	1.76	V
Asta 116 (117-116)	180.00	2714.34	SLD	CC8	-206.42	-86.35	0.00	-206.42	-121.95	0.00	0.18	0.21	2	1.41	V
Asta 117 (122-121)	0.00	2488.14	SLD	CC1	-168.54	-79.19	0.00	-168.54	-108.46	0.00	0.17	0.21	2	1.37	V
Asta 118 (127-126)	0.00	1583.36	SLD	CC8	-253.60	62.65	0.00	-253.60	85.02	0.00	0.16	0.21	2	1.36	V
Asta 119 (132-131)	0.00	1809.56	SLD	CC1	-124.27	-70.04	0.00	-124.27	-84.72	0.00	0.14	0.21	2	1.21	V
Asta 120 (137-136)	0.00	1357.17	SLD	CC1	-178.10	-43.00	0.00	-178.10	-68.24	0.00	0.14	0.21	2	1.59	V
Asta 121 (142-141)	0.00	3386.64	SLD	CC1	-256.87	-54.82	0.00	-256.87	-143.53	0.00	0.20	0.21	3	2.62	V
Asta 123 (152-151)	0.00	2261.95	SLD	CC1	-138.44	-69.77	0.00	-138.44	-95.59	0.00	0.16	0.21	2	1.37	V
Asta 125 (222-221)	0.00	3386.64	SLD	CC2	-116.00	-112.62	0.00	-116.00	-133.24	0.00	0.18	0.21	2	1.18	V
Asta 126 (227-226)	0.00	2488.14	SLD	CC2	-185.53	-94.17	0.00	-185.52	-109.80	0.00	0.17	0.21	2	1.17	V
Asta 127 (232-231)	0.00	2261.95	SLD	CC2	-187.87	-80.50	0.00	-187.87	-99.49	0.00	0.17	0.21	2	1.24	V
Asta 128 (237-236)	0.00	2035.75	SLD	CC3	-206.92	-74.76	0.00	-206.92	-90.51	0.00	0.17	0.21	2	1.21	V
Asta 129 (242-241)	0.00	2035.75	SLD	CC6	-175.73	70.90	0.00	-175.73	88.09	0.00	0.16	0.21	2	1.24	V
Asta 145 (23-22)	188.00	2035.75	SLD	CC2	-80.99	44.64	0.00	-80.99	70.70	0.00	0.18	0.21	2	1.58	V
Asta 148 (38-37)	188.00	2463.01	SLD	CC2	-111.10	40.84	0.00	-111.10	81.50	0.00	0.20	0.21	2	2.00	V
Asta 151 (53-52)	153.00	1809.56	SLD	CC3	-132.46	36.76	0.00	-132.46	61.17	0.00	0.19	0.21	2	1.66	V
Asta 156 (83-82)	153.00	1130.97	SLD	CC3	-167.50	35.59	0.00	-167.50	53.19	0.00	0.17	0.21	2	1.49	V
Asta 161 (113-112)	153.00	2463.01	SLD	CC1	-104.73	40.65	0.00	-104.73	81.12	0.00	0.20	0.21	2	2.00	V
Asta 162 (118-117)	188.00	2035.75	SLD	CC8	-70.96	-42.72	0.00	-70.96	-65.52	0.00	0.17	0.21	2	1.53	V
Asta 163 (123-122)	188.00	1809.56	SLD	CC1	-35.26	40.24	0.00	-35.26	55.10	0.00	0.16	0.21	2	1.37	V
Asta 164 (128-127)	188.00	1357.17	SLD	CC8	-85.27	-35.45	0.00	-85.27	-46.42	0.00	0.15	0.21	2	1.31	V
Asta 165 (133-132)	188.00	1130.97	SLD	CC1	-71.53	35.00	0.00	-71.53	41.60	0.00	0.14	0.21	2	1.19	V
Asta 166 (138-137)	188.00	904.78	SLD	CC8	-102.28	-24.45	0.00	-102.28	-40.10	0.00	0.14	0.21	2	1.64	V
Asta 167 (143-142)	153.00	1583.36	SLD	CC1	-94.76	30.80	0.00	-94.76	50.78	0.00	0.17	0.21	2	1.65	V
Asta 169 (153-152)	188.00	1357.17	SLD	CC1	-75.20	34.14	0.00	-75.20	45.75	0.00	0.15	0.21	2	1.34	V
Asta 208 (24-23)	0.00	2463.01	SLD	CC2	-76.55	-66.90	0.00	-76.55	-78.31	0.00	0.19	0.21	2	1.17	V
Asta 211 (39-38)	0.00	2463.01	SLD	CC4	-99.30	-64.53	0.00	-99.30	-79.67	0.00	0.20	0.21	2	1.23	V
Asta 214 (54-53)	0.00	2463.01	SLD	CC3	-105.53	-60.64	0.00	-105.53	-79.79	0.00	0.20	0.21	3	1.32	V
Asta 217 (84-83)	0.00	2463.01	SLD	CC3	-95.06	-64.41	0.00	-95.06	-79.42	0.00	0.20	0.21	2	1.23	V
Asta 220 (114-113)	0.00	2463.01	SLD	CC1	-75.62	-62.90	0.00	-75.62	-78.25	0.00	0.19	0.21	2	1.24	V
Asta 221 (119-118)	0.00	2463.01	SLD	CC8	-66.79	63.25	0.00	-66.79	77.72	0.00	0.19	0.21	2	1.23	V
Asta 222 (124-123)	0.00	2463.01	SLD	CC1	-31.14	-57.70	0.00	-31.14	-75.52	0.00	0.18	0.21	2	1.31	V
Asta 223 (129-128)	0.00	2463.01	SLD	CC8	-80.93	43.75	0.00	-80.93	79.67	0.00	0.19	0.21	2	1.82	V
Asta 224 (134-133)	0.00	1809.56	SLD	CC1	-67.51	-46.86	0.00	-67.51	-61.60	0.00	0.17	0.21	2	1.31	V
Asta 225 (139-138)	0.00	1357.17	SLD	CC8	-97.89	35.90	0.00	-97.89	51.73	0.00	0.16	0.21	2	1.44	V
Asta 226 (144-143)	0.00	2463.01	SLD	CC1	-66.85	-42.63	0.00	-66.85	-77.72	0.00	0.19	0.21	2	1.82	V
Asta 228 (154-153)	0.00	2261.95	SLD	CC1	-70.93	-50.12	0.00	-70.93	-72.71	0.00	0.18	0.21	2	1.45	V

1.2.1.7 Taglio SLU

- Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
- Blocco : Tratto nel quale le staffe vengono mantenute costanti
- 1 : Estremo iniziale;
- 2 : Mediano;
- 3 : Estremo finale;
- Ltr : Lunghezza del blocco;
- Tagli Sollecitanti
- VSd1-3 : Valore del Taglio 1-3 sollecitante di calcolo
(calcolato per soddisfare $V_{Sd} = V_{Ed}$; $V_{Ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);
- VSd1-2 : Valore del Taglio 1-2 sollecitante di calcolo
(calcolato per soddisfare $V_{Sd} = V_{Ed}$; $V_{Ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);
- $\gamma_{Rd} = 1.1$;
- cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;
- Tagli Resistenti
- VRd1-3 : Valore del Taglio 1-3 resistente di calcolo;
- VRd1-2 : Valore del Taglio 1-2 resistente di calcolo;
- \emptyset : Diametro della staffa;
- Nbr 2 : Numero di bracci di cui è composta la staffa in direzione 2 locale;
- Nbr 3 : Numero di bracci di cui è composta la staffa in direzione 3 locale;
- Passo : Interasse tra le staffe;
- S1-2 : Coefficiente di sicurezza relativo a VSd1-2
- S1-3 : Coefficiente di sicurezza relativo a VSd1-3
- Esito : V = Verificato; NV = Non Verificato;

Pilastro	Blocco	Ltr [cm]	\emptyset [mm]	Nbr 2	Nbr 3	Passo [mm]	Vsd1-2 [kN]	Vsd1-3 [kN]	cot(θ)	Vrd1-2 [kN]	Vrd1-3 [kN]	S1-2	S1-3	Esito
Asta 99 (22-21)	1	45.00	8.0	2	2	90.0	18.22	34.78	2.50	224.46	224.46	12.32	6.45	V
Asta 99 (22-21)	2	90.00	8.0	2	2	140.0	18.22	34.78	2.50	173.86	173.86	9.54	5.00	V
Asta 99 (22-21)	3	45.00	8.0	2	2	90.0	18.22	34.78	2.50	225.12	225.12	12.35	6.47	V
Asta 102 (37-36)	1	45.00	8.0	2	2	90.0	26.44	34.69	2.50	226.70	226.70	8.57	6.53	V
Asta 102 (37-36)	2	90.00	8.0	2	2	140.0	26.44	34.69	2.50	173.86	173.86	6.58	5.01	V
Asta 102 (37-36)	3	45.00	8.0	2	2	90.0	26.44	34.69	2.50	226.70	226.70	8.57	6.53	V
Asta 105 (52-51)	1	45.00	8.0	2	2	90.0	30.52	14.52	2.50	226.70	226.70	7.43	15.61	V
Asta 105 (52-51)	2	90.00	8.0	2	2	140.0	30.52	14.52	2.50	173.86	173.86	5.70	11.97	V
Asta 105 (52-51)	3	45.00	8.0	2	2	90.0	30.52	14.52	2.50	226.70	226.70	7.43	15.61	V
Asta 110 (82-81)	1	45.00	8.0	2	2	90.0	43.01	5.18	2.50	226.70	226.70	5.27	43.79	V
Asta 110 (82-81)	2	90.00	8.0	2	2	140.0	43.01	5.18	2.50	173.86	173.86	4.04	33.59	V
Asta 110 (82-81)	3	45.00	8.0	2	2	90.0	43.01	5.18	2.50	226.70	226.70	5.27	43.79	V
Asta 115 (112-111)	1	45.00	8.0	2	2	90.0	33.83	37.28	2.50	218.19	218.19	6.45	5.85	V
Asta 115 (112-111)	2	90.00	8.0	2	2	140.0	33.83	37.28	2.50	173.86	173.86	5.14	4.66	V
Asta 115 (112-111)	3	45.00	8.0	2	2	90.0	33.83	37.28	2.50	218.84	218.84	6.47	5.87	V
Asta 116 (117-116)	1	45.00	8.0	2	2	90.0	54.39	22.74	2.50	226.70	226.70	4.17	9.97	V
Asta 116 (117-116)	2	90.00	8.0	2	2	140.0	54.39	22.74	2.50	173.86	173.86	3.20	7.65	V
Asta 116 (117-116)	3	45.00	8.0	2	2	90.0	54.39	22.74	2.50	226.70	226.70	4.17	9.97	V
Asta 117 (122-121)	1	45.00	8.0	2	2	90.0	50.32	13.45	2.50	226.70	226.70	4.51	16.86	V
Asta 117 (122-121)	2	110.00	8.0	2	2	140.0	50.32	13.45	2.50	173.86	173.86	3.46	12.93	V
Asta 117 (122-121)	3	45.00	8.0	2	2	90.0	50.32	13.45	2.50	226.70	226.70	4.51	16.86	V
Asta 118 (127-126)	1	45.00	8.0	2	2	90.0	20.25	18.98	2.50	226.70	226.70	11.19	11.94	V
Asta 118 (127-126)	2	90.00	8.0	2	2	140.0	20.25	18.98	2.50	173.86	173.86	8.58	9.16	V
Asta 118 (127-126)	3	45.00	8.0	2	2	90.0	20.25	18.98	2.50	226.70	226.70	11.19	11.94	V
Asta 119 (132-131)	1	45.00	8.0	2	2	90.0	14.15	19.84	2.50	217.37	217.37	15.36	10.96	V
Asta 119 (132-131)	2	90.00	8.0	2	2	140.0	14.15	19.84	2.50	173.86	173.86	12.29	8.76	V
Asta 119 (132-131)	3	45.00	8.0	2	2	90.0	14.15	19.84	2.50	218.02	218.02	15.41	10.99	V
Asta 120 (137-136)	1	45.00	8.0	2	2	90.0	1.69	5.13	2.50	226.70	226.70	100.00	44.19	V
Asta 120 (137-136)	2	110.00	8.0	2	2	140.0	1.69	5.13	2.50	173.86	173.86	100.00	33.89	V
Asta 120 (137-136)	3	45.00	8.0	2	2	90.0	1.69	5.13	2.50	226.70	226.70	100.00	44.19	V
Asta 121 (142-141)	1	45.00	8.0	2	2	110.0	22.15	65.56	2.50	221.28	221.28	9.99	3.37	V
Asta 121 (142-141)	2	90.00	8.0	2	2	120.0	22.15	65.56	2.50	202.84	202.84	9.16	3.09	V
Asta 121 (142-141)	3	45.00	8.0	2	2	110.0	22.15	65.56	2.50	221.28	221.28	9.99	3.37	V
Asta 123 (152-151)	1	45.00	8.0	2	2	90.0	23.42	5.15	2.50	216.73	216.73	9.26	42.08	V
Asta 123 (152-151)	2	110.00	8.0	2	2	140.0	23.42	5.15	2.50	173.86	173.86	7.42	33.76	V

Asta 123 (152-151)	3	45.00	8.0	2	2	90.0	23.42	5.15	2.50	217.44	217.44	9.29	42.22	V
Asta 125 (222-221)	1	45.00	8.0	2	2	110.0	3.39	1.19	2.50	212.95	212.95	62.84	100.00	V
Asta 125 (222-221)	2	110.00	8.0	2	2	150.0	3.39	1.19	2.50	162.27	162.27	47.88	100.00	V
Asta 125 (222-221)	3	45.00	8.0	2	2	110.0	3.39	1.19	2.50	213.70	213.70	63.06	100.00	V
Asta 126 (227-226)	1	45.00	8.0	2	2	90.0	4.53	0.86	2.50	226.70	226.70	50.07	100.00	V
Asta 126 (227-226)	2	110.00	8.0	2	2	140.0	4.53	0.86	2.50	173.86	173.86	38.40	100.00	V
Asta 126 (227-226)	3	45.00	8.0	2	2	90.0	4.53	0.86	2.50	226.70	226.70	50.07	100.00	V
Asta 127 (232-231)	1	45.00	8.0	2	2	90.0	6.07	0.16	2.50	226.70	226.70	37.33	100.00	V
Asta 127 (232-231)	2	110.00	8.0	2	2	140.0	6.07	0.16	2.50	173.86	173.86	28.63	100.00	V
Asta 127 (232-231)	3	45.00	8.0	2	2	90.0	6.07	0.16	2.50	226.70	226.70	37.33	100.00	V
Asta 128 (237-236)	1	45.00	8.0	2	2	90.0	5.34	0.17	2.50	226.70	226.70	42.41	100.00	V
Asta 128 (237-236)	2	110.00	8.0	2	2	140.0	5.34	0.17	2.50	173.86	173.86	32.53	100.00	V
Asta 128 (237-236)	3	45.00	8.0	2	2	90.0	5.34	0.17	2.50	226.70	226.70	42.41	100.00	V
Asta 129 (242-241)	1	45.00	8.0	2	2	90.0	0.40	0.63	2.50	226.70	226.70	100.00	100.00	V
Asta 129 (242-241)	2	110.00	8.0	2	2	140.0	0.40	0.63	2.50	173.86	173.86	100.00	100.00	V
Asta 129 (242-241)	3	45.00	8.0	2	2	90.0	0.40	0.63	2.50	226.70	226.70	100.00	100.00	V
Asta 145 (23-22)	1	45.00	8.0	2	2	90.0	20.45	20.13	2.50	136.56	136.56	6.68	6.78	V
Asta 145 (23-22)	2	98.00	8.0	2	2	140.0	20.45	20.13	2.50	136.77	136.77	6.69	6.80	V
Asta 145 (23-22)	3	45.00	8.0	2	2	90.0	20.45	20.13	2.50	136.87	136.87	6.69	6.80	V
Asta 148 (38-37)	1	45.00	8.0	2	2	110.0	29.22	18.23	2.50	142.22	142.22	4.87	7.80	V
Asta 148 (38-37)	2	98.00	8.0	2	2	160.0	29.22	18.23	2.50	124.47	124.47	4.26	6.83	V
Asta 148 (38-37)	3	45.00	8.0	2	2	110.0	29.22	18.23	2.50	142.55	142.55	4.88	7.82	V
Asta 151 (53-52)	1	45.00	8.0	2	2	90.0	27.80	25.03	2.50	150.64	150.64	5.42	6.02	V
Asta 151 (53-52)	2	63.00	8.0	2	2	140.0	27.80	25.03	2.50	142.25	142.25	5.12	5.68	V
Asta 151 (53-52)	3	45.00	8.0	2	2	90.0	27.80	25.03	2.50	150.90	150.90	5.43	6.03	V
Asta 156 (83-82)	1	45.00	8.0	2	2	90.0	22.63	0.47	2.50	154.57	154.57	6.83	100.00	V
Asta 156 (83-82)	2	63.00	8.0	2	2	140.0	22.63	0.47	2.50	142.25	142.25	6.29	100.00	V
Asta 156 (83-82)	3	45.00	8.0	2	2	90.0	22.63	0.47	2.50	154.57	154.57	6.83	100.00	V
Asta 161 (113-112)	1	45.00	8.0	2	2	110.0	26.72	41.73	2.50	141.03	141.03	5.28	3.38	V
Asta 161 (113-112)	2	63.00	8.0	2	2	160.0	26.72	41.73	2.50	124.47	124.47	4.66	2.98	V
Asta 161 (113-112)	3	45.00	8.0	2	2	110.0	26.72	41.73	2.50	141.29	141.29	5.29	3.39	V
Asta 162 (118-117)	1	45.00	8.0	2	2	90.0	21.60	23.34	2.50	138.78	138.78	6.42	5.95	V
Asta 162 (118-117)	2	98.00	8.0	2	2	140.0	21.60	23.34	2.50	139.00	139.00	6.43	5.95	V
Asta 162 (118-117)	3	45.00	8.0	2	2	90.0	21.60	23.34	2.50	139.11	139.11	6.44	5.96	V
Asta 163 (123-122)	1	45.00	8.0	2	2	90.0	25.01	7.56	2.50	135.19	135.19	5.40	17.89	V
Asta 163 (123-122)	2	98.00	8.0	2	2	140.0	25.01	7.56	2.50	135.42	135.42	5.41	17.92	V
Asta 163 (123-122)	3	45.00	8.0	2	2	90.0	25.01	7.56	2.50	135.53	135.53	5.42	17.93	V
Asta 164 (128-127)	1	45.00	8.0	2	2	90.0	10.13	21.86	2.50	139.55	139.55	13.77	6.39	V
Asta 164 (128-127)	2	98.00	8.0	2	2	140.0	10.13	21.86	2.50	139.77	139.77	13.79	6.40	V
Asta 164 (128-127)	3	45.00	8.0	2	2	90.0	10.13	21.86	2.50	139.87	139.87	13.80	6.40	V
Asta 165 (133-132)	1	45.00	8.0	2	2	90.0	3.53	10.28	2.50	142.64	142.64	40.45	13.88	V
Asta 165 (133-132)	2	98.00	8.0	2	2	140.0	3.53	10.28	2.50	142.25	142.25	40.34	13.84	V
Asta 165 (133-132)	3	45.00	8.0	2	2	90.0	3.53	10.28	2.50	142.97	142.97	40.54	13.91	V
Asta 166 (138-137)	1	45.00	8.0	2	2	90.0	1.80	3.14	2.50	142.21	142.21	79.01	45.22	V
Asta 166 (138-137)	2	98.00	8.0	2	2	140.0	1.80	3.14	2.50	142.25	142.25	79.03	45.23	V
Asta 166 (138-137)	3	45.00	8.0	2	2	90.0	1.80	3.14	2.50	142.55	142.55	79.20	45.33	V
Asta 167 (143-142)	1	45.00	8.0	2	2	90.0	13.87	35.35	2.50	139.34	139.34	10.05	3.94	V
Asta 167 (143-142)	2	63.00	8.0	2	2	140.0	13.87	35.35	2.50	139.50	139.50	10.06	3.95	V
Asta 167 (143-142)	3	45.00	8.0	2	2	90.0	13.87	35.35	2.50	139.61	139.61	10.06	3.95	V
Asta 169 (153-152)	1	45.00	8.0	2	2	90.0	11.75	2.30	2.50	140.14	140.14	11.92	60.99	V
Asta 169 (153-152)	2	98.00	8.0	2	2	140.0	11.75	2.30	2.50	140.37	140.37	11.94	61.09	V
Asta 169 (153-152)	3	45.00	8.0	2	2	90.0	11.75	2.30	2.50	140.48	140.48	11.95	61.14	V
Asta 208 (24-23)	-	87.00	10.0	2	2	70.0	20.45	20.13	2.50	136.46	136.46	6.67	6.78	V
Asta 211 (39-38)	-	87.00	10.0	2	2	60.0	29.22	18.23	2.50	142.12	142.12	4.86	7.79	V
Asta 214 (54-53)	-	87.00	10.0	2	2	60.0	34.82	45.21	2.50	142.79	142.79	4.10	3.16	V
Asta 217 (84-83)	-	87.00	10.0	2	2	60.0	49.76	6.72	2.50	141.41	141.41	2.84	21.04	V
Asta 220 (114-113)	-	87.00	10.0	2	2	70.0	34.28	57.08	2.50	136.47	136.47	3.98	2.39	V
Asta 221 (119-118)	-	87.00	10.0	2	2	60.0	21.60	23.34	2.50	138.68	138.68	6.42	5.94	V
Asta 222 (124-123)	-	87.00	10.0	2	2	60.0	25.01	7.56	2.50	135.08	135.08	5.40	17.88	V
Asta 223 (129-128)	-	87.00	8.0	2	2	50.0	10.13	21.86	2.50	139.45	139.45	13.76	6.38	V
Asta 224 (134-133)	-	87.00	8.0	2	2	80.0	3.53	10.28	2.50	142.54	142.54	40.42	13.87	V
Asta 225 (139-138)	-	87.00	8.0	2	2	90.0	1.80	3.14	2.50	142.10	142.10	78.95	45.19	V
Asta 226 (144-143)	-	87.00	10.0	2	2	70.0	9.83	44.15	2.50	134.47	134.47	13.67	3.05	V
Asta 228 (154-153)	-	87.00	10.0	2	2	70.0	11.75	2.30	2.50	140.03	140.03	11.91	60.94	V

1.2.1.8 Taglio SLV

- Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
- Blocco : Tratto nel quale le staffe vengono mantenute costanti
- 1 : Estremo iniziale;
- 2 : Mediano;
- 3 : Estremo finale;
- Ltr : Lunghezza del blocco;
- Tagli Sollecitanti
- VSd1-3 : Valore del Taglio 1-3 sollecitante di calcolo
(calcolato per soddisfare $V_{Sd} = V_{Ed}$; $V_{Ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);
- VSd1-2 : Valore del Taglio 1-2 sollecitante di calcolo
(calcolato per soddisfare $V_{Sd} = V_{Ed}$; $V_{Ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);
- $\gamma_{Rd} = 1.1$;
- cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;
- Tagli Resistenti
- VRd1-3 : Valore del Taglio 1-3 resistente di calcolo;
- VRd1-2 : Valore del Taglio 1-2 resistente di calcolo;
- \varnothing : Diametro della staffa;
- Nbr 2 : Numero di bracci di cui è composta la staffa in direzione 2 locale;
- Nbr 3 : Numero di bracci di cui è composta la staffa in direzione 3 locale;
- Passo : Interasse tra le staffe;
- S1-2 : Coefficiente di sicurezza relativo a VSd1-2
- S1-3 : Coefficiente di sicurezza relativo a VSd1-3
- Esito : V = Verificato; NV = Non Verificato;

Pilastro	Blocco	Ltr [cm]	\varnothing [mm]	Nbr 2	Nbr 3	Passo [mm]	Vsd1-2 [kN]	Vsd1-3 [kN]	cot(θ)	Vrd1-2 [kN]	Vrd1-3 [kN]	S1-2	S1-3	Esito
Asta 99 (22-21)	1	45.00	8.0	2	2	90.0	96.96	114.50	2.50	216.95	216.95	2.24	1.89	V
Asta 99 (22-21)	2	90.00	8.0	2	2	140.0	96.96	114.50	2.50	173.86	173.86	1.79	1.52	V
Asta 99 (22-21)	3	45.00	8.0	2	2	90.0	96.96	114.50	2.50	217.45	217.45	2.24	1.90	V
Asta 102 (37-36)	1	45.00	8.0	2	2	90.0	136.30	142.24	2.50	222.67	222.67	1.63	1.57	V
Asta 102 (37-36)	2	90.00	8.0	2	2	140.0	136.30	142.24	2.50	173.86	173.86	1.28	1.22	V
Asta 102 (37-36)	3	45.00	8.0	2	2	90.0	136.30	142.24	2.50	223.17	223.17	1.64	1.57	V
Asta 105 (52-51)	1	45.00	8.0	2	2	90.0	96.22	113.80	2.50	226.70	226.70	2.36	1.99	V
Asta 105 (52-51)	2	90.00	8.0	2	2	140.0	96.22	113.80	2.50	173.86	173.86	1.81	1.53	V
Asta 105 (52-51)	3	45.00	8.0	2	2	90.0	96.22	113.80	2.50	226.70	226.70	2.36	1.99	V
Asta 110 (82-81)	1	45.00	8.0	2	2	90.0	108.12	119.00	2.50	226.70	226.70	2.10	1.91	V
Asta 110 (82-81)	2	90.00	8.0	2	2	140.0	108.12	119.00	2.50	173.86	173.86	1.61	1.46	V
Asta 110 (82-81)	3	45.00	8.0	2	2	90.0	108.12	119.00	2.50	226.70	226.70	2.10	1.91	V
Asta 115 (112-111)	1	45.00	8.0	2	2	90.0	133.03	138.15	2.50	208.22	208.22	1.57	1.51	V
Asta 115 (112-111)	2	90.00	8.0	2	2	140.0	133.03	138.15	2.50	173.86	173.86	1.31	1.26	V
Asta 115 (112-111)	3	45.00	8.0	2	2	90.0	133.03	138.15	2.50	208.72	208.72	1.57	1.51	V
Asta 116 (117-116)	1	45.00	8.0	2	2	90.0	148.74	148.74	2.50	218.74	218.74	1.47	1.47	V
Asta 116 (117-116)	2	90.00	8.0	2	2	140.0	148.74	148.74	2.50	173.86	173.86	1.17	1.17	V
Asta 116 (117-116)	3	45.00	8.0	2	2	90.0	148.74	148.74	2.50	219.24	219.24	1.47	1.47	V
Asta 117 (122-121)	1	45.00	8.0	2	2	90.0	121.51	126.57	2.50	217.65	217.65	1.79	1.72	V
Asta 117 (122-121)	2	110.00	8.0	2	2	140.0	121.51	126.57	2.50	173.86	173.86	1.43	1.37	V
Asta 117 (122-121)	3	45.00	8.0	2	2	90.0	121.51	126.57	2.50	218.20	218.20	1.80	1.72	V
Asta 118 (127-126)	1	45.00	8.0	2	2	90.0	99.76	104.25	2.50	218.62	218.62	2.19	2.10	V
Asta 118 (127-126)	2	90.00	8.0	2	2	140.0	99.76	104.25	2.50	173.86	173.86	1.74	1.67	V
Asta 118 (127-126)	3	45.00	8.0	2	2	90.0	99.76	104.25	2.50	219.13	219.13	2.20	2.10	V
Asta 119 (132-131)	1	45.00	8.0	2	2	90.0	107.81	107.81	2.50	206.63	206.63	1.92	1.92	V
Asta 119 (132-131)	2	90.00	8.0	2	2	140.0	107.81	107.81	2.50	173.86	173.86	1.61	1.61	V
Asta 119 (132-131)	3	45.00	8.0	2	2	90.0	107.81	107.81	2.50	207.13	207.13	1.92	1.92	V
Asta 120 (137-136)	1	45.00	8.0	2	2	90.0	79.42	88.70	2.50	214.59	214.59	2.70	2.42	V
Asta 120 (137-136)	2	110.00	8.0	2	2	140.0	79.42	88.70	2.50	173.86	173.86	2.19	1.96	V
Asta 120 (137-136)	3	45.00	8.0	2	2	90.0	79.42	88.70	2.50	215.13	215.13	2.71	2.43	V
Asta 121 (142-141)	1	45.00	8.0	2	2	110.0	168.50	177.00	2.50	219.48	219.48	1.30	1.24	V
Asta 121 (142-141)	2	90.00	8.0	2	2	120.0	168.50	177.00	2.50	202.84	202.84	1.20	1.15	V
Asta 121 (142-141)	3	45.00	8.0	2	2	110.0	168.50	177.00	2.50	219.97	219.97	1.31	1.24	V
Asta 123 (152-151)	1	45.00	8.0	2	2	90.0	109.92	119.89	2.50	203.10	203.10	1.85	1.69	V
Asta 123 (152-151)	2	110.00	8.0	2	2	140.0	109.92	119.89	2.50	173.86	173.86	1.58	1.45	V

Asta 123 (152-151)	3	45.00	8.0	2	2	90.0	109.92	119.89	2.50	203.64	203.64	1.85	1.70	V
Asta 125 (222-221)	1	45.00	8.0	2	2	110.0	150.47	157.80	2.50	199.05	199.05	1.32	1.26	V
Asta 125 (222-221)	2	110.00	8.0	2	2	150.0	150.47	157.80	2.50	162.27	162.27	1.08	1.03	V
Asta 125 (222-221)	3	45.00	8.0	2	2	110.0	150.47	157.80	2.50	199.62	199.62	1.33	1.26	V
Asta 126 (227-226)	1	45.00	8.0	2	2	90.0	123.09	128.53	2.50	209.45	209.45	1.70	1.63	V
Asta 126 (227-226)	2	110.00	8.0	2	2	140.0	123.09	128.53	2.50	173.86	173.86	1.41	1.35	V
Asta 126 (227-226)	3	45.00	8.0	2	2	90.0	123.09	128.53	2.50	210.02	210.02	1.71	1.63	V
Asta 127 (232-231)	1	45.00	8.0	2	2	90.0	112.59	123.29	2.50	209.64	209.64	1.86	1.70	V
Asta 127 (232-231)	2	110.00	8.0	2	2	140.0	112.59	123.29	2.50	173.86	173.86	1.54	1.41	V
Asta 127 (232-231)	3	45.00	8.0	2	2	90.0	112.59	123.29	2.50	210.22	210.22	1.87	1.71	V
Asta 128 (237-236)	1	45.00	8.0	2	2	90.0	101.79	116.98	2.50	209.74	209.74	2.06	1.79	V
Asta 128 (237-236)	2	110.00	8.0	2	2	140.0	101.79	116.98	2.50	173.86	173.86	1.71	1.49	V
Asta 128 (237-236)	3	45.00	8.0	2	2	90.0	101.79	116.98	2.50	210.31	210.31	2.07	1.80	V
Asta 129 (242-241)	1	45.00	8.0	2	2	90.0	101.75	116.93	2.50	209.60	209.60	2.06	1.79	V
Asta 129 (242-241)	2	110.00	8.0	2	2	140.0	101.75	116.93	2.50	173.86	173.86	1.71	1.49	V
Asta 129 (242-241)	3	45.00	8.0	2	2	90.0	101.75	116.93	2.50	210.17	210.17	2.07	1.80	V
Asta 145 (23-22)	1	45.00	8.0	2	2	90.0	81.34	77.41	2.50	134.42	134.42	1.65	1.74	V
Asta 145 (23-22)	2	98.00	8.0	2	2	140.0	81.34	77.41	2.50	134.58	134.58	1.65	1.74	V
Asta 145 (23-22)	3	45.00	8.0	2	2	90.0	81.34	77.41	2.50	134.66	134.66	1.66	1.74	V
Asta 148 (38-37)	1	45.00	8.0	2	2	110.0	93.11	93.11	2.50	138.55	138.55	1.49	1.49	V
Asta 148 (38-37)	2	98.00	8.0	2	2	160.0	93.11	93.11	2.50	124.47	124.47	1.34	1.34	V
Asta 148 (38-37)	3	45.00	8.0	2	2	110.0	93.11	93.11	2.50	138.80	138.80	1.49	1.49	V
Asta 151 (53-52)	1	45.00	8.0	2	2	90.0	87.43	96.82	2.50	144.67	144.67	1.65	1.49	V
Asta 151 (53-52)	2	63.00	8.0	2	2	140.0	87.43	96.82	2.50	142.25	142.25	1.63	1.47	V
Asta 151 (53-52)	3	45.00	8.0	2	2	90.0	87.43	96.82	2.50	144.87	144.87	1.66	1.50	V
Asta 156 (83-82)	1	45.00	8.0	2	2	90.0	72.33	66.51	2.50	146.70	146.70	2.03	2.21	V
Asta 156 (83-82)	2	63.00	8.0	2	2	140.0	72.33	66.51	2.50	142.25	142.25	1.97	2.14	V
Asta 156 (83-82)	3	45.00	8.0	2	2	90.0	72.33	66.51	2.50	146.91	146.91	2.03	2.21	V
Asta 161 (113-112)	1	45.00	8.0	2	2	110.0	114.31	114.31	2.50	138.60	138.60	1.21	1.21	V
Asta 161 (113-112)	2	63.00	8.0	2	2	150.0	114.31	114.31	2.50	132.77	132.77	1.16	1.16	V
Asta 161 (113-112)	3	45.00	8.0	2	2	110.0	114.31	114.31	2.50	138.80	138.80	1.21	1.21	V
Asta 162 (118-117)	1	45.00	8.0	2	2	90.0	78.29	82.61	2.50	137.70	137.70	1.76	1.67	V
Asta 162 (118-117)	2	98.00	8.0	2	2	140.0	78.29	82.61	2.50	137.88	137.88	1.76	1.67	V
Asta 162 (118-117)	3	45.00	8.0	2	2	90.0	78.29	82.61	2.50	137.95	137.95	1.76	1.67	V
Asta 163 (123-122)	1	45.00	8.0	2	2	90.0	67.80	73.84	2.50	136.75	136.75	2.02	1.85	V
Asta 163 (123-122)	2	98.00	8.0	2	2	140.0	67.80	73.84	2.50	136.93	136.93	2.02	1.85	V
Asta 163 (123-122)	3	45.00	8.0	2	2	90.0	67.80	73.84	2.50	137.01	137.01	2.02	1.86	V
Asta 164 (128-127)	1	45.00	8.0	2	2	90.0	56.24	62.22	2.50	135.22	135.22	2.40	2.17	V
Asta 164 (128-127)	2	98.00	8.0	2	2	140.0	56.24	62.22	2.50	135.39	135.39	2.41	2.18	V
Asta 164 (128-127)	3	45.00	8.0	2	2	90.0	56.24	62.22	2.50	135.47	135.47	2.41	2.18	V
Asta 165 (133-132)	1	45.00	8.0	2	2	90.0	50.45	53.77	2.50	136.47	136.47	2.70	2.54	V
Asta 165 (133-132)	2	98.00	8.0	2	2	140.0	50.45	53.77	2.50	136.64	136.64	2.71	2.54	V
Asta 165 (133-132)	3	45.00	8.0	2	2	90.0	50.45	53.77	2.50	136.72	136.72	2.71	2.54	V
Asta 166 (138-137)	1	45.00	8.0	2	2	90.0	46.17	46.17	2.50	137.42	137.42	2.98	2.98	V
Asta 166 (138-137)	2	98.00	8.0	2	2	140.0	46.17	46.17	2.50	137.60	137.60	2.98	2.98	V
Asta 166 (138-137)	3	45.00	8.0	2	2	90.0	46.17	46.17	2.50	137.68	137.68	2.98	2.98	V
Asta 167 (143-142)	1	45.00	8.0	2	2	90.0	73.17	84.44	2.50	138.34	138.34	1.89	1.64	V
Asta 167 (143-142)	2	63.00	8.0	2	2	140.0	73.17	84.44	2.50	138.46	138.46	1.89	1.64	V
Asta 167 (143-142)	3	45.00	8.0	2	2	90.0	73.17	84.44	2.50	138.55	138.55	1.89	1.64	V
Asta 169 (153-152)	1	45.00	8.0	2	2	90.0	56.69	63.16	2.50	134.77	134.77	2.38	2.13	V
Asta 169 (153-152)	2	98.00	8.0	2	2	140.0	56.69	63.16	2.50	134.95	134.95	2.38	2.14	V
Asta 169 (153-152)	3	45.00	8.0	2	2	90.0	56.69	63.16	2.50	135.04	135.04	2.38	2.14	V
Asta 208 (24-23)	-	87.00	10.0	2	2	70.0	193.89	193.89	1.10	193.90	193.90	1.00	1.00	V
Asta 211 (39-38)	-	87.00	10.0	2	2	60.0	197.46	197.46	1.15	198.82	198.82	1.01	1.01	V
Asta 214 (54-53)	-	87.00	10.0	2	2	60.0	197.62	197.62	1.15	199.14	199.14	1.01	1.01	V
Asta 217 (84-83)	-	87.00	10.0	2	2	60.0	196.91	196.91	1.15	197.91	197.91	1.01	1.01	V
Asta 220 (114-113)	-	87.00	10.0	2	2	70.0	195.33	195.33	1.10	195.86	195.86	0.99	1.02	V
Asta 221 (119-118)	-	87.00	10.0	2	2	60.0	196.85	196.85	1.15	197.62	197.62	1.00	1.00	V
Asta 222 (124-123)	-	87.00	10.0	2	2	60.0	193.48	193.48	1.15	196.24	196.24	1.01	1.01	V
Asta 223 (129-128)	-	87.00	8.0	2	2	50.0	183.05	183.05	1.15	183.22	183.22	0.91	1.00	V
Asta 224 (134-133)	-	87.00	8.0	2	2	80.0	160.17	160.17	1.90	163.02	163.02	1.02	1.02	V
Asta 225 (139-138)	-	87.00	8.0	2	2	90.0	129.60	129.60	2.20	150.03	150.03	1.16	1.16	V
Asta 226 (144-143)	-	87.00	10.0	2	2	70.0	194.31	194.31	1.15	194.98	194.98	0.98	1.01	V
Asta 228 (154-153)	-	87.00	10.0	2	2	70.0	186.71	186.71	1.30	188.77	188.77	1.01	1.01	V

1.2.1.9 Taglio SLD

- Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
- Blocco : Tratto nel quale le staffe vengono mantenute costanti
- 1 : Estremo iniziale;
- 2 : Mediano;
- 3 : Estremo finale;
- Ltr : Lunghezza del blocco;
- Tagli Sollecitanti
- VSd1-3 : Valore del Taglio 1-3 sollecitante di calcolo
(calcolato per soddisfare $V_{Sd} = V_{Ed}$; $V_{Ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);
- VSd1-2 : Valore del Taglio 1-2 sollecitante di calcolo
(calcolato per soddisfare $V_{Sd} = V_{Ed}$; $V_{Ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);
- $\gamma_{Rd} = 1.1$;
- cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;
- Tagli Resistenti
- VRd1-3 : Valore del Taglio 1-3 resistente di calcolo;
- VRd1-2 : Valore del Taglio 1-2 resistente di calcolo;
- \emptyset : Diametro della staffa;
- Nbr 2 : Numero di bracci di cui è composta la staffa in direzione 2 locale;
- Nbr 3 : Numero di bracci di cui è composta la staffa in direzione 3 locale;
- Passo : Interasse tra le staffe;
- S1-2 : Coefficiente di sicurezza relativo a VSd1-2
- S1-3 : Coefficiente di sicurezza relativo a VSd1-3
- Esito : V = Verificato; NV = Non Verificato;

Pilastro	Blocco	Ltr [cm]	\emptyset [mm]	Nbr 2	Nbr 3	Passo [mm]	VSd1-2 [kN]	VSd1-3 [kN]	cot(θ)	VRd1-2 [kN]	VRd1-3 [kN]	S1-2	S1-3	Esito
Asta 99 (22-21)	1	45.00	8.0	2	2	90.0	49.62	58.59	2.50	309.66	309.66	6.24	5.29	V
Asta 99 (22-21)	2	90.00	8.0	2	2	140.0	49.62	58.59	2.50	199.94	199.94	4.03	3.41	V
Asta 99 (22-21)	3	45.00	8.0	2	2	90.0	49.62	58.59	2.50	310.16	310.16	6.25	5.29	V
Asta 102 (37-36)	1	45.00	8.0	2	2	90.0	42.24	77.33	2.50	311.02	311.02	7.36	4.02	V
Asta 102 (37-36)	2	90.00	8.0	2	2	140.0	42.24	77.33	2.50	199.94	199.94	4.73	2.59	V
Asta 102 (37-36)	3	45.00	8.0	2	2	90.0	42.24	77.33	2.50	311.02	311.02	7.36	4.02	V
Asta 105 (52-51)	1	45.00	8.0	2	2	90.0	46.88	68.89	2.50	311.02	311.02	6.63	4.51	V
Asta 105 (52-51)	2	90.00	8.0	2	2	140.0	46.88	68.89	2.50	199.94	199.94	4.26	2.90	V
Asta 105 (52-51)	3	45.00	8.0	2	2	90.0	46.88	68.89	2.50	311.02	311.02	6.63	4.51	V
Asta 110 (82-81)	1	45.00	8.0	2	2	90.0	62.14	62.04	2.50	311.02	311.02	5.00	5.01	V
Asta 110 (82-81)	2	90.00	8.0	2	2	140.0	62.14	62.04	2.50	199.94	199.94	3.22	3.22	V
Asta 110 (82-81)	3	45.00	8.0	2	2	90.0	62.14	62.04	2.50	311.02	311.02	5.00	5.01	V
Asta 115 (112-111)	1	45.00	8.0	2	2	90.0	54.37	80.40	2.50	299.18	299.18	5.50	3.72	V
Asta 115 (112-111)	2	90.00	8.0	2	2	140.0	54.37	80.40	2.50	199.94	199.94	3.68	2.49	V
Asta 115 (112-111)	3	45.00	8.0	2	2	90.0	54.37	80.40	2.50	299.68	299.68	5.51	3.73	V
Asta 116 (117-116)	1	45.00	8.0	2	2	90.0	82.05	52.82	2.50	307.16	307.16	3.74	5.82	V
Asta 116 (117-116)	2	90.00	8.0	2	2	140.0	82.05	52.82	2.50	199.94	199.94	2.44	3.79	V
Asta 116 (117-116)	3	45.00	8.0	2	2	90.0	82.05	52.82	2.50	307.65	307.65	3.75	5.82	V
Asta 117 (122-121)	1	45.00	8.0	2	2	90.0	70.98	44.12	2.50	305.98	305.98	4.31	6.94	V
Asta 117 (122-121)	2	110.00	8.0	2	2	140.0	70.98	44.12	2.50	199.94	199.94	2.82	4.53	V
Asta 117 (122-121)	3	45.00	8.0	2	2	90.0	70.98	44.12	2.50	306.53	306.53	4.32	6.95	V
Asta 118 (127-126)	1	45.00	8.0	2	2	90.0	52.88	50.58	2.50	310.32	310.32	5.87	6.14	V
Asta 118 (127-126)	2	90.00	8.0	2	2	140.0	52.88	50.58	2.50	199.94	199.94	3.78	3.95	V
Asta 118 (127-126)	3	45.00	8.0	2	2	90.0	52.88	50.58	2.50	310.83	310.83	5.88	6.15	V
Asta 119 (132-131)	1	45.00	8.0	2	2	90.0	63.38	44.88	2.50	297.22	297.22	4.69	6.62	V
Asta 119 (132-131)	2	90.00	8.0	2	2	140.0	63.38	44.88	2.50	199.94	199.94	3.15	4.45	V
Asta 119 (132-131)	3	45.00	8.0	2	2	90.0	63.38	44.88	2.50	297.71	297.71	4.70	6.63	V
Asta 120 (137-136)	1	45.00	8.0	2	2	90.0	36.83	53.97	2.50	305.43	305.43	8.29	5.66	V
Asta 120 (137-136)	2	110.00	8.0	2	2	140.0	36.83	53.97	2.50	199.94	199.94	5.43	3.70	V
Asta 120 (137-136)	3	45.00	8.0	2	2	90.0	36.83	53.97	2.50	305.97	305.97	8.31	5.67	V
Asta 121 (142-141)	1	45.00	8.0	2	2	110.0	51.79	107.95	2.50	254.47	254.47	4.91	2.36	V
Asta 121 (142-141)	2	90.00	8.0	2	2	120.0	51.79	107.95	2.50	233.26	233.26	4.50	2.16	V
Asta 121 (142-141)	3	45.00	8.0	2	2	110.0	51.79	107.95	2.50	254.47	254.47	4.91	2.36	V
Asta 123 (152-151)	1	45.00	8.0	2	2	90.0	61.97	17.39	2.50	293.38	293.38	4.73	16.87	V
Asta 123 (152-151)	2	110.00	8.0	2	2	140.0	61.97	17.39	2.50	199.94	199.94	3.23	11.50	V

Asta 123 (152-151)	3	45.00	8.0	2	2	90.0	61.97	17.39	2.50	293.93	293.93	4.74	16.91	V
Asta 125 (222-221)	1	45.00	8.0	2	2	110.0	84.50	7.81	2.50	254.47	254.47	3.01	32.59	V
Asta 125 (222-221)	2	110.00	8.0	2	2	150.0	84.50	7.81	2.50	186.61	186.61	2.21	23.90	V
Asta 125 (222-221)	3	45.00	8.0	2	2	110.0	84.50	7.81	2.50	254.47	254.47	3.01	32.59	V
Asta 126 (227-226)	1	45.00	8.0	2	2	90.0	70.89	10.18	2.50	300.38	300.38	4.24	29.50	V
Asta 126 (227-226)	2	110.00	8.0	2	2	140.0	70.89	10.18	2.50	199.94	199.94	2.82	19.64	V
Asta 126 (227-226)	3	45.00	8.0	2	2	90.0	70.89	10.18	2.50	300.95	300.95	4.25	29.56	V
Asta 127 (232-231)	1	45.00	8.0	2	2	90.0	60.24	9.98	2.50	301.09	301.09	5.00	30.17	V
Asta 127 (232-231)	2	110.00	8.0	2	2	140.0	60.24	9.98	2.50	199.94	199.94	3.32	20.04	V
Asta 127 (232-231)	3	45.00	8.0	2	2	90.0	60.24	9.98	2.50	301.66	301.66	5.01	30.23	V
Asta 128 (237-236)	1	45.00	8.0	2	2	90.0	55.99	10.02	2.50	301.66	301.66	5.39	30.11	V
Asta 128 (237-236)	2	110.00	8.0	2	2	140.0	55.99	10.02	2.50	199.94	199.94	3.57	19.95	V
Asta 128 (237-236)	3	45.00	8.0	2	2	90.0	55.99	10.02	2.50	302.24	302.24	5.40	30.16	V
Asta 129 (242-241)	1	45.00	8.0	2	2	90.0	54.06	10.29	2.50	302.72	302.72	5.60	29.43	V
Asta 129 (242-241)	2	110.00	8.0	2	2	140.0	54.06	10.29	2.50	199.94	199.94	3.70	19.44	V
Asta 129 (242-241)	3	45.00	8.0	2	2	90.0	54.06	10.29	2.50	303.29	303.29	5.61	29.48	V
Asta 145 (23-22)	1	45.00	8.0	2	2	90.0	33.26	32.06	2.50	196.54	196.54	5.91	6.13	V
Asta 145 (23-22)	2	98.00	8.0	2	2	140.0	33.26	32.06	2.50	163.59	163.59	4.92	5.10	V
Asta 145 (23-22)	3	45.00	8.0	2	2	90.0	33.26	32.06	2.50	196.79	196.79	5.92	6.14	V
Asta 148 (38-37)	1	45.00	8.0	2	2	110.0	30.22	34.20	2.50	200.75	200.75	6.64	5.87	V
Asta 148 (38-37)	2	98.00	8.0	2	2	160.0	30.22	34.20	2.50	143.14	143.14	4.74	4.19	V
Asta 148 (38-37)	3	45.00	8.0	2	2	110.0	30.22	34.20	2.50	201.00	201.00	6.65	5.88	V
Asta 151 (53-52)	1	45.00	8.0	2	2	90.0	30.66	61.03	2.50	206.69	206.69	6.74	3.39	V
Asta 151 (53-52)	2	63.00	8.0	2	2	140.0	30.66	61.03	2.50	163.59	163.59	5.33	2.68	V
Asta 151 (53-52)	3	45.00	8.0	2	2	90.0	30.66	61.03	2.50	206.90	206.90	6.75	3.39	V
Asta 156 (83-82)	1	45.00	8.0	2	2	90.0	31.18	57.62	2.50	208.67	208.67	6.69	3.62	V
Asta 156 (83-82)	2	63.00	8.0	2	2	140.0	31.18	57.62	2.50	163.59	163.59	5.25	2.84	V
Asta 156 (83-82)	3	45.00	8.0	2	2	90.0	31.18	57.62	2.50	208.87	208.87	6.70	3.62	V
Asta 161 (113-112)	1	45.00	8.0	2	2	110.0	32.16	83.09	2.50	200.36	200.36	6.23	2.41	V
Asta 161 (113-112)	2	63.00	8.0	2	2	160.0	32.16	83.09	2.50	143.14	143.14	4.45	1.72	V
Asta 161 (113-112)	3	45.00	8.0	2	2	110.0	32.16	83.09	2.50	200.57	200.57	6.24	2.41	V
Asta 162 (118-117)	1	45.00	8.0	2	2	90.0	30.20	36.99	2.50	198.21	198.21	6.56	5.36	V
Asta 162 (118-117)	2	98.00	8.0	2	2	140.0	30.20	36.99	2.50	163.59	163.59	5.42	4.42	V
Asta 162 (118-117)	3	45.00	8.0	2	2	90.0	30.20	36.99	2.50	198.47	198.47	6.57	5.37	V
Asta 163 (123-122)	1	45.00	8.0	2	2	90.0	27.59	21.65	2.50	197.40	197.40	7.16	9.12	V
Asta 163 (123-122)	2	98.00	8.0	2	2	140.0	27.59	21.65	2.50	163.59	163.59	5.93	7.56	V
Asta 163 (123-122)	3	45.00	8.0	2	2	90.0	27.59	21.65	2.50	197.66	197.66	7.17	9.13	V
Asta 164 (128-127)	1	45.00	8.0	2	2	90.0	26.61	36.97	2.50	197.40	197.40	7.42	5.34	V
Asta 164 (128-127)	2	98.00	8.0	2	2	140.0	26.61	36.97	2.50	163.59	163.59	6.15	4.42	V
Asta 164 (128-127)	3	45.00	8.0	2	2	90.0	26.61	36.97	2.50	197.64	197.64	7.43	5.35	V
Asta 165 (133-132)	1	45.00	8.0	2	2	90.0	23.51	22.29	2.50	198.34	198.34	8.44	8.90	V
Asta 165 (133-132)	2	98.00	8.0	2	2	140.0	23.51	22.29	2.50	163.59	163.59	6.96	7.34	V
Asta 165 (133-132)	3	45.00	8.0	2	2	90.0	23.51	22.29	2.50	198.59	198.59	8.45	8.91	V
Asta 166 (138-137)	1	45.00	8.0	2	2	90.0	16.14	21.48	2.50	199.50	199.50	12.36	9.29	V
Asta 166 (138-137)	2	98.00	8.0	2	2	140.0	16.14	21.48	2.50	163.59	163.59	10.14	7.62	V
Asta 166 (138-137)	3	45.00	8.0	2	2	90.0	16.14	21.48	2.50	199.76	199.76	12.38	9.30	V
Asta 167 (143-142)	1	45.00	8.0	2	2	90.0	21.98	65.61	2.50	201.25	201.25	9.15	3.07	V
Asta 167 (143-142)	2	63.00	8.0	2	2	140.0	21.98	65.61	2.50	163.59	163.59	7.44	2.49	V
Asta 167 (143-142)	3	45.00	8.0	2	2	90.0	21.98	65.61	2.50	201.46	201.46	9.16	3.07	V
Asta 169 (153-152)	1	45.00	8.0	2	2	90.0	22.41	10.89	2.50	196.50	196.50	8.77	18.04	V
Asta 169 (153-152)	2	98.00	8.0	2	2	140.0	22.41	10.89	2.50	163.59	163.59	7.30	15.02	V
Asta 169 (153-152)	3	45.00	8.0	2	2	90.0	22.41	10.89	2.50	196.76	196.76	8.78	18.06	V
Asta 208 (24-23)	-	87.00	10.0	2	2	70.0	53.88	32.08	2.50	196.42	196.42	3.65	6.12	V
Asta 211 (39-38)	-	87.00	10.0	2	2	60.0	52.45	40.65	2.50	200.63	200.63	3.83	4.94	V
Asta 214 (54-53)	-	87.00	10.0	2	2	60.0	56.61	97.93	2.50	200.43	200.43	3.54	2.05	V
Asta 217 (84-83)	-	87.00	10.0	2	2	60.0	70.91	97.15	2.50	199.80	199.80	2.82	2.06	V
Asta 220 (114-113)	-	87.00	10.0	2	2	70.0	55.02	130.71	2.50	196.25	196.25	3.57	1.50	V
Asta 221 (119-118)	-	87.00	10.0	2	2	60.0	53.06	34.95	2.50	198.14	198.14	3.73	5.67	V
Asta 222 (124-123)	-	87.00	10.0	2	2	60.0	48.55	23.75	2.50	197.30	197.30	4.06	8.31	V
Asta 223 (129-128)	-	87.00	8.0	2	2	50.0	34.27	36.63	2.50	197.31	197.31	5.76	5.39	V
Asta 224 (134-133)	-	87.00	8.0	2	2	80.0	40.66	24.28	2.50	198.25	198.25	4.88	8.16	V
Asta 225 (139-138)	-	87.00	8.0	2	2	90.0	30.41	27.57	2.50	199.40	199.40	6.56	7.23	V
Asta 226 (144-143)	-	87.00	10.0	2	2	70.0	33.10	100.33	2.50	195.03	195.03	5.89	1.94	V
Asta 228 (154-153)	-	87.00	10.0	2	2	70.0	42.20	7.28	2.50	196.41	196.41	4.65	26.97	V

1.2.1.10 Torsione SLU

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

Blocco : Tratto nel quale le staffe vengono mantenute costanti

1 : Estremo iniziale;

2 : Mediano;

3 : Estremo finale;

Ltr : Lunghezza del blocco;

Azioni Sollecitanti

Tsd : Valore del momento torcente di calcolo;

cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;

Azioni Resistenti

TRd : Valore del momento torcente resistente;

Ast : Area delle staffe necessarie per la torsione;

Along : Area delle armature longitudinali necessarie per la torsione;

S : Coefficiente di sicurezza;

Esito : V = Verificato; NV = Non Verificato;

Pilastro	Blocco	Ltr [cm]	Ast [mm ²]	Along [mm ²]	Tsd [kNm]	cot(θ)	Trd [kNm]	S	Esito
Asta 99 (22-21)	1	45.00	0.00	0.00	0.855	2.50	0.00	100.00	V
Asta 99 (22-21)	2	90.00	0.00	0.00	0.855	2.50	0.00	100.00	V
Asta 99 (22-21)	3	45.00	0.00	0.00	0.855	2.50	0.00	100.00	V
Asta 102 (37-36)	1	45.00	0.00	0.00	0.51	2.50	0.00	100.00	V
Asta 102 (37-36)	2	90.00	0.00	0.00	0.51	2.50	0.00	100.00	V
Asta 102 (37-36)	3	45.00	0.00	0.00	0.51	2.50	0.00	100.00	V
Asta 105 (52-51)	1	45.00	0.00	0.00	0.21	2.50	0.00	100.00	V
Asta 105 (52-51)	2	90.00	0.00	0.00	0.21	2.50	0.00	100.00	V
Asta 105 (52-51)	3	45.00	0.00	0.00	0.21	2.50	0.00	100.00	V
Asta 110 (82-81)	1	45.00	0.00	0.00	0.068	2.50	0.00	100.00	V
Asta 110 (82-81)	2	90.00	0.00	0.00	0.068	2.50	0.00	100.00	V
Asta 110 (82-81)	3	45.00	0.00	0.00	0.068	2.50	0.00	100.00	V
Asta 115 (112-111)	1	45.00	0.00	0.00	1.685	2.50	0.00	100.00	V
Asta 115 (112-111)	2	90.00	0.00	0.00	1.685	2.50	0.00	100.00	V
Asta 115 (112-111)	3	45.00	0.00	0.00	1.685	2.50	0.00	100.00	V
Asta 116 (117-116)	1	45.00	0.00	0.00	0.038	2.50	0.00	100.00	V
Asta 116 (117-116)	2	90.00	0.00	0.00	0.038	2.50	0.00	100.00	V
Asta 116 (117-116)	3	45.00	0.00	0.00	0.038	2.50	0.00	100.00	V
Asta 117 (122-121)	1	45.00	0.00	0.00	2.641	2.50	0.00	100.00	V
Asta 117 (122-121)	2	110.00	0.00	0.00	2.641	2.50	0.00	100.00	V
Asta 117 (122-121)	3	45.00	0.00	0.00	2.641	2.50	0.00	100.00	V
Asta 118 (127-126)	1	45.00	0.00	0.00	1.448	2.50	0.00	100.00	V
Asta 118 (127-126)	2	90.00	0.00	0.00	1.448	2.50	0.00	100.00	V
Asta 118 (127-126)	3	45.00	0.00	0.00	1.448	2.50	0.00	100.00	V
Asta 119 (132-131)	1	45.00	0.00	0.00	0.503	2.50	0.00	100.00	V
Asta 119 (132-131)	2	90.00	0.00	0.00	0.503	2.50	0.00	100.00	V
Asta 119 (132-131)	3	45.00	0.00	0.00	0.503	2.50	0.00	100.00	V
Asta 120 (137-136)	1	45.00	0.00	0.00	2.212	2.50	0.00	100.00	V
Asta 120 (137-136)	2	110.00	0.00	0.00	2.212	2.50	0.00	100.00	V
Asta 120 (137-136)	3	45.00	0.00	0.00	2.212	2.50	0.00	100.00	V
Asta 121 (142-141)	1	45.00	0.00	0.00	2.989	2.50	0.00	100.00	V
Asta 121 (142-141)	2	90.00	0.00	0.00	2.989	2.50	0.00	100.00	V
Asta 121 (142-141)	3	45.00	0.00	0.00	2.989	2.50	0.00	100.00	V
Asta 123 (152-151)	1	45.00	0.00	0.00	1.623	2.50	0.00	100.00	V
Asta 123 (152-151)	2	110.00	0.00	0.00	1.623	2.50	0.00	100.00	V
Asta 123 (152-151)	3	45.00	0.00	0.00	1.623	2.50	0.00	100.00	V
Asta 125 (222-221)	1	45.00	0.00	0.00	0.032	2.50	0.00	100.00	V
Asta 125 (222-221)	2	110.00	0.00	0.00	0.032	2.50	0.00	100.00	V
Asta 125 (222-221)	3	45.00	0.00	0.00	0.032	2.50	0.00	100.00	V
Asta 126 (227-226)	1	45.00	0.00	0.00	0.165	2.50	0.00	100.00	V
Asta 126 (227-226)	2	110.00	0.00	0.00	0.165	2.50	0.00	100.00	V
Asta 126 (227-226)	3	45.00	0.00	0.00	0.165	2.50	0.00	100.00	V
Asta 127 (232-231)	1	45.00	0.00	0.00	0.02	2.50	0.00	100.00	V
Asta 127 (232-231)	2	110.00	0.00	0.00	0.02	2.50	0.00	100.00	V
Asta 127 (232-231)	3	45.00	0.00	0.00	0.02	2.50	0.00	100.00	V

Asta 128 (237-236)	1	45.00	0.00	0.00	0.177	2.50	0.00	100.00	V
Asta 128 (237-236)	2	110.00	0.00	0.00	0.177	2.50	0.00	100.00	V
Asta 128 (237-236)	3	45.00	0.00	0.00	0.177	2.50	0.00	100.00	V
Asta 129 (242-241)	1	45.00	0.00	0.00	0.32	2.50	0.00	100.00	V
Asta 129 (242-241)	2	110.00	0.00	0.00	0.32	2.50	0.00	100.00	V
Asta 129 (242-241)	3	45.00	0.00	0.00	0.32	2.50	0.00	100.00	V
Asta 145 (23-22)	1	45.00	0.00	0.00	0.791	2.50	0.00	100.00	V
Asta 145 (23-22)	2	98.00	0.00	0.00	0.791	2.50	0.00	100.00	V
Asta 145 (23-22)	3	45.00	0.00	0.00	0.791	2.50	0.00	100.00	V
Asta 148 (38-37)	1	45.00	0.00	0.00	0.561	2.50	0.00	100.00	V
Asta 148 (38-37)	2	98.00	0.00	0.00	0.561	2.50	0.00	100.00	V
Asta 148 (38-37)	3	45.00	0.00	0.00	0.561	2.50	0.00	100.00	V
Asta 151 (53-52)	1	45.00	0.00	0.00	2.41	2.50	0.00	100.00	V
Asta 151 (53-52)	2	63.00	0.00	0.00	2.41	2.50	0.00	100.00	V
Asta 151 (53-52)	3	45.00	0.00	0.00	2.41	2.50	0.00	100.00	V
Asta 156 (83-82)	1	45.00	0.00	0.00	0.423	2.50	0.00	100.00	V
Asta 156 (83-82)	2	63.00	0.00	0.00	0.423	2.50	0.00	100.00	V
Asta 156 (83-82)	3	45.00	0.00	0.00	0.423	2.50	0.00	100.00	V
Asta 161 (113-112)	1	45.00	0.00	0.00	1.563	2.50	0.00	100.00	V
Asta 161 (113-112)	2	63.00	0.00	0.00	1.563	2.50	0.00	100.00	V
Asta 161 (113-112)	3	45.00	0.00	0.00	1.563	2.50	0.00	100.00	V
Asta 162 (118-117)	1	45.00	0.00	0.00	0.282	2.50	0.00	100.00	V
Asta 162 (118-117)	2	98.00	0.00	0.00	0.282	2.50	0.00	100.00	V
Asta 162 (118-117)	3	45.00	0.00	0.00	0.282	2.50	0.00	100.00	V
Asta 163 (123-122)	1	45.00	0.00	0.00	1.769	2.50	0.00	100.00	V
Asta 163 (123-122)	2	98.00	0.00	0.00	1.769	2.50	0.00	100.00	V
Asta 163 (123-122)	3	45.00	0.00	0.00	1.769	2.50	0.00	100.00	V
Asta 164 (128-127)	1	45.00	0.00	0.00	1.062	2.50	0.00	100.00	V
Asta 164 (128-127)	2	98.00	0.00	0.00	1.062	2.50	0.00	100.00	V
Asta 164 (128-127)	3	45.00	0.00	0.00	1.062	2.50	0.00	100.00	V
Asta 165 (133-132)	1	45.00	0.00	0.00	0.134	2.50	0.00	100.00	V
Asta 165 (133-132)	2	98.00	0.00	0.00	0.134	2.50	0.00	100.00	V
Asta 165 (133-132)	3	45.00	0.00	0.00	0.134	2.50	0.00	100.00	V
Asta 166 (138-137)	1	45.00	0.00	0.00	1.435	2.50	0.00	100.00	V
Asta 166 (138-137)	2	98.00	0.00	0.00	1.435	2.50	0.00	100.00	V
Asta 166 (138-137)	3	45.00	0.00	0.00	1.435	2.50	0.00	100.00	V
Asta 167 (143-142)	1	45.00	0.00	0.00	3.381	2.50	0.00	100.00	V
Asta 167 (143-142)	2	63.00	0.00	0.00	3.381	2.50	0.00	100.00	V
Asta 167 (143-142)	3	45.00	0.00	0.00	3.381	2.50	0.00	100.00	V
Asta 169 (153-152)	1	45.00	0.00	0.00	1.333	2.50	0.00	100.00	V
Asta 169 (153-152)	2	98.00	0.00	0.00	1.333	2.50	0.00	100.00	V
Asta 169 (153-152)	3	45.00	0.00	0.00	1.333	2.50	0.00	100.00	V
Asta 208 (24-23)	-	0.00	0.00	0.00	0.791	2.50	0.00	100.00	V
Asta 211 (39-38)	-	0.00	0.00	0.00	0.561	2.50	0.00	100.00	V
Asta 214 (54-53)	-	0.00	0.00	0.00	3.636	2.50	0.00	100.00	V
Asta 217 (84-83)	-	0.00	0.00	0.00	0.915	2.50	0.00	100.00	V
Asta 220 (114-113)	-	0.00	0.00	0.00	0.227	2.50	0.00	100.00	V
Asta 221 (119-118)	-	0.00	0.00	0.00	0.282	2.50	0.00	100.00	V
Asta 222 (124-123)	-	0.00	0.00	0.00	1.769	2.50	0.00	100.00	V
Asta 223 (129-128)	-	0.00	0.00	0.00	1.062	2.50	0.00	100.00	V
Asta 224 (134-133)	-	0.00	0.00	0.00	0.134	2.50	0.00	100.00	V
Asta 225 (139-138)	-	0.00	0.00	0.00	1.435	2.50	0.00	100.00	V
Asta 226 (144-143)	-	0.00	0.00	0.00	0.669	2.50	0.00	100.00	V
Asta 228 (154-153)	-	0.00	0.00	0.00	1.333	2.50	0.00	100.00	V

1.2.1.11 Torsione SLV

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

Blocco : Tratto nel quale le staffe vengono mantenute costanti

1 : Estremo iniziale;

2 : Mediano;

3 : Estremo finale;

Ltr : Lunghezza del blocco;

Azioni Sollecitanti

Tsd : Valore del momento torcente di calcolo;

$\cot(\theta)$: Cotangente dell'angolo θ di inclinazione delle bielle;

Azioni Resistenti

TRd : Valore del momento torcente resistente;

Ast : Area delle staffe necessarie per la torsione;

Along : Area delle armature longitudinali necessarie per la torsione;

S : Coefficiente di sicurezza;

Esito : V = Verificato; NV = Non Verificato;

Pilastro	Blocco	Ltr [cm]	Ast [mm ²]	Along [mm ²]	Tsd [kNm]	$\cot(\theta)$	Trd [kNm]	S	Esito
Asta 99 (22-21)	1	45.00	0.00	0.00	1.913	2.50	0.00	100.00	V
Asta 99 (22-21)	2	90.00	0.00	0.00	1.913	2.50	0.00	100.00	V
Asta 99 (22-21)	3	45.00	0.00	0.00	1.913	2.50	0.00	100.00	V
Asta 102 (37-36)	1	45.00	0.00	0.00	1.774	2.50	0.00	100.00	V
Asta 102 (37-36)	2	90.00	0.00	0.00	1.774	2.50	0.00	100.00	V
Asta 102 (37-36)	3	45.00	0.00	0.00	1.774	2.50	0.00	100.00	V
Asta 105 (52-51)	1	45.00	0.00	0.00	1.461	2.50	0.00	100.00	V
Asta 105 (52-51)	2	90.00	0.00	0.00	1.461	2.50	0.00	100.00	V
Asta 105 (52-51)	3	45.00	0.00	0.00	1.461	2.50	0.00	100.00	V
Asta 110 (82-81)	1	45.00	0.00	0.00	1.544	2.50	0.00	100.00	V
Asta 110 (82-81)	2	90.00	0.00	0.00	1.544	2.50	0.00	100.00	V
Asta 110 (82-81)	3	45.00	0.00	0.00	1.544	2.50	0.00	100.00	V
Asta 115 (112-111)	1	45.00	0.00	0.00	2.447	2.50	0.00	100.00	V
Asta 115 (112-111)	2	90.00	0.00	0.00	2.447	2.50	0.00	100.00	V
Asta 115 (112-111)	3	45.00	0.00	0.00	2.447	2.50	0.00	100.00	V
Asta 116 (117-116)	1	45.00	0.00	0.00	1.682	2.50	0.00	100.00	V
Asta 116 (117-116)	2	90.00	0.00	0.00	1.682	2.50	0.00	100.00	V
Asta 116 (117-116)	3	45.00	0.00	0.00	1.682	2.50	0.00	100.00	V
Asta 117 (122-121)	1	45.00	0.00	0.00	3.016	2.50	0.00	100.00	V
Asta 117 (122-121)	2	110.00	0.00	0.00	3.016	2.50	0.00	100.00	V
Asta 117 (122-121)	3	45.00	0.00	0.00	3.016	2.50	0.00	100.00	V
Asta 118 (127-126)	1	45.00	0.00	0.00	2.297	2.50	0.00	100.00	V
Asta 118 (127-126)	2	90.00	0.00	0.00	2.297	2.50	0.00	100.00	V
Asta 118 (127-126)	3	45.00	0.00	0.00	2.297	2.50	0.00	100.00	V
Asta 119 (132-131)	1	45.00	0.00	0.00	1.818	2.50	0.00	100.00	V
Asta 119 (132-131)	2	90.00	0.00	0.00	1.818	2.50	0.00	100.00	V
Asta 119 (132-131)	3	45.00	0.00	0.00	1.818	2.50	0.00	100.00	V
Asta 120 (137-136)	1	45.00	0.00	0.00	2.843	2.50	0.00	100.00	V
Asta 120 (137-136)	2	110.00	0.00	0.00	2.843	2.50	0.00	100.00	V
Asta 120 (137-136)	3	45.00	0.00	0.00	2.843	2.50	0.00	100.00	V
Asta 121 (142-141)	1	45.00	0.00	0.00	3.303	2.50	0.00	100.00	V
Asta 121 (142-141)	2	90.00	0.00	0.00	3.303	2.50	0.00	100.00	V
Asta 121 (142-141)	3	45.00	0.00	0.00	3.303	2.50	0.00	100.00	V
Asta 123 (152-151)	1	45.00	0.00	0.00	2.439	2.50	0.00	100.00	V
Asta 123 (152-151)	2	110.00	0.00	0.00	2.439	2.50	0.00	100.00	V
Asta 123 (152-151)	3	45.00	0.00	0.00	2.439	2.50	0.00	100.00	V
Asta 125 (222-221)	1	45.00	0.00	0.00	1.577	2.50	0.00	100.00	V
Asta 125 (222-221)	2	110.00	0.00	0.00	1.577	2.50	0.00	100.00	V
Asta 125 (222-221)	3	45.00	0.00	0.00	1.577	2.50	0.00	100.00	V
Asta 126 (227-226)	1	45.00	0.00	0.00	1.655	2.50	0.00	100.00	V
Asta 126 (227-226)	2	110.00	0.00	0.00	1.655	2.50	0.00	100.00	V
Asta 126 (227-226)	3	45.00	0.00	0.00	1.655	2.50	0.00	100.00	V
Asta 127 (232-231)	1	45.00	0.00	0.00	1.603	2.50	0.00	100.00	V
Asta 127 (232-231)	2	110.00	0.00	0.00	1.603	2.50	0.00	100.00	V
Asta 127 (232-231)	3	45.00	0.00	0.00	1.603	2.50	0.00	100.00	V
Asta 128 (237-236)	1	45.00	0.00	0.00	1.706	2.50	0.00	100.00	V
Asta 128 (237-236)	2	110.00	0.00	0.00	1.706	2.50	0.00	100.00	V
Asta 128 (237-236)	3	45.00	0.00	0.00	1.706	2.50	0.00	100.00	V
Asta 129 (242-241)	1	45.00	0.00	0.00	1.779	2.50	0.00	100.00	V
Asta 129 (242-241)	2	110.00	0.00	0.00	1.779	2.50	0.00	100.00	V
Asta 129 (242-241)	3	45.00	0.00	0.00	1.779	2.50	0.00	100.00	V
Asta 145 (23-22)	1	45.00	0.00	0.00	1.322	2.50	0.00	100.00	V
Asta 145 (23-22)	2	98.00	0.00	0.00	1.322	2.50	0.00	100.00	V
Asta 145 (23-22)	3	45.00	0.00	0.00	1.322	2.50	0.00	100.00	V
Asta 148 (38-37)	1	45.00	0.00	0.00	1.194	2.50	0.00	100.00	V
Asta 148 (38-37)	2	98.00	0.00	0.00	1.194	2.50	0.00	100.00	V
Asta 148 (38-37)	3	45.00	0.00	0.00	1.194	2.50	0.00	100.00	V

Asta 151 (53-52)	1	45.00	0.00	0.00	2.296	2.50	0.00	100.00	V
Asta 151 (53-52)	2	63.00	0.00	0.00	2.296	2.50	0.00	100.00	V
Asta 151 (53-52)	3	45.00	0.00	0.00	2.296	2.50	0.00	100.00	V
Asta 156 (83-82)	1	45.00	0.00	0.00	1.158	2.50	0.00	100.00	V
Asta 156 (83-82)	2	63.00	0.00	0.00	1.158	2.50	0.00	100.00	V
Asta 156 (83-82)	3	45.00	0.00	0.00	1.158	2.50	0.00	100.00	V
Asta 161 (113-112)	1	45.00	0.00	0.00	1.823	2.50	0.00	100.00	V
Asta 161 (113-112)	2	63.00	0.00	0.00	1.823	2.50	0.00	100.00	V
Asta 161 (113-112)	3	45.00	0.00	0.00	1.823	2.50	0.00	100.00	V
Asta 162 (118-117)	1	45.00	0.00	0.00	1.029	2.50	0.00	100.00	V
Asta 162 (118-117)	2	98.00	0.00	0.00	1.029	2.50	0.00	100.00	V
Asta 162 (118-117)	3	45.00	0.00	0.00	1.029	2.50	0.00	100.00	V
Asta 163 (123-122)	1	45.00	0.00	0.00	1.868	2.50	0.00	100.00	V
Asta 163 (123-122)	2	98.00	0.00	0.00	1.868	2.50	0.00	100.00	V
Asta 163 (123-122)	3	45.00	0.00	0.00	1.868	2.50	0.00	100.00	V
Asta 164 (128-127)	1	45.00	0.00	0.00	1.477	2.50	0.00	100.00	V
Asta 164 (128-127)	2	98.00	0.00	0.00	1.477	2.50	0.00	100.00	V
Asta 164 (128-127)	3	45.00	0.00	0.00	1.477	2.50	0.00	100.00	V
Asta 165 (133-132)	1	45.00	0.00	0.00	0.932	2.50	0.00	100.00	V
Asta 165 (133-132)	2	98.00	0.00	0.00	0.932	2.50	0.00	100.00	V
Asta 165 (133-132)	3	45.00	0.00	0.00	0.932	2.50	0.00	100.00	V
Asta 166 (138-137)	1	45.00	0.00	0.00	1.698	2.50	0.00	100.00	V
Asta 166 (138-137)	2	98.00	0.00	0.00	1.698	2.50	0.00	100.00	V
Asta 166 (138-137)	3	45.00	0.00	0.00	1.698	2.50	0.00	100.00	V
Asta 167 (143-142)	1	45.00	0.00	0.00	2.849	2.50	0.00	100.00	V
Asta 167 (143-142)	2	63.00	0.00	0.00	2.849	2.50	0.00	100.00	V
Asta 167 (143-142)	3	45.00	0.00	0.00	2.849	2.50	0.00	100.00	V
Asta 169 (153-152)	1	45.00	0.00	0.00	1.658	2.50	0.00	100.00	V
Asta 169 (153-152)	2	98.00	0.00	0.00	1.658	2.50	0.00	100.00	V
Asta 169 (153-152)	3	45.00	0.00	0.00	1.658	2.50	0.00	100.00	V
Asta 208 (24-23)	-	0.00	0.00	0.00	1.418	1.10	0.00	100.00	V
Asta 211 (39-38)	-	0.00	0.00	0.00	1.29	1.15	0.00	100.00	V
Asta 214 (54-53)	-	0.00	0.00	0.00	3.12	1.15	0.00	100.00	V
Asta 217 (84-83)	-	0.00	0.00	0.00	1.492	1.15	0.00	100.00	V
Asta 220 (114-113)	-	0.00	0.00	0.00	1.07	1.10	0.00	100.00	V
Asta 221 (119-118)	-	0.00	0.00	0.00	1.125	1.15	0.00	100.00	V
Asta 222 (124-123)	-	0.00	0.00	0.00	1.964	1.15	0.00	100.00	V
Asta 223 (129-128)	-	0.00	0.00	0.00	1.573	1.15	0.00	100.00	V
Asta 224 (134-133)	-	0.00	0.00	0.00	1.029	1.90	0.00	100.00	V
Asta 225 (139-138)	-	0.00	0.00	0.00	1.794	2.20	0.00	100.00	V
Asta 226 (144-143)	-	0.00	0.00	0.00	1.436	1.15	0.00	100.00	V
Asta 228 (154-153)	-	0.00	0.00	0.00	1.754	1.30	0.00	100.00	V

1.2.1.12 Stabilità Elastica

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
 λ_X : Rapporto di snellezza in direzione X;
 λ_Y : Rapporto di snellezza in direzione Y;
 λ_{lim} : Rapporto di snellezza limite;
 L_{OX} : Lunghezza libera inflessione in direzione X;
 L_{OY} : Lunghezza libera inflessione in direzione Y;
 Amplificazione : Necessita di amplificate le sollecitazioni: Necessaria; Non necessaria;

In base alle indicazioni normative, in aggiunta al momento sollecitante esterno viene sommata un'aliquota dovuta ad un'eccentricità dello sforzo normale pari a 1/300 dell'altezza della colonna (difetto di rettilineità). Nel caso in cui l'amplificazione sia definita "Necessaria", le sollecitazioni utilizzate nelle verifiche a flessione verranno incrementate con il metodo della curvatura nominale.

Pilastro	λ_X	λ_Y	λ_{lim}	L_{OX} [cm]	L_{OY} [cm]	Amplificazione
Asta 99 (22-21)	20.78	20.78	33.92	179.99	179.99	Non necessaria
Asta 102 (37-36)	20.78	20.78	26.77	180.00	180.00	Non necessaria
Asta 105 (52-51)	20.78	20.78	25.09	180.00	180.00	Non necessaria
Asta 110 (82-81)	20.78	20.78	25.00	180.00	180.00	Non necessaria

Asta 115 (112-111)	20.78	20.78	33.66	180.00	180.00	Non necessaria
Asta 116 (117-116)	20.78	20.78	27.07	179.97	179.97	Non necessaria
Asta 117 (122-121)	23.09	23.09	27.71	199.96	199.96	Non necessaria
Asta 118 (127-126)	20.78	20.78	23.62	179.99	179.99	Non necessaria
Asta 119 (132-131)	20.78	20.78	28.60	180.00	180.00	Non necessaria
Asta 120 (137-136)	23.09	23.09	25.45	200.00	200.00	Non necessaria
Asta 121 (142-141)	20.78	20.78	25.76	179.97	179.97	Non necessaria
Asta 123 (152-151)	23.09	23.09	31.02	200.00	200.00	Non necessaria
Asta 125 (222-221)	23.09	23.09	35.88	200.00	200.00	Non necessaria
Asta 126 (227-226)	23.09	23.09	27.65	200.00	200.00	Non necessaria
Asta 127 (232-231)	23.09	23.09	27.15	200.00	200.00	Non necessaria
Asta 128 (237-236)	23.09	23.09	27.12	200.00	200.00	Non necessaria
Asta 129 (242-241)	23.09	23.09	27.20	200.00	200.00	Non necessaria
Asta 145 (23-22)	26.04	26.04	48.58	187.95	187.95	Non necessaria
Asta 148 (38-37)	26.05	26.05	37.17	187.98	187.98	Non necessaria
Asta 151 (53-52)	21.19	21.19	32.64	152.95	152.95	Non necessaria
Asta 156 (83-82)	21.20	21.20	27.31	152.98	152.98	Non necessaria
Asta 161 (113-112)	21.20	21.20	40.89	152.98	152.98	Non necessaria
Asta 162 (118-117)	26.05	26.05	38.66	187.98	187.98	Non necessaria
Asta 163 (123-122)	26.05	26.05	35.16	187.98	187.98	Non necessaria
Asta 164 (128-127)	26.04	26.04	34.87	187.95	187.95	Non necessaria
Asta 165 (133-132)	26.05	26.05	33.16	187.98	187.98	Non necessaria
Asta 166 (138-137)	26.05	26.05	32.54	187.98	187.98	Non necessaria
Asta 167 (143-142)	21.19	21.19	33.69	152.95	152.95	Non necessaria
Asta 169 (153-152)	26.05	26.05	35.79	188.00	188.00	Non necessaria
Asta 208 (24-23)	12.04	12.04	49.90	86.86	86.86	Non necessaria
Asta 211 (39-38)	12.05	12.05	37.75	86.96	86.96	Non necessaria
Asta 214 (54-53)	12.04	12.04	37.13	86.92	86.92	Non necessaria
Asta 217 (84-83)	12.05	12.05	39.01	86.97	86.97	Non necessaria
Asta 220 (114-113)	12.05	12.05	46.03	86.97	86.97	Non necessaria
Asta 221 (119-118)	12.05	12.05	39.34	86.96	86.96	Non necessaria
Asta 222 (124-123)	12.05	12.05	35.69	86.96	86.96	Non necessaria
Asta 223 (129-128)	12.04	12.04	35.37	86.86	86.86	Non necessaria
Asta 224 (134-133)	12.05	12.05	33.59	86.96	86.96	Non necessaria
Asta 225 (139-138)	12.05	12.05	32.97	86.96	86.96	Non necessaria
Asta 226 (144-143)	12.04	12.04	52.89	86.92	86.92	Non necessaria
Asta 228 (154-153)	12.06	12.06	36.36	87.00	87.00	Non necessaria

1.2.1.13 Resistenza massima a compressione sezione cls SLV

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
 Area sezione : Area della sezione trasversale;
 SL : Stato limite della combinazione più gravosa;
 CdC : Combinazione di carico più gravosa;
 NEd : Sforzo normale a compressione massimo di calcolo;
 Nlim : Valore limite a compressione della sezione in relazione alla classe di duttilità;
 S : Coefficiente di sicurezza;
 Esito : V = Verificato; NV = Non Verificato;

Pilastro	Area sezione [mm²]	SL	CdC	NEd [kN]	Nlim [kN]	S	Esito
Asta 99 (22-21)	90000.00	SLV	CC2	253.736	828.75	3.27	V
Asta 102 (37-36)	90000.00	SLV	CC1	293.441	828.75	2.82	V
Asta 105 (52-51)	90000.00	SLV	CC1	328.271	828.75	2.52	V
Asta 110 (82-81)	90000.00	SLV	CC1	326.272	828.75	2.54	V
Asta 115 (112-111)	90000.00	SLV	CC1	192.339	828.75	4.31	V
Asta 116 (117-116)	90000.00	SLV	CC1	266.302	828.75	3.11	V
Asta 117 (122-121)	90000.00	SLV	CC6	258.995	828.75	3.20	V
Asta 118 (127-126)	90000.00	SLV	CC16	265.535	828.75	3.12	V
Asta 119 (132-131)	90000.00	SLV	CC16	181.194	828.75	4.57	V
Asta 120 (137-136)	90000.00	SLV	CC8	237.444	828.75	3.49	V
Asta 121 (142-141)	90000.00	SLV	CC3	271.458	828.75	3.05	V
Asta 123 (152-151)	90000.00	SLV	CC8	156.686	828.75	5.29	V
Asta 125 (222-221)	90000.00	SLV	CC11	128.338	828.75	6.46	V

Asta 126 (227-226)	90000.00	SLV	CC1	201.428	828.75	4.11	V
Asta 127 (232-231)	90000.00	SLV	CC5	202.901	828.75	4.08	V
Asta 128 (237-236)	90000.00	SLV	CC5	203.569	828.75	4.07	V
Asta 129 (242-241)	90000.00	SLV	CC5	202.576	828.75	4.09	V
Asta 145 (23-22)	62500.00	SLV	CC2	78.82	575.521	7.30	V
Asta 148 (38-37)	62500.00	SLV	CC2	108.433	575.521	5.31	V
Asta 151 (53-52)	62500.00	SLV	CC9	151.934	575.521	3.79	V
Asta 156 (83-82)	62500.00	SLV	CC1	166.50	575.521	3.46	V
Asta 161 (113-112)	62500.00	SLV	CC9	108.466	575.521	5.31	V
Asta 162 (118-117)	62500.00	SLV	CC1	102.406	575.521	5.62	V
Asta 163 (123-122)	62500.00	SLV	CC8	95.626	575.521	6.02	V
Asta 164 (128-127)	62500.00	SLV	CC16	84.605	575.521	6.80	V
Asta 165 (133-132)	62500.00	SLV	CC16	93.553	575.521	6.15	V
Asta 166 (138-137)	62500.00	SLV	CC8	100.441	575.521	5.73	V
Asta 167 (143-142)	62500.00	SLV	CC4	106.655	575.521	5.40	V
Asta 169 (153-152)	62500.00	SLV	CC8	81.508	575.521	7.06	V
Asta 208 (24-23)	62500.00	SLV	CC2	76.451	575.521	7.53	V
Asta 211 (39-38)	62500.00	SLV	CC2	105.992	575.521	5.43	V
Asta 214 (54-53)	62500.00	SLV	CC1	107.613	575.521	5.35	V
Asta 217 (84-83)	62500.00	SLV	CC1	101.487	575.521	5.67	V
Asta 220 (114-113)	62500.00	SLV	CC1	76.282	575.521	7.54	V
Asta 221 (119-118)	62500.00	SLV	CC1	100.009	575.521	5.75	V
Asta 222 (124-123)	62500.00	SLV	CC8	93.155	575.521	6.18	V
Asta 223 (129-128)	62500.00	SLV	CC16	82.264	575.521	7.00	V
Asta 224 (134-133)	62500.00	SLV	CC16	91.195	575.521	6.31	V
Asta 225 (139-138)	62500.00	SLV	CC8	97.95	575.521	5.88	V
Asta 226 (144-143)	62500.00	SLV	CC1	66.929	575.521	8.60	V
Asta 228 (154-153)	62500.00	SLV	CC8	79.029	575.521	7.28	V

1.2.1.14 Dettagli costruttivi per la duttilità SLV

Pilastro	: Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
α	: Coefficiente di efficacia del confinamento;
ω_{wd}	: Rapporto meccanico dell'armatura trasversale di confinamento all'interno della zona dissipativa;
μ_{ϕ}	: Domanda di duttilità di curvatura;
v_d	: Forza assiale adimensionalizzata di progetto relativa alla combinazione sismica «Asta_Dutt_ST»
$\epsilon_{sy,d}$: Deformazione di snervamento dell'acciaio;
b_c	: Larghezza minima della sezione trasversale lorda;
b_0	: Larghezza del nucleo confinato corrispondente a b_c ;
S	: Coefficiente di sicurezza;
Esito	: V = Verificato; NV = Non Verificato;

Pilastro	α	ω_{wd}	μ_{ϕ}	v_d	$\epsilon_{sy,d}$	b_c [cm]	b_0 [cm]	S	Esito
Asta 105 (52-51)	0.45	0.27	5.42	0.26	0.0019	30.0	22.2	1.73	V
Asta 110 (82-81)	0.42	0.27	5.42	0.26	0.0019	30.0	22.2	1.64	V
Asta 121 (142-141)	0.39	0.22	5.42	0.21	0.0019	30.0	22.0	1.63	V
Asta 125 (222-221)	0.39	0.22	5.42	0.10	0.0019	30.0	22.0	12.99	V

1.2.1.15 Duttilità SLV

Pilastro	: Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
Dir.	: Asse locale del momento flettente;
N_{sd}	: Sforzo normale sollecitante di calcolo relativo alla combinazione più gravosa;
μ_{ϕ}	: Domanda di duttilità in curvatura;
μ_{ED}	: Capacità di duttilità in curvatura;
ϕ_y	: Curvatura di snervamento;
ϕ_u	: Curvatura ultima;
S	: Coefficiente di sicurezza;
Esito	: V = Verificato; NV = Non Verificato;

Pilastro	Dir.	N _{sd} [kN]	μ_{ϕ}	μ_{ED}	ϕ_y	ϕ_u	S	Esito
Asta 99 (22-21)	2	-253.74	9.19	5.42	0.00165	0.01514	1.69	V
Asta 99 (22-21)	3	-253.74	5.67	5.42	0.0019	0.0108	1.05	V
Asta 102 (37-36)	2	-293.93	6.02	5.42	0.00181	0.01091	1.11	V
Asta 102 (37-36)	3	-293.93	5.59	5.42	0.00185	0.01032	1.03	V
Asta 115 (112-111)	2	-192.34	7.04	5.42	0.00175	0.0123	1.30	V
Asta 115 (112-111)	3	-192.34	6.28	5.42	0.00181	0.01136	1.16	V
Asta 116 (117-116)	2	-266.30	5.86	5.42	0.00182	0.01067	1.08	V
Asta 116 (117-116)	3	-266.30	5.86	5.42	0.00182	0.01067	1.08	V
Asta 117 (122-121)	2	-258.99	6.38	5.42	0.00179	0.01142	1.18	V
Asta 117 (122-121)	3	-258.99	5.82	5.42	0.00183	0.01067	1.07	V
Asta 118 (127-126)	2	-265.53	6.60	5.42	0.00173	0.01142	1.22	V
Asta 118 (127-126)	3	-265.53	6.48	5.42	0.00178	0.01152	1.19	V
Asta 119 (132-131)	2	-181.19	7.47	5.42	0.00172	0.01284	1.38	V
Asta 119 (132-131)	3	-181.19	7.47	5.42	0.00172	0.01284	1.38	V
Asta 120 (137-136)	2	-237.44	9.70	5.42	0.00164	0.0159	1.79	V
Asta 120 (137-136)	3	-237.44	6.79	5.42	0.00179	0.01212	1.25	V
Asta 123 (152-151)	2	-156.69	7.81	5.42	0.00169	0.01316	1.44	V
Asta 123 (152-151)	3	-156.69	6.77	5.42	0.00181	0.01226	1.25	V
Asta 126 (227-226)	2	-201.53	6.94	5.42	0.00175	0.01217	1.28	V
Asta 126 (227-226)	3	-201.53	6.21	5.42	0.00181	0.01126	1.15	V
Asta 127 (232-231)	2	-202.90	7.35	5.42	0.00171	0.01256	1.35	V
Asta 127 (232-231)	3	-202.90	6.18	5.42	0.00183	0.01133	1.14	V
Asta 128 (237-236)	2	-203.57	7.94	5.42	0.00167	0.01328	1.46	V
Asta 128 (237-236)	3	-203.57	5.99	5.42	0.00185	0.0111	1.10	V
Asta 129 (242-241)	2	-202.58	7.96	5.42	0.00167	0.01332	1.47	V
Asta 129 (242-241)	3	-202.58	5.99	5.42	0.00185	0.01111	1.10	V

1.2.1.16 Spostamenti relativi (RIG) SLO

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

SL 2 : Stato limite della combinazione più gravosa in direzione locale 2;

SL 3 : Stato limite della combinazione più gravosa in direzione locale 3;

Hrif : Altezza di riferimento per la verifica;

Dr 3 : Spostamento relativo tra gli estremi in direzione locale 3;

Dlim 3 : Spostamento limite in direzione locale 3;

Dr 2 : Spostamento relativo tra gli estremi in direzione locale 2;

Dlim 2 : Spostamento limite in direzione locale 2;

S 3 : Valore del coefficiente di sicurezza in direzione locale 3;

S 2 : Valore del coefficiente di sicurezza in direzione locale 2;

Esito : V = Verificato; NV = Non Verificato;

La verifica degli spostamenti relativi è stata effettuata al fine di limitare il danno sugli elementi strutturali verticali.

Pilastro	SL 2	SL 3	Hrif [cm]	Dr 3 [cm]	Dlim 3 [cm]	Dr 2 [cm]	Dlim 2 [cm]	S 3	S 2	Esito
Asta 99 (22-21)	SLO	SLO	180.00	0.71	0.90	0.71	0.90	1.27	1.27	V
Asta 102 (37-36)	SLO	SLO	180.00	0.61	0.90	0.71	0.90	1.47	1.26	V
Asta 105 (52-51)	SLO	SLO	180.00	0.58	0.90	0.71	0.90	1.55	1.26	V
Asta 110 (82-81)	SLO	SLO	180.00	0.57	0.90	0.71	0.90	1.58	1.27	V
Asta 115 (112-111)	SLO	SLO	180.00	0.56	0.90	0.70	0.90	1.60	1.29	V
Asta 116 (117-116)	SLO	SLO	180.00	0.55	0.90	0.67	0.90	1.64	1.35	V
Asta 117 (122-121)	SLO	SLO	200.00	0.59	1.00	0.68	1.00	1.70	1.48	V
Asta 118 (127-126)	SLO	SLO	180.00	0.76	0.90	0.65	0.90	1.19	1.39	V
Asta 119 (132-131)	SLO	SLO	180.00	0.74	0.90	0.63	0.90	1.21	1.44	V
Asta 120 (137-136)	SLO	SLO	200.00	0.68	1.00	0.68	1.00	1.48	1.48	V
Asta 121 (142-141)	SLO	SLO	180.00	0.63	0.90	0.69	0.90	1.43	1.30	V
Asta 123 (152-151)	SLO	SLO	200.00	0.68	1.00	0.74	1.00	1.48	1.36	V
Asta 125 (222-221)	SLO	SLO	200.00	0.88	1.00	0.69	1.00	1.14	1.45	V
Asta 126 (227-226)	SLO	SLO	200.00	0.76	1.00	0.68	1.00	1.31	1.46	V
Asta 127 (232-231)	SLO	SLO	200.00	0.66	1.00	0.67	1.00	1.51	1.49	V
Asta 128 (237-236)	SLO	SLO	200.00	0.63	1.00	0.67	1.00	1.59	1.49	V

Asta 129 (242-241)	SLO	SLO	200.00	0.61	1.00	0.67	1.00	1.65	1.48	V
Asta 145 (23-22)	SLO	SLO	188.00	0.67	0.94	0.54	0.94	1.39	1.73	V
Asta 148 (38-37)	SLO	SLO	188.00	0.61	0.94	0.56	0.94	1.53	1.69	V
Asta 151 (53-52)	SLO	SLO	153.00	0.49	0.77	0.48	0.77	1.56	1.59	V
Asta 156 (83-82)	SLO	SLO	153.00	0.45	0.77	0.47	0.77	1.70	1.62	V
Asta 161 (113-112)	SLO	SLO	153.00	0.44	0.77	0.44	0.77	1.74	1.72	V
Asta 162 (118-117)	SLO	SLO	188.00	0.44	0.94	0.57	0.94	2.15	1.65	V
Asta 163 (123-122)	SLO	SLO	188.00	0.51	0.94	0.49	0.94	1.85	1.91	V
Asta 164 (128-127)	SLO	SLO	188.00	0.58	0.94	0.53	0.94	1.63	1.77	V
Asta 165 (133-132)	SLO	SLO	188.00	0.57	0.94	0.44	0.94	1.65	2.14	V
Asta 166 (138-137)	SLO	SLO	188.00	0.51	0.94	0.48	0.94	1.83	1.97	V
Asta 167 (143-142)	SLO	SLO	153.00	0.39	0.77	0.43	0.77	1.96	1.76	V
Asta 169 (153-152)	SLO	SLO	188.00	0.49	0.94	0.49	0.94	1.93	1.92	V
Asta 208 (24-23)	SLO	SLO	87.00	0.46	0.49	0.33	0.44	1.06	1.32	V
Asta 211 (39-38)	SLO	SLO	87.00	0.39	0.44	0.33	0.44	1.11	1.30	V
Asta 214 (54-53)	SLO	SLO	87.00	0.29	0.44	0.29	0.44	1.49	1.51	V
Asta 217 (84-83)	SLO	SLO	87.00	0.29	0.44	0.30	0.44	1.50	1.47	V
Asta 220 (114-113)	SLO	SLO	87.00	0.25	0.44	0.29	0.44	1.73	1.49	V
Asta 221 (119-118)	SLO	SLO	87.00	0.34	0.44	0.32	0.44	1.27	1.36	V
Asta 222 (124-123)	SLO	SLO	87.00	0.33	0.44	0.29	0.44	1.31	1.52	V
Asta 223 (129-128)	SLO	SLO	87.00	0.41	0.44	0.36	0.44	1.07	1.21	V
Asta 224 (134-133)	SLO	SLO	87.00	0.40	0.44	0.29	0.44	1.08	1.51	V
Asta 225 (139-138)	SLO	SLO	87.00	0.35	0.44	0.30	0.44	1.24	1.47	V
Asta 226 (144-143)	SLO	SLO	87.00	0.31	0.44	0.29	0.44	1.42	1.51	V
Asta 228 (154-153)	SLO	SLO	87.00	0.37	0.44	0.32	0.44	1.17	1.37	V

1.2.1.17 Stato Tensionale SLE

Pilastro	: Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
N. Sez.	: Posizione misurata lungo l'asse dell'elemento;
SL	: Stato limite della combinazione più gravosa;
CdC	: Combinazione di carico più gravosa;
Azioni Sollecitanti	
Nsd	: Sforzo normale sollecitante;
Msd3	: Valore del momento sollecitante attorno all'asse 3 locale;
Msd2	: Valore del momento sollecitante attorno all'asse 2 locale;
Tensioni massime	
σ MaxCls	: Tensione massima di compressione sul calcestruzzo;
σ MaxAcc	: Tensione massima di trazione sulle barre da armatura;
Tensioni limite	
σ LimCls	: Tensione limite di compressione del calcestruzzo;
σ LimAcc	: Tensione limite di trazione delle barre da armatura;
S	: Valore del coefficiente di sicurezza minimo della sezione;
Esito	: V = Verificato; NV = Non Verificato;

Pilastro	N. Sez.	SL	CdC	Azioni Sollecitanti			Tensioni massime		Tensioni limite		S	Esito
				Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	σ MaxCls [N/mm ²]	σ MaxAcc [N/mm ²]	σ LimCls [N/mm ²]	σ LimAcc [N/mm ²]		
Asta 99 (22-21)	1	SLE Quasi Permanenti	CC1	-181.16	-23.15	-11.73	8.887	101.41	11.25	360.00	1.27	V
Asta 102 (37-36)	1	SLE Car.	CC1	-282.25	-25.38	-24.58	11.515	133.62	15.00	360.00	1.30	V
Asta 105 (52-51)	1	SLE Car.	CC1	-322.61	-12.08	-23.50	9.858	119.273	15.00	360.00	1.52	V
Asta 110 (82-81)	2	SLE Quasi Permanenti	CC1	-269.37	-2.07	28.02	8.399	99.584	11.25	360.00	1.34	V
Asta 115 (112-111)	1	SLE Quasi Permanenti	CC1	-151.01	24.00	-19.72	10.086	-112.386	11.25	360.00	1.12	V
Asta 116 (117-116)	1	SLE Quasi Permanenti	CC1	-223.76	-15.31	29.81	10.055	114.924	11.25	360.00	1.12	V
Asta 117 (122-121)	1	SLE Quasi Permanenti	CC1	-203.04	-8.61	-30.66	9.239	104.67	11.25	360.00	1.22	V
Asta 118 (127-126)	1	SLE Quasi Permanenti	CC1	-215.34	12.83	13.35	7.024	84.442	11.25	360.00	1.60	V
Asta 119 (132-131)	1	SLE Quasi Permanenti	CC1	-147.67	12.05	-10.55	5.835	68.365	11.25	360.00	1.93	V
Asta 120 (137-136)	2	SLE Quasi Permanenti	CC1	-210.80	-2.79	-2.95	2.739	37.853	11.25	360.00	4.11	V
Asta 121 (142-141)	2	SLE Quasi Permanenti	CC1	-206.52	-48.47	11.85	11.588	-130.328	11.25	360.00	1.2	V
Asta 123 (152-151)	1	SLE Quasi Permanenti	CC1	-143.52	4.44	-15.05	4.864	57.258	11.25	360.00	2.31	V
Asta 125 (222-221)	1	SLE Car.	CC1	-155.45	-1.50	-3.15	1.747	23.629	15.00	360.00	8.59	V
Asta 126 (227-226)	1	SLE Car.	CC1	-267.73	-1.22	-4.54	2.986	41.34	15.00	360.00	5.02	V
Asta 127 (232-231)	1	SLE Car.	CC1	-273.25	-0.30	-6.29	3.264	44.827	15.00	360.00	4.60	V

Asta 128 (237-236)	1	SLE Car.	CC1	-273.89	0.07	-5.65	3.237	44.797	15.00	360.00	4.63	V
Asta 129 (242-241)	1	SLE Car.	CC1	-272.49	0.68	-0.99	2.533	36.937	15.00	360.00	5.92	V
Asta 145 (23-22)	2	SLE Quasi Permanenti	CC1	-59.34	14.30	12.75	10.707	-138.138	11.25	360.00	1.05	V
Asta 148 (38-37)	2	SLE Quasi Permanenti	CC1	-86.28	12.99	17.81	11.075	-127.156	11.25	360.00	1.02	V
Asta 151 (53-52)	2	SLE Quasi Permanenti	CC1	-124.27	10.04	15.92	10.96	113.412	11.25	360.00	1.03	V
Asta 156 (83-82)	2	SLE Car.	CC1	-160.78	-0.17	18.47	8.904	95.055	15.00	360.00	1.68	V
Asta 161 (113-112)	2	SLE Quasi Permanenti	CC1	-85.00	-14.90	15.83	11.058	-126.337	11.25	360.00	1.02	V
Asta 162 (118-117)	2	SLE Quasi Permanenti	CC1	-80.46	13.82	-14.46	11.182	-133.986	11.25	360.00	1.01	V
Asta 163 (123-122)	2	SLE Quasi Permanenti	CC1	-61.25	4.91	17.70	9.676	-137.407	11.25	360.00	1.16	V
Asta 164 (128-127)	2	SLE Quasi Permanenti	CC1	-74.35	-11.64	-7.72	8.991	-106.148	11.25	360.00	1.25	V
Asta 165 (133-132)	2	SLE Quasi Permanenti	CC1	-80.89	-6.88	3.88	5.133	55.85	11.25	360.00	2.19	V
Asta 166 (138-137)	2	SLE Quasi Permanenti	CC1	-91.11	-1.78	-0.89	2.031	26.562	11.25	360.00	5.54	V
Asta 167 (143-142)	2	SLE Quasi Permanenti	CC1	-72.71	-14.75	9.93	10.803	-136.002	11.25	360.00	1.04	V
Asta 169 (153-152)	2	SLE Quasi Permanenti	CC1	-77.99	-1.54	8.41	4.844	51.464	11.25	360.00	2.32	V
Asta 208 (24-23)	1	SLE Quasi Permanenti	CC1	-55.21	-16.52	-19.89	23.391	-172.396	11.25	360.00	1.17	V
Asta 211 (39-38)	1	SLE Quasi Permanenti	CC1	-82.14	-14.94	-26.26	27.109	-189.302	11.25	360.00	1.03	V
Asta 214 (54-53)	1	SLE Quasi Permanenti	CC1	-83.93	-14.78	-25.65	27.837	-184.154	11.25	360.00	1.08	V
Asta 217 (84-83)	1	SLE Quasi Permanenti	CC1	-77.50	-1.57	-28.75	10.808	-148.139	11.25	360.00	1.04	V
Asta 220 (114-113)	1	SLE Quasi Permanenti	CC1	-57.44	17.39	-24.95	18.531	-204.79	11.25	360.00	1.07	V
Asta 221 (119-118)	1	SLE Quasi Permanenti	CC1	-76.28	-23.23	17.80	18.099	-188.327	11.25	360.00	1.02	V
Asta 222 (124-123)	1	SLE Quasi Permanenti	CC1	-56.99	-6.46	-20.24	9.702	-125.692	11.25	360.00	1.16	V
Asta 223 (129-128)	1	SLE Quasi Permanenti	CC1	-70.22	22.53	9.49	11.388	-145.343	11.25	360.00	0.99	V
Asta 224 (134-133)	1	SLE Quasi Permanenti	CC1	-76.75	7.92	-2.57	4.381	47.466	11.25	360.00	2.57	V
Asta 225 (139-138)	1	SLE Quasi Permanenti	CC1	-86.84	2.28	3.00	2.606	31.768	11.25	360.00	4.32	V
Asta 226 (144-143)	1	SLE Quasi Permanenti	CC1	-47.97	16.92	-11.86	10.57	-135.063	11.25	360.00	1.06	V
Asta 228 (154-153)	1	SLE Quasi Permanenti	CC1	-73.70	2.17	-9.95	4.69	48.448	11.25	360.00	2.40	V

1.2.1.18 Fessurazione SLE

Pilastro : Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");

N. Sez. : Posizione misurata lungo l'asse dell'elemento;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

Nsd : Sforzo normale sollecitante;

Msd3 : Valore del momento sollecitante attorno all'asse 3 locale;

Msd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Fessurazione

Wk Max : Massima apertura delle fessure;

Wk Lim : Valore limite dell'apertura delle fessure;

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

Pilastro	N. Sez.	SL	CdC	Azioni Sollecitanti			Fessurazione		S	Esito
				Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	Wk max [cm]	Wk Lim [cm]		
Asta 99 (22-21)	1	SLE Quasi Permanenti	CC1	-181.16	-23.15	-11.73	0.00398	0.03	7.54	V
Asta 102 (37-36)	1	SLE Quasi Permanenti	CC1	-233.29	-20.81	-16.22	0.00235	0.03	12.74	V
Asta 105 (52-51)	1	SLE Frequenti	CC1	-282.64	-11.04	-17.37	0.00	0.04	100.00	V
Asta 110 (82-81)	2	SLE Frequenti	CC1	-284.77	-2.36	30.22	0.00259	0.04	15.42	V
Asta 115 (112-111)	1	SLE Quasi Permanenti	CC1	-151.01	24.00	-19.72	0.00525	0.03	5.71	V
Asta 116 (117-116)	1	SLE Quasi Permanenti	CC1	-223.76	-15.31	29.81	0.00392	0.03	7.65	V
Asta 117 (122-121)	1	SLE Quasi Permanenti	CC1	-203.04	-8.61	-30.66	0.00406	0.03	7.39	V
Asta 118 (127-126)	1	SLE Frequenti	CC1	-229.04	14.21	13.89	0.00	0.04	100.00	V
Asta 119 (132-131)	1	SLE Frequenti	CC1	-156.75	13.26	-11.05	0.00	0.04	100.00	V
Asta 120 (137-136)	1	SLE Frequenti	CC1	-220.13	3.08	1.05	0.00	0.04	100.00	V
Asta 121 (142-141)	2	SLE Quasi Permanenti	CC1	-206.52	-48.47	10.85	0.00737	0.03	4.07	V
Asta 123 (152-151)	1	SLE Frequenti	CC1	-152.62	4.71	-16.13	0.00	0.04	100.00	V
Asta 125 (222-221)	1	SLE Frequenti	CC1	-127.37	-1.34	-2.48	0.00	0.04	100.00	V
Asta 126 (227-226)	1	SLE Frequenti	CC1	-213.09	-1.00	-3.17	0.00	0.04	100.00	V
Asta 127 (232-231)	1	SLE Frequenti	CC1	-217.60	-0.24	-4.73	0.00	0.04	100.00	V
Asta 128 (237-236)	1	SLE Frequenti	CC1	-218.09	0.06	-4.18	0.00	0.04	100.00	V
Asta 129 (242-241)	1	SLE Frequenti	CC1	-217.03	0.55	-0.18	0.00	0.04	100.00	V
Asta 145 (23-22)	2	SLE Quasi Permanenti	CC1	-59.34	14.30	12.75	0.0071	0.03	4.22	V

Asta 148 (38-37)	2	SLE Quasi Permanenti	CC1	-86.28	12.99	17.81	0.00679	0.03	4.42	V
Asta 151 (53-52)	2	SLE Quasi Permanenti	CC1	-124.27	10.04	15.92	0.005	0.03	5.99	V
Asta 156 (83-82)	1	SLE Frequenti	CC1	-148.52	-0.57	-2.85	0.00	0.04	100.00	V
Asta 161 (113-112)	2	SLE Quasi Permanenti	CC1	-85.00	-14.90	15.83	0.00664	0.03	4.52	V
Asta 162 (118-117)	2	SLE Quasi Permanenti	CC1	-80.46	13.82	-14.46	0.00661	0.03	4.54	V
Asta 163 (123-122)	2	SLE Quasi Permanenti	CC1	-61.25	4.91	17.70	0.00728	0.03	4.12	V
Asta 164 (128-127)	2	SLE Quasi Permanenti	CC1	-74.35	-11.64	-7.72	0.00565	0.03	5.31	V
Asta 165 (133-132)	1	SLE Frequenti	CC1	-83.84	1.54	0.30	0.00	0.04	100.00	V
Asta 166 (138-137)	1	SLE Frequenti	CC1	-90.74	0.63	1.38	0.00	0.04	100.00	V
Asta 167 (143-142)	2	SLE Quasi Permanenti	CC1	-72.71	-14.75	9.93	0.00717	0.03	4.19	V
Asta 169 (153-152)	1	SLE Frequenti	CC1	-78.21	0.63	-2.28	0.00	0.04	100.00	V
Asta 208 (24-23)	1	SLE Quasi Permanenti	CC1	-55.21	-16.52	-19.89	0.01106	0.03	2.71	V
Asta 211 (39-38)	1	SLE Quasi Permanenti	CC1	-82.14	-14.94	-26.26	0.01252	0.03	2.40	V
Asta 214 (54-53)	1	SLE Quasi Permanenti	CC1	-83.93	-14.78	-25.65	0.01204	0.03	2.49	V
Asta 217 (84-83)	1	SLE Quasi Permanenti	CC1	-77.50	-1.57	-28.75	0.00966	0.03	3.11	V
Asta 220 (114-113)	1	SLE Quasi Permanenti	CC1	-57.44	17.39	-24.95	0.01389	0.03	2.16	V
Asta 221 (119-118)	1	SLE Quasi Permanenti	CC1	-76.28	-23.23	17.80	0.01226	0.03	2.45	V
Asta 222 (124-123)	1	SLE Quasi Permanenti	CC1	-56.99	-6.46	-20.24	0.00733	0.03	4.09	V
Asta 223 (129-128)	1	SLE Quasi Permanenti	CC1	-70.22	22.53	9.49	0.0086	0.03	3.49	V
Asta 224 (134-133)	1	SLE Frequenti	CC1	-82.04	8.50	-2.54	0.00	0.04	100.00	V
Asta 225 (139-138)	1	SLE Frequenti	CC1	-88.94	2.55	2.99	0.00	0.04	100.00	V
Asta 226 (144-143)	1	SLE Quasi Permanenti	CC1	-47.97	16.92	-11.86	0.00791	0.03	3.79	V
Asta 228 (154-153)	1	SLE Frequenti	CC1	-76.38	2.30	-10.65	0.00	0.04	100.00	V

1.2.3 Travi di Elevazione, Collegamenti plinti

Nei seguenti paragrafi si riportano i risultati delle verifiche delle travi di elevazione, collegamenti plinti.

1.2.3.1 Flessione composta retta CAM in direzione 2 SLU

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Trave	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					NSd [kN]	MSd3 [kNm]	MSd2 [kNm]	NRd [kN]	MRd3 [kNm]	MRd2 [kNm]					
Asta 7 (16-21)	570.00	1077.57	SLU	CC1	0.00	-18.26	0.00	0.00	-54.16	0.00	0.11	0.19	2	2.97	V
Asta 10 (21-36)	0.00	1231.50	SLU	CC1	0.00	-34.46	0.00	0.00	-66.82	0.00	0.13	0.19	2	1.94	V
Asta 13 (31-36)	57.00	615.75	NsdColl	NsdCollTraz	92.87	0.00	0.00	240.95	0.00	0.00	0.00	0.00	1	2.59	V

Asta 16 (36-51)	0.00	1231.50	SLU	CC1	0.00	-21.93	0.00	0.00	-54.29	0.00	0.10	0.19	2	2.48	V
Asta 19 (46-51)	114.00	615.75	NsdColl	NsdCollTraz	97.61	0.00	0.00	240.95	0.00	0.00	0.00	0.00	1	2.47	V
Asta 22 (66-51)	0.00	615.75	SLU	CC1	0.00	-5.75	0.00	0.00	-29.67	0.00	0.35	2.03	3	5.16	V
Asta 24 (56-66)	335.99	1231.50	SLU	CC1	0.00	38.35	0.00	0.00	43.02	0.00	0.35	1.79	3	1.12	V
Asta 27 (81-66)	211.00	923.63	SLU	CC1	0.00	-6.47	0.00	0.00	-29.69	0.00	0.35	1.99	3	4.59	V
Asta 30 (76-81)	342.00	923.63	SLU	CC1	0.00	13.18	0.00	0.00	27.92	0.00	0.07	0.19	2	2.12	V
Asta 33 (96-81)	61.00	923.63	SLU	CC1	0.00	17.84	0.00	0.00	56.28	0.00	0.35	1.35	3	3.16	V
Asta 35 (86-96)	366.00	1385.44	SLU	CC1	0.00	50.69	0.00	0.00	56.31	0.00	0.35	1.60	3	1.11	V
Asta 36 (111-96)	0.00	923.63	SLU	CC1	0.00	-19.32	0.00	0.00	-56.28	0.00	0.35	1.35	3	2.91	V
Asta 38 (106-111)	570.00	923.63	SLU	CC1	0.00	-17.55	0.00	0.00	-53.98	0.00	0.12	0.19	2	3.08	V
Asta 40 (111-141)	0.00	923.63	SLU	CC1	0.00	25.51	0.00	0.00	53.98	0.00	0.12	0.19	2	2.12	V
Asta 42 (126-116)	615.00	1077.57	SLU	CC1	0.00	-16.94	0.00	0.00	-54.16	0.00	0.11	0.19	2	3.20	V
Asta 43 (121-136)	237.50	923.63	SLU	CC1	0.00	7.28	0.00	0.00	27.92	0.00	0.07	0.19	2	3.84	V
Asta 44 (131-126)	315.00	615.75	SLU	CC1	0.00	10.41	0.00	0.00	27.97	0.00	0.07	0.19	2	2.69	V
Asta 45 (136-131)	50.00	923.63	SLU	CC1	0.00	11.41	0.00	0.00	27.92	0.00	0.07	0.19	2	2.45	V
Asta 46 (156-131)	288.44	615.75	SLU	CC1	0.00	11.87	0.00	0.00	27.97	0.00	0.07	0.19	2	2.36	V
Asta 47 (136-151)	172.13	615.75	SLU	CC1	0.00	7.63	0.00	0.00	27.97	0.00	0.07	0.19	2	3.67	V
Asta 49 (151-141)	335.00	923.63	SLU	CC1	0.00	-29.11	0.00	0.00	-53.98	0.00	0.12	0.19	2	1.85	V
Asta 51 (12-2)	444.00	1693.32	SLU	CC1	0.00	-43.99	0.00	0.00	-137.66	0.00	0.35	1.50	3	3.13	V
Asta 52 (2-222)	0.00	2412.74	SLU	CC1	0.00	-134.29	0.00	0.00	-288.12	0.00	0.35	2.43	3	2.15	V
Asta 53 (7-17)	0.00	1693.32	SLU	CC1	0.00	-75.09	0.00	0.00	-137.66	0.00	0.35	1.50	3	1.83	V
Asta 54 (222-7)	585.00	2412.74	SLU	CC1	0.00	-154.84	0.00	0.00	-288.12	0.00	0.35	2.43	3	1.86	V
Asta 55 (27-12)	222.00	923.63	SLU	CC1	0.00	14.23	0.00	0.00	61.11	0.00	0.35	2.52	3	4.30	V
Asta 56 (12-227)	0.00	2211.68	SLU	CC1	0.00	-253.81	0.00	0.00	-287.55	0.00	0.35	2.15	3	1.13	V
Asta 57 (22-17)	216.67	2010.62	SLU	CC1	0.00	116.81	0.00	0.00	285.86	0.00	0.35	4.38	3	2.45	V
Asta 58 (17-32)	0.00	1231.50	SLU	CC1	0.00	-32.10	0.00	0.00	-99.56	0.00	0.35	1.84	3	3.10	V
Asta 59 (227-17)	585.00	2544.69	SLU	CC1	0.00	-293.66	0.00	0.00	-310.99	0.00	0.35	2.21	3	1.06	V
Asta 60 (37-22)	444.00	1539.38	SLU	CC1	0.00	-84.83	0.00	0.00	-220.15	0.00	0.35	4.83	3	2.60	V
Asta 61 (42-27)	0.00	1385.44	SLU	CC1	0.00	-23.04	0.00	0.00	-99.64	0.00	0.35	1.99	3	4.32	V
Asta 62 (27-232)	0.00	2010.62	SLU	CC1	0.00	-233.61	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.06	V
Asta 63 (37-32)	570.00	2001.19	SLU	CC1	0.00	-206.77	0.00	0.00	-222.40	0.00	0.35	2.97	3	1.08	V
Asta 64 (32-47)	222.00	923.63	SLU	CC1	0.00	13.98	0.00	0.00	61.11	0.00	0.35	2.52	3	4.37	V
Asta 65 (232-32)	585.00	2544.69	SLU	CC1	0.00	-297.68	0.00	0.00	-310.99	0.00	0.35	2.21	3	1.04	V
Asta 66 (52-37)	127.33	1539.38	SLU	CC1	0.00	79.04	0.00	0.00	220.15	0.00	0.35	4.83	3	2.79	V
Asta 67 (72-42)	222.00	923.63	SLU	CC1	0.00	13.48	0.00	0.00	61.11	0.00	0.35	2.52	3	4.53	V
Asta 68 (42-237)	0.00	2010.62	SLU	CC1	0.00	-232.57	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.06	V
Asta 69 (52-47)	228.75	1608.50	SLU	CC1	0.00	155.20	0.00	0.00	166.48	0.00	0.35	3.35	3	1.07	V
Asta 70 (47-77)	222.00	923.63	SLU	CC1	0.00	14.56	0.00	0.00	61.11	0.00	0.35	2.52	3	4.20	V
Asta 71 (237-47)	585.00	2544.69	SLU	CC1	0.00	-297.59	0.00	0.00	-310.99	0.00	0.35	2.21	3	1.05	V
Asta 72 (67-52)	0.00	1539.38	SLU	CC1	0.00	90.90	0.00	0.00	220.15	0.00	0.35	4.83	3	2.42	V
Asta 73 (82-67)	80.01	1539.38	SLU	CC1	0.00	102.50	0.00	0.00	220.15	0.00	0.35	4.83	3	2.15	V
Asta 74 (102-72)	0.00	1539.38	SLU	CC1	0.00	-37.69	0.00	0.00	-118.74	0.00	0.35	1.73	3	3.15	V
Asta 75 (72-242)	0.00	2010.62	SLU	CC1	0.00	-247.81	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.00	V
Asta 76 (82-77)	228.75	1608.50	SLU	CC1	0.00	153.55	0.00	0.00	166.48	0.00	0.35	3.35	3	1.08	V
Asta 77 (77-107)	444.00	1231.50	SLU	CC1	0.00	-40.96	0.00	0.00	-99.56	0.00	0.35	1.84	3	2.43	V
Asta 78 (242-77)	585.00	2211.68	SLU	CC1	0.00	-286.67	0.00	0.00	-287.55	0.00	0.35	2.15	3	1.00	V
Asta 79 (97-82)	0.00	1539.38	SLU	CC1	0.00	122.87	0.00	0.00	220.15	0.00	0.35	4.83	3	1.79	V
Asta 80 (112-97)	288.00	1539.38	SLU	CC1	0.00	125.45	0.00	0.00	220.15	0.00	0.35	4.83	3	1.75	V
Asta 81 (102-117)	0.00	2544.69	SLU	CC1	0.00	-289.88	0.00	0.00	-310.99	0.00	0.35	2.21	3	1.07	V
Asta 82 (112-107)	285.00	1693.32	SLU	CC1	0.00	139.61	0.00	0.00	191.14	0.00	0.35	3.11	3	1.37	V
Asta 83 (122-107)	209.00	2010.62	SLU	CC1	0.00	-225.23	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.10	V
Asta 84 (142-112)	300.00	1539.38	SLU	CC1	0.00	158.96	0.00	0.00	220.15	0.00	0.35	4.83	3	1.38	V

Asta 85 (117-122)	251.25	1539.38	SLU	CC1	0.00	184.94	0.00	0.00	191.03	0.00	0.35	2.89	3	1.03	V		
Asta 86 (117-127)	315.00	1847.26	SLU	CC1	0.00	244.15	0.00	0.00	306.59	0.00	0.35	3.88	3	1.26	V		
Asta 87 (122-137)	195.00	1231.50	SLU	CC1	0.00	63.71	0.00	0.00	128.60	0.00	0.35	3.73	3	2.02	V		
Asta 88 (127-132)	432.50	1539.38	SLU	CC1	0.00	119.69	0.00	0.00	220.15	0.00	0.35	4.83	3	1.84	V		
Asta 89 (137-132)	105.01	1231.50	SLU	CC1	0.00	67.34	0.00	0.00	128.60	0.00	0.35	3.73	3	1.91	V		
Asta 90 (132-157)	461.50	1539.38	SLU	CC1	0.00	-	134.85	0.00	0.00	-	220.15	0.00	0.35	4.83	3	1.63	V
Asta 91 (137-152)	229.50	1231.50	SLU	CC1	0.00	62.42	0.00	0.00	128.60	0.00	0.35	3.73	3	2.06	V		
Asta 92 (142-147)	300.00	1539.38	SLU	CC1	0.00	-53.74	0.00	0.00	-	220.15	0.00	0.35	4.83	3	4.10	V	
Asta 93 (152-142)	350.00	1231.50	SLU	CC1	0.00	-62.51	0.00	0.00	-	128.60	0.00	0.35	3.73	3	2.06	V	
Asta 94 (157-147)	0.00	1539.38	SLU	CC1	0.00	-98.49	0.00	0.00	-	220.15	0.00	0.35	4.83	3	2.24	V	
Asta 130 (68-53)	0.00	923.63	SLU	CC1	0.00	26.58	0.00	0.00	35.21	0.00	0.35	2.33	3	1.32	V		
Asta 131 (63-58)	359.00	769.69	SLU	CC1	0.00	-19.86	0.00	0.00	-24.44	0.00	0.35	0.80	3	1.23	V		
Asta 132 (58-68)	0.00	1385.44	SLU	CC1	0.00	-55.72	0.00	0.00	-56.40	0.00	0.35	0.42	3	1.01	V		
Asta 133 (88-58)	307.00	615.75	SLU	CC1	0.00	-3.06	0.00	0.00	-17.15	0.00	0.35	1.03	3	5.60	V		
Asta 134 (93-63)	153.50	615.75	SLU	CC1	0.00	2.50	0.00	0.00	17.15	0.00	0.35	1.03	3	6.85	V		
Asta 135 (83-68)	216.00	923.63	SLU	CC1	0.00	27.12	0.00	0.00	35.21	0.00	0.35	2.33	3	1.30	V		
Asta 136 (98-83)	66.00	923.63	SLU	CC2	0.00	-25.46	0.00	0.00	-67.68	0.00	0.35	1.50	3	2.66	V		
Asta 137 (88-93)	25.00	769.69	SLU	CC1	0.00	-19.11	0.00	0.00	-24.44	0.00	0.35	0.80	3	1.28	V		
Asta 138 (98-88)	386.00	1385.44	SLU	CC1	0.00	-52.83	0.00	0.00	-55.40	0.00	0.35	0.42	3	1.05	V		
Asta 139 (113-98)	275.00	923.63	SLU	CC1	0.00	26.18	0.00	0.00	35.21	0.00	0.35	2.33	3	1.35	V		
Asta 140 (143-113)	0.00	1385.44	SLU	CC1	0.00	-48.25	0.00	0.00	-99.61	0.00	0.35	1.14	3	2.06	V		
Asta 231 (15-5)	444.00	1077.57	SLU	CC1	0.00	-14.93	0.00	0.00	-56.31	0.00	0.35	1.47	3	3.77	V		
Asta 233 (20-10)	413.99	1231.50	SLU	CC1	0.00	-22.00	0.00	0.00	-56.32	0.00	0.35	1.54	3	2.56	V		
Asta 236 (30-15)	222.00	615.75	SLU	CC1	0.00	3.43	0.00	0.00	29.67	0.00	0.35	2.03	3	8.65	V		
Asta 238 (35-20)	444.00	1231.50	SLU	CC1	0.00	-7.66	0.00	0.00	-56.32	0.00	0.35	1.54	3	7.35	V		
Asta 241 (45-30)	0.00	1077.57	SLU	CC1	0.00	-6.40	0.00	0.00	-56.31	0.00	0.35	1.47	3	8.80	V		
Asta 243 (50-35)	0.00	1077.57	SLU	CC1	0.00	-6.06	0.00	0.00	-56.31	0.00	0.35	1.47	3	9.30	V		
Asta 246 (75-45)	222.00	615.75	SLU	CC1	0.00	3.09	0.00	0.00	29.67	0.00	0.35	2.03	3	9.60	V		
Asta 248 (80-50)	0.00	1077.57	SLU	CC1	0.00	-7.64	0.00	0.00	-56.31	0.00	0.35	1.47	3	7.37	V		
Asta 251 (105-75)	0.00	1077.57	SLU	CC1	0.00	-12.42	0.00	0.00	-56.31	0.00	0.35	1.47	3	4.53	V		
Asta 253 (110-80)	0.00	1231.50	SLU	CC1	0.00	-20.49	0.00	0.00	-69.44	0.00	0.35	1.23	3	3.39	V		

1.2.3.2 Flessione composta retta CAM in direzione 2 SLV

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Trave	Pos. [cm]	As [mm²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	Nrd [kN]	Mrd3 [kNm]	Mrd2 [kNm]					
Asta 7 (16-21)	513.00	923.63	SLV	CC7	0.00	26.91	0.00	0.00	27.92	0.00	0.07	0.19	2	1.04	V
Asta 10 (21-36)	444.00	1077.57	SLV	CC11	0.00	38.81	0.00	0.00	41.24	0.00	0.08	0.19	2	1.06	V
Asta 13 (31-36)	57.00	615.75	SLV	CC7	0.00	-27.12	0.00	0.00	-27.97	0.00	0.07	0.19	2	1.03	V
Asta 16 (36-51)	0.00	1231.50	SLV	CC11	0.00	-47.55	0.00	0.00	-54.29	0.00	0.10	0.19	2	1.14	V
Asta 19 (46-51)	570.00	923.63	SLV	CC7	0.00	26.00	0.00	0.00	27.92	0.00	0.07	0.19	2	1.07	V
Asta 22 (66-51)	203.00	923.63	SLV	CC14	0.00	20.52	0.00	0.00	29.69	0.00	0.35	1.99	3	1.45	V
Asta 24 (56-66)	335.99	1231.50	SLV	CC1	0.00	29.74	0.00	0.00	43.02	0.00	0.35	1.79	3	1.45	V
Asta 27 (81-66)	0.00	923.63	SLV	CC16	0.00	-18.44	0.00	0.00	-29.69	0.00	0.35	1.99	3	1.61	V
Asta 30 (76-81)	513.00	923.63	SLV	CC8	0.00	26.85	0.00	0.00	27.92	0.00	0.07	0.19	2	1.04	V
Asta 33 (96-81)	61.00	923.63	SLV	CC14	0.00	34.44	0.00	0.00	56.28	0.00	0.35	1.35	3	1.63	V
Asta 35 (86-96)	366.00	1385.44	SLV	CC1	0.00	40.92	0.00	0.00	56.31	0.00	0.35	1.60	3	1.38	V
Asta 36 (111-96)	353.00	923.63	SLV	CC16	0.00	21.11	0.00	0.00	29.69	0.00	0.35	1.99	3	1.41	V
Asta 38 (106-111)	57.00	923.63	SLV	CC1	0.00	26.51	0.00	0.00	27.92	0.00	0.07	0.19	2	1.05	V
Asta 40 (111-141)	0.00	923.63	SLV	CC14	0.00	50.19	0.00	0.00	53.98	0.00	0.12	0.19	2	1.08	V
Asta 42 (126-116)	0.00	1077.57	SLV	CC13	0.00	-49.95	0.00	0.00	-54.16	0.00	0.11	0.19	2	1.08	V
Asta 43 (121-136)	47.50	923.63	SLV	CC16	0.00	25.73	0.00	0.00	27.92	0.00	0.07	0.19	2	1.08	V
Asta 44 (131-126)	63.00	615.75	SLV	CC1	0.00	-26.43	0.00	0.00	-27.97	0.00	0.07	0.19	2	1.06	V
Asta 45 (136-131)	300.00	1077.57	SLV	CC16	0.00	-51.13	0.00	0.00	-54.16	0.00	0.11	0.19	2	1.06	V
Asta 46 (156-131)	403.81	615.75	SLV	CC3	0.00	27.05	0.00	0.00	27.97	0.00	0.07	0.19	2	1.03	V
Asta 47 (136-151)	57.38	615.75	SLV	CC1	0.00	27.11	0.00	0.00	27.97	0.00	0.07	0.19	2	1.03	V
Asta 49 (151-141)	55.83	923.63	SLV	CC1	0.00	24.69	0.00	0.00	27.92	0.00	0.07	0.19	2	1.13	V
Asta 51 (12-2)	0.00	1385.44	SLV	CC12	0.00	79.96	0.00	0.00	80.41	0.00	0.35	2.35	3	1.01	V
Asta 52 (2-222)	0.00	2412.74	SLV	CC7	0.00	-250.53	0.00	0.00	-288.12	0.00	0.35	2.43	3	1.15	V
Asta 53 (7-17)	40.01	1385.44	SLV	CC11	0.00	-95.46	0.00	0.00	-99.64	0.00	0.35	1.99	3	1.04	V
Asta 54 (222-7)	585.00	2412.74	SLV	CC2	0.00	-258.82	0.00	0.00	-288.12	0.00	0.35	2.43	3	1.11	V
Asta 55 (27-12)	0.00	1385.44	SLV	CC13	0.00	-96.71	0.00	0.00	-99.64	0.00	0.35	1.99	3	1.03	V
Asta 56 (12-227)	0.00	2211.68	SLV	CC7	0.00	-263.37	0.00	0.00	-287.55	0.00	0.35	2.15	3	1.09	V
Asta 57 (22-17)	570.00	2211.68	SLV	CC7	0.00	-309.76	0.00	0.00	-342.15	0.00	0.35	3.88	3	1.10	V
Asta 58 (17-32)	404.00	923.63	SLV	CC11	0.00	53.99	0.00	0.00	61.11	0.00	0.35	2.52	3	1.13	V
Asta 59 (227-17)	524.99	2035.75	SLV	CC2	0.00	-174.80	0.00	0.00	-209.10	0.00	0.35	3.05	3	1.20	V
Asta 60 (37-22)	444.00	1539.38	SLV	CC11	0.00	-135.31	0.00	0.00	-220.15	0.00	0.35	4.83	3	1.63	V
Asta 61 (42-27)	0.00	1385.44	SLV	CC13	0.00	-97.49	0.00	0.00	-99.64	0.00	0.35	1.99	3	1.02	V
Asta 62 (27-232)	0.00	2010.62	SLV	CC7	0.00	-220.94	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.12	V
Asta 63 (37-32)	509.99	1539.38	SLV	CC7	0.00	-124.13	0.00	0.00	-128.59	0.00	0.35	3.94	3	1.04	V
Asta 64 (32-47)	444.00	1231.50	SLV	CC11	0.00	53.24	0.00	0.00	61.09	0.00	0.35	2.61	3	1.15	V
Asta 65 (232-32)	524.99	2035.75	SLV	CC2	0.00	-164.18	0.00	0.00	-209.10	0.00	0.35	3.05	3	1.27	V
Asta 66 (52-37)	0.00	1539.38	SLV	CC11	0.00	97.60	0.00	0.00	220.15	0.00	0.35	4.83	3	2.26	V
Asta 67 (72-42)	0.00	1385.44	SLV	CC13	0.00	-96.87	0.00	0.00	-99.64	0.00	0.35	1.99	3	1.03	V
Asta 68 (42-237)	0.00	2010.62	SLV	CC8	0.00	-212.96	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.16	V
Asta 69 (52-47)	570.00	2010.62	SLV	CC7	0.00	-212.00	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.17	V
Asta 70 (47-77)	444.00	1231.50	SLV	CC11	0.00	52.42	0.00	0.00	61.09	0.00	0.35	2.61	3	1.17	V
Asta 71 (237-47)	524.99	2035.75	SLV	CC1	0.00	-157.98	0.00	0.00	-209.10	0.00	0.35	3.05	3	1.32	V
Asta 72 (67-52)	109.00	1539.38	SLV	CC14	0.00	65.15	0.00	0.00	220.15	0.00	0.35	4.83	3	3.38	V
Asta 73 (82-67)	0.00	1539.38	SLV	CC11	0.00	104.97	0.00	0.00	220.15	0.00	0.35	4.83	3	2.10	V
Asta 74 (102-72)	0.00	1539.38	SLV	CC13	0.00	-114.95	0.00	0.00	-118.74	0.00	0.35	1.73	3	1.03	V
Asta 75 (72-242)	0.00	2010.62	SLV	CC8	0.00	-221.42	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.12	V
Asta 76 (82-77)	570.00	2010.62	SLV	CC8	0.00	-216.71	0.00	0.00	-247.48	0.00	0.35	2.51	3	1.14	V
Asta 77 (77-107)	444.00	1231.50	SLV	CC14	0.00	-98.54	0.00	0.00	-99.56	0.00	0.35	1.84	3	1.01	V
Asta 78 (242-77)	524.99	1608.50	SLV	CC1	0.00	-152.24	0.00	0.00	-166.48	0.00	0.35	3.35	3	1.09	V
Asta 79 (97-82)	76.00	1539.38	SLV	CC14	0.00	136.36	0.00	0.00	220.15	0.00	0.35	4.83	3	1.61	V
Asta 80 (112-97)	0.00	1539.38	SLV	CC9	0.00	121.71	0.00	0.00	220.15	0.00	0.35	4.83	3	1.81	V
Asta 81 (102-117)	60.03	2035.75	SLV	CC6	0.00	-206.88	0.00	0.00	-209.10	0.00	0.35	3.05	3	1.01	V
Asta 82 (112-107)	570.00	2001.19	SLV	CC8	0.00	-197.57	0.00	0.00	-222.40	0.00	0.35	2.97	3	1.13	V
Asta 83 (122-107)	148.98	1608.50	SLV	CC1	0.00	-148.15	0.00	0.00	-166.48	0.00	0.35	3.35	3	1.12	V
Asta 84 (142-112)	0.00	1539.38	SLV	CC14	0.00	-151.89	0.00	0.00	-220.15	0.00	0.35	4.83	3	1.45	V
Asta 85 (117-122)	630.00	1847.26	SLV	CC3	0.00	-153.33	0.00	0.00	-191.20	0.00	0.35	3.28	3	1.25	V
Asta 86 (117-127)	0.00	1847.26	SLV	CC12	0.00	-145.18	0.00	0.00	-220.16	0.00	0.35	5.16	3	1.52	V
Asta 87 (122-137)	0.00	1231.50	SLV	CC9	0.00	-95.25	0.00	0.00	-128.60	0.00	0.35	3.73	3	1.35	V
Asta 88 (127-132)	630.00	1539.38	SLV	CC8	0.00	102.57	0.00	0.00	220.15	0.00	0.35	4.83	3	2.15	V
Asta 89 (137-132)	300.00	1231.50	SLV	CC16	0.00	-93.89	0.00	0.00	-128.60	0.00	0.35	3.73	3	1.37	V
Asta 90 (132-157)	461.50	1539.38	SLV	CC13	0.00	-148.27	0.00	0.00	-220.15	0.00	0.35	4.83	3	1.48	V
Asta 91 (137-152)	0.00	1231.50	SLV	CC8	0.00	-72.13	0.00	0.00	-128.60	0.00	0.35	3.73	3	1.78	V
Asta 92 (142-147)	300.00	1539.38	SLV	CC14	0.00	-110.98	0.00	0.00	-220.15	0.00	0.35	4.83	3	1.98	V
Asta 93 (152-142)	350.00	1231.50	SLV	CC1	0.00	-95.04	0.00	0.00	-128.60	0.00	0.35	3.73	3	1.35	V

Asta 94 (157-147)	0.00	1539.38	SLV	CC16	0.00	-102.46	0.00	0.00	-220.15	0.00	0.35	4.83	3	2.15	V
Asta 130 (68-53)	208.00	1077.57	SLV	CC11	0.00	-81.31	0.00	0.00	-83.46	0.00	0.35	1.18	3	1.03	V
Asta 131 (63-58)	0.00	769.69	SLV	CC1	0.00	-17.69	0.00	0.00	-24.44	0.00	0.35	0.80	3	1.38	V
Asta 132 (58-68)	0.00	1385.44	SLV	CC1	0.00	-42.78	0.00	0.00	-45.40	0.00	0.35	0.42	3	1.06	V
Asta 133 (88-58)	307.00	615.75	SLV	CC5	0.00	-13.01	0.00	0.00	-17.15	0.00	0.35	1.03	3	1.32	V
Asta 134 (93-63)	307.00	615.75	SLV	CC5	0.00	-15.28	0.00	0.00	-17.15	0.00	0.35	1.03	3	1.12	V
Asta 135 (83-68)	0.00	923.63	SLV	CC14	0.00	-59.70	0.00	0.00	-67.68	0.00	0.35	1.50	3	1.13	V
Asta 136 (98-83)	0.00	923.63	SLV	CC14	0.00	30.60	0.00	0.00	35.21	0.00	0.35	2.33	3	1.15	V
Asta 137 (88-93)	384.00	769.69	SLV	CC1	0.00	-17.90	0.00	0.00	-24.44	0.00	0.35	0.80	3	1.37	V
Asta 138 (98-88)	386.00	1385.44	SLV	CC1	0.00	-41.73	0.00	0.00	-45.40	0.00	0.35	0.42	3	1.09	V
Asta 139 (113-98)	358.00	923.63	SLV	CC14	0.00	33.24	0.00	0.00	35.21	0.00	0.35	2.33	3	1.06	V
Asta 140 (143-113)	270.00	1231.50	SLV	CC14	0.00	50.44	0.00	0.00	51.53	0.00	0.35	2.10	3	1.02	V
Asta 231 (15-5)	444.00	1077.57	SLV	CC12	0.00	-55.40	0.00	0.00	-56.31	0.00	0.35	1.47	3	1.02	V
Asta 233 (20-10)	413.99	1231.50	SLV	CC11	0.00	-53.45	0.00	0.00	-56.32	0.00	0.35	1.54	3	1.05	V
Asta 236 (30-15)	444.00	1077.57	SLV	CC13	0.00	40.27	0.00	0.00	43.03	0.00	0.35	1.76	3	1.07	V
Asta 238 (35-20)	30.00	1077.57	SLV	CC14	0.00	-35.66	0.00	0.00	-43.03	0.00	0.35	1.76	3	1.21	V
Asta 241 (45-30)	444.00	1077.57	SLV	CC13	0.00	39.80	0.00	0.00	43.03	0.00	0.35	1.76	3	1.08	V
Asta 243 (50-35)	444.00	1077.57	SLV	CC14	0.00	39.38	0.00	0.00	43.03	0.00	0.35	1.76	3	1.09	V
Asta 246 (75-45)	444.00	1077.57	SLV	CC13	0.00	39.77	0.00	0.00	43.03	0.00	0.35	1.76	3	1.08	V
Asta 248 (80-50)	444.00	1077.57	SLV	CC14	0.00	40.31	0.00	0.00	43.03	0.00	0.35	1.76	3	1.07	V
Asta 251 (105-75)	0.00	1077.57	SLV	CC13	0.00	-55.48	0.00	0.00	-56.31	0.00	0.35	1.47	3	1.01	V
Asta 253 (110-80)	413.99	1077.57	SLV	CC13	0.00	42.01	0.00	0.00	43.03	0.00	0.35	1.76	3	1.02	V

1.2.3.3 Flessione composta retta CAM in direzione 2 SLD

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Trave	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	MSd3 [kNm]	MSd2 [kNm]	Nrd [kN]	MRd3 [kNm]	MRd2 [kNm]					
Asta 7 (16-21)	570.00	1077.57	SLD	CC4	0.00	-43.30	0.00	0.00	-63.37	0.00	0.10	0.21	2	1.46	V
Asta 10 (21-36)	444.00	1077.57	SLD	CC11	0.00	39.55	0.00	0.00	48.16	0.00	0.08	0.21	2	1.22	V
Asta 13 (31-36)	57.00	615.75	SLD	CC5	0.00	-22.38	0.00	0.00	-32.72	0.00	0.07	0.21	2	1.46	V
Asta 16 (36-51)	0.00	1231.50	SLD	CC11	0.00	-46.64	0.00	0.00	-63.41	0.00	0.10	0.21	2	1.36	V
Asta 19 (46-51)	570.00	923.63	SLD	CC5	0.00	21.14	0.00	0.00	32.62	0.00	0.07	0.21	2	1.54	V
Asta 22 (66-51)	203.00	923.63	SLD	CC14	0.00	32.05	0.00	0.00	32.62	0.00	0.07	0.21	2	1.02	V
Asta 24 (56-66)	335.99	1231.50	SLD	CC3	0.00	36.81	0.00	0.00	48.13	0.00	0.08	0.21	2	1.31	V
Asta 27 (81-66)	0.00	923.63	SLD	CC16	0.00	-26.87	0.00	0.00	-32.62	0.00	0.06	0.21	2	1.21	V
Asta 30 (76-81)	513.00	923.63	SLD	CC6	0.00	23.15	0.00	0.00	32.62	0.00	0.06	0.21	2	1.41	V
Asta 33 (96-81)	61.00	923.63	SLD	CC11	0.00	-23.12	0.00	0.00	-32.62	0.00	0.06	0.21	2	1.41	V

Asta 35 (86-96)	366.00	1385.44	SLD	CC1	0.00	51.04	0.00	0.00	63.43	0.00	0.09	0.21	2	1.24	V
Asta 36 (111-96)	353.00	923.63	SLD	CC14	0.00	26.09	0.00	0.00	32.62	0.00	0.06	0.21	2	1.25	V
Asta 38 (106-111)	57.00	923.63	SLD	CC1	0.00	21.66	0.00	0.00	32.62	0.00	0.06	0.21	2	1.51	V
Asta 40 (111-141)	0.00	923.63	SLD	CC14	0.00	46.15	0.00	0.00	63.30	0.00	0.11	0.21	2	1.37	V
Asta 42 (126-116)	0.00	1077.57	SLD	CC13	0.00	-44.41	0.00	0.00	-63.37	0.00	0.10	0.21	2	1.43	V
Asta 43 (121-136)	237.50	923.63	SLD	CC11	0.00	24.33	0.00	0.00	32.62	0.00	0.06	0.21	2	1.34	V
Asta 44 (131-126)	63.00	615.75	SLD	CC1	0.00	-26.52	0.00	0.00	-32.72	0.00	0.06	0.21	2	1.23	V
Asta 45 (136-131)	300.00	1077.57	SLD	CC14	0.00	-47.50	0.00	0.00	-63.37	0.00	0.10	0.21	2	1.33	V
Asta 46 (156-131)	403.81	615.75	SLD	CC3	0.00	27.10	0.00	0.00	32.72	0.00	0.07	0.21	2	1.21	V
Asta 47 (136-151)	57.38	615.75	SLD	CC1	0.00	26.60	0.00	0.00	32.72	0.00	0.07	0.21	2	1.23	V
Asta 49 (151-141)	55.83	923.63	SLD	CC1	0.00	26.10	0.00	0.00	32.62	0.00	0.06	0.21	2	1.25	V
Asta 51 (12-2)	0.00	1385.44	SLD	CC12	0.00	88.34	0.00	0.00	90.11	0.00	0.08	0.21	2	1.02	V
Asta 52 (2-222)	0.00	2412.74	SLD	CC7	0.00	-282.18	0.00	0.00	-318.10	0.00	0.10	0.21	2	1.13	V
Asta 53 (7-17)	40.01	1385.44	SLD	CC11	0.00	-104.55	0.00	0.00	-111.42	0.00	0.09	0.21	2	1.07	V
Asta 54 (222-7)	585.00	2412.74	SLD	CC2	0.00	-294.08	0.00	0.00	-318.10	0.00	0.10	0.21	2	1.08	V
Asta 55 (27-12)	0.00	1385.44	SLD	CC13	0.00	-110.48	0.00	0.00	-111.42	0.00	0.09	0.21	2	1.01	V
Asta 56 (12-227)	0.00	2211.68	SLD	CC7	0.00	-295.71	0.00	0.00	-316.68	0.00	0.10	0.21	2	1.07	V
Asta 57 (22-17)	570.00	2211.68	SLD	CC7	0.00	-340.97	0.00	0.00	-378.40	0.00	0.08	0.21	2	1.11	V
Asta 58 (17-32)	404.00	923.63	SLD	CC11	0.00	62.78	0.00	0.00	68.17	0.00	0.07	0.21	2	1.09	V
Asta 59 (227-17)	524.99	2035.75	SLD	CC2	0.00	-203.87	0.00	0.00	-232.85	0.00	0.08	0.21	2	1.14	V
Asta 60 (37-22)	444.00	1539.38	SLD	CC11	0.00	-145.01	0.00	0.00	-245.02	0.00	0.06	0.21	2	1.69	V
Asta 61 (42-27)	0.00	1385.44	SLD	CC13	0.00	-111.65	0.00	0.00	-111.42	0.00	0.09	0.21	2	1.00	V
Asta 62 (27-232)	60.02	1608.50	SLD	CC7	0.00	-173.89	0.00	0.00	-185.55	0.00	0.07	0.21	2	1.07	V
Asta 63 (37-32)	509.99	1539.38	SLD	CC7	0.00	-136.91	0.00	0.00	-143.87	0.00	0.06	0.21	2	1.05	V
Asta 64 (32-47)	444.00	1231.50	SLD	CC11	0.00	65.46	0.00	0.00	68.24	0.00	0.06	0.21	2	1.04	V
Asta 65 (232-32)	524.99	2035.75	SLD	CC2	0.00	-192.91	0.00	0.00	-232.85	0.00	0.08	0.21	2	1.21	V
Asta 66 (52-37)	0.00	1539.38	SLD	CC11	0.00	112.53	0.00	0.00	245.02	0.00	0.06	0.21	2	2.18	V
Asta 67 (72-42)	0.00	1385.44	SLD	CC13	0.00	-111.33	0.00	0.00	-111.42	0.00	0.09	0.21	2	1.00	V
Asta 68 (42-237)	0.00	2010.62	SLD	CC5	0.00	-237.79	0.00	0.00	-273.58	0.00	0.09	0.21	2	1.15	V
Asta 69 (52-47)	570.00	2010.62	SLD	CC6	0.00	-227.14	0.00	0.00	-273.58	0.00	0.09	0.21	2	1.20	V
Asta 70 (47-77)	444.00	1231.50	SLD	CC11	0.00	64.75	0.00	0.00	68.24	0.00	0.06	0.21	2	1.05	V
Asta 71 (237-47)	524.99	2035.75	SLD	CC3	0.00	-185.63	0.00	0.00	-232.85	0.00	0.08	0.21	2	1.25	V
Asta 72 (67-52)	137.99	1539.38	SLD	CC14	0.00	68.67	0.00	0.00	245.02	0.00	0.06	0.21	2	3.57	V
Asta 73 (82-67)	0.00	1539.38	SLD	CC5	0.00	120.72	0.00	0.00	245.02	0.00	0.06	0.21	2	2.03	V
Asta 74 (102-72)	444.00	1385.44	SLD	CC13	0.00	88.70	0.00	0.00	90.11	0.00	0.08	0.21	2	1.02	V
Asta 75 (72-242)	60.02	1608.50	SLD	CC6	0.00	-168.00	0.00	0.00	-185.55	0.00	0.07	0.21	2	1.10	V
Asta 76 (82-77)	570.00	2010.62	SLD	CC6	0.00	-235.90	0.00	0.00	-273.58	0.00	0.09	0.21	2	1.16	V
Asta 77 (77-107)	444.00	1231.50	SLD	CC14	0.00	-110.60	0.00	0.00	-111.15	0.00	0.10	0.21	2	1.00	V
Asta 78 (242-77)	524.99	1608.50	SLD	CC3	0.00	-182.46	0.00	0.00	-185.55	0.00	0.07	0.21	2	1.02	V
Asta 79 (97-82)	76.00	1539.38	SLD	CC14	0.00	152.42	0.00	0.00	245.02	0.00	0.06	0.21	2	1.61	V
Asta 80 (112-97)	0.00	1539.38	SLD	CC9	0.00	137.82	0.00	0.00	245.02	0.00	0.06	0.21	2	1.78	V
Asta 81 (102-117)	60.03	2035.75	SLD	CC6	0.00	-224.23	0.00	0.00	-232.85	0.00	0.08	0.21	2	1.04	V
Asta 82 (112-107)	570.00	2001.19	SLD	CC8	0.00	-227.31	0.00	0.00	-246.80	0.00	0.08	0.21	2	1.09	V
Asta 83 (122-107)	148.98	1608.50	SLD	CC1	0.00	-157.79	0.00	0.00	-185.55	0.00	0.07	0.21	2	1.18	V
Asta 84 (142-112)	0.00	1539.38	SLD	CC14	0.00	-176.80	0.00	0.00	-245.02	0.00	0.06	0.21	2	1.39	V
Asta 85 (117-122)	630.00	1847.26	SLD	CC1	0.00	-195.01	0.00	0.00	-212.88	0.00	0.08	0.21	2	1.09	V
Asta 86 (117-127)	0.00	1847.26	SLD	CC12	0.00	-158.28	0.00	0.00	-245.95	0.00	0.06	0.21	2	1.55	V
Asta 87 (122-137)	0.00	1231.50	SLD	CC11	0.00	-103.30	0.00	0.00	-143.40	0.00	0.06	0.21	2	1.39	V
Asta 88 (127-132)	630.00	1539.38	SLD	CC8	0.00	115.02	0.00	0.00	245.02	0.00	0.06	0.21	2	2.13	V
Asta 89 (137-132)	300.00	1231.50	SLD	CC16	0.00	-98.75	0.00	0.00	-143.40	0.00	0.06	0.21	2	1.45	V
Asta 90 (132-157)	461.50	1539.38	SLD	CC13	0.00	-178.66	0.00	0.00	-245.02	0.00	0.06	0.21	2	1.37	V
Asta 91 (137-152)	0.00	1231.50	SLD	CC8	0.00	-83.10	0.00	0.00	-143.40	0.00	0.06	0.21	2	1.73	V
Asta 92 (142-147)	300.00	1539.38	SLD	CC14	0.00	-121.37	0.00	0.00	-245.02	0.00	0.06	0.21	2	2.02	V
Asta 93 (152-147)	350.00	1231.50	SLD	CC1	0.00	-101.21	0.00	0.00	-143.40	0.00	0.06	0.21	2	1.42	V
Asta 94 (157-142)	0.00	1539.38	SLD	CC16	0.00	-116.97	0.00	0.00	-245.02	0.00	0.06	0.21	2	2.09	V
Asta 130 (68-53)	208.00	1077.57	SLD	CC11	0.00	-91.26	0.00	0.00	-93.46	0.00	0.12	0.21	2	1.02	V
Asta 131 (63-58)	0.00	769.69	SLD	CC3	0.00	-18.86	0.00	0.00	-28.04	0.00	0.14	0.21	2	1.49	V
Asta 132 (58-68)	0.00	1385.44	SLD	CC3	0.00	-45.64	0.00	0.00	-48.73	0.00	0.20	0.20	3	1.07	V
Asta 133 (88-58)	307.00	615.75	SLD	CC11	0.00	-13.46	0.00	0.00	-19.24	0.00	0.11	0.21	2	1.43	V
Asta 134 (93-63)	307.00	615.75	SLD	CC5	0.00	-14.95	0.00	0.00	-19.24	0.00	0.11	0.21	2	1.29	V
Asta 135 (83-68)	0.00	923.63	SLD	CC11	0.00	36.89	0.00	0.00	39.07	0.00	0.06	0.21	2	1.06	V
Asta 136 (98-83)	0.00	923.63	SLD	CC14	0.00	35.36	0.00	0.00	39.07	0.00	0.06	0.21	2	1.10	V
Asta 137 (88-93)	384.00	769.69	SLD	CC3	0.00	-18.92	0.00	0.00	-28.04	0.00	0.14	0.21	2	1.48	V
Asta 138 (98-88)	386.00	1385.44	SLD	CC3	0.00	-44.40	0.00	0.00	-48.73	0.00	0.20	0.20	3	1.10	V
Asta 139 (113-98)	358.00	923.63	SLD	CC14	0.00	37.40	0.00	0.00	39.07	0.00	0.06	0.21	2	1.04	V
Asta 140 (143-113)	270.00	1231.50	SLD	CC14	0.00	56.10	0.00	0.00	57.82	0.00	0.08	0.21	2	1.03	V
Asta 231 (15-5)	444.00	1077.57	SLD	CC12	0.00	-54.92	0.00	0.00	-63.37	0.00	0.10	0.21	2	1.15	V
Asta 233 (20-10)	413.99	1231.50	SLD	CC11	0.00	-53.87	0.00	0.00	-63.41	0.00	0.10	0.21	2	1.18	V
Asta 236 (30-15)	444.00	1077.57	SLD	CC13	0.00	43.43	0.00	0.00	48.16	0.00	0.08	0.21	2	1.11	V

Asta 238 (35-20)	30.00	1077.57	SLD	CC14	0.00	-37.29	0.00	0.00	-48.16	0.00	0.08	0.21	2	1.29	V
Asta 241 (45-30)	444.00	1077.57	SLD	CC13	0.00	42.85	0.00	0.00	48.16	0.00	0.08	0.21	2	1.12	V
Asta 243 (50-35)	444.00	1077.57	SLD	CC14	0.00	41.71	0.00	0.00	48.16	0.00	0.08	0.21	2	1.15	V
Asta 246 (75-45)	444.00	1077.57	SLD	CC13	0.00	42.65	0.00	0.00	48.16	0.00	0.08	0.21	2	1.13	V
Asta 248 (80-50)	444.00	1077.57	SLD	CC14	0.00	42.52	0.00	0.00	48.16	0.00	0.08	0.21	2	1.13	V
Asta 251 (105-75)	0.00	1077.57	SLD	CC13	0.00	-56.27	0.00	0.00	-63.37	0.00	0.10	0.21	2	1.13	V
Asta 253 (110-80)	413.99	1077.57	SLD	CC14	0.00	43.37	0.00	0.00	48.16	0.00	0.08	0.21	2	1.11	V

1.2.3.4 Taglio SLU

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");

Blocco : Tratto nel quale le staffe vengono mantenute costanti

1 : Estremo iniziale;

2 : Mediano;

3 : Estremo finale;

Ltr : Lunghezza del blocco;

Tagli Sollecitanti

VSd1-3 : Valore del Taglio 1-3 sollecitante di calcolo

(calcolato per soddisfare $V_{Sd} = V_{Ed}$; $V_{Ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);

VSd1-2 : Valore del Taglio 1-2 sollecitante di calcolo

(calcolato per soddisfare $V_{Sd} = V_{Ed}$; $V_{Ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);

$\gamma_{Rd} = 1.1$;

cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;

Tagli Resistenti

VRd1-3 : Valore del Taglio 1-3 resistente di calcolo;

VRd1-2 : Valore del Taglio 1-2 resistente di calcolo;

\emptyset : Diametro della staffa;

Nbr 2 : Numero di bracci di cui è composta la staffa in direzione 2 locale;

Nbr 3 : Numero di bracci di cui è composta la staffa in direzione 3 locale;

Passo : Interasse tra le staffe;

S1-2 : Coefficiente di sicurezza relativo a VSd1-2

S1-3 : Coefficiente di sicurezza relativo a VSd1-3

Esito : V = Verificato; NV = Non Verificato;

Trave	Blocco	Ltr [cm]	\emptyset [mm]	Nbr 2	Nbr 3	Passo [mm]	VSd1-2 [kN]	VSd1-3 [kN]	cot(θ)	VRd1-2 [kN]	VRd1-3 [kN]	S1-2	S1-3	Esito
Asta 7 (16-21)	1	171.00	8.0	2	2	150.0	0.02	12.28	2.50	0.00	162.27	100.00	13.21	V
Asta 7 (16-21)	2	228.00	8.0	2	2	300.0	0.02	7.64	2.50	0.00	81.14	100.00	10.62	V
Asta 7 (16-21)	3	171.00	8.0	2	2	150.0	0.02	16.18	2.50	0.00	162.27	100.00	10.03	V
Asta 10 (21-36)	1	133.20	8.0	2	2	150.0	0.18	22.44	2.50	0.00	162.27	100.00	7.23	V
Asta 10 (21-36)	2	177.60	8.0	2	2	300.0	0.18	15.77	2.50	0.00	81.14	100.00	5.14	V
Asta 10 (21-36)	3	133.20	8.0	2	2	150.0	0.18	6.88	2.50	0.00	162.27	100.00	23.58	V
Asta 13 (31-36)	1	171.00	8.0	2	2	150.0	0.08	13.02	2.50	0.00	162.27	100.00	12.46	V
Asta 13 (31-36)	2	228.00	8.0	2	2	300.0	0.08	6.86	2.50	0.00	81.14	100.00	11.83	V
Asta 13 (31-36)	3	171.00	8.0	2	2	150.0	0.08	15.38	2.50	0.00	162.27	100.00	10.55	V
Asta 16 (36-51)	1	133.20	8.0	2	2	150.0	0.11	18.41	2.50	0.00	162.27	100.00	8.81	V
Asta 16 (36-51)	2	177.60	8.0	2	2	300.0	0.11	11.82	2.50	0.00	81.14	100.00	6.86	V
Asta 16 (36-51)	3	133.20	8.0	2	2	150.0	0.11	3.56	2.50	0.00	162.27	100.00	45.53	V
Asta 19 (46-51)	1	171.00	8.0	2	2	150.0	0.08	16.25	2.50	0.00	162.27	100.00	9.98	V
Asta 19 (46-51)	2	228.00	8.0	2	2	300.0	0.08	7.73	2.50	0.00	81.14	100.00	10.49	V
Asta 19 (46-51)	3	171.00	8.0	2	2	150.0	0.08	12.15	2.50	0.00	162.27	100.00	13.36	V
Asta 22 (66-51)	1	60.90	8.0	2	2	150.0	0.31	7.22	2.50	0.00	162.27	100.00	22.49	V
Asta 22 (66-51)	2	81.20	8.0	2	2	300.0	0.31	4.21	2.50	0.00	81.14	100.00	19.29	V
Asta 22 (66-51)	3	60.90	8.0	2	2	150.0	0.31	3.10	2.50	0.00	162.27	100.00	52.28	V
Asta 24 (56-66)	1	30.00	8.0	2	2	60.0	0.07	41.04	2.50	0.00	181.36	100.00	4.42	V
Asta 24 (56-66)	2	306.00	8.0	2	2	200.0	0.07	39.54	2.50	0.00	121.70	100.00	3.08	V
Asta 24 (56-66)	3	30.00	8.0	2	2	60.0	0.07	24.19	2.50	0.00	181.36	100.00	7.50	V
Asta 27 (81-66)	1	63.30	8.0	2	2	150.0	0.51	6.17	2.50	0.00	162.27	100.00	26.29	V
Asta 27 (81-66)	2	84.40	8.0	2	2	300.0	0.51	10.34	2.50	0.00	81.14	100.00	7.85	V
Asta 27 (81-66)	3	63.30	8.0	2	2	150.0	0.51	13.47	2.50	0.00	162.27	100.00	12.05	V
Asta 30 (76-81)	1	171.00	8.0	2	2	150.0	0.05	18.54	2.50	0.00	162.27	100.00	8.75	V
Asta 30 (76-81)	2	228.00	8.0	2	2	300.0	0.05	10.02	2.50	0.00	81.14	100.00	8.10	V

Asta 30 (76-81)	3	171.00	8.0	2	2	150.0	0.05	9.86	2.50	0.00	162.27	100.00	16.46	V
Asta 33 (96-81)	-	61.00	8.0	2	2	60.0	1.95	20.88	2.50	0.00	181.36	100.00	8.69	V
Asta 35 (86-96)	1	109.80	8.0	2	2	150.0	0.07	41.76	2.50	0.00	162.27	100.00	3.89	V
Asta 35 (86-96)	2	146.40	8.0	2	2	300.0	0.07	36.25	2.50	0.00	81.14	100.00	2.24	V
Asta 35 (86-96)	3	109.80	8.0	2	2	150.0	0.07	28.91	2.50	0.00	162.27	100.00	5.61	V
Asta 36 (111-96)	1	105.90	8.0	2	2	150.0	0.18	16.95	2.50	0.00	162.27	100.00	9.57	V
Asta 36 (111-96)	2	141.20	8.0	2	2	300.0	0.18	11.71	2.50	0.00	81.14	100.00	6.93	V
Asta 36 (111-96)	3	105.90	8.0	2	2	150.0	0.18	4.73	2.50	0.00	162.27	100.00	34.33	V
Asta 38 (106-111)	1	171.00	8.0	2	2	150.0	0.04	12.39	2.50	0.00	162.27	100.00	13.10	V
Asta 38 (106-111)	2	228.00	8.0	2	2	300.0	0.04	7.49	2.50	0.00	81.14	100.00	10.84	V
Asta 38 (106-111)	3	171.00	8.0	2	2	150.0	0.04	16.00	2.50	0.00	162.27	100.00	10.14	V
Asta 40 (111-141)	1	90.00	8.0	2	2	150.0	0.60	10.11	2.50	0.00	162.27	100.00	16.05	V
Asta 40 (111-141)	2	120.00	8.0	2	2	300.0	0.60	16.05	2.50	0.00	81.14	100.00	5.06	V
Asta 40 (111-141)	3	90.00	8.0	2	2	150.0	0.60	20.50	2.50	0.00	162.27	100.00	7.92	V
Asta 42 (126-116)	1	184.50	8.0	2	2	150.0	0.14	15.12	2.50	0.00	162.27	100.00	10.73	V
Asta 42 (126-116)	2	246.00	8.0	2	2	300.0	0.14	6.62	2.50	0.00	81.14	100.00	12.25	V
Asta 42 (126-116)	3	184.50	8.0	2	2	150.0	0.14	15.94	2.50	0.00	162.27	100.00	10.18	V
Asta 43 (121-136)	1	85.50	8.0	2	2	150.0	1.61	12.95	2.50	0.00	162.27	100.00	12.53	V
Asta 43 (121-136)	2	114.00	8.0	2	2	300.0	1.61	8.61	2.50	0.00	81.14	100.00	9.42	V
Asta 43 (121-136)	3	85.50	8.0	2	2	150.0	1.61	2.82	2.50	0.00	162.27	100.00	57.53	V
Asta 44 (131-126)	1	189.00	8.0	2	2	150.0	0.12	15.30	2.50	0.00	162.27	100.00	10.61	V
Asta 44 (131-126)	2	252.00	8.0	2	2	300.0	0.12	6.71	2.50	0.00	81.14	100.00	12.10	V
Asta 44 (131-126)	3	189.00	8.0	2	2	150.0	0.12	16.14	2.50	0.00	162.27	100.00	10.06	V
Asta 45 (136-131)	1	90.00	8.0	2	2	150.0	0.74	8.43	2.50	0.00	162.27	100.00	19.25	V
Asta 45 (136-131)	2	120.00	8.0	2	2	300.0	0.74	14.44	2.50	0.00	81.14	100.00	5.62	V
Asta 45 (136-131)	3	90.00	8.0	2	2	150.0	0.74	18.95	2.50	0.00	162.27	100.00	8.56	V
Asta 46 (156-131)	1	138.45	8.0	2	2	150.0	0.02	14.65	2.50	0.00	162.27	100.00	11.08	V
Asta 46 (156-131)	2	184.60	8.0	2	2	300.0	0.02	7.79	2.50	0.00	81.14	100.00	10.41	V
Asta 46 (156-131)	3	138.45	8.0	2	2	150.0	0.02	8.20	2.50	0.00	162.27	100.00	19.80	V
Asta 47 (136-151)	1	137.70	8.0	2	2	150.0	0.06	9.18	2.50	0.00	162.27	100.00	17.67	V
Asta 47 (136-151)	2	183.60	8.0	2	2	300.0	0.06	6.85	2.50	0.00	81.14	100.00	11.84	V
Asta 47 (136-151)	3	137.70	8.0	2	2	150.0	0.06	13.72	2.50	0.00	162.27	100.00	11.82	V
Asta 49 (151-141)	1	100.50	8.0	2	2	150.0	1.00	10.46	2.50	0.00	162.27	100.00	15.52	V
Asta 49 (151-141)	2	134.00	8.0	2	2	300.0	1.00	17.24	2.50	0.00	81.14	100.00	4.71	V
Asta 49 (151-141)	3	100.50	8.0	2	2	150.0	1.00	22.32	2.50	0.00	162.27	100.00	7.27	V
Asta 51 (12-2)	1	40.00	8.0	2	2	90.0	0.95	20.81	2.50	0.00	247.31	100.00	11.88	V
Asta 51 (12-2)	2	364.00	8.0	2	2	200.0	0.95	35.35	2.50	0.00	165.96	100.00	4.70	V
Asta 51 (12-2)	3	40.00	8.0	2	2	90.0	0.95	40.78	2.50	0.00	247.31	100.00	6.06	V
Asta 52 (2-222)	1	60.00	8.0	2	2	80.0	0.77	130.66	2.50	0.00	379.20	100.00	2.90	V
Asta 52 (2-222)	2	465.00	8.0	2	2	150.0	0.77	106.39	2.50	0.00	339.29	100.00	3.19	V
Asta 52 (2-222)	3	60.00	8.0	2	2	80.0	0.77	106.05	2.50	0.00	379.20	100.00	3.58	V
Asta 53 (7-17)	1	40.00	8.0	2	2	90.0	0.37	53.95	2.50	0.00	247.31	100.00	4.58	V
Asta 53 (7-17)	2	364.00	8.0	2	2	200.0	0.37	48.52	2.50	0.00	165.96	100.00	3.42	V
Asta 53 (7-17)	3	40.00	8.0	2	2	90.0	0.37	8.78	2.50	0.00	247.31	100.00	28.18	V
Asta 54 (222-7)	1	60.00	8.0	2	2	80.0	0.42	101.80	2.50	0.00	379.20	100.00	3.72	V
Asta 54 (222-7)	2	465.00	8.0	2	2	150.0	0.42	110.63	2.50	0.00	339.29	100.00	3.07	V
Asta 54 (222-7)	3	60.00	8.0	2	2	80.0	0.42	134.91	2.50	0.00	379.20	100.00	2.81	V
Asta 55 (27-12)	1	40.00	8.0	2	2	90.0	0.46	30.85	2.50	0.00	247.31	100.00	8.02	V
Asta 55 (27-12)	2	364.00	8.0	2	2	200.0	0.46	25.46	2.50	0.00	165.96	100.00	6.52	V
Asta 55 (27-12)	3	40.00	8.0	2	2	90.0	0.46	29.10	2.50	0.00	247.31	100.00	8.50	V
Asta 56 (12-227)	1	60.00	8.0	2	2	80.0	0.80	240.31	2.50	0.00	379.20	100.00	1.58	V
Asta 56 (12-227)	2	465.00	8.0	2	2	150.0	0.80	196.65	2.50	0.00	339.29	100.00	1.73	V
Asta 56 (12-227)	3	60.00	8.0	2	2	80.0	0.80	185.37	2.50	0.00	379.20	100.00	2.05	V
Asta 57 (22-17)	1	80.00	8.0	2	2	80.0	1.02	124.54	2.50	0.00	511.10	100.00	4.10	V
Asta 57 (22-17)	2	410.00	8.0	2	2	150.0	1.02	119.14	2.50	0.00	457.31	100.00	3.84	V
Asta 57 (22-17)	3	80.00	8.0	2	2	80.0	1.02	158.93	2.50	0.00	511.10	100.00	3.22	V
Asta 58 (17-32)	1	40.00	8.0	2	2	90.0	0.57	36.35	2.50	0.00	247.31	100.00	6.80	V
Asta 58 (17-32)	2	364.00	8.0	2	2	200.0	0.57	30.96	2.50	0.00	165.96	100.00	5.36	V
Asta 58 (17-32)	3	40.00	8.0	2	2	90.0	0.57	24.36	2.50	0.00	247.31	100.00	10.15	V
Asta 59 (227-17)	1	60.00	8.0	2	2	80.0	0.07	175.26	2.50	0.00	379.20	100.00	2.16	V
Asta 59 (227-17)	2	465.00	8.0	2	2	150.0	0.07	203.00	2.50	0.00	339.29	100.00	1.67	V
Asta 59 (227-17)	3	60.00	8.0	2	2	80.0	0.07	246.23	2.50	0.00	379.20	100.00	1.54	V
Asta 60 (37-22)	1	80.00	8.0	2	2	80.0	0.90	9.53	2.50	0.00	511.10	100.00	53.65	V
Asta 60 (37-22)	2	284.00	8.0	2	2	150.0	0.90	58.65	2.50	0.00	457.31	100.00	7.80	V
Asta 60 (37-22)	3	80.00	8.0	2	2	80.0	0.90	72.76	2.50	0.00	511.10	100.00	7.02	V
Asta 61 (42-27)	1	40.00	8.0	2	2	90.0	0.10	30.89	2.50	0.00	247.31	100.00	8.01	V
Asta 61 (42-27)	2	364.00	8.0	2	2	200.0	0.10	25.50	2.50	0.00	165.96	100.00	6.51	V
Asta 61 (42-27)	3	40.00	8.0	2	2	90.0	0.10	29.08	2.50	0.00	247.31	100.00	8.51	V
Asta 62 (27-232)	1	60.00	8.0	2	2	80.0	0.25	234.11	2.50	0.00	379.20	100.00	1.62	V

Asta 62 (27-232)	2	465.00	8.0	2	2	150.0	0.25	190.45	2.50	0.00	339.29	100.00	1.78	V
Asta 62 (27-232)	3	60.00	8.0	2	2	80.0	0.25	191.56	2.50	0.00	379.20	100.00	1.98	V
Asta 63 (37-32)	1	60.00	8.0	2	2	80.0	1.72	184.72	2.50	0.00	379.20	100.00	2.05	V
Asta 63 (37-32)	2	450.00	8.0	2	2	150.0	1.72	184.61	2.50	0.00	339.29	100.00	1.84	V
Asta 63 (37-32)	3	60.00	8.0	2	2	80.0	1.72	228.05	2.50	0.00	379.20	100.00	1.66	V
Asta 64 (32-47)	1	40.00	8.0	2	2	90.0	1.30	31.00	2.50	0.00	247.31	100.00	7.98	V
Asta 64 (32-47)	2	364.00	8.0	2	2	200.0	1.30	25.61	2.50	0.00	165.96	100.00	6.48	V
Asta 64 (32-47)	3	40.00	8.0	2	2	90.0	1.30	28.87	2.50	0.00	247.31	100.00	8.57	V
Asta 65 (232-32)	1	60.00	8.0	2	2	80.0	0.09	176.92	2.50	0.00	379.20	100.00	2.14	V
Asta 65 (232-32)	2	465.00	8.0	2	2	150.0	0.09	201.23	2.50	0.00	339.29	100.00	1.69	V
Asta 65 (232-32)	3	60.00	8.0	2	2	80.0	0.09	244.45	2.50	0.00	379.20	100.00	1.55	V
Asta 66 (52-37)	1	80.00	8.0	2	2	80.0	1.12	22.05	2.50	0.00	511.10	100.00	23.18	V
Asta 66 (52-37)	2	284.00	8.0	2	2	150.0	1.12	42.31	2.50	0.00	457.31	100.00	10.81	V
Asta 66 (52-37)	3	80.00	8.0	2	2	80.0	1.12	56.30	2.50	0.00	511.10	100.00	9.08	V
Asta 67 (72-42)	1	40.00	8.0	2	2	90.0	0.47	30.69	2.50	0.00	247.31	100.00	8.06	V
Asta 67 (72-42)	2	364.00	8.0	2	2	200.0	0.47	25.30	2.50	0.00	165.96	100.00	6.56	V
Asta 67 (72-42)	3	40.00	8.0	2	2	90.0	0.47	29.25	2.50	0.00	247.31	100.00	8.45	V
Asta 68 (42-237)	1	60.00	8.0	2	2	80.0	0.19	233.66	2.50	0.00	379.20	100.00	1.62	V
Asta 68 (42-237)	2	465.00	8.0	2	2	150.0	0.19	190.00	2.50	0.00	339.29	100.00	1.79	V
Asta 68 (42-237)	3	60.00	8.0	2	2	80.0	0.19	192.01	2.50	0.00	379.20	100.00	1.97	V
Asta 69 (52-47)	1	60.00	8.0	2	2	80.0	3.05	177.29	2.50	0.00	379.20	100.00	2.14	V
Asta 69 (52-47)	2	450.00	8.0	2	2	150.0	3.05	192.03	2.50	0.00	339.29	100.00	1.77	V
Asta 69 (52-47)	3	60.00	8.0	2	2	80.0	3.05	235.48	2.50	0.00	379.20	100.00	1.61	V
Asta 70 (47-77)	1	40.00	8.0	2	2	90.0	2.19	30.24	2.50	0.00	247.31	100.00	8.18	V
Asta 70 (47-77)	2	364.00	8.0	2	2	200.0	2.19	24.85	2.50	0.00	165.96	100.00	6.68	V
Asta 70 (47-77)	3	40.00	8.0	2	2	90.0	2.19	29.71	2.50	0.00	247.31	100.00	8.32	V
Asta 71 (237-47)	1	60.00	8.0	2	2	80.0	0.03	177.39	2.50	0.00	379.20	100.00	2.14	V
Asta 71 (237-47)	2	465.00	8.0	2	2	150.0	0.03	200.76	2.50	0.00	339.29	100.00	1.69	V
Asta 71 (237-47)	3	60.00	8.0	2	2	80.0	0.03	243.98	2.50	0.00	379.20	100.00	1.55	V
Asta 72 (67-52)	1	80.00	8.0	2	2	80.0	3.00	28.18	2.50	0.00	511.10	100.00	18.14	V
Asta 72 (67-52)	2	58.00	8.0	2	2	150.0	3.00	35.83	2.50	0.00	457.31	100.00	12.76	V
Asta 72 (67-52)	3	80.00	8.0	2	2	80.0	3.00	46.37	2.50	0.00	511.10	100.00	11.02	V
Asta 73 (82-67)	1	80.00	8.0	2	2	80.0	3.00	12.66	2.50	0.00	511.10	100.00	40.37	V
Asta 73 (82-67)	2	66.00	8.0	2	2	150.0	3.00	7.08	2.50	0.00	457.31	100.00	64.61	V
Asta 73 (82-67)	3	80.00	8.0	2	2	80.0	3.00	17.63	2.50	0.00	511.10	100.00	28.99	V
Asta 74 (102-72)	1	40.00	8.0	2	2	90.0	1.78	37.41	2.50	0.00	247.31	100.00	6.61	V
Asta 74 (102-72)	2	364.00	8.0	2	2	200.0	1.78	31.97	2.50	0.00	165.96	100.00	5.19	V
Asta 74 (102-72)	3	40.00	8.0	2	2	90.0	1.78	23.99	2.50	0.00	247.31	100.00	10.31	V
Asta 75 (72-242)	1	60.00	8.0	2	2	80.0	0.63	237.45	2.50	0.00	379.20	100.00	1.60	V
Asta 75 (72-242)	2	465.00	8.0	2	2	150.0	0.63	193.79	2.50	0.00	339.29	100.00	1.75	V
Asta 75 (72-242)	3	60.00	8.0	2	2	80.0	0.63	188.22	2.50	0.00	379.20	100.00	2.01	V
Asta 76 (82-77)	1	60.00	8.0	2	2	80.0	3.14	178.05	2.50	0.00	379.20	100.00	2.13	V
Asta 76 (82-77)	2	450.00	8.0	2	2	150.0	3.14	191.27	2.50	0.00	339.29	100.00	1.77	V
Asta 76 (82-77)	3	60.00	8.0	2	2	80.0	3.14	234.72	2.50	0.00	379.20	100.00	1.62	V
Asta 77 (77-107)	1	40.00	8.0	2	2	90.0	1.36	21.97	2.50	0.00	247.31	100.00	11.26	V
Asta 77 (77-107)	2	364.00	8.0	2	2	200.0	1.36	34.12	2.50	0.00	165.96	100.00	4.86	V
Asta 77 (77-107)	3	40.00	8.0	2	2	90.0	1.36	39.55	2.50	0.00	247.31	100.00	6.25	V
Asta 78 (242-77)	1	60.00	8.0	2	2	80.0	0.01	179.19	2.50	0.00	379.20	100.00	2.12	V
Asta 78 (242-77)	2	465.00	8.0	2	2	150.0	0.01	198.96	2.50	0.00	339.29	100.00	1.71	V
Asta 78 (242-77)	3	60.00	8.0	2	2	80.0	0.01	242.18	2.50	0.00	379.20	100.00	1.57	V
Asta 79 (97-82)	-	76.00	8.0	2	2	80.0	0.74	19.30	2.50	511.10	511.10	100.00	26.48	V
Asta 80 (112-97)	1	80.00	8.0	2	2	80.0	0.74	39.99	2.50	0.00	511.10	100.00	12.78	V
Asta 80 (112-97)	2	208.00	8.0	2	2	150.0	0.74	29.35	2.50	0.00	457.31	100.00	15.58	V
Asta 80 (112-97)	3	80.00	8.0	2	2	80.0	0.74	9.66	2.50	0.00	511.10	100.00	52.91	V
Asta 81 (102-117)	1	60.00	8.0	2	2	80.0	4.61	207.46	2.50	0.00	379.20	100.00	1.83	V
Asta 81 (102-117)	2	181.00	8.0	2	2	150.0	4.61	178.64	2.50	0.00	339.29	100.00	1.90	V
Asta 81 (102-117)	3	60.00	8.0	2	2	80.0	4.61	91.69	2.50	0.00	379.20	100.00	4.14	V
Asta 82 (112-107)	1	60.00	8.0	2	2	80.0	5.80	164.32	2.50	0.00	379.20	100.00	2.31	V
Asta 82 (112-107)	2	450.00	8.0	2	2	150.0	5.80	151.68	2.50	0.00	339.29	100.00	2.24	V
Asta 82 (112-107)	3	60.00	8.0	2	2	80.0	5.80	188.85	2.50	0.00	379.20	100.00	2.01	V
Asta 83 (122-107)	1	60.00	8.0	2	2	80.0	6.05	64.15	2.50	0.00	379.20	100.00	5.91	V
Asta 83 (122-107)	2	89.00	8.0	2	2	150.0	6.05	124.76	2.50	0.00	339.29	100.00	2.72	V
Asta 83 (122-107)	3	60.00	8.0	2	2	80.0	6.05	165.62	2.50	0.00	379.20	100.00	2.29	V
Asta 84 (142-112)	1	80.00	8.0	2	2	80.0	13.56	119.11	2.50	0.00	511.10	100.00	4.29	V
Asta 84 (142-112)	2	140.00	8.0	2	2	150.0	13.56	110.36	2.50	0.00	457.31	100.00	4.14	V
Asta 84 (142-112)	3	80.00	8.0	2	2	80.0	13.56	95.05	2.50	0.00	511.10	100.00	5.38	V
Asta 85 (117-122)	1	60.00	8.0	2	2	80.0	3.68	128.08	2.50	0.00	379.20	100.00	2.96	V
Asta 85 (117-122)	2	510.00	8.0	2	2	150.0	3.68	144.28	2.50	0.00	339.29	100.00	2.35	V
Asta 85 (117-122)	3	60.00	8.0	2	2	80.0	3.68	172.95	2.50	0.00	379.20	100.00	2.19	V

Asta 86 (117-127)	1	80.00	8.0	2	2	80.0	4.96	193.38	2.50	0.00	511.10	100.00	2.64	V
Asta 86 (117-127)	2	470.00	8.0	2	2	150.0	4.96	145.50	2.50	0.00	457.31	100.00	3.14	V
Asta 86 (117-127)	3	80.00	8.0	2	2	80.0	4.96	183.63	2.50	0.00	511.10	100.00	2.78	V
Asta 87 (122-137)	1	60.00	8.0	2	2	80.0	8.99	96.75	2.50	0.00	379.20	100.00	3.92	V
Asta 87 (122-137)	2	180.00	8.0	2	2	150.0	8.99	64.39	2.50	0.00	339.29	100.00	5.27	V
Asta 87 (122-137)	3	60.00	8.0	2	2	80.0	8.99	65.07	2.50	0.00	379.20	100.00	5.83	V
Asta 88 (127-132)	1	80.00	8.0	2	2	80.0	3.21	60.13	2.50	0.00	511.10	100.00	8.50	V
Asta 88 (127-132)	2	470.00	8.0	2	2	150.0	3.21	49.12	2.50	0.00	457.31	100.00	9.31	V
Asta 88 (127-132)	3	80.00	8.0	2	2	80.0	3.21	27.98	2.50	0.00	511.10	100.00	18.27	V
Asta 89 (137-132)	1	60.00	8.0	2	2	80.0	4.91	63.40	2.50	0.00	379.20	100.00	5.98	V
Asta 89 (137-132)	2	180.00	8.0	2	2	150.0	4.91	74.74	2.50	0.00	339.29	100.00	4.54	V
Asta 89 (137-132)	3	60.00	8.0	2	2	80.0	4.91	109.28	2.50	0.00	379.20	100.00	3.47	V
Asta 90 (132-157)	1	80.00	8.0	2	2	80.0	2.76	42.78	2.50	0.00	511.10	100.00	11.95	V
Asta 90 (132-157)	2	301.50	8.0	2	2	150.0	2.76	72.40	2.50	0.00	457.31	100.00	6.32	V
Asta 90 (132-157)	3	80.00	8.0	2	2	80.0	2.76	80.26	2.50	0.00	511.10	100.00	6.37	V
Asta 91 (137-152)	1	60.00	8.0	2	2	80.0	4.52	75.38	2.50	0.00	379.20	100.00	5.03	V
Asta 91 (137-152)	2	339.00	8.0	2	2	150.0	4.52	58.47	2.50	0.00	339.29	100.00	5.80	V
Asta 91 (137-152)	3	60.00	8.0	2	2	80.0	4.52	78.59	2.50	0.00	379.20	100.00	4.82	V
Asta 92 (142-147)	1	80.00	8.0	2	2	80.0	2.44	6.73	2.50	0.00	511.10	100.00	75.93	V
Asta 92 (142-147)	2	140.00	8.0	2	2	150.0	2.44	15.15	2.50	0.00	457.31	100.00	30.18	V
Asta 92 (142-147)	3	80.00	8.0	2	2	80.0	2.44	23.11	2.50	0.00	511.10	100.00	22.12	V
Asta 93 (152-142)	1	60.00	8.0	2	2	80.0	1.67	36.68	2.50	0.00	379.20	100.00	10.34	V
Asta 93 (152-142)	2	230.00	8.0	2	2	150.0	1.67	60.49	2.50	0.00	339.29	100.00	5.61	V
Asta 93 (152-142)	3	60.00	8.0	2	2	80.0	1.67	80.59	2.50	0.00	379.20	100.00	4.71	V
Asta 94 (157-147)	1	80.00	8.0	2	2	80.0	1.73	43.26	2.50	0.00	511.10	100.00	11.81	V
Asta 94 (157-147)	2	192.50	8.0	2	2	150.0	1.73	35.32	2.50	0.00	457.31	100.00	12.95	V
Asta 94 (157-147)	3	80.00	8.0	2	2	80.0	1.73	16.21	2.50	0.00	511.10	100.00	31.53	V
Asta 130 (68-53)	1	35.00	8.0	2	2	80.0	7.02	20.66	2.50	0.00	178.61	100.00	8.65	V
Asta 130 (68-53)	2	138.00	8.0	2	2	200.0	7.02	46.56	2.50	0.00	143.83	100.00	3.09	V
Asta 130 (68-53)	3	35.00	8.0	2	2	80.0	7.02	53.13	2.50	0.00	178.61	100.00	3.36	V
Asta 131 (63-58)	1	20.00	8.0	2	2	40.0	0.33	33.92	2.50	0.00	96.17	100.00	2.84	V
Asta 131 (63-58)	2	344.00	8.0	2	2	140.0	0.33	35.77	2.50	0.00	96.17	100.00	2.69	V
Asta 131 (63-58)	3	20.00	8.0	2	2	40.0	0.33	39.42	2.50	0.00	96.17	100.00	2.44	V
Asta 132 (58-68)	1	20.00	8.0	2	2	40.0	1.39	55.63	2.50	0.00	96.17	100.00	1.73	V
Asta 132 (58-68)	2	346.00	8.0	2	2	140.0	1.39	51.66	2.50	0.00	96.17	100.00	1.86	V
Asta 132 (58-68)	3	20.00	8.0	2	2	40.0	1.39	18.37	2.50	0.00	96.17	100.00	5.23	V
Asta 133 (88-58)	1	20.00	8.0	2	2	40.0	1.79	4.14	2.50	0.00	96.17	100.00	23.25	V
Asta 133 (88-58)	2	267.00	8.0	2	2	140.0	1.79	5.56	2.50	0.00	96.17	100.00	17.28	V
Asta 133 (88-58)	3	20.00	8.0	2	2	40.0	1.79	6.24	2.50	0.00	96.17	100.00	15.41	V
Asta 134 (93-63)	1	20.00	8.0	2	2	40.0	0.53	4.72	2.50	0.00	96.17	100.00	20.38	V
Asta 134 (93-63)	2	267.00	8.0	2	2	140.0	0.53	5.05	2.50	0.00	96.17	100.00	19.06	V
Asta 134 (93-63)	3	20.00	8.0	2	2	40.0	0.53	5.73	2.50	0.00	96.17	100.00	16.80	V
Asta 135 (83-68)	1	35.00	8.0	2	2	80.0	9.87	35.31	2.50	0.00	178.61	100.00	5.06	V
Asta 135 (83-68)	2	146.00	8.0	2	2	200.0	9.87	31.15	2.50	0.00	143.83	100.00	4.62	V
Asta 135 (83-68)	3	35.00	8.0	2	2	80.0	9.87	13.80	2.50	0.00	178.61	100.00	12.95	V
Asta 136 (98-83)	-	66.00	8.0	2	2	80.0	17.26	57.10	2.50	178.61	178.61	100.00	3.13	V
Asta 137 (88-93)	1	20.00	8.0	2	2	40.0	0.36	40.40	2.50	0.00	96.17	100.00	2.38	V
Asta 137 (88-93)	2	344.00	8.0	2	2	140.0	0.36	36.42	2.50	0.00	96.17	100.00	2.64	V
Asta 137 (88-93)	3	20.00	8.0	2	2	40.0	0.36	32.87	2.50	0.00	96.17	100.00	2.93	V
Asta 138 (98-88)	1	20.00	8.0	2	2	40.0	1.16	20.70	2.50	0.00	96.17	100.00	4.65	V
Asta 138 (98-88)	2	346.00	8.0	2	2	140.0	1.16	49.65	2.50	0.00	96.17	100.00	1.94	V
Asta 138 (98-88)	3	20.00	8.0	2	2	40.0	1.16	53.36	2.50	0.00	96.17	100.00	1.80	V
Asta 139 (113-98)	1	35.00	8.0	2	2	80.0	3.52	46.98	2.50	0.00	178.61	100.00	3.80	V
Asta 139 (113-98)	2	288.00	8.0	2	2	200.0	3.52	40.61	2.50	0.00	143.83	100.00	3.54	V
Asta 139 (113-98)	3	35.00	8.0	2	2	80.0	3.52	18.77	2.50	0.00	178.61	100.00	9.52	V
Asta 140 (143-113)	1	35.00	8.0	2	2	80.0	4.04	33.03	2.50	0.00	178.61	100.00	5.41	V
Asta 140 (143-113)	2	235.00	8.0	2	2	200.0	4.04	31.39	2.50	0.00	143.83	100.00	4.58	V
Asta 140 (143-113)	3	35.00	8.0	2	2	80.0	4.04	20.36	2.50	0.00	178.61	100.00	8.77	V
Asta 231 (15-5)	1	133.20	8.0	2	2	150.0	3.05	2.40	2.50	0.00	162.27	100.00	67.54	V
Asta 231 (15-5)	2	177.60	8.0	2	2	300.0	3.05	7.25	2.50	0.00	81.14	100.00	11.19	V
Asta 231 (15-5)	3	133.20	8.0	2	2	150.0	3.05	11.18	2.50	0.00	162.27	100.00	14.52	V
Asta 233 (20-10)	1	133.20	8.0	2	2	150.0	2.63	7.17	2.50	0.00	162.27	100.00	22.62	V
Asta 233 (20-10)	2	177.60	8.0	2	2	300.0	2.63	12.41	2.50	0.00	81.14	100.00	6.54	V
Asta 233 (20-10)	3	133.20	8.0	2	2	150.0	2.63	16.34	2.50	0.00	162.27	100.00	9.93	V
Asta 236 (30-15)	1	30.00	8.0	2	2	60.0	2.64	7.43	2.50	0.00	181.36	100.00	24.39	V
Asta 236 (30-15)	2	384.00	8.0	2	2	200.0	2.64	6.56	2.50	0.00	121.70	100.00	18.56	V
Asta 236 (30-15)	3	30.00	8.0	2	2	60.0	2.64	5.64	2.50	0.00	181.36	100.00	32.18	V
Asta 238 (35-20)	1	30.00	8.0	2	2	60.0	2.31	4.90	2.50	0.00	181.36	100.00	37.00	V
Asta 238 (35-20)	2	384.00	8.0	2	2	200.0	2.31	7.52	2.50	0.00	121.70	100.00	16.17	V

Asta 238 (35-20)	3	30.00	8.0	2	2	60.0	2.31	8.40	2.50	0.00	181.36	100.00	21.58	V
Asta 241 (45-30)	1	30.00	8.0	2	2	60.0	0.09	7.38	2.50	0.00	181.36	100.00	24.59	V
Asta 241 (45-30)	2	384.00	8.0	2	2	200.0	0.09	6.50	2.50	0.00	121.70	100.00	18.73	V
Asta 241 (45-30)	3	30.00	8.0	2	2	60.0	0.09	5.70	2.50	0.00	181.36	100.00	31.82	V
Asta 243 (50-35)	1	30.00	8.0	2	2	60.0	0.21	7.36	2.50	0.00	181.36	100.00	24.63	V
Asta 243 (50-35)	2	384.00	8.0	2	2	200.0	0.21	6.49	2.50	0.00	121.70	100.00	18.76	V
Asta 243 (50-35)	3	30.00	8.0	2	2	60.0	0.21	5.72	2.50	0.00	181.36	100.00	31.68	V
Asta 246 (75-45)	1	30.00	8.0	2	2	60.0	1.66	7.23	2.50	0.00	181.36	100.00	25.08	V
Asta 246 (75-45)	2	384.00	8.0	2	2	200.0	1.66	6.35	2.50	0.00	121.70	100.00	19.16	V
Asta 246 (75-45)	3	30.00	8.0	2	2	60.0	1.66	5.84	2.50	0.00	181.36	100.00	31.06	V
Asta 248 (80-50)	1	30.00	8.0	2	2	60.0	2.16	8.16	2.50	0.00	181.36	100.00	22.21	V
Asta 248 (80-50)	2	384.00	8.0	2	2	200.0	2.16	7.29	2.50	0.00	121.70	100.00	16.70	V
Asta 248 (80-50)	3	30.00	8.0	2	2	60.0	2.16	5.02	2.50	0.00	181.36	100.00	36.11	V
Asta 251 (105-75)	1	30.00	8.0	2	2	60.0	2.75	10.05	2.50	0.00	181.36	100.00	18.04	V
Asta 251 (105-75)	2	384.00	8.0	2	2	200.0	2.75	9.17	2.50	0.00	121.70	100.00	13.28	V
Asta 251 (105-75)	3	30.00	8.0	2	2	60.0	2.75	3.45	2.50	0.00	181.36	100.00	52.53	V
Asta 253 (110-80)	1	30.00	8.0	2	2	60.0	2.30	13.57	2.50	0.00	181.36	100.00	13.37	V
Asta 253 (110-80)	2	384.00	8.0	2	2	200.0	2.30	12.68	2.50	0.00	121.70	100.00	9.60	V
Asta 253 (110-80)	3	30.00	8.0	2	2	60.0	2.30	1.36	2.50	0.00	181.36	100.00	100.00	V

1.2.3.5 Verifica Taglio CAM in SLV

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");

Blocco : Tratto nel quale le staffe vengono mantenute costanti

1 : Estremo iniziale;

2 : Mediano;

3 : Estremo finale;

Ltr : Lunghezza del blocco;

Tagli Sollecitanti

Vsd1-3 : Valore del Taglio 1-3 sollecitante di calcolo

(calcolato per soddisfare $V_{sd} = V_{ed}$; $V_{ed} = \gamma_{rd} (M_{C,Rdsup} + M_{C,Rdinf}) / I_p$);

Vsd1-2 : Valore del Taglio 1-2 sollecitante di calcolo

(calcolato per soddisfare $V_{sd} = V_{ed}$; $V_{ed} = \gamma_{rd} (M_{C,Rdsup} + M_{C,Rdinf}) / I_p$);

$\gamma_{rd} = 1.1$;

cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;

Tagli Resistenti

VRd1-3 : Valore del Taglio 1-3 resistente di calcolo;

VRd1-2 : Valore del Taglio 1-2 resistente di calcolo;

\emptyset : Diametro della staffa;

Nbr 2 : Numero di bracci di cui è composta la staffa in direzione 2 locale;

Nbr 3 : Numero di bracci di cui è composta la staffa in direzione 3 locale;

Passo : Interasse tra le staffe;

S1-2 : Coefficiente di sicurezza relativo a VSd1-2

S1-3 : Coefficiente di sicurezza relativo a VSd1-3

Esito : V = Verificato; NV = Non Verificato;

Trave	Blocco	Ltr [cm]	\emptyset [mm]	Nbr 2	Nbr 3	Passo [mm]	Vsd1-2 [kN]	Vsd1-3 [kN]	cot(θ)	Vrd1-2 [kN]	Vrd1-3 [kN]	S1-2	S1-3	Esito
Asta 7 (16-21)	1	171.00	8.0	2	2	150.0	0.30	27.38	2.50	0.00	162.27	100.00	5.93	V
Asta 7 (16-21)	2	228.00	8.0	2	2	300.0	0.30	18.06	2.50	0.00	81.14	100.00	4.49	V
Asta 7 (16-21)	3	171.00	8.0	2	2	150.0	0.30	28.91	2.50	0.00	162.27	100.00	5.61	V
Asta 10 (21-36)	1	133.20	8.0	2	2	150.0	0.28	40.81	2.50	0.00	162.27	100.00	3.98	V
Asta 10 (21-36)	2	177.60	8.0	2	2	300.0	0.28	24.85	2.50	0.00	81.14	100.00	3.27	V
Asta 10 (21-36)	3	133.20	8.0	2	2	150.0	0.28	27.96	2.50	0.00	162.27	100.00	5.80	V
Asta 13 (31-36)	1	171.00	8.0	2	2	150.0	0.36	27.95	2.50	0.00	162.27	100.00	5.81	V
Asta 13 (31-36)	2	228.00	8.0	2	2	300.0	0.36	14.31	2.50	0.00	81.14	100.00	5.67	V
Asta 13 (31-36)	3	171.00	8.0	2	2	150.0	0.36	28.17	2.50	0.00	162.27	100.00	5.76	V
Asta 16 (36-51)	1	133.20	8.0	2	2	150.0	0.77	35.91	2.50	0.00	162.27	100.00	4.52	V
Asta 16 (36-51)	2	177.60	8.0	2	2	300.0	0.77	23.18	2.50	0.00	81.14	100.00	3.50	V
Asta 16 (36-51)	3	133.20	8.0	2	2	150.0	0.77	27.06	2.50	0.00	162.27	100.00	6.00	V
Asta 19 (46-51)	1	171.00	8.0	2	2	150.0	0.55	29.88	2.50	0.00	162.27	100.00	5.43	V
Asta 19 (46-51)	2	228.00	8.0	2	2	300.0	0.55	15.33	2.50	0.00	81.14	100.00	5.29	V

Asta 19 (46-51)	3	171.00	8.0	2	2	150.0	0.55	26.24	2.50	0.00	162.27	100.00	6.18	V
Asta 22 (66-51)	1	60.90	8.0	2	2	150.0	6.42	50.31	2.50	0.00	162.27	100.00	3.23	V
Asta 22 (66-51)	2	81.20	8.0	2	2	300.0	6.42	12.88	2.50	0.00	81.14	100.00	6.30	V
Asta 22 (66-51)	3	60.90	8.0	2	2	150.0	6.42	49.28	2.50	0.00	162.27	100.00	3.29	V
Asta 24 (56-66)	1	30.00	8.0	2	2	60.0	1.53	70.35	2.50	0.00	181.36	100.00	2.58	V
Asta 24 (56-66)	2	306.00	8.0	2	2	200.0	1.53	28.18	2.50	0.00	121.70	100.00	4.32	V
Asta 24 (56-66)	3	30.00	8.0	2	2	60.0	1.53	58.56	2.50	0.00	181.36	100.00	3.10	V
Asta 27 (81-66)	1	63.30	8.0	2	2	150.0	8.32	59.87	2.50	0.00	162.27	100.00	2.71	V
Asta 27 (81-66)	2	84.40	8.0	2	2	300.0	8.32	17.07	2.50	0.00	81.14	100.00	4.75	V
Asta 27 (81-66)	3	63.30	8.0	2	2	150.0	8.32	66.57	2.50	0.00	162.27	100.00	2.44	V
Asta 30 (76-81)	1	171.00	8.0	2	2	150.0	0.76	31.25	2.50	0.00	162.27	100.00	5.19	V
Asta 30 (76-81)	2	228.00	8.0	2	2	300.0	0.76	16.26	2.50	0.00	81.14	100.00	4.99	V
Asta 30 (76-81)	3	171.00	8.0	2	2	150.0	0.76	24.93	2.50	0.00	162.27	100.00	6.51	V
Asta 33 (96-81)	-	61.00	8.0	2	2	60.0	33.37	214.34	1.90	0.00	216.76	100.00	1.01	V
Asta 35 (86-96)	1	109.80	8.0	2	2	150.0	2.16	70.84	2.50	0.00	162.27	100.00	2.29	V
Asta 35 (86-96)	2	146.40	8.0	2	2	300.0	2.16	27.09	2.50	0.00	81.14	100.00	3.00	V
Asta 35 (86-96)	3	109.80	8.0	2	2	150.0	2.16	59.05	2.50	0.00	162.27	100.00	2.75	V
Asta 36 (111-96)	1	105.90	8.0	2	2	150.0	3.35	45.63	2.50	0.00	162.27	100.00	3.56	V
Asta 36 (111-96)	2	141.20	8.0	2	2	300.0	3.35	18.05	2.50	0.00	81.14	100.00	4.49	V
Asta 36 (111-96)	3	105.90	8.0	2	2	150.0	3.35	35.73	2.50	0.00	162.27	100.00	4.54	V
Asta 38 (106-111)	1	171.00	8.0	2	2	150.0	0.42	27.35	2.50	0.00	162.27	100.00	5.93	V
Asta 38 (106-111)	2	228.00	8.0	2	2	300.0	0.42	16.31	2.50	0.00	81.14	100.00	4.98	V
Asta 38 (106-111)	3	171.00	8.0	2	2	150.0	0.42	28.83	2.50	0.00	162.27	100.00	5.63	V
Asta 40 (111-141)	1	90.00	8.0	2	2	150.0	3.44	38.65	2.50	0.00	162.27	100.00	4.20	V
Asta 40 (111-141)	2	120.00	8.0	2	2	300.0	3.44	29.04	2.50	0.00	81.14	100.00	2.79	V
Asta 40 (111-141)	3	90.00	8.0	2	2	150.0	3.44	48.19	2.50	0.00	162.27	100.00	3.37	V
Asta 42 (126-116)	1	184.50	8.0	2	2	150.0	0.35	27.31	2.50	0.00	162.27	100.00	5.94	V
Asta 42 (126-116)	2	246.00	8.0	2	2	300.0	0.35	16.95	2.50	0.00	81.14	100.00	4.79	V
Asta 42 (126-116)	3	184.50	8.0	2	2	150.0	0.35	27.87	2.50	0.00	162.27	100.00	5.82	V
Asta 43 (121-136)	1	85.50	8.0	2	2	150.0	1.98	45.51	2.50	0.00	162.27	100.00	3.57	V
Asta 43 (121-136)	2	114.00	8.0	2	2	300.0	1.98	29.26	2.50	0.00	81.14	100.00	2.77	V
Asta 43 (121-136)	3	85.50	8.0	2	2	150.0	1.98	39.90	2.50	0.00	162.27	100.00	4.07	V
Asta 44 (131-126)	1	189.00	8.0	2	2	150.0	0.26	26.96	2.50	0.00	162.27	100.00	6.02	V
Asta 44 (131-126)	2	252.00	8.0	2	2	300.0	0.26	14.60	2.50	0.00	81.14	100.00	5.56	V
Asta 44 (131-126)	3	189.00	8.0	2	2	150.0	0.26	27.50	2.50	0.00	162.27	100.00	5.90	V
Asta 45 (136-131)	1	90.00	8.0	2	2	150.0	1.67	37.05	2.50	0.00	162.27	100.00	4.38	V
Asta 45 (136-131)	2	120.00	8.0	2	2	300.0	1.67	30.67	2.50	0.00	81.14	100.00	2.65	V
Asta 45 (136-131)	3	90.00	8.0	2	2	150.0	1.67	46.70	2.50	0.00	162.27	100.00	3.47	V
Asta 46 (156-131)	1	138.45	8.0	2	2	150.0	0.96	26.88	2.50	0.00	162.27	100.00	6.04	V
Asta 46 (156-131)	2	184.60	8.0	2	2	300.0	0.96	14.40	2.50	0.00	81.14	100.00	5.63	V
Asta 46 (156-131)	3	138.45	8.0	2	2	150.0	0.96	23.31	2.50	0.00	162.27	100.00	6.96	V
Asta 47 (136-151)	1	137.70	8.0	2	2	150.0	0.72	29.76	2.50	0.00	162.27	100.00	5.45	V
Asta 47 (136-151)	2	183.60	8.0	2	2	300.0	0.72	16.95	2.50	0.00	81.14	100.00	4.79	V
Asta 47 (136-151)	3	137.70	8.0	2	2	150.0	0.72	32.07	2.50	0.00	162.27	100.00	5.06	V
Asta 49 (151-141)	1	100.50	8.0	2	2	150.0	1.55	34.85	2.50	0.00	162.27	100.00	4.66	V
Asta 49 (151-141)	2	134.00	8.0	2	2	300.0	1.55	25.36	2.50	0.00	81.14	100.00	3.20	V
Asta 49 (151-141)	3	100.50	8.0	2	2	150.0	1.55	45.74	2.50	0.00	162.27	100.00	3.55	V
Asta 51 (12-2)	1	40.00	8.0	2	2	90.0	0.50	74.28	2.50	0.00	247.31	100.00	3.33	V
Asta 51 (12-2)	2	364.00	8.0	2	2	200.0	0.50	61.92	2.50	0.00	165.96	100.00	2.68	V
Asta 51 (12-2)	3	40.00	8.0	2	2	90.0	0.50	85.34	2.50	0.00	247.31	100.00	2.90	V
Asta 52 (2-222)	1	60.00	8.0	2	2	80.0	0.41	162.06	2.50	0.00	379.20	100.00	2.34	V
Asta 52 (2-222)	2	465.00	8.0	2	2	150.0	0.41	90.37	2.50	0.00	339.29	100.00	3.75	V
Asta 52 (2-222)	3	60.00	8.0	2	2	80.0	0.41	156.64	2.50	0.00	379.20	100.00	2.42	V
Asta 53 (7-17)	1	40.00	8.0	2	2	90.0	0.32	92.84	2.50	0.00	247.31	100.00	2.66	V
Asta 53 (7-17)	2	364.00	8.0	2	2	200.0	0.32	62.50	2.50	0.00	165.96	100.00	2.66	V
Asta 53 (7-17)	3	40.00	8.0	2	2	90.0	0.32	66.78	2.50	0.00	247.31	100.00	3.70	V
Asta 54 (222-7)	1	60.00	8.0	2	2	80.0	0.27	154.56	2.50	0.00	379.20	100.00	2.45	V
Asta 54 (222-7)	2	465.00	8.0	2	2	150.0	0.27	91.85	2.50	0.00	339.29	100.00	3.69	V
Asta 54 (222-7)	3	60.00	8.0	2	2	80.0	0.27	164.14	2.50	0.00	379.20	100.00	2.31	V
Asta 55 (27-12)	1	40.00	8.0	2	2	90.0	0.26	70.71	2.50	0.00	247.31	100.00	3.50	V
Asta 55 (27-12)	2	364.00	8.0	2	2	200.0	0.26	54.41	2.50	0.00	165.96	100.00	3.05	V
Asta 55 (27-12)	3	40.00	8.0	2	2	90.0	0.26	69.71	2.50	0.00	247.31	100.00	3.55	V
Asta 56 (12-227)	1	60.00	8.0	2	2	80.0	0.41	202.36	2.50	0.00	379.20	100.00	1.87	V
Asta 56 (12-227)	2	465.00	8.0	2	2	150.0	0.41	121.43	2.50	0.00	339.29	100.00	2.79	V
Asta 56 (12-227)	3	60.00	8.0	2	2	80.0	0.41	185.33	2.50	0.00	379.20	100.00	2.05	V
Asta 57 (22-17)	1	80.00	8.0	2	2	80.0	0.69	191.55	2.50	0.00	511.10	100.00	2.67	V
Asta 57 (22-17)	2	410.00	8.0	2	2	150.0	0.69	120.92	2.50	0.00	457.31	100.00	3.78	V
Asta 57 (22-17)	3	80.00	8.0	2	2	80.0	0.69	204.02	2.50	0.00	511.10	100.00	2.51	V
Asta 58 (17-32)	1	40.00	8.0	2	2	90.0	0.39	73.37	2.50	0.00	247.31	100.00	3.37	V

Asta 58 (17-32)	2	364.00	8.0	2	2	200.0	0.39	49.48	2.50	0.00	165.96	100.00	3.35	V
Asta 58 (17-32)	3	40.00	8.0	2	2	90.0	0.39	67.02	2.50	0.00	247.31	100.00	3.69	V
Asta 59 (227-17)	1	60.00	8.0	2	2	80.0	0.04	185.90	2.50	0.00	379.20	100.00	2.04	V
Asta 59 (227-17)	2	465.00	8.0	2	2	150.0	0.04	119.51	2.50	0.00	339.29	100.00	2.84	V
Asta 59 (227-17)	3	60.00	8.0	2	2	80.0	0.04	209.38	2.50	0.00	379.20	100.00	1.81	V
Asta 60 (37-22)	1	80.00	8.0	2	2	80.0	0.63	119.35	2.50	0.00	511.10	100.00	4.28	V
Asta 60 (37-22)	2	284.00	8.0	2	2	150.0	0.63	62.16	2.50	0.00	457.31	100.00	7.36	V
Asta 60 (37-22)	3	80.00	8.0	2	2	80.0	0.63	154.61	2.50	0.00	511.10	100.00	3.31	V
Asta 61 (42-27)	1	40.00	8.0	2	2	90.0	0.06	70.72	2.50	0.00	247.31	100.00	3.50	V
Asta 61 (42-27)	2	364.00	8.0	2	2	200.0	0.06	54.44	2.50	0.00	165.96	100.00	3.05	V
Asta 61 (42-27)	3	40.00	8.0	2	2	90.0	0.06	69.71	2.50	0.00	247.31	100.00	3.55	V
Asta 62 (27-232)	1	60.00	8.0	2	2	80.0	0.13	183.96	2.50	0.00	379.20	100.00	2.06	V
Asta 62 (27-232)	2	465.00	8.0	2	2	150.0	0.13	111.22	2.50	0.00	339.29	100.00	3.05	V
Asta 62 (27-232)	3	60.00	8.0	2	2	80.0	0.13	173.39	2.50	0.00	379.20	100.00	2.19	V
Asta 63 (37-32)	1	60.00	8.0	2	2	80.0	1.07	162.24	2.50	0.00	379.20	100.00	2.34	V
Asta 63 (37-32)	2	450.00	8.0	2	2	150.0	1.07	115.56	2.50	0.00	339.29	100.00	2.94	V
Asta 63 (37-32)	3	60.00	8.0	2	2	80.0	1.07	180.86	2.50	0.00	379.20	100.00	2.10	V
Asta 64 (32-47)	1	40.00	8.0	2	2	90.0	0.79	70.93	2.50	0.00	247.31	100.00	3.49	V
Asta 64 (32-47)	2	364.00	8.0	2	2	200.0	0.79	47.40	2.50	0.00	165.96	100.00	3.50	V
Asta 64 (32-47)	3	40.00	8.0	2	2	90.0	0.79	69.41	2.50	0.00	247.31	100.00	3.56	V
Asta 65 (232-32)	1	60.00	8.0	2	2	80.0	0.05	186.74	2.50	0.00	379.20	100.00	2.03	V
Asta 65 (232-32)	2	465.00	8.0	2	2	150.0	0.05	115.05	2.50	0.00	339.29	100.00	2.95	V
Asta 65 (232-32)	3	60.00	8.0	2	2	80.0	0.05	208.49	2.50	0.00	379.20	100.00	1.82	V
Asta 66 (52-37)	1	80.00	8.0	2	2	80.0	0.67	125.56	2.50	0.00	511.10	100.00	4.07	V
Asta 66 (52-37)	2	284.00	8.0	2	2	150.0	0.67	59.01	2.50	0.00	457.31	100.00	7.75	V
Asta 66 (52-37)	3	80.00	8.0	2	2	80.0	0.67	147.93	2.50	0.00	511.10	100.00	3.45	V
Asta 67 (72-42)	1	40.00	8.0	2	2	90.0	0.31	70.62	2.50	0.00	247.31	100.00	3.50	V
Asta 67 (72-42)	2	364.00	8.0	2	2	200.0	0.31	54.36	2.50	0.00	165.96	100.00	3.05	V
Asta 67 (72-42)	3	40.00	8.0	2	2	90.0	0.31	69.81	2.50	0.00	247.31	100.00	3.54	V
Asta 68 (42-237)	1	60.00	8.0	2	2	80.0	0.11	183.75	2.50	0.00	379.20	100.00	2.06	V
Asta 68 (42-237)	2	465.00	8.0	2	2	150.0	0.11	109.48	2.50	0.00	339.29	100.00	3.10	V
Asta 68 (42-237)	3	60.00	8.0	2	2	80.0	0.11	173.60	2.50	0.00	379.20	100.00	2.18	V
Asta 69 (52-47)	1	60.00	8.0	2	2	80.0	1.81	164.19	2.50	0.00	379.20	100.00	2.31	V
Asta 69 (52-47)	2	450.00	8.0	2	2	150.0	1.81	119.51	2.50	0.00	339.29	100.00	2.84	V
Asta 69 (52-47)	3	60.00	8.0	2	2	80.0	1.81	191.14	2.50	0.00	379.20	100.00	1.98	V
Asta 70 (47-77)	1	40.00	8.0	2	2	90.0	1.28	70.49	2.50	0.00	247.31	100.00	3.51	V
Asta 70 (47-77)	2	364.00	8.0	2	2	200.0	1.28	46.90	2.50	0.00	165.96	100.00	3.54	V
Asta 70 (47-77)	3	40.00	8.0	2	2	90.0	1.28	69.86	2.50	0.00	247.31	100.00	3.54	V
Asta 71 (237-47)	1	60.00	8.0	2	2	80.0	0.02	186.97	2.50	0.00	379.20	100.00	2.03	V
Asta 71 (237-47)	2	465.00	8.0	2	2	150.0	0.02	113.26	2.50	0.00	339.29	100.00	3.00	V
Asta 71 (237-47)	3	60.00	8.0	2	2	80.0	0.02	208.26	2.50	0.00	379.20	100.00	1.82	V
Asta 72 (67-52)	1	80.00	8.0	2	2	80.0	1.77	233.86	2.50	0.00	511.10	100.00	2.19	V
Asta 72 (67-52)	2	58.00	8.0	2	2	150.0	1.77	47.77	2.50	0.00	457.31	100.00	9.57	V
Asta 72 (67-52)	3	80.00	8.0	2	2	80.0	1.77	254.77	2.50	0.00	511.10	100.00	2.01	V
Asta 73 (82-67)	1	80.00	8.0	2	2	80.0	1.77	224.29	2.50	0.00	511.10	100.00	2.28	V
Asta 73 (82-67)	2	66.00	8.0	2	2	150.0	1.77	26.70	2.50	0.00	457.31	100.00	17.13	V
Asta 73 (82-67)	3	80.00	8.0	2	2	80.0	1.77	226.00	2.50	0.00	511.10	100.00	2.26	V
Asta 74 (102-72)	1	40.00	8.0	2	2	90.0	0.95	78.69	2.50	0.00	247.31	100.00	3.14	V
Asta 74 (102-72)	2	364.00	8.0	2	2	200.0	0.95	59.90	2.50	0.00	165.96	100.00	2.77	V
Asta 74 (102-72)	3	40.00	8.0	2	2	90.0	0.95	71.56	2.50	0.00	247.31	100.00	3.46	V
Asta 75 (72-242)	1	60.00	8.0	2	2	80.0	0.33	185.79	2.50	0.00	379.20	100.00	2.04	V
Asta 75 (72-242)	2	465.00	8.0	2	2	150.0	0.33	111.58	2.50	0.00	339.29	100.00	3.04	V
Asta 75 (72-242)	3	60.00	8.0	2	2	80.0	0.33	171.56	2.50	0.00	379.20	100.00	2.21	V
Asta 76 (82-77)	1	60.00	8.0	2	2	80.0	1.83	164.44	2.50	0.00	379.20	100.00	2.31	V
Asta 76 (82-77)	2	450.00	8.0	2	2	150.0	1.83	120.77	2.50	0.00	339.29	100.00	2.81	V
Asta 76 (82-77)	3	60.00	8.0	2	2	80.0	1.83	190.90	2.50	0.00	379.20	100.00	1.99	V
Asta 77 (77-107)	1	40.00	8.0	2	2	90.0	0.77	65.57	2.50	0.00	247.31	100.00	3.77	V
Asta 77 (77-107)	2	364.00	8.0	2	2	200.0	0.77	53.63	2.50	0.00	165.96	100.00	3.09	V
Asta 77 (77-107)	3	40.00	8.0	2	2	90.0	0.77	75.10	2.50	0.00	247.31	100.00	3.29	V
Asta 78 (242-77)	1	60.00	8.0	2	2	80.0	0.01	175.66	2.50	0.00	379.20	100.00	2.16	V
Asta 78 (242-77)	2	465.00	8.0	2	2	150.0	0.01	112.24	2.50	0.00	339.29	100.00	3.02	V
Asta 78 (242-77)	3	60.00	8.0	2	2	80.0	0.01	194.72	2.50	0.00	379.20	100.00	1.95	V
Asta 79 (97-82)	-	76.00	8.0	2	2	60.0	0.45	652.40	1.60	666.15	666.15	100.00	1.02	V
Asta 80 (112-97)	1	80.00	8.0	2	2	80.0	0.45	159.09	2.50	0.00	511.10	100.00	3.21	V
Asta 80 (112-97)	2	208.00	8.0	2	2	150.0	0.45	54.71	2.50	0.00	457.31	100.00	8.36	V
Asta 80 (112-97)	3	80.00	8.0	2	2	80.0	0.45	139.71	2.50	0.00	511.10	100.00	3.66	V
Asta 81 (102-117)	1	60.00	8.0	2	2	80.0	2.52	302.81	2.50	0.00	379.20	100.00	1.25	V
Asta 81 (102-117)	2	181.00	8.0	2	2	150.0	2.52	150.24	2.50	0.00	339.29	100.00	2.26	V
Asta 81 (102-117)	3	60.00	8.0	2	2	80.0	2.52	226.26	2.50	0.00	379.20	100.00	1.68	V

Asta 82 (112-107)	1	60.00	8.0	2	2	80.0	3.30	152.59	2.50	0.00	379.20	100.00	2.49	V
Asta 82 (112-107)	2	450.00	8.0	2	2	150.0	3.30	107.61	2.50	0.00	339.29	100.00	3.15	V
Asta 82 (112-107)	3	60.00	8.0	2	2	80.0	3.30	163.89	2.50	0.00	379.20	100.00	2.31	V
Asta 83 (122-107)	1	60.00	8.0	2	2	80.0	3.24	229.95	2.50	0.00	379.20	100.00	1.65	V
Asta 83 (122-107)	2	89.00	8.0	2	2	150.0	3.24	110.76	2.50	0.00	339.29	100.00	3.06	V
Asta 83 (122-107)	3	60.00	8.0	2	2	80.0	3.24	301.45	2.50	0.00	379.20	100.00	1.26	V
Asta 84 (142-112)	1	80.00	8.0	2	2	80.0	7.64	233.78	2.50	0.00	511.10	100.00	2.19	V
Asta 84 (142-112)	2	140.00	8.0	2	2	150.0	7.64	99.64	2.50	0.00	457.31	100.00	4.59	V
Asta 84 (142-112)	3	80.00	8.0	2	2	80.0	7.64	209.50	2.50	0.00	511.10	100.00	2.44	V
Asta 85 (117-122)	1	60.00	8.0	2	2	80.0	2.06	134.23	2.50	0.00	379.20	100.00	2.82	V
Asta 85 (117-122)	2	510.00	8.0	2	2	150.0	2.06	101.39	2.50	0.00	339.29	100.00	3.35	V
Asta 85 (117-122)	3	60.00	8.0	2	2	80.0	2.06	159.36	2.50	0.00	379.20	100.00	2.38	V
Asta 86 (117-127)	1	80.00	8.0	2	2	80.0	2.79	206.28	2.50	0.00	511.10	100.00	2.48	V
Asta 86 (117-127)	2	470.00	8.0	2	2	150.0	2.79	105.57	2.50	0.00	457.31	100.00	4.33	V
Asta 86 (117-127)	3	80.00	8.0	2	2	80.0	2.79	200.68	2.50	0.00	511.10	100.00	2.55	V
Asta 87 (122-137)	1	60.00	8.0	2	2	80.0	5.14	142.34	2.50	0.00	379.20	100.00	2.66	V
Asta 87 (122-137)	2	180.00	8.0	2	2	150.0	5.14	76.71	2.50	0.00	339.29	100.00	4.42	V
Asta 87 (122-137)	3	60.00	8.0	2	2	80.0	5.14	124.44	2.50	0.00	379.20	100.00	3.05	V
Asta 88 (127-132)	1	80.00	8.0	2	2	80.0	1.81	118.19	2.50	0.00	511.10	100.00	4.32	V
Asta 88 (127-132)	2	470.00	8.0	2	2	150.0	1.81	53.06	2.50	0.00	457.31	100.00	8.62	V
Asta 88 (127-132)	3	80.00	8.0	2	2	80.0	1.81	98.40	2.50	0.00	511.10	100.00	5.19	V
Asta 89 (137-132)	1	60.00	8.0	2	2	80.0	2.88	125.53	2.50	0.00	379.20	100.00	3.02	V
Asta 89 (137-132)	2	180.00	8.0	2	2	150.0	2.88	76.13	2.50	0.00	339.29	100.00	4.46	V
Asta 89 (137-132)	3	60.00	8.0	2	2	80.0	2.88	149.78	2.50	0.00	379.20	100.00	2.53	V
Asta 90 (132-157)	1	80.00	8.0	2	2	80.0	1.54	122.72	2.50	0.00	511.10	100.00	4.16	V
Asta 90 (132-157)	2	301.50	8.0	2	2	150.0	1.54	71.91	2.50	0.00	457.31	100.00	6.36	V
Asta 90 (132-157)	3	80.00	8.0	2	2	80.0	1.54	154.70	2.50	0.00	511.10	100.00	3.30	V
Asta 91 (137-152)	1	60.00	8.0	2	2	80.0	2.65	103.56	2.50	0.00	379.20	100.00	3.66	V
Asta 91 (137-152)	2	339.00	8.0	2	2	150.0	2.65	52.73	2.50	0.00	339.29	100.00	6.43	V
Asta 91 (137-152)	3	60.00	8.0	2	2	80.0	2.65	103.16	2.50	0.00	379.20	100.00	3.68	V
Asta 92 (142-147)	1	80.00	8.0	2	2	80.0	1.19	166.24	2.50	0.00	511.10	100.00	3.07	V
Asta 92 (142-147)	2	140.00	8.0	2	2	150.0	1.19	55.44	2.50	0.00	457.31	100.00	8.25	V
Asta 92 (142-147)	3	80.00	8.0	2	2	80.0	1.19	177.68	2.50	0.00	511.10	100.00	2.88	V
Asta 93 (152-142)	1	60.00	8.0	2	2	80.0	0.95	98.29	2.50	0.00	379.20	100.00	3.86	V
Asta 93 (152-142)	2	230.00	8.0	2	2	150.0	0.95	61.21	2.50	0.00	339.29	100.00	5.54	V
Asta 93 (152-142)	3	60.00	8.0	2	2	80.0	0.95	126.90	2.50	0.00	379.20	100.00	2.99	V
Asta 94 (157-147)	1	80.00	8.0	2	2	80.0	0.80	164.87	2.50	0.00	511.10	100.00	3.10	V
Asta 94 (157-147)	2	192.50	8.0	2	2	150.0	0.80	45.27	2.50	0.00	457.31	100.00	10.10	V
Asta 94 (157-147)	3	80.00	8.0	2	2	80.0	0.80	140.19	2.50	0.00	511.10	100.00	3.65	V
Asta 130 (68-53)	1	35.00	8.0	2	2	80.0	4.14	88.43	2.50	0.00	178.61	100.00	2.02	V
Asta 130 (68-53)	2	138.00	8.0	2	2	200.0	4.14	53.11	2.50	0.00	143.83	100.00	2.71	V
Asta 130 (68-53)	3	35.00	8.0	2	2	80.0	4.14	115.08	2.50	0.00	178.61	100.00	1.55	V
Asta 131 (63-58)	1	20.00	8.0	2	2	40.0	0.20	38.59	2.50	0.00	96.17	100.00	2.49	V
Asta 131 (63-58)	2	344.00	8.0	2	2	140.0	0.20	25.50	2.50	0.00	96.17	100.00	3.77	V
Asta 131 (63-58)	3	20.00	8.0	2	2	40.0	0.20	42.07	2.50	0.00	96.17	100.00	2.29	V
Asta 132 (58-68)	1	20.00	8.0	2	2	40.0	0.86	59.42	2.50	0.00	96.17	100.00	1.62	V
Asta 132 (58-68)	2	346.00	8.0	2	2	140.0	0.86	36.33	2.50	0.00	96.17	100.00	2.65	V
Asta 132 (58-68)	3	20.00	8.0	2	2	40.0	0.86	37.22	2.50	0.00	96.17	100.00	2.58	V
Asta 133 (88-58)	1	20.00	8.0	2	2	40.0	1.09	14.84	2.50	0.00	96.17	100.00	6.48	V
Asta 133 (88-58)	2	267.00	8.0	2	2	140.0	1.09	10.56	2.50	0.00	96.17	100.00	9.11	V
Asta 133 (88-58)	3	20.00	8.0	2	2	40.0	1.09	16.08	2.50	0.00	96.17	100.00	5.98	V
Asta 134 (93-63)	1	20.00	8.0	2	2	40.0	0.32	15.18	2.50	0.00	96.17	100.00	6.33	V
Asta 134 (93-63)	2	267.00	8.0	2	2	140.0	0.32	11.84	2.50	0.00	96.17	100.00	8.12	V
Asta 134 (93-63)	3	20.00	8.0	2	2	40.0	0.32	15.78	2.50	0.00	96.17	100.00	6.09	V
Asta 135 (83-68)	1	35.00	8.0	2	2	80.0	5.93	93.07	2.50	0.00	178.61	100.00	1.92	V
Asta 135 (83-68)	2	146.00	8.0	2	2	200.0	5.93	43.27	2.50	0.00	143.83	100.00	3.32	V
Asta 135 (83-68)	3	35.00	8.0	2	2	80.0	5.93	75.32	2.50	0.00	178.61	100.00	2.37	V
Asta 136 (98-83)	-	66.00	8.0	2	2	50.0	10.40	263.74	1.15	256.48	256.48	100.00	0.97	NV
Asta 137 (88-93)	1	20.00	8.0	2	2	40.0	0.22	42.56	2.50	0.00	96.17	100.00	2.26	V
Asta 137 (88-93)	2	344.00	8.0	2	2	140.0	0.22	25.89	2.50	0.00	96.17	100.00	3.71	V
Asta 137 (88-93)	3	20.00	8.0	2	2	40.0	0.22	38.06	2.50	0.00	96.17	100.00	2.53	V
Asta 138 (98-88)	1	20.00	8.0	2	2	40.0	0.69	38.55	2.50	0.00	96.17	100.00	2.49	V
Asta 138 (98-88)	2	346.00	8.0	2	2	140.0	0.69	35.72	2.50	0.00	96.17	100.00	2.69	V
Asta 138 (98-88)	3	20.00	8.0	2	2	40.0	0.69	58.12	2.50	0.00	96.17	100.00	1.65	V
Asta 139 (113-98)	1	35.00	8.0	2	2	80.0	2.06	72.91	2.50	0.00	178.61	100.00	2.45	V
Asta 139 (113-98)	2	288.00	8.0	2	2	200.0	2.06	43.58	2.50	0.00	143.83	100.00	3.30	V
Asta 139 (113-98)	3	35.00	8.0	2	2	80.0	2.06	54.76	2.50	0.00	178.61	100.00	3.26	V
Asta 140 (143-113)	1	35.00	8.0	2	2	80.0	2.39	86.53	2.50	0.00	178.61	100.00	2.06	V
Asta 140 (143-113)	2	235.00	8.0	2	2	200.0	2.39	54.15	2.50	0.00	143.83	100.00	2.66	V

Asta 140 (143-113)	3	35.00	8.0	2	2	80.0	2.39	76.09	2.50	0.00	178.61	100.00	2.35	V
Asta 231 (15-5)	1	133.20	8.0	2	2	150.0	1.63	30.47	2.50	0.00	162.27	100.00	5.33	V
Asta 231 (15-5)	2	177.60	8.0	2	2	300.0	1.63	24.21	2.50	0.00	81.14	100.00	3.35	V
Asta 231 (15-5)	3	133.20	8.0	2	2	150.0	1.63	35.40	2.50	0.00	162.27	100.00	4.58	V
Asta 233 (20-10)	1	133.20	8.0	2	2	150.0	1.29	31.51	2.50	0.00	162.27	100.00	5.15	V
Asta 233 (20-10)	2	177.60	8.0	2	2	300.0	1.29	27.26	2.50	0.00	81.14	100.00	2.98	V
Asta 233 (20-10)	3	133.20	8.0	2	2	150.0	1.29	41.58	2.50	0.00	162.27	100.00	3.90	V
Asta 236 (30-15)	1	30.00	8.0	2	2	60.0	1.44	33.42	2.50	0.00	181.36	100.00	5.43	V
Asta 236 (30-15)	2	384.00	8.0	2	2	200.0	1.44	23.87	2.50	0.00	121.70	100.00	5.10	V
Asta 236 (30-15)	3	30.00	8.0	2	2	60.0	1.44	32.37	2.50	0.00	181.36	100.00	5.60	V
Asta 238 (35-20)	1	30.00	8.0	2	2	60.0	1.22	32.05	2.50	0.00	181.36	100.00	5.66	V
Asta 238 (35-20)	2	384.00	8.0	2	2	200.0	1.22	23.80	2.50	0.00	121.70	100.00	5.11	V
Asta 238 (35-20)	3	30.00	8.0	2	2	60.0	1.22	33.75	2.50	0.00	181.36	100.00	5.37	V
Asta 241 (45-30)	1	30.00	8.0	2	2	60.0	0.01	33.37	2.50	0.00	181.36	100.00	5.43	V
Asta 241 (45-30)	2	384.00	8.0	2	2	200.0	0.01	23.80	2.50	0.00	121.70	100.00	5.11	V
Asta 241 (45-30)	3	30.00	8.0	2	2	60.0	0.01	32.42	2.50	0.00	181.36	100.00	5.59	V
Asta 243 (50-35)	1	30.00	8.0	2	2	60.0	0.17	33.34	2.50	0.00	181.36	100.00	5.44	V
Asta 243 (50-35)	2	384.00	8.0	2	2	200.0	0.17	23.54	2.50	0.00	121.70	100.00	5.17	V
Asta 243 (50-35)	3	30.00	8.0	2	2	60.0	0.17	32.45	2.50	0.00	181.36	100.00	5.59	V
Asta 246 (75-45)	1	30.00	8.0	2	2	60.0	1.00	33.28	2.50	0.00	181.36	100.00	5.45	V
Asta 246 (75-45)	2	384.00	8.0	2	2	200.0	1.00	23.71	2.50	0.00	121.70	100.00	5.13	V
Asta 246 (75-45)	3	30.00	8.0	2	2	60.0	1.00	32.51	2.50	0.00	181.36	100.00	5.58	V
Asta 248 (80-50)	1	30.00	8.0	2	2	60.0	1.26	33.76	2.50	0.00	181.36	100.00	5.37	V
Asta 248 (80-50)	2	384.00	8.0	2	2	200.0	1.26	23.86	2.50	0.00	121.70	100.00	5.10	V
Asta 248 (80-50)	3	30.00	8.0	2	2	60.0	1.26	32.04	2.50	0.00	181.36	100.00	5.66	V
Asta 251 (105-75)	1	30.00	8.0	2	2	60.0	1.52	34.75	2.50	0.00	181.36	100.00	5.22	V
Asta 251 (105-75)	2	384.00	8.0	2	2	200.0	1.52	26.56	2.50	0.00	121.70	100.00	4.58	V
Asta 251 (105-75)	3	30.00	8.0	2	2	60.0	1.52	31.12	2.50	0.00	181.36	100.00	5.83	V
Asta 253 (110-80)	1	30.00	8.0	2	2	60.0	1.20	40.01	2.50	0.00	181.36	100.00	4.53	V
Asta 253 (110-80)	2	384.00	8.0	2	2	200.0	1.20	28.65	2.50	0.00	121.70	100.00	4.25	V
Asta 253 (110-80)	3	30.00	8.0	2	2	60.0	1.20	32.37	2.50	0.00	181.36	100.00	5.60	V

1.2.3.6 Taglio SLD

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");

Blocco : Tratto nel quale le staffe vengono mantenute costanti

1 : Estremo iniziale;

2 : Mediano;

3 : Estremo finale;

Ltr : Lunghezza del blocco;

Tagli Sollecitanti

Vsd1-3 : Valore del Taglio 1-3 sollecitante di calcolo

(calcolato per soddisfare $V_{sd} = V_{ed}$; $V_{ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);

Vsd1-2 : Valore del Taglio 1-2 sollecitante di calcolo

(calcolato per soddisfare $V_{sd} = V_{ed}$; $V_{ed} = \gamma_{Rd} (M_{C,Rdsup} + M_{C,Rdinf}) / l_p$);

$\gamma_{Rd} = 1.1$;

cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;

Tagli Resistenti

Vrd1-3 : Valore del Taglio 1-3 resistente di calcolo;

Vrd1-2 : Valore del Taglio 1-2 resistente di calcolo;

Ø : Diametro della staffa;

Nbr 2 : Numero di bracci di cui è composta la staffa in direzione 2 locale;

Nbr 3 : Numero di bracci di cui è composta la staffa in direzione 3 locale;

Passo : Interasse tra le staffe;

S1-2 : Coefficiente di sicurezza relativo a Vsd1-2

S1-3 : Coefficiente di sicurezza relativo a Vsd1-3

Esito : V = Verificato; NV = Non Verificato;

Trave	Blocco	Ltr [cm]	Ø [mm]	Nbr 2	Nbr 3	Passo [mm]	Vsd1-2 [kN]	Vsd1-3 [kN]	cot(θ)	Vrd1-2 [kN]	Vrd1-3 [kN]	S1-2	S1-3	Esito
Asta 7 (16-21)	1	171.00	8.0	2	2	150.0	0.33	19.38	2.50	0.00	186.61	100.00	9.63	V
Asta 7 (16-21)	2	228.00	8.0	2	2	210.0	0.33	15.42	2.50	0.00	133.29	100.00	8.64	V

Asta 7 (16-21)	3	171.00	8.0	2	2	150.0	0.33	20.91	2.50	0.00	186.61	100.00	8.93	V
Asta 10 (21-36)	1	133.20	8.0	2	2	150.0	0.30	28.68	2.50	0.00	186.61	100.00	6.51	V
Asta 10 (21-36)	2	177.60	8.0	2	2	210.0	0.30	24.39	2.50	0.00	133.29	100.00	5.46	V
Asta 10 (21-36)	3	133.20	8.0	2	2	150.0	0.30	18.68	2.50	0.00	186.61	100.00	9.99	V
Asta 13 (31-36)	1	171.00	8.0	2	2	150.0	0.40	17.72	2.50	0.00	186.61	100.00	10.53	V
Asta 13 (31-36)	2	228.00	8.0	2	2	210.0	0.40	12.47	2.50	0.00	133.29	100.00	10.69	V
Asta 13 (31-36)	3	171.00	8.0	2	2	150.0	0.40	17.94	2.50	0.00	186.61	100.00	10.40	V
Asta 16 (36-51)	1	133.20	8.0	2	2	150.0	0.94	26.34	2.50	0.00	186.61	100.00	7.09	V
Asta 16 (36-51)	2	177.60	8.0	2	2	210.0	0.94	22.10	2.50	0.00	133.29	100.00	6.03	V
Asta 16 (36-51)	3	133.20	8.0	2	2	150.0	0.94	17.49	2.50	0.00	186.61	100.00	10.67	V
Asta 19 (46-51)	1	171.00	8.0	2	2	150.0	0.59	19.01	2.50	0.00	186.61	100.00	9.82	V
Asta 19 (46-51)	2	228.00	8.0	2	2	210.0	0.59	13.53	2.50	0.00	133.29	100.00	9.85	V
Asta 19 (46-51)	3	171.00	8.0	2	2	150.0	0.59	15.37	2.50	0.00	186.61	100.00	12.14	V
Asta 22 (66-51)	1	60.90	8.0	2	2	60.0	8.79	20.52	2.50	0.00	272.04	100.00	13.26	V
Asta 22 (66-51)	2	81.20	8.0	2	2	210.0	8.79	18.59	2.50	0.00	133.29	100.00	7.17	V
Asta 22 (66-51)	3	60.90	8.0	2	2	60.0	8.79	19.50	2.50	0.00	272.04	100.00	13.95	V
Asta 24 (56-66)	1	30.00	8.0	2	2	60.0	2.96	33.49	2.50	272.04	272.04	91.94	8.12	V
Asta 24 (56-66)	2	306.00	8.0	2	2	200.0	2.96	32.52	2.50	139.96	139.96	47.30	4.30	V
Asta 24 (56-66)	3	30.00	8.0	2	2	60.0	2.96	22.66	2.50	272.04	272.04	91.94	12.01	V
Asta 27 (81-66)	1	63.30	8.0	2	2	60.0	11.81	18.69	2.50	0.00	272.04	100.00	14.56	V
Asta 27 (81-66)	2	84.40	8.0	2	2	210.0	11.81	21.37	2.50	0.00	133.29	100.00	6.24	V
Asta 27 (81-66)	3	63.30	8.0	2	2	60.0	11.81	23.38	2.50	0.00	272.04	100.00	11.64	V
Asta 30 (76-81)	1	171.00	8.0	2	2	150.0	0.53	20.03	2.50	0.00	186.61	100.00	9.32	V
Asta 30 (76-81)	2	228.00	8.0	2	2	210.0	0.53	14.55	2.50	0.00	133.29	100.00	9.16	V
Asta 30 (76-81)	3	171.00	8.0	2	2	150.0	0.53	13.71	2.50	0.00	186.61	100.00	13.61	V
Asta 33 (96-81)	-	61.00	8.0	2	2	60.0	40.49	28.03	2.50	0.00	272.04	100.00	9.71	V
Asta 35 (86-96)	1	109.80	8.0	2	2	60.0	3.71	35.58	2.50	0.00	272.04	100.00	7.65	V
Asta 35 (86-96)	2	146.40	8.0	2	2	210.0	3.71	32.04	2.50	0.00	133.29	100.00	4.16	V
Asta 35 (86-96)	3	109.80	8.0	2	2	60.0	3.71	27.33	2.50	0.00	272.04	100.00	9.96	V
Asta 36 (111-96)	1	105.90	8.0	2	2	60.0	4.13	25.88	2.50	0.00	272.04	100.00	10.51	V
Asta 36 (111-96)	2	141.20	8.0	2	2	210.0	4.13	22.51	2.50	0.00	133.29	100.00	5.92	V
Asta 36 (111-96)	3	105.90	8.0	2	2	60.0	4.13	18.02	2.50	0.00	272.04	100.00	15.09	V
Asta 38 (106-111)	1	171.00	8.0	2	2	150.0	0.49	18.61	2.50	0.00	186.61	100.00	10.03	V
Asta 38 (106-111)	2	228.00	8.0	2	2	210.0	0.49	14.61	2.50	0.00	133.29	100.00	9.12	V
Asta 38 (106-111)	3	171.00	8.0	2	2	150.0	0.49	20.09	2.50	0.00	186.61	100.00	9.29	V
Asta 40 (111-141)	1	90.00	8.0	2	2	150.0	3.20	23.60	2.50	0.00	186.61	100.00	7.91	V
Asta 40 (111-141)	2	120.00	8.0	2	2	210.0	3.20	27.41	2.50	0.00	133.29	100.00	4.86	V
Asta 40 (111-141)	3	90.00	8.0	2	2	150.0	3.20	30.28	2.50	0.00	186.61	100.00	6.16	V
Asta 42 (126-116)	1	184.50	8.0	2	2	150.0	0.29	20.74	2.50	0.00	186.61	100.00	9.00	V
Asta 42 (126-116)	2	246.00	8.0	2	2	210.0	0.29	15.32	2.50	0.00	133.29	100.00	8.70	V
Asta 42 (126-116)	3	184.50	8.0	2	2	150.0	0.29	21.30	2.50	0.00	186.61	100.00	8.76	V
Asta 43 (121-136)	1	85.50	8.0	2	2	150.0	1.82	31.03	2.50	0.00	186.61	100.00	6.01	V
Asta 43 (121-136)	2	114.00	8.0	2	2	210.0	1.82	28.24	2.50	0.00	133.29	100.00	4.72	V
Asta 43 (121-136)	3	85.50	8.0	2	2	150.0	1.82	25.42	2.50	0.00	186.61	100.00	7.34	V
Asta 44 (131-126)	1	189.00	8.0	2	2	150.0	0.28	19.82	2.50	0.00	186.61	100.00	9.42	V
Asta 44 (131-126)	2	252.00	8.0	2	2	210.0	0.28	14.30	2.50	0.00	133.29	100.00	9.32	V
Asta 44 (131-126)	3	189.00	8.0	2	2	150.0	0.28	20.36	2.50	0.00	186.61	100.00	9.16	V
Asta 45 (136-131)	1	90.00	8.0	2	2	150.0	1.70	25.43	2.50	0.00	186.61	100.00	7.34	V
Asta 45 (136-131)	2	120.00	8.0	2	2	210.0	1.70	29.29	2.50	0.00	133.29	100.00	4.55	V
Asta 45 (136-131)	3	90.00	8.0	2	2	150.0	1.70	32.19	2.50	0.00	186.61	100.00	5.80	V
Asta 46 (156-131)	1	138.45	8.0	2	2	150.0	0.87	18.80	2.50	0.00	186.61	100.00	9.93	V
Asta 46 (156-131)	2	184.60	8.0	2	2	210.0	0.87	14.40	2.50	0.00	133.29	100.00	9.26	V
Asta 46 (156-131)	3	138.45	8.0	2	2	150.0	0.87	15.24	2.50	0.00	186.61	100.00	12.25	V
Asta 47 (136-151)	1	137.70	8.0	2	2	150.0	0.95	19.16	2.50	0.00	186.61	100.00	9.74	V
Asta 47 (136-151)	2	183.60	8.0	2	2	210.0	0.95	17.05	2.50	0.00	133.29	100.00	7.82	V
Asta 47 (136-151)	3	137.70	8.0	2	2	150.0	0.95	21.47	2.50	0.00	186.61	100.00	8.69	V
Asta 49 (151-141)	1	100.50	8.0	2	2	150.0	1.87	21.91	2.50	0.00	186.61	100.00	8.52	V
Asta 49 (151-141)	2	134.00	8.0	2	2	210.0	1.87	26.27	2.50	0.00	133.29	100.00	5.07	V
Asta 49 (151-141)	3	100.50	8.0	2	2	150.0	1.87	29.54	2.50	0.00	186.61	100.00	6.32	V
Asta 51 (12-2)	1	40.00	8.0	2	2	90.0	0.50	58.82	2.50	311.02	370.96	100.00	6.31	V
Asta 51 (12-2)	2	364.00	8.0	2	2	200.0	0.50	66.10	2.50	139.96	190.85	100.00	2.89	V
Asta 51 (12-2)	3	40.00	8.0	2	2	90.0	0.50	69.88	2.50	311.02	370.96	100.00	5.31	V
Asta 52 (2-222)	1	60.00	8.0	2	2	80.0	0.41	108.51	2.50	349.89	568.80	100.00	5.24	V
Asta 52 (2-222)	2	465.00	8.0	2	2	150.0	0.41	96.49	2.50	186.61	390.19	100.00	4.04	V
Asta 52 (2-222)	3	60.00	8.0	2	2	80.0	0.41	103.08	2.50	349.89	568.80	100.00	5.52	V
Asta 53 (7-17)	1	40.00	8.0	2	2	90.0	0.32	70.78	2.50	311.02	370.96	100.00	5.24	V
Asta 53 (7-17)	2	364.00	8.0	2	2	200.0	0.32	66.99	2.50	139.96	190.85	100.00	2.85	V
Asta 53 (7-17)	3	40.00	8.0	2	2	90.0	0.32	44.72	2.50	311.02	370.96	100.00	8.29	V
Asta 54 (222-7)	1	60.00	8.0	2	2	80.0	0.27	101.71	2.50	349.89	568.80	100.00	5.59	V

Asta 54 (222-7)	2	465.00	8.0	2	2	150.0	0.27	99.28	2.50	186.61	390.19	100.00	3.93	V
Asta 54 (222-7)	3	60.00	8.0	2	2	80.0	0.27	111.30	2.50	349.89	568.80	100.00	5.11	V
Asta 55 (27-12)	1	40.00	8.0	2	2	90.0	0.26	64.56	2.50	311.02	370.96	100.00	5.75	V
Asta 55 (27-12)	2	364.00	8.0	2	2	200.0	0.26	60.80	2.50	139.96	190.85	100.00	3.14	V
Asta 55 (27-12)	3	40.00	8.0	2	2	90.0	0.26	63.56	2.50	311.02	370.96	100.00	5.84	V
Asta 56 (12-227)	1	60.00	8.0	2	2	80.0	0.41	148.48	2.50	349.89	568.80	100.00	3.83	V
Asta 56 (12-227)	2	465.00	8.0	2	2	150.0	0.41	127.79	2.50	186.61	390.19	100.00	3.05	V
Asta 56 (12-227)	3	60.00	8.0	2	2	80.0	0.41	131.45	2.50	349.89	568.80	100.00	4.33	V
Asta 57 (22-17)	1	80.00	8.0	2	2	80.0	0.69	136.93	2.50	349.89	766.65	100.00	5.60	V
Asta 57 (22-17)	2	410.00	8.0	2	2	150.0	0.69	127.90	2.50	186.61	525.90	100.00	4.11	V
Asta 57 (22-17)	3	80.00	8.0	2	2	80.0	0.69	149.40	2.50	349.89	766.65	100.00	5.13	V
Asta 58 (17-32)	1	40.00	8.0	2	2	90.0	0.39	58.20	2.50	311.02	370.96	100.00	6.37	V
Asta 58 (17-32)	2	364.00	8.0	2	2	200.0	0.39	54.45	2.50	139.96	190.85	100.00	3.51	V
Asta 58 (17-32)	3	40.00	8.0	2	2	90.0	0.39	51.85	2.50	311.02	370.96	100.00	7.15	V
Asta 59 (227-17)	1	60.00	8.0	2	2	80.0	0.04	123.96	2.50	349.89	568.80	100.00	4.59	V
Asta 59 (227-17)	2	465.00	8.0	2	2	150.0	0.04	126.96	2.50	186.61	390.19	100.00	3.07	V
Asta 59 (227-17)	3	60.00	8.0	2	2	80.0	0.04	147.44	2.50	349.89	568.80	100.00	3.86	V
Asta 60 (37-22)	1	80.00	8.0	2	2	80.0	0.63	37.99	2.50	349.89	766.65	100.00	20.18	V
Asta 60 (37-22)	2	284.00	8.0	2	2	150.0	0.63	63.19	2.50	186.61	525.90	100.00	8.32	V
Asta 60 (37-22)	3	80.00	8.0	2	2	80.0	0.63	73.25	2.50	349.89	766.65	100.00	10.47	V
Asta 61 (42-27)	1	40.00	8.0	2	2	90.0	0.06	64.58	2.50	311.02	370.96	100.00	5.74	V
Asta 61 (42-27)	2	364.00	8.0	2	2	200.0	0.06	60.83	2.50	139.96	190.85	100.00	3.14	V
Asta 61 (42-27)	3	40.00	8.0	2	2	90.0	0.06	63.57	2.50	311.02	370.96	100.00	5.84	V
Asta 62 (27-232)	1	60.00	8.0	2	2	80.0	0.13	138.52	2.50	349.89	568.80	100.00	4.11	V
Asta 62 (27-232)	2	465.00	8.0	2	2	150.0	0.13	117.84	2.50	186.61	390.19	100.00	3.31	V
Asta 62 (27-232)	3	60.00	8.0	2	2	80.0	0.13	127.95	2.50	349.89	568.80	100.00	4.45	V
Asta 63 (37-32)	1	60.00	8.0	2	2	80.0	1.07	121.37	2.50	349.89	568.80	100.00	4.69	V
Asta 63 (37-32)	2	450.00	8.0	2	2	150.0	1.07	119.39	2.50	186.61	390.19	100.00	3.27	V
Asta 63 (37-32)	3	60.00	8.0	2	2	80.0	1.07	139.98	2.50	349.89	568.80	100.00	4.06	V
Asta 64 (32-47)	1	40.00	8.0	2	2	90.0	0.79	56.70	2.50	311.02	370.96	100.00	6.54	V
Asta 64 (32-47)	2	364.00	8.0	2	2	200.0	0.79	52.94	2.50	139.96	190.85	100.00	3.60	V
Asta 64 (32-47)	3	40.00	8.0	2	2	90.0	0.79	55.18	2.50	311.02	370.96	100.00	6.72	V
Asta 65 (232-32)	1	60.00	8.0	2	2	80.0	0.05	121.50	2.50	349.89	568.80	100.00	4.68	V
Asta 65 (232-32)	2	465.00	8.0	2	2	150.0	0.05	122.77	2.50	186.61	390.19	100.00	3.18	V
Asta 65 (232-32)	3	60.00	8.0	2	2	80.0	0.05	143.25	2.50	349.89	568.80	100.00	3.97	V
Asta 66 (52-37)	1	80.00	8.0	2	2	80.0	0.67	54.85	2.50	349.89	766.65	100.00	13.98	V
Asta 66 (52-37)	2	284.00	8.0	2	2	150.0	0.67	67.25	2.50	186.61	525.90	100.00	7.82	V
Asta 66 (52-37)	3	80.00	8.0	2	2	80.0	0.67	77.22	2.50	349.89	766.65	100.00	9.93	V
Asta 67 (72-42)	1	40.00	8.0	2	2	90.0	0.31	64.53	2.50	311.02	370.96	100.00	5.75	V
Asta 67 (72-42)	2	364.00	8.0	2	2	200.0	0.31	60.78	2.50	139.96	190.85	100.00	3.14	V
Asta 67 (72-42)	3	40.00	8.0	2	2	90.0	0.31	63.72	2.50	311.02	370.96	100.00	5.82	V
Asta 68 (42-237)	1	60.00	8.0	2	2	80.0	0.11	135.08	2.50	349.89	568.80	100.00	4.21	V
Asta 68 (42-237)	2	465.00	8.0	2	2	150.0	0.11	114.39	2.50	186.61	390.19	100.00	3.41	V
Asta 68 (42-237)	3	60.00	8.0	2	2	80.0	0.11	124.92	2.50	349.89	568.80	100.00	4.55	V
Asta 69 (52-47)	1	60.00	8.0	2	2	80.0	1.81	117.45	2.50	349.89	568.80	100.00	4.84	V
Asta 69 (52-47)	2	450.00	8.0	2	2	150.0	1.81	123.82	2.50	186.61	390.19	100.00	3.15	V
Asta 69 (52-47)	3	60.00	8.0	2	2	80.0	1.81	144.40	2.50	349.89	568.80	100.00	3.94	V
Asta 70 (47-77)	1	40.00	8.0	2	2	90.0	1.28	56.15	2.50	311.02	370.96	100.00	6.61	V
Asta 70 (47-77)	2	364.00	8.0	2	2	200.0	1.28	52.40	2.50	139.96	190.85	100.00	3.64	V
Asta 70 (47-77)	3	40.00	8.0	2	2	90.0	1.28	55.52	2.50	311.02	370.96	100.00	6.68	V
Asta 71 (237-47)	1	60.00	8.0	2	2	80.0	0.02	119.89	2.50	349.89	568.80	100.00	4.74	V
Asta 71 (237-47)	2	465.00	8.0	2	2	150.0	0.02	120.70	2.50	186.61	390.19	100.00	3.23	V
Asta 71 (237-47)	3	60.00	8.0	2	2	80.0	0.02	141.18	2.50	349.89	568.80	100.00	4.03	V
Asta 72 (67-52)	1	80.00	8.0	2	2	80.0	1.77	46.66	2.50	349.89	766.65	100.00	16.43	V
Asta 72 (67-52)	2	58.00	8.0	2	2	150.0	1.77	52.22	2.50	186.61	525.90	100.00	10.07	V
Asta 72 (67-52)	3	80.00	8.0	2	2	80.0	1.77	59.89	2.50	349.89	766.65	100.00	12.80	V
Asta 73 (82-67)	1	80.00	8.0	2	2	80.0	1.77	37.00	2.50	349.89	766.65	100.00	20.72	V
Asta 73 (82-67)	2	66.00	8.0	2	2	150.0	1.77	31.04	2.50	186.61	525.90	100.00	16.94	V
Asta 73 (82-67)	3	80.00	8.0	2	2	80.0	1.77	38.71	2.50	349.89	766.65	100.00	19.80	V
Asta 74 (102-72)	1	40.00	8.0	2	2	90.0	0.95	69.65	2.50	311.02	370.96	100.00	5.33	V
Asta 74 (102-72)	2	364.00	8.0	2	2	200.0	0.95	65.86	2.50	139.96	190.85	100.00	2.90	V
Asta 74 (102-72)	3	40.00	8.0	2	2	90.0	0.95	62.52	2.50	311.02	370.96	100.00	5.93	V
Asta 75 (72-242)	1	60.00	8.0	2	2	80.0	0.33	137.98	2.50	349.89	568.80	100.00	4.12	V
Asta 75 (72-242)	2	465.00	8.0	2	2	150.0	0.33	117.29	2.50	186.61	390.19	100.00	3.33	V
Asta 75 (72-242)	3	60.00	8.0	2	2	80.0	0.33	123.74	2.50	349.89	568.80	100.00	4.60	V
Asta 76 (82-77)	1	60.00	8.0	2	2	80.0	1.83	120.66	2.50	349.89	568.80	100.00	4.71	V
Asta 76 (82-77)	2	450.00	8.0	2	2	150.0	1.83	126.53	2.50	186.61	390.19	100.00	3.08	V
Asta 76 (82-77)	3	60.00	8.0	2	2	80.0	1.83	147.12	2.50	349.89	568.80	100.00	3.87	V
Asta 77 (77-107)	1	40.00	8.0	2	2	90.0	0.77	53.02	2.50	311.02	370.96	100.00	7.00	V

Asta 77 (77-107)	2	364.00	8.0	2	2	200.0	0.77	58.77	2.50	139.96	190.85	100.00	3.25	V
Asta 77 (77-107)	3	40.00	8.0	2	2	90.0	0.77	62.55	2.50	311.02	370.96	100.00	5.93	V
Asta 78 (242-77)	1	60.00	8.0	2	2	80.0	0.01	122.63	2.50	349.89	568.80	100.00	4.64	V
Asta 78 (242-77)	2	465.00	8.0	2	2	150.0	0.01	121.22	2.50	186.61	390.19	100.00	3.22	V
Asta 78 (242-77)	3	60.00	8.0	2	2	80.0	0.01	141.70	2.50	349.89	568.80	100.00	4.01	V
Asta 79 (97-82)	-	76.00	8.0	2	2	80.0	0.45	57.01	2.50	766.65	766.65	100.00	13.45	V
Asta 80 (112-97)	1	80.00	8.0	2	2	80.0	0.45	69.52	2.50	349.89	766.65	100.00	11.03	V
Asta 80 (112-97)	2	208.00	8.0	2	2	150.0	0.45	61.79	2.50	186.61	525.90	100.00	8.51	V
Asta 80 (112-97)	3	80.00	8.0	2	2	80.0	0.45	50.14	2.50	349.89	766.65	100.00	15.29	V
Asta 81 (102-117)	1	60.00	8.0	2	2	80.0	2.52	170.44	2.50	349.89	568.80	100.00	3.34	V
Asta 81 (102-117)	2	181.00	8.0	2	2	150.0	2.52	155.19	2.50	186.61	390.19	73.99	2.51	V
Asta 81 (102-117)	3	60.00	8.0	2	2	80.0	2.52	109.16	2.50	349.89	568.80	100.00	5.21	V
Asta 82 (112-107)	1	60.00	8.0	2	2	80.0	3.30	121.96	2.50	349.89	568.80	100.00	4.66	V
Asta 82 (112-107)	2	450.00	8.0	2	2	150.0	3.30	115.48	2.50	186.61	390.19	56.54	3.38	V
Asta 82 (112-107)	3	60.00	8.0	2	2	80.0	3.30	133.26	2.50	349.89	568.80	100.00	4.27	V
Asta 83 (122-107)	1	60.00	8.0	2	2	80.0	3.24	84.28	2.50	349.89	568.80	100.00	6.75	V
Asta 83 (122-107)	2	89.00	8.0	2	2	150.0	3.24	114.72	2.50	186.61	390.19	57.53	3.40	V
Asta 83 (122-107)	3	60.00	8.0	2	2	80.0	3.24	135.25	2.50	349.89	568.80	100.00	4.21	V
Asta 84 (142-112)	1	80.00	8.0	2	2	80.0	7.64	116.33	2.50	349.89	766.65	45.77	6.59	V
Asta 84 (142-112)	2	140.00	8.0	2	2	150.0	7.64	109.86	2.50	186.61	525.90	24.41	4.79	V
Asta 84 (142-112)	3	80.00	8.0	2	2	80.0	7.64	98.53	2.50	349.89	766.65	45.77	7.78	V
Asta 85 (117-122)	1	60.00	8.0	2	2	80.0	2.06	103.43	2.50	349.89	568.80	100.00	5.50	V
Asta 85 (117-122)	2	510.00	8.0	2	2	150.0	2.06	113.31	2.50	186.61	390.19	90.67	3.44	V
Asta 85 (117-122)	3	60.00	8.0	2	2	80.0	2.06	128.56	2.50	349.89	568.80	100.00	4.42	V
Asta 86 (117-127)	1	80.00	8.0	2	2	80.0	2.79	133.98	2.50	349.89	766.65	100.00	5.72	V
Asta 86 (117-127)	2	470.00	8.0	2	2	150.0	2.79	109.49	2.50	186.61	525.90	66.88	4.80	V
Asta 86 (117-127)	3	80.00	8.0	2	2	80.0	2.79	128.38	2.50	349.89	766.65	100.00	5.97	V
Asta 87 (122-137)	1	60.00	8.0	2	2	80.0	5.14	98.16	2.50	349.89	568.80	68.04	5.79	V
Asta 87 (122-137)	2	180.00	8.0	2	2	150.0	5.14	82.53	2.50	186.61	390.19	36.29	4.73	V
Asta 87 (122-137)	3	60.00	8.0	2	2	80.0	5.14	80.26	2.50	349.89	568.80	68.04	7.09	V
Asta 88 (127-132)	1	80.00	8.0	2	2	80.0	1.81	65.19	2.50	349.89	766.65	100.00	11.76	V
Asta 88 (127-132)	2	470.00	8.0	2	2	150.0	1.81	57.21	2.50	186.61	525.90	100.00	9.19	V
Asta 88 (127-132)	3	80.00	8.0	2	2	80.0	1.81	45.40	2.50	349.89	766.65	100.00	16.89	V
Asta 89 (137-132)	1	60.00	8.0	2	2	80.0	2.88	71.02	2.50	349.89	568.80	100.00	8.01	V
Asta 89 (137-132)	2	180.00	8.0	2	2	150.0	2.88	77.93	2.50	186.61	390.19	64.70	5.01	V
Asta 89 (137-132)	3	60.00	8.0	2	2	80.0	2.88	95.27	2.50	349.89	568.80	100.00	5.97	V
Asta 90 (132-157)	1	80.00	8.0	2	2	80.0	1.54	61.03	2.50	349.89	766.65	100.00	12.56	V
Asta 90 (132-157)	2	301.50	8.0	2	2	150.0	1.54	81.92	2.50	186.61	525.90	100.00	6.42	V
Asta 90 (132-157)	3	80.00	8.0	2	2	80.0	1.54	87.46	2.50	349.89	766.65	100.00	8.77	V
Asta 91 (137-152)	1	60.00	8.0	2	2	80.0	2.65	68.63	2.50	349.89	568.80	100.00	8.29	V
Asta 91 (137-152)	2	339.00	8.0	2	2	150.0	2.65	57.73	2.50	186.61	390.19	70.45	6.76	V
Asta 91 (137-152)	3	60.00	8.0	2	2	80.0	2.65	68.23	2.50	349.89	568.80	100.00	8.34	V
Asta 92 (142-147)	1	80.00	8.0	2	2	80.0	1.19	51.91	2.50	349.89	766.65	100.00	14.77	V
Asta 92 (142-147)	2	140.00	8.0	2	2	150.0	1.19	57.74	2.50	186.61	525.90	100.00	9.11	V
Asta 92 (142-147)	3	80.00	8.0	2	2	80.0	1.19	63.35	2.50	349.89	766.65	100.00	12.10	V
Asta 93 (152-142)	1	60.00	8.0	2	2	80.0	0.95	45.32	2.50	349.89	568.80	100.00	12.55	V
Asta 93 (152-142)	2	230.00	8.0	2	2	150.0	0.95	63.05	2.50	186.61	390.19	100.00	6.19	V
Asta 93 (152-142)	3	60.00	8.0	2	2	80.0	0.95	73.94	2.50	349.89	568.80	100.00	7.69	V
Asta 94 (157-147)	1	80.00	8.0	2	2	80.0	0.80	52.22	2.50	349.89	766.65	100.00	14.68	V
Asta 94 (157-147)	2	192.50	8.0	2	2	150.0	0.80	46.62	2.50	186.61	525.90	100.00	11.28	V
Asta 94 (157-147)	3	80.00	8.0	2	2	80.0	0.80	33.14	2.50	349.89	766.65	100.00	23.13	V
Asta 130 (68-53)	1	35.00	8.0	2	2	80.0	4.14	39.37	2.50	259.67	267.91	62.68	6.81	V
Asta 130 (68-53)	2	138.00	8.0	2	2	200.0	4.14	57.05	2.50	114.51	165.40	27.64	2.90	V
Asta 130 (68-53)	3	35.00	8.0	2	2	80.0	4.14	61.53	2.50	259.67	267.91	62.68	4.35	V
Asta 131 (63-58)	1	20.00	8.0	2	2	40.0	0.20	24.75	2.50	148.38	144.26	100.00	5.83	V
Asta 131 (63-58)	2	344.00	8.0	2	2	140.0	0.20	25.99	2.50	148.38	127.23	100.00	4.90	V
Asta 131 (63-58)	3	20.00	8.0	2	2	40.0	0.20	28.22	2.50	148.38	144.26	100.00	5.11	V
Asta 132 (58-68)	1	20.00	8.0	2	2	40.0	0.86	40.25	2.50	148.38	144.26	100.00	3.58	V
Asta 132 (58-68)	2	346.00	8.0	2	2	140.0	0.86	37.86	2.50	148.38	127.23	100.00	3.36	V
Asta 132 (58-68)	3	20.00	8.0	2	2	40.0	0.86	18.05	2.50	148.38	144.26	100.00	7.99	V
Asta 133 (88-58)	1	20.00	8.0	2	2	40.0	1.09	10.02	2.50	148.38	144.26	100.00	14.39	V
Asta 133 (88-58)	2	267.00	8.0	2	2	140.0	1.09	10.86	2.50	148.38	127.23	100.00	11.72	V
Asta 133 (88-58)	3	20.00	8.0	2	2	40.0	1.09	11.27	2.50	148.38	144.26	100.00	12.80	V
Asta 134 (93-63)	1	20.00	8.0	2	2	40.0	0.32	11.45	2.50	148.38	144.26	100.00	12.60	V
Asta 134 (93-63)	2	267.00	8.0	2	2	140.0	0.32	11.64	2.50	148.38	127.23	100.00	10.93	V
Asta 134 (93-63)	3	20.00	8.0	2	2	40.0	0.32	12.05	2.50	148.38	144.26	100.00	11.97	V
Asta 135 (83-68)	1	35.00	8.0	2	2	80.0	5.93	49.53	2.50	259.67	267.91	43.77	5.41	V
Asta 135 (83-68)	2	146.00	8.0	2	2	200.0	5.93	46.66	2.50	114.51	165.40	19.30	3.55	V
Asta 135 (83-68)	3	35.00	8.0	2	2	80.0	5.93	34.66	2.50	259.67	267.91	43.77	7.73	V

Asta 136 (98-83)	-	66.00	8.0	2	2	80.0	10.40	59.72	2.50	267.91	267.91	24.98	4.49	V
Asta 137 (88-93)	1	20.00	8.0	2	2	40.0	0.22	28.71	2.50	148.38	144.26	100.00	5.02	V
Asta 137 (88-93)	2	344.00	8.0	2	2	140.0	0.22	26.31	2.50	148.38	127.23	100.00	4.84	V
Asta 137 (88-93)	3	20.00	8.0	2	2	40.0	0.22	24.22	2.50	148.38	144.26	100.00	5.96	V
Asta 138 (98-88)	1	20.00	8.0	2	2	40.0	0.69	19.88	2.50	148.38	144.26	100.00	7.26	V
Asta 138 (98-88)	2	346.00	8.0	2	2	140.0	0.69	37.18	2.50	148.38	127.23	100.00	3.42	V
Asta 138 (98-88)	3	20.00	8.0	2	2	40.0	0.69	39.44	2.50	148.38	144.26	100.00	3.66	V
Asta 139 (113-98)	1	35.00	8.0	2	2	80.0	2.06	50.99	2.50	259.67	267.91	100.00	5.25	V
Asta 139 (113-98)	2	288.00	8.0	2	2	200.0	2.06	46.64	2.50	114.51	165.40	55.59	3.55	V
Asta 139 (113-98)	3	35.00	8.0	2	2	80.0	2.06	32.84	2.50	259.67	267.91	100.00	8.16	V
Asta 140 (143-113)	1	35.00	8.0	2	2	80.0	2.39	60.76	2.50	259.67	267.91	100.00	4.41	V
Asta 140 (143-113)	2	235.00	8.0	2	2	200.0	2.39	59.57	2.50	114.51	165.40	47.97	2.78	V
Asta 140 (143-113)	3	35.00	8.0	2	2	80.0	2.39	51.52	2.50	259.67	267.91	100.00	5.20	V
Asta 231 (15-5)	1	133.20	8.0	2	2	60.0	1.63	22.04	2.50	0.00	272.04	100.00	12.34	V
Asta 231 (15-5)	2	177.60	8.0	2	2	210.0	1.63	23.95	2.50	0.00	133.29	100.00	5.56	V
Asta 231 (15-5)	3	133.20	8.0	2	2	60.0	1.63	26.98	2.50	0.00	272.04	100.00	10.08	V
Asta 233 (20-10)	1	133.20	8.0	2	2	60.0	1.29	23.43	2.50	0.00	272.04	100.00	11.61	V
Asta 233 (20-10)	2	177.60	8.0	2	2	210.0	1.29	27.46	2.50	0.00	133.29	100.00	4.85	V
Asta 233 (20-10)	3	133.20	8.0	2	2	60.0	1.29	30.48	2.50	0.00	272.04	100.00	8.93	V
Asta 236 (30-15)	1	30.00	8.0	2	2	60.0	1.44	25.89	2.50	272.04	272.04	100.00	10.51	V
Asta 236 (30-15)	2	384.00	8.0	2	2	200.0	1.44	25.21	2.50	139.96	139.96	97.04	5.55	V
Asta 236 (30-15)	3	30.00	8.0	2	2	60.0	1.44	24.84	2.50	272.04	272.04	100.00	10.95	V
Asta 238 (35-20)	1	30.00	8.0	2	2	60.0	1.22	23.67	2.50	272.04	272.04	100.00	11.49	V
Asta 238 (35-20)	2	384.00	8.0	2	2	200.0	1.22	24.70	2.50	139.96	139.96	100.00	5.67	V
Asta 238 (35-20)	3	30.00	8.0	2	2	60.0	1.22	25.38	2.50	272.04	272.04	100.00	10.72	V
Asta 241 (45-30)	1	30.00	8.0	2	2	60.0	0.01	25.85	2.50	272.04	272.04	100.00	10.53	V
Asta 241 (45-30)	2	384.00	8.0	2	2	200.0	0.01	25.17	2.50	139.96	139.96	100.00	5.56	V
Asta 241 (45-30)	3	30.00	8.0	2	2	60.0	0.01	24.90	2.50	272.04	272.04	100.00	10.92	V
Asta 243 (50-35)	1	30.00	8.0	2	2	60.0	0.17	25.26	2.50	272.04	272.04	100.00	10.77	V
Asta 243 (50-35)	2	384.00	8.0	2	2	200.0	0.17	24.58	2.50	139.96	139.96	100.00	5.69	V
Asta 243 (50-35)	3	30.00	8.0	2	2	60.0	0.17	24.37	2.50	272.04	272.04	100.00	11.16	V
Asta 246 (75-45)	1	30.00	8.0	2	2	60.0	1.00	25.73	2.50	272.04	272.04	100.00	10.57	V
Asta 246 (75-45)	2	384.00	8.0	2	2	200.0	1.00	25.06	2.50	139.96	139.96	100.00	5.59	V
Asta 246 (75-45)	3	30.00	8.0	2	2	60.0	1.00	24.96	2.50	272.04	272.04	100.00	10.90	V
Asta 248 (80-50)	1	30.00	8.0	2	2	60.0	1.26	25.55	2.50	272.04	272.04	100.00	10.65	V
Asta 248 (80-50)	2	384.00	8.0	2	2	200.0	1.26	24.87	2.50	139.96	139.96	100.00	5.63	V
Asta 248 (80-50)	3	30.00	8.0	2	2	60.0	1.26	23.83	2.50	272.04	272.04	100.00	11.42	V
Asta 251 (105-75)	1	30.00	8.0	2	2	60.0	1.52	27.55	2.50	272.04	272.04	100.00	9.88	V
Asta 251 (105-75)	2	384.00	8.0	2	2	200.0	1.52	26.87	2.50	139.96	139.96	92.00	5.21	V
Asta 251 (105-75)	3	30.00	8.0	2	2	60.0	1.52	23.91	2.50	272.04	272.04	100.00	11.38	V
Asta 253 (110-80)	1	30.00	8.0	2	2	60.0	1.20	29.89	2.50	272.04	272.04	100.00	9.10	V
Asta 253 (110-80)	2	384.00	8.0	2	2	200.0	1.20	29.21	2.50	139.96	139.96	100.00	4.79	V
Asta 253 (110-80)	3	30.00	8.0	2	2	60.0	1.20	22.25	2.50	272.04	272.04	100.00	12.23	V

1.2.3.7 Torsione SLU

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");

Blocco : Tratto nel quale le staffe vengono mantenute costanti

1 : Estremo iniziale;

2 : Mediano;

3 : Estremo finale;

Ltr : Lunghezza del blocco;

Azioni Sollecitanti

Tsd : Valore del momento torcente di calcolo;

cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;

Azioni Resistenti

TRd : Valore del momento torcente resistente;

Ast : Area delle staffe necessarie per la torsione;

Along : Area delle armature longitudinali necessarie per la torsione;

S : Coefficiente di sicurezza;

Esito : V = Verificato; NV = Non Verificato;

Trave	Blocco	Ltr [cm]	Ast [mm ²]	Along [mm ²]	Tsd [kNm]	cot(θ)	TRd [kNm]	S	Esito
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Asta 7 (16-21)	1	171.00	0.00	0.00	0.884	2.50	0.00	100.00	V
Asta 7 (16-21)	2	228.00	0.00	0.00	0.884	2.50	0.00	100.00	V
Asta 7 (16-21)	3	171.00	0.00	0.00	0.884	2.50	0.00	100.00	V
Asta 10 (21-36)	1	133.20	0.00	0.00	1.24	2.50	0.00	100.00	V
Asta 10 (21-36)	2	177.60	0.00	0.00	1.24	2.50	0.00	100.00	V
Asta 10 (21-36)	3	133.20	0.00	0.00	1.24	2.50	0.00	100.00	V
Asta 13 (31-36)	1	171.00	0.00	0.00	0.004	2.50	0.00	100.00	V
Asta 13 (31-36)	2	228.00	0.00	0.00	0.004	2.50	0.00	100.00	V
Asta 13 (31-36)	3	171.00	0.00	0.00	0.004	2.50	0.00	100.00	V
Asta 16 (36-51)	1	133.20	0.00	0.00	1.401	2.50	0.00	100.00	V
Asta 16 (36-51)	2	177.60	0.00	0.00	1.401	2.50	0.00	100.00	V
Asta 16 (36-51)	3	133.20	0.00	0.00	1.401	2.50	0.00	100.00	V
Asta 19 (46-51)	1	171.00	0.00	0.00	1.065	2.50	0.00	100.00	V
Asta 19 (46-51)	2	228.00	0.00	0.00	1.065	2.50	0.00	100.00	V
Asta 19 (46-51)	3	171.00	0.00	0.00	1.065	2.50	0.00	100.00	V
Asta 22 (66-51)	1	60.90	0.00	0.00	27.338	2.50	0.00	100.00	V
Asta 22 (66-51)	2	81.20	0.00	0.00	27.338	2.50	0.00	100.00	V
Asta 22 (66-51)	3	60.90	0.00	0.00	27.338	2.50	0.00	100.00	V
Asta 24 (56-66)	1	30.00	0.00	0.00	1.658	2.50	0.00	100.00	V
Asta 24 (56-66)	2	306.00	0.00	0.00	1.658	2.50	0.00	100.00	V
Asta 24 (56-66)	3	30.00	0.00	0.00	1.658	2.50	0.00	100.00	V
Asta 27 (81-66)	1	63.30	0.00	0.00	20.494	2.50	0.00	100.00	V
Asta 27 (81-66)	2	84.40	0.00	0.00	20.494	2.50	0.00	100.00	V
Asta 27 (81-66)	3	63.30	0.00	0.00	20.494	2.50	0.00	100.00	V
Asta 30 (76-81)	1	171.00	0.00	0.00	1.35	2.50	0.00	100.00	V
Asta 30 (76-81)	2	228.00	0.00	0.00	1.35	2.50	0.00	100.00	V
Asta 30 (76-81)	3	171.00	0.00	0.00	1.35	2.50	0.00	100.00	V
Asta 33 (96-81)	-	0.00	0.00	0.00	40.925	2.50	0.00	100.00	V
Asta 35 (86-96)	1	109.80	0.00	0.00	6.765	2.50	0.00	100.00	V
Asta 35 (86-96)	2	146.40	0.00	0.00	6.765	2.50	0.00	100.00	V
Asta 35 (86-96)	3	109.80	0.00	0.00	6.765	2.50	0.00	100.00	V
Asta 36 (111-96)	1	105.90	0.00	0.00	12.18	2.50	0.00	100.00	V
Asta 36 (111-96)	2	141.20	0.00	0.00	12.18	2.50	0.00	100.00	V
Asta 36 (111-96)	3	105.90	0.00	0.00	12.18	2.50	0.00	100.00	V
Asta 38 (106-111)	1	171.00	0.00	0.00	2.308	2.50	0.00	100.00	V
Asta 38 (106-111)	2	228.00	0.00	0.00	2.308	2.50	0.00	100.00	V
Asta 38 (106-111)	3	171.00	0.00	0.00	2.308	2.50	0.00	100.00	V
Asta 40 (111-141)	1	90.00	0.00	0.00	3.287	2.50	0.00	100.00	V
Asta 40 (111-141)	2	120.00	0.00	0.00	3.287	2.50	0.00	100.00	V
Asta 40 (111-141)	3	90.00	0.00	0.00	3.287	2.50	0.00	100.00	V
Asta 42 (126-116)	1	184.50	0.00	0.00	4.227	2.50	0.00	100.00	V
Asta 42 (126-116)	2	246.00	0.00	0.00	4.227	2.50	0.00	100.00	V
Asta 42 (126-116)	3	184.50	0.00	0.00	4.227	2.50	0.00	100.00	V
Asta 43 (121-136)	1	85.50	0.00	0.00	0.722	2.50	0.00	100.00	V
Asta 43 (121-136)	2	114.00	0.00	0.00	0.722	2.50	0.00	100.00	V
Asta 43 (121-136)	3	85.50	0.00	0.00	0.722	2.50	0.00	100.00	V
Asta 44 (131-126)	1	189.00	0.00	0.00	1.066	2.50	0.00	100.00	V
Asta 44 (131-126)	2	252.00	0.00	0.00	1.066	2.50	0.00	100.00	V
Asta 44 (131-126)	3	189.00	0.00	0.00	1.066	2.50	0.00	100.00	V
Asta 45 (136-131)	1	90.00	0.00	0.00	1.993	2.50	0.00	100.00	V
Asta 45 (136-131)	2	120.00	0.00	0.00	1.993	2.50	0.00	100.00	V
Asta 45 (136-131)	3	90.00	0.00	0.00	1.993	2.50	0.00	100.00	V
Asta 46 (156-131)	1	138.45	0.00	0.00	0.695	2.50	0.00	100.00	V
Asta 46 (156-131)	2	184.60	0.00	0.00	0.695	2.50	0.00	100.00	V
Asta 46 (156-131)	3	138.45	0.00	0.00	0.695	2.50	0.00	100.00	V
Asta 47 (136-151)	1	137.70	0.00	0.00	0.567	2.50	0.00	100.00	V
Asta 47 (136-151)	2	183.60	0.00	0.00	0.567	2.50	0.00	100.00	V
Asta 47 (136-151)	3	137.70	0.00	0.00	0.567	2.50	0.00	100.00	V
Asta 49 (151-141)	1	100.50	0.00	0.00	7.872	2.50	0.00	100.00	V
Asta 49 (151-141)	2	134.00	0.00	0.00	7.872	2.50	0.00	100.00	V
Asta 49 (151-141)	3	100.50	0.00	0.00	7.872	2.50	0.00	100.00	V
Asta 51 (12-2)	1	40.00	0.00	0.00	3.386	2.50	0.00	100.00	V
Asta 51 (12-2)	2	364.00	0.00	0.00	3.386	2.50	0.00	100.00	V
Asta 51 (12-2)	3	40.00	0.00	0.00	3.386	2.50	0.00	100.00	V
Asta 52 (2-222)	1	60.00	0.00	0.00	0.839	2.50	0.00	100.00	V
Asta 52 (2-222)	2	465.00	0.00	0.00	0.839	2.50	0.00	100.00	V
Asta 52 (2-222)	3	60.00	0.00	0.00	0.839	2.50	0.00	100.00	V
Asta 53 (7-17)	1	40.00	0.00	0.00	1.573	2.50	0.00	100.00	V
Asta 53 (7-17)	2	364.00	0.00	0.00	1.573	2.50	0.00	100.00	V

Asta 53 (7-17)	3	40.00	0.00	0.00	1.573	2.50	0.00	100.00	V
Asta 54 (222-7)	1	60.00	0.00	0.00	1.562	2.50	0.00	100.00	V
Asta 54 (222-7)	2	465.00	0.00	0.00	1.562	2.50	0.00	100.00	V
Asta 54 (222-7)	3	60.00	0.00	0.00	1.562	2.50	0.00	100.00	V
Asta 55 (27-12)	1	40.00	0.00	0.00	0.971	2.50	0.00	100.00	V
Asta 55 (27-12)	2	364.00	0.00	0.00	0.971	2.50	0.00	100.00	V
Asta 55 (27-12)	3	40.00	0.00	0.00	0.971	2.50	0.00	100.00	V
Asta 56 (12-227)	1	60.00	0.00	0.00	0.08	2.50	0.00	100.00	V
Asta 56 (12-227)	2	465.00	0.00	0.00	0.08	2.50	0.00	100.00	V
Asta 56 (12-227)	3	60.00	0.00	0.00	0.08	2.50	0.00	100.00	V
Asta 57 (22-17)	1	80.00	0.00	0.00	6.014	2.50	0.00	100.00	V
Asta 57 (22-17)	2	410.00	0.00	0.00	6.014	2.50	0.00	100.00	V
Asta 57 (22-17)	3	80.00	0.00	0.00	6.014	2.50	0.00	100.00	V
Asta 58 (17-32)	1	40.00	0.00	0.00	2.391	2.50	0.00	100.00	V
Asta 58 (17-32)	2	364.00	0.00	0.00	2.391	2.50	0.00	100.00	V
Asta 58 (17-32)	3	40.00	0.00	0.00	2.391	2.50	0.00	100.00	V
Asta 59 (227-17)	1	60.00	0.00	0.00	1.84	2.50	0.00	100.00	V
Asta 59 (227-17)	2	465.00	0.00	0.00	1.84	2.50	0.00	100.00	V
Asta 59 (227-17)	3	60.00	0.00	0.00	1.84	2.50	0.00	100.00	V
Asta 60 (37-22)	1	80.00	0.00	0.00	7.139	2.50	0.00	100.00	V
Asta 60 (37-22)	2	284.00	0.00	0.00	7.139	2.50	0.00	100.00	V
Asta 60 (37-22)	3	80.00	0.00	0.00	7.139	2.50	0.00	100.00	V
Asta 61 (42-27)	1	40.00	0.00	0.00	0.074	2.50	0.00	100.00	V
Asta 61 (42-27)	2	364.00	0.00	0.00	0.074	2.50	0.00	100.00	V
Asta 61 (42-27)	3	40.00	0.00	0.00	0.074	2.50	0.00	100.00	V
Asta 62 (27-232)	1	60.00	0.00	0.00	0.047	2.50	0.00	100.00	V
Asta 62 (27-232)	2	465.00	0.00	0.00	0.047	2.50	0.00	100.00	V
Asta 62 (27-232)	3	60.00	0.00	0.00	0.047	2.50	0.00	100.00	V
Asta 63 (37-32)	1	60.00	0.00	0.00	4.696	2.50	0.00	100.00	V
Asta 63 (37-32)	2	450.00	0.00	0.00	4.696	2.50	0.00	100.00	V
Asta 63 (37-32)	3	60.00	0.00	0.00	4.696	2.50	0.00	100.00	V
Asta 64 (32-47)	1	40.00	0.00	0.00	0.38	2.50	0.00	100.00	V
Asta 64 (32-47)	2	364.00	0.00	0.00	0.38	2.50	0.00	100.00	V
Asta 64 (32-47)	3	40.00	0.00	0.00	0.38	2.50	0.00	100.00	V
Asta 65 (232-32)	1	60.00	0.00	0.00	0.503	2.50	0.00	100.00	V
Asta 65 (232-32)	2	465.00	0.00	0.00	0.503	2.50	0.00	100.00	V
Asta 65 (232-32)	3	60.00	0.00	0.00	0.503	2.50	0.00	100.00	V
Asta 66 (52-37)	1	80.00	0.00	0.00	3.175	2.50	0.00	100.00	V
Asta 66 (52-37)	2	284.00	0.00	0.00	3.175	2.50	0.00	100.00	V
Asta 66 (52-37)	3	80.00	0.00	0.00	3.175	2.50	0.00	100.00	V
Asta 67 (72-42)	1	40.00	0.00	0.00	0.778	2.50	0.00	100.00	V
Asta 67 (72-42)	2	364.00	0.00	0.00	0.778	2.50	0.00	100.00	V
Asta 67 (72-42)	3	40.00	0.00	0.00	0.778	2.50	0.00	100.00	V
Asta 68 (42-237)	1	60.00	0.00	0.00	0.124	2.50	0.00	100.00	V
Asta 68 (42-237)	2	465.00	0.00	0.00	0.124	2.50	0.00	100.00	V
Asta 68 (42-237)	3	60.00	0.00	0.00	0.124	2.50	0.00	100.00	V
Asta 69 (52-47)	1	60.00	0.00	0.00	0.484	2.50	0.00	100.00	V
Asta 69 (52-47)	2	450.00	0.00	0.00	0.484	2.50	0.00	100.00	V
Asta 69 (52-47)	3	60.00	0.00	0.00	0.484	2.50	0.00	100.00	V
Asta 70 (47-77)	1	40.00	0.00	0.00	1.096	2.50	0.00	100.00	V
Asta 70 (47-77)	2	364.00	0.00	0.00	1.096	2.50	0.00	100.00	V
Asta 70 (47-77)	3	40.00	0.00	0.00	1.096	2.50	0.00	100.00	V
Asta 71 (237-47)	1	60.00	0.00	0.00	0.253	2.50	0.00	100.00	V
Asta 71 (237-47)	2	465.00	0.00	0.00	0.253	2.50	0.00	100.00	V
Asta 71 (237-47)	3	60.00	0.00	0.00	0.253	2.50	0.00	100.00	V
Asta 72 (67-52)	1	80.00	0.00	0.00	2.506	2.50	0.00	100.00	V
Asta 72 (67-52)	2	58.00	0.00	0.00	2.506	2.50	0.00	100.00	V
Asta 72 (67-52)	3	80.00	0.00	0.00	2.506	2.50	0.00	100.00	V
Asta 73 (82-67)	1	80.00	0.00	0.00	2.506	2.50	0.00	100.00	V
Asta 73 (82-67)	2	66.00	0.00	0.00	2.506	2.50	0.00	100.00	V
Asta 73 (82-67)	3	80.00	0.00	0.00	2.506	2.50	0.00	100.00	V
Asta 74 (102-72)	1	40.00	0.00	0.00	0.596	2.50	0.00	100.00	V
Asta 74 (102-72)	2	364.00	0.00	0.00	0.596	2.50	0.00	100.00	V
Asta 74 (102-72)	3	40.00	0.00	0.00	0.596	2.50	0.00	100.00	V
Asta 75 (72-242)	1	60.00	0.00	0.00	0.083	2.50	0.00	100.00	V
Asta 75 (72-242)	2	465.00	0.00	0.00	0.083	2.50	0.00	100.00	V
Asta 75 (72-242)	3	60.00	0.00	0.00	0.083	2.50	0.00	100.00	V
Asta 76 (82-77)	1	60.00	0.00	0.00	5.741	2.50	0.00	100.00	V
Asta 76 (82-77)	2	450.00	0.00	0.00	5.741	2.50	0.00	100.00	V

Asta 76 (82-77)	3	60.00	0.00	0.00	5.741	2.50	0.00	100.00	V
Asta 77 (77-107)	1	40.00	0.00	0.00	1.735	2.50	0.00	100.00	V
Asta 77 (77-107)	2	364.00	0.00	0.00	1.735	2.50	0.00	100.00	V
Asta 77 (77-107)	3	40.00	0.00	0.00	1.735	2.50	0.00	100.00	V
Asta 78 (242-77)	1	60.00	0.00	0.00	1.145	2.50	0.00	100.00	V
Asta 78 (242-77)	2	465.00	0.00	0.00	1.145	2.50	0.00	100.00	V
Asta 78 (242-77)	3	60.00	0.00	0.00	1.145	2.50	0.00	100.00	V
Asta 79 (97-82)	-	76.00	0.00	0.00	9.027	2.50	0.00	100.00	V
Asta 80 (112-97)	1	80.00	0.00	0.00	9.027	2.50	0.00	100.00	V
Asta 80 (112-97)	2	208.00	0.00	0.00	9.027	2.50	0.00	100.00	V
Asta 80 (112-97)	3	80.00	0.00	0.00	9.027	2.50	0.00	100.00	V
Asta 81 (102-117)	1	60.00	0.00	0.00	16.031	2.50	0.00	100.00	V
Asta 81 (102-117)	2	181.00	0.00	0.00	16.031	2.50	0.00	100.00	V
Asta 81 (102-117)	3	60.00	0.00	0.00	16.031	2.50	0.00	100.00	V
Asta 82 (112-107)	1	60.00	0.00	0.00	15.057	2.50	0.00	100.00	V
Asta 82 (112-107)	2	450.00	0.00	0.00	15.057	2.50	0.00	100.00	V
Asta 82 (112-107)	3	60.00	0.00	0.00	15.057	2.50	0.00	100.00	V
Asta 83 (122-107)	1	60.00	0.00	0.00	9.635	2.50	0.00	100.00	V
Asta 83 (122-107)	2	89.00	0.00	0.00	9.635	2.50	0.00	100.00	V
Asta 83 (122-107)	3	60.00	0.00	0.00	9.635	2.50	0.00	100.00	V
Asta 84 (142-112)	1	80.00	0.00	0.00	7.799	2.50	0.00	100.00	V
Asta 84 (142-112)	2	140.00	0.00	0.00	7.799	2.50	0.00	100.00	V
Asta 84 (142-112)	3	80.00	0.00	0.00	7.799	2.50	0.00	100.00	V
Asta 85 (117-122)	1	60.00	0.00	0.00	6.94	2.50	0.00	100.00	V
Asta 85 (117-122)	2	510.00	0.00	0.00	6.94	2.50	0.00	100.00	V
Asta 85 (117-122)	3	60.00	0.00	0.00	6.94	2.50	0.00	100.00	V
Asta 86 (117-127)	1	80.00	0.00	0.00	27.225	2.50	0.00	100.00	V
Asta 86 (117-127)	2	470.00	0.00	0.00	27.225	2.50	0.00	100.00	V
Asta 86 (117-127)	3	80.00	0.00	0.00	27.225	2.50	0.00	100.00	V
Asta 87 (122-137)	1	60.00	0.00	0.00	14.063	2.50	0.00	100.00	V
Asta 87 (122-137)	2	180.00	0.00	0.00	14.063	2.50	0.00	100.00	V
Asta 87 (122-137)	3	60.00	0.00	0.00	14.063	2.50	0.00	100.00	V
Asta 88 (127-132)	1	80.00	0.00	0.00	1.575	2.50	0.00	100.00	V
Asta 88 (127-132)	2	470.00	0.00	0.00	1.575	2.50	0.00	100.00	V
Asta 88 (127-132)	3	80.00	0.00	0.00	1.575	2.50	0.00	100.00	V
Asta 89 (137-132)	1	60.00	0.00	0.00	14.785	2.50	0.00	100.00	V
Asta 89 (137-132)	2	180.00	0.00	0.00	14.785	2.50	0.00	100.00	V
Asta 89 (137-132)	3	60.00	0.00	0.00	14.785	2.50	0.00	100.00	V
Asta 90 (132-157)	1	80.00	0.00	0.00	0.432	2.50	0.00	100.00	V
Asta 90 (132-157)	2	301.50	0.00	0.00	0.432	2.50	0.00	100.00	V
Asta 90 (132-157)	3	80.00	0.00	0.00	0.432	2.50	0.00	100.00	V
Asta 91 (137-152)	1	60.00	0.00	0.00	4.28	2.50	0.00	100.00	V
Asta 91 (137-152)	2	339.00	0.00	0.00	4.28	2.50	0.00	100.00	V
Asta 91 (137-152)	3	60.00	0.00	0.00	4.28	2.50	0.00	100.00	V
Asta 92 (142-147)	1	80.00	0.00	0.00	6.853	2.50	0.00	100.00	V
Asta 92 (142-147)	2	140.00	0.00	0.00	6.853	2.50	0.00	100.00	V
Asta 92 (142-147)	3	80.00	0.00	0.00	6.853	2.50	0.00	100.00	V
Asta 93 (152-142)	1	60.00	0.00	0.00	16.737	2.50	0.00	100.00	V
Asta 93 (152-142)	2	230.00	0.00	0.00	16.737	2.50	0.00	100.00	V
Asta 93 (152-142)	3	60.00	0.00	0.00	16.737	2.50	0.00	100.00	V
Asta 94 (157-147)	1	80.00	0.00	0.00	13.602	2.50	0.00	100.00	V
Asta 94 (157-147)	2	192.50	0.00	0.00	13.602	2.50	0.00	100.00	V
Asta 94 (157-147)	3	80.00	0.00	0.00	13.602	2.50	0.00	100.00	V
Asta 130 (68-53)	1	35.00	0.00	0.00	8.039	2.50	0.00	100.00	V
Asta 130 (68-53)	2	138.00	0.00	0.00	8.039	2.50	0.00	100.00	V
Asta 130 (68-53)	3	35.00	0.00	0.00	8.039	2.50	0.00	100.00	V
Asta 131 (63-58)	1	20.00	0.00	0.00	0.668	2.50	0.00	100.00	V
Asta 131 (63-58)	2	344.00	0.00	0.00	0.586	2.50	0.00	100.00	V
Asta 131 (63-58)	3	20.00	0.00	0.00	0.34	2.50	0.00	100.00	V
Asta 132 (58-68)	1	20.00	0.00	0.00	0.991	2.50	0.00	100.00	V
Asta 132 (58-68)	2	346.00	0.00	0.00	0.915	2.50	0.00	100.00	V
Asta 132 (58-68)	3	20.00	0.00	0.00	0.026	2.50	0.00	100.00	V
Asta 133 (88-58)	1	20.00	0.00	0.00	0.291	2.50	0.00	100.00	V
Asta 133 (88-58)	2	267.00	0.00	0.00	0.291	2.50	0.00	100.00	V
Asta 133 (88-58)	3	20.00	0.00	0.00	0.291	2.50	0.00	100.00	V
Asta 134 (93-63)	1	20.00	0.00	0.00	0.016	2.50	0.00	100.00	V
Asta 134 (93-63)	2	267.00	0.00	0.00	0.016	2.50	0.00	100.00	V
Asta 134 (93-63)	3	20.00	0.00	0.00	0.016	2.50	0.00	100.00	V
Asta 135 (83-68)	1	35.00	0.00	0.00	5.996	2.50	0.00	100.00	V

Asta 135 (83-68)	2	146.00	0.00	0.00	5.996	2.50	0.00	100.00	V
Asta 135 (83-68)	3	35.00	0.00	0.00	5.996	2.50	0.00	100.00	V
Asta 136 (98-83)	-	66.00	0.00	0.00	10.026	2.50	0.00	100.00	V
Asta 137 (88-93)	1	20.00	0.00	0.00	0.789	2.50	0.00	100.00	V
Asta 137 (88-93)	2	344.00	0.00	0.00	0.707	2.50	0.00	100.00	V
Asta 137 (88-93)	3	20.00	0.00	0.00	0.207	2.50	0.00	100.00	V
Asta 138 (98-88)	1	20.00	0.00	0.00	0.576	2.50	0.00	100.00	V
Asta 138 (98-88)	2	346.00	0.00	0.00	0.499	2.50	0.00	100.00	V
Asta 138 (98-88)	3	20.00	0.00	0.00	0.46	2.50	0.00	100.00	V
Asta 139 (113-98)	1	35.00	0.00	0.00	1.30	2.50	0.00	100.00	V
Asta 139 (113-98)	2	288.00	0.00	0.00	1.30	2.50	0.00	100.00	V
Asta 139 (113-98)	3	35.00	0.00	0.00	1.30	2.50	0.00	100.00	V
Asta 140 (143-113)	1	35.00	0.00	0.00	5.323	2.50	0.00	100.00	V
Asta 140 (143-113)	2	235.00	0.00	0.00	5.323	2.50	0.00	100.00	V
Asta 140 (143-113)	3	35.00	0.00	0.00	5.323	2.50	0.00	100.00	V
Asta 231 (15-5)	1	133.20	0.00	0.00	3.439	2.50	0.00	100.00	V
Asta 231 (15-5)	2	177.60	0.00	0.00	3.439	2.50	0.00	100.00	V
Asta 231 (15-5)	3	133.20	0.00	0.00	3.439	2.50	0.00	100.00	V
Asta 233 (20-10)	1	133.20	0.00	0.00	1.845	2.50	0.00	100.00	V
Asta 233 (20-10)	2	177.60	0.00	0.00	1.845	2.50	0.00	100.00	V
Asta 233 (20-10)	3	133.20	0.00	0.00	1.845	2.50	0.00	100.00	V
Asta 236 (30-15)	1	30.00	0.00	0.00	0.702	2.50	0.00	100.00	V
Asta 236 (30-15)	2	384.00	0.00	0.00	0.702	2.50	0.00	100.00	V
Asta 236 (30-15)	3	30.00	0.00	0.00	0.702	2.50	0.00	100.00	V
Asta 238 (35-20)	1	30.00	0.00	0.00	0.421	2.50	0.00	100.00	V
Asta 238 (35-20)	2	384.00	0.00	0.00	0.421	2.50	0.00	100.00	V
Asta 238 (35-20)	3	30.00	0.00	0.00	0.421	2.50	0.00	100.00	V
Asta 241 (45-30)	1	30.00	0.00	0.00	0.119	2.50	0.00	100.00	V
Asta 241 (45-30)	2	384.00	0.00	0.00	0.119	2.50	0.00	100.00	V
Asta 241 (45-30)	3	30.00	0.00	0.00	0.119	2.50	0.00	100.00	V
Asta 243 (50-35)	1	30.00	0.00	0.00	0.122	2.50	0.00	100.00	V
Asta 243 (50-35)	2	384.00	0.00	0.00	0.122	2.50	0.00	100.00	V
Asta 243 (50-35)	3	30.00	0.00	0.00	0.122	2.50	0.00	100.00	V
Asta 246 (75-45)	1	30.00	0.00	0.00	0.199	2.50	0.00	100.00	V
Asta 246 (75-45)	2	384.00	0.00	0.00	0.199	2.50	0.00	100.00	V
Asta 246 (75-45)	3	30.00	0.00	0.00	0.199	2.50	0.00	100.00	V
Asta 248 (80-50)	1	30.00	0.00	0.00	0.01	2.50	0.00	100.00	V
Asta 248 (80-50)	2	384.00	0.00	0.00	0.01	2.50	0.00	100.00	V
Asta 248 (80-50)	3	30.00	0.00	0.00	0.01	2.50	0.00	100.00	V
Asta 251 (105-75)	1	30.00	0.00	0.00	2.75	2.50	0.00	100.00	V
Asta 251 (105-75)	2	384.00	0.00	0.00	2.75	2.50	0.00	100.00	V
Asta 251 (105-75)	3	30.00	0.00	0.00	2.75	2.50	0.00	100.00	V
Asta 253 (110-80)	1	30.00	0.00	0.00	2.001	2.50	0.00	100.00	V
Asta 253 (110-80)	2	384.00	0.00	0.00	2.001	2.50	0.00	100.00	V
Asta 253 (110-80)	3	30.00	0.00	0.00	2.001	2.50	0.00	100.00	V

1.2.3.8 Torsione SLV

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");
 Blocco : Tratto nel quale le staffe vengono mantenute costanti
 1 : Estremo iniziale;
 2 : Mediano;
 3 : Estremo finale;
 Ltr : Lunghezza del blocco;
 Azioni Sollecitanti
 TSd : Valore del momento torcente di calcolo;
 cot(θ) : Cotangente dell'angolo θ di inclinazione delle bielle;
 Azioni Resistenti
 TRd : Valore del momento torcente resistente;
 Ast : Area delle staffe necessarie per la torsione;
 Along : Area delle armature longitudinali necessarie per la torsione;
 S : Coefficiente di sicurezza;
 Esito : V = Verificato; NV = Non Verificato;

Trave	Blocco	Ltr [cm]	Ast [mm²]	Along [mm²]	Tsd [kNm]	cot(θ)	Trd [kNm]	S	Esito
Asta 7 (16-21)	1	171.00	0.00	0.00	3.07	2.50	0.00	100.00	V
Asta 7 (16-21)	2	228.00	0.00	0.00	3.07	2.50	0.00	100.00	V
Asta 7 (16-21)	3	171.00	0.00	0.00	3.07	2.50	0.00	100.00	V
Asta 10 (21-36)	1	133.20	0.00	0.00	2.651	2.50	0.00	100.00	V
Asta 10 (21-36)	2	177.60	0.00	0.00	2.651	2.50	0.00	100.00	V
Asta 10 (21-36)	3	133.20	0.00	0.00	2.651	2.50	0.00	100.00	V
Asta 13 (31-36)	1	171.00	0.00	0.00	0.767	2.50	0.00	100.00	V
Asta 13 (31-36)	2	228.00	0.00	0.00	0.767	2.50	0.00	100.00	V
Asta 13 (31-36)	3	171.00	0.00	0.00	0.767	2.50	0.00	100.00	V
Asta 16 (36-51)	1	133.20	0.00	0.00	3.056	2.50	0.00	100.00	V
Asta 16 (36-51)	2	177.60	0.00	0.00	3.056	2.50	0.00	100.00	V
Asta 16 (36-51)	3	133.20	0.00	0.00	3.056	2.50	0.00	100.00	V
Asta 19 (46-51)	1	171.00	0.00	0.00	1.615	2.50	0.00	100.00	V
Asta 19 (46-51)	2	228.00	0.00	0.00	1.615	2.50	0.00	100.00	V
Asta 19 (46-51)	3	171.00	0.00	0.00	1.615	2.50	0.00	100.00	V
Asta 22 (66-51)	1	60.90	0.00	0.00	20.931	2.50	0.00	100.00	V
Asta 22 (66-51)	2	81.20	0.00	0.00	20.931	2.50	0.00	100.00	V
Asta 22 (66-51)	3	60.90	0.00	0.00	20.931	2.50	0.00	100.00	V
Asta 24 (56-66)	1	30.00	0.00	0.00	3.477	2.50	0.00	100.00	V
Asta 24 (56-66)	2	306.00	0.00	0.00	3.477	2.50	0.00	100.00	V
Asta 24 (56-66)	3	30.00	0.00	0.00	3.477	2.50	0.00	100.00	V
Asta 27 (81-66)	1	63.30	0.00	0.00	16.138	2.50	0.00	100.00	V
Asta 27 (81-66)	2	84.40	0.00	0.00	16.138	2.50	0.00	100.00	V
Asta 27 (81-66)	3	63.30	0.00	0.00	16.138	2.50	0.00	100.00	V
Asta 30 (76-81)	1	171.00	0.00	0.00	2.979	2.50	0.00	100.00	V
Asta 30 (76-81)	2	228.00	0.00	0.00	2.979	2.50	0.00	100.00	V
Asta 30 (76-81)	3	171.00	0.00	0.00	2.979	2.50	0.00	100.00	V
Asta 33 (96-81)	-	0.00	0.00	0.00	32.844	1.90	0.00	100.00	V
Asta 35 (86-96)	1	109.80	0.00	0.00	4.604	2.50	0.00	100.00	V
Asta 35 (86-96)	2	146.40	0.00	0.00	4.604	2.50	0.00	100.00	V
Asta 35 (86-96)	3	109.80	0.00	0.00	4.604	2.50	0.00	100.00	V
Asta 36 (111-96)	1	105.90	0.00	0.00	10.052	2.50	0.00	100.00	V
Asta 36 (111-96)	2	141.20	0.00	0.00	10.052	2.50	0.00	100.00	V
Asta 36 (111-96)	3	105.90	0.00	0.00	10.052	2.50	0.00	100.00	V
Asta 38 (106-111)	1	171.00	0.00	0.00	2.787	2.50	0.00	100.00	V
Asta 38 (106-111)	2	228.00	0.00	0.00	2.787	2.50	0.00	100.00	V
Asta 38 (106-111)	3	171.00	0.00	0.00	2.787	2.50	0.00	100.00	V
Asta 40 (111-141)	1	90.00	0.00	0.00	3.482	2.50	0.00	100.00	V
Asta 40 (111-141)	2	120.00	0.00	0.00	3.482	2.50	0.00	100.00	V
Asta 40 (111-141)	3	90.00	0.00	0.00	3.482	2.50	0.00	100.00	V
Asta 42 (126-116)	1	184.50	0.00	0.00	5.57	2.50	0.00	100.00	V
Asta 42 (126-116)	2	246.00	0.00	0.00	5.57	2.50	0.00	100.00	V
Asta 42 (126-116)	3	184.50	0.00	0.00	5.57	2.50	0.00	100.00	V
Asta 43 (121-136)	1	85.50	0.00	0.00	3.692	2.50	0.00	100.00	V
Asta 43 (121-136)	2	114.00	0.00	0.00	3.692	2.50	0.00	100.00	V
Asta 43 (121-136)	3	85.50	0.00	0.00	3.692	2.50	0.00	100.00	V
Asta 44 (131-126)	1	189.00	0.00	0.00	2.538	2.50	0.00	100.00	V
Asta 44 (131-126)	2	252.00	0.00	0.00	2.538	2.50	0.00	100.00	V
Asta 44 (131-126)	3	189.00	0.00	0.00	2.538	2.50	0.00	100.00	V
Asta 45 (136-131)	1	90.00	0.00	0.00	2.918	2.50	0.00	100.00	V
Asta 45 (136-131)	2	120.00	0.00	0.00	2.918	2.50	0.00	100.00	V
Asta 45 (136-131)	3	90.00	0.00	0.00	2.918	2.50	0.00	100.00	V
Asta 46 (156-131)	1	138.45	0.00	0.00	2.578	2.50	0.00	100.00	V
Asta 46 (156-131)	2	184.60	0.00	0.00	2.578	2.50	0.00	100.00	V
Asta 46 (156-131)	3	138.45	0.00	0.00	2.578	2.50	0.00	100.00	V
Asta 47 (136-151)	1	137.70	0.00	0.00	5.767	2.50	0.00	100.00	V
Asta 47 (136-151)	2	183.60	0.00	0.00	5.767	2.50	0.00	100.00	V
Asta 47 (136-151)	3	137.70	0.00	0.00	5.767	2.50	0.00	100.00	V
Asta 49 (151-141)	1	100.50	0.00	0.00	13.859	2.50	0.00	100.00	V
Asta 49 (151-141)	2	134.00	0.00	0.00	13.859	2.50	0.00	100.00	V
Asta 49 (151-141)	3	100.50	0.00	0.00	13.859	2.50	0.00	100.00	V
Asta 51 (12-2)	1	40.00	0.00	0.00	3.728	2.50	0.00	100.00	V
Asta 51 (12-2)	2	364.00	0.00	0.00	3.728	2.50	0.00	100.00	V
Asta 51 (12-2)	3	40.00	0.00	0.00	3.728	2.50	0.00	100.00	V
Asta 52 (2-222)	1	60.00	0.00	0.00	4.835	2.50	0.00	100.00	V
Asta 52 (2-222)	2	465.00	0.00	0.00	4.835	2.50	0.00	100.00	V
Asta 52 (2-222)	3	60.00	0.00	0.00	4.835	2.50	0.00	100.00	V

Asta 53 (7-17)	1	40.00	0.00	0.00	5.682	2.50	0.00	100.00	V
Asta 53 (7-17)	2	364.00	0.00	0.00	5.682	2.50	0.00	100.00	V
Asta 53 (7-17)	3	40.00	0.00	0.00	5.682	2.50	0.00	100.00	V
Asta 54 (222-7)	1	60.00	0.00	0.00	7.111	2.50	0.00	100.00	V
Asta 54 (222-7)	2	465.00	0.00	0.00	7.111	2.50	0.00	100.00	V
Asta 54 (222-7)	3	60.00	0.00	0.00	7.111	2.50	0.00	100.00	V
Asta 55 (27-12)	1	40.00	0.00	0.00	2.928	2.50	0.00	100.00	V
Asta 55 (27-12)	2	364.00	0.00	0.00	2.928	2.50	0.00	100.00	V
Asta 55 (27-12)	3	40.00	0.00	0.00	2.928	2.50	0.00	100.00	V
Asta 56 (12-227)	1	60.00	0.00	0.00	5.456	2.50	0.00	100.00	V
Asta 56 (12-227)	2	465.00	0.00	0.00	5.456	2.50	0.00	100.00	V
Asta 56 (12-227)	3	60.00	0.00	0.00	5.456	2.50	0.00	100.00	V
Asta 57 (22-17)	1	80.00	0.00	0.00	11.399	2.50	0.00	100.00	V
Asta 57 (22-17)	2	410.00	0.00	0.00	11.399	2.50	0.00	100.00	V
Asta 57 (22-17)	3	80.00	0.00	0.00	11.399	2.50	0.00	100.00	V
Asta 58 (17-32)	1	40.00	0.00	0.00	2.632	2.50	0.00	100.00	V
Asta 58 (17-32)	2	364.00	0.00	0.00	2.632	2.50	0.00	100.00	V
Asta 58 (17-32)	3	40.00	0.00	0.00	2.632	2.50	0.00	100.00	V
Asta 59 (227-17)	1	60.00	0.00	0.00	8.335	2.50	0.00	100.00	V
Asta 59 (227-17)	2	465.00	0.00	0.00	8.335	2.50	0.00	100.00	V
Asta 59 (227-17)	3	60.00	0.00	0.00	8.335	2.50	0.00	100.00	V
Asta 60 (37-22)	1	80.00	0.00	0.00	5.224	2.50	0.00	100.00	V
Asta 60 (37-22)	2	284.00	0.00	0.00	5.224	2.50	0.00	100.00	V
Asta 60 (37-22)	3	80.00	0.00	0.00	5.224	2.50	0.00	100.00	V
Asta 61 (42-27)	1	40.00	0.00	0.00	2.459	2.50	0.00	100.00	V
Asta 61 (42-27)	2	364.00	0.00	0.00	2.459	2.50	0.00	100.00	V
Asta 61 (42-27)	3	40.00	0.00	0.00	2.459	2.50	0.00	100.00	V
Asta 62 (27-232)	1	60.00	0.00	0.00	5.427	2.50	0.00	100.00	V
Asta 62 (27-232)	2	465.00	0.00	0.00	5.427	2.50	0.00	100.00	V
Asta 62 (27-232)	3	60.00	0.00	0.00	5.427	2.50	0.00	100.00	V
Asta 63 (37-32)	1	60.00	0.00	0.00	10.585	2.50	0.00	100.00	V
Asta 63 (37-32)	2	450.00	0.00	0.00	10.585	2.50	0.00	100.00	V
Asta 63 (37-32)	3	60.00	0.00	0.00	10.585	2.50	0.00	100.00	V
Asta 64 (32-47)	1	40.00	0.00	0.00	2.341	2.50	0.00	100.00	V
Asta 64 (32-47)	2	364.00	0.00	0.00	2.341	2.50	0.00	100.00	V
Asta 64 (32-47)	3	40.00	0.00	0.00	2.341	2.50	0.00	100.00	V
Asta 65 (232-32)	1	60.00	0.00	0.00	7.73	2.50	0.00	100.00	V
Asta 65 (232-32)	2	465.00	0.00	0.00	7.73	2.50	0.00	100.00	V
Asta 65 (232-32)	3	60.00	0.00	0.00	7.73	2.50	0.00	100.00	V
Asta 66 (52-37)	1	80.00	0.00	0.00	3.837	2.50	0.00	100.00	V
Asta 66 (52-37)	2	284.00	0.00	0.00	3.837	2.50	0.00	100.00	V
Asta 66 (52-37)	3	80.00	0.00	0.00	3.837	2.50	0.00	100.00	V
Asta 67 (72-42)	1	40.00	0.00	0.00	2.849	2.50	0.00	100.00	V
Asta 67 (72-42)	2	364.00	0.00	0.00	2.849	2.50	0.00	100.00	V
Asta 67 (72-42)	3	40.00	0.00	0.00	2.849	2.50	0.00	100.00	V
Asta 68 (42-237)	1	60.00	0.00	0.00	5.491	2.50	0.00	100.00	V
Asta 68 (42-237)	2	465.00	0.00	0.00	5.491	2.50	0.00	100.00	V
Asta 68 (42-237)	3	60.00	0.00	0.00	5.491	2.50	0.00	100.00	V
Asta 69 (52-47)	1	60.00	0.00	0.00	8.596	2.50	0.00	100.00	V
Asta 69 (52-47)	2	450.00	0.00	0.00	8.596	2.50	0.00	100.00	V
Asta 69 (52-47)	3	60.00	0.00	0.00	8.596	2.50	0.00	100.00	V
Asta 70 (47-77)	1	40.00	0.00	0.00	2.747	2.50	0.00	100.00	V
Asta 70 (47-77)	2	364.00	0.00	0.00	2.747	2.50	0.00	100.00	V
Asta 70 (47-77)	3	40.00	0.00	0.00	2.747	2.50	0.00	100.00	V
Asta 71 (237-47)	1	60.00	0.00	0.00	7.68	2.50	0.00	100.00	V
Asta 71 (237-47)	2	465.00	0.00	0.00	7.68	2.50	0.00	100.00	V
Asta 71 (237-47)	3	60.00	0.00	0.00	7.68	2.50	0.00	100.00	V
Asta 72 (67-52)	1	80.00	0.00	0.00	3.226	2.50	0.00	100.00	V
Asta 72 (67-52)	2	58.00	0.00	0.00	3.226	2.50	0.00	100.00	V
Asta 72 (67-52)	3	80.00	0.00	0.00	3.226	2.50	0.00	100.00	V
Asta 73 (82-67)	1	80.00	0.00	0.00	3.226	2.50	0.00	100.00	V
Asta 73 (82-67)	2	66.00	0.00	0.00	3.226	2.50	0.00	100.00	V
Asta 73 (82-67)	3	80.00	0.00	0.00	3.226	2.50	0.00	100.00	V
Asta 74 (102-72)	1	40.00	0.00	0.00	2.76	2.50	0.00	100.00	V
Asta 74 (102-72)	2	364.00	0.00	0.00	2.76	2.50	0.00	100.00	V
Asta 74 (102-72)	3	40.00	0.00	0.00	2.76	2.50	0.00	100.00	V
Asta 75 (72-242)	1	60.00	0.00	0.00	5.505	2.50	0.00	100.00	V
Asta 75 (72-242)	2	465.00	0.00	0.00	5.505	2.50	0.00	100.00	V
Asta 75 (72-242)	3	60.00	0.00	0.00	5.505	2.50	0.00	100.00	V

Asta 76 (82-77)	1	60.00	0.00	0.00	11.677	2.50	0.00	100.00	V
Asta 76 (82-77)	2	450.00	0.00	0.00	11.677	2.50	0.00	100.00	V
Asta 76 (82-77)	3	60.00	0.00	0.00	11.677	2.50	0.00	100.00	V
Asta 77 (77-107)	1	40.00	0.00	0.00	3.448	2.50	0.00	100.00	V
Asta 77 (77-107)	2	364.00	0.00	0.00	3.448	2.50	0.00	100.00	V
Asta 77 (77-107)	3	40.00	0.00	0.00	3.448	2.50	0.00	100.00	V
Asta 78 (242-77)	1	60.00	0.00	0.00	8.194	2.50	0.00	100.00	V
Asta 78 (242-77)	2	465.00	0.00	0.00	8.194	2.50	0.00	100.00	V
Asta 78 (242-77)	3	60.00	0.00	0.00	8.194	2.50	0.00	100.00	V
Asta 79 (97-82)	-	76.00	0.00	0.00	8.105	1.60	0.00	100.00	V
Asta 80 (112-97)	1	80.00	0.00	0.00	8.105	2.50	0.00	100.00	V
Asta 80 (112-97)	2	208.00	0.00	0.00	8.105	2.50	0.00	100.00	V
Asta 80 (112-97)	3	80.00	0.00	0.00	8.105	2.50	0.00	100.00	V
Asta 81 (102-117)	1	60.00	0.00	0.00	27.172	2.50	0.00	100.00	V
Asta 81 (102-117)	2	181.00	0.00	0.00	27.172	2.50	0.00	100.00	V
Asta 81 (102-117)	3	60.00	0.00	0.00	27.172	2.50	0.00	100.00	V
Asta 82 (112-107)	1	60.00	0.00	0.00	18.838	2.50	0.00	100.00	V
Asta 82 (112-107)	2	450.00	0.00	0.00	18.838	2.50	0.00	100.00	V
Asta 82 (112-107)	3	60.00	0.00	0.00	18.838	2.50	0.00	100.00	V
Asta 83 (122-107)	1	60.00	0.00	0.00	20.23	2.50	0.00	100.00	V
Asta 83 (122-107)	2	89.00	0.00	0.00	20.23	2.50	0.00	100.00	V
Asta 83 (122-107)	3	60.00	0.00	0.00	20.23	2.50	0.00	100.00	V
Asta 84 (142-112)	1	80.00	0.00	0.00	13.109	2.50	0.00	100.00	V
Asta 84 (142-112)	2	140.00	0.00	0.00	13.109	2.50	0.00	100.00	V
Asta 84 (142-112)	3	80.00	0.00	0.00	13.109	2.50	0.00	100.00	V
Asta 85 (117-122)	1	60.00	0.00	0.00	5.643	2.50	0.00	100.00	V
Asta 85 (117-122)	2	510.00	0.00	0.00	5.643	2.50	0.00	100.00	V
Asta 85 (117-122)	3	60.00	0.00	0.00	5.643	2.50	0.00	100.00	V
Asta 86 (117-127)	1	80.00	0.00	0.00	19.16	2.50	0.00	100.00	V
Asta 86 (117-127)	2	470.00	0.00	0.00	19.16	2.50	0.00	100.00	V
Asta 86 (117-127)	3	80.00	0.00	0.00	19.16	2.50	0.00	100.00	V
Asta 87 (122-137)	1	60.00	0.00	0.00	11.425	2.50	0.00	100.00	V
Asta 87 (122-137)	2	180.00	0.00	0.00	11.425	2.50	0.00	100.00	V
Asta 87 (122-137)	3	60.00	0.00	0.00	11.425	2.50	0.00	100.00	V
Asta 88 (127-132)	1	80.00	0.00	0.00	5.572	2.50	0.00	100.00	V
Asta 88 (127-132)	2	470.00	0.00	0.00	5.572	2.50	0.00	100.00	V
Asta 88 (127-132)	3	80.00	0.00	0.00	5.572	2.50	0.00	100.00	V
Asta 89 (137-132)	1	60.00	0.00	0.00	14.977	2.50	0.00	100.00	V
Asta 89 (137-132)	2	180.00	0.00	0.00	14.977	2.50	0.00	100.00	V
Asta 89 (137-132)	3	60.00	0.00	0.00	14.977	2.50	0.00	100.00	V
Asta 90 (132-157)	1	80.00	0.00	0.00	11.289	2.50	0.00	100.00	V
Asta 90 (132-157)	2	301.50	0.00	0.00	11.289	2.50	0.00	100.00	V
Asta 90 (132-157)	3	80.00	0.00	0.00	11.289	2.50	0.00	100.00	V
Asta 91 (137-152)	1	60.00	0.00	0.00	14.596	2.50	0.00	100.00	V
Asta 91 (137-152)	2	339.00	0.00	0.00	14.596	2.50	0.00	100.00	V
Asta 91 (137-152)	3	60.00	0.00	0.00	14.596	2.50	0.00	100.00	V
Asta 92 (142-147)	1	80.00	0.00	0.00	8.186	2.50	0.00	100.00	V
Asta 92 (142-147)	2	140.00	0.00	0.00	8.186	2.50	0.00	100.00	V
Asta 92 (142-147)	3	80.00	0.00	0.00	8.186	2.50	0.00	100.00	V
Asta 93 (152-142)	1	60.00	0.00	0.00	26.133	2.50	0.00	100.00	V
Asta 93 (152-142)	2	230.00	0.00	0.00	26.133	2.50	0.00	100.00	V
Asta 93 (152-142)	3	60.00	0.00	0.00	26.133	2.50	0.00	100.00	V
Asta 94 (157-147)	1	80.00	0.00	0.00	28.406	2.50	0.00	100.00	V
Asta 94 (157-147)	2	192.50	0.00	0.00	28.406	2.50	0.00	100.00	V
Asta 94 (157-147)	3	80.00	0.00	0.00	28.406	2.50	0.00	100.00	V
Asta 130 (68-53)	1	35.00	0.00	0.00	11.248	2.50	0.00	100.00	V
Asta 130 (68-53)	2	138.00	0.00	0.00	11.248	2.50	0.00	100.00	V
Asta 130 (68-53)	3	35.00	0.00	0.00	11.248	2.50	0.00	100.00	V
Asta 131 (63-58)	1	20.00	0.00	0.00	0.746	2.50	0.00	100.00	V
Asta 131 (63-58)	2	344.00	0.00	0.00	0.704	2.50	0.00	100.00	V
Asta 131 (63-58)	3	20.00	0.00	0.00	0.568	2.50	0.00	100.00	V
Asta 132 (58-68)	1	20.00	0.00	0.00	2.786	2.50	0.00	100.00	V
Asta 132 (58-68)	2	346.00	0.00	0.00	2.746	2.50	0.00	100.00	V
Asta 132 (58-68)	3	20.00	0.00	0.00	2.27	2.50	0.00	100.00	V
Asta 133 (88-58)	1	20.00	0.00	0.00	0.40	2.50	0.00	100.00	V
Asta 133 (88-58)	2	267.00	0.00	0.00	0.40	2.50	0.00	100.00	V
Asta 133 (88-58)	3	20.00	0.00	0.00	0.40	2.50	0.00	100.00	V
Asta 134 (93-63)	1	20.00	0.00	0.00	0.344	2.50	0.00	100.00	V
Asta 134 (93-63)	2	267.00	0.00	0.00	0.344	2.50	0.00	100.00	V

Asta 134 (93-63)	3	20.00	0.00	0.00	0.344	2.50	0.00	100.00	V
Asta 135 (83-68)	1	35.00	0.00	0.00	8.899	2.50	0.00	100.00	V
Asta 135 (83-68)	2	146.00	0.00	0.00	8.899	2.50	0.00	100.00	V
Asta 135 (83-68)	3	35.00	0.00	0.00	8.899	2.50	0.00	100.00	V
Asta 136 (98-83)	-	66.00	0.00	0.00	15.386	1.15	0.00	100.00	V
Asta 137 (88-93)	1	20.00	0.00	0.00	0.796	2.50	0.00	100.00	V
Asta 137 (88-93)	2	344.00	0.00	0.00	0.754	2.50	0.00	100.00	V
Asta 137 (88-93)	3	20.00	0.00	0.00	0.462	2.50	0.00	100.00	V
Asta 138 (98-88)	1	20.00	0.00	0.00	1.677	2.50	0.00	100.00	V
Asta 138 (98-88)	2	346.00	0.00	0.00	1.764	2.50	0.00	100.00	V
Asta 138 (98-88)	3	20.00	0.00	0.00	1.779	2.50	0.00	100.00	V
Asta 139 (113-98)	1	35.00	0.00	0.00	4.419	2.50	0.00	100.00	V
Asta 139 (113-98)	2	288.00	0.00	0.00	4.419	2.50	0.00	100.00	V
Asta 139 (113-98)	3	35.00	0.00	0.00	4.419	2.50	0.00	100.00	V
Asta 140 (143-113)	1	35.00	0.00	0.00	5.055	2.50	0.00	100.00	V
Asta 140 (143-113)	2	235.00	0.00	0.00	5.055	2.50	0.00	100.00	V
Asta 140 (143-113)	3	35.00	0.00	0.00	5.055	2.50	0.00	100.00	V
Asta 231 (15-5)	1	133.20	0.00	0.00	2.731	2.50	0.00	100.00	V
Asta 231 (15-5)	2	177.60	0.00	0.00	2.731	2.50	0.00	100.00	V
Asta 231 (15-5)	3	133.20	0.00	0.00	2.731	2.50	0.00	100.00	V
Asta 233 (20-10)	1	133.20	0.00	0.00	1.712	2.50	0.00	100.00	V
Asta 233 (20-10)	2	177.60	0.00	0.00	1.712	2.50	0.00	100.00	V
Asta 233 (20-10)	3	133.20	0.00	0.00	1.712	2.50	0.00	100.00	V
Asta 236 (30-15)	1	30.00	0.00	0.00	0.752	2.50	0.00	100.00	V
Asta 236 (30-15)	2	384.00	0.00	0.00	0.752	2.50	0.00	100.00	V
Asta 236 (30-15)	3	30.00	0.00	0.00	0.752	2.50	0.00	100.00	V
Asta 238 (35-20)	1	30.00	0.00	0.00	0.622	2.50	0.00	100.00	V
Asta 238 (35-20)	2	384.00	0.00	0.00	0.622	2.50	0.00	100.00	V
Asta 238 (35-20)	3	30.00	0.00	0.00	0.622	2.50	0.00	100.00	V
Asta 241 (45-30)	1	30.00	0.00	0.00	0.459	2.50	0.00	100.00	V
Asta 241 (45-30)	2	384.00	0.00	0.00	0.459	2.50	0.00	100.00	V
Asta 241 (45-30)	3	30.00	0.00	0.00	0.459	2.50	0.00	100.00	V
Asta 243 (50-35)	1	30.00	0.00	0.00	0.491	2.50	0.00	100.00	V
Asta 243 (50-35)	2	384.00	0.00	0.00	0.491	2.50	0.00	100.00	V
Asta 243 (50-35)	3	30.00	0.00	0.00	0.491	2.50	0.00	100.00	V
Asta 246 (75-45)	1	30.00	0.00	0.00	0.52	2.50	0.00	100.00	V
Asta 246 (75-45)	2	384.00	0.00	0.00	0.52	2.50	0.00	100.00	V
Asta 246 (75-45)	3	30.00	0.00	0.00	0.52	2.50	0.00	100.00	V
Asta 248 (80-50)	1	30.00	0.00	0.00	0.437	2.50	0.00	100.00	V
Asta 248 (80-50)	2	384.00	0.00	0.00	0.437	2.50	0.00	100.00	V
Asta 248 (80-50)	3	30.00	0.00	0.00	0.437	2.50	0.00	100.00	V
Asta 251 (105-75)	1	30.00	0.00	0.00	2.147	2.50	0.00	100.00	V
Asta 251 (105-75)	2	384.00	0.00	0.00	2.147	2.50	0.00	100.00	V
Asta 251 (105-75)	3	30.00	0.00	0.00	2.147	2.50	0.00	100.00	V
Asta 253 (110-80)	1	30.00	0.00	0.00	1.733	2.50	0.00	100.00	V
Asta 253 (110-80)	2	384.00	0.00	0.00	1.733	2.50	0.00	100.00	V
Asta 253 (110-80)	3	30.00	0.00	0.00	1.733	2.50	0.00	100.00	V

1.2.3.9 Deformabilità SLE

Trave	: Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste")
N. Sez.	: Numero della sezione di verifica;
SL	: Stato limite della combinazione più gravosa;
CdC	: Combinazione di carico più gravosa;
F Max Pos	: Valore massimo del rapporto freccia/lunghezza (positivo);
F Max Neg	: Valore massimo del rapporto freccia/lunghezza (negativo);
F Lim	: Valore limite del rapporto freccia/lunghezza;
S	: Valore del coefficiente di sicurezza minimo della sezione;
Esito	: V = Verificato; NV = Non Verificato;

Trave	N. Sez.	SL	CdC	F max Pos	F max Neg	F Lim	S	Esito
Asta 7 (16-21)	0	SLE Car.	CC1	0.00	-0.00011	0.004	37.04	V
Asta 10 (21-36)	0	SLE Car.	CC1	0.00	-0.0002	0.004	20.49	V
Asta 13 (31-36)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V

Asta 16 (36-51)	0	SLE Car.	CC1	0.00	-0.00016	0.004	25.34	V
Asta 19 (46-51)	0	SLE Car.	CC1	0.00	-0.00016	0.004	24.69	V
Asta 22 (66-51)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 24 (56-66)	0	SLE Car.	CC1	0.00	-0.00049	0.004	8.10	V
Asta 27 (81-66)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 30 (76-81)	0	SLE Car.	CC1	0.00	-0.00056	0.004	7.09	V
Asta 33 (96-81)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 35 (86-96)	0	SLE Car.	CC1	0.00	-0.00052	0.004	7.63	V
Asta 36 (111-96)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 38 (106-111)	0	SLE Frequenti	CC2	0.00	-0.00012	0.004	32.02	V
Asta 40 (111-141)	0	SLE Car.	CC1	0.00	-0.00034	0.004	11.80	V
Asta 42 (126-116)	0	SLE Frequenti	CC2	0.00	-0.00013	0.004	29.56	V
Asta 43 (121-136)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 44 (131-126)	0	SLE Car.	CC1	0.00	-0.0002	0.004	19.85	V
Asta 45 (136-131)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 46 (156-131)	0	SLE Car.	CC1	0.00	-0.00037	0.004	10.86	V
Asta 47 (136-151)	0	SLE Car.	CC1	0.00	-0.00011	0.004	35.28	V
Asta 49 (151-141)	0	SLE Car.	CC1	0.0002	0.00	0.004	19.92	V
Asta 51 (12-2)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 52 (2-222)	0	SLE Car.	CC1	0.00	-0.00032	0.004	12.34	V
Asta 53 (7-17)	0	SLE Car.	CC1	0.00	-0.00019	0.004	20.53	V
Asta 54 (222-7)	0	SLE Car.	CC1	0.00	-0.00025	0.004	16.06	V
Asta 55 (27-12)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 56 (12-227)	0	SLE Car.	CC1	0.00	-0.001	0.004	4.02	V
Asta 57 (22-17)	0	SLE Car.	CC1	0.00	-0.00023	0.004	17.03	V
Asta 58 (17-32)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 59 (227-17)	0	SLE Car.	CC1	0.00	-0.00059	0.004	6.78	V
Asta 60 (37-22)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 61 (42-27)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 62 (27-232)	0	SLE Car.	CC1	0.00	-0.00102	0.004	3.93	V
Asta 63 (37-32)	0	SLE Car.	CC1	0.00	-0.00099	0.004	4.02	V
Asta 64 (32-47)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 65 (232-32)	0	SLE Car.	CC1	0.00	-0.00049	0.004	8.21	V
Asta 66 (52-37)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 67 (72-42)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 68 (42-237)	0	SLE Car.	CC1	0.00	-0.00101	0.004	3.95	V
Asta 69 (52-47)	0	SLE Car.	CC1	0.00	-0.0011	0.004	3.64	V
Asta 70 (47-77)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 71 (237-47)	0	SLE Car.	CC1	0.00	-0.00047	0.004	8.46	V
Asta 72 (67-52)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 73 (82-67)	0	SLE Car.	CC1	0.00	-0.00016	0.004	25.35	V
Asta 74 (102-72)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 75 (72-242)	0	SLE Car.	CC1	0.00	-0.00096	0.004	4.16	V
Asta 76 (82-77)	0	SLE Car.	CC1	0.00	-0.00108	0.004	3.69	V
Asta 77 (77-107)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 78 (242-77)	0	SLE Car.	CC1	0.00	-0.00065	0.004	6.13	V
Asta 79 (97-82)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 80 (112-97)	0	SLE Car.	CC1	0.00	-0.00034	0.004	11.92	V
Asta 81 (102-117)	0	SLE Car.	CC1	0.00023	0.00	0.004	17.28	V
Asta 82 (112-107)	0	SLE Car.	CC1	0.00	-0.00092	0.004	4.38	V
Asta 83 (122-107)	0	SLE Car.	CC1	0.00038	0.00	0.004	10.49	V
Asta 84 (142-112)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 85 (117-122)	0	SLE Car.	CC1	0.00	-0.0016	0.004	2.50	V
Asta 86 (117-127)	0	SLE Car.	CC1	0.00	-0.00093	0.004	4.29	V
Asta 87 (122-137)	0	SLE Car.	CC1	0.00	-0.00022	0.004	17.81	V
Asta 88 (127-132)	0	SLE Car.	CC1	0.00	-0.00047	0.004	8.54	V
Asta 89 (137-132)	0	SLE Car.	CC1	0.00	-0.00024	0.004	16.83	V
Asta 90 (132-157)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 91 (137-152)	0	SLE Car.	CC1	0.00	-0.00031	0.004	13.00	V
Asta 92 (142-147)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 93 (152-142)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 94 (157-147)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 130 (68-53)	0	SLE Car.	CC1	0.00011	0.00	0.004	36.23	V
Asta 131 (63-58)	0	SLE Car.	CC1	0.00	-0.00177	0.004	2.25	V
Asta 132 (58-68)	0	SLE Car.	CC1	0.00	-0.00282	0.004	1.42	V
Asta 133 (88-58)	0	SLE Car.	CC1	0.00	-0.00012	0.004	33.47	V
Asta 134 (93-63)	0	SLE Car.	CC1	0.00	-0.00011	0.004	37.93	V
Asta 135 (83-68)	0	SLE Car.	CC1	0.00	-0.0003	0.004	13.48	V
Asta 136 (98-83)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V

Asta 137 (88-93)	0	SLE Car.	CC1	0.00	-0.00184	0.004	2.17	V
Asta 138 (98-88)	0	SLE Car.	CC1	0.00	-0.00251	0.004	1.59	V
Asta 139 (113-98)	0	SLE Car.	CC1	0.00	-0.00087	0.004	4.60	V
Asta 140 (143-113)	0	SLE Car.	CC1	0.00014	0.00	0.004	29.44	V
Asta 231 (15-5)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 233 (20-10)	0	SLE Car.	CC1	0.00011	0.00	0.004	36.42	V
Asta 236 (30-15)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 238 (35-20)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 241 (45-30)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 243 (50-35)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 246 (75-45)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 248 (80-50)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 251 (105-75)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V
Asta 253 (110-80)	0	SLE Car.	CC1	0.0001	0.00	0.004	40.00	V

1.2.3.10 Stato Tensionale SLE

Trave	: Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");
N. Sez.	: Posizione misurata lungo l'asse dell'elemento;
SL	: Stato limite della combinazione più gravosa;
CdC	: Combinazione di carico più gravosa;
Azioni Sollecitanti	
Nsd	: Sforzo normale sollecitante;
Ms3	: Valore del momento sollecitante attorno all'asse 3 locale;
Ms2	: Valore del momento sollecitante attorno all'asse 2 locale;
Tensioni massime	
σ MaxCls	: Tensione massima di compressione sul calcestruzzo;
σ MaxAcc	: Tensione massima di trazione sulle barre da armatura;
Tensioni limite	
σ LimCls	: Tensione limite di compressione del calcestruzzo;
σ LimAcc	: Tensione limite di trazione delle barre da armatura;
S	: Valore del coefficiente di sicurezza minimo della sezione;
Esito	: V = Verificato; NV = Non Verificato;

Trave	N. Sez.	SL	CdC	Azioni Sollecitanti			Tensioni massime		Tensioni limite		S	Esito
				Nsd [kN]	Ms3 [kNm]	Ms2 [kNm]	σ MaxCls [N/mm ²]	σ MaxAcc [N/mm ²]	σ LimCls [N/mm ²]	σ LimAcc [N/mm ²]		
Asta 7 (16-21)	11	SLE Car.	CC1	0.00	-13.02	0.00	3.288	-92.831	15.00	360.00	3.88	V
Asta 10 (21-36)	1	SLE Frequenti	CC1	0.00	-21.38	0.00	5.013	-123.123	11.25	360.00	2.24	V
Asta 13 (31-36)	11	SLE Car.	CC1	0.00	-11.99	0.00	3.177	-85.553	15.00	360.00	4.21	V
Asta 16 (36-51)	1	SLE Car.	CC1	0.00	-15.66	0.00	3.785	-111.671	15.00	360.00	3.22	V
Asta 19 (46-51)	1	SLE Frequenti	CC1	0.00	-12.78	0.00	3.386	-91.184	11.25	360.00	3.32	V
Asta 22 (66-51)	1	SLE Car.	CC1	0.00	-3.94	0.00	1.346	-54.664	15.00	360.00	6.59	V
Asta 24 (56-66)	1	SLE Frequenti	CC1	0.00	-45.77	0.00	10.136	-221.485	11.25	360.00	1.11	V
Asta 27 (81-66)	7	SLE Car.	CC1	0.00	-4.45	0.00	1.408	-61.982	15.00	360.00	5.81	V
Asta 30 (76-81)	7	SLE Car.	CC1	0.00	9.53	0.00	3.017	-132.821	15.00	360.00	2.71	V
Asta 33 (96-81)	3	SLE Frequenti	CC1	0.00	10.52	0.00	2.787	-75.063	11.25	360.00	4.04	V
Asta 35 (86-96)	1	SLE Frequenti	CC1	0.00	-44.18	0.00	9.339	-213.396	11.25	360.00	1.20	V
Asta 36 (111-96)	1	SLE Frequenti	CC1	0.00	-12.29	0.00	3.258	-87.738	11.25	360.00	3.45	V
Asta 38 (106-111)	11	SLE Frequenti	CC1	0.00	-10.58	0.00	2.804	-75.526	11.25	360.00	4.01	V
Asta 40 (111-141)	1	SLE Frequenti	CC1	0.00	15.59	0.00	4.131	-111.26	11.25	360.00	2.72	V
Asta 42 (126-116)	11	SLE Frequenti	CC1	0.00	-11.11	0.00	2.807	-79.253	11.25	360.00	4.01	V
Asta 43 (121-136)	6	SLE Car.	CC1	0.00	5.17	0.00	1.636	-72.031	15.00	360.00	5.00	V
Asta 44 (131-126)	6	SLE Car.	CC1	0.00	7.57	0.00	2.586	-105.029	15.00	360.00	3.43	V
Asta 45 (136-131)	2	SLE Car.	CC1	0.00	7.93	0.00	2.508	-110.413	15.00	360.00	3.26	V
Asta 46 (156-131)	6	SLE Car.	CC1	0.00	8.58	0.00	2.932	-119.055	15.00	360.00	3.02	V
Asta 47 (136-151)	4	SLE Car.	CC1	0.00	5.49	0.00	1.878	-76.278	15.00	360.00	4.72	V
Asta 49 (151-141)	7	SLE Frequenti	CC1	0.00	-18.12	0.00	4.802	-129.314	11.25	360.00	2.34	V
Asta 51 (12-2)	9	SLE Frequenti	CC1	0.00	-27.68	0.00	3.266	-81.266	11.25	360.00	3.45	V
Asta 52 (2-222)	1	SLE Car.	CC1	0.00	-92.70	0.00	4.555	-131.241	15.00	360.00	2.74	V
Asta 53 (7-17)	1	SLE Frequenti	CC1	0.00	-46.54	0.00	5.49	-136.631	11.25	360.00	2.05	V
Asta 54 (222-7)	11	SLE Car.	CC1	0.00	-106.93	0.00	5.254	-151.385	15.00	360.00	2.38	V
Asta 55 (27-12)	5	SLE Car.	CC1	0.00	9.92	0.00	1.628	-65.881	15.00	360.00	5.46	V

Asta 56 (12-227)	1	SLE Car.	CC1	0.00	-175.28	0.00	8.998	-249.312	15.00	360.00	1.44	V
Asta 57 (22-17)	4	SLE Car.	CC1	0.00	81.79	0.00	2.78	-116.292	15.00	360.00	3.10	V
Asta 58 (17-32)	1	SLE Car.	CC1	0.00	-22.42	0.00	3.077	-91.109	15.00	360.00	3.95	V
Asta 59 (227-17)	11	SLE Car.	CC1	0.00	-202.12	0.00	9.714	-265.305	15.00	360.00	1.36	V
Asta 60 (37-22)	9	SLE Car.	CC1	0.00	-60.17	0.00	2.344	-111.003	15.00	360.00	3.24	V
Asta 61 (42-27)	1	SLE Frequenti	CC1	0.00	-15.81	0.00	2.075	-64.062	11.25	360.00	5.42	V
Asta 62 (27-232)	1	SLE Car.	CC1	0.00	-161.12	0.00	8.673	-265.591	15.00	360.00	1.36	V
Asta 63 (37-32)	11	SLE Car.	CC1	0.00	-142.86	0.00	7.721	-261.122	15.00	360.00	1.38	V
Asta 64 (32-47)	1	SLE Frequenti	CC2	0.00	-15.67	0.00	2.15	-63.667	11.25	360.00	5.23	V
Asta 65 (232-32)	11	SLE Car.	CC1	0.00	-205.03	0.00	9.854	-269.125	15.00	360.00	1.34	V
Asta 66 (52-37)	3	SLE Car.	CC1	0.00	55.77	0.00	2.173	-102.895	15.00	360.00	3.50	V
Asta 67 (72-42)	1	SLE Frequenti	CC1	0.00	-15.16	0.00	1.991	-61.455	11.25	360.00	5.65	V
Asta 68 (42-237)	1	SLE Car.	CC1	0.00	-160.45	0.00	8.637	-264.482	15.00	360.00	1.36	V
Asta 69 (52-47)	11	SLE Car.	CC1	0.00	-159.81	0.00	8.603	-263.433	15.00	360.00	1.37	V
Asta 70 (47-77)	5	SLE Car.	CC1	0.00	10.17	0.00	1.67	-67.557	15.00	360.00	5.33	V
Asta 71 (237-47)	11	SLE Car.	CC1	0.00	-204.90	0.00	9.848	-268.956	15.00	360.00	1.34	V
Asta 72 (67-52)	1	SLE Car.	CC1	0.00	64.44	0.00	2.511	-118.885	15.00	360.00	3.03	V
Asta 73 (82-67)	2	SLE Car.	CC1	0.00	72.32	0.00	2.818	-133.415	15.00	360.00	2.70	V
Asta 74 (102-72)	1	SLE Frequenti	CC1	0.00	-23.78	0.00	2.942	-80.892	11.25	360.00	3.82	V
Asta 75 (72-242)	1	SLE Car.	CC1	0.00	-171.22	0.00	9.217	-282.241	15.00	360.00	1.28	V
Asta 76 (82-77)	11	SLE Car.	CC1	0.00	-159.09	0.00	8.564	-262.244	15.00	360.00	1.37	V
Asta 77 (77-107)	9	SLE Car.	CC1	0.00	-28.88	0.00	3.963	-117.349	15.00	360.00	3.07	V
Asta 78 (242-77)	11	SLE Car.	CC1	0.00	-197.15	0.00	10.121	-280.41	15.00	360.00	1.28	V
Asta 79 (97-82)	1	SLE Car.	CC1	0.00	86.77	0.00	3.381	-160.08	15.00	360.00	2.25	V
Asta 80 (112-97)	6	SLE Car.	CC1	0.00	89.05	0.00	3.47	-164.287	15.00	360.00	2.19	V
Asta 81 (102-117)	1	SLE Car.	CC1	0.00	-201.95	0.00	9.706	-265.082	15.00	360.00	1.36	V
Asta 82 (112-107)	6	SLE Car.	CC1	0.00	97.31	0.00	5.727	-206.953	15.00	360.00	1.74	V
Asta 83 (122-107)	5	SLE Car.	CC1	0.00	-155.12	0.00	8.35	-255.695	15.00	360.00	1.41	V
Asta 84 (142-112)	7	SLE Car.	CC1	0.00	113.04	0.00	4.404	-208.55	15.00	360.00	1.73	V
Asta 85 (117-122)	5	SLE Car.	CC1	0.00	128.42	0.00	7.843	-274.011	15.00	360.00	1.31	V
Asta 86 (117-127)	6	SLE Car.	CC1	0.00	169.89	0.00	5.898	-226.555	15.00	360.00	1.59	V
Asta 87 (122-137)	5	SLE Car.	CC1	0.00	44.73	0.00	3.143	-141.092	15.00	360.00	2.55	V
Asta 88 (127-132)	8	SLE Car.	CC1	0.00	85.98	0.00	3.35	-158.624	15.00	360.00	2.27	V
Asta 89 (137-132)	3	SLE Car.	CC1	0.00	47.09	0.00	3.309	-148.546	15.00	360.00	2.42	V
Asta 90 (132-157)	9	SLE Car.	CC1	0.00	-96.72	0.00	3.768	-178.427	15.00	360.00	2.02	V
Asta 91 (137-152)	5	SLE Car.	CC1	0.00	43.96	0.00	3.089	-138.663	15.00	360.00	2.60	V
Asta 92 (142-147)	5	SLE Car.	CC1	0.00	-38.46	0.00	1.498	-70.947	15.00	360.00	5.07	V
Asta 93 (152-142)	7	SLE Car.	CC1	0.00	-44.60	0.00	3.134	-140.694	15.00	360.00	2.56	V
Asta 94 (157-147)	1	SLE Car.	CC1	0.00	-70.53	0.00	2.748	-130.123	15.00	360.00	2.77	V
Asta 130 (68-53)	1	SLE Car.	CC1	0.00	18.43	0.00	4.697	-213.941	15.00	360.00	1.68	V
Asta 131 (63-58)	9	SLE Frequenti	CC1	0.00	-18.59	0.00	11.117	-184.495	11.25	360.00	1.01	V
Asta 132 (58-68)	1	SLE Frequenti	CC1	0.00	-35.26	0.00	10.001	-294.335	11.25	360.00	1.12	V
Asta 133 (88-58)	7	SLE Frequenti	CC1	0.00	-1.93	0.00	1.66	-45.478	11.25	360.00	6.78	V
Asta 134 (93-63)	4	SLE Frequenti	CC1	0.00	1.62	0.00	1.394	-38.19	11.25	360.00	8.07	V
Asta 135 (83-68)	7	SLE Car.	CC1	0.00	18.86	0.00	4.805	-218.891	15.00	360.00	1.64	V
Asta 136 (98-83)	3	SLE Frequenti	CC2	0.00	-17.83	0.00	3.91	-106.207	11.25	360.00	2.88	V
Asta 137 (88-93)	1	SLE Frequenti	CC1	0.00	-18.23	0.00	10.898	-180.873	11.25	360.00	1.03	V
Asta 138 (98-88)	9	SLE Frequenti	CC1	0.00	-33.43	0.00	10.961	-279.022	11.25	360.00	1.02	V
Asta 139 (113-98)	7	SLE Car.	CC1	0.00	18.09	0.00	4.61	-209.977	15.00	360.00	1.71	V
Asta 140 (143-113)	1	SLE Frequenti	CC1	0.00	-30.45	0.00	5.558	-122.724	11.25	360.00	2.02	V
Asta 231 (15-5)	9	SLE Frequenti	CC1	0.00	-9.49	0.00	2.398	-67.694	11.25	360.00	4.69	V
Asta 233 (20-10)	9	SLE Frequenti	CC1	0.00	-16.63	0.00	3.726	-95.672	11.25	360.00	3.02	V
Asta 236 (30-15)	5	SLE Car.	CC1	0.00	2.59	0.00	0.885	-35.926	15.00	360.00	10.02	V
Asta 238 (35-20)	9	SLE Car.	CC1	0.00	-5.70	0.00	1.378	-40.644	15.00	360.00	8.86	V
Asta 241 (45-30)	1	SLE Frequenti	CC1	0.00	-4.58	0.00	1.156	-32.645	11.25	360.00	9.73	V
Asta 243 (50-35)	1	SLE Frequenti	CC1	0.00	-4.35	0.00	1.099	-31.04	11.25	360.00	10.23	V
Asta 246 (75-45)	1	SLE Frequenti	CC1	0.00	-4.24	0.00	1.072	-30.263	11.25	360.00	10.50	V
Asta 248 (80-50)	1	SLE Frequenti	CC1	0.00	-5.24	0.00	1.323	-37.356	11.25	360.00	8.50	V
Asta 251 (105-75)	1	SLE Frequenti	CC1	0.00	-7.95	0.00	2.008	-56.697	11.25	360.00	5.60	V
Asta 253 (110-80)	1	SLE Frequenti	CC1	0.00	-12.87	0.00	3.019	-74.149	11.25	360.00	3.73	V

1.2.3.11 Fessurazione SLE

Trave : Trave di elevazione di input (vedi "Asta I." in "Caratteristiche delle Aste");
N. Sez. : Posizione misurata lungo l'asse dell'elemento;
SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

Nsd : Sforzo normale sollecitante;

Msd3 : Valore del momento sollecitante attorno all'asse 3 locale;

Msd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Fessurazione

Wk Max : Massima apertura delle fessure;

Wk Lim : Valore limite dell'apertura delle fessure;

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

Trave	N. Sez.	SL	CdC	Azioni Sollecitanti			Fessurazione		S	Esito
				Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	Wk max [cm]	Wk Lim [cm]		
Asta 7 (16-21)	1	SLE Frequenti	CC1	0.00	-5.87	0.00	0.00	0.04	100.00	V
Asta 10 (21-36)	1	SLE Quasi Permanenti	CC1	0.00	-20.13	0.00	0.00733	0.03	4.10	V
Asta 13 (31-36)	1	SLE Frequenti	CC1	0.00	-8.07	0.00	0.00	0.04	100.00	V
Asta 16 (36-51)	1	SLE Frequenti	CC1	0.00	-14.13	0.00	0.00703	0.04	5.69	V
Asta 19 (46-51)	1	SLE Frequenti	CC1	0.00	-12.78	0.00	0.00	0.04	100.00	V
Asta 22 (66-51)	1	SLE Frequenti	CC1	0.00	-3.17	0.00	0.00	0.04	100.00	V
Asta 24 (56-66)	8	SLE Quasi Permanenti	CC1	0.00	22.37	0.00	0.01809	0.03	1.66	V
Asta 27 (81-66)	1	SLE Frequenti	CC1	0.00	6.61	0.00	0.00	0.04	100.00	V
Asta 30 (76-81)	1	SLE Quasi Permanenti	CC1	0.00	-14.87	0.00	0.00738	0.03	4.06	V
Asta 33 (96-81)	1	SLE Frequenti	CC1	0.00	3.73	0.00	0.00	0.04	100.00	V
Asta 35 (86-96)	9	SLE Quasi Permanenti	CC1	0.00	29.48	0.00	0.01764	0.03	1.70	V
Asta 36 (111-96)	1	SLE Frequenti	CC1	0.00	-12.29	0.00	0.00	0.04	100.00	V
Asta 38 (106-111)	1	SLE Frequenti	CC1	0.00	-5.61	0.00	0.00	0.04	100.00	V
Asta 40 (111-141)	1	SLE Quasi Permanenti	CC1	0.00	14.65	0.00	0.00727	0.03	4.13	V
Asta 42 (126-116)	1	SLE Frequenti	CC1	0.00	-9.13	0.00	0.00	0.04	100.00	V
Asta 43 (121-136)	1	SLE Frequenti	CC1	0.00	-5.59	0.00	0.00	0.04	100.00	V
Asta 44 (131-126)	1	SLE Frequenti	CC1	0.00	-8.96	0.00	0.00	0.04	100.00	V
Asta 45 (136-131)	1	SLE Frequenti	CC1	0.00	7.46	0.00	0.00	0.04	100.00	V
Asta 46 (156-131)	1	SLE Frequenti	CC1	0.00	-6.09	0.00	0.00	0.04	100.00	V
Asta 47 (136-151)	1	SLE Frequenti	CC1	0.00	-1.25	0.00	0.00	0.04	100.00	V
Asta 49 (151-141)	7	SLE Quasi Permanenti	CC1	0.00	-17.05	0.00	0.00846	0.03	3.54	V
Asta 51 (12-2)	9	SLE Frequenti	CC1	0.00	-27.68	0.00	0.00457	0.04	8.75	V
Asta 52 (2-222)	1	SLE Frequenti	CC1	0.00	-67.75	0.00	0.00613	0.04	6.52	V
Asta 53 (7-17)	1	SLE Quasi Permanenti	CC1	0.00	-44.08	0.00	0.00872	0.03	3.44	V
Asta 54 (222-7)	11	SLE Quasi Permanenti	CC1	0.00	-67.86	0.00	0.00615	0.03	4.88	V
Asta 55 (27-12)	1	SLE Frequenti	CC1	0.00	-14.93	0.00	0.00	0.04	100.00	V
Asta 56 (12-227)	6	SLE Quasi Permanenti	CC1	0.00	65.70	0.00	0.01284	0.03	2.34	V
Asta 57 (22-17)	1	SLE Frequenti	CC1	0.00	-25.47	0.00	0.00	0.04	100.00	V
Asta 58 (17-32)	1	SLE Frequenti	CC1	0.00	-20.66	0.00	0.00	0.04	100.00	V
Asta 59 (227-17)	11	SLE Quasi Permanenti	CC1	0.00	-126.41	0.00	0.0132	0.03	2.27	V
Asta 60 (37-22)	1	SLE Frequenti	CC1	0.00	34.64	0.00	0.00	0.04	100.00	V
Asta 61 (42-27)	1	SLE Frequenti	CC1	0.00	-15.81	0.00	0.00	0.04	100.00	V
Asta 62 (27-232)	11	SLE Quasi Permanenti	CC1	0.00	-67.56	0.00	0.01338	0.03	2.24	V
Asta 63 (37-32)	11	SLE Quasi Permanenti	CC1	0.00	-94.38	0.00	0.0129	0.03	2.33	V
Asta 64 (32-47)	1	SLE Frequenti	CC1	0.00	-15.59	0.00	0.00	0.04	100.00	V
Asta 65 (232-32)	11	SLE Quasi Permanenti	CC1	0.00	-128.35	0.00	0.01344	0.03	2.23	V
Asta 66 (52-37)	1	SLE Frequenti	CC1	0.00	38.20	0.00	0.00	0.04	100.00	V
Asta 67 (72-42)	1	SLE Frequenti	CC1	0.00	-15.16	0.00	0.00	0.04	100.00	V
Asta 68 (42-237)	11	SLE Quasi Permanenti	CC1	0.00	-68.32	0.00	0.01359	0.03	2.21	V
Asta 69 (52-47)	5	SLE Quasi Permanenti	CC1	0.00	73.32	0.00	0.01497	0.03	2.00	V
Asta 70 (47-77)	1	SLE Frequenti	CC1	0.00	-14.11	0.00	0.00	0.04	100.00	V
Asta 71 (237-47)	11	SLE Quasi Permanenti	CC1	0.00	-128.38	0.00	0.01345	0.03	2.23	V
Asta 72 (67-52)	1	SLE Frequenti	CC1	0.00	57.76	0.00	0.00	0.04	100.00	V
Asta 73 (82-67)	1	SLE Frequenti	CC1	0.00	60.07	0.00	0.00	0.04	100.00	V
Asta 74 (102-72)	1	SLE Frequenti	CC1	0.00	-23.78	0.00	0.00	0.04	100.00	V
Asta 75 (72-242)	1	SLE Quasi Permanenti	CC1	0.00	-107.15	0.00	0.01391	0.03	2.16	V
Asta 76 (82-77)	5	SLE Quasi Permanenti	CC1	0.00	72.49	0.00	0.01474	0.03	2.04	V
Asta 77 (77-107)	9	SLE Frequenti	CC1	0.00	-25.70	0.00	0.00664	0.04	6.03	V
Asta 78 (242-77)	11	SLE Quasi Permanenti	CC1	0.00	-121.88	0.00	0.01328	0.03	2.26	V
Asta 79 (97-82)	1	SLE Frequenti	CC1	0.00	77.46	0.00	0.00	0.04	100.00	V
Asta 80 (112-97)	1	SLE Frequenti	CC1	0.00	40.43	0.00	0.00	0.04	100.00	V
Asta 81 (102-117)	1	SLE Quasi Permanenti	CC1	0.00	-158.27	0.00	0.01722	0.03	1.74	V

Asta 82 (112-107)	6	SLE Quasi Permanenti	CC1	0.00	66.09	0.00	0.00992	0.03	3.02	V
Asta 83 (122-107)	5	SLE Quasi Permanenti	CC1	0.00	-115.43	0.00	0.01523	0.03	1.97	V
Asta 84 (142-112)	7	SLE Frequenti	CC1	0.00	98.74	0.00	0.01442	0.04	2.77	V
Asta 85 (117-122)	5	SLE Quasi Permanenti	CC1	0.00	99.20	0.00	0.01695	0.03	1.77	V
Asta 86 (117-127)	6	SLE Quasi Permanenti	CC1	0.00	122.82	0.00	0.01207	0.03	2.49	V
Asta 87 (122-137)	1	SLE Frequenti	CC1	0.00	-14.20	0.00	0.00	0.04	100.00	V
Asta 88 (127-132)	1	SLE Frequenti	CC1	0.00	-9.92	0.00	0.00	0.04	100.00	V
Asta 89 (137-132)	1	SLE Frequenti	CC1	0.00	18.63	0.00	0.00	0.04	100.00	V
Asta 90 (132-157)	1	SLE Frequenti	CC1	0.00	80.18	0.00	0.00	0.04	100.00	V
Asta 91 (137-152)	1	SLE Frequenti	CC1	0.00	-15.05	0.00	0.00	0.04	100.00	V
Asta 92 (142-147)	1	SLE Frequenti	CC1	0.00	-16.64	0.00	0.00	0.04	100.00	V
Asta 93 (152-142)	1	SLE Frequenti	CC1	0.00	12.23	0.00	0.00	0.04	100.00	V
Asta 94 (157-147)	1	SLE Frequenti	CC1	0.00	-62.28	0.00	0.00	0.04	100.00	V
Asta 130 (68-53)	1	SLE Quasi Permanenti	CC1	0.00	17.56	0.00	0.01868	0.03	1.61	V
Asta 131 (63-58)	5	SLE Quasi Permanenti	CC1	0.00	8.03	0.00	0.01697	0.03	1.77	V
Asta 132 (58-68)	1	SLE Quasi Permanenti	CC1	0.00	-33.55	0.00	0.02214	0.03	1.35	V
Asta 133 (88-58)	1	SLE Frequenti	CC1	0.00	0.14	0.00	0.00	0.04	100.00	V
Asta 134 (93-63)	1	SLE Frequenti	CC1	0.00	-0.55	0.00	0.00	0.04	100.00	V
Asta 135 (83-68)	7	SLE Quasi Permanenti	CC1	0.00	17.84	0.00	0.01898	0.03	1.58	V
Asta 136 (98-83)	3	SLE Quasi Permanenti	CC1	0.00	-17.83	0.00	0.00684	0.03	4.39	V
Asta 137 (88-93)	5	SLE Quasi Permanenti	CC1	0.00	8.18	0.00	0.01728	0.03	1.74	V
Asta 138 (98-88)	9	SLE Quasi Permanenti	CC1	0.00	-31.80	0.00	0.02082	0.03	1.44	V
Asta 139 (113-98)	6	SLE Quasi Permanenti	CC1	0.00	16.88	0.00	0.01796	0.03	1.67	V
Asta 140 (143-113)	1	SLE Quasi Permanenti	CC1	0.00	-28.87	0.00	0.00747	0.03	4.02	V
Asta 231 (15-5)	1	SLE Frequenti	CC1	0.00	2.51	0.00	0.00	0.04	100.00	V
Asta 233 (20-10)	9	SLE Quasi Permanenti	CC1	0.00	-15.66	0.00	0.0057	0.03	5.26	V
Asta 236 (30-15)	1	SLE Frequenti	CC1	0.00	-4.35	0.00	0.00	0.04	100.00	V
Asta 238 (35-20)	1	SLE Frequenti	CC1	0.00	-0.63	0.00	0.00	0.04	100.00	V
Asta 241 (45-30)	1	SLE Frequenti	CC1	0.00	-4.58	0.00	0.00	0.04	100.00	V
Asta 243 (50-35)	1	SLE Frequenti	CC1	0.00	-4.35	0.00	0.00	0.04	100.00	V
Asta 246 (75-45)	1	SLE Frequenti	CC1	0.00	-4.24	0.00	0.00	0.04	100.00	V
Asta 248 (80-50)	1	SLE Frequenti	CC1	0.00	-5.24	0.00	0.00	0.04	100.00	V
Asta 251 (105-75)	1	SLE Frequenti	CC1	0.00	-7.95	0.00	0.00	0.04	100.00	V
Asta 253 (110-80)	1	SLE Frequenti	CC1	0.00	-12.87	0.00	0.00	0.04	100.00	V

RELAZIONE DI CALCOLO

Archivio: PALESTRA POST.fnx - Data : 19/07/2023

Oggetto: Adeguamento palestra scuola media

Committente	Progettista architettonico	Progettista strutturale	Direttore dei Lavori
Geologo	Collaudatore	Appaltatore	

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1 Introduzione

1.1 Premessa

La presente relazione di calcolo è stata redatta ai sensi del §10.2 delle NTC 2018 e del §C.10.2 della Circolare esplicativa CSLLPP n.7/2019 con tutta la cura necessaria affinché la presentazione delle impostazioni del calcolo e dei risultati finali ne garantisca la leggibilità, la corretta interpretazione e la riproducibilità.

La relazione di calcolo, a tal fine, comprende, senza ambiguità ed in modo esaustivo:

- tipo di analisi svolta (vedi par. *“Tipo di calcolo”*)
- metodologie adottate per la risoluzione del problema strutturale (vedi par. *“Modello assunto per il calcolo”*);
- metodologie seguite per le verifiche o per il progetto-verifica delle sezioni (vedi par. *“Procedura di verifica degli elementi”*);
- combinazioni di carico adottate (vedi par. *“Condizioni di carico”*);
- criteri seguiti per la modellazione (vedi par. *“Dati struttura”*);
- titolo, autore, produttore, distributore, versione, estremi della licenza o di altro titolo d’uso (vedi par. *“Cenni sulla casa produttrice del software”*);
- documentazione fornita dal produttore e dal distributore a corredo del programma (vedi Allegato *“Giudizio motivato di accettabilità dei risultati”*):
 - a. una esauriente descrizione delle basi teoriche e degli algoritmi impiegati;
 - b. l’individuazione dei campi d’impiego;
 - c. i casi di prova interamente risolti e commentati con files di input che consentano la riproduzione dell’elaborazione

Si allega dichiarazione sulla valutazione dell’affidabilità e soprattutto dell’idoneità del programma nel caso specifico di applicazione in funzione degli esami condotti dal Progettista Strutturale (vedi par. *“Dichiarazione sull’accettabilità dei risultati”*).

Sono parte integrante gli schemi grafici rappresentativi delle sollecitazioni della struttura e delle configurazioni delle deformate dei diagrammi di involuppo associati alle combinazioni di carichi considerate (vedi Allegato *“Schemi grafici di calcolo”*).

Si sottolinea, infine, che i tabulati forniti dal software, cui la Relazione di calcolo fa riferimento ne costituiscono un allegato (vedi elaborato *“Tabulati di calcolo”*).

1.1.1 Cenni sulla casa produttrice del software

La relazione seguente riporta i dati relativi ai criteri di progettazione, alla geometria, alla meccanica della struttura descritta al relativo paragrafo, nonché i relativi risultati dei calcoli strutturali così come ricavati dal calcolatore elettronico tramite l’utilizzo del Software “FaTA Next” prodotto e distribuito da Stacec srl con sede in Bovalino (RC), e concesso in licenza al responsabile dei calcoli stessi.

FaTA Next è un programma sviluppato specificatamente per la progettazione e la verifica di edifici tridimensionali multipiano ed industriali realizzati con elementi strutturali in C.A., in Acciaio, in legno (massiccio e/o lamellare) o in muratura.

FaTA Next articola le operazioni di progetto secondo tre fasi distinte:

- 1) **preprocessore**: fase di Input dove viene definita e modellata interamente la struttura;
- 2) **solutore**: fase di elaborazione della struttura tramite un solutore agli elementi finiti;
- 3) **post-processore**: fase di verifica degli elementi, creazione degli elaborati grafici e della relazione di calcolo.

1.2 Descrizione dell’opera da calcolare

Comune : GENAZZANO
Provincia : ROMA
Oggetto : Adeguamento palestra scuola media

Committente :
Indirizzo :
Comune :
Provincia :
Telefono :
Indirizzo Email :

Progettista :
Architettonico :
Indirizzo :
Comune :
Provincia :
Telefono :
Indirizzo Email :
Indirizzo PEC :

Progettista Strutturale :
Indirizzo :
Comune :
Provincia :
Telefono :
Indirizzo Email :
Indirizzo PEC :

Direttore dei Lavori :
Indirizzo :
Comune :
Provincia :
Telefono :
Indirizzo Email :
Indirizzo PEC :

Geologo :
Indirizzo :
Comune :
Provincia :
Telefono :
Indirizzo Email :
Indirizzo PEC :

Collaudatore :
Indirizzo :
Comune :
Provincia :
Telefono :
Indirizzo Email :
Indirizzo PEC :

Appaltatore :
Indirizzo :
Comune :
Provincia :
Telefono :
Indirizzo Email :

Indirizzo PEC :
Nome File : PALESTRA POST.fnx

1.3 Localizzazione sito

Descrizione sito : Genazzano (Roma) - Lazio

Coordinate del sito

Latitudine (WGS84) : 41°.8258
Longitudine (WGS84) : 12°.9736
Latitudine (ED50) : 41°.8268
Longitudine (ED50) : 12°.9745
Altezza s.l.m. : 310.55 m

[Immagine non disponibile]

1.4 Riferimenti Legislativi

Tutte le operazioni illustrate nel proseguo, relative all'analisi della struttura ed alle verifiche sugli elementi sono state effettuate in piena conformità alle seguenti norme:

UNI ENV 1992-1-1: Eurocodice 2:

"Progettazione delle strutture in calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici"

UNI ENV 1993-1-1: Eurocodice 3:

"Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici."

UNI ENV 1998-1-1: Eurocodice 8:

"Indicazioni progettuali per la resistenza sismica delle strutture - Parte 1-1: Regole generali."

D.M. 17/01/2018:

"Norme tecniche per le costruzioni."

Circolare CSLPP n. 7 del 21/01/2019:

"Istruzioni per l'applicazione dell'aggiornamento delle «Norme tecniche per le costruzioni» di cui al decreto ministeriale 17 gennaio 2018."

CNR-DT 200 R1/2013 del 15/05/2014:

"Istruzioni per la progettazione, l'esecuzione ed il controllo di interventi di consolidamento statico mediante l'utilizzo di compositi fibrorinforzati."

1.5 Convenzioni, unità di misura e simboli adottati

Nei calcoli sono state utilizzate le seguenti unità:

- distanze : cm
- forze, tagli, e sforzi normali : kN
- coppie e momenti flettenti : kNm

- carichi sulle aste : kN/m^2
- carichi su superfici : kN/m^2
- peso specifico : kN/m^3
- tensioni e resistenze : N/mm^2
- temperatura : $^{\circ}\text{C}$

I simboli adottati hanno il seguente significato:

- q : fattore di comportamento;
- R_{ck} : Resistenza caratteristica cubica a compressione del calcestruzzo;
- f_{ck} : Resistenza caratteristica cilindrica a compressione del calcestruzzo;
- E_c : Modulo elastico secante del calcestruzzo;
- E_{ct} : Modulo elastico a trazione del calcestruzzo
- f_{cd} : Resistenza di calcolo del calcestruzzo;
- f_{ctk} : Resistenza caratteristica a trazione;
- ν : Coefficiente di Poisson;
- α_t : Coefficiente di dilatazione termica;
- γ_s : peso specifico;
- f_{yk} : Resistenza caratteristica di snervamento dell'acciaio;
- f_{tk} : Resistenza caratteristica di rottura dell'acciaio;
- f_d : resistenza di calcolo dell'acciaio;
- A : Superficie della sezione trasversale;
- $[R]$: Elemento con rinforzo;
- J_X : Momento di inerzia rispetto all'asse X;
- J_Y : Momento di inerzia rispetto all'asse Y;
- J_{XY} : Momento di inerzia centrifugo rispetto agli assi X ed Y;
- J_T : Fattore torsionale;
- N : sforzo normale;
- M_T : Momento Torcente;
- M_{XZ} : Momento Flettente X-Z;
- T_{XZ} : Taglio X-Z;
- M_{XY} : Momento Flettente X-Y;
- T_{YX} : Taglio X-Y;
- f_i : Frequenza del modo i-esimo;
- T_i : Periodo del modo i-esimo;
- Γ_X : Fattore di partecipazione del modo i-esimo in direzione x;
- Γ_Y : Fattore di partecipazione del modo i-esimo in direzione y;
- Γ_Z : Fattore di partecipazione del modo i-esimo in direzione z;
- N_{sd} : Sforzo Normale sollecitante di calcolo;
- $M_{sd,XZ}$: Momento Flettente X-Z sollecitante di calcolo;
- $M_{sd,XY}$: Momento Flettente X-Y sollecitante di calcolo;
- M_{tS} : Momento Torcente sollecitante di calcolo;
- $V_{sd,XZ}$: Taglio X-Z sollecitante di calcolo;
- $V_{sd,XY}$: Taglio X-Y sollecitante di calcolo;
- N_{Rd} : Sforzo Normale resistente di calcolo;
- $M_{Rd,XZ}$: Momento Flettente X-Z resistente di calcolo;
- $M_{Rd,XY}$: Momento Flettente X-Y resistente di calcolo;
- M_{tR} : Momento Torcente resistente di calcolo;
- $V_{Rd,XZ}$: Taglio X-Z resistente di calcolo;
- $V_{Rd,XY}$: Taglio X-Y resistente di calcolo;
- σ_c : Tensioni del calcestruzzo;
- σ_s : Tensioni delle armature;
- $\sigma_{c,lim}$: Tensioni limite del calcestruzzo;
- $\sigma_{s,lim}$: Tensioni limite dell'acciaio;
- f/l : rapporto freccia/lunghezza;
- f_{lim} : valore limite del rapporto freccia/lunghezza;

2 Descrizione del Modello

2.1 Modello assunto per il calcolo

L'analisi numerica della struttura è stata condotta attraverso l'utilizzo del metodo degli elementi finiti ipotizzando, a seconda dei casi, un comportamento elastico-lineare oppure elastoplastico.

Il metodo degli elementi finiti consiste nel sostituire il modello continuo della struttura con un modello discreto equivalente e di approssimare la funzione di spostamento con polinomio algebrico, definito in regioni (dette appunto elementi finiti) che sono delle funzioni interpolanti il valore di spostamento definito in punti discreti (detti nodi).

Gli elementi finiti utilizzabili ai fini della corretta modellazione della struttura verranno descritti di seguito.

Il modello di calcolo può essere articolato sulla base dell'ipotesi di impalcato rigido, in funzione della reale presenza di solai continui atti ad irrigidire tutto l'impalcato.

Tale ipotesi viene realizzata attraverso l'introduzione di adeguate relazioni cinematiche tra i gradi di libertà dei nodi costituenti l'impalcato stesso.

Il metodo di calcolo adottato, le combinazioni di carico, e le procedure di verifica saranno descritte di seguito.

Riferimento globale e locale

La struttura viene definita utilizzando una terna di assi cartesiani formanti un sistema di riferimento levogiro, unico per tutti gli elementi e chiamato "globale". Localmente esiste un ulteriore sistema di riferimento, detto appunto "locale", utile alla definizione delle caratteristiche di rigidezza dei singoli elementi.

I due sistemi di riferimento sono correlati da una matrice, detta di rotazione.

Modellazione geometrica della struttura

Il modello geometrico (mesh) della struttura è basato sull'utilizzo dei seguenti elementi:

- Nodi

Si definiscono nodi, entità geometriche determinate tramite le tre coordinate nel riferimento globale.

I nodi, nello spazio tridimensionale, posseggono tre gradi di libertà traslazionali e tre rotazionali.

Essi sono posizionati in modo da definire gli estremi degli elementi finiti e, di regola, in ogni discontinuità strutturale, di carico, di caratteristiche meccaniche, di campo di spostamento.

- Vincoli e Molle

I gradi di libertà possono essere vincolati, bloccando il cinematismo nella direzione voluta o assegnando "molle" applicate ai nodi tramite valori di rigidezza finiti.

Un vincolo assegna a priori un valore di spostamento nullo, e quindi la variabile corrispondente viene eliminata.

- Vincoli interni

Tali vincoli servono a definire le modalità di trasmissione degli sforzi dall'elemento finito ai nodi. Ciò viene associato al concetto di trasferimento della rigidezza.

Generalmente l'elemento considerato è rigidamente connesso ai nodi che lo definiscono, in modo da bloccare tutti i gradi di libertà relativi. E' possibile, comunque "rilasciare" le caratteristiche delle sollecitazioni, in modo da svincolare i gradi di libertà corrispondenti. Nel caso particolare, il modello utilizzato consente di svincolare le tre rotazioni intorno agli assi locali dell'asta.

- Aste

Si tratta di elementi finiti monodimensionali ad asse rettilineo delimitate da due nodi (i nodi di estremità).

Per questi elementi generalmente la funzione interpolante è quella del modello analitico per cui la mesh non influisce sensibilmente sulla convergenza.

Le aste sono dotate di rigidezza assiale, flessionale, e a taglio, secondo il modello classico della trave inflessa di Eulero- Bernoulli e/o Timoshenko.

Alla singola asta è possibile associare una sezione costante per tutta la sua lunghezza.

- Asta su suolo elastico

Si tratta di elementi finiti monodimensionali ad asse rettilineo, di definizione simile alle aste. Sono utili a modellare travi di fondazione, considerate poggianti su suolo alla **Winkler**, e reagenti sia rispetto alle componenti traslazionali di cinematismo, sia rotazionali.

-Asta con plasticità diffusa

Si tratta di un elemento finito monodimensionale in grado di modellare la risposta elastoplastica in ogni punto dello stesso. A tal proposito l'asse della trave viene discretizzato in un numero finito di sezioni (significative ai fini dell'integrazione numerica) ognuna delle quali viene a sua volta suddivisa in un certo numero di fibre. La risposta 3d assiale e flessionale viene ottenuta attraverso l'integrazione delle sollecitazioni relative alla singola fibra sull'intera sezione trasversale.

- Lastra-Piastra

Si tratta di elementi finiti bidimensionali, definiti da tre o quattro nodi, posti ai vertici rispettivamente di un triangolo o di un quadrilatero irregolare. La geometria reale dell'elemento viene ricondotta ad un triangolo rettangolo (elemento a tre nodi) o ad un quadrato definito nella trattazione isoparametrica.

L'elemento lastra-piastra non ha rigidità per la rotazione intorno all'asse perpendicolare al suo piano e viene trattato secondo la teoria di **Mindlin-Reissner**. Nel modello considerato si tiene conto dell'accoppiamento tra azioni flessionali e membranali.

- Forze e coppie concentrate

Per la risoluzione statica della struttura, tutti i carichi applicati agli elementi vengono trasferiti ai nodi. Ciò avviene in automatico per il peso delle aste, delle piastre, delle pareti, dei pannelli di carico presenti sulle aste e per la distribuzione di carico applicate agli elementi bidimensionali.

Il modello di calcolo consente anche l'introduzione di forze e coppie ai nodi.

Le forze sono dirette lungo le tre direzioni del sistema di riferimento globale ed in entrambi i versi per ogni direzione.

Le coppie concentrate sono riferite ai tre assi del riferimento globale, in entrambi i versi di rotazione di ciascun asse.

- Carichi distribuiti

Il modello di calcolo consente anche l'introduzione di carichi ripartiti sulle aste e di distribuzione di carico su piastre e pareti.

I carichi ripartiti sulle aste possono essere riferite sia al riferimento globale, sia al riferimento locale, lungo le tre direzioni ed in entrambe i versi. E' possibile anche introdurre carichi distribuiti torcenti agenti intorno all'asse dell'asta ed in entrambe i versi di rotazione.

Tutti i tipi di carico ripartito devono avere forma trapezia.

Sugli elementi bidimensionali, che fanno parte della mesh di piastre e pareti, è possibile assegnare una distribuzione uniforme, avente le caratteristiche di una pressione diretta ortogonalmente all'elemento.

- Pannelli di carico

Il pannello di carico è un concetto legato alla reale distribuzione di carichi gravanti sulle aste. Ne fanno parte: solai, balconi, scale.

Da tali pannelli, di forma irregolare come definiti dalla geometria dell'input, si passa alla quantificazione dei carichi trapezoidali ripartiti sulle aste. Per meglio simulare l'effetto dei pannelli, vengono generati in modo automatico anche dei carichi ripartiti torcenti, anch'essi di forma trapezia, relativi ai carichi distribuiti equivalenti al pannello.

- Sezioni

Le sezioni assegnabili alle aste sono definite attraverso le caratteristiche geometrico-elastiche, i moduli di resistenza plastici (sezioni in acciaio) ed il materiale.

Materiali

I parametri che descrivono il comportamento meccanico dei materiali variano in funzione di:

- Natura del materiale;

- Tipo di analisi (Lineare o non Lineare);
- Modello meccanico adottato.
- Comportamento isotropo, ortotropo ed anisotropo.

Oltre a questi vengono associati anche il peso dell'unità di volume ed il coefficiente di dilatazione termica.

Matrici di calcolo della struttura

Dalla discretizzazione geometrica della struttura vengono definite le matrici utili a studiare il comportamento globale della struttura in esame.

- Matrice di rigidezza

Tale matrice viene costruita partendo dalla matrice di rigidezza espressa nel sistema di riferimento locale dell'elemento considerato. Attraverso un'operazione di trasformazione, mediante la matrice di rotazione, viene riferita al sistema di riferimento globale. L'ultima operazione consiste nell'"assemblaggio" delle singole matrici di ogni elemento, in modo da formare un'unica matrice relativa all'intera struttura.

- Matrice delle masse

La generazione della matrice globale è del tutto analoga a quella sopra descritta per la matrice di rigidezza. La matrice delle masse è di tipo "consistent" e considera l'effettiva distribuzione delle masse della struttura. Come definito dalla normativa, alle masse relative ai carichi permanenti, viene aggiunta un'aliquota delle masse equivalenti ai carichi d'esercizio.

- Matrice di smorzamento

Il modello di smorzamento adottato è di tipo viscoso ed in modo particolare quello di **Rayleigh** detto anche smorzamento proporzionale. Secondo tale modello la matrice di smorzamento viene calcolata secondo la relazione:

$$C = \alpha M + \beta K$$

dove α e β sono le costanti di smorzamento di **Rayleigh**.

2.2 Tipo di calcolo

2.2.1 Analisi statica lineare

Il calcolo risolutivo della struttura viene condotto utilizzando un sistema di equazioni lineari (di dimensioni pari ai gradi di libertà), secondo la relazione:

$$u = K^{-1} F$$

dove:

- F** : vettore dei carichi risultanti applicate ai nodi;
- u** : vettore dei cinematismi nodali;
- K** : matrice di rigidezza globale.

Tale analisi è stata ripetuta per tutte le condizioni presenti sulla struttura, identificati dai vettori dei carichi relativi a:

- carichi permanenti;
- carichi d'esercizio;
- delta termico;
- torsioni accidentali;
- carichi utente;

2.2.2 Analisi dinamica lineare

L'analisi sismica nella componente orizzontale è basata sulla teoria ed i concetti propri dell'analisi modale.

L'analisi modale consente di determinare le oscillazioni libere della struttura discretizzata.

Tali modi di vibrare sono legati agli autovalori e autovettori del sistema dinamico generalizzato, che può essere riassunto in:

$$\mathbf{K} \mathbf{a} = \omega^2 \mathbf{M} \mathbf{a}$$

dove:

\mathbf{K} : matrice di rigidezza globale;
 \mathbf{M} : matrice delle masse globale;
 \mathbf{a} : autovettori (forme modali);
 ω^2 : autovalori del sistema generalizzato.

La frequenza f dei modi di vibrare è calcolata mediante la seguente formula:

$$f = \frac{\omega}{2\pi}$$

Il periodo T è calcolato come:

$$T = \frac{1}{f}$$

I "fattori di partecipazione modali" possono essere calcolati mediante la seguente formula:

$$\Gamma_i = \boldsymbol{\phi}_i^T \mathbf{M} \mathbf{I}$$

dove:

$\boldsymbol{\phi}_i$: autovettori normalizzati relativi al modo i -esimo;
 \mathbf{I} : vettore di trascinamento (o di direzione di entrata del sisma).

Per ogni direzione del sisma vengono scelti i modi efficaci al raggiungimento del valore imposto dalla normativa (85%).

Il parametro di riferimento è il "fattore di partecipazione delle masse", la cui formulazione è:

$$\Lambda_{xi} = \frac{\Gamma_i^2}{M_{tot}}$$

I cinematismi modali vengono calcolati come:

$$\mathbf{u}_i = \boldsymbol{\phi}_i \Gamma_i \frac{S_d(T_i)}{\omega_i^2}$$

dove:

$S_d(T_i)$: ordinata spettro di risposta orizzontale o verticale;
 ω^2 : autovalore del modo i -esimo.

Gli effetti relativi ai modi di vibrare, vengono combinati utilizzando la combinazione quadratica completa (CQC):

$$E = \sqrt{\sum_i \sum_j \rho_{ij} E_i E_j}$$

con ρ_{ij} rappresenta il coefficiente di correlazione tra il modo i -esimo ed il modo j -esimo ed ha la seguente

espressione:

$$\rho_{ij} = \frac{8\xi^2(1 + \beta_{ij})\beta_{ij}^{3/2}}{(1 - \beta_{ij}^2)^2 + 4\xi^2\beta_{ij}(1 + \beta_{ij}^2) + 8\xi^2\beta_{ij}^2}$$

dove:

ξ : rapporto di smorzamento viscoso;

β_{ij} : rapporto tra le frequenze di ciascuna coppia di modi f_i/f_j ;

E_i ed E_j : effetti considerati in valore assoluto.

La condizione "Torsione Accidentale" contiene il momento torcente generato dalla forza sismica di piano per l'eccentricità calcolata in funzione della dimensione massima dell'ingombro in pianta nella direzione ortogonale a quella considerata.(5%).

2.3 Azioni sulla struttura

2.3.1 Azione sismica

La valutazione delle azioni sismiche sulle strutture viene condotta in relazione ad un periodo di riferimento c che si ricava moltiplicando la vita nominale V_N per il coefficiente d'uso C_U (§2.4.3 NTC 2018).

Nel caso specifico risulta:

$V_N = 50$ anni (Opere ordinarie, ponti, opere infrastrutturali e dighe di dimensioni contenute o di importanza normale)

$C_U = 1.5$ anni (Classe d'uso III §2.4.2 NTC 2018)

$V_R = 75$ anni

Gli stati limite nei confronti dell'azione sismica, in relazione alle prestazioni della costruzione nel suo complesso, si dividono in:

Stati limite di esercizio

Stato Limite di Operatività (**SLO**);

Stato Limite di Danno (**SLD**).

Stati limite ultimi

Stato Limite di salvaguardia della Vita (**SLV**);

Stato Limite di prevenzione del Collasso (**SLC**).

Per ciascuno degli stati limite considerati viene associata una probabilità di superamento nel periodo di riferimento P_{V_R} (Tab. 3.2.I. NTC 2018).

Per ogni valore di P_{V_R} viene calcolato il periodo di ritorno medio T_R di un evento avente quell'entità attraverso la seguente relazione:

$$T_R = -\frac{V_R}{\ln(1 - P_{V_R})}$$

i valori così ottenuti vengono riportati nella seguente tabella:

Stato limite	P_{V_R} [%]	T_R [anni]
SLO	81	45
SLD	63	75
SLV	10	712

SLC	5	1462
-----	---	------

2.3.1.1 Pericolosità sismica di base

L'elemento di conoscenza primario per la valutazione delle azioni sismiche in un determinato sito è rappresentato dalla "pericolosità sismica di base". Questa viene espressa, per ogni stato limite, in funzione della probabilità di superamento P_{VR} in termini di spettro di risposta in accelerazione per un suolo di categoria C.

I parametri che identificano la pericolosità sismica di base sono:

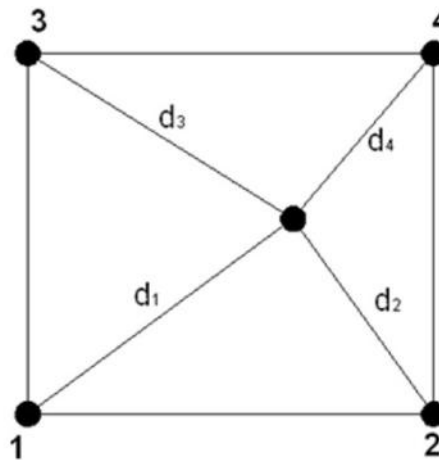
- a_g : accelerazione orizzontale massima al sito;
- F_0 : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;
- T_C^* : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale.

Tali parametri vengono forniti dalla norma (NTC 2018), per diversi periodi di ritorno T_R , su tutto il territorio nazionale in un numero di punti che definiscono un reticolo di riferimento. Pertanto, per ogni punto del territorio nazionale è possibile individuare quattro punti del reticolo in modo da definire una maglia. I parametri sismici di tale punto si ottengono da quelli della maglia attraverso la seguente relazione:

$$p = \frac{\sum_{i=1}^4 \frac{p_i}{d_i}}{\sum_{i=1}^4 \frac{1}{d_i}}$$

dove:

- p : generico parametro (a_g, F_0, T_C^*) da calcolare per il punto oggetto di studio;
- d_i : distanza tra il punto oggetto di studio e l' i -esimo punto della maglia;
- p_i : valore del generico parametro (a_g, F_0, T_C^*) nell' i -esimo punto della maglia.



Nel caso specifico si ha:

Coordinate del sito

Latitudine (ED50): 41°.8268

Longitudine (ED50): 12°.9745

Identificativi e coordinate (Datum ED50) dei punti che includono il sito		
Numero punto	Latitudine [°]	Longitudine [°]
28741	41°.8337	12°.9534
28964	41°.7840	13°.0209
28963	41°.7837	12°.9538
28742	41°.8340	13°.0205

	Parametri dello spettro di risposta orizzontale			
	SLV	SLC	SLD	SLO
Tempo di ritorno [anni]	712	1462	75	45

Accelerazione sismica [g]	0.178	0.218	0.081	0.066
Coefficiente F_0	2.486	2.505	2.472	2.464
Periodo T_C^* [sec]	0.315	0.324	0.283	0.273

Una volta valutati i parametri che definiscono la pericolosità sismica di base è possibile calcolare le ordinate spettrali degli spettri di risposta in accelerazione mediante le seguenti relazioni:

$$0 \leq T < T_B \quad S_e(T) = a_g F_0 \left[\frac{T}{T_B} + \frac{1}{F_0} \left(1 - \frac{T}{T_B} \right) \right]$$

$$T_B \leq T < T_C \quad S_e(T) = a_g F_0$$

$$T_C \leq T < T_D \quad S_e(T) = a_g F_0 \left(\frac{T_C}{T} \right)$$

$$T_D \leq T \quad S_e(T) = a_g F_0 \left(\frac{T_C T_D}{T^2} \right)$$

Dove:

F_0 : fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale, ed ha valore minimo pari a 2.2;

T_C : è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro

$$T_C = T_C^*$$

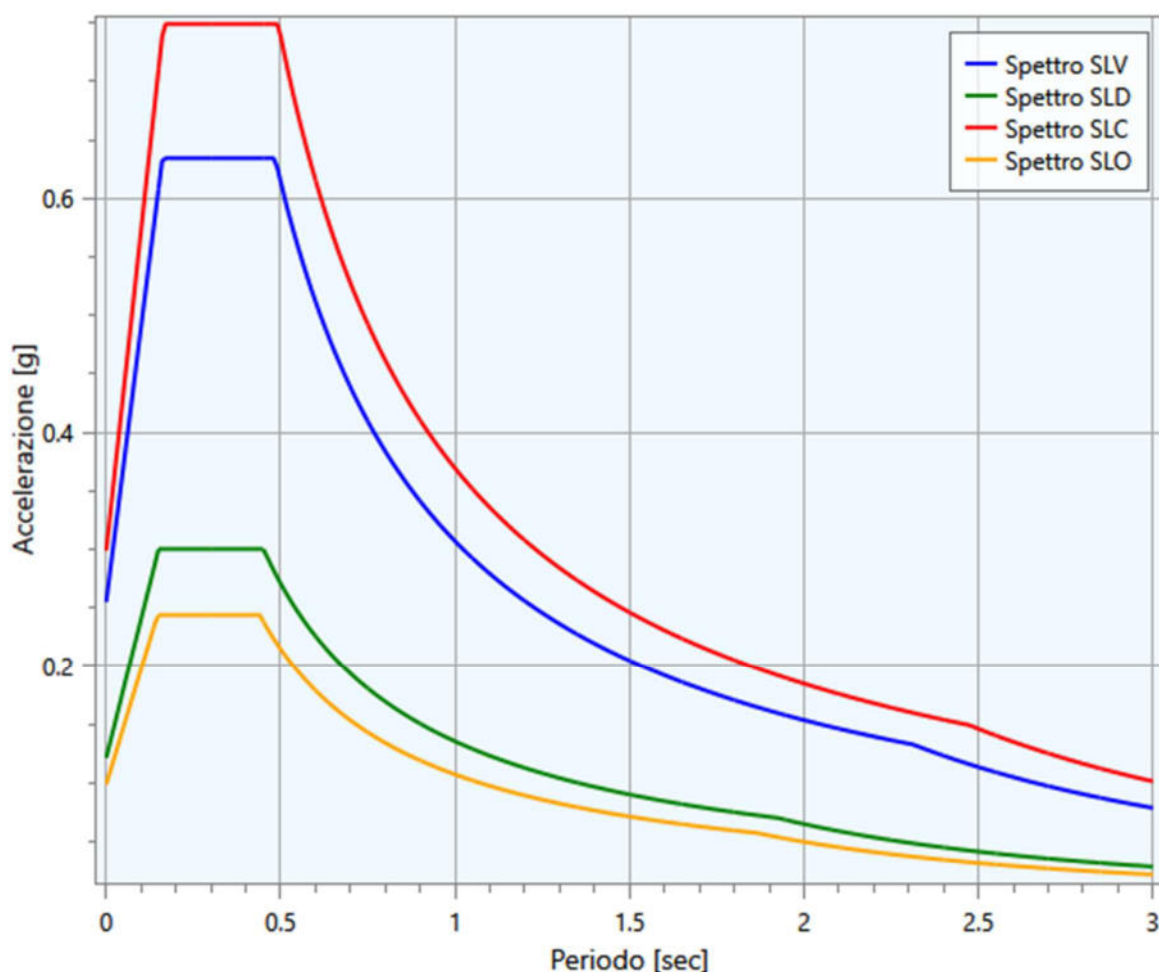
T_B : è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;

$$T_B = \frac{T_C}{3}$$

T_D : è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro, espresso in secondi mediante la relazione:

$$T_D = 4.0 \frac{a_g}{g} + 1.6$$

Le forme spettrali così valutate vengono riportate per ogni stato limite nella figura seguente.



	Periodi caratteristici dello spettro di risposta orizzontale			
	SLV	SLC	SLD	SLO
$T_B[sec]$	0.161	0.164	0.15	0.147
$T_C[sec]$	0.484	0.493	0.451	0.44
$T_D[sec]$	2.312	2.472	1.924	1.864
C_c	1.54	1.52	1.59	1.61

	Periodi caratteristici dello spettro di risposta verticale			
	SLV	SLC	SLD	SLO
$T_B[sec]$	0.05	0.05	0.05	0.05
$T_C[sec]$	0.15	0.15	0.15	0.15
$T_D[sec]$	1.00	1.00	1.00	1.00
C_c	1.54	1.52	1.59	1.61

2.3.1.2 Azione sismica di progetto

La definizione dell'azione sismica di progetto necessita di studi opportuni in merito agli effetti della risposta sismica locale. Tuttavia, per come specificato al §3.2.2 dell'NTC 2018, in assenza di tali analisi è possibile far riferimento all'approccio semplificato proposto dalla stessa normativa che si basa sull'individuazione di una categoria di sottosuolo. Valutata tale categoria da parte del progettista, in base ai valori della velocità equivalente $V_{S,30}$ di propagazione delle onde di taglio entro i primi 30 m di profondità, la norma fornisce dei parametri che modificano lo spettro di risposta per tenere conto degli effetti di sito. Tali parametri vengono riportati nella Tabella 3.2.V dello stesso NTC e per il caso oggetto di studio (Categoria **C**), per i diversi stati limite, risultano:

Stato limite	S_s	C_c
--------------	-------	-------

SLO	1.50	1.61
SLD	1.50	1.59
SLV	1.434	1.54
SLC	1.372	1.52

Inoltre, per tener conto delle condizioni topografiche e in assenza di specifiche analisi di risposta sismica locale, si utilizzano i valori del coefficiente topografico S_T riportati nella Tabella 3.2.VI, in funzione delle categorie topografiche definite in § 3.2.2 e dell'ubicazione dell'opera o dell'intervento. Per il caso in esame (Categoria **T1**) si ha:

$$S_T = 1.0$$

Attraverso tali parametri le forme spettrali vengono calcolate per come segue:

$$0 \leq T < T_B \quad S_e(T) = a_g S \eta F_0 \left[\frac{T}{T_B} + \frac{1}{\eta F_0} \left(1 - \frac{T}{T_B} \right) \right]$$

$$T_B \leq T < T_C \quad S_e(T) = a_g S \eta F_0$$

$$T_C \leq T < T_D \quad S_e(T) = a_g S \eta F_0 \left(\frac{T_C}{T} \right)$$

$$T_D \leq T \quad S_e(T) = a_g S \eta F_0 \left(\frac{T_C T_D}{T^2} \right)$$

dove:

S : coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente:

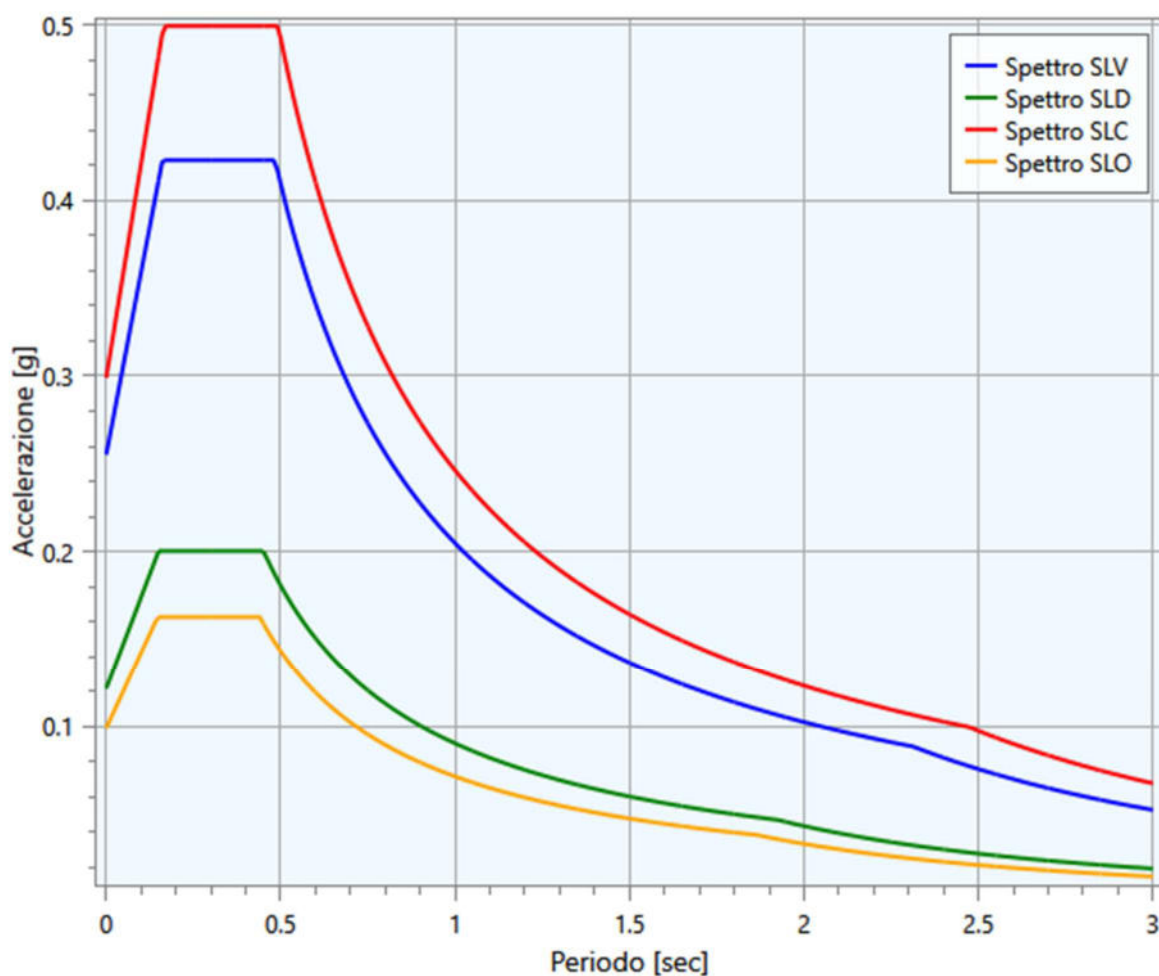
$$S = S_S S_T$$

η : fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali ξ diversi dal 5%, mediante la relazione:

$$\xi = \sqrt{\frac{10}{5 + \xi}} \geq 0.55$$

dove ξ (espresso in percentuale) è valutato sulla base di materiali, tipologia strutturale e terreno di fondazione;

Per il caso in esame, assunto uno smorzamento convenzionale $\xi = 5\%$, gli spettri di progetto della componente orizzontale del moto vengono riportati nel grafico seguente.



Qualora necessari, gli spettri di risposta che definiscono la componente verticale del moto sismico possono essere calcolati sostituendo nelle equazioni appena viste il coefficiente F_0 con F_V , calcolato mediante la seguente equazione:

$$F_V = 1.35 F_0 \left(\frac{a_g}{g} \right)^{0.5}$$

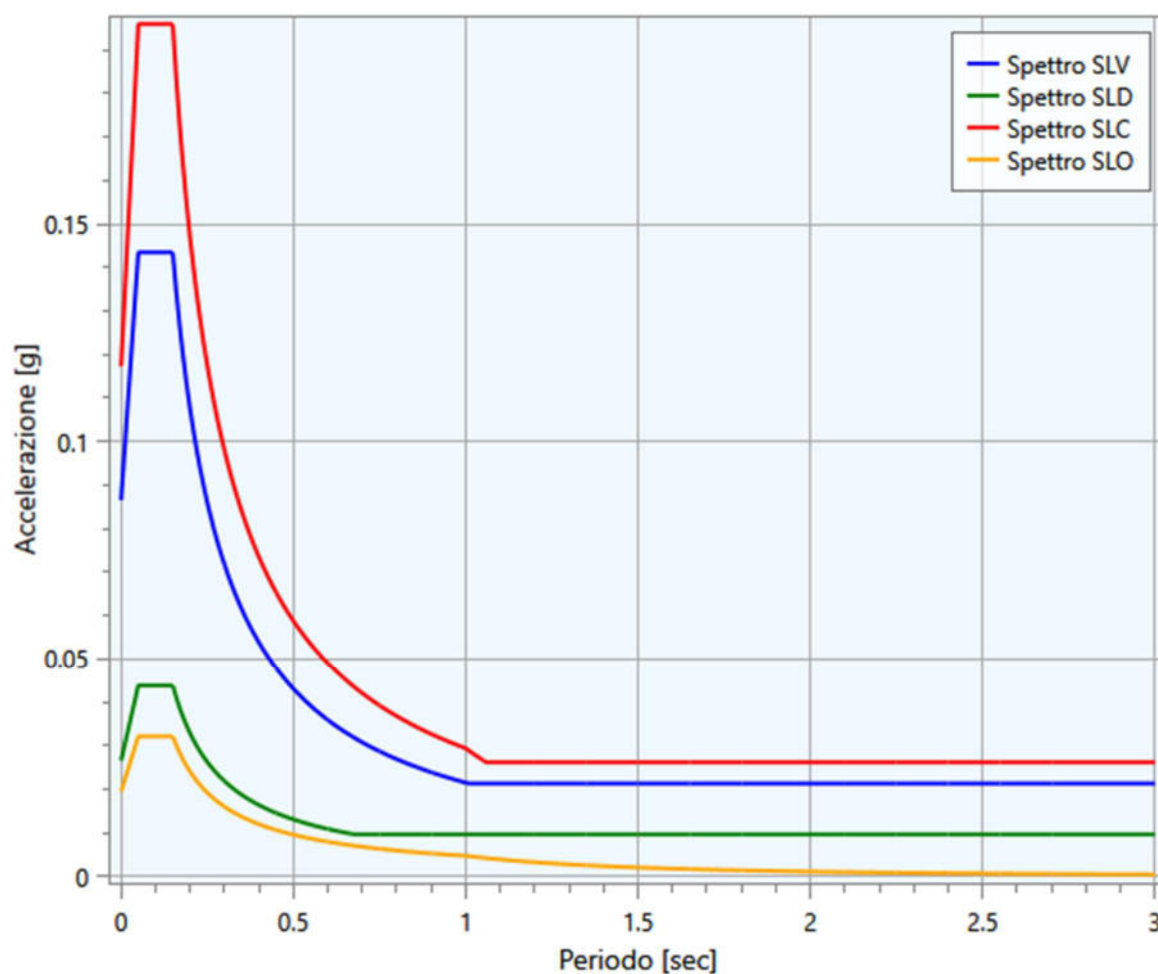
Ed utilizzando, in mancanza di analisi specifiche, per ogni categoria di sottosuolo i seguenti parametri:

$$S_S = 1.00; T_B = 0.05 \text{ sec}; T_C = 0.15 \text{ sec}; T_D = 1.00 \text{ sec}$$

Per il caso in esame, per ogni stato limite, i valori del coefficiente F_V risultano:

Stato limite	F_V
SLO	0.85
SLD	0.95
SLV	1.42
SLC	1.58

e di seguito vengono rappresentate le forme spettrali.



Con le analisi lineari mediante l'utilizzo dello spettro di progetto $S_d(T)$ per gli stati limite ultimi, viene effettuata la seguente sostituzione:

$$\eta = \frac{1}{q}$$

Il parametro q , chiamato fattore di comportamento, assume i seguenti valori:

Fattore di comportamento in direzione X (q_x)	1.50
Calcolato considerando i seguenti parametri	
Tipo Struttura	Calcestruzzo
Regolarità in elevazione	no
Regolarità in pianta	no
K_r	1.00
Tipologia Edificio	Strutture a telaio a più piani e più campate
a_u / a_1	1.10
Tipologia Strutturale	Strutture a telaio, a pareti accoppiate, miste
Modalità di collasso	Strutture a telaio e miste equivalenti a telai
α_0	0.00
K_w	1.00

Fattore di comportamento in direzione Y (q_y)	1.50
Calcolato considerando i seguenti parametri	
Tipo Struttura	Calcestruzzo
Regolarità in elevazione	no
Regolarità in pianta	no
K_r	1.00

Tipologia Edificio	Strutture a telaio a più piani e più campate
au / a1	1.10
Tipologia Strutturale	Strutture a telaio, a pareti accoppiate, miste
Modalità di collasso	Strutture a telaio e miste equivalenti a telai
α_0	0.00
Kw	1.00

Fattore di comportamento in direzione Z (qx)	1.50
---	-------------

Il progetto della struttura è stato effettuato considerando un comportamento non dissipativo.

2.3.2 Pesi Impalcati.

Ai fini della valutazione dei pesi "W" a livello dei vari impalcati, si tiene conto dei carichi di tipo G1 relativi agli elementi strutturali e dei carichi di tipo G2 relativi agli elementi non strutturali sommati ai sovraccarichi d'esercizio Qk moltiplicati per una aliquota Ψ_{2i} (determinata dalla destinazione d'uso dell'opera ai vari piani

$$W_i = G1_i + G2_i + \Psi_{2i} \cdot Q_{ki}$$

Dove il pedice "i" è il piano i-esimo della struttura.

Impalcato	Destinazione	Ψ_{2i}
Fondazione	Categoria C: Ambienti suscettibili di affollamento	0.6
Piano 1	Categoria C: Ambienti suscettibili di affollamento	0.6
Piano 2	Categoria C: Ambienti suscettibili di affollamento	0.6
Piano 3	Categoria H: Coperture	0.0
Piano 4	Categoria H: Coperture	0.0

Per balconi e scale verranno usati i coefficienti calcolati come i maggiori tra quelli relativi alla categoria di carico di piano ed i seguenti:

Cat.	Destinazione	Ψ_{2i}
C2	Balconi, ballatoi e scale	0.6

2.3.2 Carico neve

Di seguito sono fornite le indicazioni per la determinazione dei valori dei carichi della neve da impiegarsi nella progettazione strutturale di edifici e di opere di ingegneria civile e non si applica per siti posti a quota maggiore di 1500 m, per i quali sono necessarie adeguate indagini statistiche e specifici studi locali che tengano conto sia dell'altezza del manto nevoso che della sua densità.

In generale il carico della neve al suolo dipende dalle condizioni locali di clima e di esposizione, considerata la variabilità delle precipitazioni nevose da zona a zona.

Nel progetto si dovrà tenere conto del fatto che la neve può depositarsi su di una copertura secondo più modalità differenti. Le caratteristiche del tetto o gli altri fattori che influiscono sulle modalità di deposizione della neve sulla copertura, comprendono:

- la forma della copertura;
- le sue proprietà termiche;
- la scabrezza della sua superficie;
- l'ammontare della quantità di calore prodotto al di sotto della copertura;
- la distanza da edifici vicini;
- il terreno circostante;
- le condizioni meteorologiche locali, in particolare la ventosità, le variazioni di temperatura e la probabilità di precipitazioni (sia di pioggia sia nevose).

In generale vengono esaminate due seguenti distribuzioni principali di carico di base:

- carico della neve sulle coperture uniformemente distribuito;
- carico della neve sulle coperture con accumuli.

Il calcolo del carico neve è stato effettuato ai sensi del D.M. del 17 gennaio 2018: "Norme tecniche per le costruzioni".

2.3.2.1 Dati del caso in esame

Coordinate del sito

Latitudine (ED50) : 41°.8268
 Longitudine (ED50) : 12°.9745
 Altezza s.l.m. : 310.55 m

Dati caratteristici del sito

Zona : Zona III
 Classe esposizione : Battuta dai venti

Tipologia della costruzione

A una falda

Dati Geometrici

Angolo falda : 0.0 °

2.3.2.2 Carico della neve sulle coperture

Il carico neve sulle coperture è valutato con la seguente espressione:

$$q_s = q_{sk} \cdot \mu_i \cdot C_e \cdot C_t$$

Dove:

q_{sk} : valore di riferimento del carico neve al suolo riferito ad un periodo di ritorno di 50 anni;
 μ_i : coefficiente di forma della copertura;
 C_e : coefficiente di esposizione che viene utilizzato per modificare il carico neve in funzione delle

caratteristiche dell'area in cui sorge l'opera;
 C_t : coefficiente termico;

2.3.2.3 Carico neve caratteristico riferito al suolo

Per il calcolo di q_{sk} si è utilizzata la seguente espressione:

$$\begin{aligned} q_{sk} &= 0.60 \text{ kN/m}^2 && \text{per } a_s \leq 200 \text{ m} \\ q_{sk} &= 0.51 [1 + (a_s/481)^2] \text{ kN/m}^2 && \text{per } a_s > 200 \text{ m} \end{aligned}$$

Dove:

a_s : quota del suolo sul livello del mare nel sito dove è realizzata la costruzione;

Le relazioni appena descritte sono valide per **Zona III**:

Agrigento, Brindisi, Cagliari, Caltanissetta, Carbonia-Iglesias, Caserta, Catania, Catanzaro, Cosenza, Crotone, Enna, Grosseto, Latina, Lecce, Livorno, Matera, Medio Campidano, Messina, Napoli, Nuoro, Ogliastra, Olbia-Tempio, Oristano, Palermo, Pisa, Potenza, Ragusa, Reggio Calabria, Roma, Salerno, Sassari, Siena, Siracusa, Taranto, Terni, Trapani, Vibo Valentia, Viterbo.

Nel caso in esame l'altezza sul livello del mare della costruzione è di 310.55 m per cui il valore di riferimento del carico neve al suolo (q_{sk}) è 0.72 kN/m².

2.3.2.4 Coefficiente di forma della copertura

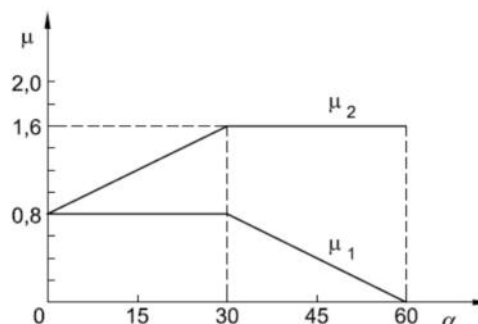
I coefficienti di forma delle coperture dipendono dalla forma stessa della copertura e dall'inclinazione sull'orizzontale delle sue parti componenti e dalle condizioni climatiche locali del sito ove sorge la costruzione. Rappresenta il rapporto tra il valore del carico della neve sul tetto ed il carico della neve al suolo uniformemente distribuito, senza le influenze degli effetti termici e di esposizione.

I valori utilizzati sono stati calcolati secondo le indicazioni dell'Eurocodice 1 – UNI EN 1991-1-3:2004 - "Parte 1-3: Azioni in generale - Carichi da neve".

Nel caso in esame la tipologia della copertura è assimilabile a: A una falda;

Nel caso in esame siamo nelle condizioni di **neve impedita di scivolare**, e quindi il coefficiente di forma μ_i non potrà essere assunto inferiore a 0.8 indipendentemente dall'angolo di inclinazione delle falde.

Per questa tipologia di copertura il coefficiente è da calcolare in funzione dell'angolo di inclinazione della falda (0.0 °), considerando il seguente grafico:



Nel caso in esame $\mu_1 = 0.80$;

2.3.2.5 Coefficiente di esposizione

Il coefficiente di esposizione è un coefficiente utile a definire la riduzione o l'aumento del carico sul tetto di un edificio non riscaldato, quale frazione del carico della neve caratteristico al suolo. Il suo valore tiene conto delle caratteristiche specifiche dell'area in cui sorge l'opera.

Nella scelta del valore di C_e si tiene conto del futuro sviluppo dei dintorni del sito in studio.

Nel caso in esame $C_e = 0.90$ è valido per topografia:

- Battuta dai venti (Aree pianeggianti non ostruite esposte su tutti i lati, senza costruzioni o alberi più alti).

2.3.2.6 Coefficiente termico

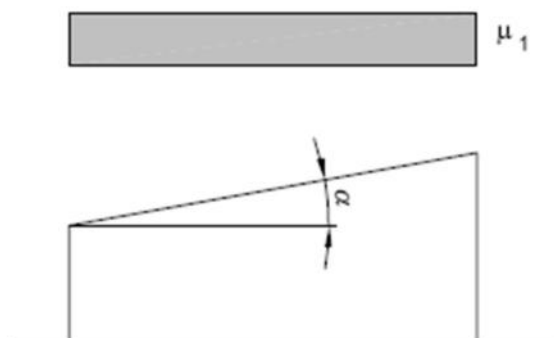
Il coefficiente termico tiene conto della riduzione del carico della neve, a causa dello scioglimento della stessa, causata dalla perdita di calore della costruzione. Tale coefficiente dipende dalla proprietà di isolamento termico del materiale utilizzato in copertura.

In assenza di studi specifici e documentativi viene utilizzato il valore $C_t = 1$.

2.3.2.7 Condizioni di carico da valutare

Per il caso in esame si utilizzano le seguenti condizioni di carico:

Condizioni	Falda	$q_s \text{ Ini}$ [kN/m ²]	$q_s \text{ Fin}$ [kN/m ²]
Cond. 1	Falda 1	0.52	0.52



2.3.3 Carico vento

Di seguito sono fornite le indicazioni per la determinazione dei valori dei carichi statici equivalenti al vento da impiegarsi nella progettazione strutturale di edifici e di opere di ingegneria civile nel caso costruzioni usuali, per le quali non è richiesto l'uso di metodologie di calcolo sperimentali di tipo avanzato. Non si applica per siti posti a quota maggiore di 1500 m, i cui valori di velocità base di riferimento possono essere ricavati da opportuna documentazione o da indagini statistiche adeguatamente comprovate.

I seguenti paragrafi contengono la valutazione della velocità e della pressione cinetica del vento di progetto, la determinazione dei coefficienti degli effetti aerodinamici riferiti ai casi tipologici più comuni, al fine di modellare l'azione del vento (pressioni, forze, momenti, ecc.) da impiegare sull'organismo strutturale resistente complessivo e sui suoi elementi componenti, ivi comprese le parti strutturali e non strutturali.

La valutazione delle azioni e degli effetti del vento sulle costruzioni verrà elaborata in funzione dei seguenti parametri:

- posizione geografica e l'altitudine sul livello del mare della costruzione;
- periodo di ritorno di progetto T_R ;

- caratteristiche del sito ove sorge la costruzione (rugosità e topografia);
- forma, dimensioni e orientamento della costruzione;

Il calcolo del carico vento è stato effettuato ai sensi del D.M. del 17 gennaio 2018: "Norme tecniche per le costruzioni", integrato dalle indicazioni per le varie tipologie di costruzione delle Linee Guida CNR DT 207/2008.

2.3.3.1 Dati del caso in esame

Coordinate del sito

Latitudine (ED50) : 41°.8268
Longitudine (ED50) : 12°.9745
Altezza s.l.m. : 310.55 m

Dati caratteristici del sito

Zonazione per vento : Zona 3
Categorie di esposizione : Cat. III

Tipologia della costruzione

Pareti laterali di Edifici a pianta rettangolare
Tipo di superficie : Ruvida (calcestruzzo ruvido, superfici catramate)

Dati di calcolo

Tempo di ritorno : 50 Anni

2.3.3.2 Pressione del vento

Le azioni aerodinamiche di picco esercitate dal vento su ciascuna faccia delle superfici di una costruzione o dei suoi elementi si traducono in sovrappressioni e depressioni p agenti normalmente alle superfici sia esterne che interne.

La pressione del vento è data dall'espressione:

$$p = q_r \cdot c_e \cdot c_p \cdot c_d$$

Dove:

q_r : pressione cinetica di riferimento;
 c_e : coefficiente di esposizione;
 c_p : coefficiente di pressione;
 c_d : coefficiente dinamico (pari ad 1);

Le sovrappressioni sono definite convenzionalmente positive e le depressioni sono definite convenzionalmente negative.

2.3.3.3 Pressione cinetica di riferimento

La pressione cinetica di riferimento q_r (o di picco) è data dall'espressione:

$$q_r = \frac{1}{2} \rho v_r^2$$

Dove:

v_r : velocità di riferimento del vento;
 ρ : densità dell'aria (pari a 1.25 kg/m^3);

La pressione cinetica di picco rappresenta il valore atteso della pressione cinetica massima. Esprimendo ρ in kg/m^3 e v_r in m/s , q_r risulta espresso in N/m^2 .

Nel caso in esame q_r è pari a 0.46 kN/m^2 e v_r è pari a 27.00 m/s .

2.3.3.4 Velocità di riferimento

La velocità base di riferimento v_b è il parametro che caratterizza la ventosità della zona ove sorge la costruzione. Essa è definita come il valore della velocità media del vento su un intervallo di tempo di 10 minuti, a 10 m di altezza dal suolo, su un terreno pianeggiante e omogeneo con lunghezza di rugosità z_0 pari a 0.05 m (II categoria di esposizione), riferito a un periodo di ritorno T_R pari a 50 anni.

Per località poste a quota inferiore di 1500 m sul livello del mare, la velocità base di riferimento può essere assunta calcolata con la seguente espressione:

$$v_b = v_{b,0} \cdot c_a$$

La velocità di riferimento corrispondente si calcola mediante la seguente formula:

$$v_r = v_b \cdot c_r$$

Dove:

$v_{b,0}$: velocità base di riferimento al livello del mare in funzione della zona in cui sorge la costruzione;

c_a : coefficiente di altitudine;

c_r : coefficiente di ritorno funzione del periodo di ritorno di progetto T_R .

Il coefficiente di altitudine c_a viene calcolato con la seguente formula:

$$c_a = 1 \quad \text{per } a_s \leq a_0$$

$$c_a = 1 + k_s \left(\frac{a_s}{a_0} - 1 \right) \quad \text{per } a_0 < a_s \leq 1500 \text{ m}$$

Dove:

a_0, k_s : parametri tabellati in funzione della zona in cui sorge la costruzione;

a_s : altitudine sul livello del mare del sito ove sorge la costruzione.

Nel caso in esame i valori dei parametri utilizzati sono:

Zona	Descrizione	$v_{b,0} [\text{m/s}]$	$a_0 [\text{m}]$	k_s
Zona 3	Toscana, Marche, Umbria, Lazio, Abruzzo, Molise, Puglia, Campania, Basilicata, Calabria (esclusa la provincia di Reggio Calabria)	27	500	0.37

Il coefficiente c_a è pari a 1.00 .

Il coefficiente di ritorno c_r è fornito, in funzione del tempo di ritorno T_R dalla relazione:

$$c_r = 0.75 \sqrt{1 - 0.2 \ln \left[-\ln \left(1 - \frac{1}{T_R} \right) \right]}$$

Il coefficiente c_r è pari a 1.00 .

2.3.3.5 Coefficiente di esposizione

Il coefficiente di esposizione c_e viene calcolato in funzione della categoria di esposizione ove sorge la costruzione. Il suo valore dipende dall'altezza z sul suolo del punto considerato, dalla topografia del terreno. In assenza di analisi specifiche che tengano in conto la direzione di provenienza del vento e l'effettiva scabrezza e topografia del terreno che circonda la costruzione, per altezze sul suolo z non maggiori di 200 m , è possibile utilizzare la seguente formula:

$$c_e = k_r^2 c_t \ln \left(\frac{z}{z_0} \right) \left[7 + c_t \ln \left(\frac{z}{z_0} \right) \right] \quad \text{per } z \geq z_{min}$$

$$c_e = k_r^2 c_t \ln \left(\frac{z_{min}}{z_0} \right) \left[7 + c_t \ln \left(\frac{z_{min}}{z_0} \right) \right] \quad \text{per } z < z_{min}$$

Dove:

k_r : fattore di terreno;
 z_0 : lunghezza di rugosità;
 z_{min} : altezza minima;
 c_t : coefficiente di topografia (pari ad 1)

Nel caso in esame si sono utilizzati i seguenti valori:

Categoria di esposizione	k_r	z_0	z_{min}
Cat. III	0.20	0.10	5

La categoria di esposizione è assegnata in funzione della posizione geografica del sito ove sorge la costruzione e della classe di rugosità del terreno, in base al seguente schema:

ZONE 1,2,3,4,5						
	costa mare	2 km	10 km	30 km	500m	750m
A	--	IV	IV	V	V	V
B	--	III	III	IV	IV	IV
C	--	*	III	III	IV	IV
D	I	II	II	II	III	**
* Categoria II in zona 1,2,3,4 Categoria III in zona 5						
** Categoria III in zona 2,3,4,5 Categoria IV in zona 1						

Nel caso in esame la classe di rugosità è la seguente:

Categoria di rugosità	Descrizione
Classe B	Aree urbane (non di classe A), suburbane, industriali e boschive

2.3.3.6 Coefficienti aerodinamici c_p

In funzione della tipologia di costruzione verranno calcolati uno o più coefficienti adimensionali aerodinamici c_p . Questi coefficienti sono necessari per trasformare la pressione cinetica del vento in azioni aerodinamiche globali sulle costruzioni.

Tali coefficienti, definiti nel loro complesso coefficienti aerodinamici globali, comprendono i coefficienti di pressione (utilizzati per definire la pressione esterna, interna e complessiva), i coefficienti di forza e di momento (utilizzati per definire le forze e i momenti risultanti e per unità di lunghezza) e i coefficienti di attrito (utilizzati per definire le azioni radenti).

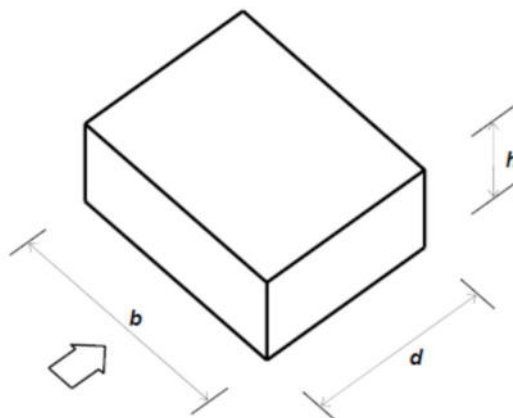
I coefficienti aerodinamici globali possono essere utilizzati in tutti i casi in cui la rappresentazione delle azioni aerodinamiche del vento può essere effettuata in una maniera semplificata, rivolta alla valutazione delle azioni globali su porzioni estese di costruzioni o delle risultanti delle azioni indotte dal vento sugli elementi principali della struttura.

I coefficienti aerodinamici possono assumere valori sia positivi sia negativi, in relazione alla geometria della costruzione. In particolare, per quanto riguarda la pressione esterna, i coefficienti di pressione assumono valori positivi in tutti i punti direttamente investiti dal vento. Assumono invece valori negativi sulle superfici esposte ad un flusso separato, ossia sulle superfici sottovento e laterali.

I valori positivi del coefficiente di pressione sono generalmente compresi nell'intervallo [0,1]. I valori negativi del coefficiente di pressione sono spesso più elevati (in modulo), e possono assumere valori compresi nell'intervallo [-3,0].

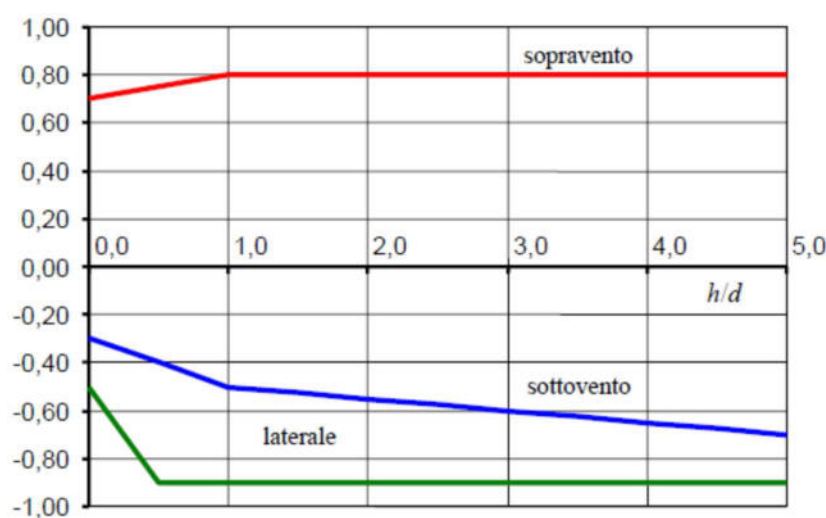
Analogamente, i coefficienti di forza e di momento possono assumere valori sia positivi sia negativi, in funzione della geometria del corpo investito, della direzione di provenienza del vento e della convenzione adottata.

Per costruzioni a pianta rettangolare (con $h/d < 5$) il calcolo dei coefficienti aerodinamici è elaborato considerando il seguente schema:



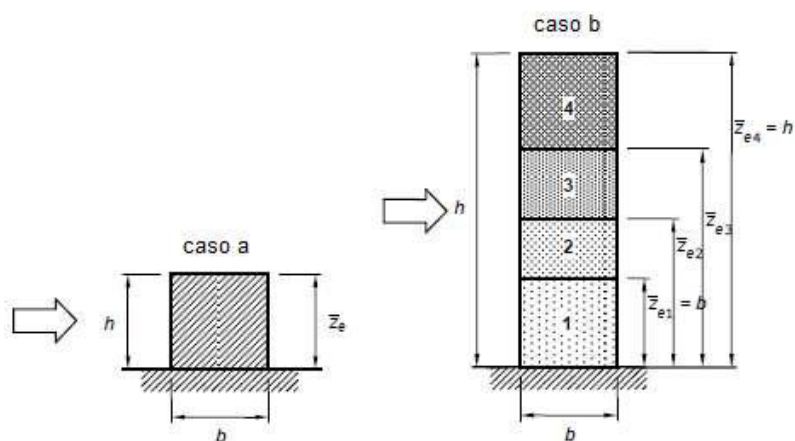
Per le varie facce si utilizzano le seguenti relazioni:

Faccia sopravento	Facce laterali	Faccia sottovento
per $h/d \leq 1 \rightarrow c_p = 0.7 + 0.1 \cdot h/d$ per $h/d > 1 \rightarrow c_p = 0.8$	per $h/d \leq 0.5 \rightarrow c_p = -0.5 - 0.8 \cdot h/d$ per $h/d > 0.5 \rightarrow c_p = -0.9$	per $h/d \leq 1 \rightarrow c_p = -0.3 - 0.2 \cdot h/d$ per $1 < h/d \leq 5 \rightarrow c_p = -0.5 - 0.05 \cdot (h/d - 1)$



Per il calcolo dell'andamento dei coefficienti rispetto all'altezza dell'edificio si possono distinguere due diversi casi:

- edifici bassi ($h \leq b$) l'altezza di riferimento z_e è costante e pari alla quota di sommità dell'edificio (caso a)
- edifici alti ($b < h \leq 5 \cdot d$) si definiscono due zone distinte (costante fino a $z_e = b$ e discretizzata a tratti nella parte superiore) (caso b)



2.3.3.7 Valori delle condizioni di carico da valutare

Si riportano i risultati delle pressioni poste sulle pareti della costruzione alle varie altezze:

Vento (+X) (0)

Risultati - parete sopravento			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	0.73	0.69

Risultati - parete sottovento			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	-0.36	-0.34

Risultati - pareti laterali			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	-0.73	-0.68

Vento (-X) (0)

Risultati - parete sopravento			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	0.73	0.69

Risultati - parete sottovento			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	-0.36	-0.34

Risultati - pareti laterali			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	-0.73	-0.68

Vento (+Y) (0)

Risultati - parete sopravento			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	0.73	0.69

Risultati - parete sottovento			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	-0.36	-0.34

Risultati - pareti laterali			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	-0.73	-0.68

Vento (-Y) (0)

Risultati - parete sopravvento			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	0.73	0.69

Risultati - parete sottovento			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	-0.36	-0.34

Risultati - pareti laterali			
z [m]	C_e	C_{pe}	p [kN/m ²]
9.00	2.07	-0.73	-0.68

2.3.4 Azioni di carico elementari

Con riferimento al §2.5.1 delle NTC 2018, la classificazione delle azioni di carico che agiscono sulla struttura può avvenire secondo tre parametri fondamentali:

Classificazione delle azioni in base al modo di esplicarsi;

Classificazione delle azioni secondo la risposta strutturale;

Classificazione delle azioni secondo la variazione della loro intensità nel tempo.

Nella seguente tabella vengono riportate le azioni di carico per il caso in esame con riferimento a tale classificazione.

Nome Azione	Modo di esplicarsi	Risposta strutturale	Intensità nel tempo
Carichi permanenti strutturali	Dirette	Statiche	Permanente (G1)
Carichi permanenti non strutturali	Dirette	Statiche	Permanente (G2)
Carichi d'esercizio	Dirette	Statiche	Variabili di lunga durata (Q)
Variazione di temperatura	Indirette	Statiche	Variabili di breve durata (Q)
Sisma in direzione X	Dirette	Pseudo statiche	Sismiche (E)
Sisma in direzione Y	Dirette	Pseudo statiche	Sismiche (E)
Sisma in direzione Z	Dirette	Pseudo statiche	Sismiche (E)
Torsione accidentale sisma X	Dirette	Pseudo statiche	Sismiche (E)
Torsione accidentale sisma Y	Dirette	Pseudo statiche	Sismiche (E)
Vento in direzione X	Dirette	Pseudo statiche	Variabili di breve durata (Q)
Vento in direzione Y	Dirette	Pseudo statiche	Variabili di breve durata (Q)
Neve	Dirette	Statiche	Variabili di breve durata (Q)

Per le azioni elementari di tipo variabile, in funzione del periodo di riferimento dell'azione stessa, si fa riferimento a dei valori cosiddetti caratteristici Q_k (valori che corrispondono ad un frattile pari al 95 % della popolazione dei massimi).

Nella definizione delle combinazioni delle azioni che possono agire contemporaneamente, assieme alle azioni permanenti, si ha una concomitanza di azioni variabili Q_{kj} . Per tener conto della probabilità più o meno bassa che queste possano presentarsi contemporaneamente, in funzione della durata percentuale relativa ai livelli di intensità dell'azione variabile stessa, si assume a giro che una di esse sia predominante (e quindi il valore considerato è quello caratteristico) e le altre vengono considerate come secondarie (il cui valore viene ridotto mediante un opportuno coefficiente ψ).

Di seguito per le azioni variabili vengono riportati tali coefficienti di combinazione:

Nome azione	ψ_0	ψ_1	ψ_2
Carichi d'esercizio	0.7	0.5	0.3
Variazione di temperatura	0.6	0.5	0.0
Vento in direzione X	0.6	0.2	0.0
Vento in direzione Y	0.6	0.2	0.0
Neve	0.5	0.2	0.0

dove:

- ψ_0 : coefficiente di combinazione utilizzato per ottenere il **valore raro** (valore di durata breve ma ancora significativa nei riguardi della possibile concomitanza con altre azioni variabili);

- ψ_1 : coefficiente di combinazione utilizzato per ottenere il **valore frequente** (valore corrispondente al frattile 95% della distribuzione temporale dell'intensità e cioè che è superato per una limitata frazione del periodo di riferimento);
- ψ_2 : coefficiente di combinazione utilizzato per ottenere il **valore quasi permanente** (valore relativo alla media della distribuzione temporale dell'intensità).

Le azioni di carico, agenti sulla struttura, sono riportate nella tabella seguente:

Azione	Nome azione	Tipo azione	ψ_0	ψ_1	ψ_2
1	G1	G1	1.00	1.00	1.00
2	G2	G2	1.00	1.00	1.00
3	Q ese	Qk (Cat. A)	0.70	0.50	0.30
4	Q balconi-scale	Qk (Cat. A)	0.70	0.50	0.30
5	Temperatura	Qk (Var. termiche)	0.60	0.50	0.00
6	Copertura	Qk (Cat. H)	0.00	0.00	0.00
7	Sisma X	Sisma X	0.00	0.00	0.00
8	Sisma Y	Sisma Y	0.00	0.00	0.00
9	Sisma Z	Sisma Z	0.00	0.00	0.00
10	Eccentricità accidentale MX	Eccentricità accidentale MX	0.00	0.00	0.00
11	Eccentricità accidentale MY	Eccentricità accidentale MY	0.00	0.00	0.00
12	Vento (+X)	Generico	0.00	0.00	0.00
13	Neve	Generico	0.00	0.00	0.00
14	Vento (+X) (0)	Qk (Vento)	0.60	0.20	0.00
15	Vento (-X) (0)	Qk (Vento)	0.60	0.20	0.00
16	Vento (+Y) (0)	Qk (Vento)	0.60	0.20	0.00
17	Vento (-Y) (0)	Qk (Vento)	0.60	0.20	0.00
18	Neve (0)	Qk (Neve <= 1000 m)	0.50	0.20	0.00

2.3.5 Condizioni di carico

Le possibili condizioni di carico agenti sulla struttura vengono valutate con riferimento alle combinazioni delle azioni elementari riportate al § 2.5.3 dell'NTC 2018 da utilizzare per le verifiche agli stati limite.

Condizioni di carico per stati limite ultimi SLU

Le verifiche agli stati limite ultimi vengono condotte facendo riferimento ai seguenti stati limite:

- lo stato limite di equilibrio come corpo rigido (**EQU**);
- lo stato limite di resistenza della struttura compresi gli elementi di fondazione (**STR**);
- lo stato limite di resistenza del terreno (**GEO**).

Per quanto riguarda lo stato limite di resistenza della struttura (**STR**) in assenza di sisma vengono considerate le seguenti condizioni di carico:

Stato Limite SLU (Struttura)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1.3	1.5	1.5	1.05	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0
CC2	1.3	1.5	1.05	1.5	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0
CC3	1.3	1.5	1.05	1.05	0.9	1.5	0	0	0	0	0	0	0	0	0	0	0	0
CC4	1.3	1.5	1.05	1.05	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0
CC5	1.3	1.5	1.5	1.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC6	1.3	1.5	1.05	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC7	1.3	1.5	1.05	1.05	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0

CC8	1.3	1.5	1.05	1.05	-1.5	0	0	0	0	0	0	0	0	0	0	0	0	0
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Per quanto riguarda gli stati limite relativi alla fondazione (A1 e A2) in assenza di sisma vengono considerate le seguenti condizioni di carico:

Stato Limite SLU (Fondazione A1)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1.3	1.5	1.5	1.05	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0
CC2	1.3	1.5	1.05	1.5	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0
CC3	1.3	1.5	1.05	1.05	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0
CC4	1.3	1.5	1.05	1.05	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0
CC5	1.3	1.5	1.5	1.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC6	1.3	1.5	1.05	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC7	1.3	1.5	1.05	1.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC8	1.3	1.5	1.05	1.05	-1.5	0	0	0	0	0	0	0	0	0	0	0	0	0

Stato Limite SLU (Fondazione A2)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1.3	1.3	0.91	0.78	0	0	0	0	0	0	0	0	0	0	0	0	0
CC2	1	1.3	0.91	1.3	0.78	0	0	0	0	0	0	0	0	0	0	0	0	0
CC3	1	1.3	0.91	0.91	0.78	0	0	0	0	0	0	0	0	0	0	0	0	0
CC4	1	1.3	0.91	0.91	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0
CC5	1	1.3	1.3	0.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC6	1	1.3	0.91	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC7	1	1.3	0.91	0.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC8	1	1.3	0.91	0.91	-1.3	0	0	0	0	0	0	0	0	0	0	0	0	0

Condizioni di carico per stati limite di esercizio SLE

Le condizioni di carico considerate per le verifiche agli stati limite di esercizio vengono divise in funzione dei valori delle azioni relative ai livelli di intensità dell'azione variabile (valori frequenti, rari e quasi permanenti). Di seguito si riportano i le condizioni considerate con i rispettivi coefficienti:

Frequenti

Stato Limite SLE (Frequenti)

	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.5	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC2	1	1	0.3	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	-0.5	0	0	0	0	0	0	0	0	0	0	0	0	0

Rare

Stato Limite SLE (Rare)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	1	0.7	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0
CC2	1	1	0.7	1	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0
CC3	1	1	0.7	0.7	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0
CC4	1	1	0.7	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CC5	1	1	1	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC6	1	1	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CC7	1	1	0.7	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0

Quasi permanenti

Stato Limite SLE (Quasi permanenti)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Condizioni di carico per stati limite sismici

Per ognuno degli stati limite sismici, vengono considerate le seguenti condizioni di carico:

Stato Limite SLV (Struttura)

	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	1	0.3	0	1	0	0	0	0	0	0	0	0
CC2	1	1	0.3	0.3	0	0	1	0.3	0	-1	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	1	-0.3	0	1	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0	0	1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	0	0	-1	0.3	0	1	0	0	0	0	0	0	0	0
CC6	1	1	0.3	0.3	0	0	-1	0.3	0	-1	0	0	0	0	0	0	0	0
CC7	1	1	0.3	0.3	0	0	-1	-0.3	0	1	0	0	0	0	0	0	0	0
CC8	1	1	0.3	0.3	0	0	-1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC9	1	1	0.3	0.3	0	0	0.3	1	0	0	1	0	0	0	0	0	0	0
CC10	1	1	0.3	0.3	0	0	0.3	1	0	0	-1	0	0	0	0	0	0	0
CC11	1	1	0.3	0.3	0	0	-0.3	1	0	0	1	0	0	0	0	0	0	0
CC12	1	1	0.3	0.3	0	0	-0.3	1	0	0	-1	0	0	0	0	0	0	0
CC13	1	1	0.3	0.3	0	0	0.3	-1	0	0	1	0	0	0	0	0	0	0
CC14	1	1	0.3	0.3	0	0	0.3	-1	0	0	-1	0	0	0	0	0	0	0
CC15	1	1	0.3	0.3	0	0	-0.3	-1	0	0	1	0	0	0	0	0	0	0
CC16	1	1	0.3	0.3	0	0	-0.3	-1	0	0	-1	0	0	0	0	0	0	0

Stato Limite SLC (Struttura)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	1	0.3	0	1	0	0	0	0	0	0	0	0
CC2	1	1	0.3	0.3	0	0	1	0.3	0	-1	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	1	-0.3	0	1	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0	0	1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	0	0	-1	0.3	0	1	0	0	0	0	0	0	0	0
CC6	1	1	0.3	0.3	0	0	-1	0.3	0	-1	0	0	0	0	0	0	0	0
CC7	1	1	0.3	0.3	0	0	-1	-0.3	0	1	0	0	0	0	0	0	0	0
CC8	1	1	0.3	0.3	0	0	-1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC9	1	1	0.3	0.3	0	0	0.3	1	0	0	1	0	0	0	0	0	0	0
CC10	1	1	0.3	0.3	0	0	0.3	1	0	0	-1	0	0	0	0	0	0	0
CC11	1	1	0.3	0.3	0	0	-0.3	1	0	0	1	0	0	0	0	0	0	0
CC12	1	1	0.3	0.3	0	0	-0.3	1	0	0	-1	0	0	0	0	0	0	0
CC13	1	1	0.3	0.3	0	0	0.3	-1	0	0	1	0	0	0	0	0	0	0
CC14	1	1	0.3	0.3	0	0	0.3	-1	0	0	-1	0	0	0	0	0	0	0
CC15	1	1	0.3	0.3	0	0	-0.3	-1	0	0	1	0	0	0	0	0	0	0
CC16	1	1	0.3	0.3	0	0	-0.3	-1	0	0	-1	0	0	0	0	0	0	0

Stato Limite SLD (Struttura)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	1	0.3	0	1	0	0	0	0	0	0	0	0

CC2	1	1	0.3	0.3	0	0	1	0.3	0	-1	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	1	-0.3	0	1	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0	0	1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	0	0	-1	0.3	0	1	0	0	0	0	0	0	0	0
CC6	1	1	0.3	0.3	0	0	-1	0.3	0	-1	0	0	0	0	0	0	0	0
CC7	1	1	0.3	0.3	0	0	-1	-0.3	0	1	0	0	0	0	0	0	0	0
CC8	1	1	0.3	0.3	0	0	-1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC9	1	1	0.3	0.3	0	0	0.3	1	0	0	1	0	0	0	0	0	0	0
CC10	1	1	0.3	0.3	0	0	0.3	1	0	0	-1	0	0	0	0	0	0	0
CC11	1	1	0.3	0.3	0	0	-0.3	1	0	0	1	0	0	0	0	0	0	0
CC12	1	1	0.3	0.3	0	0	-0.3	1	0	0	-1	0	0	0	0	0	0	0
CC13	1	1	0.3	0.3	0	0	0.3	-1	0	0	1	0	0	0	0	0	0	0
CC14	1	1	0.3	0.3	0	0	0.3	-1	0	0	-1	0	0	0	0	0	0	0
CC15	1	1	0.3	0.3	0	0	-0.3	-1	0	0	1	0	0	0	0	0	0	0
CC16	1	1	0.3	0.3	0	0	-0.3	-1	0	0	-1	0	0	0	0	0	0	0

Stato Limite SLO (Struttura)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	1	0.3	0	1	0	0	0	0	0	0	0	0
CC2	1	1	0.3	0.3	0	0	1	0.3	0	-1	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	1	-0.3	0	1	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0	0	1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	0	0	-1	0.3	0	1	0	0	0	0	0	0	0	0
CC6	1	1	0.3	0.3	0	0	-1	0.3	0	-1	0	0	0	0	0	0	0	0
CC7	1	1	0.3	0.3	0	0	-1	-0.3	0	1	0	0	0	0	0	0	0	0
CC8	1	1	0.3	0.3	0	0	-1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC9	1	1	0.3	0.3	0	0	0.3	1	0	0	1	0	0	0	0	0	0	0
CC10	1	1	0.3	0.3	0	0	0.3	1	0	0	-1	0	0	0	0	0	0	0
CC11	1	1	0.3	0.3	0	0	-0.3	1	0	0	1	0	0	0	0	0	0	0
CC12	1	1	0.3	0.3	0	0	-0.3	1	0	0	-1	0	0	0	0	0	0	0
CC13	1	1	0.3	0.3	0	0	0.3	-1	0	0	1	0	0	0	0	0	0	0
CC14	1	1	0.3	0.3	0	0	0.3	-1	0	0	-1	0	0	0	0	0	0	0
CC15	1	1	0.3	0.3	0	0	-0.3	-1	0	0	1	0	0	0	0	0	0	0
CC16	1	1	0.3	0.3	0	0	-0.3	-1	0	0	-1	0	0	0	0	0	0	0

Stato Limite SLV (Fondazione A1)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	1	0.3	0	1	0	0	0	0	0	0	0	0
CC2	1	1	0.3	0.3	0	0	1	0.3	0	-1	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	1	-0.3	0	1	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0	0	1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	0	0	-1	0.3	0	1	0	0	0	0	0	0	0	0
CC6	1	1	0.3	0.3	0	0	-1	0.3	0	-1	0	0	0	0	0	0	0	0
CC7	1	1	0.3	0.3	0	0	-1	-0.3	0	1	0	0	0	0	0	0	0	0
CC8	1	1	0.3	0.3	0	0	-1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC9	1	1	0.3	0.3	0	0	0.3	1	0	0	1	0	0	0	0	0	0	0
CC10	1	1	0.3	0.3	0	0	0.3	1	0	0	-1	0	0	0	0	0	0	0
CC11	1	1	0.3	0.3	0	0	-0.3	1	0	0	1	0	0	0	0	0	0	0
CC12	1	1	0.3	0.3	0	0	-0.3	1	0	0	-1	0	0	0	0	0	0	0

CC13	1	1	0.3	0.3	0	0	0.3	-1	0	0	1	0	0	0	0	0	0	0
CC14	1	1	0.3	0.3	0	0	0.3	-1	0	0	-1	0	0	0	0	0	0	0
CC15	1	1	0.3	0.3	0	0	-0.3	-1	0	0	1	0	0	0	0	0	0	0
CC16	1	1	0.3	0.3	0	0	-0.3	-1	0	0	-1	0	0	0	0	0	0	0

Stato Limite SLC (Fondazione A1)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	1	0.3	0	1	0	0	0	0	0	0	0	0
CC2	1	1	0.3	0.3	0	0	1	0.3	0	-1	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	1	-0.3	0	1	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0	0	1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	0	0	-1	0.3	0	1	0	0	0	0	0	0	0	0
CC6	1	1	0.3	0.3	0	0	-1	0.3	0	-1	0	0	0	0	0	0	0	0
CC7	1	1	0.3	0.3	0	0	-1	-0.3	0	1	0	0	0	0	0	0	0	0
CC8	1	1	0.3	0.3	0	0	-1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC9	1	1	0.3	0.3	0	0	0.3	1	0	0	1	0	0	0	0	0	0	0
CC10	1	1	0.3	0.3	0	0	0.3	1	0	0	-1	0	0	0	0	0	0	0
CC11	1	1	0.3	0.3	0	0	-0.3	1	0	0	1	0	0	0	0	0	0	0
CC12	1	1	0.3	0.3	0	0	-0.3	1	0	0	-1	0	0	0	0	0	0	0
CC13	1	1	0.3	0.3	0	0	0.3	-1	0	0	1	0	0	0	0	0	0	0
CC14	1	1	0.3	0.3	0	0	0.3	-1	0	0	-1	0	0	0	0	0	0	0
CC15	1	1	0.3	0.3	0	0	-0.3	-1	0	0	1	0	0	0	0	0	0	0
CC16	1	1	0.3	0.3	0	0	-0.3	-1	0	0	-1	0	0	0	0	0	0	0

Stato Limite SLV (Fondazione A2)																		
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	1	0.3	0	1	0	0	0	0	0	0	0	0
CC2	1	1	0.3	0.3	0	0	1	0.3	0	-1	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	1	-0.3	0	1	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0	0	1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	0	0	-1	0.3	0	1	0	0	0	0	0	0	0	0
CC6	1	1	0.3	0.3	0	0	-1	0.3	0	-1	0	0	0	0	0	0	0	0
CC7	1	1	0.3	0.3	0	0	-1	-0.3	0	1	0	0	0	0	0	0	0	0
CC8	1	1	0.3	0.3	0	0	-1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC9	1	1	0.3	0.3	0	0	0.3	1	0	0	1	0	0	0	0	0	0	0
CC10	1	1	0.3	0.3	0	0	0.3	1	0	0	-1	0	0	0	0	0	0	0
CC11	1	1	0.3	0.3	0	0	-0.3	1	0	0	1	0	0	0	0	0	0	0
CC12	1	1	0.3	0.3	0	0	-0.3	1	0	0	-1	0	0	0	0	0	0	0
CC13	1	1	0.3	0.3	0	0	0.3	-1	0	0	1	0	0	0	0	0	0	0
CC14	1	1	0.3	0.3	0	0	0.3	-1	0	0	-1	0	0	0	0	0	0	0
CC15	1	1	0.3	0.3	0	0	-0.3	-1	0	0	1	0	0	0	0	0	0	0
CC16	1	1	0.3	0.3	0	0	-0.3	-1	0	0	-1	0	0	0	0	0	0	0

Stato Limite SLC (Fondazione A2)																		
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	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma X	Sisma Y	Sisma Z	Eccentricità accidentale MX	Eccentricità accidentale MY	Vento (+X)	Neve	Vento (+X) (0)	Vento (-X) (0)	Vento (+Y) (0)	Vento (-Y) (0)	Neve (0)
CC1	1	1	0.3	0.3	0	0	1	0.3	0	1	0	0	0	0	0	0	0	0
CC2	1	1	0.3	0.3	0	0	1	0.3	0	-1	0	0	0	0	0	0	0	0
CC3	1	1	0.3	0.3	0	0	1	-0.3	0	1	0	0	0	0	0	0	0	0
CC4	1	1	0.3	0.3	0	0	1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC5	1	1	0.3	0.3	0	0	-1	0.3	0	1	0	0	0	0	0	0	0	0
CC6	1	1	0.3	0.3	0	0	-1	0.3	0	-1	0	0	0	0	0	0	0	0
CC7	1	1	0.3	0.3	0	0	-1	-0.3	0	1	0	0	0	0	0	0	0	0
CC8	1	1	0.3	0.3	0	0	-1	-0.3	0	-1	0	0	0	0	0	0	0	0
CC9	1	1	0.3	0.3	0	0	0.3	1	0	0	1	0	0	0	0	0	0	0
CC10	1	1	0.3	0.3	0	0	0.3	1	0	0	-1	0	0	0	0	0	0	0
CC11	1	1	0.3	0.3	0	0	-0.3	1	0	0	1	0	0	0	0	0	0	0
CC12	1	1	0.3	0.3	0	0	-0.3	1	0	0	-1	0	0	0	0	0	0	0
CC13	1	1	0.3	0.3	0	0	0.3	-1	0	0	1	0	0	0	0	0	0	0
CC14	1	1	0.3	0.3	0	0	0.3	-1	0	0	-1	0	0	0	0	0	0	0
CC15	1	1	0.3	0.3	0	0	-0.3	-1	0	0	1	0	0	0	0	0	0	0
CC16	1	1	0.3	0.3	0	0	-0.3	-1	0	0	-1	0	0	0	0	0	0	0

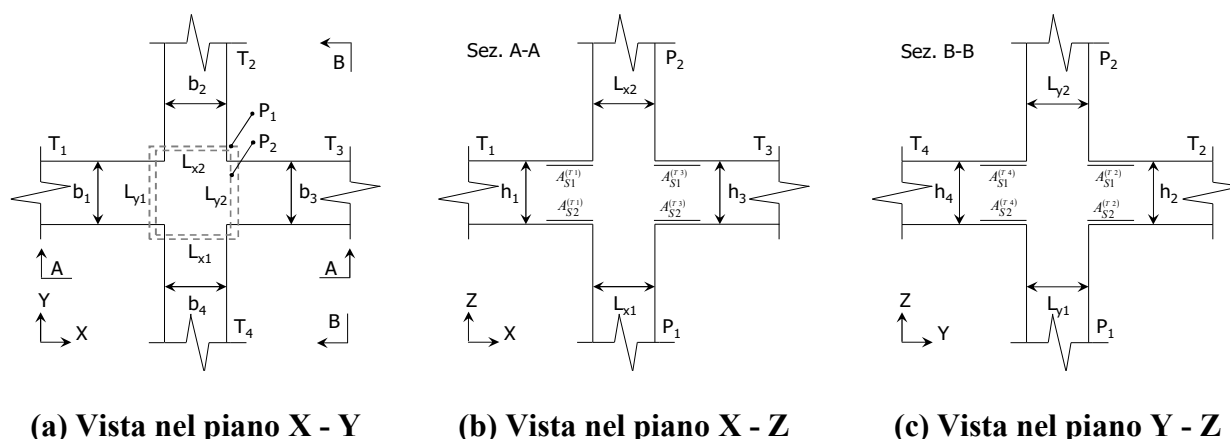
Il calcolo delle forze di inerzia viene effettuato considerando i seguenti pesi sismici (§2.5.3 NTC 2018):

Azione da peso sismico	Peso sismico (ψ_2)
G1	1.00
G2	1.00
Q ese	0.30
Q balconi-scale	0.30
Copertura	0.00
Vento (+X) (0)	0.00
Vento (-X) (0)	0.00
Vento (+Y) (0)	0.00
Vento (-Y) (0)	0.00
Neve (0)	0.00

2.4 Procedura di verifica degli elementi

Il tipo di calcolo eseguito è "**Adeguamento struttura esistente**".

Nel caso in esame la progettazione degli elementi, sono stati esclusi dalla verifica i nodi, ai sensi del § C7.4.4.3.1 della Circolare 2019 del D.M. 2018, in quanto la struttura è stata analizzata come **NON DISSIPATIVA**.



Le NTC2018 introducono una novità rispetto alle precedenti NTC2008 in tema di verifica di resistenza dei nodi. Il nodo trave-pilastro è definito come quella parte del pilastro che si sovrappone alle travi in esso concorrenti. La verifica di resistenza deve assicurare che il nodo trave-pilastro non collassi prima delle zone dissipative delle travi e dei pilastri ad esso adiacenti.

Le NTC2018 prescrivono di eseguire la verifica di resistenza dei nodi delle strutture in calcestruzzo armato sia per le strutture in classe di duttilità **alta** (CD''A'') che **media** (CD''B''). Tali verifiche invece non vanno eseguite nel caso di strutture **non dissipative** (*par. C.7.4.4.3.1 Circ. 2019*).

2.4.1 Elementi in C.A.

Le singole verifiche vengono descritte qui di seguito:

Flessione composta deviata

Le sollecitazioni che vengono considerate in tale verifica sono: Sforzo Normale, Momento Flettente X-Z, Momento Flettente X-Y.

La verifica di resistenza è soddisfatta se la sollecitazione determinata dalla condizione considerata cade all'interno del dominio di sicurezza determinato, attraverso la conoscenza:

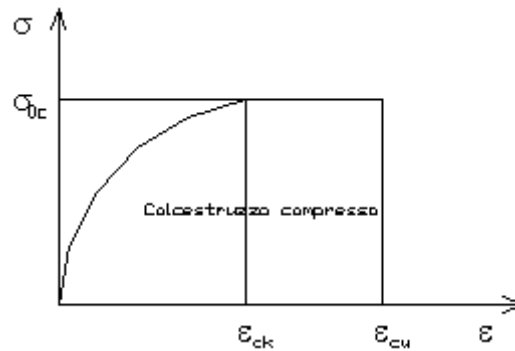
- del comportamento meccanico della sezione in esame;

- delle caratteristiche dei materiali di cui è composta;
- dei coefficienti di sicurezza forniti dalla normativa seguita.

Il calcolo è condotto nelle ipotesi che:

1. Le sezioni rimangano piane fino a rottura;
2. Ci sia perfetta aderenza fra acciaio e calcestruzzo;
3. Il calcestruzzo non abbia alcuna capacità di resistenza a trazione.

Il diagramma tensioni-deformazioni assunto per il calcestruzzo è di tipo parabola-rettangolo come indicato nella seguente figura:



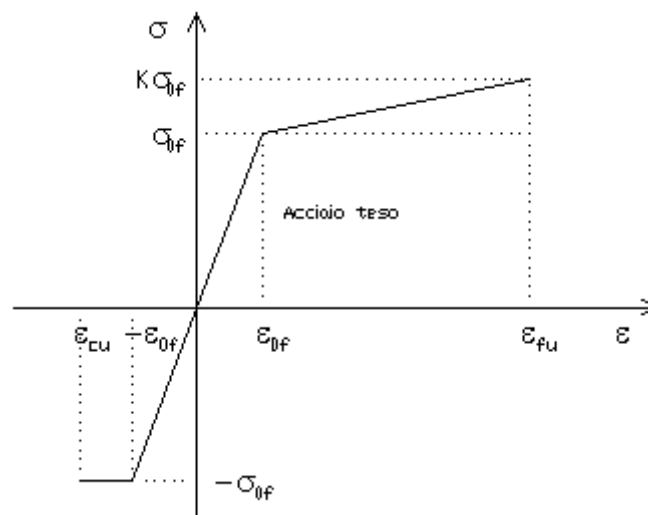
dove: ϵ_{ck} = deformazione caratteristica;
 ϵ_{cu} = deformazione ultima del calcestruzzo;
 σ_{0c} = resistenza di calcolo del calcestruzzo;

Le equazioni che descrivono il diagramma sono:

$$\epsilon < \epsilon_{ck} : \sigma(\epsilon) = 1000 \sigma_{0c} \epsilon (1 - 250 \epsilon)$$

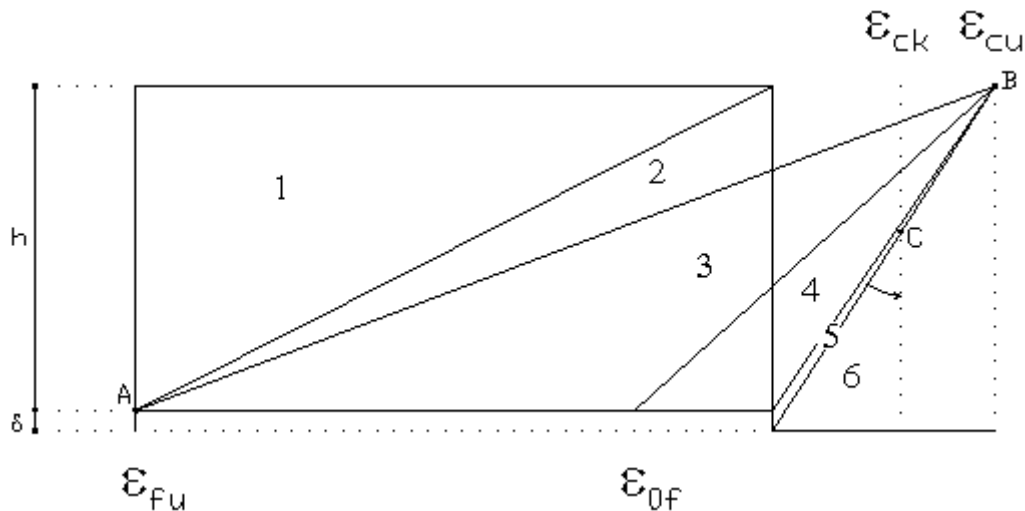
$$\epsilon_{ck} < \epsilon < \epsilon_{cu} : \sigma(\epsilon) = \sigma_{0c}$$

Il diagramma tensioni-deformazioni assunto per l'acciaio è indicato nella seguente figura:



dove: $\epsilon_{0f} = \sigma_{0f}/E$
 E : Modulo di elasticità dell'acciaio;
 σ_{0f} : resistenza di calcolo dell'acciaio;
 k : rapporto di sovrarresistenza (se è pari ad 1 il comportamento è bilineare elastico-perfettamente plastico);
 f_{yk} : Resistenza caratteristica dell'acciaio
 γ_m : coefficiente di sicurezza dell'acciaio;
 ϵ_{fu} : deformazione ultima dell'acciaio;
 ϵ_{cu} : deformazione ultima del calcestruzzo;

Le limitazioni delle deformazioni unitarie per il conglomerato e per l'acciaio conducono a definire sei diversi campi (o regioni) nei quali potrà trovarsi la retta di deformazione specifica. Tali campi sono descritti nel seguente modo:



Campo 1 : è caratterizzato dall'allungamento massimo tollerabile per l'acciaio pari a ϵ_{fu} . Il diagramma delle deformazioni specifiche appartiene ad un fascio di rette passanti per il punto (A) mentre la distanza dall'asse neutro potrà variare da $-\infty$ a 0. È il caso di trazione semplice o con piccola eccentricità; la sezione risulta interamente tesa. La crisi si ha per cedimento dell'acciaio teso.

Campo 2 : è caratterizzato dall'allungamento massimo tollerabile per l'acciaio pari a ϵ_{fu} e dalla rotazione del diagramma attorno al punto (A). La deformazione specifica del calcestruzzo varia da 0 al valore massimo del calcestruzzo compresso (ϵ_{cu}) mentre la distanza dell'asse neutro dal lembo compresso può variare da 0 a $0.259h$. La sezione risulterà in parte tesa ed in parte compressa e quindi sarà sollecitata a flessione semplice o composta.

Campo 3 : è caratterizzato dall'accorciamento massimo del conglomerato pari a ϵ_{cu} . Le rette di deformazione appartengono ad un fascio passante per (B). La massima tensione del calcestruzzo in questa regione è pari a quella di rottura di calcolo mentre l'armatura è ancora deformata in campo plastico. La sezione risulterà in parte tesa ed in parte compressa e quindi sarà sollecitata a flessione semplice o composta.

Campo 4 : è caratterizzato dall'accorciamento massimo del conglomerato pari a ϵ_{cu} . Le rette di deformazione appartengono ad un fascio passante per (B). La massima tensione del calcestruzzo in questa regione è pari a quella di rottura di calcolo mentre l'armatura è sollecitata con tensioni inferiori allo snervamento e può risultare anche scarica. La sezione risulterà in parte tesa ed in parte compressa e quindi sarà sollecitata a flessione semplice o composta.

Campo 5 : è caratterizzato dall'accorciamento massimo del conglomerato pari a ϵ_{cu} . Le rette di deformazione appartengono ad un fascio passante per (B) mentre la distanza dell'asse neutro varia da h ad $h + d$. L'armatura in tale regione è sollecitata a compressione e pertanto tutta la sezione è compressa; è questo il caso della flessione composta.

Campo 6 : è caratterizzato dall'accorciamento massimo del conglomerato compresso che varia fra ϵ_{cu} e ϵ_{cu} . Le rette di deformazione specifica appartengono ad un fascio passante per (C) e la distanza dell'asse neutro varia fra 0 e $-\infty$. La distanza di (C) dal lembo superiore vale $3h/7$. La sezione risulta sollecitata a compressione semplice o composta.

Taglio

Il calcolo del taglio viene eseguito secondo il metodo di Ritter-Morsch. Per gli elementi in cui è richiesta la verifica a taglio, deve risultare:

$$V_{Sd} \leq \min\{V_{Rsd}, V_{Rcd}\}$$

$$V_{Rsd} = 0.9 d (A_{sw}/s) f_{yd} (\operatorname{ctg} \alpha + \operatorname{ctg} \theta) \sin \alpha$$

$$V_{Rcd} = 0.9 d b_w \alpha_c f'_{cd} (\operatorname{ctg} \alpha + \operatorname{ctg} \theta)/(1 + \operatorname{ctg}^2 \theta)$$

dove:

- V_{Sd} : taglio sollecitante il calcolo;
- d : altezza utile della sezione;
- A_{sw} : area dell'armatura trasversale;
- s : passo dell'armatura trasversale;
- f_{yd} : resistenza a snervamento dell'acciaio;
- b_w : larghezza minima della sezione lungo l'altezza efficace;
- α_c : coefficiente di compressione della sezione;
- f'_{cd} : resistenza a compressione ridotta del calcestruzzo;
- α : angolo di inclinazione delle armature a taglio;
- θ : angolo di inclinazione delle bielle compresse.

Il contributo delle armature a taglio è somma del contributo delle staffe e degli eventuali sagomati. In ogni caso l'aliquota massima che può essere affidata ai sagomati è il 50% dello sforzo di taglio massimo.

Taglio-Punzonamento

Il punzonamento può essere determinato da un carico concentrato o da una reazione agente su area relativamente piccola, denominata area caricata di una soletta o di una fondazione.

La resistenza a punzonamento viene verificata lungo la faccia del pilastro (o impronta di carico) e lungo il perimetro di verifica u_1 . Se è richiesta un'armatura a taglio, la stessa verrà estesa fino ad un ulteriore perimetro di verifica u_{out} .

Il perimetro di verifica di base u_1 , viene collocato a una distanza di $2d$ dall'area caricata definito, per aree poligonali, come quello di minima lunghezza, dove d è l'altezza utile della sezione di verifica.

Lungo il perimetro del pilastro, o il perimetro dell'area caricata, non deve essere superata la massima tensione di taglio-punzonamento:

$$V_{Ed} \leq V_{Rd,max}$$

dove:

$$V_{Rd,max} = 0.5 b_w d v f_{cd}$$

$$v = 0.6 (1 - f_{ck}/250)$$

Nel caso in cui V_{Ed} supera il valore $V_{Rd,c}$ per la sezione di verifica considerata, verrà disposta un'apposita armatura per il taglio-punzonamento:

$$V_{Rd,c} = C_{Rd,c} k (100 \rho_l f_{ck})^{1/3} + k_1 \sigma_{cp} \geq (v_{min} + k_1 \sigma_{cp})$$

dove:

$$C_{Rd,c} = 0.18/\gamma_c$$

$$k = 1 + \sqrt{200/d} \leq 2 \text{ d in mm}$$

$$\sigma_{cp} = (\sigma_{cy} + \sigma_{cz})/2 \text{ tensioni normali agenti}$$

$$k_1 = 0.1$$

$$v_{min} = 0.035 k^{3/2} f_{ck}^{1/2}$$

Dove è richiesta l'armatura a taglio, il valore resistente è il seguente:

$$V_{Rd,cs} = 0.75 V_{Rd,c} + 1.5 (d/s_r) A_{sw} f_{ywd} (1/(u_1 d))$$

dove:

- A_{sw} è l'area di armatura a taglio-punzonamento situata su di un perimetro interno al pilastro
- s_r è il passo radiale dei perimetri dell'armatura a taglio-punzonamento

Taglio (Elementi senza armature trasversali resistenti a taglio)

Per gli elementi senza armature trasversali, in cui è richiesta la verifica a taglio, deve risultare:

$$V_{Rd} \geq V_{Ed}$$

$$V_{Rd} = \max\left\{ \left[0.18 k (100 \rho_l f_{ck})^{1/3} / \gamma_c + 0.15 \sigma_{cp} \right] b_w d ; (v_{min} + 0.15 \sigma_{cp}) b_w d \right\}$$

dove:

$$k = 1 + (200/d)^{1/2} \leq 2;$$

$$v_{min} = 0.035 k^{3/2} f_{ck}^{1/2};$$

f_{ck} : resistenza caratteristica a compressione del calcestruzzo;

d : altezza utile della sezione;

$\rho_l = A_{sl}/(b_w d)$: rapporto geometrico di armatura longitudinale tesa (≤ 0.02);

$\sigma_{cp} = N_{Ed}/A_c$: tensione media di compressione nella sezione ($\leq 0.2 f_{cd}$);

b_w : larghezza minima della sezione lungo l'altezza efficace.

In corrispondenza degli appoggi, le armature longitudinali sono state progettate per assorbire uno sforzo pari al taglio gravante sull'appoggio stesso.

Stabilità

La verifica di instabilità degli elementi snelli in c.a. viene condotta attraverso un'analisi del secondo ordine che tiene in conto degli effetti flessionali dell'azione assiale sulla configurazione deformata degli elementi stessi.

Si sono assunti legami fra le azioni interne e le deformazioni che mettono in conto il comportamento non lineare dei materiali e si è trascurato il contributo del calcestruzzo teso. È stato utilizzato il "criterio della snellezza per elementi isolati" descritto nell'Eurocodice 2.

Il valore limite della snellezza per ogni colonna è stato assunto pari a:

$$\lambda_{lim} = \frac{20 A B C}{\sqrt{n}}$$

dove:

$$n = N_{ed}/(A_c f_{cd})$$

$$A = 0.7$$

$$B = 1.1$$

$$C = 0.7$$

La snellezza della colonna da confrontare con λ_{lim} è pari a:

$$\lambda = \lambda_0/i$$

λ_0 è la lunghezza libera d'inflessione definita in base ai vincoli di estremità (o calcolata con metodi numerici) ed i è il raggio d'inerzia della sezione in calcestruzzo non fessurato.

Nel caso in cui sia necessaria l'amplificazione dei momenti flettenti, la stessa è stata effettuata mediante il "metodo della stima della curvatura nominale". Il momento di progetto viene calcolato con la seguente relazione:

$$M_{Ed} = M_{0Ed} + M_2$$

Il valore M_{0Ed} , rappresenta il momento del primo ordine equivalente di estremità calcolato come:

$$M_{0ed} = 0.6 M_{02} + 0.4 M_{01} \geq 0.4 M_{02}$$

M_{01} e M_{02} rappresentano i momenti di estremità del primo ordine.

Il momento nominale del secondo ordine M_2 viene calcolato mediante la seguente relazione:

$$M_2 = N_{Ed} e_2$$

Il parametro e_2 è l'inflessione calcolata come:

$$e_2 = \left(\frac{1}{r}\right) \frac{l_0^2}{c}$$

Il valore c può essere posto pari a 10.

La curvatura $1/r$ viene calcolata mediante:

$$\frac{1}{r} = K_r K_\varphi \frac{1}{r_0}$$

Dove:

$$K_r = (1 + \omega - n)/(1 + \omega - 0.4) \leq 1$$

$$K_\varphi = 1 + \beta \varphi_{ef} \geq 1$$

ω : percentuale meccanica di armatura totale

n : forza assiale adimensionalizzata

$$\beta = 0.35 + f_{ck}/200 - \lambda/150$$

Con riferimento al punto 4.1.2.3.9.3 delle NTC 2018 in aggiunta al momento sollecitante esterno viene sommata un'aliquota dovuta ad un'eccentricità dello sforzo normale pari a 1/300 dell'altezza della colonna (difetto di rettilineità).

Stato tensionale

Tale verifica rientra nell'ambito della verifica di esercizio. Il calcolo delle tensioni si ottiene sfruttando le ipotesi tradizionali per il calcolo del cemento armato ordinario, e cioè:

1. assunzione dei materiali elastico lineari;
2. conservazione delle sezioni piane al crescere dei carichi;
3. perfetta aderenza tra acciaio e calcestruzzo;
4. resistenza nulla a trazione del calcestruzzo;

Inoltre può essere stabilito un coefficiente di omogeneizzazione diverso dal valore ordinario.

Le tensioni di esercizio si possono calcolare considerando le combinazioni di carico caratteristica, frequente e quasi permanente.

La verifica consiste nel confrontare le tensioni di calcolo con quelle limite dei materiali.

Fessurazione

Il calcolo delle ampiezze delle fessure si effettua considerando anche la parte di calcestruzzo reagente a trazione utilizzando la seguente espressione

$$W_k = s_{r,max} (\varepsilon_{sm} - \varepsilon_{cm})$$

W_k : ampiezza di calcolo delle fessure;

$s_{r,max}$: distanza massima tra le fessure;

ε_{sm} : deformazione media dell'armatura che tiene conto, nella combinazione di carico considerata, anche degli effetti "tension stiffening";

ε_{cm} : deformazione media del calcestruzzo.

La quantità $\varepsilon_{sm} - \varepsilon_{cm}$ si ottiene dalla seguente espressione:

$$\varepsilon_{sm} - \varepsilon_{cm} = \frac{\sigma_s - 0.4 \frac{f_{ctm}}{\rho_{eff}} (1 + \alpha_e \rho_{eff})}{E_s} \geq 0.6 \frac{\sigma_s}{E_s}$$

dove:

σ_s : tensione dell'acciaio teso calcolata a sezione fessurata;
 E_s : modulo elastico dell'acciaio;
 σ_s : tensione dell'acciaio teso calcolata nella sezione per una condizione di carico che induce alla prima fessurazione;
 α_s : rapporto E_s/E_{cm} ;
 ρ_{eff} : percentuale di armatura efficace.

La quantità s_{rm} si ottiene dalla seguente espressione:

$$s_{rm} = k_3 c + k_1 k_2 k_4 (\phi / \rho_{eff})$$

dove:

c : ricoprimento delle armature;
 k_1 : coefficiente di aderenza delle barre. Assume valore 1.6 per barre lisce e 0.8 per barre ad aderenza migliorata;
 k_2 : coefficiente che tiene conto della forma del diagramma delle deformazioni. Assume valore 0.5 per flessione e 1 per trazione pura;
 k_3 : coefficiente pari a 3.4;
 k_4 : coefficiente pari a 0.425;
 ϕ : diametro delle barre in mm. Se si utilizzano più diametri si utilizza il diametro medio.

La fessurazione causata dalle azioni tangenziali si considera contenuta in limiti accettabili se si adotta un passo delle staffe. Tale verifica non è necessaria in elementi in cui non è richiesta l'armatura a taglio.

Verifiche a deformabilità

Per il calcolo della deformabilità di elementi inflessi si utilizza il metodo che pesa le curvature nelle due situazioni caratteristiche degli elementi in c.a. ("I" sezione integra; "II" sezione fessurata). A tale riguardo la curvatura in una generica sezione può essere valutata con la seguente relazione:

$$\theta = (1 - \zeta) \theta_I + \zeta \theta_{II}$$

dove ζ rappresenta l'effetto irrigidente del calcestruzzo tra due fessure consecutive (tension stiffening):

$$\zeta = 1 - c (M_{cr}/M)^2$$

dove:

c : pari a 1 per carichi permanenti;
 M_{cr} : momento di prima fessurazione;
 M : momento sollecitante.

Per calcolare la freccia di un elemento, si divide in "n" conci uguali e si calcola la curvatura di ogni concio riferita alla coordinata x_i . La freccia relativa alla sezione x_j è pari a:

$$\delta_j = \varphi_A x_j - \sum (x_j - x_i) \theta_i \Delta x$$

dove:

φ_A : rotazione dell'estremo iniziale dell'elemento;
 l : lunghezza dell'elemento;
 Δx : lunghezza del concio;
 θ_i : curvatura relativa al concio

Verifica dei nodi (edifici di nuova costruzione)

I nodi strutturali vengono verificati nei riguardi di:

- Compressione, mediante la seguente relazione:

$$V_{jbd} \leq \eta f_{cd} b_j h_{jc} \sqrt{1 - v_d/\eta}$$

dove:

V_{jbd} : forza di taglio agente nel nodo

$\eta = \alpha_j (1 - f_{ck}/250)$

α_j : coefficiente pari a 0.6 per nodi interni e 0.48 per nodi esterni

b_j : larghezza del nodo

h_{jc} : distanza tra le armature più esterne del pilastro

v_d : forza assiale adimensionalizzata

f_{cd} : resistenza di calcolo a compressione del calcestruzzo

- Trazione mediante le seguenti relazioni alternative:

$A_{sh} f_{ywd} \geq \gamma_{Rd} (A_{s1} + A_{s2}) f_{yd} (1 - 0.8 v_d)$ per nodi interni

$A_{sh} f_{ywd} \geq \gamma_{Rd} A_{s2} f_{yd} (1 - 0.8 v_d)$ per nodi esterni

dove:

A_{sh} : area totale nel nodo

f_{ywd}, f_{yd} : resistenza caratteristica a snervamento delle staffe e delle armature longitudinali

γ_{Rd} : 1.2

A_{s1}, A_{s2} : area armature superiore ed inferiore nel nodo.

Prescrizioni aggiuntive (Elementi di fondazione)

Il dimensionamento delle strutture di fondazione è stato eseguito assumendo come azioni in fondazione le resistenze degli elementi strutturali soprastanti secondo le indicazioni del punto 7.2.5. In particolare viene applicato un fattore di sovrarresistenza rispetto alle azioni resistenti trasferite dagli elementi soprastanti. In ogni caso i valori utilizzati non sono maggiori di quelle derivanti da una analisi elastica della struttura in elevazione eseguita con un fattore di comportamento q pari a 1,5.

Operazioni per il controllo della duttilità (DUT) richiesta dagli elementi in c.a.

Nel caso di comportamento strutturale dissipativo il comportamento sismico della struttura è largamente dipendente dal comportamento delle sue zone dissipative, esse devono formarsi ove previsto e mantenere, in presenza di azioni cicliche, la capacità di trasmettere le necessarie sollecitazioni e di dissipare energia, garantendo la capacità in duttilità relativa alla classe di duttilità scelta.

I dettagli costruttivi delle zone dissipative e delle connessioni tra queste zone e le restanti parti della struttura, nonché dei diversi elementi strutturali tra loro, sono fondamentali per un corretto comportamento sismico e devono essere esaurientemente specificati negli elaborati di progetto.

Nel caso di analisi lineare la verifica di duttilità si può ritenere soddisfatta, rispettando per tutti gli elementi strutturali, sia primari sia secondari, le regole specifiche per i dettagli costruttivi precisate dalle norme per le diverse tipologie costruttive.

Inoltre, per le sezioni allo spicco dalle fondazioni degli elementi strutturali verticali primari la verifica di duttilità, indipendentemente dai particolari costruttivi adottati, è stata effettuata la verifica in duttilità accertando che la capacità in duttilità della costruzione sia almeno pari a 1.2 volte la domanda in duttilità locale, valutata in corrispondenza dello SLV.

3.1 Elenco e caratteristiche dei materiali

Nell'ambito del progetto si è fatto uso dei seguenti materiali divisi per categoria di appartenenza:

3.1.1 Calcestruzzo

Nome	: Nome del materiale;
Classe	: Classe del calcestruzzo in base alla classificazione da normativa (fck/Rck);
fck	: Resistenza caratteristica cilindrica a compressione;
Rck	: Resistenza caratteristica cubica a compressione;
v	: Modulo di Poisson;
ps	: Peso per unità di volume;
αT	: Coefficiente di dilatazione termica;
Ec	: Modulo elastico del materiale;
FC	: Fattore di confidenza (solo per costruzioni esistenti);
$\gamma_{m,c}$: Coefficiente parziale per le resistenze;
Ect/Ec	: Rapporto tra i moduli elastici a trazione e compressione;
fcm	: Resistenza media riscontrata (solo per costruzioni esistenti);
fcd SLU	: Resistenza di calcolo a compressione per gli SLU;
fctd SLU	: Resistenza di calcolo a trazione per gli SLU;
fcd SLD	: Resistenza di calcolo a compressione per gli SLD;
fctd SLD	: Resistenza di calcolo a trazione per gli SLD;
fctk,0.05	: Resistenza caratteristica a trazione;
fctm	: Resistenza media a trazione;
ϵ_{c2}	: Deformazione al raggiungimento della massima tensione di compressione;
ϵ_{cu2}	: Deformazione ultima di compressione del calcestruzzo.

Nom e	Classe	v	ps kN/m ³	αT 1/°C	Ec N/mm ²	FC	$\gamma_{m,c}$	Ect/Ec	fcm N/mm ²	Fcd SLU N/mm ²	fctd SLU N/mm ²	fcd SLD N/mm ²	fctd SLD N/mm ²	fctk,0.05 N/mm ²	fctm N/mm ²	ϵ_{c2} %	ϵ_{cu2} %
Cls (1)	C25/30	0.15	25.00	1E-05	31475.806	-	1.50	0.50	25.00	14.167	1.197	21.25	1.795	1.795	2.565	0.20	0.35
Cls	Da prove	0.15	25.00	1E-05	29961.951	1.00	1.50	0.50	20.00	11.333	1.032	17.00	1.547	1.547	2.21	0.20	0.35

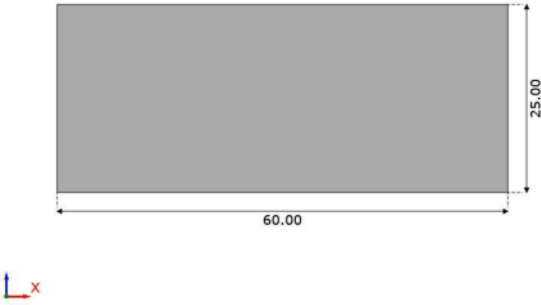
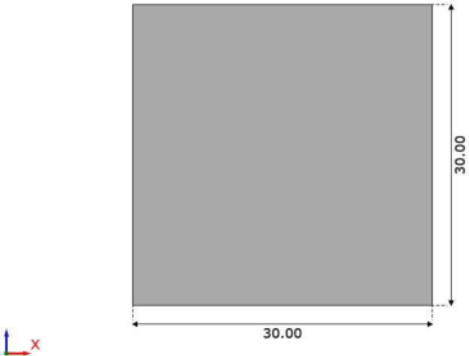
1.1.2 Acciaio per C.A.

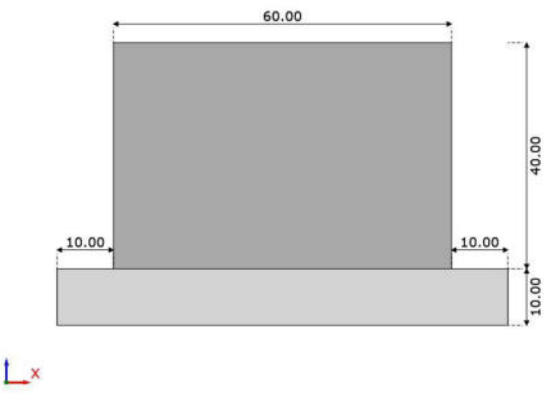
Nome	: Nome del materiale;
Tipo	: Tipo di acciaio in base alla classificazione da normativa;
γ_m	: Coefficiente parziale per le resistenze;
FC	: Fattore di confidenza (solo per costruzioni esistenti);
Es	: Modulo elastico del materiale;
f _{yk}	: Resistenza caratteristica di snervamento a trazione;
f _{tk}	: Resistenza caratteristica a rottura a trazione;
f _d SLU	: Resistenza di calcolo a trazione per gli SLU;
f _d SLD	: Resistenza di calcolo a trazione per gli SLD;
f _d SLE	: Resistenza di calcolo a trazione per gli SLE;
k	: Rapporto di sovrarresistenza (f _{tk} / f _{yk} > 1 per modello incrudente)
ϵ_{ud}	: Valore di calcolo della deformazione ultima a trazione.

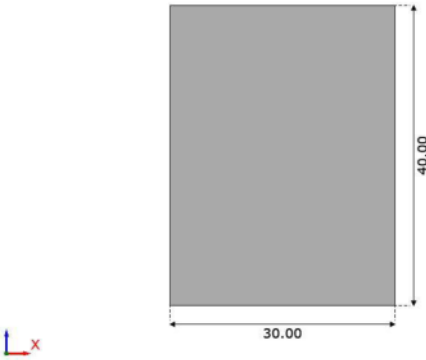
Nome	Tipo	γ_m	FC	Es N/mm ²	f _{yk} N/mm ²	f _{tk} N/mm ²	f _d SLU N/mm ²	f _d SLD N/mm ²	f _d SLE N/mm ²	k	ϵ_{ud} %
Barre (1)	B450C	1.15	-	210000.00	450.00	540.00	391.304	450.00	391.304	1.20	1.00
Feb 44 k	da prove			210000.00	420.00	540.00	391.304	450.00	391.304	1.20	1.00

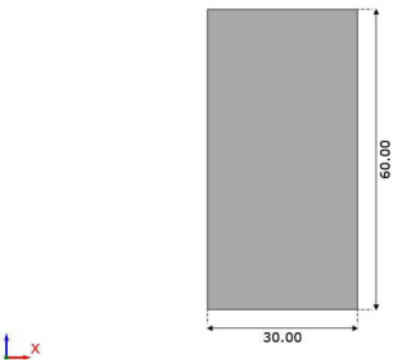
3.2 Elenco e caratteristiche delle sezioni trasversali

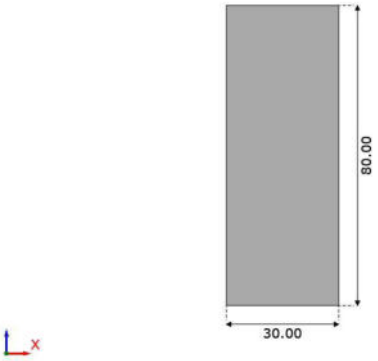
- Prof. : Profilato/i associati alle sezioni in acciaio;
A : Area della sezione;
J2 : Momento di inerzia baricentrico intorno all'asse 2 locale;
J3 : Momento di inerzia baricentrico intorno all'asse 3 locale;
Jt : Momento di inerzia torsionale;
Mat. : Nome dei materiali della sezione (vedi "Elenco e Caratteristiche dei materiali");
Tr. tral. : Tipologia trave tralicciata associata (vedi "Elenco e Caratteristiche delle tipologie di trave tralicciata");
Peso : Peso per unità di lunghezza della sezione;

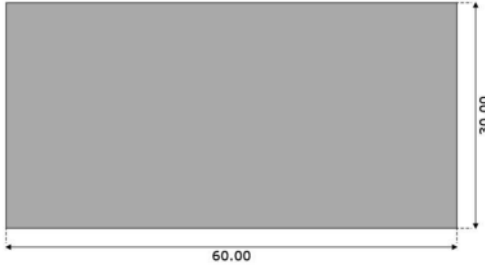
Tipologia N.1 (Tip_R (14))	
	<p>A = 150000.00 mm² J2 = 781250000.0 mm⁴ J3 = 4500000000.0 mm⁴ Jt = 2308593750.0 mm⁴ Mat. = Cls esist Peso = 3750.00 N/m</p>
Tipologia N.2 (Tip_R (12))	
	<p>A = 90000.00 mm² J2 = 675000000.0 mm⁴ J3 = 675000000.0 mm⁴ Jt = 1138599943.8 mm⁴ Mat. = Cls2 Peso = 2250.00 N/m</p>
Tipologia N.3 (Tip_F (1))	

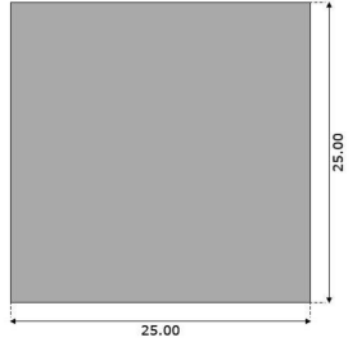
	<p>A = 240000.00 mm² J2 = 3200000000.0 mm⁴ J3 = 7200000000.0 mm⁴ Jt = 7449600000.0 mm⁴ Mat. = Cls esist Mat. = Cls 1 Peso = 6000.00 N/m</p>
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Tipologia N.4 (Tip_R (26))	
	<p>A = 120000.00 mm² J2 = 1600000000.0 mm⁴ J3 = 900000000.0 mm⁴ Jt = 1907100000.0 mm⁴ Mat. = Cls esist Peso = 3000.00 N/m</p>

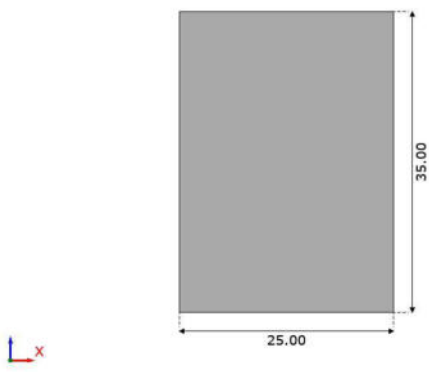
Tipologia N.5 (Tip_R (28))	
	<p>A = 180000.00 mm² J2 = 5400000000.0 mm⁴ J3 = 1350000000.0 mm⁴ Jt = 3707100000.0 mm⁴ Mat. = Cls esist Peso = 4500.00 N/m</p>

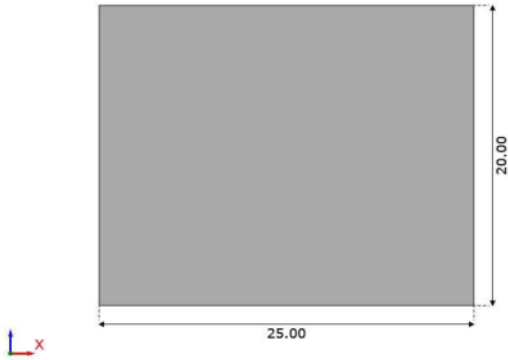
Tipologia N.6 (Tip_R (4))	
	<p>A = 240000.00 mm² J2 = 12800000000.0 mm⁴ J3 = 18000000000.0 mm⁴ Jt = 5507100000.0 mm⁴ Mat. = Cls esist Peso = 6000.00 N/m</p>

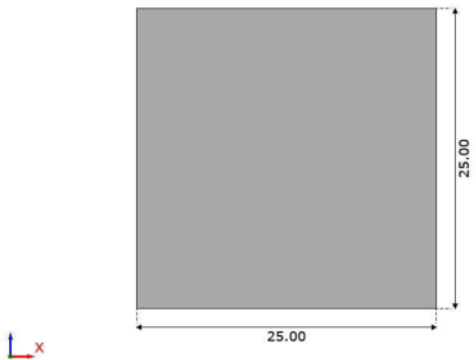
Tipologia N.7 (Tip_R (22))	
	<p>A = 180000.00 mm² J2 = 1350000000.0 mm⁴ J3 = 5400000000.0 mm⁴ Jt = 3707100000.0 mm⁴ Mat. = Cls esist Peso = 4500.00 N/m</p>

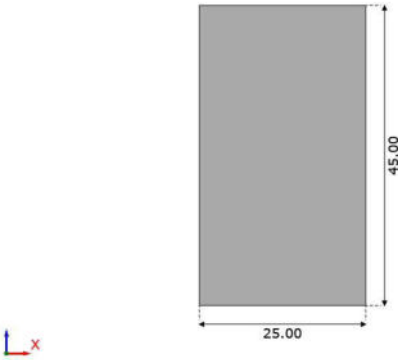
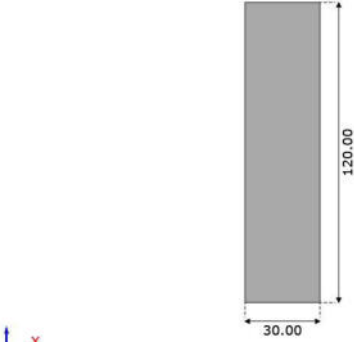
Tipologia N.8 (Tip_R (24))	
	<p>A = 62500.00 mm² J2 = 325520833.3 mm⁴ J3 = 325520833.3 mm⁴ Jt = 549093337.1 mm⁴ Mat. = Cls esist Peso = 1562.50 N/m</p>

Tipologia N.9 (Tip_R (16))

	<p> A = 87500.00 mm² J2 = 893229166.7 mm⁴ J3 = 455729166.7 mm⁴ Jt = 1006510416.7 mm⁴ Mat. = Cls esist Peso = 2187.50 N/m </p>
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Tipologia N.10 (Tip_R (18))	
	<p> A = 50000.00 mm² J2 = 166666666.7 mm⁴ J3 = 260416666.7 mm⁴ Jt = 332266666.7 mm⁴ Mat. = Cls esist Peso = 1250.00 N/m </p>

Tipologia N.11 (Tip_R (6))	
	<p> A = 62500.00 mm² J2 = 325520833.3 mm⁴ J3 = 325520833.3 mm⁴ Jt = 549093337.1 mm⁴ Mat. = Cls esist Peso = 1562.50 N/m </p>

Tipologia N.12 (Tip_R (8))	
	<p>A = 112500.00 mm² J2 = 1898437500.0 mm⁴ J3 = 585937500.0 mm⁴ Jt = 1527343750.0 mm⁴ Mat. = Cls esist Peso = 2812.50 N/m</p>
Tipologia N.13 (Tip_R (10))	
	<p>A = 360000.00 mm² J2 = 43200000000.0 mm⁴ J3 = 2700000000.0 mm⁴ Jt = 9107100000.0 mm⁴ Mat. = Cls esist Peso = 9000.00 N/m</p>

3.3 Stratigrafie del terreno

- Caratteristiche litostratigrafiche

L’analisi dei risultati ottenuti dalle indagini per la caratterizzazione della categoria di sottosuolo sono meglio indicati nella relazione geologico-tecnica allegata. Per quanto riguarda l’aspetto geologico a seguito il rilevamento di un significativo intorno della zona in esame si è riscontrata la presenza delle seguenti successioni litostratigrafiche nelle relative sezioni geologiche (colonne stratigrafiche):

- Colonna : Nome della colonna stratigrafica usata;
- Nome dello strato : Nome dello strato appartenente la colonna stratigrafica usata;
- Descrizione dello strato: Descrizione estesa dello strato;

Colonna	Strato	Descrizione
Colonna 1	Strato1	

- Caratteristiche fisico meccaniche dei terreni di fondazione

Nell'ambito del progetto si è fatto uso delle seguenti colonne stratigrafiche:

Caratteristiche delle colonne stratigrafiche:

Colonna	: Nome della colonna stratigrafica;
Falda	: Presenza della falda;
Prof. Falda	: Profondità della falda (se è presente);
Quota piano campagna	: Quota piano campagna;
N. Strati	: Numero degli strati della colonna stratigrafica.
RQD	: (Rock Quality Designation) grado di fratturazione dell'ammasso roccioso in [0-1]

Colonna	Falda	Prof. Falda [cm]	Quota piano campagna [cm]	N. Strati	RQD
Colonna 1	Non presente	-	-170	1	0.00

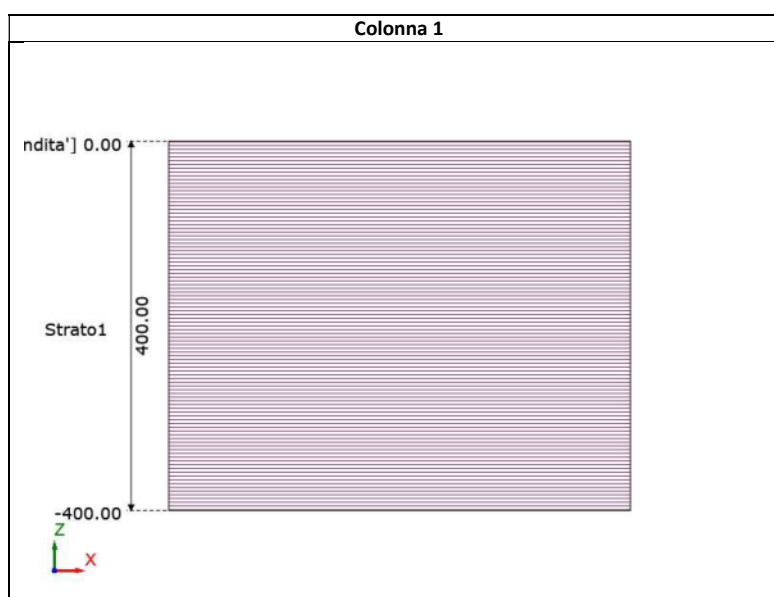
Caratteristiche degli strati appartenenti alle colonne stratigrafiche:

Colonna	: Nome della colonna stratigrafica;
Strato	: Nome dello strato appartenente la colonna stratigrafica;
Spess.	: Spessore dello strato;
Peso	: Peso dell'unità di volume dello strato;
Peso sat.	: Peso dell'unità di volume saturo dello strato;
NSPT	: Numero di colpi medio misurato nello strato;
Qc	: Resistenza alla punta media misurata nello strato;
ϕ	: Angolo di attrito del terreno;
δ	: Angolo di attrito terreno/struttura;
α	: Inclinazione dello strato;
c'	: Coesione drenata del terreno;
cu'	: Coesione non drenata del terreno;
E	: Modulo elastico del terreno;
G	: Modulo di taglio del terreno;
vt°	: Coefficiente di Poisson;
Eed	: Modulo Edometrico;
OCR	: Grado di sovraconsolidazione del terreno.

Colonna 1															
Strato	Spess.	Peso	Peso sat.	NSPT	Qc	ϕ	δ	α	c'	cu'	E	G	vt°	Eed	OC R

	[cm]	[kN/m ³]	[kN/m ³]		[N/mm ²]	[°]	[°]	[°]	[N/mm ²]	[N/mm ²]	[N/mm ²]	[N/mm ²]		[N/mm ²]	
Strato 1	400.0 0	14.50	8.00	13.0 0	1.50	34.8 0	23.0 0	0.0 0	0.00	0.087	15.60	83.026	0.3 5	6.50	1.0 0

- Sezioni Geologiche:



3.4 Elenco e caratteristiche delle tipologie di solaio

Tipo solaio : Tipo di solaio;

Mat. cls : Nome del materiale calcestruzzo per la tipologia di solaio*;

Mat. acc. carp. : Nome del materiale acciaio da carpenteria per la tipologia di solaio*;

Mat. legno travi : Nome del materiale legno delle travi per la tipologia di solaio*;

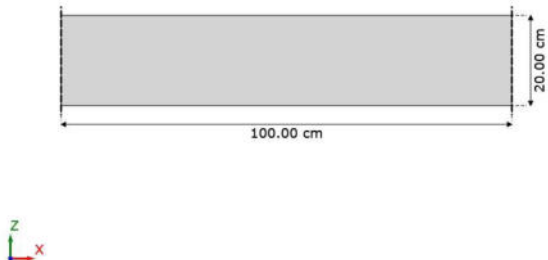
Mat. legno tav. : Nome del materiale legno del tavolato per la tipologia di solaio*;

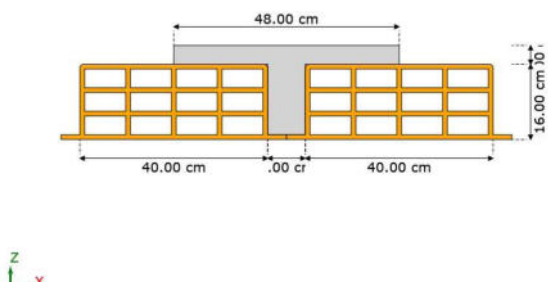
Peso proprio : Peso proprio per unità di superficie della tipologia di solaio;

Peso portato : Peso portato per unità di superficie della tipologia di solaio;

Peso reagente : Peso reagente per unità di superficie della tipologia di solaio;

* vedi "Elenco e Caratteristiche dei materiali"

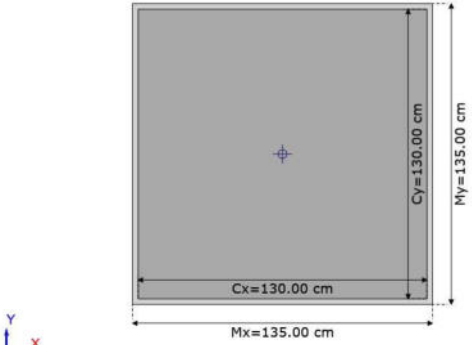
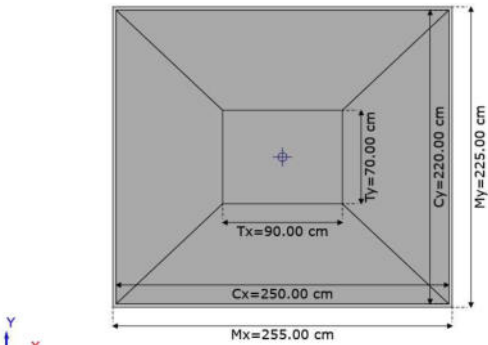
Tipologia N.1 (BCA_AGGETTO)	
	<p>Tipo solaio = Balcone in C.A. Mat. cls = Cls esist Peso proprio = 5.00 kN/m² Peso portato = 0.00 kN/m² Peso reagente = 5.00 kN/m²</p>

Tipologia N.2 (SLC_SOL.LATCEM)	
	<p>Tipo solaio = Latero cemento Mat. cls = Cls esist Peso proprio = 2.4667 kN/m² Peso portato = 0.80 kN/m² Peso reagente = 1.6667 kN/m²</p>

3.5 Elenco e caratteristiche dei plinti

Mat.	: Nome del materiale del plinto (vedi "Elenco e Caratteristiche dei materiali");
Col. str.	: Colonna stratigrafica associata al plinto (vedi "Stratigrafie del terreno");
Hc	: Altezza del corpo del plinto;
Hm	: Altezza del magrone del plinto;
Ht	: Altezza della testa del plinto;
R	: Risega;
Rm	: Risega magrone;
N. pali	: Numero di pali;
Tipo pali	: Tipo di pali;
Dp	: Diametro dei pali;
Prof. cam. pali	: Profilato associato alla camicia dei pali;
Lungh. pali	: Lunghezza dei pali;
Mat. pali	: Nome del materiale dei pali (vedi "Elenco e Caratteristiche dei materiali");

Mat. cam. pali : Nome del materiale della camicia pali (vedi “Elenco e Caratteristiche dei materiali”);
Bicchiera : Presenza del bicchiere;
Hb : Altezza bicchiere;
Sb : Spessore bicchiere;

Tipologia N.1 (TipPI_M (1))	
	<p>Mat. = Cls esist Col. str. = Colonna 1 Hc = 30.00 cm Hm = 5.00 cm Bicchiera = non presente</p>
Tipologia N.2 (TipPI_T (2))	
	<p>Mat. = Cls esist Col. str. = Colonna 1 Hc = 40.00 cm Hm = 5.00 cm Ht = 10.00 cm Bicchiera = non presente</p>

3.6 Geometria Struttura

3.6.1 Caratteristiche dei Nodi

I dati seguenti riportano tutte le caratteristiche relative ai nodi che definiscono la struttura ed in modo particolare:

Nodo I. : Etichetta del nodo di input;
Nodo C. : Numerazione interna del nodo relativa al modello di calcolo;
Impalcato : Impalcato di appartenenza del nodo;
Tipo legame : Tipo di legame master-slave di cui il nodo corrente è master;
Coordinate : Coordinate del nodo secondo il sistema di riferimento globale cartesiano;
Tip. plinto : Tipologia plinto associata al nodo (vedi “Elenco e caratteristiche dei plinti”);
Tip. rinforzo : Tipologia rinforzo associata al nodo (vedi “Elenco e caratteristiche delle tipologie di rinforzo”);

Master : Nodo MASTER dal quale dipende il nodo corrente;
 Vincoli : Eventuali vincoli esterni del nodo in ognuna delle 6 direzioni:
 Sx : Direzione X rispetto al sistema di riferimento globale;
 Sy : Direzione Y rispetto al sistema di riferimento globale;
 Sz : Direzione Z rispetto al sistema di riferimento globale;
 Rx : Rotazione attorno all'asse X del sistema di riferimento globale;
 Ry : Rotazione attorno all'asse Y del sistema di riferimento globale;
 Rz : Rotazione attorno all'asse Z del sistema di riferimento globale;

I simboli dei vincoli assumono il seguente significato:

L : Non presenza di vincoli;
 P : Valore infinito della rigidità;
 Valore : Valore della molla applicata al nodo;

Nodo I.	Nodo C.	Impalcato	Tipo legame	Coordinate			Tip. plinto	Tip. rinforzo	Master
				x	y	z			
				[cm]	[cm]	[cm]			
Nodo 1	1	1	-	0.00	0.00	0.00	2	-	-
Nodo 1	2	-	-	0.00	0.00	-22.50	2	-	-
Nodo 1	3	-	-	-125.00	-110.00	-22.50	2	-	-
Nodo 1	4	-	-	125.00	-110.00	-22.50	2	-	-
Nodo 1	5	-	-	125.00	110.00	-22.50	2	-	-
Nodo 1	6	-	-	-125.00	110.00	-22.50	2	-	-
Nodo 2	7	2	-	0.00	0.00	260.00	-	-	907
Nodo 3	8	3	-	0.00	0.00	448.00	-	-	908
Nodo 4	9	4	-	0.00	0.00	580.00	-	-	909
Nodo 5	10	5	-	0.00	0.00	870.00	-	-	910
Nodo 6	11	1	-	1260.00	0.00	0.00	2	-	-
Nodo 6	12	-	-	1260.00	0.00	-22.50	2	-	-
Nodo 6	13	-	-	1135.00	-110.00	-22.50	2	-	-
Nodo 6	14	-	-	1385.00	-110.00	-22.50	2	-	-
Nodo 6	15	-	-	1385.00	110.00	-22.50	2	-	-
Nodo 6	16	-	-	1135.00	110.00	-22.50	2	-	-
Nodo 7	17	2	-	1260.00	0.00	260.00	-	-	907
Nodo 8	18	3	-	1260.00	0.00	448.00	-	-	908
Nodo 9	19	4	-	1260.00	0.00	580.00	-	-	909
Nodo 10	20	5	-	1260.00	0.00	870.00	-	-	910
Nodo 11	21	1	-	0.00	-474.00	0.00	2	-	-
Nodo 11	22	-	-	0.00	-474.00	-22.50	2	-	-
Nodo 11	23	-	-	-125.00	-584.00	-22.50	2	-	-
Nodo 11	24	-	-	125.00	-584.00	-22.50	2	-	-
Nodo 11	25	-	-	125.00	-364.00	-22.50	2	-	-
Nodo 11	26	-	-	-125.00	-364.00	-22.50	2	-	-
Nodo 12	27	2	-	0.00	-474.00	260.00	-	-	907
Nodo 13	28	3	-	0.00	-474.00	448.00	-	-	908
Nodo 14	29	4	-	0.00	-474.00	580.00	-	-	909
Nodo 15	30	5	-	0.00	-474.00	870.00	-	-	910
Nodo 16	31	1	-	1260.00	-474.00	0.00	2	-	-
Nodo 16	32	-	-	1260.00	-474.00	-22.50	2	-	-
Nodo 16	33	-	-	1135.00	-584.00	-22.50	2	-	-
Nodo 16	34	-	-	1385.00	-584.00	-22.50	2	-	-
Nodo 16	35	-	-	1385.00	-364.00	-22.50	2	-	-
Nodo 16	36	-	-	1135.00	-364.00	-22.50	2	-	-
Nodo 17	37	2	-	1260.00	-474.00	260.00	-	-	907
Nodo 18	38	3	-	1260.00	-474.00	448.00	-	-	908
Nodo 19	39	4	-	1260.00	-474.00	580.00	-	-	909
Nodo 20	40	5	-	1260.00	-474.00	870.00	-	-	910
Nodo 21	41	1	-	1875.00	-474.00	0.00	1	-	-
Nodo 21	42	-	-	1875.00	-474.00	-15.00	1	-	-
Nodo 21	43	-	-	1810.00	-539.00	-15.00	1	-	-
Nodo 21	44	-	-	1940.00	-539.00	-15.00	1	-	-
Nodo 21	45	-	-	1940.00	-409.00	-15.00	1	-	-
Nodo 21	46	-	-	1810.00	-409.00	-15.00	1	-	-
Nodo 22	47	2	-	1875.00	-474.00	260.00	-	-	907
Nodo 23	48	3	-	1875.00	-474.00	448.00	-	-	908
Nodo 24	49	4	-	1875.00	-474.00	580.00	-	-	909

Nodo 26	50	1	-	0.00	-948.00	0.00	2	-	-
Nodo 26	51	-	-	0.00	-948.00	-22.50	2	-	-
Nodo 26	52	-	-	-125.00	-1058.00	-22.50	2	-	-
Nodo 26	53	-	-	125.00	-1058.00	-22.50	2	-	-
Nodo 26	54	-	-	125.00	-838.00	-22.50	2	-	-
Nodo 26	55	-	-	-125.00	-838.00	-22.50	2	-	-
Nodo 27	56	2	-	0.00	-948.00	260.00	-	-	907
Nodo 28	57	3	-	0.00	-948.00	448.00	-	-	908
Nodo 29	58	4	-	0.00	-948.00	580.00	-	-	909
Nodo 30	59	5	-	0.00	-948.00	870.00	-	-	910
Nodo 31	60	1	-	1260.00	-948.00	0.00	2	-	-
Nodo 31	61	-	-	1260.00	-948.00	-22.50	2	-	-
Nodo 31	62	-	-	1135.00	-1058.00	-22.50	2	-	-
Nodo 31	63	-	-	1385.00	-1058.00	-22.50	2	-	-
Nodo 31	64	-	-	1385.00	-838.00	-22.50	2	-	-
Nodo 31	65	-	-	1135.00	-838.00	-22.50	2	-	-
Nodo 32	66	2	-	1260.00	-948.00	260.00	-	-	907
Nodo 33	67	3	-	1260.00	-948.00	448.00	-	-	908
Nodo 34	68	4	-	1260.00	-948.00	580.00	-	-	909
Nodo 35	69	5	-	1260.00	-948.00	870.00	-	-	910
Nodo 36	70	1	-	1875.00	-948.00	0.00	1	-	-
Nodo 36	71	-	-	1875.00	-948.00	-15.00	1	-	-
Nodo 36	72	-	-	1810.00	-1013.00	-15.00	1	-	-
Nodo 36	73	-	-	1940.00	-1013.00	-15.00	1	-	-
Nodo 36	74	-	-	1940.00	-883.00	-15.00	1	-	-
Nodo 36	75	-	-	1810.00	-883.00	-15.00	1	-	-
Nodo 37	76	2	-	1875.00	-948.00	260.00	-	-	907
Nodo 38	77	3	-	1875.00	-948.00	448.00	-	-	908
Nodo 39	78	4	-	1875.00	-948.00	580.00	-	-	909
Nodo 41	79	1	-	0.00	-1422.00	0.00	2	-	-
Nodo 41	80	-	-	0.00	-1422.00	-22.50	2	-	-
Nodo 41	81	-	-	-125.00	-1532.00	-22.50	2	-	-
Nodo 41	82	-	-	125.00	-1532.00	-22.50	2	-	-
Nodo 41	83	-	-	125.00	-1312.00	-22.50	2	-	-
Nodo 41	84	-	-	-125.00	-1312.00	-22.50	2	-	-
Nodo 42	85	2	-	0.00	-1422.00	260.00	-	-	907
Nodo 43	86	3	-	0.00	-1422.00	448.00	-	-	908
Nodo 44	87	4	-	0.00	-1422.00	580.00	-	-	909
Nodo 45	88	5	-	0.00	-1422.00	870.00	-	-	910
Nodo 46	89	1	-	1260.00	-1422.00	0.00	2	-	-
Nodo 46	90	-	-	1260.00	-1422.00	-22.50	2	-	-
Nodo 46	91	-	-	1135.00	-1532.00	-22.50	2	-	-
Nodo 46	92	-	-	1385.00	-1532.00	-22.50	2	-	-
Nodo 46	93	-	-	1385.00	-1312.00	-22.50	2	-	-
Nodo 46	94	-	-	1135.00	-1312.00	-22.50	2	-	-
Nodo 47	95	2	-	1260.00	-1422.00	260.00	-	-	907
Nodo 48	96	3	-	1260.00	-1422.00	448.00	-	-	908
Nodo 49	97	4	-	1260.00	-1422.00	580.00	-	-	909
Nodo 50	98	5	-	1260.00	-1422.00	870.00	-	-	910
Nodo 51	99	1	-	1875.00	-1422.00	0.00	1	-	-
Nodo 51	100	-	-	1875.00	-1422.00	-15.00	1	-	-
Nodo 51	101	-	-	1810.00	-1487.00	-15.00	1	-	-
Nodo 51	102	-	-	1940.00	-1487.00	-15.00	1	-	-
Nodo 51	103	-	-	1940.00	-1357.00	-15.00	1	-	-
Nodo 51	104	-	-	1810.00	-1357.00	-15.00	1	-	-
Nodo 52	105	2	-	1875.00	-1422.00	260.00	-	-	907
Nodo 53	106	3	-	1875.00	-1422.00	448.00	-	-	908
Nodo 54	107	4	-	1875.00	-1422.00	580.00	-	-	909
Nodo 56	108	1	-	2286.00	-1655.00	0.00	-	-	-
Nodo 57	109	2	-	2286.00	-1655.00	260.00	-	-	907
Nodo 58	110	3	-	2286.00	-1655.00	448.00	-	-	908
Nodo 61	111	1	-	2695.00	-1655.00	0.00	-	-	-
Nodo 62	112	2	-	2695.00	-1655.00	260.00	-	-	907
Nodo 63	113	3	-	2695.00	-1655.00	448.00	-	-	908
Nodo 66	114	1	-	1875.00	-1655.00	0.00	-	-	-
Nodo 67	115	2	-	1875.00	-1655.00	260.00	-	-	907
Nodo 68	116	3	-	1875.00	-1655.00	448.00	-	-	908
Nodo 71	117	1	-	0.00	-1896.00	0.00	2	-	-
Nodo 71	118	-	-	0.00	-1896.00	-22.50	2	-	-

Nodo 71	119	-	-	-125.00	-2006.00	-22.50	2	-	-
Nodo 71	120	-	-	125.00	-2006.00	-22.50	2	-	-
Nodo 71	121	-	-	125.00	-1786.00	-22.50	2	-	-
Nodo 71	122	-	-	-125.00	-1786.00	-22.50	2	-	-
Nodo 72	123	2	-	0.00	-1896.00	260.00	-	-	907
Nodo 73	124	3	-	0.00	-1896.00	448.00	-	-	908
Nodo 74	125	4	-	0.00	-1896.00	580.00	-	-	909
Nodo 75	126	5	-	0.00	-1896.00	870.00	-	-	910
Nodo 76	127	1	-	1260.00	-1896.00	0.00	2	-	-
Nodo 76	128	-	-	1260.00	-1896.00	-22.50	2	-	-
Nodo 76	129	-	-	1135.00	-2006.00	-22.50	2	-	-
Nodo 76	130	-	-	1385.00	-2006.00	-22.50	2	-	-
Nodo 76	131	-	-	1385.00	-1786.00	-22.50	2	-	-
Nodo 76	132	-	-	1135.00	-1786.00	-22.50	2	-	-
Nodo 77	133	2	-	1260.00	-1896.00	260.00	-	-	907
Nodo 78	134	3	-	1260.00	-1896.00	448.00	-	-	908
Nodo 79	135	4	-	1260.00	-1896.00	580.00	-	-	909
Nodo 80	136	5	-	1260.00	-1896.00	870.00	-	-	910
Nodo 81	137	1	-	1875.00	-1896.00	0.00	1	-	-
Nodo 81	138	-	-	1875.00	-1896.00	-15.00	1	-	-
Nodo 81	139	-	-	1810.00	-1961.00	-15.00	1	-	-
Nodo 81	140	-	-	1940.00	-1961.00	-15.00	1	-	-
Nodo 81	141	-	-	1940.00	-1831.00	-15.00	1	-	-
Nodo 81	142	-	-	1810.00	-1831.00	-15.00	1	-	-
Nodo 82	143	2	-	1875.00	-1896.00	260.00	-	-	907
Nodo 83	144	3	-	1875.00	-1896.00	448.00	-	-	908
Nodo 84	145	4	-	1875.00	-1896.00	580.00	-	-	909
Nodo 86	146	1	-	2286.00	-1987.00	0.00	-	-	-
Nodo 87	147	2	-	2286.00	-1987.00	260.00	-	-	907
Nodo 88	148	3	-	2286.00	-1987.00	448.00	-	-	908
Nodo 91	149	1	-	2695.00	-1987.00	0.00	-	-	-
Nodo 92	150	2	-	2695.00	-1987.00	260.00	-	-	907
Nodo 93	151	3	-	2695.00	-1987.00	448.00	-	-	908
Nodo 96	152	1	-	1875.00	-1987.00	0.00	-	-	-
Nodo 97	153	2	-	1875.00	-1987.00	260.00	-	-	907
Nodo 98	154	3	-	1875.00	-1987.00	448.00	-	-	908
Nodo 101	155	1	-	0.00	-2370.00	0.00	2	-	-
Nodo 101	156	-	-	0.00	-2370.00	-22.50	2	-	-
Nodo 101	157	-	-	-125.00	-2480.00	-22.50	2	-	-
Nodo 101	158	-	-	125.00	-2480.00	-22.50	2	-	-
Nodo 101	159	-	-	125.00	-2260.00	-22.50	2	-	-
Nodo 101	160	-	-	-125.00	-2260.00	-22.50	2	-	-
Nodo 102	161	2	-	0.00	-2370.00	260.00	-	-	907
Nodo 103	162	3	-	0.00	-2370.00	448.00	-	-	908
Nodo 104	163	4	-	0.00	-2370.00	580.00	-	-	909
Nodo 105	164	5	-	0.00	-2370.00	870.00	-	-	910
Nodo 106	165	1	-	1260.00	-2370.00	0.00	2	-	-
Nodo 106	166	-	-	1260.00	-2370.00	-22.50	2	-	-
Nodo 106	167	-	-	1135.00	-2480.00	-22.50	2	-	-
Nodo 106	168	-	-	1385.00	-2480.00	-22.50	2	-	-
Nodo 106	169	-	-	1385.00	-2260.00	-22.50	2	-	-
Nodo 106	170	-	-	1135.00	-2260.00	-22.50	2	-	-
Nodo 107	171	2	-	1260.00	-2370.00	260.00	-	-	907
Nodo 108	172	3	-	1260.00	-2370.00	448.00	-	-	908
Nodo 109	173	4	-	1260.00	-2370.00	580.00	-	-	909
Nodo 110	174	5	-	1260.00	-2370.00	870.00	-	-	910
Nodo 111	175	1	-	1875.00	-2370.00	0.00	1	-	-
Nodo 111	176	-	-	1875.00	-2370.00	-15.00	1	-	-
Nodo 111	177	-	-	1810.00	-2435.00	-15.00	1	-	-
Nodo 111	178	-	-	1940.00	-2435.00	-15.00	1	-	-
Nodo 111	179	-	-	1940.00	-2305.00	-15.00	1	-	-
Nodo 111	180	-	-	1810.00	-2305.00	-15.00	1	-	-
Nodo 112	181	2	-	1875.00	-2370.00	260.00	-	-	907
Nodo 113	182	3	-	1875.00	-2370.00	448.00	-	-	908
Nodo 114	183	4	-	1875.00	-2370.00	580.00	-	-	909
Nodo 116	184	1	-	346.00	-2370.00	0.00	1	-	-
Nodo 116	185	-	-	346.00	-2370.00	-15.00	1	-	-
Nodo 116	186	-	-	281.00	-2435.00	-15.00	1	-	-
Nodo 116	187	-	-	411.00	-2435.00	-15.00	1	-	-

Nodo 116	188	-	-	411.00	-2305.00	-15.00	1	-	-
Nodo 116	189	-	-	281.00	-2305.00	-15.00	1	-	-
Nodo 117	190	2	-	346.00	-2370.00	260.00	-	-	907
Nodo 118	191	3	-	346.00	-2370.00	448.00	-	-	908
Nodo 119	192	4	-	346.00	-2370.00	580.00	-	-	909
Nodo 121	193	1	-	1006.00	-2370.00	0.00	1	-	-
Nodo 121	194	-	-	1006.00	-2370.00	-15.00	1	-	-
Nodo 121	195	-	-	941.00	-2435.00	-15.00	1	-	-
Nodo 121	196	-	-	1071.00	-2435.00	-15.00	1	-	-
Nodo 121	197	-	-	1071.00	-2305.00	-15.00	1	-	-
Nodo 121	198	-	-	941.00	-2305.00	-15.00	1	-	-
Nodo 122	199	2	-	1006.00	-2370.00	260.00	-	-	907
Nodo 123	200	3	-	1006.00	-2370.00	448.00	-	-	908
Nodo 124	201	4	-	1006.00	-2370.00	580.00	-	-	909
Nodo 126	202	1	-	346.00	-3030.00	0.00	1	-	-
Nodo 126	203	-	-	346.00	-3030.00	-15.00	1	-	-
Nodo 126	204	-	-	281.00	-3095.00	-15.00	1	-	-
Nodo 126	205	-	-	411.00	-3095.00	-15.00	1	-	-
Nodo 126	206	-	-	411.00	-2965.00	-15.00	1	-	-
Nodo 126	207	-	-	281.00	-2965.00	-15.00	1	-	-
Nodo 127	208	2	-	346.00	-3030.00	260.00	-	-	907
Nodo 128	209	3	-	346.00	-3030.00	448.00	-	-	908
Nodo 129	210	4	-	346.00	-3030.00	580.00	-	-	909
Nodo 131	211	1	-	1006.00	-3030.00	0.00	1	-	-
Nodo 131	212	-	-	1006.00	-3030.00	-15.00	1	-	-
Nodo 131	213	-	-	941.00	-3095.00	-15.00	1	-	-
Nodo 131	214	-	-	1071.00	-3095.00	-15.00	1	-	-
Nodo 131	215	-	-	1071.00	-2965.00	-15.00	1	-	-
Nodo 131	216	-	-	941.00	-2965.00	-15.00	1	-	-
Nodo 132	217	2	-	1006.00	-3030.00	260.00	-	-	907
Nodo 133	218	3	-	1006.00	-3030.00	448.00	-	-	908
Nodo 134	219	4	-	1006.00	-3030.00	580.00	-	-	909
Nodo 136	220	1	-	1006.00	-2700.00	0.00	1	-	-
Nodo 136	221	-	-	1006.00	-2700.00	-15.00	1	-	-
Nodo 136	222	-	-	941.00	-2765.00	-15.00	1	-	-
Nodo 136	223	-	-	1071.00	-2765.00	-15.00	1	-	-
Nodo 136	224	-	-	1071.00	-2635.00	-15.00	1	-	-
Nodo 136	225	-	-	941.00	-2635.00	-15.00	1	-	-
Nodo 137	226	2	-	1006.00	-2700.00	260.00	-	-	907
Nodo 138	227	3	-	1006.00	-2700.00	448.00	-	-	908
Nodo 139	228	4	-	1006.00	-2700.00	580.00	-	-	909
Nodo 141	229	1	-	1875.00	-2700.00	0.00	1	-	-
Nodo 141	230	-	-	1875.00	-2700.00	-15.00	1	-	-
Nodo 141	231	-	-	1810.00	-2765.00	-15.00	1	-	-
Nodo 141	232	-	-	1940.00	-2765.00	-15.00	1	-	-
Nodo 141	233	-	-	1940.00	-2635.00	-15.00	1	-	-
Nodo 141	234	-	-	1810.00	-2635.00	-15.00	1	-	-
Nodo 142	235	2	-	1875.00	-2700.00	260.00	-	-	907
Nodo 143	236	3	-	1875.00	-2700.00	448.00	-	-	908
Nodo 144	237	4	-	1875.00	-2700.00	580.00	-	-	909
Nodo 146	238	1	-	1875.00	-3030.00	0.00	-	-	-
Nodo 147	239	2	-	1875.00	-3030.00	260.00	-	-	907
Nodo 148	240	3	-	1875.00	-3030.00	448.00	-	-	908
Nodo 149	241	4	-	1875.00	-3030.00	580.00	-	-	909
Nodo 151	242	1	-	1495.00	-2700.00	0.00	1	-	-
Nodo 151	243	-	-	1495.00	-2700.00	-15.00	1	-	-
Nodo 151	244	-	-	1430.00	-2765.00	-15.00	1	-	-
Nodo 151	245	-	-	1560.00	-2765.00	-15.00	1	-	-
Nodo 151	246	-	-	1560.00	-2635.00	-15.00	1	-	-
Nodo 151	247	-	-	1430.00	-2635.00	-15.00	1	-	-
Nodo 152	248	2	-	1495.00	-2700.00	260.00	-	-	907
Nodo 153	249	3	-	1495.00	-2700.00	448.00	-	-	908
Nodo 154	250	4	-	1495.00	-2700.00	580.00	-	-	909
Nodo 156	251	1	-	1495.00	-3030.00	0.00	1	-	-
Nodo 156	252	-	-	1495.00	-3030.00	-15.00	1	-	-
Nodo 156	253	-	-	1430.00	-3095.00	-15.00	1	-	-
Nodo 156	254	-	-	1560.00	-3095.00	-15.00	1	-	-
Nodo 156	255	-	-	1560.00	-2965.00	-15.00	1	-	-
Nodo 156	256	-	-	1430.00	-2965.00	-15.00	1	-	-

Nodo 157	257	2	-	1495.00	-3030.00	260.00	-	-	907
Nodo 158	258	3	-	1495.00	-3030.00	448.00	-	-	908
Nodo 159	259	4	-	1495.00	-3030.00	580.00	-	-	909
Nodo 165	260	5	-	-130.00	0.00	870.00	-	-	910
Nodo 170	261	5	-	-130.00	-474.00	870.00	-	-	910
Nodo 175	262	5	-	1390.00	0.00	870.00	-	-	910
Nodo 180	263	5	-	1390.00	-474.00	870.00	-	-	910
Nodo 185	264	5	-	1390.00	-948.00	870.00	-	-	910
Nodo 190	265	5	-	-130.00	-948.00	870.00	-	-	910
Nodo 195	266	5	-	-130.00	-1422.00	870.00	-	-	910
Nodo 200	267	5	-	1390.00	-1422.00	870.00	-	-	910
Nodo 205	268	5	-	-130.00	-1896.00	870.00	-	-	910
Nodo 210	269	5	-	1390.00	-1896.00	870.00	-	-	910
Nodo 215	270	5	-	-130.00	-2370.00	870.00	-	-	910
Nodo 220	271	5	-	1390.00	-2370.00	870.00	-	-	910
Nodo 221	272	1	-	630.00	0.00	0.00	1	-	-
Nodo 221	273	-	-	630.00	0.00	-15.00	1	-	-
Nodo 221	274	-	-	565.00	-65.00	-15.00	1	-	-
Nodo 221	275	-	-	695.00	-65.00	-15.00	1	-	-
Nodo 221	276	-	-	695.00	65.00	-15.00	1	-	-
Nodo 221	277	-	-	565.00	65.00	-15.00	1	-	-
Nodo 222	278	2	-	630.00	0.00	260.00	-	-	907
Nodo 226	279	1	-	630.00	-474.00	0.00	1	-	-
Nodo 226	280	-	-	630.00	-474.00	-15.00	1	-	-
Nodo 226	281	-	-	565.00	-539.00	-15.00	1	-	-
Nodo 226	282	-	-	695.00	-539.00	-15.00	1	-	-
Nodo 226	283	-	-	695.00	-409.00	-15.00	1	-	-
Nodo 226	284	-	-	565.00	-409.00	-15.00	1	-	-
Nodo 227	285	2	-	630.00	-474.00	260.00	-	-	907
Nodo 231	286	1	-	630.00	-948.00	0.00	1	-	-
Nodo 231	287	-	-	630.00	-948.00	-15.00	1	-	-
Nodo 231	288	-	-	565.00	-1013.00	-15.00	1	-	-
Nodo 231	289	-	-	695.00	-1013.00	-15.00	1	-	-
Nodo 231	290	-	-	695.00	-883.00	-15.00	1	-	-
Nodo 231	291	-	-	565.00	-883.00	-15.00	1	-	-
Nodo 232	292	2	-	630.00	-948.00	260.00	-	-	907
Nodo 236	293	1	-	630.00	-1422.00	0.00	1	-	-
Nodo 236	294	-	-	630.00	-1422.00	-15.00	1	-	-
Nodo 236	295	-	-	565.00	-1487.00	-15.00	1	-	-
Nodo 236	296	-	-	695.00	-1487.00	-15.00	1	-	-
Nodo 236	297	-	-	695.00	-1357.00	-15.00	1	-	-
Nodo 236	298	-	-	565.00	-1357.00	-15.00	1	-	-
Nodo 237	299	2	-	630.00	-1422.00	260.00	-	-	907
Nodo 241	300	1	-	630.00	-1896.00	0.00	1	-	-
Nodo 241	301	-	-	630.00	-1896.00	-15.00	1	-	-
Nodo 241	302	-	-	565.00	-1961.00	-15.00	1	-	-
Nodo 241	303	-	-	695.00	-1961.00	-15.00	1	-	-
Nodo 241	304	-	-	695.00	-1831.00	-15.00	1	-	-
Nodo 241	305	-	-	565.00	-1831.00	-15.00	1	-	-
Nodo 242	306	2	-	630.00	-1896.00	260.00	-	-	907
-	307	-	-	-62.50	-110.00	-22.50	-	-	-
-	308	-	-	0.00	-110.00	-22.50	-	-	-
-	309	-	-	62.50	-110.00	-22.50	-	-	-
-	310	-	-	125.00	-55.00	-22.50	-	-	-
-	311	-	-	125.00	0.00	-22.50	-	-	-
-	312	-	-	125.00	55.00	-22.50	-	-	-
-	313	-	-	62.50	110.00	-22.50	-	-	-
-	314	-	-	0.00	110.00	-22.50	-	-	-
-	315	-	-	-62.50	110.00	-22.50	-	-	-
-	316	-	-	-125.00	55.00	-22.50	-	-	-
-	317	-	-	-125.00	0.00	-22.50	-	-	-
-	318	-	-	-125.00	-55.00	-22.50	-	-	-
-	319	-	-	1197.50	-110.00	-22.50	-	-	-
-	320	-	-	1260.00	-110.00	-22.50	-	-	-
-	321	-	-	1322.50	-110.00	-22.50	-	-	-
-	322	-	-	1385.00	-55.00	-22.50	-	-	-
-	323	-	-	1385.00	0.00	-22.50	-	-	-
-	324	-	-	1385.00	55.00	-22.50	-	-	-
-	325	-	-	1322.50	110.00	-22.50	-	-	-

-	326	-	-	1260.00	110.00	-22.50	-	-	-
-	327	-	-	1197.50	110.00	-22.50	-	-	-
-	328	-	-	1135.00	55.00	-22.50	-	-	-
-	329	-	-	1135.00	0.00	-22.50	-	-	-
-	330	-	-	1135.00	-55.00	-22.50	-	-	-
-	331	-	-	-62.50	-584.00	-22.50	-	-	-
-	332	-	-	0.00	-584.00	-22.50	-	-	-
-	333	-	-	62.50	-584.00	-22.50	-	-	-
-	334	-	-	125.00	-529.00	-22.50	-	-	-
-	335	-	-	125.00	-474.00	-22.50	-	-	-
-	336	-	-	125.00	-419.00	-22.50	-	-	-
-	337	-	-	62.50	-364.00	-22.50	-	-	-
-	338	-	-	0.00	-364.00	-22.50	-	-	-
-	339	-	-	-62.50	-364.00	-22.50	-	-	-
-	340	-	-	-125.00	-419.00	-22.50	-	-	-
-	341	-	-	-125.00	-474.00	-22.50	-	-	-
-	342	-	-	-125.00	-529.00	-22.50	-	-	-
-	343	-	-	1197.50	-584.00	-22.50	-	-	-
-	344	-	-	1260.00	-584.00	-22.50	-	-	-
-	345	-	-	1322.50	-584.00	-22.50	-	-	-
-	346	-	-	1385.00	-529.00	-22.50	-	-	-
-	347	-	-	1385.00	-474.00	-22.50	-	-	-
-	348	-	-	1385.00	-419.00	-22.50	-	-	-
-	349	-	-	1322.50	-364.00	-22.50	-	-	-
-	350	-	-	1260.00	-364.00	-22.50	-	-	-
-	351	-	-	1197.50	-364.00	-22.50	-	-	-
-	352	-	-	1135.00	-419.00	-22.50	-	-	-
-	353	-	-	1135.00	-474.00	-22.50	-	-	-
-	354	-	-	1135.00	-529.00	-22.50	-	-	-
-	355	-	-	1842.50	-539.00	-15.00	-	-	-
-	356	-	-	1875.00	-539.00	-15.00	-	-	-
-	357	-	-	1907.50	-539.00	-15.00	-	-	-
-	358	-	-	1940.00	-506.50	-15.00	-	-	-
-	359	-	-	1940.00	-474.00	-15.00	-	-	-
-	360	-	-	1940.00	-441.50	-15.00	-	-	-
-	361	-	-	1907.50	-409.00	-15.00	-	-	-
-	362	-	-	1875.00	-409.00	-15.00	-	-	-
-	363	-	-	1842.50	-409.00	-15.00	-	-	-
-	364	-	-	1810.00	-441.50	-15.00	-	-	-
-	365	-	-	1810.00	-474.00	-15.00	-	-	-
-	366	-	-	1810.00	-506.50	-15.00	-	-	-
-	367	-	-	-62.50	-1058.00	-22.50	-	-	-
-	368	-	-	0.00	-1058.00	-22.50	-	-	-
-	369	-	-	62.50	-1058.00	-22.50	-	-	-
-	370	-	-	125.00	-1003.00	-22.50	-	-	-
-	371	-	-	125.00	-948.00	-22.50	-	-	-
-	372	-	-	125.00	-893.00	-22.50	-	-	-
-	373	-	-	62.50	-838.00	-22.50	-	-	-
-	374	-	-	0.00	-838.00	-22.50	-	-	-
-	375	-	-	-62.50	-838.00	-22.50	-	-	-
-	376	-	-	-125.00	-893.00	-22.50	-	-	-
-	377	-	-	-125.00	-948.00	-22.50	-	-	-
-	378	-	-	-125.00	-1003.00	-22.50	-	-	-
-	379	-	-	1197.50	-1058.00	-22.50	-	-	-
-	380	-	-	1260.00	-1058.00	-22.50	-	-	-
-	381	-	-	1322.50	-1058.00	-22.50	-	-	-
-	382	-	-	1385.00	-1003.00	-22.50	-	-	-
-	383	-	-	1385.00	-948.00	-22.50	-	-	-
-	384	-	-	1385.00	-893.00	-22.50	-	-	-
-	385	-	-	1322.50	-838.00	-22.50	-	-	-
-	386	-	-	1260.00	-838.00	-22.50	-	-	-
-	387	-	-	1197.50	-838.00	-22.50	-	-	-
-	388	-	-	1135.00	-893.00	-22.50	-	-	-
-	389	-	-	1135.00	-948.00	-22.50	-	-	-
-	390	-	-	1135.00	-1003.00	-22.50	-	-	-
-	391	-	-	1842.50	-1013.00	-15.00	-	-	-
-	392	-	-	1875.00	-1013.00	-15.00	-	-	-
-	393	-	-	1907.50	-1013.00	-15.00	-	-	-
-	394	-	-	1940.00	-980.50	-15.00	-	-	-

-	395	-	-	1940.00	-948.00	-15.00	-	-	-
-	396	-	-	1940.00	-915.50	-15.00	-	-	-
-	397	-	-	1907.50	-883.00	-15.00	-	-	-
-	398	-	-	1875.00	-883.00	-15.00	-	-	-
-	399	-	-	1842.50	-883.00	-15.00	-	-	-
-	400	-	-	1810.00	-915.50	-15.00	-	-	-
-	401	-	-	1810.00	-948.00	-15.00	-	-	-
-	402	-	-	1810.00	-980.50	-15.00	-	-	-
-	403	-	-	-62.50	-1532.00	-22.50	-	-	-
-	404	-	-	0.00	-1532.00	-22.50	-	-	-
-	405	-	-	62.50	-1532.00	-22.50	-	-	-
-	406	-	-	125.00	-1477.00	-22.50	-	-	-
-	407	-	-	125.00	-1422.00	-22.50	-	-	-
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-	409	-	-	62.50	-1312.00	-22.50	-	-	-
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-	415	-	-	1197.50	-1532.00	-22.50	-	-	-
-	416	-	-	1260.00	-1532.00	-22.50	-	-	-
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-	429	-	-	1907.50	-1487.00	-15.00	-	-	-
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-	436	-	-	1810.00	-1389.50	-15.00	-	-	-
-	437	-	-	1810.00	-1422.00	-15.00	-	-	-
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-	445	-	-	62.50	-1786.00	-22.50	-	-	-
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-	457	-	-	1322.50	-1786.00	-22.50	-	-	-
-	458	-	-	1260.00	-1786.00	-22.50	-	-	-
-	459	-	-	1197.50	-1786.00	-22.50	-	-	-
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-	461	-	-	1135.00	-1896.00	-22.50	-	-	-
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-	465	-	-	1907.50	-1961.00	-15.00	-	-	-
-	466	-	-	1940.00	-1928.50	-15.00	-	-	-
-	467	-	-	1940.00	-1896.00	-15.00	-	-	-
-	468	-	-	1940.00	-1863.50	-15.00	-	-	-
-	469	-	-	1907.50	-1831.00	-15.00	-	-	-
-	470	-	-	1875.00	-1831.00	-15.00	-	-	-
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-	472	-	-	1810.00	-1863.50	-15.00	-	-	-
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-	479	-	-	125.00	-2370.00	-22.50	-	-	-
-	480	-	-	125.00	-2315.00	-22.50	-	-	-
-	481	-	-	62.50	-2260.00	-22.50	-	-	-
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-	491	-	-	1385.00	-2370.00	-22.50	-	-	-
-	492	-	-	1385.00	-2315.00	-22.50	-	-	-
-	493	-	-	1322.50	-2260.00	-22.50	-	-	-
-	494	-	-	1260.00	-2260.00	-22.50	-	-	-
-	495	-	-	1197.50	-2260.00	-22.50	-	-	-
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-	502	-	-	1940.00	-2402.50	-15.00	-	-	-
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-	504	-	-	1940.00	-2337.50	-15.00	-	-	-
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-	508	-	-	1810.00	-2337.50	-15.00	-	-	-
-	509	-	-	1810.00	-2370.00	-15.00	-	-	-
-	510	-	-	1810.00	-2402.50	-15.00	-	-	-
-	511	-	-	313.50	-2435.00	-15.00	-	-	-
-	512	-	-	346.00	-2435.00	-15.00	-	-	-
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-	522	-	-	281.00	-2402.50	-15.00	-	-	-
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-	544	-	-	281.00	-2997.50	-15.00	-	-	-
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-	546	-	-	281.00	-3062.50	-15.00	-	-	-
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-	548	-	-	1006.00	-3095.00	-15.00	-	-	-
-	549	-	-	1038.50	-3095.00	-15.00	-	-	-
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-	576	-	-	1940.00	-2667.50	-15.00	-	-	-
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-	588	-	-	1560.00	-2667.50	-15.00	-	-	-
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-	645	-	-	662.50	-1487.00	-15.00	-	-	-
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-	652	-	-	565.00	-1389.50	-15.00	-	-	-
-	653	-	-	565.00	-1422.00	-15.00	-	-	-
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-	655	-	-	597.50	-1961.00	-15.00	-	-	-
-	656	-	-	630.00	-1961.00	-15.00	-	-	-
-	657	-	-	662.50	-1961.00	-15.00	-	-	-
-	658	-	-	695.00	-1928.50	-15.00	-	-	-
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-	674	-	-	62.51	-55.00	-22.50	-	-	-
-	675	-	-	1260.00	-55.00	-22.50	-	-	-
-	676	-	-	1322.52	0.00	-22.50	-	-	-
-	677	-	-	1197.48	0.00	-22.50	-	-	-
-	678	-	-	1197.49	-55.00	-22.50	-	-	-
-	679	-	-	1260.00	55.00	-22.50	-	-	-
-	680	-	-	1322.51	55.00	-22.50	-	-	-
-	681	-	-	1197.49	55.00	-22.50	-	-	-
-	682	-	-	1322.51	-55.00	-22.50	-	-	-
-	683	-	-	0.00	-529.00	-22.50	-	-	-
-	684	-	-	62.52	-474.00	-22.50	-	-	-
-	685	-	-	-62.52	-474.00	-22.50	-	-	-
-	686	-	-	-62.51	-529.00	-22.50	-	-	-
-	687	-	-	0.00	-419.00	-22.50	-	-	-
-	688	-	-	62.51	-419.00	-22.50	-	-	-
-	689	-	-	-62.51	-419.00	-22.50	-	-	-
-	690	-	-	62.51	-529.00	-22.50	-	-	-
-	691	-	-	1260.00	-529.00	-22.50	-	-	-
-	692	-	-	1322.52	-474.00	-22.50	-	-	-
-	693	-	-	1197.48	-474.00	-22.50	-	-	-
-	694	-	-	1197.49	-529.00	-22.50	-	-	-
-	695	-	-	1260.00	-419.00	-22.50	-	-	-
-	696	-	-	1322.51	-419.00	-22.50	-	-	-
-	697	-	-	1197.49	-419.00	-22.50	-	-	-
-	698	-	-	1322.51	-529.00	-22.50	-	-	-
-	699	-	-	1875.00	-506.50	-15.00	-	-	-
-	700	-	-	1842.50	-474.00	-15.00	-	-	-
-	701	-	-	1842.50	-506.50	-15.00	-	-	-
-	702	-	-	1907.50	-474.00	-15.00	-	-	-
-	703	-	-	1875.00	-441.50	-15.00	-	-	-
-	704	-	-	1907.50	-441.50	-15.00	-	-	-
-	705	-	-	1842.50	-441.50	-15.00	-	-	-
-	706	-	-	1907.50	-506.50	-15.00	-	-	-
-	707	-	-	0.00	-1003.00	-22.50	-	-	-
-	708	-	-	62.52	-948.00	-22.50	-	-	-
-	709	-	-	-62.52	-948.00	-22.50	-	-	-
-	710	-	-	-62.51	-1003.00	-22.50	-	-	-
-	711	-	-	0.00	-893.00	-22.50	-	-	-
-	712	-	-	62.51	-893.00	-22.50	-	-	-
-	713	-	-	-62.51	-893.00	-22.50	-	-	-
-	714	-	-	62.51	-1003.00	-22.50	-	-	-
-	715	-	-	1260.00	-1003.00	-22.50	-	-	-
-	716	-	-	1322.52	-948.00	-22.50	-	-	-
-	717	-	-	1197.48	-948.00	-22.50	-	-	-
-	718	-	-	1197.49	-1003.00	-22.50	-	-	-
-	719	-	-	1260.00	-893.00	-22.50	-	-	-
-	720	-	-	1322.51	-893.00	-22.50	-	-	-
-	721	-	-	1197.49	-893.00	-22.50	-	-	-
-	722	-	-	1322.51	-1003.00	-22.50	-	-	-
-	723	-	-	1875.00	-980.50	-15.00	-	-	-
-	724	-	-	1842.50	-948.00	-15.00	-	-	-
-	725	-	-	1842.50	-980.50	-15.00	-	-	-
-	726	-	-	1907.50	-948.00	-15.00	-	-	-
-	727	-	-	1875.00	-915.50	-15.00	-	-	-
-	728	-	-	1907.50	-915.50	-15.00	-	-	-
-	729	-	-	1842.50	-915.50	-15.00	-	-	-
-	730	-	-	1907.50	-980.50	-15.00	-	-	-
-	731	-	-	0.00	-1477.00	-22.50	-	-	-
-	732	-	-	62.52	-1422.00	-22.50	-	-	-
-	733	-	-	-62.52	-1422.00	-22.50	-	-	-
-	734	-	-	-62.51	-1477.00	-22.50	-	-	-
-	735	-	-	0.00	-1367.00	-22.50	-	-	-
-	736	-	-	62.51	-1367.00	-22.50	-	-	-
-	737	-	-	-62.51	-1367.00	-22.50	-	-	-
-	738	-	-	62.51	-1477.00	-22.50	-	-	-
-	739	-	-	1260.00	-1477.00	-22.50	-	-	-

-	740	-	-	1322.52	-1422.00	-22.50	-	-	-
-	741	-	-	1197.48	-1422.00	-22.50	-	-	-
-	742	-	-	1197.49	-1477.00	-22.50	-	-	-
-	743	-	-	1260.00	-1367.00	-22.50	-	-	-
-	744	-	-	1322.51	-1367.00	-22.50	-	-	-
-	745	-	-	1197.49	-1367.00	-22.50	-	-	-
-	746	-	-	1322.51	-1477.00	-22.50	-	-	-
-	747	-	-	1875.00	-1454.50	-15.00	-	-	-
-	748	-	-	1842.50	-1422.00	-15.00	-	-	-
-	749	-	-	1842.50	-1454.50	-15.00	-	-	-
-	750	-	-	1907.50	-1422.00	-15.00	-	-	-
-	751	-	-	1875.00	-1389.50	-15.00	-	-	-
-	752	-	-	1907.50	-1389.50	-15.00	-	-	-
-	753	-	-	1842.50	-1389.50	-15.00	-	-	-
-	754	-	-	1907.50	-1454.50	-15.00	-	-	-
-	755	-	-	0.00	-1951.00	-22.50	-	-	-
-	756	-	-	62.52	-1896.00	-22.50	-	-	-
-	757	-	-	-62.52	-1896.00	-22.50	-	-	-
-	758	-	-	-62.51	-1951.00	-22.50	-	-	-
-	759	-	-	0.00	-1841.00	-22.50	-	-	-
-	760	-	-	62.51	-1841.00	-22.50	-	-	-
-	761	-	-	-62.51	-1841.00	-22.50	-	-	-
-	762	-	-	62.51	-1951.00	-22.50	-	-	-
-	763	-	-	1260.00	-1951.00	-22.50	-	-	-
-	764	-	-	1322.52	-1896.00	-22.50	-	-	-
-	765	-	-	1197.48	-1896.00	-22.50	-	-	-
-	766	-	-	1197.49	-1951.00	-22.50	-	-	-
-	767	-	-	1260.00	-1841.00	-22.50	-	-	-
-	768	-	-	1322.51	-1841.00	-22.50	-	-	-
-	769	-	-	1197.49	-1841.00	-22.50	-	-	-
-	770	-	-	1322.51	-1951.00	-22.50	-	-	-
-	771	-	-	1875.00	-1928.50	-15.00	-	-	-
-	772	-	-	1842.50	-1896.00	-15.00	-	-	-
-	773	-	-	1842.50	-1928.50	-15.00	-	-	-
-	774	-	-	1907.50	-1896.00	-15.00	-	-	-
-	775	-	-	1875.00	-1863.50	-15.00	-	-	-
-	776	-	-	1907.50	-1863.50	-15.00	-	-	-
-	777	-	-	1842.50	-1863.50	-15.00	-	-	-
-	778	-	-	1907.50	-1928.50	-15.00	-	-	-
-	779	-	-	0.00	-2425.00	-22.50	-	-	-
-	780	-	-	62.52	-2370.00	-22.50	-	-	-
-	781	-	-	-62.52	-2370.00	-22.50	-	-	-
-	782	-	-	-62.51	-2425.00	-22.50	-	-	-
-	783	-	-	0.00	-2315.00	-22.50	-	-	-
-	784	-	-	62.51	-2315.00	-22.50	-	-	-
-	785	-	-	-62.51	-2315.00	-22.50	-	-	-
-	786	-	-	62.51	-2425.00	-22.50	-	-	-
-	787	-	-	1260.00	-2425.00	-22.50	-	-	-
-	788	-	-	1322.52	-2370.00	-22.50	-	-	-
-	789	-	-	1197.48	-2370.00	-22.50	-	-	-
-	790	-	-	1197.49	-2425.00	-22.50	-	-	-
-	791	-	-	1260.00	-2315.00	-22.50	-	-	-
-	792	-	-	1322.51	-2315.00	-22.50	-	-	-
-	793	-	-	1197.49	-2315.00	-22.50	-	-	-
-	794	-	-	1322.51	-2425.00	-22.50	-	-	-
-	795	-	-	1875.00	-2402.50	-15.00	-	-	-
-	796	-	-	1842.50	-2370.00	-15.00	-	-	-
-	797	-	-	1842.50	-2402.50	-15.00	-	-	-
-	798	-	-	1907.50	-2370.00	-15.00	-	-	-
-	799	-	-	1875.00	-2337.50	-15.00	-	-	-
-	800	-	-	1907.50	-2337.50	-15.00	-	-	-
-	801	-	-	1842.50	-2337.50	-15.00	-	-	-
-	802	-	-	1907.50	-2402.50	-15.00	-	-	-
-	803	-	-	346.00	-2402.50	-15.00	-	-	-
-	804	-	-	313.50	-2370.00	-15.00	-	-	-
-	805	-	-	313.50	-2402.50	-15.00	-	-	-
-	806	-	-	378.50	-2370.00	-15.00	-	-	-
-	807	-	-	346.00	-2337.50	-15.00	-	-	-
-	808	-	-	378.50	-2337.50	-15.00	-	-	-

-	809	-	-	313.50	-2337.50	-15.00	-	-	-
-	810	-	-	378.50	-2402.50	-15.00	-	-	-
-	811	-	-	1006.00	-2402.50	-15.00	-	-	-
-	812	-	-	973.50	-2370.00	-15.00	-	-	-
-	813	-	-	973.50	-2402.50	-15.00	-	-	-
-	814	-	-	1038.50	-2370.00	-15.00	-	-	-
-	815	-	-	1006.00	-2337.50	-15.00	-	-	-
-	816	-	-	1038.50	-2337.50	-15.00	-	-	-
-	817	-	-	973.50	-2337.50	-15.00	-	-	-
-	818	-	-	1038.50	-2402.50	-15.00	-	-	-
-	819	-	-	346.00	-3062.50	-15.00	-	-	-
-	820	-	-	313.50	-3030.00	-15.00	-	-	-
-	821	-	-	313.50	-3062.50	-15.00	-	-	-
-	822	-	-	378.50	-3030.00	-15.00	-	-	-
-	823	-	-	346.00	-2997.50	-15.00	-	-	-
-	824	-	-	378.50	-2997.50	-15.00	-	-	-
-	825	-	-	313.50	-2997.50	-15.00	-	-	-
-	826	-	-	378.50	-3062.50	-15.00	-	-	-
-	827	-	-	1006.00	-3062.50	-15.00	-	-	-
-	828	-	-	973.50	-3030.00	-15.00	-	-	-
-	829	-	-	973.50	-3062.50	-15.00	-	-	-
-	830	-	-	1038.50	-3030.00	-15.00	-	-	-
-	831	-	-	1006.00	-2997.50	-15.00	-	-	-
-	832	-	-	1038.50	-2997.50	-15.00	-	-	-
-	833	-	-	973.50	-2997.50	-15.00	-	-	-
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-	835	-	-	1006.00	-2732.50	-15.00	-	-	-
-	836	-	-	973.50	-2700.00	-15.00	-	-	-
-	837	-	-	973.50	-2732.50	-15.00	-	-	-
-	838	-	-	1038.50	-2700.00	-15.00	-	-	-
-	839	-	-	1006.00	-2667.50	-15.00	-	-	-
-	840	-	-	1038.50	-2667.50	-15.00	-	-	-
-	841	-	-	973.50	-2667.50	-15.00	-	-	-
-	842	-	-	1038.50	-2732.50	-15.00	-	-	-
-	843	-	-	1875.00	-2732.50	-15.00	-	-	-
-	844	-	-	1842.50	-2700.00	-15.00	-	-	-
-	845	-	-	1842.50	-2732.50	-15.00	-	-	-
-	846	-	-	1907.50	-2700.00	-15.00	-	-	-
-	847	-	-	1875.00	-2667.50	-15.00	-	-	-
-	848	-	-	1907.50	-2667.50	-15.00	-	-	-
-	849	-	-	1842.50	-2667.50	-15.00	-	-	-
-	850	-	-	1907.50	-2732.50	-15.00	-	-	-
-	851	-	-	1495.00	-2732.50	-15.00	-	-	-
-	852	-	-	1462.50	-2700.00	-15.00	-	-	-
-	853	-	-	1462.50	-2732.50	-15.00	-	-	-
-	854	-	-	1527.50	-2700.00	-15.00	-	-	-
-	855	-	-	1495.00	-2667.50	-15.00	-	-	-
-	856	-	-	1527.50	-2667.50	-15.00	-	-	-
-	857	-	-	1462.50	-2667.50	-15.00	-	-	-
-	858	-	-	1527.50	-2732.50	-15.00	-	-	-
-	859	-	-	1495.00	-3062.50	-15.00	-	-	-
-	860	-	-	1462.50	-3030.00	-15.00	-	-	-
-	861	-	-	1462.50	-3062.50	-15.00	-	-	-
-	862	-	-	1527.50	-3030.00	-15.00	-	-	-
-	863	-	-	1495.00	-2997.50	-15.00	-	-	-
-	864	-	-	1527.50	-2997.50	-15.00	-	-	-
-	865	-	-	1462.50	-2997.50	-15.00	-	-	-
-	866	-	-	1527.50	-3062.50	-15.00	-	-	-
-	867	-	-	630.00	-32.50	-15.00	-	-	-
-	868	-	-	597.50	0.00	-15.00	-	-	-
-	869	-	-	597.50	-32.50	-15.00	-	-	-
-	870	-	-	662.50	0.00	-15.00	-	-	-
-	871	-	-	630.00	32.50	-15.00	-	-	-
-	872	-	-	662.50	32.50	-15.00	-	-	-
-	873	-	-	597.50	32.50	-15.00	-	-	-
-	874	-	-	662.50	-32.50	-15.00	-	-	-
-	875	-	-	630.00	-506.50	-15.00	-	-	-
-	876	-	-	597.50	-474.00	-15.00	-	-	-
-	877	-	-	597.50	-506.50	-15.00	-	-	-

-	878	-	-	662.50	-474.00	-15.00	-	-	-
-	879	-	-	630.00	-441.50	-15.00	-	-	-
-	880	-	-	662.50	-441.50	-15.00	-	-	-
-	881	-	-	597.50	-441.50	-15.00	-	-	-
-	882	-	-	662.50	-506.50	-15.00	-	-	-
-	883	-	-	630.00	-980.50	-15.00	-	-	-
-	884	-	-	597.50	-948.00	-15.00	-	-	-
-	885	-	-	597.50	-980.50	-15.00	-	-	-
-	886	-	-	662.50	-948.00	-15.00	-	-	-
-	887	-	-	630.00	-915.50	-15.00	-	-	-
-	888	-	-	662.50	-915.50	-15.00	-	-	-
-	889	-	-	597.50	-915.50	-15.00	-	-	-
-	890	-	-	662.50	-980.50	-15.00	-	-	-
-	891	-	-	630.00	-1454.50	-15.00	-	-	-
-	892	-	-	597.50	-1422.00	-15.00	-	-	-
-	893	-	-	597.50	-1454.50	-15.00	-	-	-
-	894	-	-	662.50	-1422.00	-15.00	-	-	-
-	895	-	-	630.00	-1389.50	-15.00	-	-	-
-	896	-	-	662.50	-1389.50	-15.00	-	-	-
-	897	-	-	597.50	-1389.50	-15.00	-	-	-
-	898	-	-	662.50	-1454.50	-15.00	-	-	-
-	899	-	-	630.00	-1928.50	-15.00	-	-	-
-	900	-	-	597.50	-1896.00	-15.00	-	-	-
-	901	-	-	597.50	-1928.50	-15.00	-	-	-
-	902	-	-	662.50	-1896.00	-15.00	-	-	-
-	903	-	-	630.00	-1863.50	-15.00	-	-	-
-	904	-	-	662.50	-1863.50	-15.00	-	-	-
-	905	-	-	597.50	-1863.50	-15.00	-	-	-
-	906	-	-	662.50	-1928.50	-15.00	-	-	-
-	907	-	Diaframma rigido	1195.86	-1674.49	260.00	-	-	-
-	908	-	Diaframma rigido	1284.28	-1788.00	448.00	-	-	-
-	909	-	Diaframma rigido	1053.27	-1780.38	580.00	-	-	-
-	910	-	Diaframma rigido	630.00	-1185.00	870.00	-	-	-

Nodo C.	Vincoli					
	Sx	Sy	Sz	Rx	Ry	Rz
	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
1	L	L	L	L	L	L
2	L	L	L	L	L	L
3	L	L	L	L	L	L
4	L	L	L	L	L	L
5	L	L	L	L	L	L
6	L	L	L	L	L	L
7	L	L	L	L	L	L
8	L	L	L	L	L	L
9	L	L	L	L	L	L
10	L	L	L	L	L	L
11	L	L	L	L	L	L
12	L	L	L	L	L	L
13	L	L	L	L	L	L
14	L	L	L	L	L	L
15	L	L	L	L	L	L
16	L	L	L	L	L	L
17	L	L	L	L	L	L
18	L	L	L	L	L	L
19	L	L	L	L	L	L
20	L	L	L	L	L	L
21	L	L	L	L	L	L
22	L	L	L	L	L	L
23	L	L	L	L	L	L
24	L	L	L	L	L	L
25	L	L	L	L	L	L
26	L	L	L	L	L	L
27	L	L	L	L	L	L
28	L	L	L	L	L	L
29	L	L	L	L	L	L
30	L	L	L	L	L	L
31	L	L	L	L	L	L

32	L	L	L	L	L	L
33	L	L	L	L	L	L
34	L	L	L	L	L	L
35	L	L	L	L	L	L
36	L	L	L	L	L	L
37	L	L	L	L	L	L
38	L	L	L	L	L	L
39	L	L	L	L	L	L
40	L	L	L	L	L	L
41	L	L	L	L	L	L
42	L	L	L	L	L	L
43	L	L	L	L	L	L
44	L	L	L	L	L	L
45	L	L	L	L	L	L
46	L	L	L	L	L	L
47	L	L	L	L	L	L
48	L	L	L	L	L	L
49	L	L	L	L	L	L
50	L	L	L	L	L	L
51	L	L	L	L	L	L
52	L	L	L	L	L	L
53	L	L	L	L	L	L
54	L	L	L	L	L	L
55	L	L	L	L	L	L
56	L	L	L	L	L	L
57	L	L	L	L	L	L
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602	L	L	L	L	L	L
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604	L	L	L	L	L	L
605	L	L	L	L	L	L
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607	L	L	L	L	L	L
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612	L	L	L	L	L	L
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619	L	L	L	L	L	L
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621	L	L	L	L	L	L
622	L	L	L	L	L	L
623	L	L	L	L	L	L
624	L	L	L	L	L	L
625	L	L	L	L	L	L
626	L	L	L	L	L	L
627	L	L	L	L	L	L
628	L	L	L	L	L	L
629	L	L	L	L	L	L
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633	L	L	L	L	L	L
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694	L	L	L	L	L	L
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701	L	L	L	L	L	L
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725	L	L	L	L	L	L
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729	L	L	L	L	L	L
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731	L	L	L	L	L	L
732	L	L	L	L	L	L
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734	L	L	L	L	L	L
735	L	L	L	L	L	L
736	L	L	L	L	L	L
737	L	L	L	L	L	L
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739	L	L	L	L	L	L
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742	L	L	L	L	L	L
743	L	L	L	L	L	L
744	L	L	L	L	L	L
745	L	L	L	L	L	L
746	L	L	L	L	L	L
747	L	L	L	L	L	L
748	L	L	L	L	L	L
749	L	L	L	L	L	L
750	L	L	L	L	L	L
751	L	L	L	L	L	L
752	L	L	L	L	L	L
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754	L	L	L	L	L	L
755	L	L	L	L	L	L
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766	L	L	L	L	L	L
767	L	L	L	L	L	L
768	L	L	L	L	L	L
769	L	L	L	L	L	L
770	L	L	L	L	L	L
771	L	L	L	L	L	L
772	L	L	L	L	L	L
773	L	L	L	L	L	L
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775	L	L	L	L	L	L
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786	L	L	L	L	L	L
787	L	L	L	L	L	L
788	L	L	L	L	L	L
789	L	L	L	L	L	L
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799	L	L	L	L	L	L
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811	L	L	L	L	L	L
812	L	L	L	L	L	L
813	L	L	L	L	L	L
814	L	L	L	L	L	L
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827	L	L	L	L	L	L
828	L	L	L	L	L	L
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832	L	L	L	L	L	L
833	L	L	L	L	L	L
834	L	L	L	L	L	L
835	L	L	L	L	L	L
836	L	L	L	L	L	L
837	L	L	L	L	L	L
838	L	L	L	L	L	L
839	L	L	L	L	L	L
840	L	L	L	L	L	L
841	L	L	L	L	L	L
842	L	L	L	L	L	L
843	L	L	L	L	L	L
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845	L	L	L	L	L	L
846	L	L	L	L	L	L
847	L	L	L	L	L	L
848	L	L	L	L	L	L
849	L	L	L	L	L	L
850	L	L	L	L	L	L
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852	L	L	L	L	L	L
853	L	L	L	L	L	L
854	L	L	L	L	L	L
855	L	L	L	L	L	L
856	L	L	L	L	L	L
857	L	L	L	L	L	L
858	L	L	L	L	L	L
859	L	L	L	L	L	L

860	L	L	L	L	L	L
861	L	L	L	L	L	L
862	L	L	L	L	L	L
863	L	L	L	L	L	L
864	L	L	L	L	L	L
865	L	L	L	L	L	L
866	L	L	L	L	L	L
867	L	L	L	L	L	L
868	L	L	L	L	L	L
869	L	L	L	L	L	L
870	L	L	L	L	L	L
871	L	L	L	L	L	L
872	L	L	L	L	L	L
873	L	L	L	L	L	L
874	L	L	L	L	L	L
875	L	L	L	L	L	L
876	L	L	L	L	L	L
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881	L	L	L	L	L	L
882	L	L	L	L	L	L
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885	L	L	L	L	L	L
886	L	L	L	L	L	L
887	L	L	L	L	L	L
888	L	L	L	L	L	L
889	L	L	L	L	L	L
890	L	L	L	L	L	L
891	L	L	L	L	L	L
892	L	L	L	L	L	L
893	L	L	L	L	L	L
894	L	L	L	L	L	L
895	L	L	L	L	L	L
896	L	L	L	L	L	L
897	L	L	L	L	L	L
898	L	L	L	L	L	L
899	L	L	L	L	L	L
900	L	L	L	L	L	L
901	L	L	L	L	L	L
902	L	L	L	L	L	L
903	L	L	L	L	L	L
904	L	L	L	L	L	L
905	L	L	L	L	L	L
906	L	L	L	L	L	L
907	L	L	L	L	L	L
908	L	L	L	L	L	L
909	L	L	L	L	L	L
910	L	L	L	L	L	L

1.6.2 Caratteristiche delle Aste

La tabella seguente riporta tutte le caratteristiche relative alle aste della struttura ed in modo particolare la colonna:

Asta I.	: Etichetta dell'asta di input;
Asta C.	: Numerazione interna dell'asta relativa al modello di calcolo;
Ni	: Nodo iniziale dell'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
Nf	: Nodo finale dell'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
Gruppo	: Numerazione del gruppo di cui l'asta fa parte;
Imp.	: Impalcato di appartenenza dell'asta;
Tipo	: Funzione dell'asta;
Formulaz.	: Formulazione strutturale dell'asta;
Risposta	: Risposta strutturale dell'asta;

Sez.	: Sezione trasversale associata all'asta (vedi "Elenco e caratteristiche delle sezioni trasversali");
Tip. rinf.	: Tipologia rinforzo associata all'asta (vedi "Elenco e caratteristiche delle tipologie di rinforzo");
Disp.	: Dispositivo antisismico associato all'asta (vedi "Elenco e caratteristiche dei dispositivi antisismici");
Link	: Elemento link associato all'asta (vedi "Elenco e caratteristiche degli elementi link");
Cl. serv.	: Classe di servizio (solo per aste in legno);
L	: Lunghezza teorica (nodo-nodo) dell'asta;
Kw1	: Modulo di Winkler in direzione 1 locale;
Kw2	: Modulo di Winkler in direzione 2 locale;
Kw3	: Modulo di Winkler in direzione 3 locale;
Qult	: Carico ultimo;
Z50	: Cedimento 50%;
Tipo	: Coesivo/Incoerente;

Vincoli interni

S1	: Grado di rigidezza (0÷1) o Valore di rigidezza dello spostamento lungo la direzione 1 locale;
S2	: Grado di rigidezza (0÷1) o Valore di rigidezza dello spostamento lungo la direzione 2 locale;
S3	: Grado di rigidezza (0÷1) o Valore di rigidezza dello spostamento lungo la direzione 3 locale;
R1	: Grado di rigidezza (0÷1) o Valore di rigidezza della rotazione intorno alla direzione 1 locale;
R2	: Grado di rigidezza (0÷1) o Valore di rigidezza della rotazione intorno alla direzione 2 locale;
R3	: Grado di rigidezza (0÷1) o Valore di rigidezza della rotazione intorno alla direzione 3 locale;

Asta l.	Asta C.	Ni	Nf	Gruppo	Imp.	Tipo	Formulaz.	Risposta	Sez.	Tip. rinf.	Disp.	Link	Cl. serv.	L [cm]
-	1	1	2	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	2	11	12	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	3	21	22	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	4	31	32	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	5	41	42	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	6	50	51	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	7	60	61	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	8	70	71	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	9	79	80	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	10	89	90	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	11	99	100	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	12	117	118	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	13	127	128	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	14	137	138	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00

-	15	155	156	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	16	165	166	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	22.50
-	17	175	176	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	18	184	185	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	19	193	194	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	20	202	203	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	21	211	212	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	22	220	221	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	23	229	230	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	24	242	243	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	25	251	252	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	26	272	273	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	27	279	280	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	28	286	287	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	29	293	294	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
-	30	300	301	-	1	Palo	Elemento collegamento 2 nodi	lineare	-	-	-	-	-	15.00
Asta 1 (11-1)	31	21	1	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 2 (1-221)	32	1	272	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 3 (6-16)	33	11	31	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 4 (221-6)	34	272	11	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 5 (26-11)	35	50	21	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 6 (11-226)	36	21	279	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00

Asta 7 (16-21)	37	31	41	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 8 (16-31)	38	31	60	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 9 (226-16)	39	279	31	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 10 (21-36)	40	41	70	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 11 (41-26)	41	79	50	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 12 (26-231)	42	50	286	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 13 (31-36)	43	60	70	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 14 (31-46)	44	60	89	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 15 (231-31)	45	286	60	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 16 (36-51)	46	70	99	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 17 (71-41)	47	117	79	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 18 (41-236)	48	79	293	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 19 (46-51)	49	89	99	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 20 (46-76)	50	89	127	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 21 (236-46)	51	293	89	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 22 (66-51)	52	114	99	-	1	Trave	Bernoulli	lineare	2	-	-	-	-	233.00
Asta 23 (61-56)	53	111	108	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	409.00
Asta 24	54	108	114	-	1	Trave	Bernoulli	lineare	2	-	-	-	-	411.00

(56-66)														
Asta 25 (56-86)	55	108	146	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	332.00
Asta 26 (91-61)	56	149	111	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	332.00
Asta 27 (81-66)	57	137	114	-	1	Trave	Bernoulli	lineare	2	-	-	-	-	241.00
Asta 28 (101-71)	58	155	117	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 29 (71-241)	59	117	300	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 30 (76-81)	60	127	137	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 31 (76-106)	61	127	165	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	474.00
Asta 32 (241-76)	62	300	127	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	630.00
Asta 33 (96-81)	63	152	137	-	1	Trave	Bernoulli	lineare	2	-	-	-	-	91.00
Asta 34 (86-91)	64	146	149	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	409.00
Asta 35 (86-96)	65	146	152	-	1	Trave	Bernoulli	lineare	2	-	-	-	-	411.00
Asta 36 (111-96)	66	175	152	-	1	Trave	Bernoulli	lineare	2	-	-	-	-	383.00
Asta 37 (116-101)	67	184	155	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	346.00
Asta 38 (106-111)	68	165	175	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	615.00
Asta 39 (121-106)	69	193	165	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	254.00
Asta 40 (111-141)	70	175	229	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 41 (116-121)	71	184	193	-	1	Collegamento plinti	Bernoulli	lineare	1	-	-	-	-	660.00

Asta 42 (126-116)	72	202	184	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	660.00
Asta 43 (121-136)	73	193	220	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 44 (131-126)	74	211	202	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	660.00
Asta 45 (136-131)	75	220	211	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	330.00
Asta 46 (156-131)	76	251	211	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	489.00
Asta 47 (136-151)	77	220	242	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	489.00
Asta 48 (146-141)	78	238	229	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	330.00
Asta 49 (151-141)	79	242	229	-	1	Collegamento plinti	Bernoulli	lineare	2	-	-	-	-	380.00
Asta 50 (156-146)	80	251	238	-	1	Trave	Bernoulli	lineare	3	-	-	-	-	380.00
Asta 51 (12-2)	81	27	7	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 52 (2-222)	82	7	278	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 53 (7-17)	83	17	37	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 54 (222-7)	84	278	17	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 55 (27-12)	85	56	27	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 56 (12-227)	86	27	285	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 57 (22-17)	87	47	37	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	615.00
Asta 58 (17-32)	88	37	66	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 59	89	285	37	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00

(227-17)														
Asta 60 (37-22)	90	76	47	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	474.00
Asta 61 (42-27)	91	85	56	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 62 (27-232)	92	56	292	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 63 (37-32)	93	76	66	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	615.00
Asta 64 (32-47)	94	66	95	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 65 (232-32)	95	292	66	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 66 (52-37)	96	105	76	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	474.00
Asta 67 (72-42)	97	123	85	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 68 (42-237)	98	85	299	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 69 (52-47)	99	105	95	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	615.00
Asta 70 (47-77)	100	95	133	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 71 (237-47)	101	299	95	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 72 (67-52)	102	115	105	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	233.00
Asta 73 (82-67)	103	143	115	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	241.00
Asta 74 (102-72)	104	161	123	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 75 (72-242)	105	123	306	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 76 (82-77)	106	143	133	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	615.00

Asta 77 (77-107)	107	133	171	-	2	Trave	Bernoulli	lineare	4	-	-	-	-	474.00
Asta 78 (242-77)	108	306	133	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	630.00
Asta 79 (97-82)	109	153	143	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	91.00
Asta 80 (112-97)	110	181	153	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	383.00
Asta 81 (102-117)	111	161	190	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	346.00
Asta 82 (112-107)	112	181	171	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	615.00
Asta 83 (122-107)	113	199	171	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	254.00
Asta 84 (142-112)	114	235	181	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	330.00
Asta 85 (117-122)	115	190	199	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	660.00
Asta 86 (117-127)	116	190	208	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	660.00
Asta 87 (122-137)	117	199	226	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	330.00
Asta 88 (127-132)	118	208	217	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	660.00
Asta 89 (137-132)	119	226	217	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	330.00
Asta 90 (132-157)	120	217	257	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	489.00
Asta 91 (137-152)	121	226	248	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	489.00
Asta 92 (142-147)	122	235	239	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	330.00
Asta 93 (152-142)	123	248	235	-	2	Trave	Bernoulli	lineare	5	-	-	-	-	380.00
Asta 94	124	257	239	-	2	Trave	Bernoulli	lineare	6	-	-	-	-	380.00

(157-147)														
Asta 95 (2-1)	125	7	1	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 96 (7-6)	126	17	11	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 97 (12-11)	127	27	21	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 98 (17-16)	128	37	31	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 99 (22-21)	129	47	41	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 100 (27-26)	130	56	50	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 101 (32-31)	131	66	60	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 102 (37-36)	132	76	70	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 103 (42-41)	133	85	79	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 104 (47-46)	134	95	89	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 105 (52-51)	135	105	99	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 106 (57-56)	136	109	108	-	2	Pilastro	Bernoulli	lineare	8	-	-	-	-	260.00
Asta 107 (62-61)	137	112	111	-	2	Pilastro	Bernoulli	lineare	8	-	-	-	-	260.00
Asta 108 (72-71)	138	123	117	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 109 (77-76)	139	133	127	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 110 (82-81)	140	143	137	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 111 (87-86)	141	147	146	-	2	Pilastro	Bernoulli	lineare	8	-	-	-	-	260.00
Asta 112	142	150	149	-	2	Pilastro	Bernoulli	lineare	8	-	-	-	-	260.00

(92-91)														
Asta 113 (102-101)	143	161	155	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 114 (107-106)	144	171	165	-	2	Pilastro	Bernoulli	lineare	7	-	-	-	-	260.00
Asta 115 (112-111)	145	181	175	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 116 (117-116)	146	190	184	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 117 (122-121)	147	199	193	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 118 (127-126)	148	208	202	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 119 (132-131)	149	217	211	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 120 (137-136)	150	226	220	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 121 (142-141)	151	235	229	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 122 (147-146)	152	239	238	-	2	Pilastro	Bernoulli	lineare	8	-	-	-	-	260.00
Asta 123 (152-151)	153	248	242	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 124 (157-156)	154	257	251	-	2	Pilastro	Bernoulli	lineare	8	-	-	-	-	260.00
Asta 125 (222-221)	155	278	272	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 126 (227-226)	156	285	279	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 127 (232-231)	157	292	286	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 128 (237-236)	158	299	293	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00
Asta 129 (242-241)	159	306	300	-	2	Pilastro	Bernoulli	lineare	2	-	-	-	-	260.00

Asta 130 (68-53)	160	116	106	-	3	Trave	Bernoulli	lineare	9	-	-	-	-	233.00
Asta 131 (63-58)	161	113	110	-	3	Trave	Bernoulli	lineare	10	-	-	-	-	409.00
Asta 132 (58-68)	162	110	116	-	3	Trave	Bernoulli	lineare	10	-	-	-	-	411.00
Asta 133 (88-58)	163	148	110	-	3	Trave	Bernoulli	lineare	10	-	-	-	-	332.00
Asta 134 (93-63)	164	151	113	-	3	Trave	Bernoulli	lineare	10	-	-	-	-	332.00
Asta 135 (83-68)	165	144	116	-	3	Trave	Bernoulli	lineare	9	-	-	-	-	241.00
Asta 136 (98-83)	166	154	144	-	3	Trave	Bernoulli	lineare	9	-	-	-	-	91.00
Asta 137 (88-93)	167	148	151	-	3	Trave	Bernoulli	lineare	10	-	-	-	-	409.00
Asta 138 (98-88)	168	154	148	-	3	Trave	Bernoulli	lineare	10	-	-	-	-	411.00
Asta 139 (113-98)	169	182	154	-	3	Trave	Bernoulli	lineare	9	-	-	-	-	383.00
Asta 140 (143-113)	170	236	182	-	3	Trave	Bernoulli	lineare	9	-	-	-	-	330.00
Asta 141 (3-2)	171	8	7	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 142 (8-7)	172	18	17	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 143 (13-12)	173	28	27	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 144 (18-17)	174	38	37	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 145 (23-22)	175	48	47	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 146 (28-27)	176	57	56	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 147 (33-32)	177	67	66	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00

Asta 148 (38-37)	178	77	76	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 149 (43-42)	179	86	85	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 150 (48-47)	180	96	95	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 151 (53-52)	181	106	105	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 152 (58-57)	182	110	109	-	3	Pilastro	Bernoulli	lineare	8	-	-	-	-	188.00
Asta 153 (63-62)	183	113	112	-	3	Pilastro	Bernoulli	lineare	8	-	-	-	-	188.00
Asta 154 (73-72)	184	124	123	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 155 (78-77)	185	134	133	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 156 (83-82)	186	144	143	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 157 (88-87)	187	148	147	-	3	Pilastro	Bernoulli	lineare	8	-	-	-	-	188.00
Asta 158 (93-92)	188	151	150	-	3	Pilastro	Bernoulli	lineare	8	-	-	-	-	188.00
Asta 159 (103-102)	189	162	161	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 160 (108-107)	190	172	171	-	3	Pilastro	Bernoulli	lineare	7	-	-	-	-	188.00
Asta 161 (113-112)	191	182	181	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 162 (118-117)	192	191	190	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 163 (123-122)	193	200	199	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 164 (128-127)	194	209	208	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 165	195	218	217	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00

(133-132)														
Asta 166 (138-137)	196	227	226	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 167 (143-142)	197	236	235	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 168 (148-147)	198	240	239	-	3	Pilastro	Bernoulli	lineare	8	-	-	-	-	188.00
Asta 169 (153-152)	199	249	248	-	3	Pilastro	Bernoulli	lineare	11	-	-	-	-	188.00
Asta 170 (158-157)	200	258	257	-	3	Pilastro	Bernoulli	lineare	8	-	-	-	-	188.00
Asta 171 (4-9)	201	9	19	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	1260.00
Asta 172 (14-4)	202	29	9	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 173 (9-19)	203	19	39	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 174 (29-14)	204	58	29	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 175 (24-19)	205	49	39	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	615.00
Asta 176 (19-34)	206	39	68	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 177 (39-24)	207	78	49	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 178 (44-29)	208	87	58	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 179 (39-34)	209	78	68	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	615.00
Asta 180 (34-49)	210	68	97	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 181 (54-39)	211	107	78	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 182 (74-44)	212	125	87	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 183	213	107	97	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	615.00

(54-49)														
Asta 184 (49-79)	214	97	135	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 185 (84-54)	215	145	107	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 186 (104-74)	216	163	125	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 187 (84-79)	217	145	135	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	615.00
Asta 188 (79-109)	218	135	173	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 189 (114-84)	219	183	145	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	474.00
Asta 190 (119-104)	220	192	163	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	346.00
Asta 191 (114-109)	221	183	173	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	615.00
Asta 192 (109-124)	222	173	201	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	254.00
Asta 193 (144-114)	223	237	183	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	330.00
Asta 194 (124-119)	224	201	192	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	660.00
Asta 195 (119-129)	225	192	210	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	660.00
Asta 196 (124-139)	226	201	228	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	330.00
Asta 197 (129-134)	227	210	219	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	660.00
Asta 198 (139-134)	228	228	219	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	330.00
Asta 199 (134-159)	229	219	259	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	489.00
Asta 200 (139-154)	230	228	250	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	489.00

Asta 201 (149-144)	231	241	237	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	330.00
Asta 202 (154-144)	232	250	237	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	380.00
Asta 203 (159-149)	233	259	241	-	4	Trave	Bernoulli	lineare	12	-	-	-	-	380.00
Asta 204 (4-3)	234	9	8	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 205 (9-8)	235	19	18	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 206 (14-13)	236	29	28	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 207 (19-18)	237	39	38	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 208 (24-23)	238	49	48	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 209 (29-28)	239	58	57	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 210 (34-33)	240	68	67	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 211 (39-38)	241	78	77	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 212 (44-43)	242	87	86	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 213 (49-48)	243	97	96	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 214 (54-53)	244	107	106	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 215 (74-73)	245	125	124	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 216 (79-78)	246	135	134	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 217 (84-83)	247	145	144	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 218 (104-103)	248	163	162	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00

Asta 219 (109-108)	249	173	172	-	4	Pilastro	Bernoulli	lineare	7	-	-	-	-	132.00
Asta 220 (114-113)	250	183	182	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 221 (119-118)	251	192	191	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 222 (124-123)	252	201	200	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 223 (129-128)	253	210	209	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 224 (134-133)	254	219	218	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 225 (139-138)	255	228	227	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 226 (144-143)	256	237	236	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 227 (149-148)	257	241	240	-	4	Pilastro	Bernoulli	lineare	8	-	-	-	-	132.00
Asta 228 (154-153)	258	250	249	-	4	Pilastro	Bernoulli	lineare	11	-	-	-	-	132.00
Asta 229 (159-158)	259	259	258	-	4	Pilastro	Bernoulli	lineare	8	-	-	-	-	132.00
Asta 230 (5-10)	260	10	20	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	1260.00
Asta 231 (15-5)	261	30	10	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 232 (5-165)	262	10	260	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 233 (20-10)	263	40	20	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 234 (10-175)	264	20	262	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 235 (15-20)	265	30	40	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	1260.00
Asta 236	266	59	30	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00

(30-15)														
Asta 237 (15-170)	267	30	261	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 238 (35-20)	268	69	40	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 239 (20-180)	269	40	263	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 240 (30-35)	270	59	69	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	1260.00
Asta 241 (45-30)	271	88	59	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 242 (30-190)	272	59	265	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 243 (50-35)	273	98	69	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 244 (35-185)	274	69	264	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 245 (45-50)	275	88	98	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	1260.00
Asta 246 (75-45)	276	126	88	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 247 (45-195)	277	88	266	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 248 (80-50)	278	136	98	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 249 (50-200)	279	98	267	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 250 (75-80)	280	126	136	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	1260.00
Asta 251 (105-75)	281	164	126	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00
Asta 252 (75-205)	282	126	268	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 253 (110-80)	283	174	136	-	5	Trave	Bernoulli	lineare	2	-	-	-	-	474.00

Asta 254 (80-210)	284	136	269	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 255 (105-110)	285	164	174	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	1260.00
Asta 256 (105-215)	286	164	270	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 257 (110-220)	287	174	271	-	5	Trave	Bernoulli	lineare	13	-	-	-	-	130.00
Asta 258 (5-4)	288	10	9	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 259 (10-9)	289	20	19	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 260 (15-14)	290	30	29	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 261 (20-19)	291	40	39	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 262 (30-29)	292	59	58	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 263 (35-34)	293	69	68	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 264 (45-44)	294	88	87	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 265 (50-49)	295	98	97	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 266 (75-74)	296	126	125	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 267 (80-79)	297	136	135	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 268 (105-104)	298	164	163	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00
Asta 269 (110-109)	299	174	173	-	5	Pilastro	Bernoulli	lineare	7	-	-	-	-	290.00

Asta C.	Kw1 [daN/cm³]	Kw2 [daN/cm³]	Kw3 [daN/cm³]	Qult	Z50	Tipo
53	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
55	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
56	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
64	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
78	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-

80	2.50 (*)	2.50 (*)	5.00 (*)	-	-	-
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(*) Valore medio della distribuzione variabile con la profondità

Vincoli Interni per grado/valore
Tutte le aste presenti nel modello risultano perfettamente incastrate

1.6.3 Caratteristiche delle Piastre

La tabella seguente riporta tutte le caratteristiche relative alle piastre della struttura:

Piastra I.	: Etichetta della piastra di input;
Piastra C.	: Numerazione interna della piastra relativa al modello di calcolo;
Imp.	: Impalcato al quale appartiene la piastra;
Nodi	: Nodi di calcolo del contorno della piastra (vedi "Nodo C." in "Caratteristiche dei Nodi");
Gruppo	: Numerazione del gruppo di cui la piastra fa parte;
Tipo elem.	: Tipo di elemento (parete o piastra);
Kw1	: Modulo di Winkler in direzione 1 locale;
Kw2	: Modulo di Winkler in direzione 2 locale;
Kw3	: Modulo di Winkler in direzione 3 locale;
Qult	: Carico ultimo;
Z50	: Cedimento 50%;
Tipo	: Coesivo/Incoerente;

Piastra I.	Piastra C.	Imp.	Nodi	Gruppo	Tipo elem.
Plinto Nodo 1	1	-	3 - 4 - 5 - 6	-	Corpo plinto
Plinto Nodo 6	2	-	13 - 14 - 15 - 16	-	Corpo plinto
Plinto Nodo 11	3	-	23 - 24 - 25 - 26	-	Corpo plinto
Plinto Nodo 16	4	-	33 - 34 - 35 - 36	-	Corpo plinto
Plinto Nodo 21	5	-	43 - 44 - 45 - 46	-	Corpo plinto
Plinto Nodo 26	6	-	52 - 53 - 54 - 55	-	Corpo plinto
Plinto Nodo 31	7	-	62 - 63 - 64 - 65	-	Corpo plinto
Plinto Nodo 36	8	-	72 - 73 - 74 - 75	-	Corpo plinto
Plinto Nodo 41	9	-	81 - 82 - 83 - 84	-	Corpo plinto
Plinto Nodo 46	10	-	91 - 92 - 93 - 94	-	Corpo plinto
Plinto Nodo 51	11	-	101 - 102 - 103 - 104	-	Corpo plinto
Plinto Nodo 71	12	-	119 - 120 - 121 - 122	-	Corpo plinto
Plinto Nodo 76	13	-	129 - 130 - 131 - 132	-	Corpo plinto
Plinto Nodo 81	14	-	139 - 140 - 141 - 142	-	Corpo plinto
Plinto Nodo 101	15	-	157 - 158 - 159 - 160	-	Corpo plinto
Plinto Nodo 106	16	-	167 - 168 - 169 - 170	-	Corpo plinto
Plinto Nodo 111	17	-	177 - 178 - 179 - 180	-	Corpo plinto
Plinto Nodo 116	18	-	186 - 187 - 188 - 189	-	Corpo plinto
Plinto Nodo 121	19	-	195 - 196 - 197 - 198	-	Corpo plinto
Plinto Nodo 126	20	-	204 - 205 - 206 - 207	-	Corpo plinto
Plinto Nodo 131	21	-	213 - 214 - 215 - 216	-	Corpo plinto
Plinto Nodo 136	22	-	222 - 223 - 224 - 225	-	Corpo plinto
Plinto Nodo 141	23	-	231 - 232 - 233 - 234	-	Corpo plinto
Plinto Nodo 151	24	-	244 - 245 - 246 - 247	-	Corpo plinto
Plinto Nodo 156	25	-	253 - 254 - 255 - 256	-	Corpo plinto
Plinto Nodo 221	26	-	274 - 275 - 276 - 277	-	Corpo plinto
Plinto Nodo 226	27	-	281 - 282 - 283 - 284	-	Corpo plinto
Plinto Nodo 231	28	-	288 - 289 - 290 - 291	-	Corpo plinto
Plinto Nodo 236	29	-	295 - 296 - 297 - 298	-	Corpo plinto
Plinto Nodo 241	30	-	302 - 303 - 304 - 305	-	Corpo plinto

Piastra C.	Kw1 [daN/cm³]	Kw2 [daN/cm³]	Kw3 [daN/cm³]	Qult	Z50	Tipo
1	2.50	2.50	1.25	-	-	-
2	2.50	2.50	1.25	-	-	-
3	2.50	2.50	1.25	-	-	-
4	2.50	2.50	1.25	-	-	-
5	2.50	2.50	1.25	-	-	-

6	2.50	2.50	1.25	-	-	-
7	2.50	2.50	1.25	-	-	-
8	2.50	2.50	1.25	-	-	-
9	2.50	2.50	1.25	-	-	-
10	2.50	2.50	1.25	-	-	-
11	2.50	2.50	1.25	-	-	-
12	2.50	2.50	1.25	-	-	-
13	2.50	2.50	1.25	-	-	-
14	2.50	2.50	1.25	-	-	-
15	2.50	2.50	1.25	-	-	-
16	2.50	2.50	1.25	-	-	-
17	2.50	2.50	1.25	-	-	-
18	2.50	2.50	1.25	-	-	-
19	2.50	2.50	1.25	-	-	-
20	2.50	2.50	1.25	-	-	-
21	2.50	2.50	1.25	-	-	-
22	2.50	2.50	1.25	-	-	-
23	2.50	2.50	1.25	-	-	-
24	2.50	2.50	1.25	-	-	-
25	2.50	2.50	1.25	-	-	-
26	2.50	2.50	1.25	-	-	-
27	2.50	2.50	1.25	-	-	-
28	2.50	2.50	1.25	-	-	-
29	2.50	2.50	1.25	-	-	-
30	2.50	2.50	1.25	-	-	-

La tabella seguente riporta le caratteristiche delle sezioni trasversali associate alle piastre:

N. strati : Numero totale degli strati della piastra;
 Spess. tot. : Spessore totale della piastra;
 Tip. : Tipologia associata alla piastra (vedi "Elenco e caratteristiche delle tipologie di piastra");
 Materiale : Materiale della piastra;
 Classe serv. : Classe di servizio (solo per elementi in legno);
 E : Modulo Young;
 n : Coefficiente di Poisson;
 ρ : Densità;

Piastra C.	N. strati	Spess. tot. [cm]	Tip.	Materiale	Cl.serv.	E [N/mm ²]	n	ρ [Kg/m ³]
1	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
2	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
3	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
4	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
5	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
6	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
7	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
8	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
9	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
10	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
11	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
12	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
13	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
14	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
15	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
16	1	45.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
17	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
18	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
19	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
20	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
21	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
22	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
23	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
24	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
25	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
26	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
27	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009
28	1	30.00	-	Cl.s esist	-	29961.951	0.15	2.55E-009

29	1	30.00	-	Cls esist	-	29961.951	0.15	2.55E-009
30	1	30.00	-	Cls esist	-	29961.951	0.15	2.55E-009

3.6.4 Caratteristiche dei Solai

La tabella seguente riporta tutte le caratteristiche relative ai solai della struttura:

Solaio : Etichetta del solaio di input;
 Num. : Numero identificativo del solaio;
 Nodi : Nodi ai quali appartiene il solaio (vedi "Nodo I." in "Caratteristiche dei Nodi");
 Tipologia : Tipologia solaio associata (vedi "Elenco e caratteristiche delle tipologie di solaio");
 Tip. rinforzo : Tipologia rinforzo associato al solaio (vedi "Elenco e caratteristiche delle tipologie di rinforzo");
 Tipo : Tipo di solaio (solaio o balcone);

Solaio	Num.	Nodi	Tipologia	Tip. rinf.	Tipo
Solaio 1 (117-122-137-132-127)	1	117 - 122 - 137 - 132 - 127	2	-	solaio
Solaio 2 (122-107-112-142-152-137)	2	122 - 107 - 112 - 142 - 152 - 137	2	-	solaio
Solaio 3 (82-112-107-77)	3	82 - 112 - 107 - 77	2	-	solaio
Solaio 4 (52-67-82-77-47)	4	52 - 67 - 82 - 77 - 47	2	-	solaio
Solaio 5 (37-52-47-32)	5	37 - 52 - 47 - 32	2	-	solaio
Solaio 6 (22-37-32-17)	6	22 - 37 - 32 - 17	2	-	solaio
Solaio 7 (2-222-7-17-227-12)	7	2 - 222 - 7 - 17 - 227 - 12	2	-	solaio
Solaio 8 (12-227-17-32-232-27)	8	12 - 227 - 17 - 32 - 232 - 27	2	-	solaio
Solaio 9 (27-232-32-47-237-42)	9	27 - 232 - 32 - 47 - 237 - 42	2	-	solaio
Solaio 10 (42-237-47-77-242-72)	10	42 - 237 - 47 - 77 - 242 - 72	2	-	solaio
Solaio 11 (72-242-77-107-122-117-102)	11	72 - 242 - 77 - 107 - 122 - 117 - 102	2	-	solaio
Solaio 12 (58-88-98-83-68)	12	58 - 88 - 98 - 83 - 68	2	-	solaio
Solaio 13 (63-93-88-58)	13	63 - 93 - 88 - 58	2	-	solaio
Solaio 14 (24-39-34-19)	14	24 - 39 - 34 - 19	2	-	solaio
Solaio 15 (39-54-49-34)	15	39 - 54 - 49 - 34	2	-	solaio
Solaio 16 (54-84-79-49)	16	54 - 84 - 79 - 49	2	-	solaio
Solaio 17 (84-114-109-79)	17	84 - 114 - 109 - 79	2	-	solaio
Solaio 18 (109-114-144-154-139-124)	18	109 - 114 - 144 - 154 - 139 - 124	2	-	solaio
Solaio 19 (139-154-144-149-159-134)	19	139 - 154 - 144 - 149 - 159 - 134	2	-	solaio
Solaio 20 (124-139-134-129-119)	20	124 - 139 - 134 - 129 - 119	2	-	solaio
Solaio 21 (5-10-20-15)	21	5 - 10 - 20 - 15	2	-	solaio
Solaio 22 (15-20-35-30)	22	15 - 20 - 35 - 30	2	-	solaio
Solaio 23 (30-35-50-45)	23	30 - 35 - 50 - 45	2	-	solaio
Solaio 24 (45-50-80-75)	24	45 - 50 - 80 - 75	2	-	solaio
Solaio 25 (75-80-110-105)	25	75 - 80 - 110 - 105	2	-	solaio
Solaio 26 (5-15-170-165)	26	5 - 15 - 170 - 165	2	-	solaio
Solaio 27 (20-10-175-180)	27	20 - 10 - 175 - 180	2	-	solaio
Solaio 28 (170-15-30-190)	28	170 - 15 - 30 - 190	2	-	solaio
Solaio 29 (35-20-180-185)	29	35 - 20 - 180 - 185	2	-	solaio
Solaio 30 (190-30-45-195)	30	190 - 30 - 45 - 195	2	-	solaio
Solaio 31 (50-35-185-200)	31	50 - 35 - 185 - 200	2	-	solaio
Solaio 32 (195-45-75-205)	32	195 - 45 - 75 - 205	2	-	solaio
Solaio 33 (80-50-200-210)	33	80 - 50 - 200 - 210	2	-	solaio
Solaio 34 (205-75-105-215)	34	205 - 75 - 105 - 215	2	-	solaio
Solaio 35 (110-80-210-220)	35	110 - 80 - 210 - 220	2	-	solaio
Balcone 63 (63-58)	36	63 - 58	1	-	balcone
Balcone 64 (58-68)	37	58 - 68	1	-	balcone
Balcone 67 (88-93)	38	88 - 93	1	-	balcone
Balcone 68 (98-88)	39	98 - 88	1	-	balcone
Balcone 71 (4-9)	40	4 - 9	1	-	balcone
Balcone 73 (14-4)	41	14 - 4	1	-	balcone
Balcone 75 (9-19)	42	9 - 19	1	-	balcone
Balcone 77 (29-14)	43	29 - 14	1	-	balcone
Balcone 79 (24-19)	44	24 - 19	1	-	balcone
Balcone 81 (39-24)	45	39 - 24	1	-	balcone
Balcone 82 (44-29)	46	44 - 29	1	-	balcone
Balcone 85 (54-39)	47	54 - 39	1	-	balcone
Balcone 86 (74-44)	48	74 - 44	1	-	balcone
Balcone 89 (84-54)	49	84 - 54	1	-	balcone

Balcone 90 (104-74)	50	104 - 74	1	-	balcone
Balcone 93 (119-104)	51	119 - 104	1	-	balcone
Balcone 97 (119-129)	52	119 - 129	1	-	balcone
Balcone 98 (129-134)	53	129 - 134	1	-	balcone
Balcone 99 (134-159)	54	134 - 159	2	-	balcone
Balcone 100 (159-149)	55	159 - 149	1	-	balcone

3.6.5 Caratteristiche delle Tamponature

La tabella seguente riporta tutte le caratteristiche relative alle tamponature della struttura:

Tamponatura : Etichetta della tamponatura di input;
 Num. : Numero identificativo della tamponatura;
 Nodi : Nodi ai quali appartiene la tamponatura (vedi "Nodo I." in "Caratteristiche dei Nodi");
 Tipologia : Tipologia tamponatura associata (vedi "Elenco e caratteristiche delle tamponature");
 Tipo : Tipo di tamponatura (tamponatura o parapetto);

Tamponatura	Num.	Nodi	Tipologia	Tipo
Tamponatura 36 (2-3-4-14-13-12)	1	2 - 3 - 4 - 14 - 13 - 12	Tamp_1	tamponatura
Tamponatura 37 (17-18-19-9-8-7)	2	17 - 18 - 19 - 9 - 8 - 7	Tamp_1	tamponatura
Tamponatura 38 (12-13-14-29-28-27)	3	12 - 13 - 14 - 29 - 28 - 27	Tamp_1	tamponatura
Tamponatura 39 (17-18-19-24-23-22)	4	17 - 18 - 19 - 24 - 23 - 22	Tamp_1	tamponatura
Tamponatura 40 (32-33-34-19-18-17)	5	32 - 33 - 34 - 19 - 18 - 17	Tamp_1	tamponatura
Tamponatura 41 (22-23-24-39-38-37)	6	22 - 23 - 24 - 39 - 38 - 37	Tamp_1	tamponatura
Tamponatura 42 (27-28-29-44-43-42)	7	27 - 28 - 29 - 44 - 43 - 42	Tamp_1	tamponatura
Tamponatura 43 (47-48-49-34-33-32)	8	47 - 48 - 49 - 34 - 33 - 32	Tamp_1	tamponatura
Tamponatura 44 (37-38-39-54-53-52)	9	37 - 38 - 39 - 54 - 53 - 52	Tamp_1	tamponatura
Tamponatura 45 (42-43-44-74-73-72)	10	42 - 43 - 44 - 74 - 73 - 72	Tamp_1	tamponatura
Tamponatura 46 (77-78-79-49-48-47)	11	77 - 78 - 79 - 49 - 48 - 47	Tamp_1	tamponatura
Tamponatura 47 (52-53-68-67)	12	52 - 53 - 68 - 67	Tamp_1	tamponatura
Tamponatura 48 (67-68-83-82)	13	67 - 68 - 83 - 82	Tamp_1	tamponatura
Tamponatura 49 (72-73-74-104-103-102)	14	72 - 73 - 74 - 104 - 103 - 102	Tamp_1	tamponatura
Tamponatura 50 (107-108-109-79-78-77)	15	107 - 108 - 109 - 79 - 78 - 77	Tamp_1	tamponatura
Tamponatura 51 (82-83-98-97)	16	82 - 83 - 98 - 97	Tamp_1	tamponatura
Tamponatura 52 (97-98-113-112)	17	97 - 98 - 113 - 112	Tamp_1	tamponatura
Tamponatura 53 (117-118-119-104-103-102)	18	117 - 118 - 119 - 104 - 103 - 102	Tamp_1	tamponatura
Tamponatura 54 (107-108-109-124-123-122)	19	107 - 108 - 109 - 124 - 123 - 122	Tamp_1	tamponatura
Tamponatura 55 (112-113-143-142)	20	112 - 113 - 143 - 142	Tamp_2	tamponatura
Tamponatura 56 (122-123-124-119-118-117)	21	122 - 123 - 124 - 119 - 118 - 117	Tamp_1	tamponatura
Tamponatura 57 (127-128-129-119-118-117)	22	127 - 128 - 129 - 119 - 118 - 117	Tamp_2	tamponatura
Tamponatura 58 (132-133-134-129-128-127)	23	132 - 133 - 134 - 129 - 128 - 127	Tamp_2	tamponatura
Tamponatura 59 (132-133-134-139-138-137)	24	132 - 133 - 134 - 139 - 138 - 137	Tamp_2	tamponatura
Tamponatura 60 (152-153-154-139-138-137)	25	152 - 153 - 154 - 139 - 138 - 137	Tamp_2	tamponatura
Tamponatura 61 (142-143-144-154-153-152)	26	142 - 143 - 144 - 154 - 153 - 152	Tamp_2	tamponatura
Tamponatura 62 (53-54-55-70-69-68)	27	53 - 54 - 55 - 70 - 69 - 68	Tamp_1	tamponatura
Tamponatura 65 (68-69-70-85-84-83)	28	68 - 69 - 70 - 85 - 84 - 83	Tamp_2	tamponatura
Tamponatura 66 (83-84-85-100-99-98)	29	83 - 84 - 85 - 100 - 99 - 98	Tamp_1	tamponatura
Tamponatura 69 (98-99-100-115-114-113)	30	98 - 99 - 100 - 115 - 114 - 113	Tamp_1	tamponatura
Tamponatura 70 (113-114-144-143)	31	113 - 114 - 144 - 143	Tamp_2	tamponatura
Tamponatura 72 (9-10-5-4)	32	9 - 10 - 5 - 4	Tamp_1	tamponatura
Tamponatura 74 (4-5-15-14)	33	4 - 5 - 15 - 14	Tamp_1	tamponatura
Tamponatura 76 (19-20-10-9)	34	19 - 20 - 10 - 9	Tamp_1	tamponatura
Tamponatura 78 (14-15-30-29)	35	14 - 15 - 30 - 29	Tamp_1	tamponatura
Tamponatura 80 (34-35-20-19)	36	34 - 35 - 20 - 19	Tamp_1	tamponatura
Tamponatura 83 (29-30-45-44)	37	29 - 30 - 45 - 44	Tamp_1	tamponatura
Tamponatura 84 (49-50-35-34)	38	49 - 50 - 35 - 34	Tamp_1	tamponatura
Tamponatura 87 (44-45-75-74)	39	44 - 45 - 75 - 74	Tamp_1	tamponatura
Tamponatura 88 (79-80-50-49)	40	79 - 80 - 50 - 49	Tamp_1	tamponatura
Tamponatura 91 (74-75-105-104)	41	74 - 75 - 105 - 104	Tamp_1	tamponatura
Tamponatura 92 (109-110-80-79)	42	109 - 110 - 80 - 79	Tamp_1	tamponatura
Tamponatura 94 (104-105-120-119)	43	104 - 105 - 120 - 119	Tamp_1	tamponatura
Tamponatura 95 (124-125-110-109)	44	124 - 125 - 110 - 109	Tamp_1	tamponatura
Tamponatura 96 (119-120-125-124)	45	119 - 120 - 125 - 124	Tamp_1	tamponatura

3.7 Carichi sulla Struttura

3.7.1 Tipologie carichi applicati

3.7.1.1 Carichi predefiniti Aste

Nel presente paragrafo sono riportate per tipologia i carichi tipici applicati alle aste. I valori riportati verranno utilizzati per calcolare i carichi effettivi applicati al modello riportati nei paragrafi “Carichi locali sulle aste” e “Carichi globali sulle aste”.

Oltre a questi carichi sono stati considerati tutti i carichi trasferiti da elementi strutturali e non strutturali secondari come solai, balconi, pannelli, tamponature.

Tipologia : Nome della tipologia di carico;
 Azione : Azione di carico utilizzata per assegnare il carico (vedi “Azione” in “Azioni di carico elementari”);
 Q : Valore del carico di superficie applicato alla proiezione in pianta dell’asta;

Tipologia	Sovraccarico permanente		Incidenza tramezzi		Carico d’esercizio	
	Azione	Q [kN/m ²]	Azione	Q [kN/m ²]	Azione	Q [kN/m ²]
Carico asta	G2	1.50	G2	1.00	Q ese	5.00

Asta : Numero dell’asta (vedi “Asta C.” in “Caratteristiche delle Aste”);
 Imp. : Impalcato al quale appartiene l’asta;
 Nodi : Nodi ai quali appartiene l’asta (vedi “Nodo C.” in “Caratteristiche dei Nodi”);
 Tipologia : Nome della tipologia di carico;

Asta	Imp.	Nodi	Tipologia
31	1	21 - 1	Carico asta
32	1	1 - 272	Carico asta
33	1	11 - 31	Carico asta
34	1	272 - 11	Carico asta
35	1	50 - 21	Carico asta
36	1	21 - 279	Carico asta
37	1	31 - 41	Carico asta
38	1	31 - 60	Carico asta
39	1	279 - 31	Carico asta
40	1	41 - 70	Carico asta
41	1	79 - 50	Carico asta
42	1	50 - 286	Carico asta
43	1	60 - 70	Carico asta
44	1	60 - 89	Carico asta
45	1	286 - 60	Carico asta
46	1	70 - 99	Carico asta
47	1	117 - 79	Carico asta
48	1	79 - 293	Carico asta
49	1	89 - 99	Carico asta
50	1	89 - 127	Carico asta
51	1	293 - 89	Carico asta
52	1	114 - 99	Carico asta
53	1	111 - 108	Carico asta
54	1	108 - 114	Carico asta
55	1	108 - 146	Carico asta
56	1	149 - 111	Carico asta
57	1	137 - 114	Carico asta
58	1	155 - 117	Carico asta
59	1	117 - 300	Carico asta
60	1	127 - 137	Carico asta
61	1	127 - 165	Carico asta
62	1	300 - 127	Carico asta
63	1	152 - 137	Carico asta
64	1	146 - 149	Carico asta
65	1	146 - 152	Carico asta

66	1	175 - 152	Carico asta
67	1	184 - 155	Carico asta
68	1	165 - 175	Carico asta
69	1	193 - 165	Carico asta
70	1	175 - 229	Carico asta
71	1	184 - 193	Carico asta
72	1	202 - 184	Carico asta
73	1	193 - 220	Carico asta
74	1	211 - 202	Carico asta
75	1	220 - 211	Carico asta
76	1	251 - 211	Carico asta
77	1	220 - 242	Carico asta
78	1	238 - 229	Carico asta
79	1	242 - 229	Carico asta
80	1	251 - 238	Carico asta
81	2	27 - 7	Carico asta
82	2	7 - 278	Carico asta
83	2	17 - 37	Carico asta
84	2	278 - 17	Carico asta
85	2	56 - 27	Carico asta
86	2	27 - 285	Carico asta
87	2	47 - 37	Carico asta
88	2	37 - 66	Carico asta
89	2	285 - 37	Carico asta
90	2	76 - 47	Carico asta
91	2	85 - 56	Carico asta
92	2	56 - 292	Carico asta
93	2	76 - 66	Carico asta
94	2	66 - 95	Carico asta
95	2	292 - 66	Carico asta
96	2	105 - 76	Carico asta
97	2	123 - 85	Carico asta
98	2	85 - 299	Carico asta
99	2	105 - 95	Carico asta
100	2	95 - 133	Carico asta
101	2	299 - 95	Carico asta
102	2	115 - 105	Carico asta
103	2	143 - 115	Carico asta
104	2	161 - 123	Carico asta
105	2	123 - 306	Carico asta
106	2	143 - 133	Carico asta
107	2	133 - 171	Carico asta
108	2	306 - 133	Carico asta
109	2	153 - 143	Carico asta
110	2	181 - 153	Carico asta
111	2	161 - 190	Carico asta
112	2	181 - 171	Carico asta
113	2	199 - 171	Carico asta
114	2	235 - 181	Carico asta
115	2	190 - 199	Carico asta
116	2	190 - 208	Carico asta
117	2	199 - 226	Carico asta
118	2	208 - 217	Carico asta
119	2	226 - 217	Carico asta
120	2	217 - 257	Carico asta
121	2	226 - 248	Carico asta
122	2	235 - 239	Carico asta
123	2	248 - 235	Carico asta
124	2	257 - 239	Carico asta
125	2	7 - 1	Carico asta
126	2	17 - 11	Carico asta
127	2	27 - 21	Carico asta
128	2	37 - 31	Carico asta
129	2	47 - 41	Carico asta
130	2	56 - 50	Carico asta
131	2	66 - 60	Carico asta
132	2	76 - 70	Carico asta
133	2	85 - 79	Carico asta
134	2	95 - 89	Carico asta

135	2	105 - 99	Carico asta
136	2	109 - 108	Carico asta
137	2	112 - 111	Carico asta
138	2	123 - 117	Carico asta
139	2	133 - 127	Carico asta
140	2	143 - 137	Carico asta
141	2	147 - 146	Carico asta
142	2	150 - 149	Carico asta
143	2	161 - 155	Carico asta
144	2	171 - 165	Carico asta
145	2	181 - 175	Carico asta
146	2	190 - 184	Carico asta
147	2	199 - 193	Carico asta
148	2	208 - 202	Carico asta
149	2	217 - 211	Carico asta
150	2	226 - 220	Carico asta
151	2	235 - 229	Carico asta
152	2	239 - 238	Carico asta
153	2	248 - 242	Carico asta
154	2	257 - 251	Carico asta
155	2	278 - 272	Carico asta
156	2	285 - 279	Carico asta
157	2	292 - 286	Carico asta
158	2	299 - 293	Carico asta
159	2	306 - 300	Carico asta
160	3	116 - 106	Carico asta
161	3	113 - 110	Carico asta
162	3	110 - 116	Carico asta
163	3	148 - 110	Carico asta
164	3	151 - 113	Carico asta
165	3	144 - 116	Carico asta
166	3	154 - 144	Carico asta
167	3	148 - 151	Carico asta
168	3	154 - 148	Carico asta
169	3	182 - 154	Carico asta
170	3	236 - 182	Carico asta
171	3	8 - 7	Carico asta
172	3	18 - 17	Carico asta
173	3	28 - 27	Carico asta
174	3	38 - 37	Carico asta
175	3	48 - 47	Carico asta
176	3	57 - 56	Carico asta
177	3	67 - 66	Carico asta
178	3	77 - 76	Carico asta
179	3	86 - 85	Carico asta
180	3	96 - 95	Carico asta
181	3	106 - 105	Carico asta
182	3	110 - 109	Carico asta
183	3	113 - 112	Carico asta
184	3	124 - 123	Carico asta
185	3	134 - 133	Carico asta
186	3	144 - 143	Carico asta
187	3	148 - 147	Carico asta
188	3	151 - 150	Carico asta
189	3	162 - 161	Carico asta
190	3	172 - 171	Carico asta
191	3	182 - 181	Carico asta
192	3	191 - 190	Carico asta
193	3	200 - 199	Carico asta
194	3	209 - 208	Carico asta
195	3	218 - 217	Carico asta
196	3	227 - 226	Carico asta
197	3	236 - 235	Carico asta
198	3	240 - 239	Carico asta
199	3	249 - 248	Carico asta
200	3	258 - 257	Carico asta
201	4	9 - 19	Carico asta
202	4	29 - 9	Carico asta
203	4	19 - 39	Carico asta

204	4	58 - 29	Carico asta
205	4	49 - 39	Carico asta
206	4	39 - 68	Carico asta
207	4	78 - 49	Carico asta
208	4	87 - 58	Carico asta
209	4	78 - 68	Carico asta
210	4	68 - 97	Carico asta
211	4	107 - 78	Carico asta
212	4	125 - 87	Carico asta
213	4	107 - 97	Carico asta
214	4	97 - 135	Carico asta
215	4	145 - 107	Carico asta
216	4	163 - 125	Carico asta
217	4	145 - 135	Carico asta
218	4	135 - 173	Carico asta
219	4	183 - 145	Carico asta
220	4	192 - 163	Carico asta
221	4	183 - 173	Carico asta
222	4	173 - 201	Carico asta
223	4	237 - 183	Carico asta
224	4	201 - 192	Carico asta
225	4	192 - 210	Carico asta
226	4	201 - 228	Carico asta
227	4	210 - 219	Carico asta
228	4	228 - 219	Carico asta
229	4	219 - 259	Carico asta
230	4	228 - 250	Carico asta
231	4	241 - 237	Carico asta
232	4	250 - 237	Carico asta
233	4	259 - 241	Carico asta
234	4	9 - 8	Carico asta
235	4	19 - 18	Carico asta
236	4	29 - 28	Carico asta
237	4	39 - 38	Carico asta
238	4	49 - 48	Carico asta
239	4	58 - 57	Carico asta
240	4	68 - 67	Carico asta
241	4	78 - 77	Carico asta
242	4	87 - 86	Carico asta
243	4	97 - 96	Carico asta
244	4	107 - 106	Carico asta
245	4	125 - 124	Carico asta
246	4	135 - 134	Carico asta
247	4	145 - 144	Carico asta
248	4	163 - 162	Carico asta
249	4	173 - 172	Carico asta
250	4	183 - 182	Carico asta
251	4	192 - 191	Carico asta
252	4	201 - 200	Carico asta
253	4	210 - 209	Carico asta
254	4	219 - 218	Carico asta
255	4	228 - 227	Carico asta
256	4	237 - 236	Carico asta
257	4	241 - 240	Carico asta
258	4	250 - 249	Carico asta
259	4	259 - 258	Carico asta
260	5	10 - 20	Carico asta
261	5	30 - 10	Carico asta
262	5	10 - 260	Carico asta
263	5	40 - 20	Carico asta
264	5	20 - 262	Carico asta
265	5	30 - 40	Carico asta
266	5	59 - 30	Carico asta
267	5	30 - 261	Carico asta
268	5	69 - 40	Carico asta
269	5	40 - 263	Carico asta
270	5	59 - 69	Carico asta
271	5	88 - 59	Carico asta
272	5	59 - 265	Carico asta

273	5	98 - 69	Carico asta
274	5	69 - 264	Carico asta
275	5	88 - 98	Carico asta
276	5	126 - 88	Carico asta
277	5	88 - 266	Carico asta
278	5	136 - 98	Carico asta
279	5	98 - 267	Carico asta
280	5	126 - 136	Carico asta
281	5	164 - 126	Carico asta
282	5	126 - 268	Carico asta
283	5	174 - 136	Carico asta
284	5	136 - 269	Carico asta
285	5	164 - 174	Carico asta
286	5	164 - 270	Carico asta
287	5	174 - 271	Carico asta
288	5	10 - 9	Carico asta
289	5	20 - 19	Carico asta
290	5	30 - 29	Carico asta
291	5	40 - 39	Carico asta
292	5	59 - 58	Carico asta
293	5	69 - 68	Carico asta
294	5	88 - 87	Carico asta
295	5	98 - 97	Carico asta
296	5	126 - 125	Carico asta
297	5	136 - 135	Carico asta
298	5	164 - 163	Carico asta
299	5	174 - 173	Carico asta

3.7.1.2 Carichi predefiniti Solai

Nel presente paragrafo sono riportate per tipologia i carichi tipici applicati ai solai. I valori riportati verranno utilizzati per calcolare i carichi effettivi applicati al modello sugli elementi sui quali scaricano i solai.

Tipologia : Nome della tipologia di carico;
 Azione : Azione di carico utilizzata per assegnare il carico (vedi "Azione" in "Azioni di carico elementari");
 Q : Valore del carico di superficie applicato al solaio;

Tipologia	Sovraccarico permanente		Incidenza tramezzi		Carico d'esercizio	
	Azione	Q [kN/m²]	Azione	Q [kN/m²]	Azione	Q [kN/m²]
Carico solaio	G2	1.50	G2	1.00	Q ese	5.00

Solaio : Solaio di input (vedi "Solaio" in "Caratteristiche dei Solai");
 Imp. : Impalcato al quale appartiene la piastra;
 Nodi : Nodi ai quali appartiene la piastra;
 Tipologia : Nome della tipologia di carico;

Solaio	Imp.	Nodi	Tipologia
Solaio 1 (117-122-137-132-127)	Livello (1)	117 - 122 - 137 - 132 - 127	Carico solaio
Solaio 2 (122-107-112-142-152-137)	Livello (1)	122 - 107 - 112 - 142 - 152 - 137	Carico solaio
Solaio 3 (82-112-107-77)	Livello (1)	82 - 112 - 107 - 77	Carico solaio
Solaio 4 (52-67-82-77-47)	Livello (1)	52 - 67 - 82 - 77 - 47	Carico solaio
Solaio 5 (37-52-47-32)	Livello (1)	37 - 52 - 47 - 32	Carico solaio
Solaio 6 (22-37-32-17)	Livello (1)	22 - 37 - 32 - 17	Carico solaio
Solaio 7 (2-222-7-17-227-12)	Livello (1)	2 - 222 - 7 - 17 - 227 - 12	Carico solaio
Solaio 8 (12-227-17-32-232-27)	Livello (1)	12 - 227 - 17 - 32 - 232 - 27	Carico solaio
Solaio 9 (27-232-32-47-237-42)	Livello (1)	27 - 232 - 32 - 47 - 237 - 42	Carico solaio
Solaio 10 (42-237-47-77-242-72)	Livello (1)	42 - 237 - 47 - 77 - 242 - 72	Carico solaio
Solaio 11 (72-242-77-107-122-117-102)	Livello (1)	72 - 242 - 77 - 107 - 122 - 117 - 102	Carico solaio
Solaio 12 (58-88-98-83-68)	Livello (2)	58 - 88 - 98 - 83 - 68	Carico solaio
Solaio 13 (63-93-88-58)	Livello (2)	63 - 93 - 88 - 58	Carico solaio
Solaio 14 (24-39-34-19)	Livello (3)	24 - 39 - 34 - 19	Carico solaio
Solaio 15 (39-54-49-34)	Livello (3)	39 - 54 - 49 - 34	Carico solaio
Solaio 16 (54-84-79-49)	Livello (3)	54 - 84 - 79 - 49	Carico solaio

Solaio 17 (84-114-109-79)	Livello (3)	84 - 114 - 109 - 79	Carico solaio
Solaio 18 (109-114-144-154-139-124)	Livello (3)	109 - 114 - 144 - 154 - 139 - 124	Carico solaio
Solaio 19 (139-154-144-149-159-134)	Livello (3)	139 - 154 - 144 - 149 - 159 - 134	Carico solaio
Solaio 20 (124-139-134-129-119)	Livello (3)	124 - 139 - 134 - 129 - 119	Carico solaio
Solaio 21 (5-10-20-15)	Livello (4)	5 - 10 - 20 - 15	Carico solaio
Solaio 22 (15-20-35-30)	Livello (4)	15 - 20 - 35 - 30	Carico solaio
Solaio 23 (30-35-50-45)	Livello (4)	30 - 35 - 50 - 45	Carico solaio
Solaio 24 (45-50-80-75)	Livello (4)	45 - 50 - 80 - 75	Carico solaio
Solaio 25 (75-80-110-105)	Livello (4)	75 - 80 - 110 - 105	Carico solaio
Solaio 26 (5-15-170-165)	Livello (4)	5 - 15 - 170 - 165	Carico solaio
Solaio 27 (20-10-175-180)	Livello (4)	20 - 10 - 175 - 180	Carico solaio
Solaio 28 (170-15-30-190)	Livello (4)	170 - 15 - 30 - 190	Carico solaio
Solaio 29 (35-20-180-185)	Livello (4)	35 - 20 - 180 - 185	Carico solaio
Solaio 30 (190-30-45-195)	Livello (4)	190 - 30 - 45 - 195	Carico solaio
Solaio 31 (50-35-185-200)	Livello (4)	50 - 35 - 185 - 200	Carico solaio
Solaio 32 (195-45-75-205)	Livello (4)	195 - 45 - 75 - 205	Carico solaio
Solaio 33 (80-50-200-210)	Livello (4)	80 - 50 - 200 - 210	Carico solaio
Solaio 34 (205-75-105-215)	Livello (4)	205 - 75 - 105 - 215	Carico solaio
Solaio 35 (110-80-210-220)	Livello (4)	110 - 80 - 210 - 220	Carico solaio

3.7.1.3 Carichi predefiniti Balconi

Nel presente paragrafo sono riportate per tipologia i carichi tipici applicati ai balconi. I valori riportati verranno utilizzati per calcolare i carichi effettivi applicati al modello sugli elementi sui quali scaricano.

Tipologia : Nome della tipologia di carico;
 Azione : Azione di carico utilizzata per assegnare il carico (vedi "Azione" in "Azioni di carico elementari");
 P : Valore del carico lineare applicato al balcone;
 Q : Valore del carico di superficie applicato al balcone;

Tipologia	Sovraccarico permanente		Peso Balastra		Carico d'esercizio	
	Azione	Q [kN/m²]	Azione	P [kN/m]	Azione	Q [kN/m²]
Carico balcone	G2	1.50	G2	0.001	Q ese	4.00

Solaio : Numero del balcone;
 Imp. : Impalcato al quale appartiene la piastra;
 Nodi : Nodi ai quali appartiene la piastra;
 Tipologia : Nome della tipologia di carico;

Balcone	Imp.	Nodi	Tipologia
Balcone 63 (63-58)	Livello (2)	63 - 58	Carico balcone
Balcone 64 (58-68)	Livello (2)	58 - 68	Carico balcone
Balcone 67 (88-93)	Livello (2)	88 - 93	Carico balcone
Balcone 68 (98-88)	Livello (2)	98 - 88	Carico balcone
Balcone 71 (4-9)	Livello (3)	4 - 9	Carico balcone
Balcone 73 (14-4)	Livello (3)	14 - 4	Carico balcone
Balcone 75 (9-19)	Livello (3)	9 - 19	Carico balcone
Balcone 77 (29-14)	Livello (3)	29 - 14	Carico balcone
Balcone 79 (24-19)	Livello (3)	24 - 19	Carico balcone
Balcone 81 (39-24)	Livello (3)	39 - 24	Carico balcone
Balcone 82 (44-29)	Livello (3)	44 - 29	Carico balcone
Balcone 85 (54-39)	Livello (3)	54 - 39	Carico balcone
Balcone 86 (74-44)	Livello (3)	74 - 44	Carico balcone
Balcone 89 (84-54)	Livello (3)	84 - 54	Carico balcone
Balcone 90 (104-74)	Livello (3)	104 - 74	Carico balcone
Balcone 93 (119-104)	Livello (3)	119 - 104	Carico balcone
Balcone 97 (119-129)	Livello (3)	119 - 129	Carico balcone
Balcone 98 (129-134)	Livello (3)	129 - 134	Carico balcone
Balcone 99 (134-159)	Livello (3)	134 - 159	Carico balcone
Balcone 100 (159-149)	Livello (3)	159 - 149	Carico balcone

3.7.2 Carichi sugli elementi

3.7.2.1 Carichi Globali distribuiti sulle Aste

I carichi riportati sono stati calcolati considerando anche tutti i carichi applicati sugli elementi e derivanti da solai, balconi, pannelli, tamponature.

Asta : Numero dell'asta (vedi "Asta C." in "Caratteristiche delle Aste");
 Imp. : Impalcato al quale appartiene l'asta;
 Nodi : Nodi ai quali appartiene l'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
 Azione : Azione di carico (vedi "Azione" in "Azioni di carico elementari");
 DGlob : Direzione dei carichi secondo il sistema di riferimento globale dell'asta;
 in : Valore del carico distribuito relativo al nodo iniziale come da paragrafo "Caratteristiche delle Aste";
 fin : Valore del carico distribuito relativo al nodo finale come da paragrafo "Caratteristiche delle Aste";

Asta	Imp.	Nodi	Azione	DGlob X [kN/m]		DGlob Y [kN/m]		DGlob Z [kN/m]		DGlob RX [kNm/m]		DGlob RY [kNm/m]		DGlob RZ [kNm/m]	
				in.	fin.	in.	fin.	in.	fin.	in.	fin.	in.	fin.	in.	fin.
31	1	21 - 1	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
31	1	21 - 1	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
31	1	21 - 1	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
32	1	1 - 272	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
32	1	1 - 272	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
32	1	1 - 272	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
33	1	11 - 31	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
33	1	11 - 31	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
33	1	11 - 31	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
34	1	272 - 11	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
34	1	272 - 11	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
34	1	272 - 11	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
35	1	50 - 21	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
35	1	50 - 21	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
35	1	50 - 21	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
36	1	21 - 279	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
36	1	21 - 279	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
36	1	21 - 279	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
37	1	31 - 41	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
37	1	31 - 41	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
37	1	31 - 41	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
38	1	31 - 60	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
38	1	31 - 60	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
38	1	31 - 60	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
39	1	279 - 31	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
39	1	279 - 31	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
39	1	279 - 31	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
40	1	41 - 70	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
40	1	41 - 70	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
40	1	41 - 70	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
41	1	79 - 50	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
41	1	79 - 50	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
41	1	79 - 50	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
42	1	50 - 286	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
42	1	50 - 286	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
42	1	50 - 286	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
43	1	60 - 70	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
43	1	60 - 70	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
43	1	60 - 70	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
44	1	60 - 89	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
44	1	60 - 89	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
44	1	60 - 89	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
45	1	286 - 60	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
45	1	286 - 60	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
45	1	286 - 60	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
46	1	70 - 99	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00

69	1	193 - 165	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
69	1	193 - 165	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
70	1	175 - 229	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
70	1	175 - 229	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
70	1	175 - 229	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
71	1	184 - 193	1	0.00	0.00	0.00	0.00	-3.75	-3.75	0.00	0.00	0.00	0.00	0.00	0.00
71	1	184 - 193	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
71	1	184 - 193	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
72	1	202 - 184	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
72	1	202 - 184	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
72	1	202 - 184	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
73	1	193 - 220	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
73	1	193 - 220	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
73	1	193 - 220	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
74	1	211 - 202	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
74	1	211 - 202	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
74	1	211 - 202	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
75	1	220 - 211	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
75	1	220 - 211	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
75	1	220 - 211	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
76	1	251 - 211	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
76	1	251 - 211	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
76	1	251 - 211	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
77	1	220 - 242	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
77	1	220 - 242	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
77	1	220 - 242	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
78	1	238 - 229	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
78	1	238 - 229	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
78	1	238 - 229	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
79	1	242 - 229	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
79	1	242 - 229	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
79	1	242 - 229	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
80	1	251 - 238	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
80	1	251 - 238	2	0.00	0.00	0.00	0.00	-1.50	-1.50	0.00	0.00	0.00	0.00	0.00	0.00
80	1	251 - 238	3	0.00	0.00	0.00	0.00	-1.20	-1.20	0.00	0.00	0.00	0.00	0.00	0.00
81	2	27 - 7	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
81	2	27 - 7	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
82	2	7 - 278	1	0.00	0.00	0.00	0.00	-9.976	-9.976	0.00	0.00	0.00	0.00	0.00	0.00
82	2	7 - 278	2	0.00	0.00	0.00	0.00	-6.30	-6.30	0.00	0.00	0.00	0.00	0.00	0.00
82	2	7 - 278	3	0.00	0.00	0.00	0.00	-11.70	-11.70	0.00	0.00	0.00	0.00	0.00	0.00
83	2	17 - 37	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
83	2	17 - 37	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
84	2	278 - 17	1	0.00	0.00	0.00	0.00	-9.976	-9.976	0.00	0.00	0.00	0.00	0.00	0.00
84	2	278 - 17	2	0.00	0.00	0.00	0.00	-6.30	-6.30	0.00	0.00	0.00	0.00	0.00	0.00
84	2	278 - 17	3	0.00	0.00	0.00	0.00	-11.70	-11.70	0.00	0.00	0.00	0.00	0.00	0.00
85	2	56 - 27	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
85	2	56 - 27	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
86	2	27 - 285	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
86	2	27 - 285	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
86	2	27 - 285	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
87	2	47 - 37	1	0.00	0.00	0.00	0.00	-11.476	-11.476	0.00	0.00	0.00	0.00	0.00	0.00
87	2	47 - 37	2	0.00	0.00	0.00	0.00	-11.898699	-11.898699	0.00	0.00	0.00	0.00	0.00	0.00
87	2	47 - 37	3	0.00	0.00	0.00	0.00	-11.10	-11.10	0.00	0.00	0.00	0.00	0.00	0.00
88	2	37 - 66	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
88	2	37 - 66	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
89	2	285 - 37	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
89	2	285 - 37	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
89	2	285 - 37	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
90	2	76 - 47	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
90	2	76 - 47	2	0.00	0.00	0.00	0.00	-6.460295	-6.460295	0.00	0.00	0.00	0.00	0.00	0.00
91	2	85 - 56	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
91	2	85 - 56	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
92	2	56 - 292	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
92	2	56 - 292	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
92	2	56 - 292	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
93	2	76 - 66	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
93	2	76 - 66	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
93	2	76 - 66	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
94	2	66 - 95	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00

94	2	66 - 95	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
95	2	292 - 66	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
95	2	292 - 66	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
95	2	292 - 66	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
96	2	105 - 76	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	105 - 76	2	0.00	0.00	0.00	0.00	-6.460295	-6.460295	0.00	0.00	0.00	0.00	0.00	0.00
97	2	123 - 85	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
97	2	123 - 85	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
98	2	85 - 299	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
98	2	85 - 299	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
98	2	85 - 299	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
99	2	105 - 95	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
99	2	105 - 95	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
99	2	105 - 95	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
100	2	95 - 133	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
100	2	95 - 133	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
101	2	299 - 95	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
101	2	299 - 95	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
101	2	299 - 95	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
102	2	115 - 105	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
102	2	115 - 105	2	0.00	0.00	0.00	0.00	-3.590838	-3.590838	0.00	0.00	0.00	0.00	0.00	0.00
103	2	143 - 115	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
103	2	143 - 115	2	0.00	0.00	0.00	0.00	-3.597595	-3.597595	0.00	0.00	0.00	0.00	0.00	0.00
104	2	161 - 123	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
104	2	161 - 123	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
105	2	123 - 306	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
105	2	123 - 306	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
105	2	123 - 306	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
106	2	143 - 133	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
106	2	143 - 133	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
106	2	143 - 133	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
107	2	133 - 171	1	0.00	0.00	0.00	0.00	-3.00	-3.00	0.00	0.00	0.00	0.00	0.00	0.00
107	2	133 - 171	2	0.00	0.00	0.00	0.00	-6.388354	-6.388354	0.00	0.00	0.00	0.00	0.00	0.00
108	2	306 - 133	1	0.00	0.00	0.00	0.00	-15.452	-15.452	0.00	0.00	0.00	0.00	0.00	0.00
108	2	306 - 133	2	0.00	0.00	0.00	0.00	-11.85	-11.85	0.00	0.00	0.00	0.00	0.00	0.00
108	2	306 - 133	3	0.00	0.00	0.00	0.00	-22.80	-22.80	0.00	0.00	0.00	0.00	0.00	0.00
109	2	153 - 143	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
109	2	153 - 143	2	0.00	0.00	0.00	0.00	-3.273191	-3.273191	0.00	0.00	0.00	0.00	0.00	0.00
110	2	181 - 153	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
110	2	181 - 153	2	0.00	0.00	0.00	0.00	-3.670562	-3.670562	0.00	0.00	0.00	0.00	0.00	0.00
111	2	161 - 190	1	0.00	0.00	0.00	0.00	-9.976	-9.976	0.00	0.00	0.00	0.00	0.00	0.00
111	2	161 - 190	2	0.00	0.00	0.00	0.00	-11.532283	-11.532283	0.00	0.00	0.00	0.00	0.00	0.00
111	2	161 - 190	3	0.00	0.00	0.00	0.00	-11.10	-11.10	0.00	0.00	0.00	0.00	0.00	0.00
112	2	181 - 171	1	0.00	0.00	0.00	0.00	-13.676	-13.676	0.00	0.00	0.00	0.00	0.00	0.00
112	2	181 - 171	2	0.00	0.00	0.00	0.00	-10.05	-10.05	0.00	0.00	0.00	0.00	0.00	0.00
112	2	181 - 171	3	0.00	0.00	0.00	0.00	-19.20	-19.20	0.00	0.00	0.00	0.00	0.00	0.00
113	2	199 - 171	1	0.00	0.00	0.00	0.00	-13.676	-13.676	0.00	0.00	0.00	0.00	0.00	0.00
113	2	199 - 171	2	0.00	0.00	0.00	0.00	-14.978858	-14.978858	0.00	0.00	0.00	0.00	0.00	0.00
113	2	199 - 171	3	0.00	0.00	0.00	0.00	-18.60	-18.60	0.00	0.00	0.00	0.00	0.00	0.00
114	2	235 - 181	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
114	2	235 - 181	2	0.00	0.00	0.00	0.00	-2.092855	-2.092855	0.00	0.00	0.00	0.00	0.00	0.00
115	2	190 - 199	1	0.00	0.00	0.00	0.00	-9.976	-9.976	0.00	0.00	0.00	0.00	0.00	0.00
115	2	190 - 199	2	0.00	0.00	0.00	0.00	-12.111667	-12.111667	0.00	0.00	0.00	0.00	0.00	0.00
115	2	190 - 199	3	0.00	0.00	0.00	0.00	-11.10	-11.10	0.00	0.00	0.00	0.00	0.00	0.00
116	2	190 - 208	1	0.00	0.00	0.00	0.00	-13.77	-13.77	0.00	0.00	0.00	0.00	0.00	0.00
116	2	190 - 208	2	0.00	0.00	0.00	0.00	-11.790833	-11.790833	0.00	0.00	0.00	0.00	0.00	0.00
116	2	190 - 208	3	0.00	0.00	0.00	0.00	-15.75	-15.75	0.00	0.00	0.00	0.00	0.00	0.00
117	2	199 - 226	1	0.00	0.00	0.00	0.00	-12.27	-12.27	0.00	0.00	0.00	0.00	0.00	0.00
117	2	199 - 226	2	0.00	0.00	0.00	0.00	-8.625	-8.625	0.00	0.00	0.00	0.00	0.00	0.00
117	2	199 - 226	3	0.00	0.00	0.00	0.00	-16.35	-16.35	0.00	0.00	0.00	0.00	0.00	0.00
118	2	208 - 217	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
118	2	208 - 217	2	0.00	0.00	0.00	0.00	-3.915833	-3.915833	0.00	0.00	0.00	0.00	0.00	0.00
119	2	226 - 217	1	0.00	0.00	0.00	0.00	-12.27	-12.27	0.00	0.00	0.00	0.00	0.00	0.00
119	2	226 - 217	2	0.00	0.00	0.00	0.00	-11.636667	-11.636667	0.00	0.00	0.00	0.00	0.00	0.00
119	2	226 - 217	3	0.00	0.00	0.00	0.00	-15.75	-15.75	0.00	0.00	0.00	0.00	0.00	0.00
120	2	217 - 257	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
120	2	217 - 257	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
120	2	217 - 257	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
121	2	226 - 248	1	0.00	0.00	0.00	0.00	-8.20	-8.20	0.00	0.00	0.00	0.00	0.00	0.00

121	2	226 - 248	2	0.00	0.00	0.00	0.00	-7.611922	-7.611922	0.00	0.00	0.00	0.00	0.00	0.00
121	2	226 - 248	3	0.00	0.00	0.00	0.00	-7.50	-7.50	0.00	0.00	0.00	0.00	0.00	0.00
122	2	235 - 239	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
122	2	235 - 239	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
122	2	235 - 239	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
123	2	248 - 235	1	0.00	0.00	0.00	0.00	-8.20	-8.20	0.00	0.00	0.00	0.00	0.00	0.00
123	2	248 - 235	2	0.00	0.00	0.00	0.00	-7.552237	-7.552237	0.00	0.00	0.00	0.00	0.00	0.00
123	2	248 - 235	3	0.00	0.00	0.00	0.00	-7.50	-7.50	0.00	0.00	0.00	0.00	0.00	0.00
124	2	257 - 239	1	0.00	0.00	0.00	0.00	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
124	2	257 - 239	2	0.00	0.00	0.00	0.00	-0.75	-0.75	0.00	0.00	0.00	0.00	0.00	0.00
124	2	257 - 239	3	0.00	0.00	0.00	0.00	-0.60	-0.60	0.00	0.00	0.00	0.00	0.00	0.00
125	2	7 - 1	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
126	2	17 - 11	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
127	2	27 - 21	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
128	2	37 - 31	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
129	2	47 - 41	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
130	2	56 - 50	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
131	2	66 - 60	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
132	2	76 - 70	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
133	2	85 - 79	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
134	2	95 - 89	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
135	2	105 - 99	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
136	2	109 - 108	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
137	2	112 - 111	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
138	2	123 - 117	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
139	2	133 - 127	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
140	2	143 - 137	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
141	2	147 - 146	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
142	2	150 - 149	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
143	2	161 - 155	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
144	2	171 - 165	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
145	2	181 - 175	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
146	2	190 - 184	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
147	2	199 - 193	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
148	2	208 - 202	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
149	2	217 - 211	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
150	2	226 - 220	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
151	2	235 - 229	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
152	2	239 - 238	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
153	2	248 - 242	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
154	2	257 - 251	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
155	2	278 - 272	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
156	2	285 - 279	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
157	2	292 - 286	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
158	2	299 - 293	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
159	2	306 - 300	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
160	3	116 - 106	1	0.00	0.00	0.00	0.00	-2.1875	-2.1875	0.00	0.00	0.00	0.00	0.00	0.00
160	3	116 - 106	2	0.00	0.00	0.00	0.00	-10.377789	-10.377789	0.00	0.00	0.00	0.00	0.00	0.00
161	3	113 - 110	1	0.00	0.00	0.00	0.00	-6.235997	-5.592171	0.00	0.00	0.00	0.00	0.00	0.00
161	3	113 - 110	2	0.00	0.00	0.00	0.00	-4.823399	-4.630251	0.00	0.00	0.00	0.00	0.00	0.00
161	3	113 - 110	3	0.00	0.00	0.00	0.00	-2.994731	-2.47967	0.00	0.00	0.00	0.00	0.00	0.00
162	3	110 - 116	1	0.00	0.00	0.00	0.00	-6.19384	-5.696345	0.00	0.00	0.00	0.00	0.00	0.00
162	3	110 - 116	2	0.00	0.00	0.00	0.00	-4.810752	-4.661503	0.00	0.00	0.00	0.00	0.00	0.00
162	3	110 - 116	3	0.00	0.00	0.00	0.00	-2.961006	-2.563009	0.00	0.00	0.00	0.00	0.00	0.00
163	3	148 - 110	1	0.00	0.00	0.00	0.00	-1.25	-1.25	0.00	0.00	0.00	0.00	0.00	0.00
163	3	148 - 110	2	0.00	0.00	0.00	0.00	-0.625	-0.625	0.00	0.00	0.00	0.00	0.00	0.00
163	3	148 - 110	3	0.00	0.00	0.00	0.00	-0.50	-0.50	0.00	0.00	0.00	0.00	0.00	0.00
164	3	151 - 113	1	0.00	0.00	0.00	0.00	-1.25	-1.25	0.00	0.00	0.00	0.00	0.00	0.00
164	3	151 - 113	2	0.00	0.00	0.00	0.00	-0.625	-0.625	0.00	0.00	0.00	0.00	0.00	0.00
164	3	151 - 113	3	0.00	0.00	0.00	0.00	-0.50	-0.50	0.00	0.00	0.00	0.00	0.00	0.00
165	3	144 - 116	1	0.00	0.00	0.00	0.00	-2.1875	-2.1875	0.00	0.00	0.00	0.00	0.00	0.00
165	3	144 - 116	2	0.00	0.00	0.00	0.00	-6.032965	-6.032965	0.00	0.00	0.00	0.00	0.00	0.00
166	3	154 - 144	1	0.00	0.00	0.00	0.00	-2.1875	-2.1875	0.00	0.00	0.00	0.00	0.00	0.00
166	3	154 - 144	2	0.00	0.00	0.00	0.00	-10.240765	-10.240765	0.00	0.00	0.00	0.00	0.00	0.00
167	3	148 - 151	1	0.00	0.00	0.00	0.00	-6.235997	-5.592171	0.00	0.00	0.00	0.00	0.00	0.00
167	3	148 - 151	2	0.00	0.00	0.00	0.00	-4.823399	-4.630251	0.00	0.00	0.00	0.00	0.00	0.00
167	3	148 - 151	3	0.00	0.00	0.00	0.00	-2.994731	-2.47967	0.00	0.00	0.00	0.00	0.00	0.00
168	3	154 - 148	1	0.00	0.00	0.00	0.00	-6.19384	-5.696345	0.00	0.00	0.00	0.00	0.00	0.00
168	3	154 - 148	2	0.00	0.00	0.00	0.00	-4.810752	-4.661503	0.00	0.00	0.00	0.00	0.00	0.00

168	3	154 - 148	3	0.00	0.00	0.00	0.00	-2.961006	-2.563009	0.00	0.00	0.00	0.00	0.00	0.00
169	3	182 - 154	1	0.00	0.00	0.00	0.00	-2.1875	-2.1875	0.00	0.00	0.00	0.00	0.00	0.00
169	3	182 - 154	2	0.00	0.00	0.00	0.00	-10.241396	-10.241396	0.00	0.00	0.00	0.00	0.00	0.00
170	3	236 - 182	1	0.00	0.00	0.00	0.00	-2.1875	-2.1875	0.00	0.00	0.00	0.00	0.00	0.00
170	3	236 - 182	2	0.00	0.00	0.00	0.00	-1.190055	-1.190055	0.00	0.00	0.00	0.00	0.00	0.00
171	3	8 - 7	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
172	3	18 - 17	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
173	3	28 - 27	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
174	3	38 - 37	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
175	3	48 - 47	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
176	3	57 - 56	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
177	3	67 - 66	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
178	3	77 - 76	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
179	3	86 - 85	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
180	3	96 - 95	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
181	3	106 - 105	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
182	3	110 - 109	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
183	3	113 - 112	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
184	3	124 - 123	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
185	3	134 - 133	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
186	3	144 - 143	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
187	3	148 - 147	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
188	3	151 - 150	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
189	3	162 - 161	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
190	3	172 - 171	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
191	3	182 - 181	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
192	3	191 - 190	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
193	3	200 - 199	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
194	3	209 - 208	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
195	3	218 - 217	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
196	3	227 - 226	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
197	3	236 - 235	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
198	3	240 - 239	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
199	3	249 - 248	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
200	3	258 - 257	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
201	4	9 - 19	1	0.00	0.00	0.00	0.00	-3.975765	-3.458759	0.00	0.00	0.00	0.00	0.00	0.00
201	4	9 - 19	2	0.00	0.00	0.00	0.00	-4.365218	-4.210116	0.00	0.00	0.00	0.00	0.00	0.00
201	4	9 - 19	3	0.00	0.00	0.00	0.00	-0.930612	-0.517007	0.00	0.00	0.00	0.00	0.00	0.00
202	4	29 - 9	1	0.00	0.00	0.00	0.00	-4.017595	-3.35424	0.00	0.00	0.00	0.00	0.00	0.00
202	4	29 - 9	2	0.00	0.00	0.00	0.00	-6.402427	-6.203421	0.00	0.00	0.00	0.00	0.00	0.00
202	4	29 - 9	3	0.00	0.00	0.00	0.00	-0.964076	-0.433392	0.00	0.00	0.00	0.00	0.00	0.00
203	4	19 - 39	1	0.00	0.00	0.00	0.00	-4.017595	-3.35424	0.00	0.00	0.00	0.00	0.00	0.00
203	4	19 - 39	2	0.00	0.00	0.00	0.00	-6.402427	-6.203421	0.00	0.00	0.00	0.00	0.00	0.00
203	4	19 - 39	3	0.00	0.00	0.00	0.00	-0.964076	-0.433392	0.00	0.00	0.00	0.00	0.00	0.00
204	4	58 - 29	1	0.00	0.00	0.00	0.00	-4.017595	-3.35424	0.00	0.00	0.00	0.00	0.00	0.00
204	4	58 - 29	2	0.00	0.00	0.00	0.00	-6.402427	-6.203421	0.00	0.00	0.00	0.00	0.00	0.00
204	4	58 - 29	3	0.00	0.00	0.00	0.00	-0.964076	-0.433392	0.00	0.00	0.00	0.00	0.00	0.00
205	4	49 - 39	1	0.00	0.00	0.00	0.00	-9.569282	-8.854628	0.00	0.00	0.00	0.00	0.00	0.00
205	4	49 - 39	2	0.00	0.00	0.00	0.00	-3.734235	-3.519838	0.00	0.00	0.00	0.00	0.00	0.00
205	4	49 - 39	3	0.00	0.00	0.00	0.00	-3.220292	-2.648569	0.00	0.00	0.00	0.00	0.00	0.00
206	4	39 - 68	1	0.00	0.00	0.00	0.00	-2.8125	-2.8125	0.00	0.00	0.00	0.00	0.00	0.00
206	4	39 - 68	2	0.00	0.00	0.00	0.00	-6.039899	-6.039899	0.00	0.00	0.00	0.00	0.00	0.00
207	4	78 - 49	1	0.00	0.00	0.00	0.00	-3.990089	-3.42394	0.00	0.00	0.00	0.00	0.00	0.00
207	4	78 - 49	2	0.00	0.00	0.00	0.00	-0.354277	-0.184432	0.00	0.00	0.00	0.00	0.00	0.00
207	4	78 - 49	3	0.00	0.00	0.00	0.00	-0.942071	-0.489152	0.00	0.00	0.00	0.00	0.00	0.00
208	4	87 - 58	1	0.00	0.00	0.00	0.00	-4.017595	-3.35424	0.00	0.00	0.00	0.00	0.00	0.00
208	4	87 - 58	2	0.00	0.00	0.00	0.00	-6.402427	-6.203421	0.00	0.00	0.00	0.00	0.00	0.00
208	4	87 - 58	3	0.00	0.00	0.00	0.00	-0.964076	-0.433392	0.00	0.00	0.00	0.00	0.00	0.00
209	4	78 - 68	1	0.00	0.00	0.00	0.00	-13.887833	-13.887833	0.00	0.00	0.00	0.00	0.00	0.00
209	4	78 - 68	2	0.00	0.00	0.00	0.00	-7.36	-7.36	0.00	0.00	0.00	0.00	0.00	0.00
209	4	78 - 68	3	0.00	0.00	0.00	0.00	-4.99	-4.99	0.00	0.00	0.00	0.00	0.00	0.00
210	4	68 - 97	1	0.00	0.00	0.00	0.00	-2.8125	-2.8125	0.00	0.00	0.00	0.00	0.00	0.00
210	4	68 - 97	2	0.00	0.00	0.00	0.00	-6.039899	-6.039899	0.00	0.00	0.00	0.00	0.00	0.00
211	4	107 - 78	1	0.00	0.00	0.00	0.00	-3.990089	-3.42394	0.00	0.00	0.00	0.00	0.00	0.00
211	4	107 - 78	2	0.00	0.00	0.00	0.00	-0.354277	-0.184432	0.00	0.00	0.00	0.00	0.00	0.00
211	4	107 - 78	3	0.00	0.00	0.00	0.00	-0.942071	-0.489152	0.00	0.00	0.00	0.00	0.00	0.00
212	4	125 - 87	1	0.00	0.00	0.00	0.00	-4.017595	-3.35424	0.00	0.00	0.00	0.00	0.00	0.00
212	4	125 - 87	2	0.00	0.00	0.00	0.00	-6.402427	-6.203421	0.00	0.00	0.00	0.00	0.00	0.00
212	4	125 - 87	3	0.00	0.00	0.00	0.00	-0.964076	-0.433392	0.00	0.00	0.00	0.00	0.00	0.00

213	4	107 - 97	1	0.00	0.00	0.00	0.00	-13.887833	-13.887833	0.00	0.00	0.00	0.00	0.00	0.00
213	4	107 - 97	2	0.00	0.00	0.00	0.00	-7.36	-7.36	0.00	0.00	0.00	0.00	0.00	0.00
213	4	107 - 97	3	0.00	0.00	0.00	0.00	-4.99	-4.99	0.00	0.00	0.00	0.00	0.00	0.00
214	4	97 - 135	1	0.00	0.00	0.00	0.00	-2.8125	-2.8125	0.00	0.00	0.00	0.00	0.00	0.00
214	4	97 - 135	2	0.00	0.00	0.00	0.00	-6.039899	-6.039899	0.00	0.00	0.00	0.00	0.00	0.00
215	4	145 - 107	1	0.00	0.00	0.00	0.00	-3.990089	-3.42394	0.00	0.00	0.00	0.00	0.00	0.00
215	4	145 - 107	2	0.00	0.00	0.00	0.00	-0.979277	-0.809432	0.00	0.00	0.00	0.00	0.00	0.00
215	4	145 - 107	3	0.00	0.00	0.00	0.00	-1.442071	-0.989152	0.00	0.00	0.00	0.00	0.00	0.00
216	4	163 - 125	1	0.00	0.00	0.00	0.00	-4.017595	-3.35424	0.00	0.00	0.00	0.00	0.00	0.00
216	4	163 - 125	2	0.00	0.00	0.00	0.00	-6.402427	-6.203421	0.00	0.00	0.00	0.00	0.00	0.00
216	4	163 - 125	3	0.00	0.00	0.00	0.00	-0.964076	-0.433392	0.00	0.00	0.00	0.00	0.00	0.00
217	4	145 - 135	1	0.00	0.00	0.00	0.00	-13.887833	-13.887833	0.00	0.00	0.00	0.00	0.00	0.00
217	4	145 - 135	2	0.00	0.00	0.00	0.00	-7.36	-7.36	0.00	0.00	0.00	0.00	0.00	0.00
217	4	145 - 135	3	0.00	0.00	0.00	0.00	-4.99	-4.99	0.00	0.00	0.00	0.00	0.00	0.00
218	4	135 - 173	1	0.00	0.00	0.00	0.00	-2.8125	-2.8125	0.00	0.00	0.00	0.00	0.00	0.00
218	4	135 - 173	2	0.00	0.00	0.00	0.00	-6.039899	-6.039899	0.00	0.00	0.00	0.00	0.00	0.00
219	4	183 - 145	1	0.00	0.00	0.00	0.00	-2.8125	-2.8125	0.00	0.00	0.00	0.00	0.00	0.00
219	4	183 - 145	2	0.00	0.00	0.00	0.00	-0.625	-0.625	0.00	0.00	0.00	0.00	0.00	0.00
219	4	183 - 145	3	0.00	0.00	0.00	0.00	-0.50	-0.50	0.00	0.00	0.00	0.00	0.00	0.00
220	4	192 - 163	1	0.00	0.00	0.00	0.00	-4.122776	-3.010895	0.00	0.00	0.00	0.00	0.00	0.00
220	4	192 - 163	2	0.00	0.00	0.00	0.00	-6.962499	-6.628935	0.00	0.00	0.00	0.00	0.00	0.00
220	4	192 - 163	3	0.00	0.00	0.00	0.00	-1.048221	-0.158716	0.00	0.00	0.00	0.00	0.00	0.00
221	4	183 - 173	1	0.00	0.00	0.00	0.00	-12.111833	-12.111833	0.00	0.00	0.00	0.00	0.00	0.00
221	4	183 - 173	2	0.00	0.00	0.00	0.00	-6.28	-6.28	0.00	0.00	0.00	0.00	0.00	0.00
221	4	183 - 173	3	0.00	0.00	0.00	0.00	-4.27	-4.27	0.00	0.00	0.00	0.00	0.00	0.00
222	4	173 - 201	1	0.00	0.00	0.00	0.00	-6.574167	-6.574167	0.00	0.00	0.00	0.00	0.00	0.00
222	4	173 - 201	2	0.00	0.00	0.00	0.00	-8.630051	-8.630051	0.00	0.00	0.00	0.00	0.00	0.00
222	4	173 - 201	3	0.00	0.00	0.00	0.00	-1.525	-1.525	0.00	0.00	0.00	0.00	0.00	0.00
223	4	237 - 183	1	0.00	0.00	0.00	0.00	-2.8125	-2.8125	0.00	0.00	0.00	0.00	0.00	0.00
224	4	201 - 192	1	0.00	0.00	0.00	0.00	-2.8125	-2.8125	0.00	0.00	0.00	0.00	0.00	0.00
224	4	201 - 192	2	0.00	0.00	0.00	0.00	-7.192	-7.192	0.00	0.00	0.00	0.00	0.00	0.00
225	4	192 - 210	1	0.00	0.00	0.00	0.00	-11.778464	-11.358354	0.00	0.00	0.00	0.00	0.00	0.00
225	4	192 - 210	2	0.00	0.00	0.00	0.00	-5.103789	-4.977756	0.00	0.00	0.00	0.00	0.00	0.00
225	4	192 - 210	3	0.00	0.00	0.00	0.00	-4.069741	-3.733653	0.00	0.00	0.00	0.00	0.00	0.00
226	4	201 - 228	1	0.00	0.00	0.00	0.00	-10.644167	-10.644167	0.00	0.00	0.00	0.00	0.00	0.00
226	4	201 - 228	2	0.00	0.00	0.00	0.00	-5.3875	-5.3875	0.00	0.00	0.00	0.00	0.00	0.00
226	4	201 - 228	3	0.00	0.00	0.00	0.00	-3.675	-3.675	0.00	0.00	0.00	0.00	0.00	0.00
227	4	210 - 219	1	0.00	0.00	0.00	0.00	-3.946798	-3.526687	0.00	0.00	0.00	0.00	0.00	0.00
227	4	210 - 219	2	0.00	0.00	0.00	0.00	-0.341289	-0.215256	0.00	0.00	0.00	0.00	0.00	0.00
227	4	210 - 219	3	0.00	0.00	0.00	0.00	-0.907438	-0.57135	0.00	0.00	0.00	0.00	0.00	0.00
228	4	228 - 219	1	0.00	0.00	0.00	0.00	-10.644167	-10.644167	0.00	0.00	0.00	0.00	0.00	0.00
228	4	228 - 219	2	0.00	0.00	0.00	0.00	-4.7625	-4.7625	0.00	0.00	0.00	0.00	0.00	0.00
228	4	228 - 219	3	0.00	0.00	0.00	0.00	-3.175	-3.175	0.00	0.00	0.00	0.00	0.00	0.00
229	4	219 - 259	1	0.00	0.00	0.00	0.00	-9.757271	-8.262856	0.00	0.00	0.00	0.00	0.00	0.00
229	4	219 - 259	2	0.00	0.00	0.00	0.00	-4.849171	-3.940405	0.00	0.00	0.00	0.00	0.00	0.00
229	4	219 - 259	3	0.00	0.00	0.00	0.00	-7.18679	-4.763414	0.00	0.00	0.00	0.00	0.00	0.00
230	4	228 - 250	1	0.00	0.00	0.00	0.00	-10.335833	-10.335833	0.00	0.00	0.00	0.00	0.00	0.00
230	4	228 - 250	2	0.00	0.00	0.00	0.00	-4.575	-4.575	0.00	0.00	0.00	0.00	0.00	0.00
230	4	228 - 250	3	0.00	0.00	0.00	0.00	-3.05	-3.05	0.00	0.00	0.00	0.00	0.00	0.00
231	4	241 - 237	1	0.00	0.00	0.00	0.00	-2.8125	-2.8125	0.00	0.00	0.00	0.00	0.00	0.00
231	4	241 - 237	2	0.00	0.00	0.00	0.00	-0.625	-0.625	0.00	0.00	0.00	0.00	0.00	0.00
231	4	241 - 237	3	0.00	0.00	0.00	0.00	-0.50	-0.50	0.00	0.00	0.00	0.00	0.00	0.00
232	4	250 - 237	1	0.00	0.00	0.00	0.00	-10.335833	-10.335833	0.00	0.00	0.00	0.00	0.00	0.00
232	4	250 - 237	2	0.00	0.00	0.00	0.00	-4.575	-4.575	0.00	0.00	0.00	0.00	0.00	0.00
232	4	250 - 237	3	0.00	0.00	0.00	0.00	-3.05	-3.05	0.00	0.00	0.00	0.00	0.00	0.00
233	4	259 - 241	1	0.00	0.00	0.00	0.00	-7.785386	-7.09979	0.00	0.00	0.00	0.00	0.00	0.00
233	4	259 - 241	2	0.00	0.00	0.00	0.00	-3.276866	-3.071187	0.00	0.00	0.00	0.00	0.00	0.00
233	4	259 - 241	3	0.00	0.00	0.00	0.00	-2.993975	-2.445499	0.00	0.00	0.00	0.00	0.00	0.00
234	4	9 - 8	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
235	4	19 - 18	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
236	4	29 - 28	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
237	4	39 - 38	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
238	4	49 - 48	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
239	4	58 - 57	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
240	4	68 - 67	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
241	4	78 - 77	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
242	4	87 - 86	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
243	4	97 - 96	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
244	4	107 - 106	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00

245	4	125 - 124	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
246	4	135 - 134	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
247	4	145 - 144	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
248	4	163 - 162	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
249	4	173 - 172	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
250	4	183 - 182	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
251	4	192 - 191	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
252	4	201 - 200	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
253	4	210 - 209	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
254	4	219 - 218	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
255	4	228 - 227	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
256	4	237 - 236	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
257	4	241 - 240	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
258	4	250 - 249	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
259	4	259 - 258	1	0.00	0.00	0.00	0.00	-1.5625	-1.5625	0.00	0.00	0.00	0.00	0.00	0.00
260	5	10 - 20	1	0.00	0.00	0.00	0.00	-14.476	-14.476	0.00	0.00	0.00	0.00	0.00	0.00
260	5	10 - 20	2	0.00	0.00	0.00	0.00	-3.33	-3.33	0.00	0.00	0.00	0.00	0.00	0.00
260	5	10 - 20	3	0.00	0.00	0.00	0.00	-1.943333	-1.943333	0.00	0.00	0.00	0.00	0.00	0.00
261	5	30 - 10	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
262	5	10 - 260	1	0.00	0.00	0.00	0.00	-14.476	-14.476	0.00	0.00	0.00	0.00	0.00	0.00
262	5	10 - 260	2	0.00	0.00	0.00	0.00	-4.08	-4.08	0.00	0.00	0.00	0.00	0.00	0.00
262	5	10 - 260	3	0.00	0.00	0.00	0.00	-2.82	-2.82	0.00	0.00	0.00	0.00	0.00	0.00
263	5	40 - 20	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
264	5	20 - 262	1	0.00	0.00	0.00	0.00	-14.476	-14.476	0.00	0.00	0.00	0.00	0.00	0.00
264	5	20 - 262	2	0.00	0.00	0.00	0.00	-4.08	-4.08	0.00	0.00	0.00	0.00	0.00	0.00
264	5	20 - 262	3	0.00	0.00	0.00	0.00	-2.82	-2.82	0.00	0.00	0.00	0.00	0.00	0.00
265	5	30 - 40	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
265	5	30 - 40	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
265	5	30 - 40	3	0.00	0.00	0.00	0.00	-4.486666	-4.486666	0.00	0.00	0.00	0.00	0.00	0.00
266	5	59 - 30	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
267	5	30 - 261	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
267	5	30 - 261	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
267	5	30 - 261	3	0.00	0.00	0.00	0.00	-5.04	-5.04	0.00	0.00	0.00	0.00	0.00	0.00
268	5	69 - 40	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
269	5	40 - 263	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
269	5	40 - 263	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
269	5	40 - 263	3	0.00	0.00	0.00	0.00	-5.04	-5.04	0.00	0.00	0.00	0.00	0.00	0.00
270	5	59 - 69	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
270	5	59 - 69	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
270	5	59 - 69	3	0.00	0.00	0.00	0.00	-4.486666	-4.486666	0.00	0.00	0.00	0.00	0.00	0.00
271	5	88 - 59	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
272	5	59 - 265	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
272	5	59 - 265	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
272	5	59 - 265	3	0.00	0.00	0.00	0.00	-5.04	-5.04	0.00	0.00	0.00	0.00	0.00	0.00
273	5	98 - 69	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
274	5	69 - 264	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
274	5	69 - 264	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
274	5	69 - 264	3	0.00	0.00	0.00	0.00	-5.04	-5.04	0.00	0.00	0.00	0.00	0.00	0.00
275	5	88 - 98	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
275	5	88 - 98	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
275	5	88 - 98	3	0.00	0.00	0.00	0.00	-4.486666	-4.486666	0.00	0.00	0.00	0.00	0.00	0.00
276	5	126 - 88	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
277	5	88 - 266	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
277	5	88 - 266	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
277	5	88 - 266	3	0.00	0.00	0.00	0.00	-5.04	-5.04	0.00	0.00	0.00	0.00	0.00	0.00
278	5	136 - 98	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
279	5	98 - 267	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
279	5	98 - 267	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
279	5	98 - 267	3	0.00	0.00	0.00	0.00	-5.04	-5.04	0.00	0.00	0.00	0.00	0.00	0.00
280	5	126 - 136	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
280	5	126 - 136	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
280	5	126 - 136	3	0.00	0.00	0.00	0.00	-4.486666	-4.486666	0.00	0.00	0.00	0.00	0.00	0.00
281	5	164 - 126	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
282	5	126 - 268	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
282	5	126 - 268	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00
282	5	126 - 268	3	0.00	0.00	0.00	0.00	-5.04	-5.04	0.00	0.00	0.00	0.00	0.00	0.00
283	5	174 - 136	1	0.00	0.00	0.00	0.00	-2.25	-2.25	0.00	0.00	0.00	0.00	0.00	0.00
284	5	136 - 269	1	0.00	0.00	0.00	0.00	-19.952	-19.952	0.00	0.00	0.00	0.00	0.00	0.00
284	5	136 - 269	2	0.00	0.00	0.00	0.00	-7.41	-7.41	0.00	0.00	0.00	0.00	0.00	0.00

284	5	136 - 269	3	0.00	0.00	0.00	0.00	-5.04	-5.04	0.00	0.00	0.00	0.00	0.00	0.00
285	5	164 - 174	1	0.00	0.00	0.00	0.00	-14.476	-14.476	0.00	0.00	0.00	0.00	0.00	0.00
285	5	164 - 174	2	0.00	0.00	0.00	0.00	-4.08	-4.08	0.00	0.00	0.00	0.00	0.00	0.00
285	5	164 - 174	3	0.00	0.00	0.00	0.00	-2.543333	-2.543333	0.00	0.00	0.00	0.00	0.00	0.00
286	5	164 - 270	1	0.00	0.00	0.00	0.00	-14.476	-14.476	0.00	0.00	0.00	0.00	0.00	0.00
286	5	164 - 270	2	0.00	0.00	0.00	0.00	-4.08	-4.08	0.00	0.00	0.00	0.00	0.00	0.00
286	5	164 - 270	3	0.00	0.00	0.00	0.00	-2.82	-2.82	0.00	0.00	0.00	0.00	0.00	0.00
287	5	174 - 271	1	0.00	0.00	0.00	0.00	-14.476	-14.476	0.00	0.00	0.00	0.00	0.00	0.00
287	5	174 - 271	2	0.00	0.00	0.00	0.00	-4.08	-4.08	0.00	0.00	0.00	0.00	0.00	0.00
287	5	174 - 271	3	0.00	0.00	0.00	0.00	-2.82	-2.82	0.00	0.00	0.00	0.00	0.00	0.00
288	5	10 - 9	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
289	5	20 - 19	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
290	5	30 - 29	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
291	5	40 - 39	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
292	5	59 - 58	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
293	5	69 - 68	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
294	5	88 - 87	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
295	5	98 - 97	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
296	5	126 - 125	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
297	5	136 - 135	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
298	5	164 - 163	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00
299	5	174 - 173	1	0.00	0.00	0.00	0.00	-4.50	-4.50	0.00	0.00	0.00	0.00	0.00	0.00

3.7.2.2 Carichi Locali distribuiti sulle Aste

I carichi riportati sono stati calcolati considerando anche tutti i carichi applicati sugli elementi e derivanti da solai, balconi, pannelli, tamponature.

Asta : numero dell'asta come da paragrafo (vedi "Asta C." in "Caratteristiche delle Aste");

Imp. : impalcato al quale appartiene l'asta;

Nodi : nodi ai quali appartiene l'asta;

Azione : azione di carico (vedi "Azione" in "Azioni di carico elementari");

DLoc : direzione dei carichi secondo il sistema di riferimento locale dell'asta;

in : valore del carico distribuito relativo al nodo iniziale come da paragrafo (vedi "Ni" in "Caratteristiche delle Aste");

fin : valore del carico distribuito relativo al nodo finale come da paragrafo (vedi "Nf" in "Caratteristiche delle Aste").

Asta	Imp.	Nodi	Azione	DLoc 1 [kN/m]		DLoc 2 [kN/m]		DLoc 3 [kN/m]		DLoc R1 [kNm/m]		DLoc R2 [kNm/m]		DLoc R3 [kNm/m]	
				in.	fin.	in.	fin.	in.	fin.	in.	fin.	in.	fin.	in.	fin.
161	3	113 - 110	1	0.00	0.00	0.00	0.00	0.00	0.00	0.143919	0.030895	0.00	0.00	0.00	0.00
161	3	113 - 110	2	0.00	0.00	0.00	0.00	0.00	0.00	0.043416	0.00938	0.00	0.00	0.00	0.00
161	3	113 - 110	3	0.00	0.00	0.00	0.00	0.00	0.00	0.115136	0.024716	0.00	0.00	0.00	0.00
162	3	110 - 116	1	0.00	0.00	0.00	0.00	0.00	0.00	0.133982	0.043561	0.00	0.00	0.00	0.00
162	3	110 - 116	2	0.00	0.00	0.00	0.00	0.00	0.00	0.040426	0.0132	0.00	0.00	0.00	0.00
162	3	110 - 116	3	0.00	0.00	0.00	0.00	0.00	0.00	0.107186	0.034849	0.00	0.00	0.00	0.00
167	3	148 - 151	1	0.00	0.00	0.00	0.00	0.00	0.00	0.143919	0.030895	0.00	0.00	0.00	0.00
167	3	148 - 151	2	0.00	0.00	0.00	0.00	0.00	0.00	0.043416	0.00938	0.00	0.00	0.00	0.00
167	3	148 - 151	3	0.00	0.00	0.00	0.00	0.00	0.00	0.115136	0.024716	0.00	0.00	0.00	0.00
168	3	154 - 148	1	0.00	0.00	0.00	0.00	0.00	0.00	0.133982	0.043561	0.00	0.00	0.00	0.00
168	3	154 - 148	2	0.00	0.00	0.00	0.00	0.00	0.00	0.040426	0.0132	0.00	0.00	0.00	0.00
168	3	154 - 148	3	0.00	0.00	0.00	0.00	0.00	0.00	0.107186	0.034849	0.00	0.00	0.00	0.00
201	4	9 - 19	1	0.00	0.00	0.00	0.00	0.00	0.00	-0.135319	-0.041765	0.00	0.00	0.00	0.00
201	4	9 - 19	2	0.00	0.00	0.00	0.00	0.00	0.00	-0.040363	-0.0124	0.00	0.00	0.00	0.00
201	4	9 - 19	3	0.00	0.00	0.00	0.00	0.00	0.00	-0.108255	-0.033412	0.00	0.00	0.00	0.00
202	4	29 - 9	1	0.00	0.00	0.00	0.00	0.00	0.00	-0.145225	-0.029348	0.00	0.00	0.00	0.00
202	4	29 - 9	2	0.00	0.00	0.00	0.00	0.00	0.00	-0.043327	-0.008696	0.00	0.00	0.00	0.00
202	4	29 - 9	3	0.00	0.00	0.00	0.00	0.00	0.00	-0.11618	-0.023479	0.00	0.00	0.00	0.00
203	4	19 - 39	1	0.00	0.00	0.00	0.00	0.00	0.00	-0.145225	-0.029348	0.00	0.00	0.00	0.00
203	4	19 - 39	2	0.00	0.00	0.00	0.00	0.00	0.00	-0.043327	-0.008696	0.00	0.00	0.00	0.00
203	4	19 - 39	3	0.00	0.00	0.00	0.00	0.00	0.00	-0.11618	-0.023479	0.00	0.00	0.00	0.00
204	4	58 - 29	1	0.00	0.00	0.00	0.00	0.00	0.00	-0.145225	-0.029348	0.00	0.00	0.00	0.00
204	4	58 - 29	2	0.00	0.00	0.00	0.00	0.00	0.00	-0.043327	-0.008696	0.00	0.00	0.00	0.00

204	4	58 - 29	3	0.00	0.00	0.00	0.00	0.00	0.00	-0.11618	-0.023479	0.00	0.00	0.00	0.00
205	4	49 - 39	1	0.00	0.00	0.00	0.00	0.00	0.00	0.148624	0.025448	0.00	0.00	0.00	0.00
205	4	49 - 39	2	0.00	0.00	0.00	0.00	0.00	0.00	0.044831	0.007735	0.00	0.00	0.00	0.00
205	4	49 - 39	3	0.00	0.00	0.00	0.00	0.00	0.00	0.118899	0.020359	0.00	0.00	0.00	0.00
207	4	78 - 49	1	0.00	0.00	0.00	0.00	0.00	0.00	0.138672	0.037386	0.00	0.00	0.00	0.00
207	4	78 - 49	2	0.00	0.00	0.00	0.00	0.00	0.00	0.041837	0.011338	0.00	0.00	0.00	0.00
207	4	78 - 49	3	0.00	0.00	0.00	0.00	0.00	0.00	0.110937	0.029909	0.00	0.00	0.00	0.00
208	4	87 - 58	1	0.00	0.00	0.00	0.00	0.00	0.00	-0.145225	-0.029348	0.00	0.00	0.00	0.00
208	4	87 - 58	2	0.00	0.00	0.00	0.00	0.00	0.00	-0.043327	-0.008696	0.00	0.00	0.00	0.00
208	4	87 - 58	3	0.00	0.00	0.00	0.00	0.00	0.00	-0.11618	-0.023479	0.00	0.00	0.00	0.00
211	4	107 - 78	1	0.00	0.00	0.00	0.00	0.00	0.00	0.138672	0.037386	0.00	0.00	0.00	0.00
211	4	107 - 78	2	0.00	0.00	0.00	0.00	0.00	0.00	0.041837	0.011338	0.00	0.00	0.00	0.00
211	4	107 - 78	3	0.00	0.00	0.00	0.00	0.00	0.00	0.110937	0.029909	0.00	0.00	0.00	0.00
212	4	125 - 87	1	0.00	0.00	0.00	0.00	0.00	0.00	-0.145225	-0.029348	0.00	0.00	0.00	0.00
212	4	125 - 87	2	0.00	0.00	0.00	0.00	0.00	0.00	-0.043327	-0.008696	0.00	0.00	0.00	0.00
212	4	125 - 87	3	0.00	0.00	0.00	0.00	0.00	0.00	-0.11618	-0.023479	0.00	0.00	0.00	0.00
215	4	145 - 107	1	0.00	0.00	0.00	0.00	0.00	0.00	0.138672	0.037386	0.00	0.00	0.00	0.00
215	4	145 - 107	2	0.00	0.00	0.00	0.00	0.00	0.00	0.041837	0.011338	0.00	0.00	0.00	0.00
215	4	145 - 107	3	0.00	0.00	0.00	0.00	0.00	0.00	0.110937	0.029909	0.00	0.00	0.00	0.00
216	4	163 - 125	1	0.00	0.00	0.00	0.00	0.00	0.00	-0.145225	-0.029348	0.00	0.00	0.00	0.00
216	4	163 - 125	2	0.00	0.00	0.00	0.00	0.00	0.00	-0.043327	-0.008696	0.00	0.00	0.00	0.00
216	4	163 - 125	3	0.00	0.00	0.00	0.00	0.00	0.00	-0.11618	-0.023479	0.00	0.00	0.00	0.00
220	4	192 - 163	1	0.00	0.00	0.00	0.00	0.00	0.00	-0.171682	-0.003936	0.00	0.00	0.00	0.00
220	4	192 - 163	2	0.00	0.00	0.00	0.00	0.00	0.00	-0.051243	-0.001141	0.00	0.00	0.00	0.00
220	4	192 - 163	3	0.00	0.00	0.00	0.00	0.00	0.00	-0.137346	-0.003149	0.00	0.00	0.00	0.00
225	4	192 - 210	1	0.00	0.00	0.00	0.00	0.00	0.00	0.128663	0.051006	0.00	0.00	0.00	0.00
225	4	192 - 210	2	0.00	0.00	0.00	0.00	0.00	0.00	0.038826	0.015445	0.00	0.00	0.00	0.00
225	4	192 - 210	3	0.00	0.00	0.00	0.00	0.00	0.00	0.10293	0.040805	0.00	0.00	0.00	0.00
227	4	210 - 219	1	0.00	0.00	0.00	0.00	0.00	0.00	0.128663	0.051006	0.00	0.00	0.00	0.00
227	4	210 - 219	2	0.00	0.00	0.00	0.00	0.00	0.00	0.038826	0.015445	0.00	0.00	0.00	0.00
227	4	210 - 219	3	0.00	0.00	0.00	0.00	0.00	0.00	0.10293	0.040805	0.00	0.00	0.00	0.00
229	4	219 - 259	1	0.00	0.00	0.00	0.00	0.00	0.00	2.053814	0.578041	0.00	0.00	0.00	0.00
229	4	219 - 259	2	0.00	0.00	0.00	0.00	0.00	0.00	1.250232	0.352196	0.00	0.00	0.00	0.00
229	4	219 - 259	3	0.00	0.00	0.00	0.00	0.00	0.00	3.33051	0.937364	0.00	0.00	0.00	0.00
233	4	259 - 241	1	0.00	0.00	0.00	0.00	0.00	0.00	0.146705	0.027628	0.00	0.00	0.00	0.00
233	4	259 - 241	2	0.00	0.00	0.00	0.00	0.00	0.00	0.044254	0.008394	0.00	0.00	0.00	0.00
233	4	259 - 241	3	0.00	0.00	0.00	0.00	0.00	0.00	0.117364	0.022102	0.00	0.00	0.00	0.00

3.8 Armature degli elementi strutturali

Le verifiche effettuate sulla struttura sono state eseguite considerando le configurazioni di armatura descritte nei paragrafi seguenti.

3.8.1 Armature dei Nodi

I dati seguenti riportano la configurazione delle armature relative ai nodi della struttura:

Nodo : Nodo di input (vedi "Nodo I." in "Caratteristiche dei Nodi");
 Imp. : Impalcato di appartenenza del nodo;
 Mat. : Nome del materiale delle armature (vedi "Elenco e Caratteristiche dei materiali");
 Arm. Trasv. : Armature trasversali;
 NBx : Numero di bracci delle staffe in direzione 2;
 NBy : Numero di bracci delle staffe in direzione 3;

Nodo	Imp.	Mat.	Arm. Trasv.
Blocco 1			
Nodo 2	Impalcato 1	Barre (1)	$\varnothing 10/5.00$ (NBx=2) $\varnothing 10/5.00$ (NBy=2)
Nodo 7	Impalcato 1	Barre (1)	$\varnothing 10/5.00$ (NBx=2) $\varnothing 10/5.00$ (NBy=2)

Nodo 12	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 15	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 17	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 20	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 22	Impalcato 1	Barre (1)	Ø8/11.00 (NBx=2) Ø8/11.00 (NBy=2)
Nodo 27	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 30	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 32	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 35	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 37	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 42	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 45	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 47	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 50	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 52	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Nodo 53	Impalcato 2	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 58	Impalcato 2	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 63	Impalcato 2	Barre (1)	Ø8/6.00 (NBx=2) Ø8/6.00 (NBy=2)
Nodo 72	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 75	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 77	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 80	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 82	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Nodo 83	Impalcato 2	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 88	Impalcato 2	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 93	Impalcato 2	Barre (1)	Ø8/5.00 (NBx=2) Ø8/5.00 (NBy=2)
Nodo 102	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 105	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 107	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Nodo 110	Impalcato 4	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 112	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 113	Impalcato 2	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 117	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 122	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 127	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)

Nodo 132	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Nodo 137	Impalcato 1	Barre (1)	Ø8/6.00 (NBx=2) Ø8/6.00 (NBy=2)
Nodo 142	Impalcato 1	Barre (1)	Ø8/10.00 (NBx=2) Ø8/10.00 (NBy=2)
Nodo 143	Impalcato 2	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 147	Impalcato 1	Barre (1)	Ø8/6.00 (NBx=2) Ø8/6.00 (NBy=2)
Nodo 152	Impalcato 1	Barre (1)	Ø10/5.00 (NBx=2) Ø10/5.00 (NBy=2)
Nodo 157	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Nodo 222	Impalcato 1	Barre (1)	Ø8/10.00 (NBx=2) Ø8/10.00 (NBy=2)
Nodo 227	Impalcato 1	Barre (1)	Ø8/12.00 (NBx=2) Ø8/12.00 (NBy=2)
Nodo 232	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Nodo 237	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Nodo 242	Impalcato 1	Barre (1)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)

3.8.2 Armature di Travi/Aste

I dati seguenti riportano la configurazione delle armature relative alle aste della struttura:

Trave	: Trave di input (vedi "Asta I." in "Caratteristiche delle Aste");
Asta	: Numerazione interna dell'asta (vedi "Asta C." in "Caratteristiche delle Aste");
Imp.	: Impalcato di appartenenza dell'asta;
Nodi	: Nodi ai quali appartiene l'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
Tipo Sez.	: Tipologia della sezione dell'asta (vedi "Elenco e caratteristiche delle sezioni trasversali");
Cop.	: Copriferro delle armature;
ID Sez.	: Indice progressivo per la definizione delle armature della sezione;
Mat.	: Nome del materiale delle armature (vedi "Elenco e Caratteristiche dei materiali");
Arm. Long.	: Armature longitudinali;
(R)	: Simbologia per i reggistaffe;
(S)	: Simbologia per l'armatura posta nel lembo estremo superiore al baricentro;
(I)	: Simbologia per l'armatura posta nel lembo estremo inferiore al baricentro;
(L)	: Simbologia per le armature longitudinali;
(P)	: Simbologia per le armature di parete;
Arm. Trasv.	: Armature trasversali;
NBx	: Numero di bracci delle staffe in direzione 2;
NBy	: Numero di bracci delle staffe in direzione 3;

Trave	Asta	Imp.	Nodi	Tipo Sez.	Cop.	ID Sez.	Mat.	Arm. Long.	Arm. Trasv.		
					[cm]				Blocco 1	Blocco 2	Blocco 3
Asta 7 (16-21)	37	Impalcato 0	31-41	2	2.50	1	Barre (1)	4Ø16(R) 5Ø16(S) 4Ø16(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 7 (16-21)	37	Impalcato 0	31-41	2	2.50	2	Barre (1)	4Ø16(R) 3Ø16(S) 3Ø16(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 7 (16-21)	37	Impalcato 0	31-41	2	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 7 (16-21)	37	Impalcato 0	31-41	2	2.50	4	Barre (1)	4Ø16(R) 1Ø16(I)	Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2)

Asta 22 (66-51)	52	Impalcato 0	114-99	2	2.50	6	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 22 (66-51)	52	Impalcato 0	114-99	2	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	1	Barre (1)	4Ø14(R) 4Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	2	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	3	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	4	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	5	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	6	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	8	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 24 (56-66)	54	Impalcato 0	108-114	2	2.50	9	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 27 (81-66)	57	Impalcato 0	137-114	2	2.50	1	Barre (1)	4Ø14(R) 3Ø14(S) 4Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 27 (81-66)	57	Impalcato 0	137-114	2	2.50	2	Barre (1)	4Ø14(R) 2Ø14(S) 3Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 27 (81-66)	57	Impalcato 0	137-114	2	2.50	3	Barre (1)	4Ø14(R) 2Ø14(S) 3Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 27 (81-66)	57	Impalcato 0	137-114	2	2.50	4	Barre (1)	4Ø14(R) 2Ø14(S) 3Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 27 (81-66)	57	Impalcato 0	137-114	2	2.50	5	Barre (1)	4Ø14(R) 2Ø14(S) 3Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 27 (81-66)	57	Impalcato 0	137-114	2	2.50	6	Barre (1)	4Ø14(R) 2Ø14(S) 3Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 27 (81-66)	57	Impalcato 0	137-114	2	2.50	7	Barre (1)	4Ø14(R) 2Ø14(S) 3Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)

									Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2)
Asta 49 (151-141)	79	Impalcato 0	242-229	2	2.50	2	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 49 (151-141)	79	Impalcato 0	242-229	2	2.50	3	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 49 (151-141)	79	Impalcato 0	242-229	2	2.50	4	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 49 (151-141)	79	Impalcato 0	242-229	2	2.50	5	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 49 (151-141)	79	Impalcato 0	242-229	2	2.50	6	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 49 (151-141)	79	Impalcato 0	242-229	2	2.50	7	Barre (1)	4Ø14(R) 5Ø14(S) 3Ø14(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 51 (12-2)	81	Impalcato 1	27-7	4	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-

Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 52 (2-222)	82	Impalcato 1	7-278	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	2	Barre (1)	4Ø24(R) 2Ø24(S) 1Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	3	Barre (1)	4Ø24(R) 1Ø24(S)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	4	Barre (1)	4Ø24(R) 1Ø24(S)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	5	Barre (1)	4Ø24(R) 1Ø24(S)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	6	Barre (1)	4Ø24(R) 1Ø24(S)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	7	Barre (1)	4Ø24(R) 1Ø24(S)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	8	Barre (1)	4Ø24(R) 1Ø24(S) 1Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 53 (7-17)	83	Impalcato 1	17-37	4	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NBx=2)	-	-

									Ø8/20.00 (NB _y =2)		
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 54 (222-7)	84	Impalcato 1	278-17	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	1	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	2	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	3	Barre (1)	4Ø20(R) 1Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	4	Barre (1)	4Ø20(R)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	5	Barre (1)	4Ø20(R)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	6	Barre (1)	4Ø20(R)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-

Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	7	Barre (1)	4Ø20(R) 1Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	8	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 55 (27-12)	85	Impalcato 1	56-27	4	2.50	9	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 56 (12- 227)	86	Impalcato 1	27-285	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S)	Ø8/15.00 (NBx=2)	-	-

								3Ø24(I) 4Ø10(P)	Ø8/15.00 (NB _y =2)		
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 57 (22-17)	87	Impalcato 1	47-37	6	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	1	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	2	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	3	Barre (1)	4Ø20(R) 1Ø20(S) 1Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	4	Barre (1)	4Ø20(R)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	5	Barre (1)	4Ø20(R)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	6	Barre (1)	4Ø20(R)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	7	Barre (1)	4Ø20(R) 1Ø20(S) 1Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	8	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 58 (17-32)	88	Impalcato 1	37-66	4	2.50	9	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-

Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 59 (227-17)	89	Impalcato 1	285-37	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	1	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	2	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	3	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	4	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	5	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	6	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	8	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 60 (37-22)	90	Impalcato 1	76-47	6	2.50	9	Barre (1)	4Ø14(R) 5Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	1	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NBx=2)	-	-

									Ø8/20.00 (NBx=2)		
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	2	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	3	Barre (1)	4Ø20(R) 1Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	4	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	5	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	6	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	7	Barre (1)	4Ø20(R) 1Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	8	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 61 (42-27)	91	Impalcato 1	85-56	4	2.50	9	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	2	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	3	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	4	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	5	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	6	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	7	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	8	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	9	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-

Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	10	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 62 (27-232)	92	Impalcato 1	56-292	5	2.50	11	Barre (1)	4Ø24(R) 2Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	1	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	2	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	3	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	4	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	5	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	6	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	7	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	8	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	9	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	10	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 63 (37-32)	93	Impalcato 1	76-66	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	1	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	2	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	3	Barre (1)	4Ø20(R) 1Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	4	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	5	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2)	-	-

									Ø8/20.00 (NBx=2)		
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	6	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	7	Barre (1)	4Ø20(R) 1Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	8	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 64 (32-47)	94	Impalcato 1	66-95	4	2.50	9	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 65 (232-32)	95	Impalcato 1	292-66	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	1	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	2	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-

Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	3	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	4	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	5	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	6	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	7	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	8	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 66 (52-37)	96	Impalcato 1	105-76	6	2.50	9	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	1	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	2	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	3	Barre (1)	4Ø20(R) 1Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	4	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	5	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	6	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	7	Barre (1)	4Ø20(R) 1Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	8	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 67 (72-42)	97	Impalcato 1	123-85	4	2.50	9	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	2	Barre (1)	4Ø24(R) 2Ø24(S)	Ø8/15.00 (NBx=2)	-	-

								2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2)		
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	3	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	4	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	5	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	6	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	7	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	8	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	9	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	10	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 68 (42-237)	98	Impalcato 1	85-299	5	2.50	11	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-

Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 69 (52-47)	99	Impalcato 1	105-95	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	1	Barre (1)	4Ø20(R) 4Ø20(S) 4Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	2	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	3	Barre (1)	4Ø20(R) 1Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	4	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	5	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	6	Barre (1)	4Ø20(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	7	Barre (1)	4Ø20(R) 1Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	8	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 70 (47-77)	100	Impalcato 1	95-133	4	2.50	9	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S)	Ø8/15.00 (NBx=2)	-	-

								1Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _y =2)		
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 71 (237-47)	101	Impalcato 1	299-95	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 72 (67-52)	102	Impalcato 1	115-105	6	2.50	1	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 72 (67-52)	102	Impalcato 1	115-105	6	2.50	2	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 72 (67-52)	102	Impalcato 1	115-105	6	2.50	3	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 72 (67-52)	102	Impalcato 1	115-105	6	2.50	4	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 72 (67-52)	102	Impalcato 1	115-105	6	2.50	5	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 73 (82-67)	103	Impalcato 1	143-115	6	2.50	1	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 73 (82-67)	103	Impalcato 1	143-115	6	2.50	2	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 73 (82-67)	103	Impalcato 1	143-115	6	2.50	3	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 73 (82-67)	103	Impalcato 1	143-115	6	2.50	4	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 73 (82-67)	103	Impalcato 1	143-115	6	2.50	5	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	2	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-

Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	3	Barre (1)	4Ø24(R) 1Ø24(S) 1Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	4	Barre (1)	4Ø24(R) 1Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	5	Barre (1)	4Ø24(R) 1Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	6	Barre (1)	4Ø24(R) 1Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	7	Barre (1)	4Ø24(R) 1Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	8	Barre (1)	4Ø24(R) 2Ø24(S) 2Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 74 (102-72)	104	Impalcato 1	161-123	4	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 75 (72-242)	105	Impalcato 1	123-306	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S)	Ø8/15.00 (NBx=2)	-	-

								3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _y =2)		
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 76 (82-77)	106	Impalcato 1	143- 133	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 77 (77- 107)	107	Impalcato 1	133- 171	4	2.50	1	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 77 (77- 107)	107	Impalcato 1	133- 171	4	2.50	2	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 77 (77- 107)	107	Impalcato 1	133- 171	4	2.50	3	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 77 (77- 107)	107	Impalcato 1	133- 171	4	2.50	4	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 77 (77- 107)	107	Impalcato 1	133- 171	4	2.50	5	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 77 (77- 107)	107	Impalcato 1	133- 171	4	2.50	6	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-

Asta 77 (77-107)	107	Impalcato 1	133-171	4	2.50	7	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 77 (77-107)	107	Impalcato 1	133-171	4	2.50	8	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 77 (77-107)	107	Impalcato 1	133-171	4	2.50	9	Barre (1)	4Ø20(R) 4Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 78 (242-77)	108	Impalcato 1	306-133	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 79 (97-82)	109	Impalcato 1	153-143	6	2.50	1	Barre (1)	4Ø14(R) 1Ø14(S) 5Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 79 (97-82)	109	Impalcato 1	153-143	6	2.50	2	Barre (1)	4Ø14(R) 1Ø14(S) 5Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 79 (97-82)	109	Impalcato 1	153-143	6	2.50	3	Barre (1)	4Ø14(R) 1Ø14(S) 5Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 80 (112-97)	110	Impalcato 1	181-153	6	2.50	1	Barre (1)	4Ø14(R) 3Ø14(S)	Ø8/15.00 (NBx=2)	-	-

								5Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _y =2)		
Asta 80 (112-97)	110	Impalcato 1	181-153	6	2.50	2	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 80 (112-97)	110	Impalcato 1	181-153	6	2.50	3	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 80 (112-97)	110	Impalcato 1	181-153	6	2.50	4	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 80 (112-97)	110	Impalcato 1	181-153	6	2.50	5	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 80 (112-97)	110	Impalcato 1	181-153	6	2.50	6	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 80 (112-97)	110	Impalcato 1	181-153	6	2.50	7	Barre (1)	4Ø14(R) 1Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 81 (102-117)	111	Impalcato 1	161-190	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 81 (102-117)	111	Impalcato 1	161-190	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 81 (102-117)	111	Impalcato 1	161-190	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 81 (102-117)	111	Impalcato 1	161-190	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 81 (102-117)	111	Impalcato 1	161-190	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 81 (102-117)	111	Impalcato 1	161-190	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 81 (102-117)	111	Impalcato 1	161-190	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-

Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	6	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	7	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	8	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	9	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	10	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 82 (112-107)	112	Impalcato 1	181-171	5	2.50	11	Barre (1)	4Ø24(R) 3Ø24(S) 3Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 83 (122-107)	113	Impalcato 1	199-171	5	2.50	1	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 83 (122-107)	113	Impalcato 1	199-171	5	2.50	2	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 83 (122-107)	113	Impalcato 1	199-171	5	2.50	3	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 83 (122-107)	113	Impalcato 1	199-171	5	2.50	4	Barre (1)	4Ø24(R) 3Ø24(S) 1Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 83 (122-107)	113	Impalcato 1	199-171	5	2.50	5	Barre (1)	4Ø24(R) 3Ø24(S) 2Ø24(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 84 (142-112)	114	Impalcato 1	235-181	6	2.50	1	Barre (1)	4Ø14(R) 5Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 84 (142-112)	114	Impalcato 1	235-181	6	2.50	2	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 84 (142-112)	114	Impalcato 1	235-181	6	2.50	3	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 84 (142-112)	114	Impalcato 1	235-181	6	2.50	4	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 84 (142-112)	114	Impalcato 1	235-181	6	2.50	5	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 84 (142-112)	114	Impalcato 1	235-181	6	2.50	6	Barre (1)	4Ø14(R) 3Ø14(S)	Ø8/15.00 (NBx=2)	-	-

								1Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _y =2)		
Asta 84 (142-112)	114	Impalcato 1	235-181	6	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	1	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	2	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	3	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	4	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	5	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	6	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	7	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	8	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	9	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	10	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 85 (117-122)	115	Impalcato 1	190-199	5	2.50	11	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	1	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	2	Barre (1)	4Ø16(R) 3Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	3	Barre (1)	4Ø16(R) 1Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	4	Barre (1)	4Ø16(R) 1Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	5	Barre (1)	4Ø16(R) 1Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-

Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	6	Barre (1)	4Ø16(R) 1Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	7	Barre (1)	4Ø16(R) 1Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	8	Barre (1)	4Ø16(R) 1Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	9	Barre (1)	4Ø16(R) 1Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	10	Barre (1)	4Ø16(R) 1Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 86 (117-127)	116	Impalcato 1	190-208	6	2.50	11	Barre (1)	4Ø16(R) 3Ø16(S) 4Ø16(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 87 (122-137)	117	Impalcato 1	199-226	5	2.50	1	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 87 (122-137)	117	Impalcato 1	199-226	5	2.50	2	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 87 (122-137)	117	Impalcato 1	199-226	5	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 87 (122-137)	117	Impalcato 1	199-226	5	2.50	4	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 87 (122-137)	117	Impalcato 1	199-226	5	2.50	5	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 87 (122-137)	117	Impalcato 1	199-226	5	2.50	6	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 87 (122-137)	117	Impalcato 1	199-226	5	2.50	7	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	1	Barre (1)	4Ø14(R) 5Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	2	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	3	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	4	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	5	Barre (1)	4Ø14(R) 3Ø14(S)	Ø8/15.00 (NBx=2)	-	-

								3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _y =2)		
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	6	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	8	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	9	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	10	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 88 (127-132)	118	Impalcato 1	208-217	6	2.50	11	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 89 (137-132)	119	Impalcato 1	226-217	5	2.50	1	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 89 (137-132)	119	Impalcato 1	226-217	5	2.50	2	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 89 (137-132)	119	Impalcato 1	226-217	5	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 89 (137-132)	119	Impalcato 1	226-217	5	2.50	4	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 89 (137-132)	119	Impalcato 1	226-217	5	2.50	5	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 89 (137-132)	119	Impalcato 1	226-217	5	2.50	6	Barre (1)	4Ø16(R) 2Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 89 (137-132)	119	Impalcato 1	226-217	5	2.50	7	Barre (1)	4Ø16(R) 4Ø16(S) 3Ø16(I) 2Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	1	Barre (1)	4Ø14(R) 3Ø14(S) 5Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	2	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	3	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-
Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	4	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NB _x =2) Ø8/15.00 (NB _y =2)	-	-

Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	5	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	6	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	8	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 90 (132-157)	120	Impalcato 1	217-257	6	2.50	9	Barre (1)	4Ø14(R) 5Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	1	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	2	Barre (1)	4Ø14(R) 2Ø14(S) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	3	Barre (1)	4Ø14(R) 2Ø14(S) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	4	Barre (1)	4Ø14(R) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	5	Barre (1)	4Ø14(R) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	6	Barre (1)	4Ø14(R) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	7	Barre (1)	4Ø14(R) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	8	Barre (1)	4Ø14(R) 2Ø14(S) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 91 (137-152)	121	Impalcato 1	226-248	5	2.50	9	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 92 (142-147)	122	Impalcato 1	235-239	6	2.50	1	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 92 (142-147)	122	Impalcato 1	235-239	6	2.50	2	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 92 (142-147)	122	Impalcato 1	235-239	6	2.50	3	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 92 (142-147)	122	Impalcato 1	235-239	6	2.50	4	Barre (1)	4Ø14(R) 1Ø14(S)	Ø8/15.00 (NBx=2)	-	-

								1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2)		
Asta 92 (142-147)	122	Impalcato 1	235-239	6	2.50	5	Barre (1)	4Ø14(R) 5Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 93 (152-142)	123	Impalcato 1	248-235	5	2.50	1	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 93 (152-142)	123	Impalcato 1	248-235	5	2.50	2	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 93 (152-142)	123	Impalcato 1	248-235	5	2.50	3	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 93 (152-142)	123	Impalcato 1	248-235	5	2.50	4	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 93 (152-142)	123	Impalcato 1	248-235	5	2.50	5	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 93 (152-142)	123	Impalcato 1	248-235	5	2.50	6	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 93 (152-142)	123	Impalcato 1	248-235	5	2.50	7	Barre (1)	4Ø14(R) 5Ø14(S) 2Ø14(I) 2Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 94 (157-147)	124	Impalcato 1	257-239	6	2.50	1	Barre (1)	4Ø14(R) 3Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 94 (157-147)	124	Impalcato 1	257-239	6	2.50	2	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 94 (157-147)	124	Impalcato 1	257-239	6	2.50	3	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 94 (157-147)	124	Impalcato 1	257-239	6	2.50	4	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 94 (157-147)	124	Impalcato 1	257-239	6	2.50	5	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 94 (157-147)	124	Impalcato 1	257-239	6	2.50	6	Barre (1)	4Ø14(R) 1Ø14(S) 1Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 94 (157-147)	124	Impalcato 1	257-239	6	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I) 4Ø10(P)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	-	-
Asta 130 (68-53)	160	Impalcato 2	116-106	9	2.50	1	Barre (1)	4Ø14(R)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 130 (68-53)	160	Impalcato 2	116-106	9	2.50	2	Barre (1)	4Ø14(R)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)

Asta 130 (68-53)	160	Impalcato 2	116-106	9	2.50	3	Barre (1)	4Ø14(R)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 130 (68-53)	160	Impalcato 2	116-106	9	2.50	4	Barre (1)	4Ø14(R)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 130 (68-53)	160	Impalcato 2	116-106	9	2.50	5	Barre (1)	4Ø14(R)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	1	Barre (1)	4Ø20(R) 1Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	2	Barre (1)	4Ø20(R) 1Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	3	Barre (1)	4Ø20(R) 1Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	4	Barre (1)	4Ø20(R) 1Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	5	Barre (1)	4Ø20(R) 1Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	6	Barre (1)	4Ø20(R) 1Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	7	Barre (1)	4Ø20(R) 1Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	8	Barre (1)	4Ø20(R) 1Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 131 (63-58)	161	Impalcato 2	113-110	10	2.50	9	Barre (1)	4Ø20(R) 2Ø20(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	1	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	2	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	3	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	4	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	5	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	6	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2)	-	-

									Ø8/14.00 (NBx=2)		
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	7	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	8	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 132 (58-68)	162	Impalcato 2	110-116	10	2.50	9	Barre (1)	4Ø14(R) 4Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 133 (88-58)	163	Impalcato 2	148-110	10	2.50	1	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 133 (88-58)	163	Impalcato 2	148-110	10	2.50	2	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 133 (88-58)	163	Impalcato 2	148-110	10	2.50	3	Barre (1)	4Ø14(R)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 133 (88-58)	163	Impalcato 2	148-110	10	2.50	4	Barre (1)	4Ø14(R)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 133 (88-58)	163	Impalcato 2	148-110	10	2.50	5	Barre (1)	4Ø14(R)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 133 (88-58)	163	Impalcato 2	148-110	10	2.50	6	Barre (1)	4Ø14(R) 2Ø14(S) 1Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 133 (88-58)	163	Impalcato 2	148-110	10	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 2Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 134 (93-63)	164	Impalcato 2	151-113	10	2.50	1	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 134 (93-63)	164	Impalcato 2	151-113	10	2.50	2	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 134 (93-63)	164	Impalcato 2	151-113	10	2.50	3	Barre (1)	4Ø14(R) 1Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 134 (93-63)	164	Impalcato 2	151-113	10	2.50	4	Barre (1)	4Ø14(R)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 134 (93-63)	164	Impalcato 2	151-113	10	2.50	5	Barre (1)	4Ø14(R)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 134 (93-63)	164	Impalcato 2	151-113	10	2.50	6	Barre (1)	4Ø14(R) 2Ø14(S) 2Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-
Asta 134 (93-63)	164	Impalcato 2	151-113	10	2.50	7	Barre (1)	4Ø14(R) 3Ø14(S) 3Ø14(I)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBx=2)	-	-

Asta 135 (83-68)	165	Impalcato 2	144-116	9	2.50	1	Barre (1)	4Ø20(R) 3Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 135 (83-68)	165	Impalcato 2	144-116	9	2.50	2	Barre (1)	4Ø20(R) 2Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 135 (83-68)	165	Impalcato 2	144-116	9	2.50	3	Barre (1)	4Ø20(R) 2Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 135 (83-68)	165	Impalcato 2	144-116	9	2.50	4	Barre (1)	4Ø20(R) 2Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 135 (83-68)	165	Impalcato 2	144-116	9	2.50	5	Barre (1)	4Ø20(R) 2Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 135 (83-68)	165	Impalcato 2	144-116	9	2.50	6	Barre (1)	4Ø20(R) 2Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 135 (83-68)	165	Impalcato 2	144-116	9	2.50	7	Barre (1)	4Ø20(R) 2Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 136 (98-83)	166	Impalcato 2	154-144	9	2.50	1	Barre (1)	4Ø20(R) 1Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 136 (98-83)	166	Impalcato 2	154-144	9	2.50	2	Barre (1)	4Ø20(R) 1Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 136 (98-83)	166	Impalcato 2	154-144	9	2.50	3	Barre (1)	4Ø20(R) 2Ø20(S) 1Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	1	Barre (1)	4Ø14(R) 4Ø14(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	2	Barre (1)	4Ø14(R) 2Ø14(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	3	Barre (1)	4Ø14(R) 1Ø14(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	4	Barre (1)	4Ø14(R) 1Ø14(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	5	Barre (1)	4Ø14(R) 1Ø14(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	6	Barre (1)	4Ø14(R) 1Ø14(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	7	Barre (1)	4Ø14(R) 1Ø14(S)	Ø8/14.00 (NBx=2) Ø8/14.00 (NBy=2)	-	-
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	8	Barre (1)	4Ø14(R) 2Ø14(S)	Ø8/14.00 (NBx=2)	-	-

									Ø8/14.00 (NB _y =2)		
Asta 137 (88-93)	167	Impalcato 2	148-151	10	2.50	9	Barre (1)	4Ø14(R) 3Ø14(S)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	1	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	2	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	3	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	4	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	5	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	6	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	7	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	8	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 138 (98-88)	168	Impalcato 2	154-148	10	2.50	9	Barre (1)	4Ø14(R) 4Ø14(S) 4Ø14(I)	Ø8/14.00 (NB _x =2) Ø8/14.00 (NB _y =2)	-	-
Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	1	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	2	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	3	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	4	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	5	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	6	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-
Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	7	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NB _x =2) Ø8/20.00 (NB _y =2)	-	-

Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	8	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 139 (113-98)	169	Impalcato 2	182-154	9	2.50	9	Barre (1)	4Ø20(R) 2Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 140 (143-113)	170	Impalcato 2	236-182	9	2.50	1	Barre (1)	4Ø20(R) 3Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 140 (143-113)	170	Impalcato 2	236-182	9	2.50	2	Barre (1)	4Ø20(R) 3Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 140 (143-113)	170	Impalcato 2	236-182	9	2.50	3	Barre (1)	4Ø20(R) 3Ø20(S)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 140 (143-113)	170	Impalcato 2	236-182	9	2.50	4	Barre (1)	4Ø20(R) 3Ø20(S)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 140 (143-113)	170	Impalcato 2	236-182	9	2.50	5	Barre (1)	4Ø20(R) 3Ø20(S)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 140 (143-113)	170	Impalcato 2	236-182	9	2.50	6	Barre (1)	4Ø20(R) 3Ø20(S) 2Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 140 (143-113)	170	Impalcato 2	236-182	9	2.50	7	Barre (1)	4Ø20(R) 3Ø20(S) 3Ø20(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	1	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	2	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	3	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	4	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	5	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	6	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	7	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	8	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 231 (15-5)	261	Impalcato 4	30-10	2	2.50	9	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2)

									Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	1	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	2	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	3	Barre (1)	4Ø18(R) 4Ø18(S) 2Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	4	Barre (1)	4Ø18(R) 4Ø18(S)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	5	Barre (1)	4Ø18(R) 4Ø18(S)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	6	Barre (1)	4Ø18(R) 4Ø18(S)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	7	Barre (1)	4Ø18(R) 4Ø18(S) 2Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	8	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 233 (20-10)	263	Impalcato 4	40-20	2	2.50	9	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBx=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBx=2)
Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	1	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	2	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	4	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	5	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	6	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	7	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	8	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-

Asta 236 (30-15)	266	Impalcato 4	59-30	2	2.50	9	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	1	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	2	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	4	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	5	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	6	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	7	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	8	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 238 (35-20)	268	Impalcato 4	69-40	2	2.50	9	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	1	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	2	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	4	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	5	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	6	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	7	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	8	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2)	-	-

									Ø8/20.00 (NBx=2)		
Asta 241 (45-30)	271	Impalcato 4	88-59	2	2.50	9	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	1	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	2	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	4	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	5	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	6	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	7	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	8	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 243 (50-35)	273	Impalcato 4	98-69	2	2.50	9	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	1	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	2	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	4	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	5	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	6	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	7	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-

Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	8	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 246 (75-45)	276	Impalcato 4	126-88	2	2.50	9	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	1	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	2	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	3	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	4	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	5	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	6	Barre (1)	4Ø16(R)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	7	Barre (1)	4Ø16(R) 2Ø16(S) 2Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	8	Barre (1)	4Ø16(R) 4Ø16(S) 4Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 248 (80-50)	278	Impalcato 4	136-98	2	2.50	9	Barre (1)	4Ø16(R) 5Ø16(S) 5Ø16(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	1	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	2	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	3	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	4	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	5	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	6	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBy=2)	-	-
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	7	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2)	-	-

									Ø8/20.00 (NBx=2)		
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	8	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 251 (105-75)	281	Impalcato 4	164-126	2	2.50	9	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	1	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	2	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	3	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	4	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	5	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	6	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	7	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	8	Barre (1)	4Ø18(R) 4Ø18(S) 3Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-
Asta 253 (110-80)	283	Impalcato 4	174-136	2	2.50	9	Barre (1)	4Ø18(R) 4Ø18(S) 4Ø18(I)	Ø8/20.00 (NBx=2) Ø8/20.00 (NBx=2)	-	-

3.8.3 Armature dei Pilastri

I dati seguenti riportano la configurazione delle armature relative ai pilastri della struttura:

Pilastro	: Pilastro di input (vedi "Asta I." in "Caratteristiche delle Aste");
Asta	: Numerazione interna dell'asta (vedi "Asta C." in "Caratteristiche delle Aste");
Imp.	: Impalcato di appartenenza dell'asta;
Nodi	: Nodi ai quali appartiene l'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
Tipo Sez.	: Tipologia della sezione dell'asta (vedi "Elenco e caratteristiche delle sezioni trasversali");
Cop.	: Copriferro delle armature;
ID Sez.	: Indice della sezione di input;
Mat.	: Nome del materiale delle armature (vedi "Elenco e Caratteristiche dei materiali");
Arm. Long.	: Armature longitudinali;
(R)	: Simbologia per i reggistaffe;
(L)	: Simbologia per le armature longitudinali;
(P)	: Simbologia per le armature di parete;
Arm. Trasv.	: Armature trasversali;
NBx	: Numero di bracci delle staffe in direzione 2;

NB_y : Numero di bracci delle staffe in direzione 3;

Pilastro	Asta	Imp.	Nodi	Tipo Sez.	Cop.	ID Sez.	Mat.	Arm. Long.	Arm. Trasv.		
					[cm]				Blocco 1	Blocco 2	Blocco 3
Asta 99 (22-21)	129	-	47-41	2	2.50	1	Barre (1)	4Ø14(R) 16Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NB _y =2)	-	-
Asta 99 (22-21)	129	-	47-41	2	2.50	2	Barre (1)	4Ø14(R) 16Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NB _y =2)	-	-
Asta 102 (37-36)	132	-	76-70	2	2.50	1	Barre (1)	4Ø18(R) 10Ø18(L)	Ø8/12.00 (NBx=2) Ø8/12.00 (NB _y =2)	-	-
Asta 102 (37-36)	132	-	76-70	2	2.50	2	Barre (1)	4Ø18(R) 10Ø18(L)	Ø8/12.00 (NBx=2) Ø8/12.00 (NB _y =2)	-	-
Asta 105 (52-51)	135	-	105-99	2	2.50	1	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NB _y =2)	-	-
Asta 105 (52-51)	135	-	105-99	2	2.50	2	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NB _y =2)	-	-
Asta 110 (82-81)	140	-	143-137	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NB _y =2)	-	-
Asta 110 (82-81)	140	-	143-137	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NB _y =2)	-	-
Asta 115 (112-111)	145	-	181-175	2	2.50	1	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/12.00 (NBx=2) Ø8/12.00 (NB _y =2)	-	-
Asta 115 (112-111)	145	-	181-175	2	2.50	2	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/12.00 (NBx=2) Ø8/12.00 (NB _y =2)	-	-
Asta 116 (117-116)	146	-	190-184	2	2.50	1	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NB _y =2)	-	-
Asta 116 (117-116)	146	-	190-184	2	2.50	2	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NB _y =2)	-	-
Asta 117 (122-121)	147	-	199-193	2	2.50	1	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/17.00 (NBx=2) Ø8/17.00 (NB _y =2)	-	-
Asta 117 (122-121)	147	-	199-193	2	2.50	2	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/17.00 (NBx=2) Ø8/17.00 (NB _y =2)	-	-
Asta 118 (127-126)	148	-	208-202	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NB _y =2)	-	-
Asta 118 (127-126)	148	-	208-202	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NB _y =2)	-	-
Asta 119 (132-131)	149	-	217-211	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/15.00 (NBx=2)	-	-

									Ø8/15.00 (NBy=2)		
Asta 119 (132-131)	149	-	217-211	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 120 (137-136)	150	-	226-220	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 120 (137-136)	150	-	226-220	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 121 (142-141)	151	-	235-229	2	2.50	1	Barre (1)	4Ø18(R) 10Ø18(L)	Ø8/10.00 (NBx=2) Ø8/10.00 (NBy=2)	-	-
Asta 121 (142-141)	151	-	235-229	2	2.50	2	Barre (1)	4Ø18(R) 10Ø18(L)	Ø8/10.00 (NBx=2) Ø8/10.00 (NBy=2)	-	-
Asta 123 (152-151)	153	-	248-242	2	2.50	1	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/17.00 (NBx=2) Ø8/17.00 (NBy=2)	-	-
Asta 123 (152-151)	153	-	248-242	2	2.50	2	Barre (1)	4Ø16(R) 12Ø16(L)	Ø8/17.00 (NBx=2) Ø8/17.00 (NBy=2)	-	-
Asta 125 (222-221)	155	-	278-272	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/10.00 (NBx=2) Ø8/10.00 (NBy=2)	-	-
Asta 125 (222-221)	155	-	278-272	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/10.00 (NBx=2) Ø8/10.00 (NBy=2)	-	-
Asta 126 (227-226)	156	-	285-279	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/12.00 (NBx=2) Ø8/12.00 (NBy=2)	-	-
Asta 126 (227-226)	156	-	285-279	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/12.00 (NBx=2) Ø8/12.00 (NBy=2)	-	-
Asta 127 (232-231)	157	-	292-286	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 127 (232-231)	157	-	292-286	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 128 (237-236)	158	-	299-293	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 128 (237-236)	158	-	299-293	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 129 (242-241)	159	-	306-300	2	2.50	1	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 129 (242-241)	159	-	306-300	2	2.50	2	Barre (1)	4Ø14(R) 18Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-

Asta 145 (23-22)	175	-	48-47	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 145 (23-22)	175	-	48-47	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 148 (38-37)	178	-	77-76	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 148 (38-37)	178	-	77-76	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 151 (53-52)	181	-	106- 105	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 151 (53-52)	181	-	106- 105	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 156 (83-82)	186	-	144- 143	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 156 (83-82)	186	-	144- 143	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 161 (113- 112)	191	-	182- 181	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 161 (113- 112)	191	-	182- 181	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 162 (118- 117)	192	-	191- 190	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 162 (118- 117)	192	-	191- 190	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 163 (123- 122)	193	-	200- 199	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 163 (123- 122)	193	-	200- 199	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 164 (128- 127)	194	-	209- 208	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 164 (128- 127)	194	-	209- 208	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 165 (133- 132)	195	-	218- 217	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 165 (133- 132)	195	-	218- 217	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2)	-	-

									Ø8/16.00 (NBy=2)		
Asta 166 (138-137)	196	-	227-226	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 166 (138-137)	196	-	227-226	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 167 (143-142)	197	-	236-235	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 167 (143-142)	197	-	236-235	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 169 (153-152)	199	-	249-248	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 169 (153-152)	199	-	249-248	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 208 (24-23)	238	-	49-48	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 208 (24-23)	238	-	49-48	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 211 (39-38)	241	-	78-77	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 211 (39-38)	241	-	78-77	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 214 (54-53)	244	-	107-106	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/6.00 (NBx=2) Ø8/6.00 (NBy=2)	-	-
Asta 214 (54-53)	244	-	107-106	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/6.00 (NBx=2) Ø8/6.00 (NBy=2)	-	-
Asta 217 (84-83)	247	-	145-144	11	2.50	1	Barre (1)	4Ø12(R)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 217 (84-83)	247	-	145-144	11	2.50	2	Barre (1)	4Ø12(R)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	Ø8/30.00 (NBx=2) Ø8/30.00 (NBy=2)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)
Asta 220 (114-113)	250	-	183-182	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø10/6.00 (NBx=2) Ø10/6.00 (NBy=2)	-	-
Asta 220 (114-113)	250	-	183-182	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø10/6.00 (NBx=2) Ø10/6.00 (NBy=2)	-	-
Asta 221 (119-118)	251	-	192-191	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-

Asta 221 (119-118)	251	-	192-191	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/15.00 (NBx=2) Ø8/15.00 (NBy=2)	-	-
Asta 222 (124-123)	252	-	201-200	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 222 (124-123)	252	-	201-200	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 223 (129-128)	253	-	210-209	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 223 (129-128)	253	-	210-209	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 224 (134-133)	254	-	219-218	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 224 (134-133)	254	-	219-218	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 225 (139-138)	255	-	228-227	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 225 (139-138)	255	-	228-227	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 226 (144-143)	256	-	237-236	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø10/6.00 (NBx=2) Ø10/6.00 (NBy=2)	-	-
Asta 226 (144-143)	256	-	237-236	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø10/6.00 (NBx=2) Ø10/6.00 (NBy=2)	-	-
Asta 228 (154-153)	258	-	250-249	11	2.50	1	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-
Asta 228 (154-153)	258	-	250-249	11	2.50	2	Barre (1)	4Ø14(R) 12Ø14(L)	Ø8/16.00 (NBx=2) Ø8/16.00 (NBy=2)	-	-

3.9.1 Elenco e caratteristiche dei materiali

Nell'ambito del progetto si è fatto uso dei seguenti materiali divisi per categoria di appartenenza:

3.9.1.1 Calcestruzzo

Nome	: Nome del materiale;
Classe	: Classe del calcestruzzo in base alla classificazione da normativa (fck/Rck);
fck	: Resistenza caratteristica cilindrica a compressione;
Rck	: Resistenza caratteristica cubica a compressione;
ν	: Modulo di Poisson;
ps	: Peso per unità di volume;
αT	: Coefficiente di dilatazione termica;
Ec	: Modulo elastico del materiale;
FC	: Fattore di confidenza (solo per costruzioni esistenti);
$\gamma_{m,c}$: Coefficiente parziale per le resistenze;
Ect/Ec	: Rapporto tra i moduli elastici a trazione e compressione;
fcm	: Resistenza media riscontrata (solo per costruzioni esistenti);
fcd SLU	: Resistenza di calcolo a compressione per gli SLU;
fctd SLU	: Resistenza di calcolo a trazione per gli SLU;
fcd SLD	: Resistenza di calcolo a compressione per gli SLD;
fctd SLD	: Resistenza di calcolo a trazione per gli SLD;
fctk,0.05	: Resistenza caratteristica a trazione;
fctm	: Resistenza media a trazione;
ϵ_{c2}	: Deformazione al raggiungimento della massima tensione di compressione;
ϵ_{cu2}	: Deformazione ultima di compressione del calcestruzzo.

Nome	Classe	ν	ps kN/m ³	αT 1/°C	Ec N/mm ²	FC	$\gamma_{m,c}$	Ect/Ec	fcm N/mm ²	Fcd SLU N/mm ²	fctd SLU N/mm ²	fcd SLD N/mm ²	fctd SLD N/mm ²	fctk,0.05 N/mm ²	fctm N/mm ²	ϵ_{c2} %	ϵ_{cu2} %
Cls (1)	C25/30	0.15	25.00	1E-05	31475.806	-	1.50	0.50	25.00	14.167	1.197	21.25	1.795	1.795	2.565	0.20	0.35
Cls esist	-	0.15	25.00	1E-05	29961.951	1.00	1.50	0.50	20.00	11.333	1.032	17.00	1.547	1.547	2.21	0.20	0.35

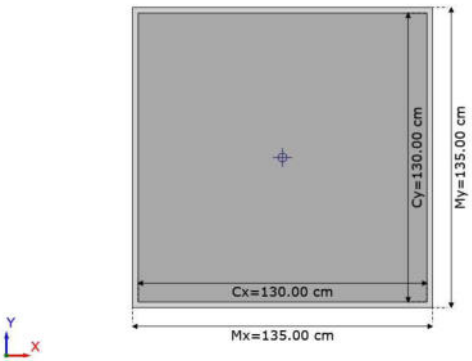
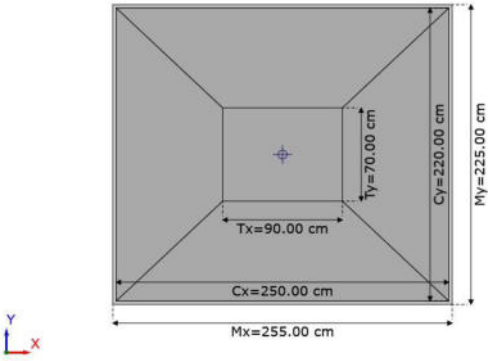
3.9.1.2 Acciaio per C.A.

Nome	: Nome del materiale;
Tipo	: Tipo di acciaio in base alla classificazione da normativa;
γ_m	: Coefficiente parziale per le resistenze;
FC	: Fattore di confidenza (solo per costruzioni esistenti);
Es	: Modulo elastico del materiale;
f _{yk}	: Resistenza caratteristica di snervamento a trazione;
f _{tk}	: Resistenza caratteristica a rottura a trazione;
f _d SLU	: Resistenza di calcolo a trazione per gli SLU;
f _d SLD	: Resistenza di calcolo a trazione per gli SLD;
f _d SLE	: Resistenza di calcolo a trazione per gli SLE;
k	: Rapporto di sovraresistenza (f _{tk} / f _{yk} > 1 per modello incrudente)
ϵ_{ud}	: Valore di calcolo della deformazione ultima a trazione.

Nome	Tipo	γ_m	FC	Es N/mm ²	f _{yk} N/mm ²	f _{tk} N/mm ²	f _d SLU N/mm ²	f _d SLD N/mm ²	f _d SLE N/mm ²	k	ϵ_{ud} %
Barre (1)	B450C	1.15	-	210000.00	450.00	540.00	391.304	450.00	391.304	1.20	1.00
Barre esistente	Feb 44k	1.15	1.0	210000.00	420.00	540.00	391.304	450.00	391.304	1.20	1.00

3.9.2 Elenco e caratteristiche dei plinti

Mat.	: Nome del materiale del plinto (vedi “Elenco e Caratteristiche dei materiali”);
Col. str.	: Colonna stratigrafica associata al plinto (vedi “Stratigrafie del terreno”);
Hc	: Altezza del corpo del plinto;
Hm	: Altezza del magrone del plinto;
Ht	: Altezza della testa del plinto;
R	: Risega;
Rm	: Risega magrone;
N. pali	: Numero di pali;
Tipo pali	: Tipo di pali;
Dp	: Diametro dei pali;
Prof. cam. pali	: Profilato associato alla camicia dei pali;
Lungh. pali	: Lunghezza dei pali;
Mat. pali	: Nome del materiale dei pali (vedi “Elenco e Caratteristiche dei materiali”);
Mat. cam. pali	: Nome del materiale della camicia pali (vedi “Elenco e Caratteristiche dei materiali”);
Bicchiere	: Presenza del bicchiere;
Hb	: Altezza bicchiere;
Sb	: Spessore bicchiere;

Tipologia N.1 (TipPI_M (1))	
	<p>Mat. = Cls esist Col. str. = Colonna 1 Hc = 30.00 cm Hm = 5.00 cm Bicchiere = non presente</p>
Tipologia N.2 (TipPI_T (2))	
	<p>Mat. = Cls esist Col. str. = Colonna 1 Hc = 40.00 cm Hm = 5.00 cm Ht = 10.00 cm Bicchiere = non presente</p>

Comune: GENAZZANO
Provincia: ROMA

- ALLEGATO A - RELAZIONE PLINTI

Archivio: PALESTRA POST.fnx - Data : 19/07/2023

Oggetto: Adeguamento palestra scuola media

Committente

Progettista architettonico

Progettista strutturale

Direttore dei Lavori

Geologo

Collaudatore

Appaltatore

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1 Allegato A - Relazione Plinti

1.1 Dati Struttura

1.1.1 Elenco e caratteristiche dei materiali

Nell'ambito del progetto si è fatto uso dei seguenti materiali divisi per categoria di appartenenza:

1.1.1.1 Calcestruzzo

Nome	: Nome del materiale;
Classe	: Classe del calcestruzzo in base alla classificazione da normativa (fck/Rck);
fck	: Resistenza caratteristica cilindrica a compressione;
Rck	: Resistenza caratteristica cubica a compressione;
v	: Modulo di Poisson;
ps	: Peso per unità di volume;
αT	: Coefficiente di dilatazione termica;
Ec	: Modulo elastico del materiale;
FC	: Fattore di confidenza (solo per costruzioni esistenti);
$\gamma_{m,c}$: Coefficiente parziale per le resistenze;
Ect/Ec	: Rapporto tra i moduli elastici a trazione e compressione;
fcm	: Resistenza media riscontrata (solo per costruzioni esistenti);
fcd SLU	: Resistenza di calcolo a compressione per gli SLU;
fctd SLU	: Resistenza di calcolo a trazione per gli SLU;
fcd SLD	: Resistenza di calcolo a compressione per gli SLD;
fctd SLD	: Resistenza di calcolo a trazione per gli SLD;
fctk,0.05	: Resistenza caratteristica a trazione;
fctm	: Resistenza media a trazione;
ec2	: Deformazione al raggiungimento della massima tensione di compressione;
ecu2	: Deformazione ultima di compressione del calcestruzzo.

Nome	Classe	v	ps	αT	Ec	FC	$\gamma_{m,c}$	Ect/Ec	fcm	Fcd SLU	fctd SLU	fcd SLD	fctd SLD	fctk,0.05	fctm	ec2	ecu2
			kN/m ³	1/°C	N/mm ²				N/mm ²	N/mm ²	N/mm ²	N/mm ²	N/mm ²	N/mm ²	N/mm ²	%	%
Cls (1)	C25/30	0.15	25.00	1E-05	31475.806	-	1.50	0.50	25.00	14.167	1.197	21.25	1.795	1.795	2.565	0.20	0.35
Cls esist	-	0.15	25.00	1E-05	29961.951	1.00	1.50	0.50	20.00	11.333	1.032	17.00	1.547	1.547	2.21	0.20	0.35
Cls2	C25/30	0.15	25.00	1E-05	31475.806	-	1.50	0.50	25.00	14.167	1.197	21.25	1.795	1.795	2.565	0.20	0.35

1.1.1.2 Acciaio per C.A.

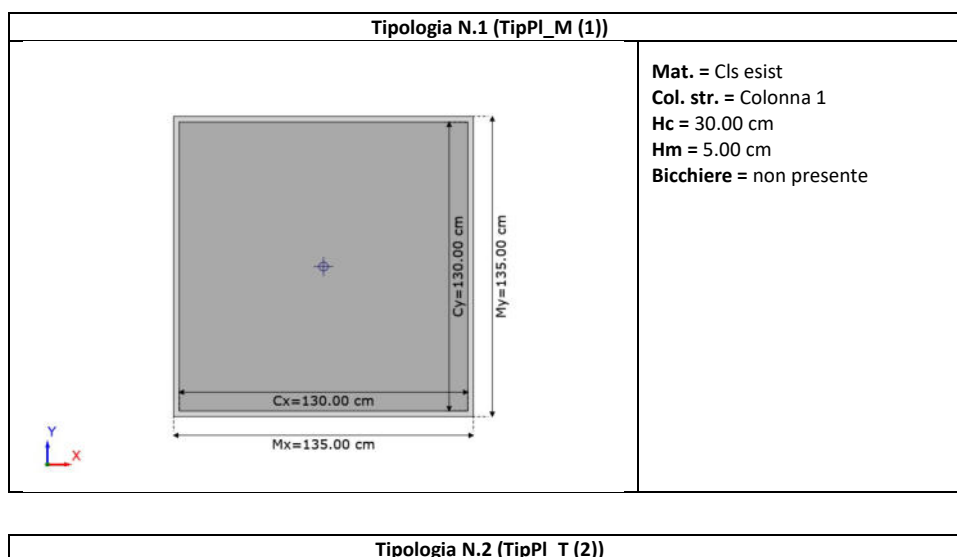
Nome	: Nome del materiale;
Tipo	: Tipo di acciaio in base alla classificazione da normativa;
γ_m	: Coefficiente parziale per le resistenze;
FC	: Fattore di confidenza (solo per costruzioni esistenti);
Es	: Modulo elastico del materiale;
fyk	: Resistenza caratteristica di snervamento a trazione;
ftk	: Resistenza caratteristica a rottura a trazione;
fd SLU	: Resistenza di calcolo a trazione per gli SLU;
fd SLD	: Resistenza di calcolo a trazione per gli SLD;

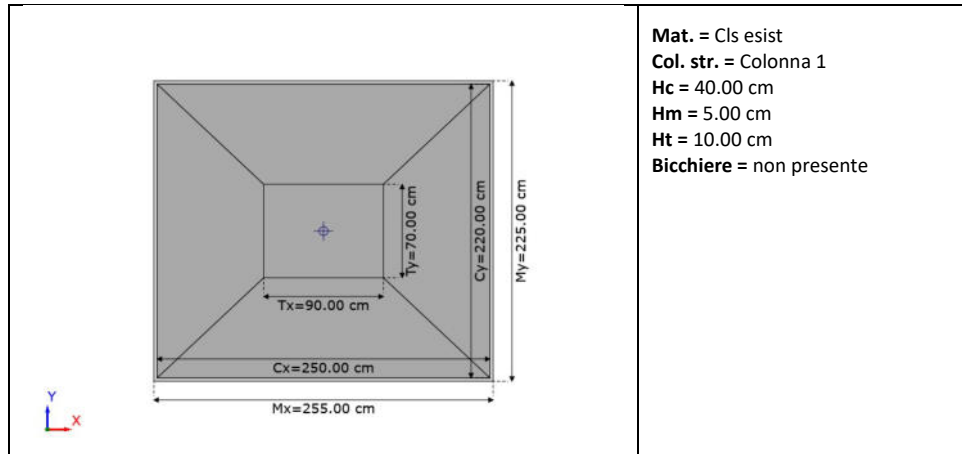
fd SLE : Resistenza di calcolo a trazione per gli SLE;
 k : Rapporto di sovraresistenza ($f_{tk} / f_{yk} > 1$ per modello incrudente)
 eud : Valore di calcolo della deformazione ultima a trazione.

Nome	Tipo	γ_m	FC	Es N/mm ²	f _{yk} N/mm ²	f _{tk} N/mm ²	fd SLU N/mm ²	fd SLD N/mm ²	fd SLE N/mm ²	k	eud %
Barre (1)	B450C	1.15	-	210000.00	450.00	540.00	391.304	450.00	391.304	1.20	1.00

1.1.2 Elenco e caratteristiche dei plinti

Mat. : Nome del materiale del plinto (vedi "Elenco e Caratteristiche dei materiali");
 Col. str. : Colonna stratigrafica associata al plinto (vedi "Stratigrafie del terreno");
 Hc : Altezza del corpo del plinto;
 Hm : Altezza del magrone del plinto;
 Ht : Altezza della testa del plinto;
 R : Risega;
 Rm : Risega magrone;
 N. pali : Numero di pali;
 Tipo pali : Tipo di pali;
 Dp : Diametro dei pali;
 Prof. cam. pali : Profilato associato alla camicia dei pali;
 Lungh. pali : Lunghezza dei pali;
 Mat. pali : Nome del materiale dei pali (vedi "Elenco e Caratteristiche dei materiali");
 Mat. cam. pali : Nome del materiale della camicia pali (vedi "Elenco e Caratteristiche dei materiali");
 Bicchiere : Presenza del bicchiere;
 Hb : Altezza bicchiere;
 Sb : Spessore bicchiere;





Comune: GENAZZANO
Provincia: ROMA

- ALLEGATO C - REGOLARITÀ STRUTTURALE

Archivio: PALESTRA POST.fnx - Data : 19/07/2023

Oggetto: Adeguamento palestra scuola media

Committente

Progettista architettonico

Progettista strutturale

Direttore dei Lavori

Geologo

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Sommario

1 Allegato C - Regolarità Strutturale4

1 Allegato C - Regolarità Strutturale

Regolarità in pianta

- a) *La distribuzione di masse e rigidezze è approssimativamente simmetrica rispetto a due direzioni ortogonali e la forma in pianta è compatta, ossia il contorno di ogni orizzontamento è convesso; il requisito può ritenersi soddisfatto, anche in presenza di rientranze in pianta, quando esse non influenzano significativamente la rigidezza nel piano dell'orizzontamento e, per ogni rientranza, l'area compresa tra il perimetro dell'orizzontamento e la linea convessa circoscritta all'orizzontamento non supera il 5% dell'area dell'orizzontamento.*

Risultati simmetria:

Δ Rig-Centro Geom. : Distanza tra centro delle rigidezze e centro geometrico dell'impalcato;
 Δ Masse-Centro Geom. : Distanza tra centro delle masse e centro geometrico dell'impalcato;
 Esito Dir. X : Esito del controllo con il valore limite (10% dell'ingombro);
 Esito Dir. Y : Esito del controllo con il valore limite (10% dell'ingombro);

Impalcato	Δ Rig-Centro Geom.		Δ Masse-Centro Geom.		Esito Dir. X	Esito Dir. Y
	X [cm]	Y [cm]	X [cm]	Y [cm]		
I1	-254.30	368.56	-255.07	163.87	V	NV
I2	-434.20	464.60	513.56	14.62	NV	NV
I3	-291.02	513.33	-34.19	61.53	V	NV
I4	-202.87	180.55	-203.77	180.75	NV	V

Risultati convessità:

ATot Imp : Area totale dell'impalcato;
 AMax Rientranze : Area della rientranza più grande;
 Esito : Esito del controllo con il valore limite (5% dell'area totale)

Impalcato	ATot Imp [m ²]	AMax Rientranze [m ²]	Esito
-	-	-	-

Esito: Impalcato non compatto (massa)

- b) *Il rapporto tra i lati del rettangolo circoscritto alla pianta di ogni orizzontamento è inferiore a 4.*

Impalcato	Dimensione X [m]	Dimensione Y [m]	Esito
I1	26.95	30.30	V
I2	26.95	30.30	V
I3	18.75	30.30	V
I4	20.05	23.70	V

Esito: Verifiche OK

- c) *Ciascun orizzontamento ha una rigidezza nel proprio piano tanto maggiore della corrispondente rigidezza degli elementi strutturali verticali da potersi assumere che la sua deformazione in pianta influenzi in modo trascurabile la distribuzione delle azioni sismiche tra questi ultimi e ha resistenza sufficiente a garantire l'efficacia di tale distribuzione.*

I controlli effettuati sono:

1. spessore soletta in c.a. almeno di 40 mm
2. impalcato giacente su piano orizzontale

Impalcato	Esito
I1	V
I2	V
I3	V
I4	V

Esito: Verifiche OK

Regolarità in altezza

- d) *Tutti i sistemi resistenti alle azioni orizzontali si estendono per tutta l'altezza della costruzione o, se sono presenti parti aventi differenti altezze, fino alla sommità della rispettiva parte dell'edificio.*

Esito controllo	NV
-----------------	----

Esito: Sistemi resistenti alle azioni orizzontali non estesi per tutta l'altezza della costruzione

- e) *Masse e rigidezza rimangono costanti o variano gradualmente, senza bruschi cambiamenti, dalla base alla sommità della costruzione (le variazioni di massa da un orizzontamento all'altro non superano il 25%, la rigidezza non si riduce da un orizzontamento a quello sovrastante più del 30% e non aumenta più del 10%); ai fini della rigidezza si possono considerare regolari in altezza strutture dotate di pareti o nuclei in c.a. o di pareti e nuclei in muratura di sezione costante sull'altezza o di telai controventati in acciaio, ai quali sia affidato almeno il 50% dell'azione sismica di base.*

Δ Masse : variazione massima delle masse rispetto all'impalcato adiacente
 Δ Rig X : variazione massima delle rigidezze rispetto all'impalcato adiacente (Dir. X)
 Δ Rig Y : variazione massima delle rigidezze rispetto all'impalcato adiacente (Dir. Y)
 Esito : esito sul controllo delle variazioni di masse e rigidezze

Impalcato	Δ Masse [%]	Δ Rig X [%]	Δ Rig Y [%]	Esito
I1	-90.8	-4261.5	-555.2	NV
I2	984.5	39.7	0.0	NV
I3	-78.3	-87.4	-92.1	NV
I4	0.0	0.0	0.0	NV

Esito: Variazione di massa con il piano inferiore superiore al 25%

- f) *Il rapporto tra la capacità e la domanda allo SLV non è significativamente diverso, in termini di resistenza, per orizzontamenti successivi (tale rapporto, calcolato per un generico orizzontamento, non deve differire più del 30% dall'analogo rapporto calcolato per l'orizzontamento adiacente); può fare eccezione l'ultimo orizzontamento di strutture intelaiate di almeno tre orizzontamenti.*

Rapporto Cap/Dom : rapporto capacità-domanda
 Δ Rapp Cap/Dom : variazione del rapporto con il piano adiacente

Impalcato	Rapporto Cap/Dom	Δ Rapp Cap/Dom	Esito
I1	1.17	60.54	NV
I2	1.87	-37.71	NV
I3	1.17	-100.00	NV
I4	0.00	0.00	V

Esito: Variazione di rapporto Cap/Dom maggiore del 30% con il piano adiacente

- g) *Eventuali restringimenti della sezione orizzontale della costruzione avvengano con continuità da un orizzontamento al successivo; oppure avvengano in modo che il rientro di un orizzontamento non superi il 10% della dimensione corrispondente all'orizzontamento immediatamente sottostante, né il 30% della dimensione corrispondente al primo orizzontamento. Fa eccezione l'ultimo orizzontamento di costruzioni di almeno quattro orizzontamenti, per il quale non sono previste limitazioni di restringimento.*

$\Delta L X$ Perc : rientro rispetto al piano di confronto (segno negativo se rientro);

$\Delta L Y$ Perc: rientro rispetto al piano di confronto (segno negativo se rientro);

Impalcato	$\Delta L X$ Perc [%]	$\Delta L Y$ Perc [%]
I1	0.0	0.0
I2	30.4	0.0
I3	6.9	21.8

Esito: Variazione di dimensione in dir. X maggiore del 10% rispetto all'impalcato sottostante

Comportamento strutturale

Strutture deformabili torsionalmente (NTC 2018)

Questo tipo di strutture sono composte da telai e/o pareti, la cui rigidezza torsionale non soddisfa ad ogni piano la condizione $r^2/l_s^2 \geq 1$, nella quale:

r^2 = raggio torsionale al quadrato è, per ciascun piano, il rapporto tra la rigidezza torsionale rispetto al centro di rigidezza laterale e la maggiore tra le rigidezze laterali, tenendo conto dei soli elementi strutturali primari, per strutture a telaio o a pareti (purché snelle e a deformazione prevalentemente flessionale), r^2 può essere valutato, per ogni piano, riferendosi ai momenti d'inerzia flessionali delle sezioni degli elementi verticali primari.

l_s^2 = per ogni piano, è il rapporto fra il momento d'inerzia polare della massa del piano rispetto ad un asse verticale passante per il centro di massa del piano e la massa stessa del piano; In questo caso le formule utilizzate sono:

$$l_s^2 = \sum m_i d_i^2 / M_{tot}$$

$$d_i = \sqrt{\Delta x_i^2 + \Delta y_i^2}$$

Δx_i = ascissa relativa al centro di massa del piano della singola massa m_i ;

Δy_i = ordinata relativa al centro di massa del piano della singola massa m_i .

Si riportano i dati relativi al controllo:

Impalcato	r^2 [m ²]	l_s^2 [m ²]	Rapp.
I1	1138.13	116.25	9.79
I2	226.31	195.31	1.16
I3	187.13	156.97	1.19
I4	150.14	97.14	1.55

Nel caso in esame, secondo questo metodo, la struttura non risulta "deformabile torsionalmente".

Effetti delle non linearità geometriche

Le non linearità geometriche sono prese in conto attraverso il fattore θ che, in assenza di più accurate determinazioni, può essere definito come:

$$\theta = \frac{P d_{Er}}{V h}$$

nella quale:

P = è il carico verticale totale dovuto all'orizzontamento in esame e alla struttura ad esso sovrastante;

d_{Er} = è lo spostamento orizzontale medio d'interpiano allo SLV;

V = è la forza orizzontale totale in corrispondenza dell'orizzontamento in esame, derivante dall'analisi lineare con fattore di comportamento q ;

h = è la distanza tra l'orizzontamento in esame e quello immediatamente sottostante;

Nel caso in esame il valore più rappresentativo di θ è pari a 0.05.

Comune: GENAZZANO

Provincia: ROMA

- ALLEGATO E -

GIUDIZIO MOTIVATO DI ACCETTABILITÀ DEI RISULTATI (§10.2 NTC 2018)

Archivio: PALESTRA POST.fnx - Data : 19/07/2023

Oggetto: Adeguamento palestra scuola media

Committente	Progettista architettonico	Progettista strutturale	Direttore dei Lavori
Geologo	Collaudatore	Appaltatore	

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1 Allegato E - Giudizio motivato di accettabilità dei risultati (§10.2 NTC 2018)

1.1 Informativa sull'affidabilità dei codici

Il processo di progettazione e sviluppo del software **FaTA Next**, per ciò che riguarda le procedure di calcolo e l'elaborazione degli elaborati in output forniti, è sottoposto al controllo del Sistema di Gestione della Qualità Aziendale della **Stacec s.r.l.**, con sede in Bovalino (RC), S.S. 106 km 87, n. 59, conforme alla norma ISO 9001:2000 e certificato da **Certiquality** con n. 8679.

Al fine della comprensione del metodo e dei parametri utilizzati si allegano i cenni teorici adeguatamente commentati.

Si dichiara, inoltre, che al progettista sono stati forniti gli esempi di calcolo sottoelencati, utilizzati per verificare la validità delle procedure di calcolo ed effettuare le necessarie verifiche di controllo, i cui dati in ingresso, in essi riportati, potranno essere utilizzati per eventuali confronti con altri strumenti di calcolo.

- Test01_PortaleQdis.fnx
- Test02_PortaleFOr_01.fnx e Test02_PortaleFOr_02.fnx
- Test03_Portale_DT.fnx
- Test04_Imp_Rigido.fnx
- Test05b_Conci rigidi.fnx

Il software è dotato di strumenti di autodiagnostica che controllano ed evidenziano, durante le procedure di inserimento dei dati e di elaborazione, eventuali valori non congrui, il cui utilizzo comprometterebbe una corretta elaborazione.

Bovalino, 11/04/2018

Allegato 1: Cenni teorici

Introduzione

Questo allegato descrive i concetti teorici e la modellazione strutturale su cui poggia il calcolo di FaTA Next. La descrizione è relativa alla soluzione delle incognite strutturali e alle sollecitazioni di calcolo agenti sulle varie parti della struttura. Per tutto ciò che concerne le verifiche strutturali dei singoli elementi si rimanda il lettore all'apposito capitolo.

L'analisi numerica della struttura viene condotta attraverso l'utilizzo del metodo degli elementi finiti ipotizzando un comportamento elastico-lineare.

Il metodo degli elementi finiti consiste nel sostituire il modello continuo della struttura con un modello discreto equivalente e di approssimare la funzione di spostamento con un polinomio algebrico, definito in regioni (dette appunto elementi finiti) che sono delle funzioni interpolanti il valore di spostamento definito in punti discreti (detti nodi).

Gli elementi finiti utilizzabili ai fini della corretta modellazione della struttura verranno descritti di seguito.

Il modello di calcolo può essere articolato sulla base dell'ipotesi di impalcato rigido, in funzione della reale presenza di solai continui atti a irrigidire tutto l'impalcato. Tale ipotesi viene realizzata attraverso l'introduzione di adeguate relazioni cinematiche tra i gradi di libertà dei nodi costituenti l'impalcato e i gradi di libertà del nodo "master" posizionato nel centro di massa dell'impalcato stesso.

Modellazione geometrica della struttura

Il modello geometrico (mesh) della struttura è basato sull'utilizzo dei seguenti elementi:

- Nodi

Si definiscono nodi, entità geometriche determinate tramite le tre coordinate nel riferimento globale. I nodi, nello spazio tridimensionale, posseggono tre gradi di libertà traslazionali e tre rotazionali. Essi sono posizionati in modo da definire gli estremi degli elementi finiti e, di regola, in ogni discontinuità strutturale, di carico, di caratteristiche meccaniche, di campo di spostamento.

- Vincoli e Molle

I gradi di libertà possono essere vincolati, bloccando il cinematismo nella direzione voluta o assegnando "molle" applicate ai nodi tramite valori di rigidità finiti. Un vincolo assegna a priori un valore di spostamento nullo, e quindi la variabile corrispondente viene eliminata.

- Vincoli interni

Tali vincoli servono a definire le modalità di trasmissione degli sforzi dall'elemento finito ai nodi. Ciò viene associato al concetto di trasferimento della rigidità. Generalmente l'elemento considerato è rigidamente connesso ai nodi che lo definiscono, in modo da bloccare tutti i gradi di libertà relativi. E' possibile, comunque "rilasciare" le caratteristiche delle sollecitazioni, in modo da svincolare i gradi di libertà corrispondenti. Nel caso particolare, il modello utilizzato consente di svincolare le tre rotazioni intorno agli assi locali dell'asta.

- Aste

Si tratta di elementi finiti monodimensionali ad asse rettilineo delimitate da due nodi (i nodi di estremità). Per questi elementi generalmente la funzione interpolante è quella del modello analitico per cui la mesh non influisce sensibilmente sulla convergenza. Le aste sono dotate di rigidità assiale, flessionale, e a taglio, secondo il modello classico della trave inflessa di Eulero- Bernoulli e/o Timoshenko. Alla singola asta è possibile associare una sezione costante per tutta la sua lunghezza.

- Asta su suolo elastico

Si tratta di elementi finiti monodimensionali ad asse rettilineo, di definizione simile alle aste. Sono utili a modellare travi di fondazione, considerate poggianti su suolo alla **Winkler**, e reagenti sia rispetto alle componenti traslazionali di cinematismo, sia rotazionali.

-Asta con plasticità diffusa

Si tratta di un elemento finito monodimensionale in grado di modellare la risposta elastoplastica in ogni punto dello stesso. A tal proposito l'asse della trave viene discretizzato in un numero finito di sezioni (significative ai fini dell'integrazione numerica) ognuna delle quali viene a sua volta suddivisa in un certo numero di fibre. La risposta 3d assiale e flessionale viene ottenuta attraverso l'integrazione delle sollecitazioni relative alla singola fibra sull'intera sezione trasversale.

- Lastra-Piastra

Si tratta di elementi finiti bidimensionali, definiti da tre o quattro nodi, posti ai vertici rispettivamente di un triangolo o di un quadrilatero irregolare. La geometria reale dell'elemento viene ricondotta ad un triangolo rettangolo (elemento a tre nodi) o ad un quadrato definito nella trattazione isoparametrica. L'elemento lastra-piastra non ha rigidità per la rotazione intorno all'asse perpendicolare al suo piano e viene trattato secondo la teoria di **Mindlin-Reissner**. Nel modello considerato si tiene conto dell'accoppiamento tra azioni flessionali e membranali.

- Forze e coppie concentrate

Per la risoluzione statica della struttura, tutti i carichi applicati agli elementi vengono trasferiti ai nodi. Ciò avviene in automatico per il peso delle aste, delle piastre, delle pareti, dei pannelli di carico presenti sulle aste e per la distribuzione di carico applicate agli elementi bidimensionali. Il modello di calcolo consente anche l'introduzione di forze e coppie ai nodi. Le forze sono dirette lungo le tre direzioni del sistema di riferimento globale ed in entrambi i versi per ogni direzione. Le coppie concentrate sono riferite ai tre assi del riferimento globale, in entrambi i versi di rotazione di ciascun asse.

- Carichi distribuiti

Il modello di calcolo consente anche l'introduzione di carichi ripartiti sulle aste e di distribuzione di carico su piastre e pareti. I carichi ripartiti sulle aste possono essere riferite sia al riferimento globale, sia al riferimento locale, lungo le tre direzioni ed in entrambe i versi. E' possibile anche introdurre carichi distribuiti torcenti agenti intorno all'asse dell'asta ed in entrambe i versi di rotazione. Tutti i tipi di carico ripartito devono avere forma trapezia. Sugli elementi bidimensionali, che fanno parte della mesh di piastre e pareti, è possibile assegnare una distribuzione uniforme, avente le caratteristiche di una pressione diretta ortogonalmente all'elemento.

- Pannelli di carico

Il pannello di carico è un concetto legato alla reale distribuzione di carichi gravanti sulle aste. Ne fanno parte: solai, balconi, scale. Da tali pannelli, di forma irregolare come definiti dalla geometria dell'input, si passa alla quantificazione dei carichi trapezoidali ripartiti sulle aste. Per meglio simulare l'effetto dei pannelli, vengono generati in modo automatico anche dei carichi ripartiti torcenti, anch'essi di forma trapezia, relativi ai carichi distribuiti equivalenti al pannello.

- Sezioni

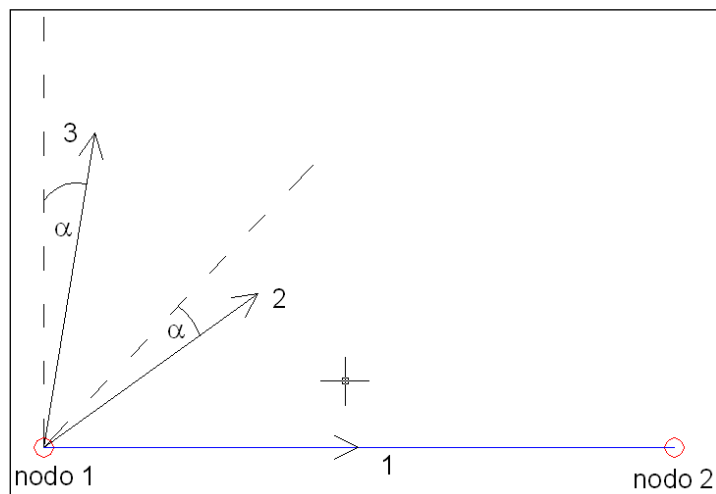
Le sezioni assegnabili alle aste sono definite attraverso le caratteristiche geometrico-elastiche, i moduli di resistenza plastici (sezioni in acciaio) ed il materiale.

Sistema di coordinate

I sistemi di riferimento sono usati per definire localmente le parti del modello strutturale e per riferire i carichi, gli spostamenti, le sollecitazioni, le tensioni, le reazioni. Per la risoluzione della struttura il programma utilizza due distinti sistemi di riferimento tridimensionali:

- **Globale:** unico per tutti gli elementi finiti e utile a risolvere l'intera struttura. Viene definito con l'asse Z lungo la direzione della forza di gravità ma con verso positivo opposto, e gli assi X e Y tali da formare una terna ortogonale levogira (identificabile con la "regola della mano destra") ;
- **Locale:** definito per ogni elemento e utile a riferire la rigidità e i carichi locali.

Per gli elementi BEAM il sistema di riferimento locale viene definito in base alla geometria dell'asta. L'asse 1 è il versore coincidente con la direzione dell'asta indicata dal primo al secondo nodo, secondo la seguente figura:

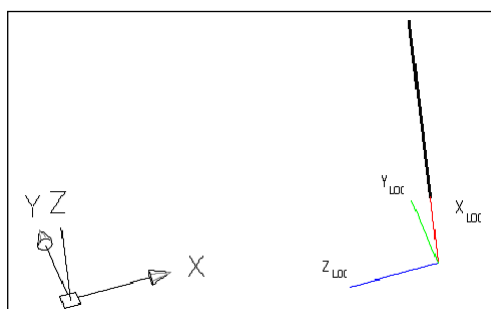


L'asse 2 e il 3 vengono costruiti realizzando una roto-traslazione rigida nello spazio del sistema di riferimento globale, in modo che l'asse X coincida con l'asse 1 locale. Il sistema di riferimento locale è dotato di un angolo α di deviazione (positivo antiorario) relativamente alla torsione intorno all'asse 1 in modo da considerare eventuali torsioni della sezione.

La matrice di rotazione, utile a definire le trasformazioni di base, è calcolata in modo tale che il sistema di riferimento locale e globale coincidono in direzione e verso se i due punti hanno angolo nullo nel piano XY (il segmento che li congiunge ha direzione e verso dell'asse x) e la torsione è nulla.

Un caso particolare si presenta quando i due nodi sono perfettamente allineati in verticale (angolo di 90 o 270 gradi dal piano XY). In tal caso è possibile scegliere tra infiniti sistemi di riferimento, uno per ogni possibile angolo nel piano XY. Per eliminare questa arbitrarietà, nella generazione automatica del modello in FaTA Next, è stata prevista la possibilità di imporre due angoli di torsione diversi : uno per il caso verticale (*angTorsVert*) ed uno per gli altri casi (*angTors*).

La scelta di tali angoli dipende dall'utilizzo della matrice di rotazione stessa, come sarà chiaro dagli esempi seguenti. Quando l'angolo di torsione verticale è nullo se il sistema di riferimento è quello illustrato in figura (è stata impostata la continuità con il caso di due punti aventi angolo nullo nel piano XY angolo pressoché pari a 90 dal piano XY).

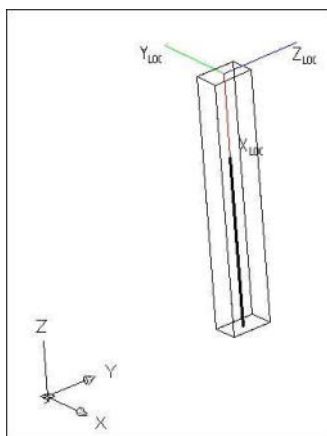


Per comprendere meglio la modellazione automatica di FaTA Next, riportiamo due esempi relativi al caso pilastro e trave supponendo che non siano presenti angoli di torsione propri delle aste (tipologia, filo fisso, angolo di torsione imposto all'asta). In caso di presenza di questi angoli di torsione i sistemi di riferimento descritti sotto ruotano in maniera solidale con l'asta.

ESEMPIO 1: MATRICE DI ROTAZIONE DEL PILASTRO DEL FATA NEXT

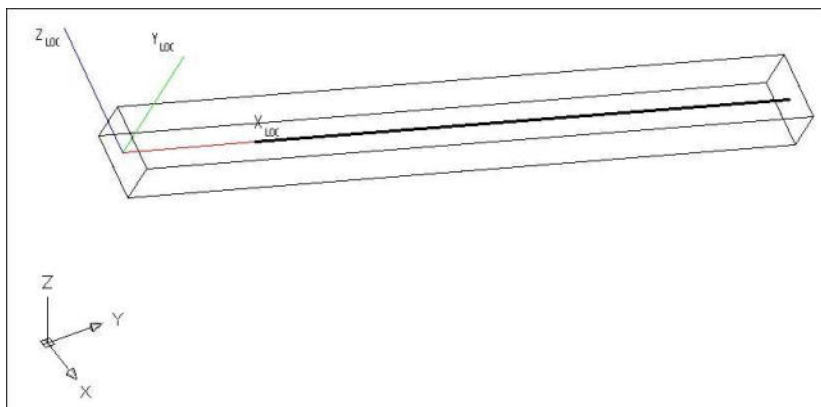
In FaTA Next, per scelta di input, il pilastro può essere pensato come una trave verticale avente angolo di -90° nel piano XY. Inoltre nel caso in cui l'asta del pilastro non è esattamente verticale per mantenere il sistema di riferimento coerente con il caso verticale è necessario imporre un ulteriore angolo di torsione Alfa pari all'angolo dell'asta nel piano XY (confondendo quest'angolo con un angolo di torsione). Per cui si pone $\text{angTorsVert}=-90$ e $\text{angTors}=\text{angTorsVert}-\text{Alfa}$.

Il sistema di riferimento del pilastro è, con queste assunzioni, sempre quello illustrato in figura:

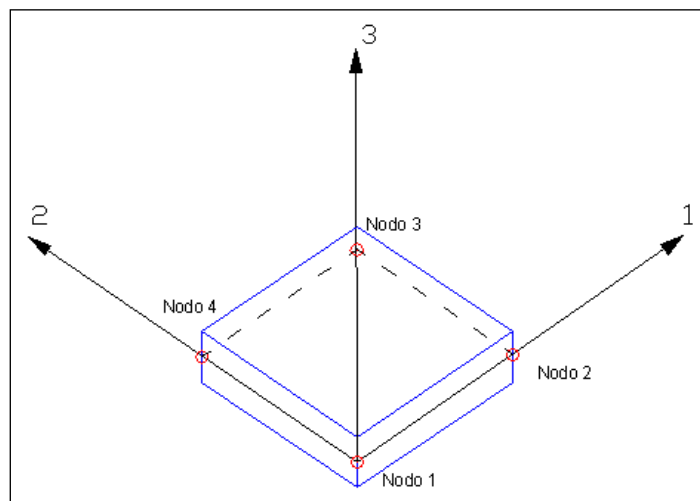


ESEMPIO 2: MATRICE DI ROTAZIONE DELLA TRAVE DEL FATA NEXT

Per la trave non verticale non è necessaria la presenza di angoli di torsione. Per la trave verticale, se è un tratto di asta spezzata oppure un'asta derivante da una travatura reticolare, è necessaria la presenza di un angolo di torsione pari all'angolo dell'asta originale nel piano XY.



Anche per gli elementi SHELL il sistema di riferimento è legato alla geometria. In particolare, l'asse 1 ha direzione coincidente con il vettore congiungente il primo e il secondo nodo dell'elemento. Gli altri due assi sono creati in modo da formare una terna ortogonale levogira (identificabile con la "regola della mano destra");



Più precisamente, nel caso di modellazione di pareti e piastre le sollecitazioni relative ai singoli elementi finiti (automaticamente creati secondo una mesh i cui criteri vengono riportati in seguito) vengono riferiti al sistema di riferimento locale del macroelemento piastra o parete.

Nodi e gradi di libertà

I nodi nell'analisi agli elementi finiti giocano un ruolo fondamentale, in quanto rappresentano i punti in cui sono definite le funzioni interpolanti degli spostamenti. È in questi punti che vengono calcolati gli spostamenti della struttura (spostamenti nodali) attraverso la risoluzione dei sistemi lineari.

I nodi vengono automaticamente creati dal programma il quale provvede ad inserirli nelle discontinuità strutturali, in modo che gli estremi degli elementi ne vengano definiti. Le tre coordinate di posizionamento dei nodi sono riferite al sistema globale.

L'entità "nodo" è importante in quanto in esso è possibile:

- **Connettere** gli elementi strutturali attraverso il trasferimento di carichi e masse dagli elementi;
- **Limitare** i gradi di libertà attraverso l'applicazione di vincoli cinematici e molle (rigidezze concentrate);
- **Caricare** la struttura attraverso forze e coppie concentrate applicate o riportate dagli elementi.

I nodi vengono creati all'intersezione degli elementi strutturali (pilastri e travi) ed internamente ad oggetti parete e piastra. In quest'ultimo caso i nodi sono definiti dal passo della meshatura scelta.

Le deformazioni della struttura sono governate dagli spostamenti dei nodi. Le componenti di spostamento (traslazioni e rotazioni) dei nodi sono chiamati **gradi di libertà** del problema. Ogni nodo, nello spazio, ha sei gradi di libertà: tre traslazionali e tre rotazionali riferiti al sistema di riferimento globale. I vincoli applicati annullano i gradi di libertà (cioè il valore dello spostamento) i quali vengono ignorati come incognite ed utilizzati per il calcolo delle reazioni vincolari. Tali reazioni vengono esplicitate nella direzione dei gradi di libertà bloccati.

Tra i vincoli più familiari ricordiamo:

- **Incastro**: reagisce con tre forze e tre momenti in quanto vengono bloccati tutte le componenti di spostamento (traslazionali e rotazionali);
- **Cerniera sferica**: reagisce con tre forze concentrate in quanto vengono bloccati solo le componenti traslazionali;
- **Cerniera cilindrica**: reagisce con due forze contenute nel piano ortogonale all'asse di rotazione della cerniera;
- **Carrello**: reagisce con una forza diretta lungo l'asse del carrello.

Gli spostamenti nodali possono anche essere limitati applicando delle molle. Le molle sono valori di rigidità aggiuntiva applicate ai nodi. Il sistema lineare da risolvere è, relativamente ad un nodo, il seguente:

$$\begin{bmatrix} F_x \\ F_y \\ F_z \\ M_x \\ M_y \\ M_z \end{bmatrix} = \begin{bmatrix} K_{xx} & K_{xy} & K_{xz} & K_{x\phi x} & K_{x\phi y} & K_{x\phi z} \\ & K_{yy} & K_{yz} & K_{y\phi x} & K_{y\phi y} & K_{y\phi z} \\ & & K_{zz} & K_{z\phi x} & K_{z\phi y} & K_{z\phi z} \\ & & & K_{\phi x\phi x} & K_{\phi x\phi y} & K_{\phi x\phi z} \\ & Sym & & & K_{\phi y\phi y} & K_{\phi y\phi z} \\ & & & & & K_{\phi z\phi z} \end{bmatrix} \times \begin{bmatrix} u_x \\ u_y \\ u_z \\ \phi_x \\ \phi_y \\ \phi_z \end{bmatrix}$$

La matrice di rigidità è del tipo pieno. L'introduzione delle molle comporta un'aggiunta alla matrice di rigidità della seguente matrice:

$$\begin{bmatrix} K_x & 0 & 0 & 0 & 0 & 0 \\ 0 & K_y & 0 & 0 & 0 & 0 \\ 0 & 0 & K_z & 0 & 0 & 0 \\ 0 & 0 & 0 & K_{\phi x} & 0 & 0 \\ 0 & 0 & 0 & 0 & K_{\phi y} & 0 \\ 0 & 0 & 0 & 0 & 0 & K_{\phi z} \end{bmatrix}$$

Il valore delle rigidità sulla diagonale viene inserito sui nodi nell'apposito ambiente contenuto in "Modellazione3D" di FaTA Next. In questo caso le reazioni verranno automaticamente calcolate moltiplicando lo spostamento nodale per il valore della rigidità introdotta corrispondente alla reazione cercata.

Sia i valori di spostamento che delle rigidità sono riportati sulla relazione di calcolo generata da FaTA Next.

Matrici di calcolo della struttura

Dalla discretizzazione geometrica della struttura vengono definite le matrici utili a studiare il comportamento globale della struttura in esame.

- Matrice di rigidità

Tale matrice viene costruita partendo dalla matrice di rigidità espressa nel sistema di riferimento locale dell'elemento considerato. Attraverso un'operazione di trasformazione, mediante la matrice di rotazione, viene riferita al sistema di riferimento globale. L'ultima operazione consiste nell'"assemblaggio" delle singole matrici di ogni elemento, in modo da formare un'unica matrice relativa all'intera struttura.

- Matrice delle masse

La generazione della matrice globale è del tutto analoga a quella sopra descritta per la matrice di rigidità. La matrice delle masse è di tipo "consistent" e considera l'effettiva distribuzione delle masse della struttura. Come definito dalla normativa, alle masse relative ai carichi permanenti, viene aggiunta un'aliquota delle masse equivalenti ai carichi d'esercizio.

- Matrice di smorzamento

Il modello di smorzamento adottato è di tipo viscoso ed in modo particolare quello di **Rayleigh** detto anche smorzamento proporzionale. Secondo tale modello la matrice di smorzamento viene calcolata secondo la relazione:

$$C = \alpha M + \beta K$$

dove α e β sono le costanti di smorzamento di **Rayleigh**.

Relazioni Master-Slave

I gradi di libertà della struttura possono essere relazionati attraverso delle equazioni ai fini di modellare i seguenti comportamenti:

- **Impalcato rigido;**
- **Corpo rigido;**
- **Platea rigida;**
- **Spostamenti uguali.**

In FaTA Next è possibile utilizzare solo il modello “impalcato rigido”. Gli altri modelli non sono al momento disponibili dall’interfaccia utente.

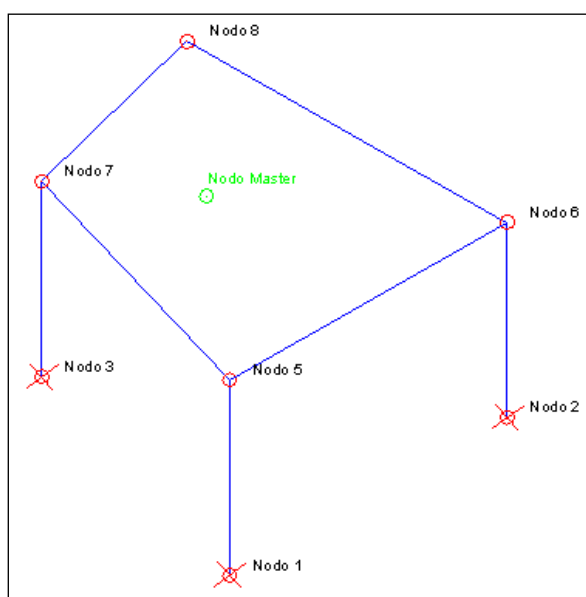
Ogni modellazione viene eseguita attraverso delle relazioni cinematiche tra gli spostamenti dei nodi chiamati “slave” e gli spostamenti di un nodo rappresentativo chiamato “master”.

Nel caso di **impalcato rigido** l’ipotesi viene condotta in modo che l’impalcato sia infinitamente rigido ad azioni complanari e deformabile ad azioni ortogonali al piano.

L’ipotesi di rigidità è realistica se viene utilizzata su nodi appartenenti ad uno stesso piano orizzontale. Per questo motivo, nel tentativo di condurre il progettista verso modelli teorici soddisfacenti, nell’ambiente di modellazione non è consentito attribuire relazioni master-slave tra nodi che appartengono ad impalcati diversi. Si ricorda che il programma, dal momento che non può riconoscere la forma dell’edificio, genera automaticamente un nodo master per piano.

In molti casi (ampi fori nel solaio, coperture inclinati, strutture reticolari, ecc.) è opportuno eliminare il master di piano, in quanto il modello potrebbe presentare un comportamento non vicino al reale. Tutte le operazioni di introduzione, cancellazione e modifica dei nodi master sono attuabili dall’ambiente “Modellazione 3D”.

Nella seguente figura sono mostrati i significati dei vari elementi:



Nella figura i nodi contrassegnati dai numeri 5,6,7,8 sono legati al nodo master (di colore verde) attraverso le seguenti relazioni:

$$\begin{aligned} Ux_s &= Ux_m + (y_m - y_s) \times Rz_m \\ Uy_s &= Uy_m + (x_s - x_m) \times Rz_m \\ Rz_s &= Rz_m \end{aligned}$$

Dove i pedici “s” e “m” indicano rispettivamente il nodo “slave” e “master”. Il nodo master è rappresentativo dell’impalcato, per cui in esso è contenuta tutta la massa dell’impalcato e le componenti di rigidezza relative alle trasformazioni matriciali.

Per tali motivi esso viene posizionato nel centro di massa dei nodi appartenenti allo stesso master. Per quanto

riguarda i nodi 1,2,3,4 essi non vengono masterizzati in quanto appartenenti all'impalcato fondazioni. È chiaro che qualora fosse presente un solaio rigido in fondazione, può essere necessario introdurre le relazioni master-slave anche per i nodi appartenenti a tale impalcato.

Nel caso di **corpo rigido** l'ipotesi viene condotta in modo che i nodi selezionati, rappresentativi del corpo siano legati da relazioni di spostamento rigido nello spazio. Le relazioni che regolano il fenomeno sono le seguenti:

$$\begin{aligned} Ux_s &= Ux_m - (z_m - z_s) \times Ry_m + (y_m - y_s) \times Rz_m \\ Uy_s &= Uy_m - (x_s - x_m) \times Rz_m + (z_s - z_m) \times Rx_m \\ Uz_s &= Uz_m - (y_s - y_m) \times Rx_m + (x_s - x_m) \times Ry_m \\ Rx_s &= Rx_m \\ Ry_s &= Ry_m \\ Rz_s &= Rz_m \end{aligned}$$

L'ipotesi di **platea rigida** è relativa al comportamento di piastra rigida alle deformazioni flessionali. Le relazioni cinematiche utili a modellare il comportamento sono:

$$\begin{aligned} Uz_s &= Uz_m - (y_s - y_m) \times Rx_m + (x_s - x_m) \times Ry_m \\ Rx_s &= Rx_m \\ Ry_s &= Ry_m \end{aligned}$$

L'ultimo modello vincola i nodi interessati a spostarsi presentando gli stessi spostamenti, secondo le seguenti relazioni:

$$\begin{aligned} Ux_s &= Ux_m \\ Uy_s &= Uy_m \\ Uz_s &= Uz_m \\ Rx_s &= Rx_m \\ Ry_s &= Ry_m \\ Rz_s &= Rz_m \end{aligned}$$

I cinematismi **masterizzati** non possono essere vincolati. Il programma informa l'utente di tale errore durante il calcolo della struttura.

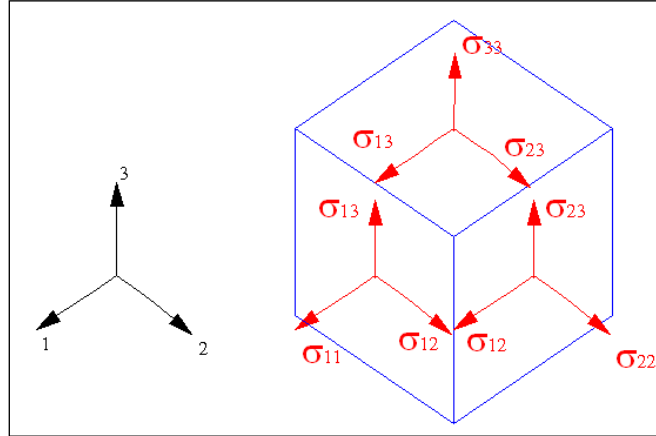
La modellazione master-slave introduce anche un vantaggio prestazionale riguardante la velocità di calcolo. Infatti, considerando la struttura della figura precedente, se non si effettua nessuna "masterizzazione" si hanno 24 incognite da calcolare (per cui la matrice di rigidezza di calcolo è 24x24), con l'ipotesi di impalcato rigido si hanno solo 15 incognite (matrice di rigidezza di calcolo è 15x15).

È ovvio che il vantaggio computazionale aumenta calcolando strutture più grandi.

Proprietà dei materiali

Il comportamento dei materiali utilizzati nel calcolo è di tipo omogeneo isotropo con legame elastico-lineare. Le proprietà elastiche e meccaniche dei materiali sono definite rispetto al sistema di riferimento locale. Il sistema di riferimento locale è importante nel caso di materiale anisotropi o ortotropi, è indifferente nel caso di materiali isotropi, in quanto le caratteristiche meccaniche e elastiche sono indipendenti da ogni sistema di riferimento utilizzate.

Le caratteristiche elastiche sono relazionate alle tensioni e alle deformazioni attraverso il materiale. Le tensioni sono definite come forze per unità di superficie agenti sulle facce di un solido che chiameremo "cubetto elementare". Utilizzando il sistema di riferimento locale possiamo riassumere il tutto nella seguente figura:



I termini σ_{11} , σ_{22} , σ_{33} sono le componenti di tensione che provocano l'allungamento del cubetto nella dimensione considerata. I termini σ_{12} , σ_{13} , σ_{23} sono le componenti di tensione che provocano distorsioni angolari tra le direzioni considerate.

Alcune delle componenti di tensione non sono presenti in tutti gli elementi. Per esempio nelle aste sono assunte nulle le σ_{22} , σ_{33} , σ_{23} , mentre nelle piastre è nulla la σ_{33} .

Le componenti di deformazione del cubetto si calcolano come:

$$\begin{aligned}\varepsilon_{11} &= \frac{\partial u_1}{\partial x_1} \\ \varepsilon_{22} &= \frac{\partial u_2}{\partial x_2} \\ \varepsilon_{33} &= \frac{\partial u_3}{\partial x_3} \\ \gamma_{12} &= \frac{\partial u_1}{\partial x_2} + \frac{\partial u_2}{\partial x_1} \\ \gamma_{13} &= \frac{\partial u_1}{\partial x_3} + \frac{\partial u_3}{\partial x_1} \\ \gamma_{23} &= \frac{\partial u_2}{\partial x_3} + \frac{\partial u_3}{\partial x_2}\end{aligned}$$

dove u_1 , u_2 , u_3 sono gli spostamenti riferiti al sistema di riferimento locale. Le deformazioni possono essere anche causate da dilatazioni termiche applicate sugli elementi strutturali.

Come già accennato il comportamento dei materiali in FaTA Next è di tipo isotropico. Ciò vuol dire che l'elemento solido ha il medesimo comportamento indipendentemente dalla direzione considerata.

La correlazione tra deformazioni e tensioni è riportata nella seguente relazione:

$$\begin{bmatrix} \varepsilon_{11} \\ \varepsilon_{22} \\ \varepsilon_{33} \\ \gamma_{12} \\ \gamma_{13} \\ \gamma_{23} \end{bmatrix} = \begin{bmatrix} 1/E & -\nu/E & -\nu/E & 0 & 0 & 0 \\ & 1/E & -\nu/E & 0 & 0 & 0 \\ & & 1/E & 0 & 0 & 0 \\ & & & 1/G & 0 & 0 \\ & sym & & & 1/G & 0 \\ & & & & & 1/G \end{bmatrix} \times \begin{bmatrix} \sigma_{11} \\ \sigma_{22} \\ \sigma_{33} \\ \sigma_{12} \\ \sigma_{13} \\ \sigma_{23} \end{bmatrix} + \begin{bmatrix} \alpha \\ \alpha \\ \alpha \\ 0 \\ 0 \\ 0 \end{bmatrix} \Delta T$$

Dove E è il modulo elastico longitudinale, ν è il coefficiente di Poisson, G è il modulo elastico a taglio e α è il coefficiente di espansione termica. Il modulo elastico a taglio è calcolabile dalla seguente relazione:

$$G = \frac{E}{2(1 + \nu)}$$

Il modulo elastico longitudinale è sempre positivo e il coefficiente di Poisson deve soddisfare le seguenti limitazioni:

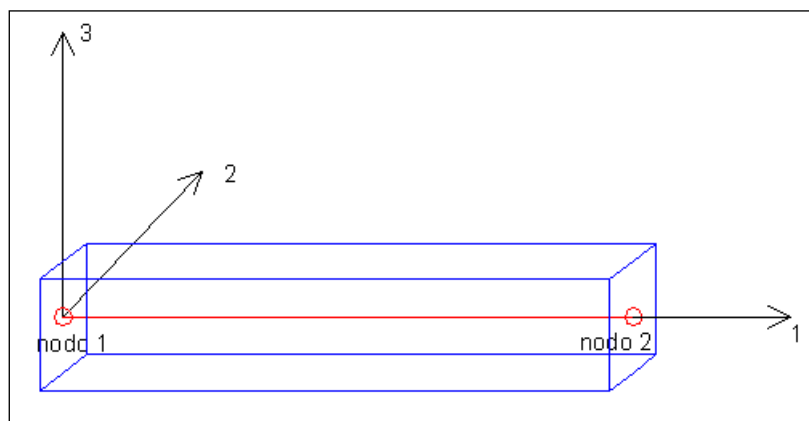
$$-1 < \nu < 0.5$$

Elementi BEAM e TRUSS

In questa sezione approfondiremo la trattazione degli elementi finiti BEAM e TRUSS, utili alla modellazione di travi, pilastri e aste di travature reticolari, comunque e sempre ad asse rettilineo.

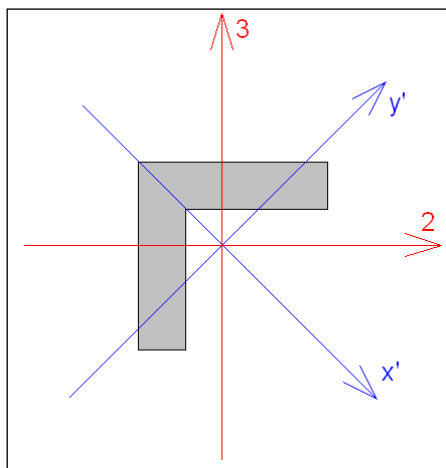
La differenza tra BEAM e TRUSS sta nel grado di connessione alle estremità. Infatti l'elemento TRUSS (noto come biella) presenta sconnessioni ai momenti flettenti e torcenti di estremità.

D'ora in avanti intenderemo approfondire solo l'elemento BEAM. Questo elemento finito possiede 12 gradi di libertà in quanto i due nodi di estremità hanno 6 gradi di libertà ciascuno: 3 alla traslazione e 3 alla rotazione:

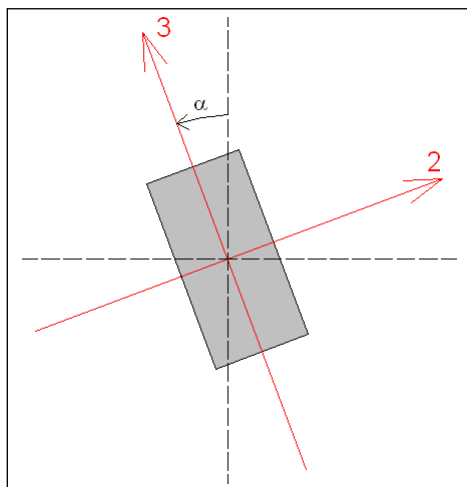


Il sistema di riferimento locale viene costruito partendo dall'asse 1 fatto coincidere con la linea d'asse della trave e orientato positivamente dal nodo 1 al 2. Gli altri due assi sono costruiti attraverso una roto-traslazione rigida del sistema di riferimento globale in modo da sovrapporre l'asse x all'asse 1, secondo le indicazioni riportate precedentemente. I momenti di inerzia della sezione sono riferiti agli assi 2 e 3.

Per le sezioni doppiamente non simmetriche (ad esempio le sezioni a L) i momenti d'inerzia non sono riferiti agli assi principali ma ai due assi identificati con 2 e 3 orientati secondo la seguente figura:



Tutte le proprietà delle sezioni, i carichi e le caratteristiche della sollecitazione sono riferite agli assi locali della trave. Eventuali rotazioni della sezione vengono considerate ruotando il sistema di riferimento locale coerentemente all'angolo α :



I dati relativi alla sezione sono:

- **Area della sezione trasversale;**
- **Momenti principali di inerzia;**
- **Momento d'inerzia torsionale;**

Come già spiegato il materiale costituente la trave è assunto essere di tipo isotropo. I parametri atti a definirlo sono il modulo elastico longitudinale E e il coefficiente di Poisson. Le altre caratteristiche del materiale sono costituite dal peso proprio per unità di lunghezza della trave (automaticamente calcolato dal programma), dalla massa per unità di lunghezza (automaticamente calcolato dal programma) e dal coefficiente termico di dilatazione lineare.

Sulla linea d'asse della trave possono agire contemporaneamente una molteplicità di carichi:

- **Carichi distribuiti uniformi** espressi nel sistema di riferimento locale dell'asta;
- **Carichi distribuiti uniformi** espressi nel sistema di riferimento globale;
- **Carichi trapezoidali** espressi nel sistema di riferimento locale dell'asta;
- **Variazioni termiche uniformi;**

I carichi ripartiti (uniformi o trapezoidali) interessano tutta la lunghezza dell'asta ed hanno componenti lungo gli assi locali 1,2,3 del sistema di riferimento locale. È tuttavia possibile introdurre lo stesso tipo di carico riferito al riferimento globale X,Y,Z.

Tutti i tipi di carico ripartito possono essere forze o momenti, entrambi riferiti all'unità di lunghezza. I carichi termici introducibili sono del tipo lineare costante e provocano allungamenti della trave lungo il proprio asse.

La connessione interna tra le aste è per default sempre del tipo rigido, ovvero le aste generano ai nodi reazioni di incastro perfetto. Dall'ambiente "Modellazione 3D" è possibile "svincolare" localmente la risposta flessionale ai nodi di estremità. In poche parole è possibile introdurre cerniere cilindriche (orientate localmente) o sferiche.

Come accennato l'Elemento TRUSS ha, nella sua definizione, automaticamente liberi le componenti di reazione a rotazione.

Per modellare la compenetrazione delle aste ai nodi è possibile introdurre tratti rigidi agli estremi. La lunghezza di questi tratti (l_{ri} e l_{rj}) viene automaticamente calcolata dal programma. Per cui la lunghezza della parte deformabile della trave viene quindi ad essere assunta pari a:

$$\bar{L} = L - (l_{ri} + l_{rj})$$

La valutazione dei momenti di incastro perfetto indotti dagli schemi di carico tiene conto della presenza all'estremità della trave dei tronchi rigidi.

I dati di output relativi agli elementi BEAM e TRUSS sono:

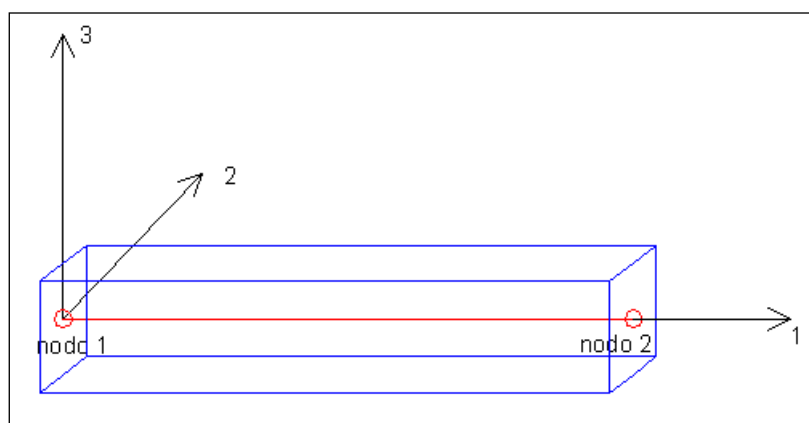
- **forze interne** (N_1, T_2, T_3);
- **momenti interni** (M_T, M_{12}, M_{13}).

Elemento FOND

Questo tipo di elemento finito viene utilizzato per modellare travi rovesce di fondazione. Questo elemento si discosta dal BEAM in quanto è vincolato attraverso delle molle traslazionali e rotazionali atte a simulare l'iterazione terreno-fondazione.

Il programma aggiunge alla matrice di rigidezza elastica dell'asta quella del contributo delle molle ripartite sulle facce della fondazione. I valori di tali contributi sono calcolate computando i coefficienti funzione delle aree di contatto terreno-fondazione. Tutti i calcoli sono effettuati sulla base di cinematismi unitari.

Questo elemento finito possiede 12 gradi di libertà in quanto i due nodi di estremità hanno 6 gradi di libertà ciascuno: 3 alla traslazione e 3 alla rotazione:



Il sistema di riferimento locale viene costruito partendo dall'asse 1 fatto coincidere con la linea d'asse della trave e orientato positivamente dal nodo 1 al 2. Gli altri due assi sono costruiti attraverso una roto-traslazione rigida del sistema di riferimento globale in modo da sovrapporre l'asse x all'asse 1. I momenti di inerzia della sezione sono riferiti agli assi 2 e 3.

Tutte le proprietà delle sezioni, i carichi e le caratteristiche della sollecitazione sono riferite agli assi locali della trave. Eventuali rotazioni della sezione vengono considerate riferendo le inerzie agli assi locali di riferimento.

I dati relativi alla sezione sono:

- **Area della sezione trasversale;**
- **Momenti principali di inerzia;**
- **Momento d'inerzia torsionale;**
- **Modulo di Winkler verticale;**
- **Modulo di Winkler orizzontale;**

Come già spiegato il materiale costituente la trave è assunto essere di tipo isotropo. I parametri atti a definirlo sono il modulo elastico longitudinale E e il coefficiente di Poisson. Le altre caratteristiche del materiale sono costituite dal peso proprio per unità di lunghezza della trave (automaticamente calcolato dal programma), dalla massa per unità di lunghezza (automaticamente calcolato dal programma) e dal coefficiente termico di dilatazione lineare.

Sulla linea d'asse della trave possono agire contemporaneamente una molteplicità di carichi:

- **Carichi distribuiti uniformi** espressi nel sistema di riferimento locale dell'asta;
- **Carichi distribuiti uniformi** espressi nel sistema di riferimento globale;
- **Carichi trapezoidali** espressi nel sistema di riferimento locale dell'asta;
- **Variazioni termiche uniformi**;

I carichi ripartiti (uniformi o trapezoidali) interessano tutta la lunghezza dell'asta ed hanno componenti lungo gli assi locali 1,2,3 del sistema di riferimento locale. È tuttavia possibile introdurre lo stesso tipo di carico riferito al riferimento globale X,Y,Z.

Tutti i tipi di carico ripartito possono essere forze o momenti, entrambi riferiti all'unità di lunghezza. I carichi termici introducibili sono del tipo lineare costante e provocano allungamenti della trave lungo il proprio asse.

Per modellare la compenetrazione delle aste ai nodi è possibile introdurre tratti rigidi agli estremi. La lunghezza di questi tratti (l_{ri} e l_{rj}) viene automaticamente calcolata dal programma. Per cui la lunghezza della parte deformabile della trave viene quindi ad essere assunta pari a:

$$\bar{L} = L - (l_{ri} + l_{rj})$$

La valutazione dei momenti di incastro perfetto indotti dagli schemi di carico tiene conto della presenza all'estremità della trave dei tronchi rigidi.

I dati di output relativi agli elementi FOND sono:

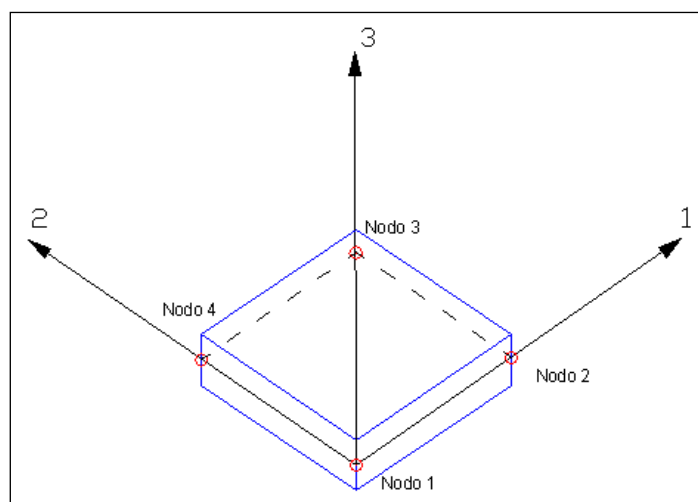
- **Forze interne** (N_1 , T_2 , T_3);
- **Momenti interni** (M_1 , M_{12} , M_{13}).

Elemento SHELL

In questa sezione approfondiremo la trattazione dell'elemento finito SHELL, utile alla modellazione di piastre orizzontali, platee di fondazione, pareti verticali e volte di varia forma. Questo tipo di elemento finito segue sempre la giacitura di un piano.

L'elemento lastra-piastra, nel seguito denominato guscio, possiede nel sistema di riferimento locale come in quello globale 6 gradi di libertà per nodo. L'elemento è computato sovrapponendo il comportamento lastra o membrana, che possiede 3 gradi di libertà per nodo (una coppia di spostamenti planari e un grado di libertà alla rotazione intorno ad un asse perpendicolare al piano medio), e il comportamento piastra, che possiede 3 gradi di libertà per nodo (uno spostamento perpendicolare al piano medio e una coppia di rotazioni ortogonali aventi assi sostegno paralleli al piano medio).

La geometria dell'elemento finito SHELL può essere definita attraverso 3 o 4 nodi. La trattazione nei due casi è completamente diversa. L'elemento a 3 nodi viene usato per creare esclusivamente mesh di transizione nel caso di figure irregolari. Il sistema di riferimento locale viene posizionato attraverso una roto-traslazione rigida facendo coincidere il vettore congiungente il primo e il secondo nodo dell'elemento con l'asse X del sistema di riferimento e denominandolo come asse 1:



Tutte le proprietà della sezione, i carichi e le caratteristiche della sollecitazione sono riferite agli assi locali dell'elemento.

Il parametro geometrico che definisce l'elemento, oltre le coordinate dei nodi, è lo spessore della sezione trasversale.

Il materiale costituente il guscio è assunto essere di tipo isotropo. I parametri atti a definirlo sono il modulo elastico longitudinale E e il coefficiente di Poisson. Le altre caratteristiche del materiale sono costituite dal peso proprio per unità di superficie (automaticamente calcolato dal programma), dalla massa per unità di superficie (automaticamente calcolato dal programma) e dal coefficiente termico di dilatazione lineare.

Sull'elemento SHELL è possibile introdurre vari tipi di carico:

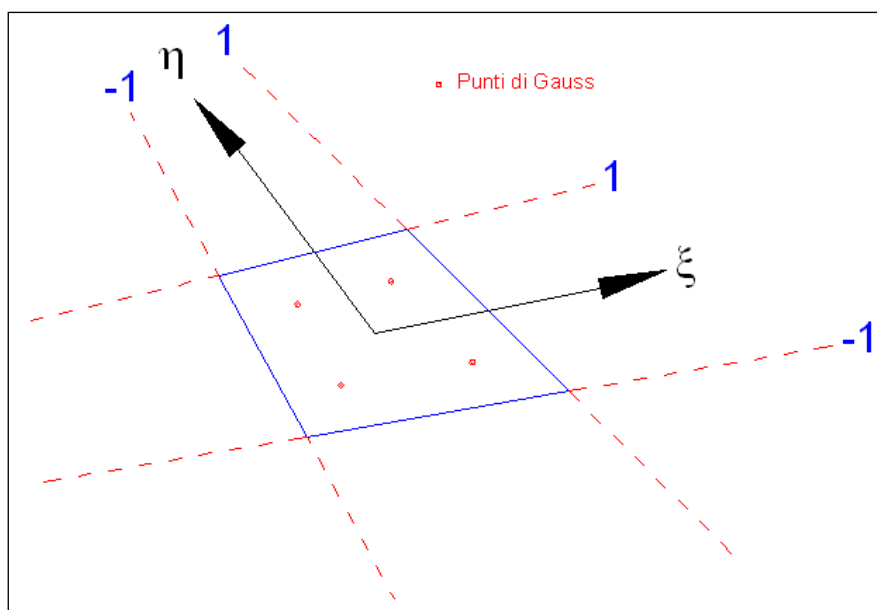
- **Carichi ripartiti** per unità di superficie agenti ortogonalmente al piano dell'elemento;
- **Carichi** (rispetto al sistema di riferimento locale e globale) ripartiti trapezoidali per unità di lunghezza applicati sui lati dell'elemento;
- **Variazioni termiche** costanti sul volume dell'elemento.

La formulazione dell'elemento è basata sulla teoria di Mindlin-Reissner in cui viene considerato anche il contributo della deformazione dovuta al taglio risolvendolo secondo la formulazione isoparametrica. Tutte le caratteristiche sono calcolate attraverso l'integrazione numerica ai punti di Gauss secondo la regola 2x2 ed estrapolate ai nodi.

Una volta ricondotte alle coordinate isoparametriche, le funzioni di forma nei due casi sono le seguenti:

$$\begin{aligned}
 &\text{Elementi Quadrangolari} \quad \begin{cases} N_1 = \frac{1}{4}(1 - \xi)(1 - \eta) \\ N_2 = \frac{1}{4}(1 + \xi)(1 - \eta) \\ N_3 = \frac{1}{4}(1 - \xi)(1 + \eta) \\ N_4 = \frac{1}{4}(1 + \xi)(1 + \eta) \end{cases} \\
 &\text{Elementi Triangolari} \quad \begin{cases} N_1 = (1 - \xi - \eta) \\ N_2 = \xi \\ N_3 = \eta \end{cases}
 \end{aligned}$$

Il significato delle coordinate parametriche è spiegato, per gli elementi quadrangolari, nella seguente figura:



Ogni oggetto piastra o parete introdotto dall'input viene meshato automaticamente dal programma secondo algoritmi

di calcolo geometrici. La definizione della mesh è fondamentale per la corretta risoluzione della struttura.

Lo stesso elemento SHELL può essere utilizzato per modellare platee di fondazione attraverso l'introduzione di molle distribuite sulla superficie dell'elemento che vengono automaticamente concentrate (rappresentative della propria area di influenza e calcolate attraverso l'integrazione di Gauss) e applicate ai nodi di estremità.

La massa dell'elemento viene calcolata e rappresentata dai valori nodali (lumped).

I dati di output relativi agli elementi SHELL sono:

- **Forze** interne per unità di lunghezza (F_{11} , F_{22} , F_{12});
- **Momenti** interni per unità di lunghezza (M_{11} , M_{22} , M_{12});
- **Risultanti di taglio** interno per unità di lunghezza (V_{13} , V_{23}).

Le forze interne sono correlate alle tensioni dalle seguenti relazioni:

$$\begin{aligned}\sigma_{11} &= \frac{F_{11}}{s} - \frac{6M_{11}}{s^2} \\ \sigma_{22} &= \frac{F_{22}}{s} - \frac{6M_{22}}{s^2} \\ \sigma_{12} &= \frac{F_{12}}{s} - \frac{6M_{12}}{s^2} \\ \sigma_{13} &= \frac{V_{13}}{s} \\ \sigma_{23} &= \frac{V_{23}}{s} \\ \sigma_{33} &= 0\end{aligned}$$

dove s è lo spessore trasversale dell'elemento.

Tipi di analisi

Il motore di calcolo di FaTA Next consente di effettuare quattro tipi di analisi:

- **Statica lineare**
- **Dinamica modale**
- **Statica non lineare**
- **Dinamica non lineare**

L'analisi Statica Lineare è utilizzata per processare sempre i vettori di carico relativi a:

- **Carichi permanenti strutturali;**
- **Carichi permanenti non strutturali;**
- **Carichi accidentali;**
- **Variazioni termiche;**
- **Sisma torcente accidentale.**

Rimane facoltà dell'utente scegliere il tipo di analisi sismica voluta in funzione delle varie esigenze e alle indicazioni normative. In questo ambito, oltre all'analisi statica lineare relativa a Sisma equivalente nelle tre direzioni principali, è possibile utilizzare l'analisi Dinamica Modale, utile per calcolare i modi di vibrazione della struttura secondo due direzioni reciprocamente ortogonali.

Entrambi i metodi di calcolo si fondano su algoritmi di calcolo dell'analisi matriciale create appositamente per l'ottimizzazione su elaboratore elettronico.

Le matrici di massa e rigidezza sono memorizzate nella forma di **matrice sparsa**, un formato compatto che consente di memorizzare solo le posizioni diverse da zero. Nel caso specifico delle problematiche connesse al calcolo strutturale consente un risparmio di memoria fino al 95% e l'utilizzo di algoritmi per la risoluzione dei sistemi lineari ed il calcolo degli autovalori notevolmente ottimizzati.

Trattiamo nello specifico l'Analisi Statica Lineare.

Dopo il calcolo e l'assemblaggio della matrice di rigidezza, effettuata solo sui nodi liberi (e quindi relativamente alle

incognite di spostamento), si passa alla risoluzione del sistema di equazioni lineari di equilibrio della struttura:

$$[F] = [\bar{K}] \times [u]$$

dove:

$[F]$ è il vettore dei carichi applicati ai nodi;

$[\bar{K}]$ è la matrice di rigidezza bandata relativa ai cinematismi liberi;

$[u]$ è il vettore degli spostamenti nodali.

La risoluzione del sistema avviene attraverso la triangolarizzazione della matrice di rigidezza bandata e con la successiva sostituzione all'indietro. Il controllo di labilità viene fatto controllando che sulla diagonale della matrice decomposta non vi siano valori nulli. È tuttavia possibile che per motivi esclusivamente numerici alcune forme di labilità non vengano riscontrate dall'algoritmo.

Una volta calcolati gli spostamenti nodali incogniti, vengono calcolati le deformazioni interne ad ogni singolo elemento utilizzando le funzioni di forma utili alla definizione degli elementi finiti. Dallo stato deformativo si passa, infine, al calcolo delle caratteristiche di sollecitazione, definite rispetto al sistema di riferimento locale, di ogni elemento presente nel modello.

L'analisi dinamica di FaTA Next consente di determinare le oscillazioni libere della struttura discretizzata. Questi modi di vibrare sono legati agli autovalori e autovettori del sistema dinamico generalizzato, che può essere riassunto in:

$$[K] \times \{a\} = \omega^2 [M] \times \{a\}$$

dove:

$[K]$ è la matrice di rigidezza della struttura;

$[M]$ è la matrice delle masse strutturali;

$\{a\}$ sono gli autovettori del problema generalizzato (forme modali);

ω^2 sono gli autovalori del sistema generalizzato;

Per la soluzione del problema generalizzato agli autovalori è stata utilizzata una variante del metodo di Arnoldi, detta Implicit Restarted Arnoldi Method (IRAM), un algoritmo iterativo che consente di calcolare un numero relativamente piccolo di autovalori per ogni passo ottimizzando la memoria occupata ed il tempo di calcolo.

Il numero di autovalori per ogni passo può essere scelto dall'input. L'algoritmo itera per calcolare un numero di autovalori tale da soddisfare il requisito dell'85% delle masse eccitate per ciascuna direzione del sisma (vedi Ordinanza 3274, 4.5.3).

E' prevista la possibilità di effettuare una sola iterazione. Quest'ultima opzione unita alla possibilità di scegliere il numero di autovalori da calcolare ad ogni passo consente, se necessario, di effettuare un'analisi di massima della struttura, calcolando gli autovalori che di fatto influenzano il comportamento della struttura senza essere vincolati all'85% di legge.

Successivamente viene calcolate la frequenza (f) dei modi di vibrare come:

$$f = \frac{\omega}{2\pi}$$

Il periodo (T) è calcolato come:

$$T = \frac{1}{f}$$

Utilizzando il vettore di trascinamento \underline{d} (o di direzione di entrata del sisma) calcoliamo i "fattori di partecipazione modali" Γ_i :

$$\Gamma_i = \underline{\phi}_i^T \times [M] \times \underline{d}$$

dove:

$\underline{\phi}_i$ è l'autovettore normalizzato relativo al modo i-esimo.

Per ogni direzione del sisma vengono scelti i modi efficaci al raggiungimento del valore limite imposto dalla normativa (85 %). Il parametro di riferimento è il “fattore di partecipazione delle masse”, la cui formulazione è:

$$\Lambda_{xi} = \frac{\Gamma_i^2}{M_{tot}}$$

I cinematismi \underline{u} vengono calcolati come:

$$\underline{u} = \frac{\Gamma_i S_d(T_i)}{\omega_i^2}$$

dove:

$S_d(T_i)$ è ordinata dello spettro di risposta orizzontale o verticale (vedi punto 3.2.5 norma);

ω_i^2 è l'autovalore del modo i-esimo.

Gli effetti relativi ai modi di vibrare, vengono combinati utilizzando la combinazione quadratica completa (CQC):

$$E = \sqrt{\sum_i \sum_j \rho_{ij} E_i E_j}$$

dove:

$\rho_{ij} = \frac{(8\xi^2(1+\beta_{ij})\beta_{ij}^{3/2})}{((1-\beta_{ij}^2)^2 + 4\xi^2\beta_{ij}(1+\beta_{ij}^2) + 8\xi^2\beta_{ij}^2)}$ è il coefficiente di correlazione tra il modo i-esimo e il modo j-esimo;

ξ è il coefficiente di smorzamento viscoso;

ρ_{ij} è il rapporto tra le frequenze di ciascuna coppia di modi $\left(\frac{f_i}{f_j}\right)$

E_i e E_j sono gli effetti considerati in valore assoluto.

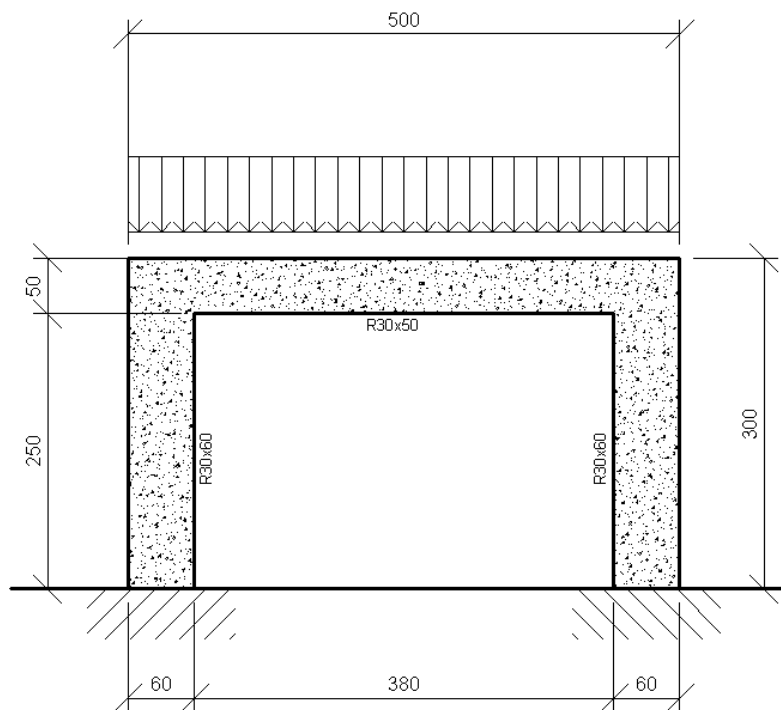
Allegato 2: Test di affidabilità

Test 01

Portale incastrato con carico distribuito sulla trave

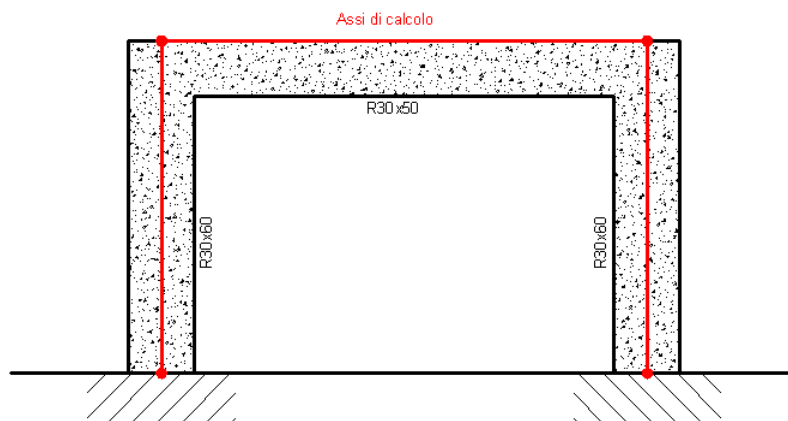
Dati del confronto

Altezza del portale:	300 cm
Dimensione longitudinale:	500 cm
Dimensione trasversale:	30 cm
Sezione pilastri:	30x60 cm
Sezione trave:	30x50 cm
Carico distribuito (q):	20.00 KN/m

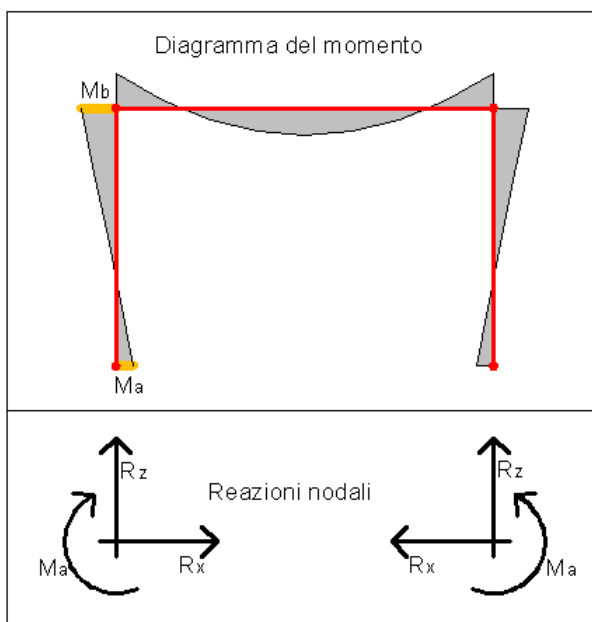


Modello di riferimento per il calcolo

Luce pilastro (h):	300 cm
Luce trave (l):	440 cm
Vincolo piede:	incastro



Soluzione dello schema strutturale



$$Ma = \frac{q \cdot l^2}{12 \cdot (k + 2)}$$

$$Mb = 2 \cdot Ma$$

$$Rx = \frac{q \cdot l^2}{4 \cdot h \cdot (k + 2)}$$

$$Rz = \frac{q \cdot l}{2}$$

$$k = \frac{I_T \cdot h}{I_P \cdot l}$$

Dove I_T e I_P sono rispettivamente il momento di inerzia della trave e del pilastro attorno all'asse uscente al piano del telaio e riferiti al baricentro della sezione.

Confronto risultati numerici

Si riportano le reazioni vincolari relativi al punto A della condizione di carico "Car_Rip" del file allegato "Test01_PortaleQdis.fnx":

Nodo Vinc.	Reazioni					
	Rx [KN]	Ry [KN]	Rz [KN]	Rfx [KNm]	Ma [KNm]	Rfz [KNm]
1	13.47	0.00	44.00	0.00	13.47	0.00
2	-13.47	0.00	44.00	0.00	-13.47	0.00

Dal confronto, riportato nella tabella sottostante, risulta la correttezza delle sollecitazioni calcolate con FaTA Next:

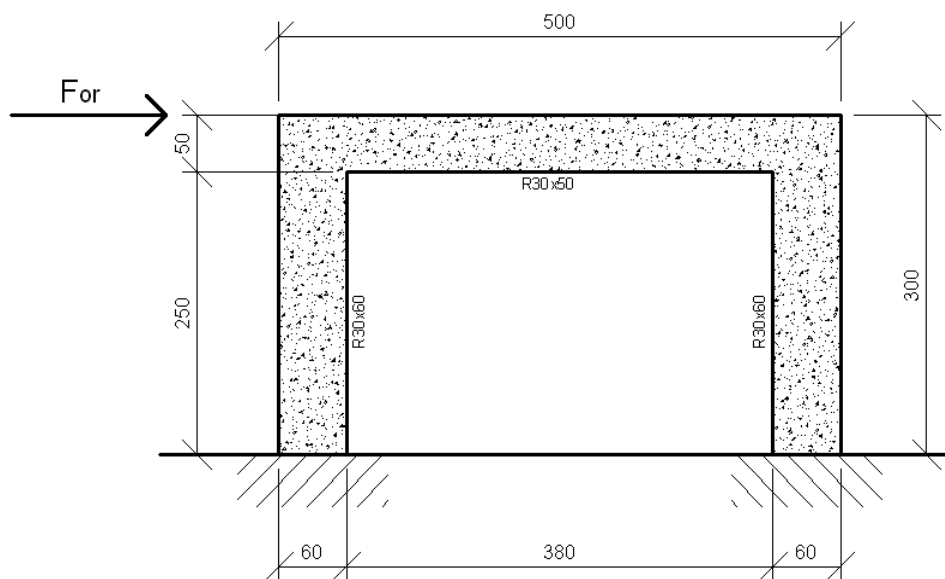
	Valore teorico	Risultato FaTA Next
Rz	44.00 KN	44.00 KN
Rx	13.47 KN	13.47 KN
Ma	13.47 KNm	13.47 KNm
Mb	26.95 KNm	26.95 KNm

Evidenziamo che le ipotesi semplificative adottate per la risoluzione "a mano" del telaio trascurano la presenza delle deformabilità tangenziale, torsionale e assiale delle aste, che nel presente esempio non influiscono sulla determinazione dei parametri di confronto.

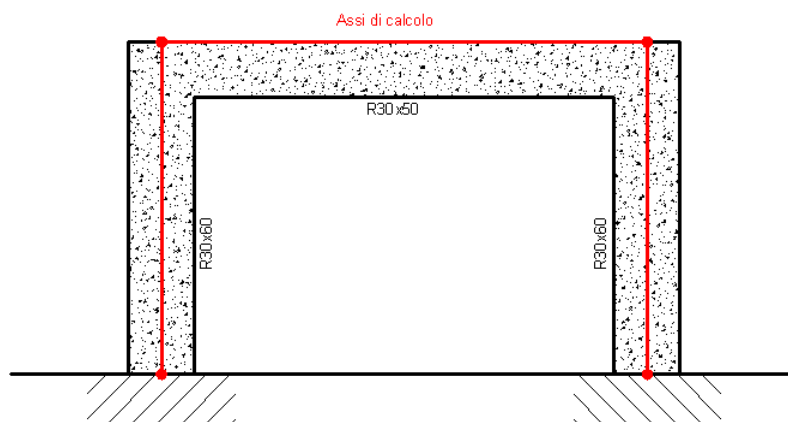
È da puntualizzare che nel modello adottato in FaTA Next i contributi precedentemente menzionati sono considerati a meno della deformabilità assiale della trave, in quanto l'elaborazione è stata effettuata in presenza dell'ipotesi di impalcato rigido.

Test02**Portale incastrato con carico orizzontale a livello impalcato****Dati del confronto**

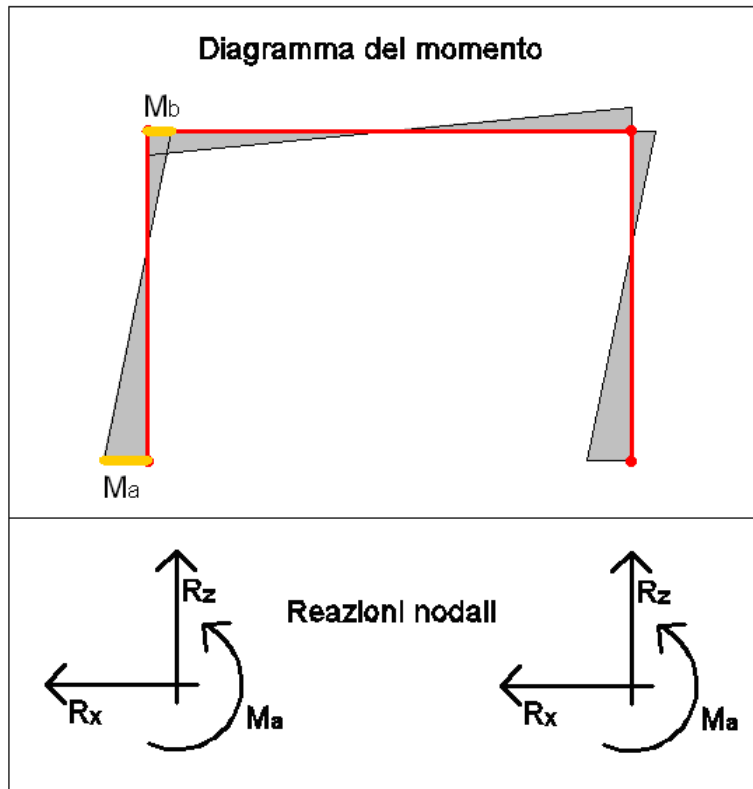
Altezza del portale:	300 cm
Dimensione longitudinale:	500 cm
Dimensione trasversale:	30 cm
Sezione pilastri:	30x60 cm
Sezione trave:	30x50 cm
Forza orizzontale (F_{or}):	50.00 kN

**Modello di riferimento per il calcolo**

Luce pilastro (h):	300 cm
Luce trave (l):	440 cm
Vincolo piede:	incastro



Soluzione dello schema strutturale



$$M_a = M_b + R_x \cdot h - F_{or} \cdot h$$

$$M_b = \frac{F \cdot h}{2} k \left[\frac{3}{1 + 6k} \right]$$

$$R_x = \frac{F}{2 \cdot (k + 2)} \cdot [3 \cdot (k + 1) - (2 \cdot k + 1)]$$

$$R_z = \frac{3 \cdot F \cdot h}{l} \cdot \frac{k}{6 \cdot k + 1}$$

$$k = \frac{I_T \cdot h}{I_P \cdot l}$$

Dove I_T e I_P sono rispettivamente il momento di inerzia della trave e del pilastro attorno all'asse uscente al piano del telaio e riferiti al baricentro della sezione.

Confronto risultati numerici

Si riportano le reazioni vincolari relativi al punto A della condizione di carico "Forza_Or" del file "Test02_PortaleFOr_01.fnx":

Nodo Vinc.	Reazioni					
	Rx [KN]	Ry [KN]	Rz [KN]	Rfx [KNm]	Ma [KNm]	Rfz [KNm]
1	-25.00	0.00	-11.93	0.00	-48.75	0.00
2	-25.00	0.00	11.93	0.00	-48.75	0.00

Riportiamo la tabella utile al confronto dei risultati:

	Valore teorico	Risultato FaTA Next
Rz	11.98 KN	11.93 KN
Rx	25.00 KN	25.00 KN
Ma	48.64 KNm	48.75 KNm
Mb	26.36 KNm	26.25 KNm

Le differenze che si riscontrano sono dovute alle ipotesi semplificative della risoluzione "a mano" del telaio trascurando la presenza delle deformabilità tangenziale, torsionale e assiale delle aste, che nel presente esempio non influiscono sulla determinazione dei parametri di confronto.

Volendo avere un confronto a parità di ipotesi introduciamo ai nodi di estremo della trave delle molle in direzione verticale di valore $1E+10$, in quanto nella precedente elaborazione è stata già considerata la presenza dell'ipotesi di impalcato rigido utile a modellare la indeformabilità assiale della trave.

In tal caso leggeremo i dati in FaTA Next considerando l'aliquota di reazione assorbita dalle molle, in particolare:

$$R_z = \text{Sforzo normale pilastro} + \text{Reazione molla} = 0.2221 + 11.7605 = 11.98 \text{ KN}$$

Riportiamo tutti i valori del confronto evidenziando la corrispondenza del confronto:

	Valore teorico	Risultato FaTA Next
Rz	11.98 KN	11.98 KN
Rx	25.00 KN	25.00 KN
Ma	48.64 KNm	48.64 KNm
Mb	26.36 KNm	26.36 KNm

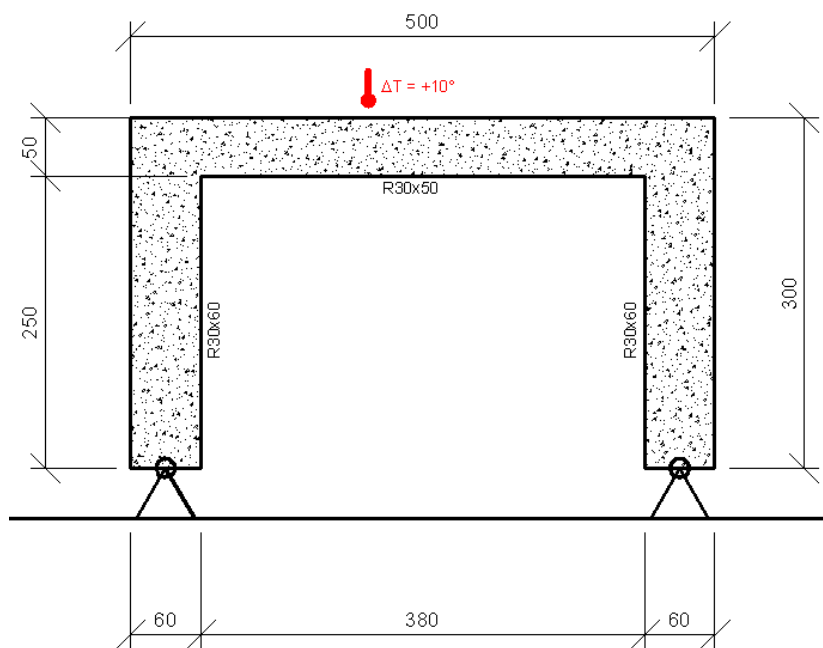
Il secondo test è riportato nel file "Test02_PortaleFOr_02.fnx".

Test03

Portale incernierato con gradiente di temperatura alla trave

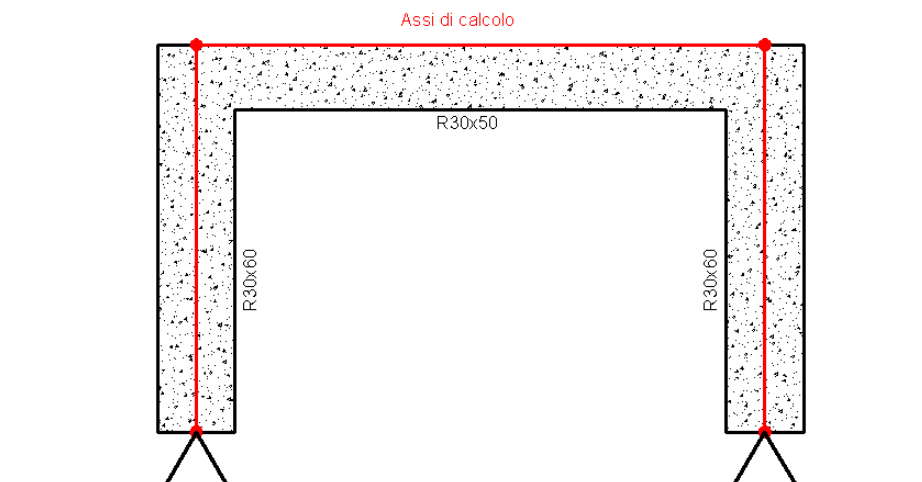
Dati del confronto

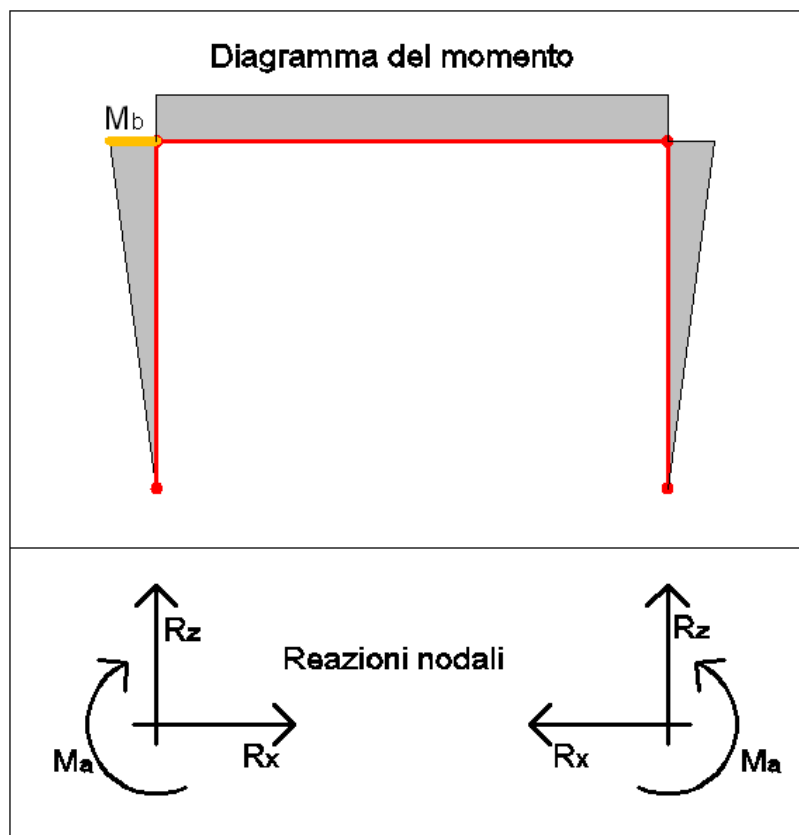
Altezza del portale:	300 cm
Dimensione longitudinale:	500 cm
Dimensione trasversale:	30 cm
Sezione pilastri:	30x60 cm
Sezione trave:	30x50 cm
Gradiente della temperatura (ΔT):	10°
Coefficiente di dilatazione (α):	1E-5



Modello di riferimento per il calcolo

Luce pilastro (h):	300 cm
Luce trave (l):	440 cm
Vincolo piede:	incastro



Soluzione dello schema strutturale

$$M_b = R_x \cdot h$$

$$R_x = \frac{3 \cdot \alpha \cdot E \cdot I_T \cdot \Delta T}{h^2 \cdot (3 + 2 \cdot k)}$$

$$k = \frac{I_T \cdot h}{I_P \cdot l}$$

Dove I_T e I_P sono rispettivamente il momento di inerzia della trave e del pilastro attorno all'asse uscente al piano del telaio e riferiti al baricentro della sezione.

Confronto risultati numerici

Si riportano le reazioni vincolari relativi al punto A della condizione di carico "Delta T" del file "Test03_Portale_DT.fnx":

Nodo Vinc.	Reazioni					
	Rx [KN]	Ry [KN]	Rz [KN]	Rfx [KNm]	Rfy [KNm]	Rfz [KNm]
1	0.8637	0.00	0.00	0.00	0.00	0.00
2	-0.8637	0.00	0.00	0.00	0.00	0.00

Riportiamo la tabella utile al confronto dei risultati:

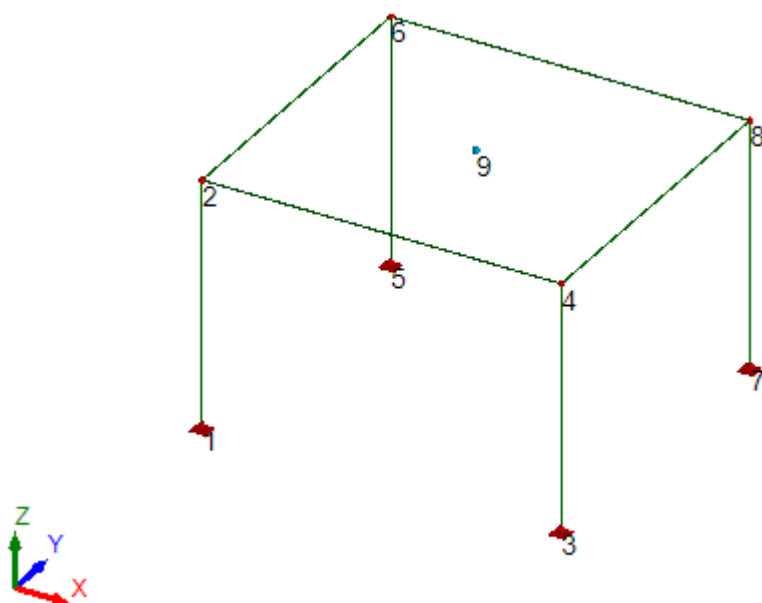
	Valore teorico	Risultato FaTA Next
Rx	0.8652 KN	0.8637 KN
Mb	2.5959 KNm	2.5911 KNm

Evidenziamo che le ipotesi semplificative adottate per la risoluzione "a mano" del telaio trascurano la presenza delle deformabilità tangenziale, torsionale e assiale delle aste, che nel presente esempio non influiscono sulla determinazione dei parametri di confronto.

È da puntualizzare che nel modello adottato in FaTA Next i contributi precedentemente menzionati sono considerati compresa la deformabilità assiale della trave.

Test04**Efficacia dell'impalcato rigido****Dati del confronto**

Altezza della struttura:	300 cm
Dimensione longitudinale:	500 cm
Dimensione trasversale:	430 cm
Sezione pilastri:	30x50 cm
Sezione travi:	30x60 cm
Forza orizzontale (F_{or}):	100.00 KN

Modello di riferimento per il calcolo**Geometria del problema**

Si riportano le coordinate dei nodi in condizione di struttura indeformata:

Nodo I.	Nodo C.	Impalcato	Tipo legame	Coordinate			Tip. plinto	Tip. rinforzo	Master
				x	y	z			
				[cm]	[cm]	[cm]			
Nodo 1	1	1	-	30.00	0.00	0.00	-	-	-
Nodo 2	2	2	-	30.00	0.00	300.00	-	-	9
Nodo 3	3	1	-	470.00	0.00	0.00	-	-	-
Nodo 4	4	2	-	470.00	0.00	300.00	-	-	9
Nodo 5	5	1	-	30.00	400.00	0.00	-	-	-
Nodo 6	6	2	-	30.00	400.00	300.00	-	-	9
Nodo 7	7	1	-	470.00	400.00	0.00	-	-	-
Nodo 8	8	2	-	470.00	400.00	300.00	-	-	9
-	9	2	Diaframma rigido	250.00	200.00	300.00	-	-	-

Nodo C.	Vincoli					
	Sx	Sy	Sz	Rx	Ry	Rz
	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]

1	P	P	P	P	P	P
2	L	L	L	L	L	L
3	P	P	P	P	P	P
4	L	L	L	L	L	L
5	P	P	P	P	P	P
6	L	L	L	L	L	L
7	P	P	P	P	P	P
8	L	L	L	L	L	L
9	L	L	L	L	L	L

Il modello di impalcato rigido viene gestito tramite le seguenti relazioni cinematiche:

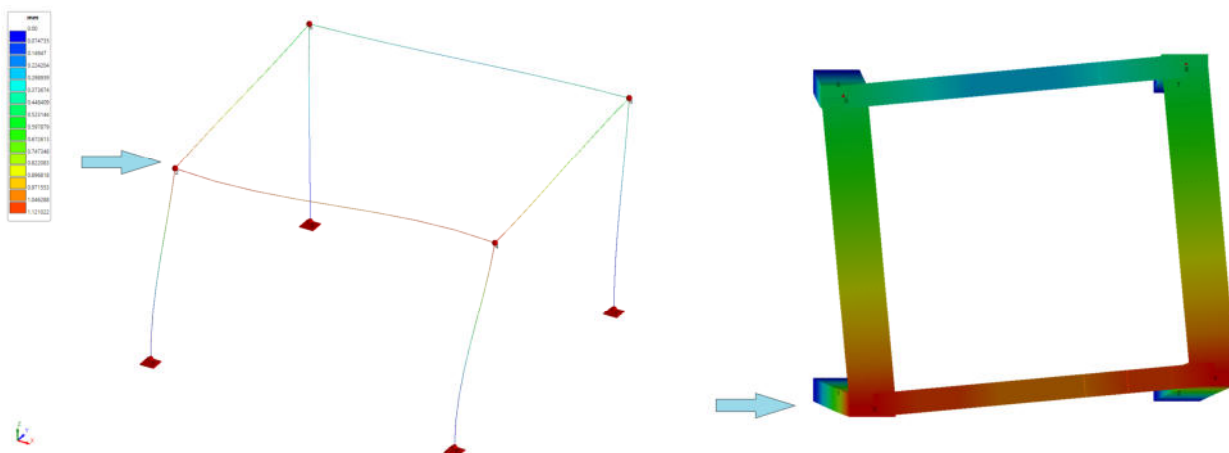
$$\begin{cases} Ux_s = Ux_m + (y_m - y_s) \times Rz_m \\ Uy_s = Uy_m + (x_s - x_m) \times Rz_m \\ Rz_s = Rz_m \end{cases}$$

Dove Ux, Uy, Rz sono rispettivamente gli spostamenti orizzontali e la rotazione attorno a all'asse z globale. Le relazioni Master-Slave sono riferite al nodo master creato nel centro di massa dell'impalcato:

Nodo Master	Coordinate [cm]		
	x	y	z
9	250.00	200.00	300.00

Spostamenti dovuti alla forza orizzontale applicata

Al fine di dimostrare l'efficacia dell'impalcato rigido calcoliamo la posizione dei nodi dopo l'applicazione della forza orizzontale verificando graficamente le deformate della condizione "Forza Or" del file "Test04_Imp_Rigido":



Le posizioni dei nodi dopo lo spostamento saranno quelle riportate nella seguente tabella:

Nodo	Coordinate [cm]		
	x	y	z
1	30.000	0.000	30.000
2	30.103	-0.044	30.103
3	470.000	0.000	470.000
4	470.103	0.044	470.103
5	30.000	400.000	30.000

6	30.023	399.956	30.023
7	470.000	400.000	470.000
8	470.023	400.044	470.023

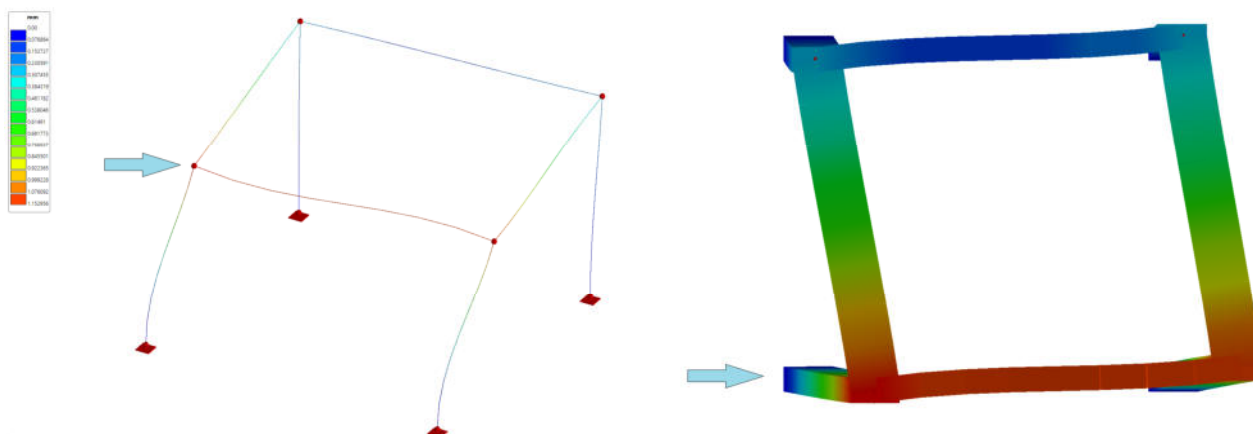
Analisi dei risultati

Il metodo per verificare l'avvenuta rotazione rigida intorno al master è di calcolare le mutue distanze tra i nodi dell'impalcato:

Lato	Distanza iniziale [cm]	Distanza finale [cm]
2-4	440.000	440.000
2-6	400.000	400.000
8-4	400.000	400.000
8-6	440.000	440.000

Si verifica semplicemente come la distanza tra i nodi rimane immutata.

Ripetendo l'elaborazione eliminando il master di piano otteniamo il seguente comportamento:



Si evidenzia tra i due casi la diversa forma della deformata dell'impalcato.

Come riportato nella seguente tabella si nota che il lato 5-6 subisce una deformazione assiale di "contrazione" dell'elemento strutturale dovuto alla forza applicata:

Lato	Distanza iniziale [cm]	Distanza finale [cm]
2-4	439.995	440.000
2-6	400.000	400.000
8-4	400.000	400.000
8-6	440.000	440.000

Le differenze per le altre aste sono influenti sui decimali superiori al terzo.

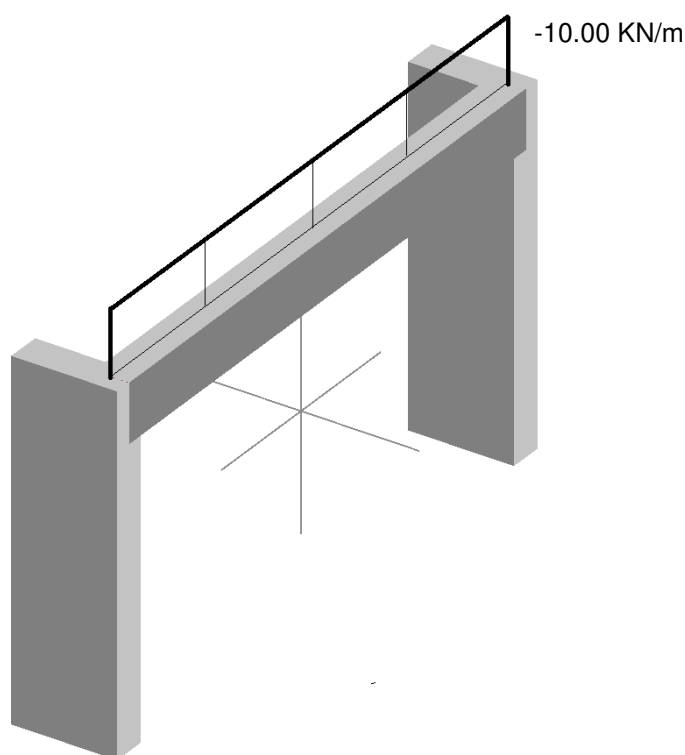
Test05

Efficacia del modello a “conci rigidi” per la trasmissione degli sforzi in presenza di eccentricità trave-pilastro

Dati del confronto

Altezza della struttura:	300 cm
Dimensione longitudinale:	500 cm
Sezione pilastri:	30x90 cm
Sezione travi:	30x50 cm
Carico distribuito lineare:	-10.00 KN/m
Eccentricità assi trave-pilastro:	30 cm
Condizioni di vincolo:	incastro al piede

Modello di riferimento per il calcolo



Geometria del problema e modello di calcolo

Si riportano le coordinate dei nodi in condizione di struttura indeformata:

Nodo I.	Nodo C.	Tipo legame	Coordinate			Tip. plinto	Tip. rinforzo	Master
			x	y	z			
			[cm]	[cm]	[cm]			
Nodo 1	1	Corpo rigido	0.00	45.00	0.00	-	-	-
Nodo 2	2	Corpo rigido	7.50	30.00	262.50	-	-	-
Nodo 3	3	Corpo rigido	500.00	45.00	0.00	-	-	-
Nodo 4	4	Corpo rigido	492.50	30.00	262.50	-	-	-
Nodo 2	5	-	15.00	15.00	275.00	-	-	2
Nodo 4	6	-	485.00	15.00	275.00	-	-	4
Nodo 2	7	-	0.00	45.00	250.00	-	-	2
Nodo 1	8	-	0.00	45.00	0.00	-	-	1
Nodo 4	9	-	500.00	45.00	250.00	-	-	4
Nodo 3	10	-	500.00	45.00	0.00	-	-	3

Nodo C.	Vincoli					
	Sx	Sy	Sz	Rx	Ry	Rz
	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
1	P	P	P	P	P	P
2	L	L	L	L	L	L
3	P	P	P	P	P	P
4	L	L	L	L	L	L
5	L	L	L	L	L	L
6	L	L	L	L	L	L
7	L	L	L	L	L	L
8	L	L	L	L	L	L
9	L	L	L	L	L	L
10	L	L	L	L	L	L

Il modello **corpo rigido** l'ipotesi viene condotta in modo che i nodi selezionati, rappresentativi del corpo siano legati da relazioni di spostamento rigido nello spazio. Le relazioni che regolano il fenomeno sono le seguenti:

$$Ux_s = Ux_m - (z_m - z_s) \times Ry_m + (y_m - y_s) \times Rz_m$$

$$Uy_s = Uy_m - (x_s - x_m) \times Rz_m + (z_s - z_m) \times Rx_m$$

$$Uz_s = Uz_m - (y_s - y_m) \times Rx_m + (x_s - x_m) \times Ry_m$$

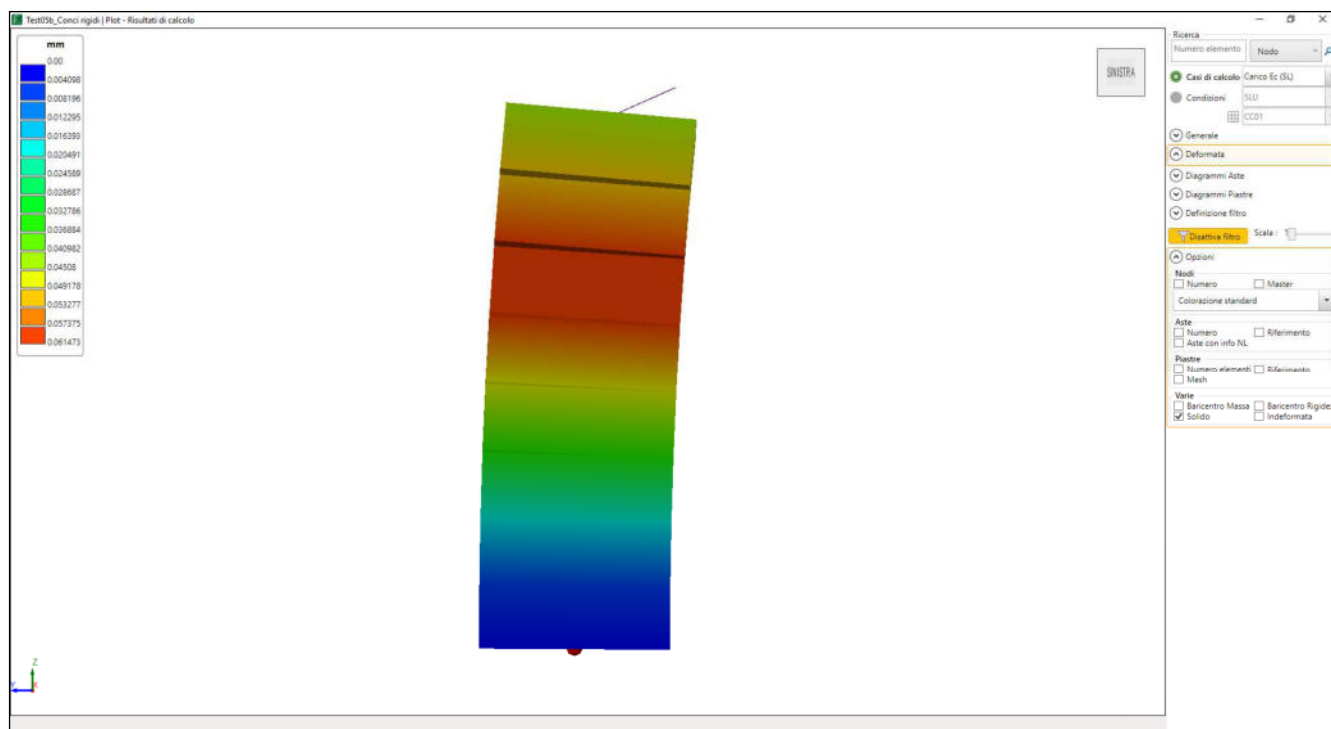
$$Rx_s = Rx_m$$

$$Ry_s = Ry_m$$

$$Rz_s = Rz_m$$

Momenti flettenti dovuti all'eccentricità del carico

Al fine di dimostrare l'efficacia del modello per la trasmissione degli sforzi dovuta all'eccentricità trave-pilastro, leggiamo dal software i momenti Mxz della condizione "Carico Ec" del file "Test05b_Conci rigidi.fnx":



Deformate e diagramma del momento Mxz

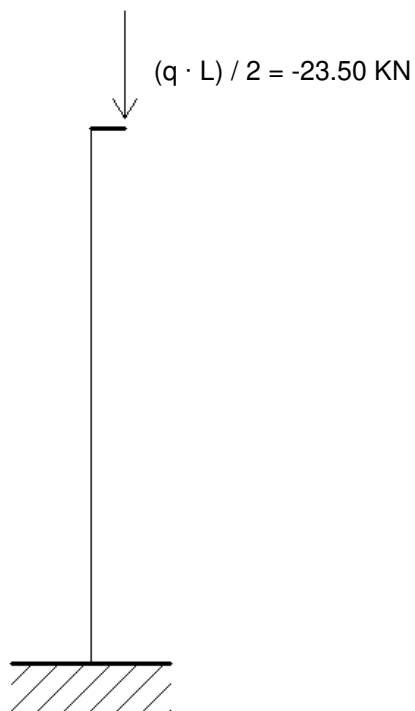
Asta	Sollecitazioni						
	X [cm]	N [KN]	Mt [KNm]	Mxz [KNm]	Txz [KN]	Mxy [KNm]	Txy [KN]
2 (Pilastro)	0	-23.50	1.83	-7.05	0.00	14.24	8.70
	125	-23.50	1.83	-7.05	0.00	3.36	8.70
	250	-23.50	1.83	-7.05	0.00	-7.52	8.70

Analisi dei risultati

Per controllare la bontà del modello basta calcolare il momento prodotto dal carico applicato per l'eccentricità:

Lunghezza netta trave (L): 4.70 m
 Carico lineare sulla trave (q): -10.00 KN/m.
 Eccentricità trave-pilastro (e): 0.30 m

Momento ecc. = $e \cdot (q \cdot L) / 2 = 0.3 \cdot (-10.00 \cdot 4.7) / 2 = -7.05$ KN/m



Dal confronto con i valori evidenziati in giallo si riscontra il **perfetto funzionamento** del modello.

1.2 Dichiarazione sull'accettabilità dei risultati

La differenza fra i valori determinati con il calcolo di predimensionamento e quelli determinati nel calcolo generale, sotto il profilo ingegneristico, possono essere dichiarati accettabili in considerazione che il predimensionamento è stato condotto su singoli elementi strutturali, mentre il programma di elaborazione impiegato, considera la struttura in modo tridimensionale e modelli di calcolo più sofisticati, soprattutto in presenza di elementi bidimensionali quali parete o piastre. Inoltre tale situazione da un giudizio positivo di congruità fra le scelte preventive operate e i risultati di calcolo generali.

Pertanto, alla luce di quanto esposto e dal confronto fra le sollecitazioni determinate dal calcolo preventivo di prima approssimazione e quelle calcolate dal programma di calcolo impiegato, il sottoscritto progettista strutturale, con la presente

D I C H I A R A

accettabili i risultati di calcolo della struttura in oggetto eseguiti con il Programma di Calcolo Strutturale FaTA Next, Versione 2023.9.2, Licenza n. S/593-D/251, e ne assume la piena responsabilità prevista dalla vigente normativa.

Comune: GENAZZANO
Provincia: ROMA

Archivio: PALESTRA POST.fnx - **Data :** 19/07/2023

VERIFICHE SBALZI IN ACCIAIO E POLICARBONATO

Oggetto: Adeguamento palestra scuola media

Committente	Progettista architettonico	Progettista strutturale	Direttore dei Lavori
Geologo	Collaudatore	Appaltatore	

COLLEGAMENTO CHS FLANGIATO CON ELEMENTO IN C.A. " NUOVO GIUNTO "

Il collegamento viene realizzato saldando una flangia all'estremità dell'asta in acciaio ed ancorandola all'elemento in c.a. per mezzo di tirafondi opportunamente iniettati con ancoranti specifici nel getto di calcestruzzo.

Normativa di riferimento : NTC-D.M.17/01/2018

MATERIALI IMPIEGATI

Acciaio PROFILATO : S275
ACCIAIO PIASTRA : S235
ACCIAIO NERVATURE : S235
Calcestruzzo della base : C20/25
Acciaio Barre di Ancoraggio : Classe 8.8

CARATTERISTICHE GEOMETRICHE DEL PROFILATO

Profilato : 60x40x4
Spessore : 4 mm

AZIONI DI PROGETTO SULLA FLANGIA

Azione	N [daN]	Tx [daN]	Ty [daN]	Mx [daNm]	My [daNm]	Mt [daNm]
C.C.1	0	0	-20	0	0	0
C.C.2	0	-20	-20	0	0	0
C.C.3	0	-20	-20	0	0	0

flangia

Forma : RETTANGOLARE.
Base : 150 mm
Altezza : 200 mm
Spessore : 6 mm

SISTEMA DI ANCORAGGIO

Barre di ancoraggio : M12 / 8.8
Tipo Ancoraggio : Barra filettata INIETTATA
Numero Totale di Tirafondi : 4
Disposizione dei Tirafondi : RETTANGOLARE
Profondità utile di ancoraggio : 200 mm

VERIFICA DEI TIRAFONDI

Con riferimento al paragrafo 4.2.8 delle NTC D.M. 17/01/2018 si ottiene :

Azione Massima Tagliante su singolo Tirafondo "Fv,Ed"	: 0.05 KN
Resistenza Tagliante del singolo Tirafondo "Fv,Rd"	: 32.26 KN
Azione Massima Assiale (Tiro) su singolo Tirafondo "Ft,Ed"	: 0 KN
Resistenza ad estrazione del singolo Tirafondo	: 0 KN
Combinazione di Carico più gravosa a taglio	: C.C.1
Coefficiente di sicurezza a taglio	: 645.12
Combinazione di Carico più gravosa a estrazione	: C.C.0
Coefficiente di sicurezza a estrazione	: 1000
Azione Massima Assiale (TRAZIONE) su singolo Bullone "Ft,Ed"	: 0 KN
Resistenza a Trazione del singolo Bullone "Ft,Rd"	: 48.38 KN
Coefficiente di sicurezza a trazione	: 1000
Sfruttamento da azioni combinate Trazione + Taglio	: 0.00
Valore massimo di riferimento per lo sfruttamento	: 1
Coefficiente di sicurezza a Trazione + Taglio	: 645.12
Coefficiente k per verifica a rifollamento	: 2.5
Coefficiente alfa per verifica a rifollamento	: 0.54
Azione Massima Tagliante su singolo Bullone "Fv,Ed"	: 0.05 KN
Resistenza a Rifollamento su singolo Bullone "Fb,Rd"	: 62.03 KN
Coefficiente di sicurezza a Rifollamento	: 1000

VERIFICA ELASTICA DELLA FLANGIA

La flangia viene verificata a resistenza tramite il criterio elastico (per classe 3) utilizzando la formula (6.1) riportata al punto 6.2.1 delle norme UNI EN 1993-1-1:2005 in presenza della sola tensione normale.

Per il calcolo delle sollecitazioni di verifica sono state impiegate le formule relative alle piastre incastrate al contorno (corrispondente con la linea di bullonatura) e con carico disposto lungo una circonferenza (corrispondente con il diametro del profilato CHS).

La verifica presenta esito positivo se il rapporto tensionale calcolato utilizzando la formula sopra citata risulta minore o uguale a 1.

Lo spessore della flangia viene verificato individuando una sezione trasversale funzione del numero e delle dimensioni delle nervature. Tale sezione, infatti, risulta delimitata sempre da due nervature e presenterà una forma a T rovescia in cui l'ala inferiore avrà come lunghezza la quantità 'Bs' pari, appunto alla distanza tra due nervature misurata lungo la circonferenza passante per i bulloni e come spessore lo spessore della flangia stessa mentre l'anima avrà come spessore quello relativo alle nervature e come altezza 'Hn' l'altezza delle nervature in corrispondenza della circonferenza impiegata per l'individuazione di 'Bs'.

Larghezza ala sezione a T di verifica Flangia, Bs	: 0 mm
Spessore ala sezione a T di verifica Flangia	: 6 mm
Altezza anima sezione a T di verifica Flangia, Hn	: 0 mm
Spessore anima sezione a T di verifica Flangia	: 5 mm
Azione Massima flettente sulla sezione di verifica	: 0 Nmm
Combinazione di Carico più gravosa	: C.C.0
Tensione Massima normale sulla sezione di verifica	: 0 N/mm ²
Modulo di resistenza elastico della sezione di verifica	: 0 mm ³
Tensione di snervamento della flangia	: 235 N/mm ²
Coefficiente di parziale sicurezza γ_0	: 1.05
Coefficiente di sicurezza f_s	: 1000

ESITO FINALE DELLE VERIFICHE : POSITIVO

Comune: Genazzano
Provincia: Roma

VERIFICHE ELEMENTI SECONDARI

Archivio: SOLAI ESISTENTI - Data : 23/10/2023

Oggetto: Adeguamento Palestra- solai esistenti

Committente:

Progettista

Progettista strutturale

Direttore dei Lavori

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1 Introduzione

1.1 Premessa

Il presente elaborato costituisce la relazione di calcolo strutturale, comprensiva di una descrizione generale dell'opera e dei criteri generali di analisi e verifica, in accordo con le prescrizioni contenute nel paragrafo 10.1 del Decreto Ministeriale del 17 gennaio 2018 "Norme Tecniche per le Costruzioni".

Relativamente al progetto in oggetto il documento descrive nel dettaglio le modalità operative di applicazione della normativa vigente.

1.1.1 Cenni sulla casa produttrice del software

La relazione seguente riporta i dati relativi ai criteri di progettazione, alla geometria, alla meccanica della struttura descritta al relativo paragrafo, nonché i relativi risultati dei calcoli strutturali così come ricavati dal calcolatore elettronico tramite l'utilizzo del Software "Solai Next" prodotto e distribuito da Stacec srl con sede in Bovalino (RC), e concesso in licenza al responsabile dei calcoli stessi.

Solai Next è un programma sviluppato specificatamente per la progettazione e la verifica di solai e coperture in C.A., in Acciaio o in legno (massiccio e/o lamellare).

Solai Next articola le operazioni di progetto secondo tre fasi distinte:

- 1) **preprocessore**: fase di Input e di modellazione;
- 2) **solutore**: fase di elaborazione tramite un solutore agli elementi finiti;
- 3) **post-processore**: fase di verifica degli elementi, creazione degli elaborati grafici e della relazione di calcolo.

1.2 Descrizione dell'opera da calcolare

Comune : Genazzano
Provincia : Roma
Oggetto : Adeguamento Palestra- solai esistenti

Committente :
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Provincia :
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Indirizzo Email :

Progettista :
Architettonico :
Indirizzo :
Comune :
Provincia :
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Indirizzo PEC :

Progettista Strutturale :
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Indirizzo PEC	:
Geologo	:
Indirizzo	:
Comune	:
Provincia	:
Telefono	:
Indirizzo Email	:
Indirizzo PEC	:
Collaudatore	:
Indirizzo	:
Comune	:
Provincia	:
Telefono	:
Indirizzo Email	:
Indirizzo PEC	:
Appaltatore	:
Indirizzo	:
Comune	:
Provincia	:
Telefono	:
Indirizzo Email	:
Indirizzo PEC	:
Nome File	: Nuovo Progetto.sol

1.3 Riferimenti Legislativi

Tutte le operazioni illustrate nel proseguo, relative all'analisi della struttura ed alle verifiche sugli elementi sono state effettuate in piena conformità alle seguenti norme:

UNI ENV 1992-1-1: Eurocodice 2:

"Progettazione delle strutture in calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici"

UNI ENV 1993-1-1: Eurocodice 3:

"Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici."

UNI ENV 1998-1-1: Eurocodice 8:

"Indicazioni progettuali per la resistenza sismica delle strutture - Parte 1-1: Regole generali."

D.M. 17/01/2018:

"Norme tecniche per le costruzioni."

Circolare CSLPP n. 7 del 21/01/2019:

"Istruzioni per l'applicazione dell'aggiornamento delle «Norme tecniche per le costruzioni» di cui al decreto ministeriale 17 gennaio 2018."

CNR-DT 200 R1/2013 del 15/05/2014:

"Istruzioni per la progettazione, l'esecuzione ed il controllo di interventi di consolidamento statico mediante l'utilizzo di compositi fibrorinforzati."

1.4 Convenzioni, unità di misura e simboli adottati

Nei calcoli sono state utilizzate le seguenti unità:

- distanze : cm
- forze, tagli, e sforzi normali : kN
- coppie e momenti flettenti : kNm
- carichi sulle aste : kN/m²
- carichi su superfici : kN/m²
- peso specifico : kN/m³
- tensioni e resistenze : N/mm²
- temperatura : °C

I simboli adottati hanno il seguente significato:

- q : fattore di comportamento;
- R_{ck} : Resistenza caratteristica cubica a compressione del calcestruzzo;
- f_{ck} : Resistenza caratteristica cilindrica a compressione del calcestruzzo;
- E_c : Modulo elastico secante del calcestruzzo;
- E_{ct} : Modulo elastico a trazione del calcestruzzo
- f_{cd} : Resistenza di calcolo del calcestruzzo;
- f_{ctk} : Resistenza caratteristica a trazione;
- ν : Coefficiente di Poisson;
- α_t : Coefficiente di dilatazione termica;
- γ_s : peso specifico;
- f_{yk} : Resistenza caratteristica di snervamento dell'acciaio;
- f_{tk} : Resistenza caratteristica di rottura dell'acciaio;
- f_d : resistenza di calcolo dell'acciaio;
- A : Superficie della sezione trasversale;
- $[R]$: Elemento con rinforzo;
- J_x : Momento di inerzia rispetto all'asse X;
- J_y : Momento di inerzia rispetto all'asse Y;
- J_{xy} : Momento di inerzia centrifugo rispetto agli assi X ed Y;
- J_T : Fattore torsionale;
- N : sforzo normale;
- M_T : Momento Torcente;
- M_{xz} : Momento Flettente X-Z;
- T_{xz} : Taglio X-Z;
- M_{xy} : Momento Flettente X-Y;
- T_{yx} : Taglio X-Y;
- f_i : Frequenza del modo i-esimo;
- T_i : Periodo del modo i-esimo;
- Γ_x : Fattore di partecipazione del modo i-esimo in direzione x;
- Γ_y : Fattore di partecipazione del modo i-esimo in direzione y;
- Γ_z : Fattore di partecipazione del modo i-esimo in direzione z;
- N_{sd} : Sforzo Normale sollecitante di calcolo;
- $M_{sd,xz}$: Momento Flettente X-Z sollecitante di calcolo;

$M_{Sd,XY}$: Momento Flettente X-Y sollecitante di calcolo;
 M_{tS} : Momento Torcente sollecitante di calcolo;
 $V_{Sd,XZ}$: Taglio X-Z sollecitante di calcolo;
 $V_{Sd,XY}$: Taglio X-Y sollecitante di calcolo;
 N_{Rd} : Sforzo Normale resistente di calcolo;
 $M_{Rd,XZ}$: Momento Flettente X-Z resistente di calcolo;
 $M_{Rd,XY}$: Momento Flettente X-Y resistente di calcolo;
 M_{tR} : Momento Torcente resistente di calcolo;
 $V_{Rd,XZ}$: Taglio X-Z resistente di calcolo;
 $V_{Rd,XY}$: Taglio X-Y resistente di calcolo;
 σ_C : Tensioni del calcestruzzo;
 σ_S : Tensioni delle armature;
 $\sigma_{C,lim}$: Tensioni limite del calcestruzzo;
 $\sigma_{S,lim}$: Tensioni limite dell'acciaio;
 f/l : rapporto freccia/lunghezza;
 f_{lim} : valore limite del rapporto freccia/lunghezza;

2 Descrizione del Modello

2.1 Modello assunto per il calcolo

L'analisi numerica della struttura è stata condotta attraverso l'utilizzo del metodo degli elementi finiti ipotizzando, a seconda dei casi, un comportamento elastico-lineare oppure elastoplastico.

Il metodo degli elementi finiti consiste nel sostituire il modello continuo della struttura con un modello discreto equivalente e di approssimare la funzione di spostamento con polinomio algebrico, definito in regioni (dette appunto elementi finiti) che sono delle funzioni interpolanti il valore di spostamento definito in punti discreti (detti nodi).

Gli elementi finiti utilizzabili ai fini della corretta modellazione della struttura verranno descritti di seguito.

Il modello di calcolo può essere articolato sulla base dell'ipotesi di impalcato rigido, in funzione della reale presenza di solai continui atti ad irrigidire tutto l'impalcato.

Tale ipotesi viene realizzata attraverso l'introduzione di adeguate relazioni cinematiche tra i gradi di libertà dei nodi costituenti l'impalcato stesso.

Il metodo di calcolo adottato, le combinazioni di carico, e le procedure di verifica saranno descritte di seguito.

Riferimento globale e locale

La struttura viene definita utilizzando una terna di assi cartesiani formanti un sistema di riferimento levogiro, unico per tutti gli elementi e chiamato "globale". Localmente esiste un ulteriore sistema di riferimento, detto appunto "locale", utile alla definizione delle caratteristiche di rigidezza dei singoli elementi.

I due sistemi di riferimento sono correlati da una matrice, detta di rotazione.

Modellazione geometrica della struttura

Il modello geometrico (mesh) della struttura è basato sull'utilizzo dei seguenti elementi:

- Nodi

Si definiscono nodi, entità geometriche determinate tramite le tre coordinate nel riferimento globale.

I nodi, nello spazio tridimensionale, posseggono tre gradi di libertà traslazionali e tre rotazionali.

Essi sono posizionati in modo da definire gli estremi degli elementi finiti e, di regola, in ogni discontinuità strutturale, di carico, di caratteristiche meccaniche, di campo di spostamento.

- Vincoli e Molle

I gradi di libertà possono essere vincolati, bloccando il cinematismo nella direzione voluta o assegnando "molle" applicate ai nodi tramite valori di rigidezza finiti.

Un vincolo assegna a priori un valore di spostamento nullo, e quindi la variabile corrispondente viene eliminata.

- Vincoli interni

Tali vincoli servono a definire le modalità di trasmissione degli sforzi dall'elemento finito ai nodi. Ciò viene associato al concetto di trasferimento della rigidezza.

Generalmente l'elemento considerato è rigidamente connesso ai nodi che lo definiscono, in modo da bloccare tutti i gradi di libertà relativi. E' possibile, comunque "rilasciare" le caratteristiche delle sollecitazioni, in modo da svincolare i gradi di libertà corrispondenti. Nel caso particolare, il modello utilizzato consente di svincolare le tre rotazioni intorno agli assi locali dell'asta.

- Aste

Si tratta di elementi finiti monodimensionali ad asse rettilineo delimitate da due nodi (i nodi di estremità).

Per questi elementi generalmente la funzione interpolante è quella del modello analitico per cui la mesh non influisce sensibilmente sulla convergenza.

Le aste sono dotate di rigidezza assiale, flessionale, e a taglio, secondo il modello classico della trave inflessa di Eulero-Bernoulli e/o Timoshenko.

Alla singola asta è possibile associare una sezione costante per tutta la sua lunghezza.

- Asta su suolo elastico

Si tratta di elementi finiti monodimensionali ad asse rettilineo, di definizione simile alle aste. Sono utili a modellare travi

di fondazione, considerate poggianti su suolo alla **Winkler**, e reagenti sia rispetto alle componenti traslazionali di cinematismo, sia rotazionali.

-Asta con plasticità diffusa

Si tratta di un elemento finito monodimensionale in grado di modellare la risposta elastoplastica in ogni punto dello stesso. A tal proposito l'asse della trave viene discretizzato in un numero finito di sezioni (significative ai fini dell'integrazione numerica) ognuna delle quali viene a sua volta suddivisa in un certo numero di fibre. La risposta 3d assiale e flessionale viene ottenuta attraverso l'integrazione delle sollecitazioni relative alla singola fibra sull'intera sezione trasversale.

- Lastra-Piastra

Si tratta di elementi finiti bidimensionali, definiti da tre o quattro nodi, posti ai vertici rispettivamente di un triangolo o di un quadrilatero irregolare. La geometria reale dell'elemento viene ricondotta ad un triangolo rettangolo (elemento a tre nodi) o ad un quadrato definito nella trattazione isoparametrica.

L'elemento lastra-piastra non ha rigidità per la rotazione intorno all'asse perpendicolare al suo piano e viene trattato secondo la teoria di **Mindlin-Reissner**. Nel modello considerato si tiene conto dell'accoppiamento tra azioni flessionali e membranali.

- Forze e coppie concentrate

Per la risoluzione statica della struttura, tutti i carichi applicati agli elementi vengono trasferiti ai nodi. Ciò avviene in automatico per il peso delle aste, delle piastre, delle pareti, dei pannelli di carico presenti sulle aste e per la distribuzione di carico applicate

agli elementi bidimensionali.

Il modello di calcolo consente anche l'introduzione di forze e coppie ai nodi.

Le forze sono dirette lungo le tre direzioni del sistema di riferimento globale ed in entrambi i versi per ogni direzione.

Le coppie concentrate sono riferite ai tre assi del riferimento globale, in entrambi i versi di rotazione di ciascun asse.

- Carichi distribuiti

Il modello di calcolo consente anche l'introduzione di carichi ripartiti sulle aste e di distribuzione di carico su piastre e pareti.

I carichi ripartiti sulle aste possono essere riferite sia al riferimento globale, sia al riferimento locale, lungo le tre direzioni ed in entrambe i versi. E' possibile anche introdurre carichi distribuiti torcenti agenti intorno all'asse dell'asta ed in entrambe i versi di rotazione.

Tutti i tipi di carico ripartito devono avere forma trapezia.

Sugli elementi bidimensionali, che fanno parte della mesh di piastre e pareti, è possibile assegnare una distribuzione uniforme, avente le caratteristiche di una pressione diretta ortogonalmente all'elemento.

- Pannelli di carico

Il pannello di carico è un concetto legato alla reale distribuzione di carichi gravanti sulle aste. Ne fanno parte: solai, balconi, scale.

Da tali pannelli, di forma irregolare come definiti dalla geometria dell'input, si passa alla quantificazione dei carichi trapezoidali ripartiti sulle aste. Per meglio simulare l'effetto dei pannelli, vengono generati in modo automatico anche dei carichi ripartiti torcenti, anch'essi di forma trapezia, relativi ai carichi distribuiti equivalenti al pannello.

- Sezioni

Le sezioni assegnabili alle aste sono definite attraverso le caratteristiche geometrico-elastiche, i moduli di resistenza plastici (sezioni in acciaio) ed il materiale.

Materiali

I parametri che descrivono il comportamento meccanico dei materiali variano in funzione di:

- Natura del materiale;
- Tipo di analisi (Lineare o non Lineare);
- Modello meccanico adottato.
- Comportamento isotropo, ortotropo ed anisotropo.

Oltre a questi vengono associati anche il peso dell'unità di volume ed il coefficiente di dilatazione termica.

Matrici di calcolo della struttura

Dalla discretizzazione geometrica della struttura vengono definite le matrici utili a studiare il comportamento globale della struttura in esame.

- Matrice di rigidezza

Tale matrice viene costruita partendo dalla matrice di rigidezza espressa nel sistema di riferimento locale dell'elemento considerato. Attraverso un'operazione di trasformazione, mediante la matrice di rotazione, viene riferita al sistema di riferimento globale. L'ultima operazione consiste nell'"assemblaggio" delle singole matrici di ogni elemento, in modo da formare un'unica matrice relativa all'intera struttura.

- Matrice delle masse

La generazione della matrice globale è del tutto analoga a quella sopra descritta per la matrice di rigidezza. La matrice delle masse è di tipo "consistent" e considera l'effettiva distribuzione delle masse della struttura. Come definito dalla normativa, alle masse relative ai carichi permanenti, viene aggiunta un'aliquota delle masse equivalenti ai carichi d'esercizio.

- Matrice di smorzamento

Il modello di smorzamento adottato è di tipo viscoso ed in modo particolare quello di **Rayleigh** detto anche smorzamento proporzionale. Secondo tale modello la matrice di smorzamento viene calcolata secondo la relazione:

$$C = \alpha M + \beta K$$

dove α e β sono le costanti di smorzamento di **Rayleigh**.

2.2 Tipo di calcolo

2.2.1 Analisi statica lineare

Il calcolo risolutivo della struttura viene condotto utilizzando un sistema di equazioni lineari (di dimensioni pari ai gradi di libertà), secondo la relazione:

$$u = K^{-1} F$$

dove:

- F** : vettore dei carichi risultanti applicate ai nodi;
- u** : vettore dei cinematismi nodali;
- K** : matrice di rigidezza globale.

Tale analisi è stata ripetuta per tutte le condizioni presenti sulla struttura, identificati dai vettori dei carichi relativi a:

- carichi permanenti;
- carichi d'esercizio;
- delta termico;
- torsioni accidentali;
- carichi utente;

2.3 Azioni sulla struttura

2.3.1 Azioni di carico elementari

Con riferimento al §2.5.1 delle NTC 2018, la classificazione delle azioni di carico che agiscono sulla struttura può avvenire secondo tre parametri fondamentali:

Classificazione delle azioni in base al modo di esplicarsi;

Classificazione delle azioni secondo la risposta strutturale;

Classificazione delle azioni secondo la variazione della loro intensità nel tempo.

Nella seguente tabella vengono riportate le azioni di carico per il caso in esame con riferimento a tale classificazione.

Nome Azione	Modo di esplicarsi	Risposta strutturale	Intensità nel tempo
Carichi permanenti strutturali	Dirette	Statiche	Permanente (G1)
Carichi permanenti non strutturali	Dirette	Statiche	Permanente (G2)
Carichi d'esercizio	Dirette	Statiche	Variabili di lunga durata (Q)
Variazione di temperatura	Indirette	Statiche	Variabili di breve durata (Q)
Sisma in direzione X	Dirette	Pseudo statiche	Sismiche (E)
Sisma in direzione Y	Dirette	Pseudo statiche	Sismiche (E)
Sisma in direzione Z	Dirette	Pseudo statiche	Sismiche (E)
Torsione accidentale sisma X	Dirette	Pseudo statiche	Sismiche (E)
Torsione accidentale sisma Y	Dirette	Pseudo statiche	Sismiche (E)
Vento in direzione X	Dirette	Pseudo statiche	Variabili di breve durata (Q)
Vento in direzione Y	Dirette	Pseudo statiche	Variabili di breve durata (Q)
Neve	Dirette	Statiche	Variabili di breve durata (Q)

Per le azioni elementari di tipo variabile, in funzione del periodo di riferimento dell'azione stessa, si fa riferimento a dei valori cosiddetti caratteristici Q_k (valori che corrispondono ad un frattile pari al 95 % della popolazione dei massimi). Nella definizione delle combinazioni delle azioni che possono agire contemporaneamente, assieme alle azioni permanenti, si ha una concomitanza di azioni variabili Q_{kj} . Per tener conto della probabilità più o meno bassa che queste possano presentarsi contemporaneamente, in funzione della durata percentuale relativa ai livelli di intensità dell'azione variabile stessa, si assume a giro che una di esse sia predominante (e quindi il valore considerato è quello caratteristico) e le altre vengono considerate come secondarie (il cui valore viene ridotto mediante un opportuno coefficiente ψ).

Di seguito per le azioni variabili vengono riportati tali coefficienti di combinazione:

Nome azione	ψ_0	ψ_1	ψ_2
Carichi d'esercizio	0.7	0.5	0.3
Variazione di temperatura	0.6	0.5	0.0
Vento in direzione X	0.6	0.2	0.0
Vento in direzione Y	0.6	0.2	0.0
Neve	0.5	0.2	0.0

dove:

- ψ_0 : coefficiente di combinazione utilizzato per ottenere il **valore raro** (valore di durata breve ma ancora significativa nei riguardi della possibile concomitanza con altre azioni variabili);
- ψ_1 : coefficiente di combinazione utilizzato per ottenere il **valore frequente** (valore corrispondente al frattile 95% della distribuzione temporale dell'intensità e cioè che è superato per una limitata frazione del periodo di riferimento);
- ψ_2 : coefficiente di combinazione utilizzato per ottenere il **valore quasi permanente** (valore relativo alla media della distribuzione temporale dell'intensità).

Le azioni di carico, agenti sulla struttura, sono riportate nella tabella seguente:

Azione	Nome azione	Tipo azione	ψ_0	ψ_1	ψ_2
1	G1	G1	1.00	1.00	1.00
2	G2	G2	1.00	1.00	1.00
3	Q ese	Qk (Cat. C4)	0.70	0.70	0.60
4	Q balconi-scale	Qk (Cat. C4)	0.70	0.50	0.30
5	Temperatura	Qk (Var. termiche)	0.60	0.50	0.00
6	Copertura	Qk (Cat. H)	0.00	0.00	0.00
7	Sisma Z	Sisma Z	1.00	0.00	0.00
8	Neve	Qk (Neve <= 1000 m)	0.50	0.20	0.00

2.3.2 Condizioni di carico

Le possibili condizioni di carico agenti sulla struttura vengono valutate con riferimento alle combinazioni delle azioni elementari riportate al § 2.5.3 dell'NTC 2018 da utilizzare per le verifiche agli stati limite.

Condizioni di carico per stati limite ultimi SLU

Le verifiche agli stati limite ultimi vengono condotte facendo riferimento ai seguenti stati limite:

- lo stato limite di equilibrio come corpo rigido (**EQU**);
- lo stato limite di resistenza della struttura compresi gli elementi di fondazione (**STR**);
- lo stato limite di resistenza del terreno (**GEO**).

Per quanto riguarda lo stato limite di resistenza della struttura (**STR**) in assenza di sisma vengono considerate le seguenti condizioni di carico:

Stato Limite SLU (Struttura)								
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma Z	Neve
CC1	1.3	1.5	1.5	1.05	0.9	0	0	0
CC2	1.3	1.5	1.05	1.5	0.9	0	0	0
CC3	1.3	1.5	1.05	1.05	0.9	1.5	0	0
CC4	1.3	1.5	1.05	1.05	1.5	0	0	0
CC5	1.3	1.5	1.05	1.05	0.9	0	0	1.5
CC6	1.3	1.5	1.05	1.05	0	0	0	0.75
CC7	1.3	1.5	1.05	1.05	0	0	0	0.75
CC8	1.3	1.5	1.05	1.05	0	0	0	0.75

Per quanto riguarda gli stati limite relativi alla fondazione (**A1 e A2**) in assenza di sisma vengono considerate le seguenti condizioni di carico:

Condizioni di carico per stati limite di esercizio SLE

Le condizioni di carico considerate per le verifiche agli stati limite di esercizio vengono divise in funzione dei valori delle azioni relative ai livelli di intensità dell'azione variabile (valori frequenti, rari e quasi permanenti). Di seguito si riportano i le condizioni considerate con i rispettivi coefficienti:

Frequenti

Stato Limite SLE (Frequenti)								
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma Z	Neve
CC1	1	1	0.7	0.3	0	0	0	0
CC2	1	1	0.6	0.5	0	0	0	0
CC3	1	1	0.6	0.3	0	0	0	0
CC4	1	1	0.6	0.3	0.5	0	0	0
CC5	1	1	0.6	0.3	0	0	0	0.2
CC6	1	1	0.6	0.3	0	0	0	0
CC7	1	1	0.6	0.3	0	0	0	0
CC8	1	1	0.6	0.3	0	0	0	0

Rare

Stato Limite SLE (Rare)								
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma Z	Neve
CC1	1	1	1	0.7	0.6	0	0	0
CC2	1	1	0.7	1	0.6	0	0	0
CC3	1	1	0.7	0.7	0.6	1	0	0
CC4	1	1	0.7	0.7	1	0	0	0
CC5	1	1	0.7	0.7	0.6	0	0	1
CC6	1	1	0.7	0.7	0	0	0	0.5
CC7	1	1	0.7	0.7	0	0	0	0.5
CC8	1	1	0.7	0.7	0	0	0	0.5

Quasi permanenti

Stato Limite SLE (Quasi permanenti)								
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma Z	Neve
CC1	1	1	0.6	0.3	0	0	0	0
CC2	1	1	0.6	0.3	0	0	0	0
CC3	1	1	0.6	0.3	0	0	0	0
CC4	1	1	0.6	0.3	0	0	0	0
CC5	1	1	0.6	0.3	0	0	0	0
CC6	1	1	0.6	0.3	0	0	0	0
CC7	1	1	0.6	0.3	0	0	0	0
CC8	1	1	0.6	0.3	0	0	0	0

Condizioni di carico per stati limite sismici

Per ognuno degli stati limite sismici, vengono considerate le seguenti condizioni di carico:

Stato Limite SLV (Struttura)								
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma Z	Neve
CC1	1	1	0.6	0.3	0	0	1	0
CC2	1	1	0.6	0.3	0	0	-1	0

Stato Limite SLC (Struttura)								
------------------------------	--	--	--	--	--	--	--	--

	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma Z	Neve
CC1	1	1	0.6	0.3	0	0	1	0
CC2	1	1	0.6	0.3	0	0	-1	0

Stato Limite SLD (Struttura)								
	G1	G2	Q ese	Q balconi-scale	Temperatura	Copertura	Sisma Z	Neve
CC1	1	1	0.6	0.3	0	0	1	0
CC2	1	1	0.6	0.3	0	0	-1	0

Il calcolo delle forze di inerzia viene effettuato considerando i seguenti pesi sismici (§2.5.3 NTC 2018):

Azione da peso sismico	Peso sismico (ψ_2)
G1	1.00
G2	1.00
Q ese	0.60
Q balconi-scale	0.30
Copertura	0.00
Neve	0.00

2.4 Procedura di verifica degli elementi

2.4.1 Elementi in C.A.

Le singole verifiche vengono descritte qui di seguito:

Flessione composta deviata

Le sollecitazioni che vengono considerate in tale verifica sono: Sforzo Normale, Momento Flettente X-Z, Momento Flettente X-Y.

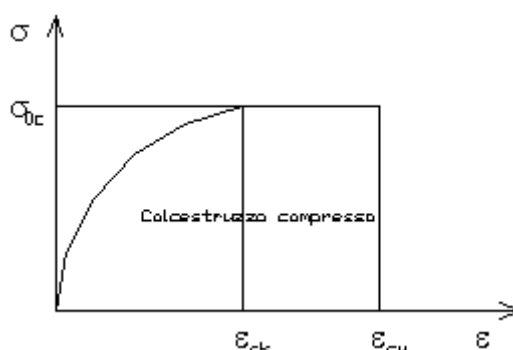
La verifica di resistenza è soddisfatta se la sollecitazione determinata dalla condizione considerata cade all'interno del dominio di sicurezza determinato, attraverso la conoscenza: - del comportamento meccanico della sezione in esame;

- delle caratteristiche dei materiali di cui è composta;
- dei coefficienti di sicurezza forniti dalla normativa seguita.

Il calcolo è condotto nelle ipotesi che:

1. Le sezioni rimangano piane fino a rottura;
2. Ci sia perfetta aderenza fra acciaio e calcestruzzo;
3. Il calcestruzzo non abbia alcuna capacità di resistenza a trazione.

Il diagramma tensioni-deformazioni assunto per il calcestruzzo è di tipo parabola-rettangolo come indicato nella seguente figura:



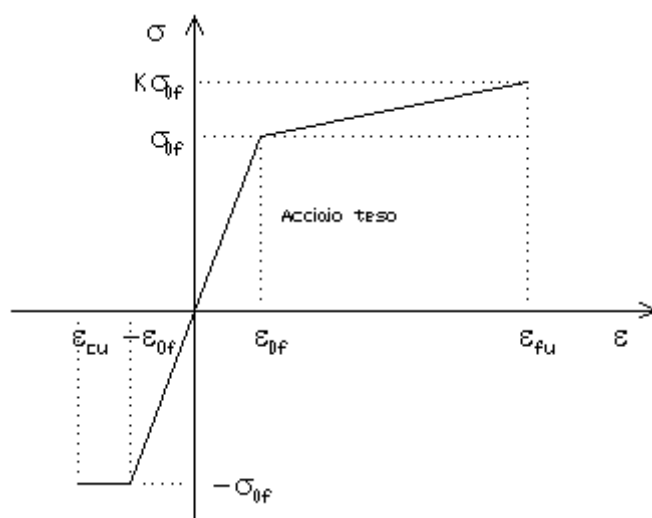
dove: ϵ_{ck} = deformazione caratteristica;
 ϵ_{cu} = deformazione ultima del calcestruzzo;
 σ_{0c} = resistenza di calcolo del calcestruzzo;

Le equazioni che descrivono il diagramma sono:

$$\epsilon < \epsilon_{ck} : \sigma(\epsilon) = 1000 \sigma_{0c} \epsilon (1 - 250 \epsilon)$$

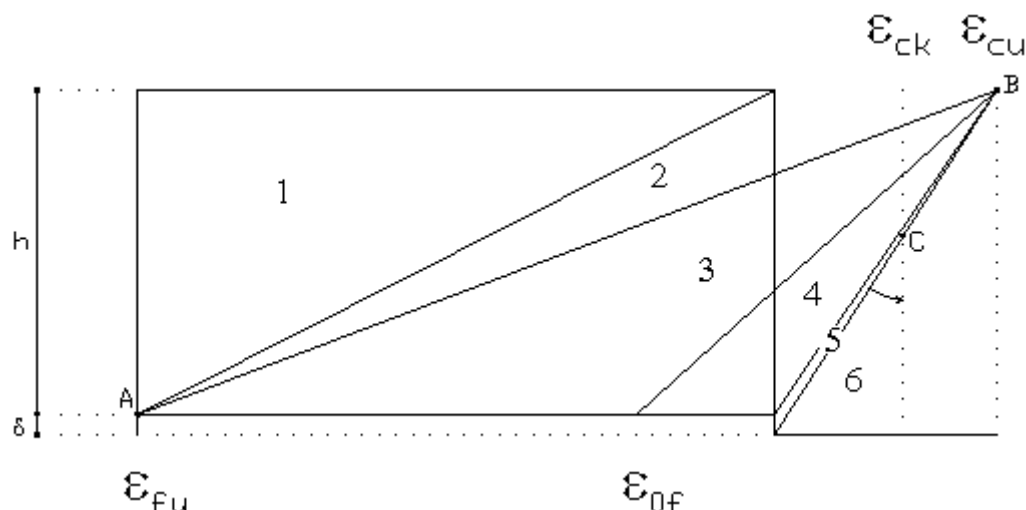
$$\epsilon_{ck} < \epsilon < \epsilon_{cu} : \sigma(\epsilon) = \sigma_{0c}$$

Il diagramma tensioni-deformazioni assunto per l'acciaio è indicato nella seguente figura:



dove: $\epsilon_{0f} = \sigma_{0f}/E$
 E : Modulo di elasticità dell'acciaio;
 σ_{0f} : resistenza di calcolo dell'acciaio;
 k : rapporto di sovrarresistenza (se è pari ad 1 il comportamento è bilineare elastico-perfettamente plastico);
 f_{yk} : Resistenza caratteristica dell'acciaio
 γ_m : coefficiente di sicurezza dell'acciaio;
 ϵ_{fu} : deformazione ultima dell'acciaio;
 ϵ_{cu} : deformazione ultima del calcestruzzo;

Le limitazioni delle deformazioni unitarie per il conglomerato e per l'acciaio conducono a definire sei diversi campi (o regioni) nei quali potrà trovarsi la retta di deformazione specifica. Tali campi sono descritti nel seguente modo:



Campo 1 : è caratterizzato dall'allungamento massimo tollerabile per l'acciaio pari a ϵ_{fu} . Il diagramma delle deformazioni specifiche appartiene ad un fascio di rette passanti per il punto (A) mentre la distanza dall'asse neutro potrà variare da $-\infty$ a 0. È il caso di trazione semplice o con piccola eccentricità; la sezione risulta interamente tesa. La crisi si ha per cedimento dell'acciaio teso.

Campo 2 : è caratterizzato dall'allungamento massimo tollerabile per l'acciaio pari a ϵ_{fu} e dalla rotazione del diagramma attorno al punto (A). La deformazione specifica del calcestruzzo varia da 0 al valore massimo del calcestruzzo compresso (ϵ_{cu}) mentre la distanza dell'asse neutro dal lembo compresso può variare da 0 a $0.259h$. La sezione risulterà in parte tesa ed in parte compressa e quindi sarà sollecitata a flessione semplice o composta.

Campo 3 : è caratterizzato dall'accorciamento massimo del conglomerato pari a ϵ_{cu} . Le rette di deformazione appartengono ad un fascio passante per (B). La massima tensione del calcestruzzo in questa regione è pari a quella di rottura di calcolo mentre l'armatura è ancora deformata in campo plastico. La sezione risulterà in parte tesa ed in parte compressa e quindi sarà sollecitata a flessione semplice o composta.

Campo 4 : è caratterizzato dall'accorciamento massimo del conglomerato pari a ϵ_{cu} . Le rette di deformazione appartengono ad un fascio passante per (B). La massima tensione del calcestruzzo in questa regione è pari a quella di rottura di calcolo mentre l'armatura è sollecitata con tensioni inferiori allo snervamento e può risultare anche scarica. La sezione risulterà in parte tesa ed in parte compressa e quindi sarà sollecitata a flessione semplice o composta.

Campo 5 : è caratterizzato dall'accorciamento massimo del conglomerato pari a ϵ_{cu} . Le rette di deformazione appartengono ad un fascio passante per (B) mentre la distanza dell'asse neutro varia da h ad $h + d$. L'armatura in tale regione è sollecitata a compressione e pertanto tutta la sezione è compressa; è questo il caso della flessione composta.

Campo 6 : è caratterizzato dall'accorciamento massimo del conglomerato compresso che varia fra ϵ_{cu} e ϵ_{cu} . Le rette di deformazione specifica appartengono ad un fascio passante per (C) e la distanza dell'asse neutro varia fra 0 e $-\infty$. La distanza di (C) dal lembo superiore vale $3h/7$. La sezione risulta sollecitata a compressione semplice o composta.

Taglio-Punzonamento

Il punzonamento può essere determinato da un carico concentrato o da una reazione agente su area relativamente piccola, denominata area caricata di una soletta o di una fondazione.

La resistenza a punzonamento viene verificata lungo la faccia del pilastro (o impronta di carico) e lungo il perimetro di verifica u_1 . Se è richiesta un'armatura a taglio, le stessa verrà estesa fino ad un ulteriore perimetro di verifica u_{out} .

Il perimetro di verifica di base u_1 , viene collocato a una distanza di $2d$ dall'area caricata definito, per aree poligonali, come quello di minima lunghezza, dove d è l'altezza utile della sezione di verifica.

Lungo il perimetro dei pilastro, o il perimetro dell'area caricata, non deve essere superata la massima tensione di taglio-punzonamento:

$$V_{Ed} \leq V_{Rd,max}$$

dove:

$$V_{Rd,max} = 0.5 b_w d v f_{cd}$$

$$v = 0.6 (1 - f_{ck}/250)$$

Nel caso in cui V_{Ed} supera il valore $V_{Rd,c}$ per la sezione di verifica considerata, verrà disposta un'apposita armatura per il taglio-punzonamento:

$$V_{Rd,c} = C_{Rd,c} k (100 \rho_l f_{ck})^{1/3} + k_1 \sigma_{cp} \geq (v_{min} + k_1 \sigma_{cp})$$

dove:

$$C_{Rd,c} = 0.18/\gamma_c$$

$$k = 1 + \sqrt{200/d} \leq 2 \text{ d in mm}$$

$$\sigma_{cp} = (\sigma_{cy} + \sigma_{cz})/2 \text{ tensioni normali agenti}$$

$$k_1 = 0.1$$

$$v_{min} = 0.035 k^{3/2} f_{ck}^{1/2}$$

Dove è richiesta l'armatura a taglio, il valore resistente è il seguente:

$$V_{Rd,cs} = 0.75 V_{Rd,c} + 1.5 (d/s_r) A_{sw} f_{ywd} (1/(u_1 d))$$

dove:

A_{sw} è l'area di armatura a taglio-punzonamento situata su di un perimetro interno al pilastro
 s_r è il passo radiale dei perimetri dell'armatura a taglio-punzonamento

Stato tensionale

Tale verifica rientra nell'ambito della verifica di esercizio. Il calcolo delle tensioni si ottiene sfruttando le ipotesi tradizionali per il calcolo del cemento armato ordinario, e cioè:

1. assunzione dei materiali elastico lineari;
2. conservazione delle sezioni piane al crescere dei carichi;
3. perfetta aderenza tra acciaio e calcestruzzo;
4. resistenza nulla a trazione del calcestruzzo;

Inoltre può essere stabilito un coefficiente di omogeneizzazione diverso dal valore ordinario.

Le tensioni di esercizio si possono calcolare considerando le combinazioni di carico caratteristica, frequente e quasi permanente.

La verifica consiste nel confrontare le tensioni di calcolo con quelle limite dei materiali.

Fessurazione

Il calcolo delle ampiezze delle fessure si effettua considerando anche la parte di calcestruzzo reagente a trazione utilizzando la seguente espressione

$$W_k = s_{r,max} (\varepsilon_{sm} - \varepsilon_{cm})$$

W_k : ampiezza di calcolo delle fessure;
 $s_{r,max}$: distanza massima tra le fessure;
 ε_{sm} : deformazione media dell'armatura che tiene conto, nella combinazione di carico considerata, anche degli effetti "tension stiffening";
 ε_{cm} : deformazione media del calcestruzzo.

La quantità $\varepsilon_{sm} - \varepsilon_{cm}$ si ottiene dalla seguente espressione:

$$\varepsilon_{sm} - \varepsilon_{cm} = \frac{\sigma_s - 0.4 \frac{f_{ctm}}{\rho_{eff}} (1 + \alpha_e \rho_{eff})}{E_s} \geq 0.6 \frac{\sigma_s}{E_s}$$

dove:

σ_s : tensione dell'acciaio teso calcolata a sezione fessurata;

E_s : modulo elastico dell'acciaio;

σ_s : tensione dell'acciaio teso calcolata nella sezione per una condizione di carico che induce alla prima fessurazione;

α_s : rapporto E_s/E_{cm} ;

ρ_{eff} : percentuale di armatura efficace.

La quantità s_{rm} si ottiene dalla seguente espressione:

$$s_{rm} = k_3 c + k_1 k_2 k_4 (\phi / \rho_{eff})$$

dove:

c : ricoprimento delle armature;

k_1 : coefficiente di aderenza delle barre. Assume valore 1.6 per barre lisce e 0.8 per barre ad aderenza migliorata;

k_2 : coefficiente che tiene conto della forma del diagramma delle deformazioni. Assume valore 0.5 per flessione e 1 per trazione pura;

k_3 : coefficiente pari a 3.4;

k_4 : coefficiente pari a 0.425;

ϕ : diametro delle barre in mm. Se si utilizzano più diametri si utilizza il diametro medio.

La fessurazione causata dalle azioni tangenziali si considera contenuta in limiti accettabili se si adotta un passo delle staffe. Tale verifica non è necessaria in elementi in cui non è richiesta l'armatura a taglio.

Verifiche a deformabilità

Per il calcolo della deformabilità di elementi inflessi si utilizza il metodo che pesa le curvature nelle due situazioni caratteristiche degli elementi in c.a. ("I" sezione integra; "II" sezione fessurata). A tale riguardo la curvatura in una generica sezione può essere valutata con la seguente relazione:

$$\theta = (1 - \zeta) \theta_I + \zeta \theta_{II}$$

dove ζ rappresenta l'effetto irrigidente del calcestruzzo tra due fessure consecutive (tension stiffening):

$$\zeta = 1 - c (M_{cr}/M)^2$$

dove:

c : pari a 1 per carichi permanenti;

M_{cr} : momento di prima fessurazione;

M : momento sollecitante.

Per calcolare la freccia di un elemento, si divide in "n" conci uguali e si calcola la curvatura di ogni concio riferita alla coordinata x_i . La freccia relativa alla sezione x_j è pari a:

$$\delta_j = \varphi_A x_j - \sum (x_j - x_i) \theta_i \Delta x$$

dove:

φ_A : rotazione dell'estremo iniziale dell'elemento;

l : lunghezza dell'elemento;

Δx : lunghezza del concio;

θ_i : curvatura relativa al concio

Taglio (Elementi senza armature trasversali resistenti a taglio)

Per gli elementi senza armature trasversali, in cui è richiesta la verifica a taglio, deve risultare:

$$V_{Rd} \geq V_{Ed}$$

$$V_{Rd} = \max \left\{ \left[0.18 k (100 \rho_l f_{ck})^{1/3} / \gamma_c + 0.15 \sigma_{cp} \right] b_w d ; (v_{min} + 0.15 \sigma_{cp}) b_w d \right\}$$

dove:

$$k = 1 + (200/d)^{1/2} \leq 2;$$

$$v_{min} = 0.035 k^{3/2} f_{ck}^{1/2};$$

f_{ck} : resistenza caratteristica a compressione del calcestruzzo;

d : altezza utile della sezione;

$\rho_l = A_{sl}/(b_w d)$: rapporto geometrico di armatura longitudinale tesa (≤ 0.02);

$\sigma_{cp} = N_{Ed}/A_c$: tensione media di compressione nella sezione ($\leq 0.2 f_{cd}$);

b_w : larghezza minima della sezione lungo l'altezza efficace.

In corrispondenza degli appoggi, le armature longitudinali sono state progettate per assorbire uno sforzo pari al taglio gravante sull'appoggio stesso.

3 Dati Struttura

3.1 Elenco e caratteristiche dei materiali

Nell'ambito del progetto si è fatto uso dei seguenti materiali divisi per categoria di appartenenza:

3.1.1 Calcestruzzo

Nome	: Nome del materiale;
Classe	: Classe del calcestruzzo in base alla classificazione da normativa (fck/Rck);
fck	: Resistenza caratteristica cilindrica a compressione;
Rck	: Resistenza caratteristica cubica a compressione;
v	: Modulo di Poisson;
ps	: Peso per unità di volume;
αT	: Coefficiente di dilatazione termica;
Ec	: Modulo elastico del materiale;
FC	: Fattore di confidenza (solo per costruzioni esistenti);
$\gamma_{m,c}$: Coefficiente parziale per le resistenze;
Ect/Ec	: Rapporto tra i moduli elastici a trazione e compressione;
fcm	: Resistenza media riscontrata (solo per costruzioni esistenti);
fcd SLU	: Resistenza di calcolo a compressione per gli SLU;
fctd SLU	: Resistenza di calcolo a trazione per gli SLU;
fcd SLD	: Resistenza di calcolo a compressione per gli SLD;
fctd SLD	: Resistenza di calcolo a trazione per gli SLD;
fctk,0.05	: Resistenza caratteristica a trazione;
fctm	: Resistenza media a trazione;
ϵ_{c2}	: Deformazione al raggiungimento della massima tensione di compressione;
ϵ_{cu2}	: Deformazione ultima di compressione del calcestruzzo.

Nome	Class e	v	ps kN/m ³	αT 1/°C	Ec N/mm ²	FC	$\gamma_{m,c}$	Ect/Ec	fcm N/mm ²	Fcd SLU N/mm ²	fctd SLU N/mm ²	fcd SLD N/mm ²	fctd SLD N/mm ²	fctk,0.05 N/mm ²	fctm N/mm ²	ϵ_{c2} %	ϵ_{cu2} %
cls esistente	Da prove	0.15	25.00	1E-05	29961.951	1.0	1.50	0.50	20.00	11.333	1.032	17.00	1.547	1.547	2.21	0.20	0.35

3.1.2 Acciaio per C.A.

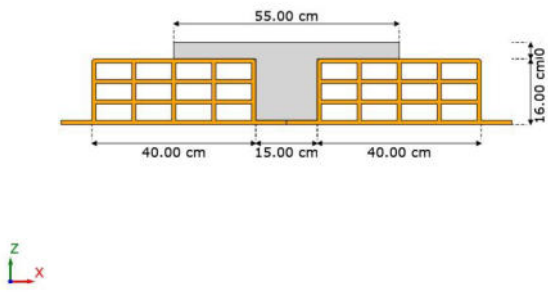
Nome	: Nome del materiale;
Tipo	: Tipo di acciaio in base alla classificazione da normativa;
γ_m	: Coefficiente parziale per le resistenze;
FC	: Fattore di confidenza (solo per costruzioni esistenti);
Es	: Modulo elastico del materiale;
f _{yk}	: Resistenza caratteristica di snervamento a trazione;
f _{tk}	: Resistenza caratteristica a rottura a trazione;
f _d SLU	: Resistenza di calcolo a trazione per gli SLU;
f _d SLD	: Resistenza di calcolo a trazione per gli SLD;
f _d SLE	: Resistenza di calcolo a trazione per gli SLE;
k	: Rapporto di sovrarresistenza (f _{tk} / f _{yk} > 1 per modello incrudente)
ϵ_{ud}	: Valore di calcolo della deformazione ultima a trazione.

Nome	Tipo	γ_m	FC	Es N/mm ²	f _{yk} N/mm ²	f _{tk} N/mm ²	f _d SLU N/mm ²	f _d SLD N/mm ²	f _d SLE N/mm ²	k	ϵ_{ud} %
Acciaio esistente	-	1.15	1.00	210000.00	450.00	540.00	391.304	450.00	391.304	1.20	1.00

3.2 Elenco e caratteristiche delle tipologie di solaio

Tipo solaio : Tipo di solaio;
 Mat. cls : Nome del materiale calcestruzzo per la tipologia di solaio*;
 Mat. acc. carp. : Nome del materiale acciaio da carpenteria per la tipologia di solaio*;
 Mat. legno travi : Nome del materiale legno delle travi per la tipologia di solaio*;
 Mat. legno tav. : Nome del materiale legno del tavolato per la tipologia di solaio*;
 Peso proprio : Peso proprio per unità di superficie della tipologia di solaio;
 Peso portato : Peso portato per unità di superficie della tipologia di solaio;
 Peso reagente : Peso reagente per unità di superficie della tipologia di solaio;

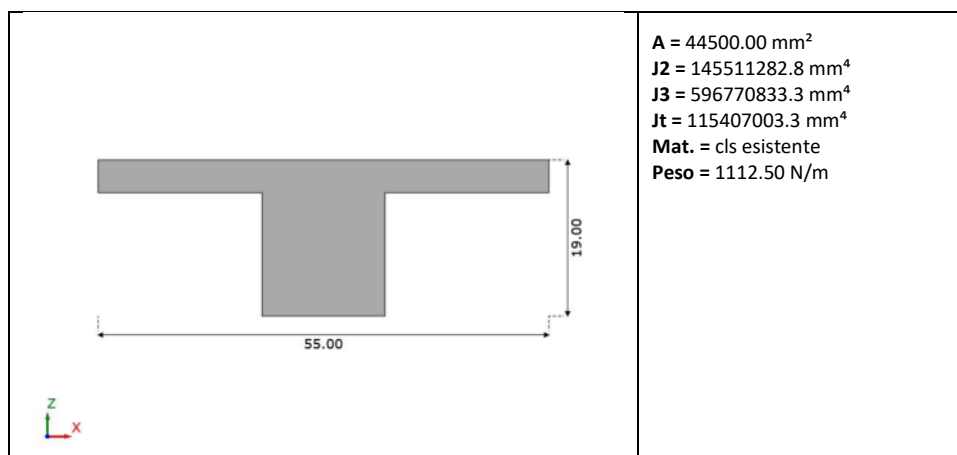
* vedi "Elenco e Caratteristiche dei materiali"

Tipologia N.1 (Solaio (SLC_SOL.LATCEM))	
	<p> Tipo solaio = Latero cemento Mat. cls = cls esistente Peso proprio = 2.8909 kN/m² Peso portato = 0.80 kN/m² Peso reagente = 2.0909 kN/m² </p>

3.3 Elenco e caratteristiche delle sezioni trasversali dei travetti

Prof. : Profilato/i associati alle sezioni in acciaio;
 A : Area della sezione;
 J₂ : Momento di inerzia baricentrico intorno all'asse 2 locale;
 J₃ : Momento di inerzia baricentrico intorno all'asse 3 locale;
 J_t : Momento di inerzia torsionale;
 Mat. : Nome dei materiali della sezione (vedi "Elenco e Caratteristiche dei materiali");
 Tr. tral. : Tipologia trave tralicciata associata (vedi "Elenco e Caratteristiche delle tipologie di trave tralicciata");
 Peso : Peso per unità di lunghezza della sezione;

Tipologia N.1 (Travetto Solaio (SLC_SOL.LATCEM))
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3.4 Geometria Struttura

3.4.1 Caratteristiche dei Nodi Solaio

I dati seguenti riportano tutte le caratteristiche relative ai nodi che definiscono la struttura ed in modo particolare:

Nodo : numerazione interna del nodo.
 Coordinate : coordinate del nodo secondo il sistema di riferimento globale cartesiano.

Nodo	Coordinate		
	x	y	z
	cm	cm	cm
1	0.00	0.00	0.00
2	0.00	55.00	0.00
3	505.00	0.00	0.00
4	505.00	55.00	0.00

3.4.2 Caratteristiche dei Nodi Travetto

I dati seguenti riportano tutte le caratteristiche relative ai nodi che definiscono la struttura ed in modo particolare:

Nodo I. : Etichetta del nodo di input;
 Nodo C. : Numerazione interna del nodo relativa al modello di calcolo;
 Impalcato : Impalcato di appartenenza del nodo;
 Tipo legame : Tipo di legame master-slave di cui il nodo corrente è master;
 Coordinate : Coordinate del nodo secondo il sistema di riferimento globale cartesiano;
 Tip. plinto : Tipologia plinto associata al nodo (vedi "Elenco e caratteristiche dei plinti");
 Tip. rinforzo : Tipologia rinforzo associata al nodo (vedi "Elenco e caratteristiche delle tipologie di rinforzo");
 Master : Nodo MASTER dal quale dipende il nodo corrente;
 Vincoli : Eventuali vincoli esterni del nodo in ognuna delle 6 direzioni:
 Sx : Direzione X rispetto al sistema di riferimento globale;
 Sy : Direzione Y rispetto al sistema di riferimento globale;
 Sz : Direzione Z rispetto al sistema di riferimento globale;
 Rx : Rotazione attorno all'asse X del sistema di riferimento globale;
 Ry : Rotazione attorno all'asse Y del sistema di riferimento globale;
 Rz : Rotazione attorno all'asse Z del sistema di riferimento globale;

I simboli dei vincoli assumono il seguente significato:

L : Non presenza di vincoli;

P : Valore infinito della rigidità;
 Valore : Valore della molla applicata al nodo;

Nodo I.	Nodo C.	Impalcato	Tipo legame	Coordinate			Tip. plinto	Tip. rinforzo	Master
				x	y	z			
				[cm]	[cm]	[cm]			
-	1	-	-	17.50	27.50	-7.22	-	-	-
-	2	-	-	487.50	27.50	-7.22	-	-	-

Nodo C.	Vincoli					
	Sx	Sy	Sz	Rx	Ry	Rz
	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
1	P	P	P	P	P	P
2	P	P	P	P	P	P

3.4.3 Caratteristiche dei Solai

La tabella seguente riporta tutte le caratteristiche relative ai solai della struttura:

Solaio : Etichetta del solaio di input;
 Nodi : Nodi ai quali appartiene il solaio (vedi "Nodo I." in "Caratteristiche dei Nodi");
 Tipologia : Tipologia solaio associata (vedi "Elenco e caratteristiche delle tipologie di solaio");
 Sez. travetto : Sezione trasversale associata al travetto;
 Tip. rinforzo : Tipologia rinforzo associato al solaio (vedi "Elenco e caratteristiche delle tipologie di rinforzo");
 Tipo : Tipo di solaio (solaio o balcone);

Solaio	Nodi	Tipologia	Sez. travetto	Tip. rinf.	Tipo
1	1 - 2 - 4 - 3	1	1	-	solaio

3.4.4 Caratteristiche delle Aste

La tabella seguente riporta tutte le caratteristiche relative alle aste della struttura ed in modo particolare la colonna:

Asta I. : Etichetta dell'asta di input;
 Asta C. : Numerazione interna dell'asta relativa al modello di calcolo;
 Ni : nodo iniziale dell'asta;
 Nf : nodo finale dell'asta;
 Tipo : funzione dell'asta;
 Solaio : solaio o balcone di appartenenza (vedi "Num." in "Caratteristiche dei Solai");
 Formulaz. : formulazione strutturale dell'asta;
 Risposta : risposta strutturale dell'asta;
 Sez. : sezione trasversale associata all'asta;
 Cl. serv. : Classe di servizio (solo per aste in legno);
 L : lunghezza teorica (nodo-nodo) dell'asta;
 Imp. : impalcato di appartenenza dell'asta;
 Kw1 : modulo di Winkler in direzione 1 locale;
 Kw2 : modulo di Winkler in direzione 2 locale;
 Kw3 : modulo di Winkler in direzione 3 locale;

Vincoli interni

S1 : grado di rigidità (0÷1) dello spostamento lungo la direzione 1 locale;
 S2 : grado di rigidità (0÷1) dello spostamento lungo la direzione 2 locale;
 S3 : grado di rigidità (0÷1) dello spostamento lungo la direzione 3 locale;
 R1 : grado di rigidità (0÷1) della rotazione intorno alla direzione 1 locale;
 R2 : grado di rigidità (0÷1) della rotazione intorno alla direzione 2 locale;
 R3 : grado di rigidità (0÷1) della rotazione intorno alla direzione 3 locale;

Asta I.	Asta C.	Ni	Nf	Imp.	Tipo	Solaio	Formulaz.	Risposta	Sez.	Cl. serv.	L [cm]
Travetto 1 (1-2)	1	1	2	-	Travetto	1	Bernoulli	lineare	1	-	470.00

				Vincoli Interni											
Asta	Kw1 [daN/cm³]	Kw2 [daN/cm³]	Kw3 [daN/cm³]	Estremi In.						Estremo Fin.					
				S1	S2	S3	R1	R2	R3	S1	S2	S3	R1	R2	R3
1	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00

3.5 Carichi sulla Struttura

3.5.1 Tipologie carichi applicati

3.5.1.1 Carichi predefiniti Solai

Nel presente paragrafo sono riportate per tipologia i carichi tipici applicati ai solai. I valori riportati verranno utilizzati per calcolare i carichi effettivi applicati al modello sugli elementi sui quali scaricano i solai.

Tipologia : Nome della tipologia di carico;
 Azione : Azione di carico utilizzata per assegnare il carico (vedi "Azione" in "Azioni di carico elementari");
 Q : Valore del carico di superficie applicato al solaio;

Tipologia	Sovraccarico permanente		Incidenza tramezzi		Carico d'esercizio	
	Azione	Q [kN/m²]	Azione	Q [kN/m²]	Azione	Q [kN/m²]
Carico predefinito solaio	2	0.00	G2	1.20	Q ese	5.00

Solaio : Solaio di input (vedi "Solaio" in "Caratteristiche dei Solai");
 Imp. : Impalcato al quale appartiene la piastra;
 Nodi : Nodi ai quali appartiene la piastra;
 Tipologia : Nome della tipologia di carico;

Solaio	Imp.	Nodi	Tipologia
Solaio 1 (1-2-4-3)	-	1 - 2 - 4 - 3	Carico predefinito solaio

3.5.2 Carichi sugli elementi

3.5.2.1 Carichi Globali distribuiti sulle Aste

I carichi riportati sono stati calcolati considerando anche tutti i carichi applicati sugli elementi e derivanti da solai, balconi, pannelli, tamponature.

Asta : Numero dell'asta (vedi "Asta C." in "Caratteristiche delle Aste");
 Imp. : Impalcato al quale appartiene l'asta;
 Nodi : Nodi ai quali appartiene l'asta (vedi "Nodo C." in "Caratteristiche dei Nodi");
 Azione : Azione di carico (vedi "Azione" in "Azioni di carico elementari");
 DGlob : Direzione dei carichi secondo il sistema di riferimento globale dell'asta;
 in : Valore del carico distribuito relativo al nodo iniziale come da paragrafo "Caratteristiche delle Aste";
 fin : Valore del carico distribuito relativo al nodo finale come da paragrafo "Caratteristiche delle Aste";

Asta	Imp.	Nodi	Azione	DGlob X [kN/m]	DGlob Y [kN/m]	DGlob Z [kN/m]	DGlob RX [kNm/m]	DGlob RY [kNm/m]	DGlob RZ [kNm/m]
------	------	------	--------	-------------------	-------------------	-------------------	---------------------	---------------------	---------------------

				in.	fin.	in.	fin.	in.	fin.	in.	fin.	in.	fin.	in.	fin.
1	-	1 - 2	1	0.00	0.00	0.00	0.00	-1.59	-1.59	0.00	0.00	0.00	0.00	0.00	0.00
1	-	1 - 2	2	0.00	0.00	0.00	0.00	-0.66	-0.66	0.00	0.00	0.00	0.00	0.00	0.00
1	-	1 - 2	3	0.00	0.00	0.00	0.00	-2.75	-2.75	0.00	0.00	0.00	0.00	0.00	0.00

3.6 Armature degli elementi strutturali

Le verifiche effettuate sulla struttura sono state eseguite considerando le configurazioni di armatura descritte nei paragrafi seguenti.

3.6.1 Armature dei Travetti

I dati seguenti riportano la configurazione delle armature relative ai travetti della struttura:

Travetto	:	Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste");
Asta	:	Numerazione interna dell'asta (vedi "Asta C." in "Caratteristiche delle Aste");
Imp.	:	Impalcato di appartenenza dell'asta;
Nodi	:	Nodi ai quali appartiene l'asta;
Tipo Sez.	:	Tipologia della sezione dell'asta;
Cop.	:	Copriferro delle armature;
ID Sez.	:	Indice progressivo per la definizione delle armature della sezione;
Mat.	:	Nome del materiale delle armature (vedi "Elenco e Caratteristiche dei materiali");
Arm. Long.	:	Armature longitudinali;
(S)	:	Simbologia per l'armatura posta nel lembo estremo superiore al baricentro;
(I)	:	Simbologia per l'armatura posta nel lembo estremo inferiore al baricentro;
Arm. Ripart.	:	Armature di ripartizione;
Tipo	:	Tipo di armatura di ripartizione (Armature trasversali o Rete elettrosaldata).
Φ	:	Diametro armature trasversali/rete elettrosaldata;
Passo	:	Passo armature trasversali/rete elettrosaldata;

Travetto	Asta	Imp.	Nodi	Tipo Sez.	Cop. [cm]	ID Sez.	Mat.	Arm. Ripart.		
								Tipo	Φ [mm]	Passo [cm]
Travetto 1 (1-2)	1	-	1-2	1	1.50	1	Acciaio esistente	Armature trasversali	8	25
Travetto 1 (1-2)	1	-	1-2	1	1.50	2	Acciaio esistente	Armature trasversali	8	25
Travetto 1 (1-2)	1	-	1-2	1	1.50	3	Acciaio esistente	Armature trasversali	8	25
Travetto 1 (1-2)	1	-	1-2	1	1.50	4	Acciaio esistente	Armature trasversali	8	25
Travetto 1 (1-2)	1	-	1-2	1	1.50	5	Acciaio esistente	Armature trasversali	8	25
Travetto 1 (1-2)	1	-	1-2	1	1.50	6	Acciaio esistente	Armature trasversali	8	25
Travetto 1 (1-2)	1	-	1-2	1	1.50	7	Acciaio esistente	Armature trasversali	8	25

4 Risultati

4.1 Risultati analisi

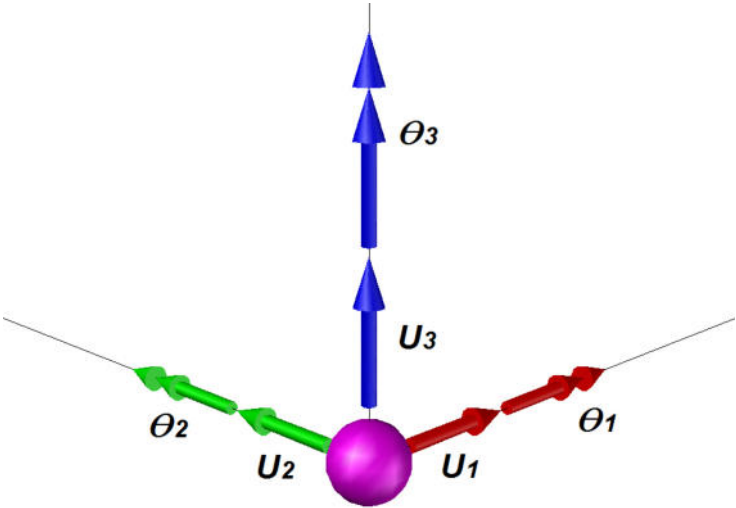
Di seguito si riportano i risultati dell'analisi ritenuti più significativi ai fini delle verifiche di sicurezza. Si tratta di output in termini di:

- Cinematismi nodali;
- Reazioni vincolari;
- Sollecitazioni sugli elementi;
- Domanda di deformazione sugli elementi;

4.1.1 Stato limite ultimo (SLU) - Struttura

4.1.1.1 Cinematismi nodali

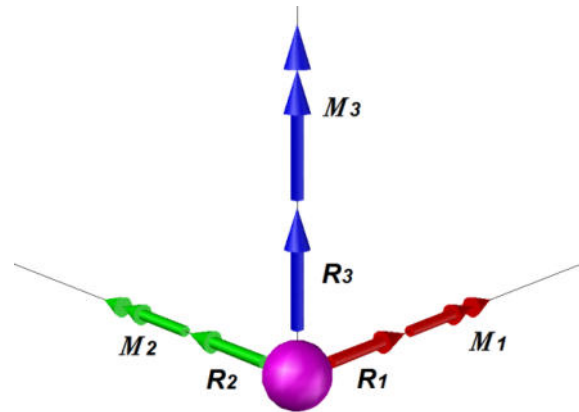
Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	0.00	0.00	0.00	0.00	0.00	0.00
1	minimi	0.00	0.00	0.00	0.00	0.00	0.00
2	massimi	0.00	0.00	0.00	0.00	0.00	0.00
2	minimi	0.00	0.00	0.00	0.00	0.00	0.00

4.1.1.2 Reazioni vincolari

Di seguito vengono riportati le componenti delle reazioni vincolari dei nodi della struttura nel sistema di riferimento locale ai nodi.



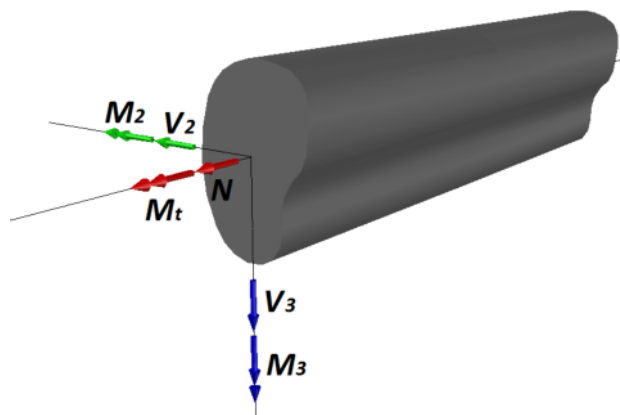
Nodo I.	ID Nodo	Involuppo	R1 kN	R2 kN	R3 kN	M1 kNm	M2 kNm	M3 kNm
-	1	massimi	0.00	0.00	16.878	0.00	0.00	0.00
-	1	minimi	0.00	0.00	13.97	0.00	0.00	0.00
-	2	massimi	0.00	0.00	16.878	0.00	0.00	0.00
-	2	minimi	0.00	0.00	13.97	0.00	0.00	0.00

4.1.1.3 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

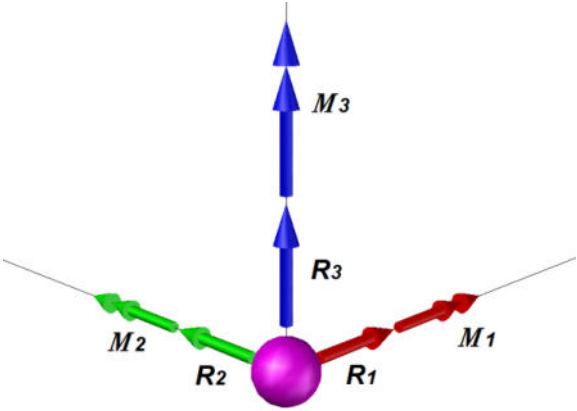
- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N:** sforzo normale;
- **V₂:** sforzo di taglio in direzione 2;
- **V₃:** sforzo di taglio in direzione 3;
- **M_t:** momento torcente;
- **M₂:** momento flettente nel piano 1-2;
- **M₃:** momento flettente nel piano 1-3.



Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
-	1	massimi	0.00	0.00	0.00	16.8777	0.00	0.00	0.00
-	1	massimi	235.00	0.00	0.00	0.00	0.00	19.8313	0.00
-	1	massimi	470.00	0.00	0.00	-13.96957	0.00	0.00	0.00
-	1	minimi	0.00	0.00	0.00	13.96957	0.00	0.00	0.00
-	1	minimi	235.00	0.00	0.00	0.00	0.00	16.41425	0.00
-	1	minimi	470.00	0.00	0.00	-16.8777	0.00	0.00	0.00

4.1.4.2 Reazioni vincolari

Di seguito vengono riportati le componenti delle reazioni vincolari dei nodi della struttura nel sistema di riferimento locale ai nodi.



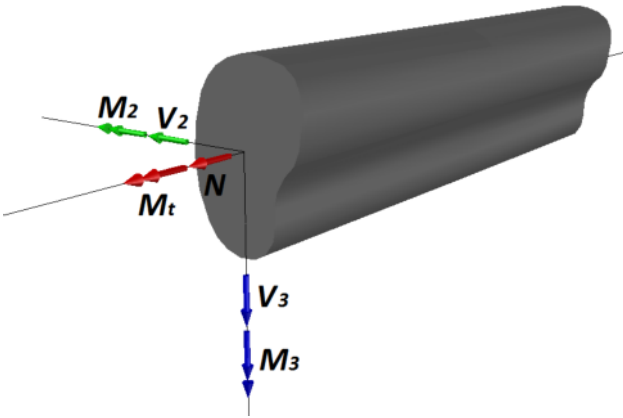
Nodo I.	ID Nodo	Involuppo	R1 kN	R2 kN	R3 kN	M1 kNm	M2 kNm	M3 kNm
-	1	massimi	0.00	0.00	11.75	0.00	0.00	0.00
-	1	minimi	0.00	0.00	9.811	0.00	0.00	0.00
-	2	massimi	0.00	0.00	11.75	0.00	0.00	0.00
-	2	minimi	0.00	0.00	9.811	0.00	0.00	0.00

4.1.4.3 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- x : ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- N : sforzo normale;
- V_2 : sforzo di taglio in direzione 2;
- V_3 : sforzo di taglio in direzione 3;
- M_t : momento torcente;
- M_2 : momento flettente nel piano 1-2;
- M_3 : momento flettente nel piano 1-3.

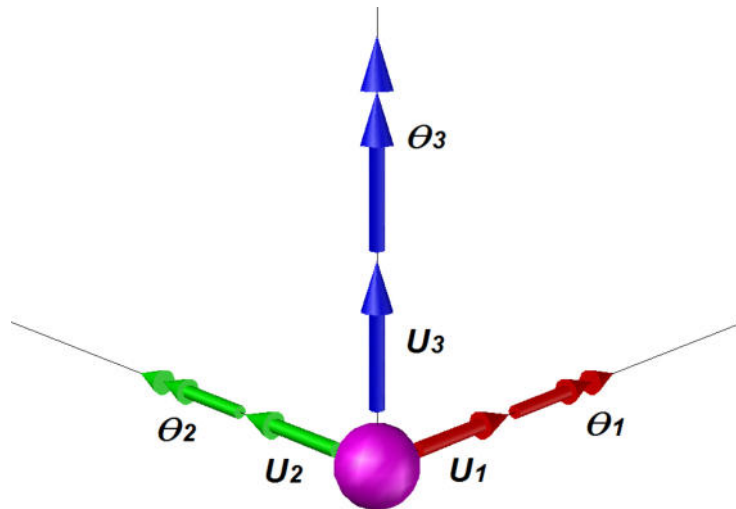


Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
-	1	massimi	0.00	0.00	0.00	11.75	0.00	0.00	0.00
-	1	massimi	235.00	0.00	0.00	0.00	0.00	13.80625	0.00
-	1	massimi	470.00	0.00	0.00	-9.81125	0.00	0.00	0.00
-	1	minimi	0.00	0.00	0.00	9.81125	0.00	0.00	0.00
-	1	minimi	235.00	0.00	0.00	0.00	0.00	11.52822	0.00
-	1	minimi	470.00	0.00	0.00	-11.75	0.00	0.00	0.00

4.1.5 Stato limite esercizio frequenti (SLE Frequenti)

4.1.5.1 Cinematismi nodali

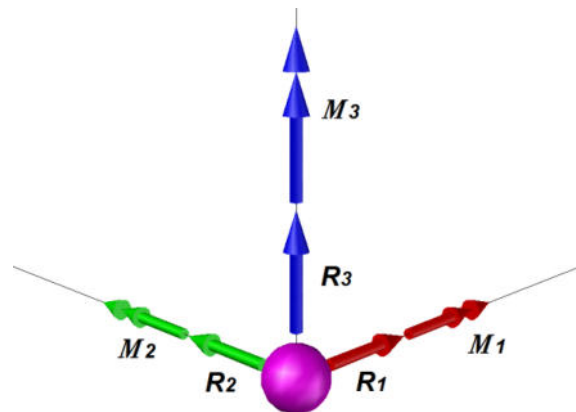
Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Involuppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	0.00	0.00	0.00	0.00	0.00	0.00
1	minimi	0.00	0.00	0.00	0.00	0.00	0.00
2	massimi	0.00	0.00	0.00	0.00	0.00	0.00
2	minimi	0.00	0.00	0.00	0.00	0.00	0.00

4.1.5.2 Reazioni vincolari

Di seguito vengono riportati le componenti delle reazioni vincolari dei nodi della struttura nel sistema di riferimento locale ai nodi.



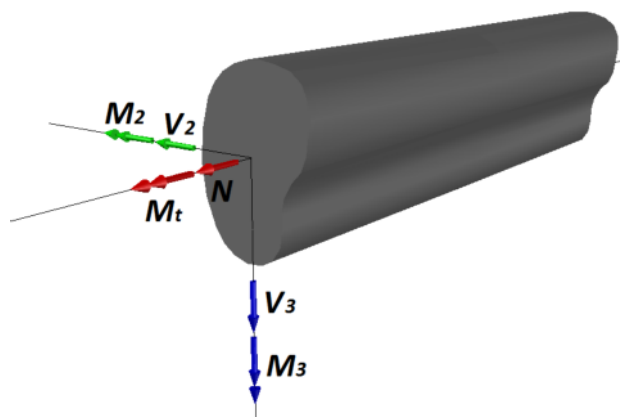
Nodo I.	ID Nodo	Involuppo	R1 kN	R2 kN	R3 kN	M1 kNm	M2 kNm	M3 kNm
-	1	massimi	0.00	0.00	9.811	0.00	0.00	0.00
-	1	minimi	0.00	0.00	9.165	0.00	0.00	0.00
-	2	massimi	0.00	0.00	9.811	0.00	0.00	0.00
-	2	minimi	0.00	0.00	9.165	0.00	0.00	0.00

4.1.5.3 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x :** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;
- **N :** sforzo normale;
- **V_2 :** sforzo di taglio in direzione 2;
- **V_3 :** sforzo di taglio in direzione 3;
- **M_t :** momento torcente;
- **M_2 :** momento flettente nel piano 1-2;
- **M_3 :** momento flettente nel piano 1-3.

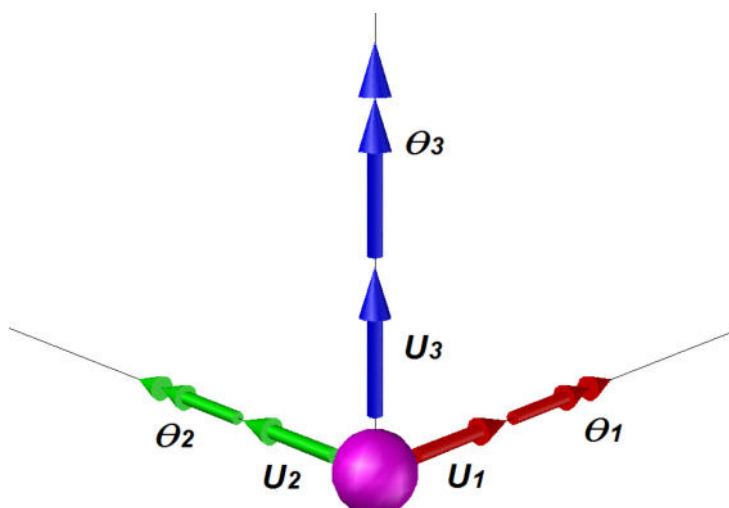


Asta I.	Asta C.	Involuppo	x [m] cm	N kN	V_2 kN	V_3 kN	M_t kNm	M_2 kNm	M_3 kNm
-	1	massimi	0.00	0.00	0.00	9.81125	0.00	0.00	0.00
-	1	massimi	235.00	0.00	0.00	0.00	0.00	11.52822	0.00
-	1	massimi	470.00	0.00	0.00	-9.165	0.00	0.00	0.00
-	1	minimi	0.00	0.00	0.00	9.165	0.00	0.00	0.00
-	1	minimi	235.00	0.00	0.00	0.00	0.00	10.76887	0.00
-	1	minimi	470.00	0.00	0.00	-9.81125	0.00	0.00	0.00

4.1.6 Stato limite esercizio quasi permanenti (SLE Quasi Permanenti)

4.1.6.1 Cinematismi nodali

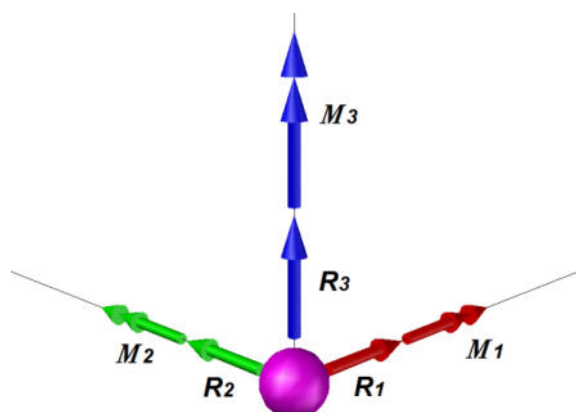
Di seguito vengono riportati le componenti degli spostamenti e delle rotazioni dei nodi della struttura nel sistema di riferimento locale ai nodi.



ID Nodo	Inviluppo	U1 mm	U2 mm	U3 mm	θ_1 rad	θ_2 rad	θ_3 rad
1	massimi	0.00	0.00	0.00	0.00	0.00	0.00
1	minimi	0.00	0.00	0.00	0.00	0.00	0.00
2	massimi	0.00	0.00	0.00	0.00	0.00	0.00
2	minimi	0.00	0.00	0.00	0.00	0.00	0.00

4.1.6.2 Reazioni vincolari

Di seguito vengono riportati le componenti delle reazioni vincolari dei nodi della struttura nel sistema di riferimento locale ai nodi.



Nodo I.	ID Nodo	Inviluppo	R1 kN	R2 kN	R3 kN	M1 kNm	M2 kNm	M3 kNm
-	1	massimi	0.00	0.00	9.165	0.00	0.00	0.00
-	1	minimi	0.00	0.00	9.165	0.00	0.00	0.00
-	2	massimi	0.00	0.00	9.165	0.00	0.00	0.00
-	2	minimi	0.00	0.00	9.165	0.00	0.00	0.00

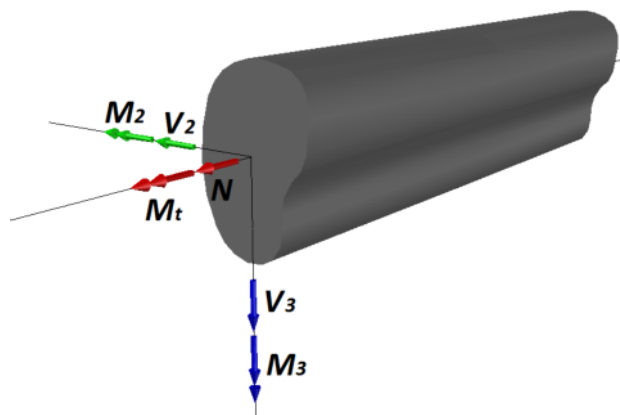
4.1.6.3 Sollecitazioni elementi Asta

Di seguito vengono riportati gli sforzi generalizzati per gli elementi asta (per gli elementi beam sono indicate la sezione iniziale, centrale e terminale dell'elemento). Tali sforzi si riferiscono al sistema di riferimento locale dell'elemento stesso.

Il significato dei simboli è il seguente:

- **Asta I.:** Etichetta dell'asta di input, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **Asta C.:** Numerazione interna dell'asta relativa al modello di calcolo, si veda 'Asta C.' in 'Caratteristiche delle Aste';
- **x:** ascissa della sezione rispetto alla quale si riferiscono le sollecitazioni;

- N : sforzo normale;
- V_2 : sforzo di taglio in direzione 2;
- V_3 : sforzo di taglio in direzione 3;
- M_t : momento torcente;
- M_2 : momento flettente nel piano 1-2;
- M_3 : momento flettente nel piano 1-3.



Asta I.	Asta C.	Inviluppo	x [m] cm	N kN	V ₂ kN	V ₃ kN	M _t kNm	M ₂ kNm	M ₃ kNm
-	1	massimi	0.00	0.00	0.00	9.165	0.00	0.00	0.00
-	1	massimi	235.00	0.00	0.00	0.00	0.00	10.76887	0.00
-	1	massimi	470.00	0.00	0.00	-9.165	0.00	0.00	0.00
-	1	minimi	0.00	0.00	0.00	9.165	0.00	0.00	0.00
-	1	minimi	235.00	0.00	0.00	0.00	0.00	10.76887	0.00
-	1	minimi	470.00	0.00	0.00	-9.165	0.00	0.00	0.00

5 Risultati delle Verifiche

5.1 Riassunto delle verifiche

Calcestruzzo Armato

Per gli elementi in calcestruzzo armato sono state effettuate le seguenti verifiche:

Travetti

Flessione composta (SLU)

Flessione composta (SLV)

Taglio (SLU)

Taglio (SLV)

Punzonamento (Nessuno, SLE Car., SLE Frequenti, SLE Quasi Permanenti)

Deformabilità (SLE Car., SLE Frequenti, SLE Quasi Permanenti)

Stato tensionale (SLE Car., SLE Frequenti, SLE Quasi Permanenti)

Fessurazione (SLE Car., SLE Frequenti, SLE Quasi Permanenti)

RIASSUNTO RISULTATI VERIFICHE:

Elemento : Tipo di elemento;

Tipo verifica : Verifica analizzata;

sMin : Coefficiente di sicurezza minimo;

Elem. sMin : Elemento a cui corrisponde il coefficiente di sicurezza minimo;

sMax : Coefficiente di sicurezza max;

Elem. sMax : Elemento a cui corrisponde il coefficiente di sicurezza max;

Elemento	Tipo verifica	sMin	Elem. sMin	sMax	Elem. sMax
Travetti	Flessione composta SLU	1.28	Travetto 1 (1-2)	1.28	Travetto 1 (1-2)
Travetti	Flessione composta SLV	1.85	Travetto 1 (1-2)	1.85	Travetto 1 (1-2)
Travetti	Taglio SLU	2.00	Travetto 1 (1-2)	2.00	Travetto 1 (1-2)
Travetti	Taglio SLV	3.69	Travetto 1 (1-2)	3.69	Travetto 1 (1-2)
Travetti	Punzonamento SLE	100.00	Travetto 1 (1-2)	100.00	Travetto 1 (1-2)
Travetti	Deformabilità SLE	1.11	Travetto 1 (1-2)	1.11	Travetto 1 (1-2)
Travetti	Stato tensionale SLE	1.04	Travetto 1 (1-2)	1.04	Travetto 1 (1-2)
Travetti	Fessurazione SLE	2.50	Travetto 1 (1-2)	2.50	Travetto 1 (1-2)

5.2 Calcestruzzo armato

Nei seguenti paragrafi si riportano i risultati delle verifiche per gli elementi in calcestruzzo armato.

5.2.1 Travetti

Nei seguenti paragrafi si riportano i risultati delle verifiche dei travetti.

5.2.1.1 Flessione composta retta in direzione 2 SLU

Travetto : Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;
 MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;
 MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;
 MRd3 : Valore del momento resistente attorno all'asse 3 locale;
 MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Travetto	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	Ms3 [kNm]	Ms2 [kNm]	Nrd [kN]	Mrd3 [kNm]	Mrd2 [kNm]					
Travetto 1 (1-2)	117.50	615.75	SLU	CC1	0.00	14.87	0.00	0.00	18.98	0.00	0.21	1.00	2	1.28	V

5.2.1.2 Flessione composta retta in direzione 2 SLV

Travetto : Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste");

Pos. : Posizione misurata lungo l'asse dell'elemento;

As : Valore dell'area totale di armature longitudinali;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Azioni Sollecitanti

NSd : Sforzo normale sollecitante;

MSd3 : Valore del momento sollecitante attorno all'asse 3 locale;

MSd2 : Valore del momento sollecitante attorno all'asse 2 locale;

Azioni Resistenti

NRd : Sforzo normale resistente;

MRd3 : Valore del momento resistente attorno all'asse 3 locale;

MRd2 : Valore del momento resistente attorno all'asse 2 locale;

ecls : Deformazione massima del calcestruzzo compresso

eacc : Deformazione massima dell'armatura tesa

C : Campo di rottura

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

I momenti sollecitanti sono stati amplificati, in funzione della snellezza dell'elemento, mediante il metodo della curvatura nominale. In questa fase è stato considerato anche l'incremento del momento considerando i difetti di rettilineità mediante l'applicazione della forza assiale con un'eccentricità pari ad 1/300 dell'altezza dell'elemento. Si rimanda alla tabella del paragrafo "Stabilità" per ulteriori dettagli.

Travetto	Pos. [cm]	As [mm ²]	SL	CdC	Azioni Sollecitanti			Azioni Resistenti			ecls [%]	eacc [%]	C	S	Esito
					Nsd [kN]	Ms3 [kNm]	Ms2 [kNm]	Nrd [kN]	Mrd3 [kNm]	Mrd2 [kNm]					
Travetto 1 (1-2)	0.00	615.75	SLV	CC1	0.00	-13.22	0.00	0.00	-24.41	0.00	0.35	0.33	3	1.85	V

5.2.1.3 Taglio SLU

Travetto : Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste");

Tagli Sollecitanti

Vsd1-3 : Valore del Taglio 1-3 sollecitante di calcolo;

Tagli Resistenti

VRd1-3 : Valore del Taglio 1-3 resistente di calcolo;

S1-3 : Coefficiente di sicurezza relativo a Vsd1-3;

Esito : V = Verificato; NV = Non Verificato;

Travetto	Vsd1-3 [kN]	Vrd1-3 [kN]	S1-3	Esito
Travetto 1 (1-2)	16.878	33.834	2.00	V

5.2.1.4 Taglio SLV

Travetto : Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste");

Tagli Sollecitanti

Vsd1-3 : Valore del Taglio 1-3 sollecitante di calcolo;

Tagli Resistenti

VRd1-3 : Valore del Taglio 1-3 resistente di calcolo;

S1-3 : Coefficiente di sicurezza relativo a Vsd1-3;

Esito : V = Verificato; NV = Non Verificato;

Travetto	Vsd1-3 [kN]	Vrd1-3 [kN]	S1-3	Esito
Travetto 1 (1-2)	9.165	33.834	3.69	V

5.2.1.5 Punzonamento SLE

Travetto : Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste");

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

Vsd : Valore dell'azione di punzonamento di calcolo del solaio;

VRd : Valore resistente a taglio-punzonamento;

S : Coefficiente di sicurezza;

Esito : V = Verificato; NV = Non Verificato;

Travetto	SL	CdC	Vsd [kN]	VRd [kN]	S	Esito
Travetto 1 (1-2)	Nessuno		0.00	4.04	100.00	V

5.2.1.6 Deformabilità SLE

Travetto : Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste")

N. Sez. : Numero della sezione di verifica;

SL : Stato limite della combinazione più gravosa;

CdC : Combinazione di carico più gravosa;

F Max Pos : Valore massimo del rapporto freccia/lunghezza (positivo);

F Max Neg : Valore massimo del rapporto freccia/lunghezza (negativo);

F Lim : Valore limite del rapporto freccia/lunghezza;

S : Valore del coefficiente di sicurezza minimo della sezione;

Esito : V = Verificato; NV = Non Verificato;

Travetto	N. Sez.	SL	CdC	F max Pos	F max Neg	F Lim	S	Esito
Travetto 1 (1-2)	0	SLE Car.	CC1	0.00	-0.00359	0.004	1.11	V

5.2.1.7 Stato Tensionale SLE

Travetto	: Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste");
N. Sez.	: Posizione misurata lungo l'asse dell'elemento;
SL	: Stato limite della combinazione più gravosa;
CdC	: Combinazione di carico più gravosa;
Azioni Sollecitanti	
Nsd	: Sforzo normale sollecitante;
Msd3	: Valore del momento sollecitante attorno all'asse 3 locale;
Msd2	: Valore del momento sollecitante attorno all'asse 2 locale;
Tensioni massime	
σ MaxCls	: Tensione massima di compressione sul calcestruzzo;
σ MaxAcc	: Tensione massima di trazione sulle barre da armatura;
Tensioni limite	
σ LimCls	: Tensione limite di compressione del calcestruzzo;
σ LimAcc	: Tensione limite di trazione delle barre da armatura;
S	: Valore del coefficiente di sicurezza minimo della sezione;
Esito	: V = Verificato; NV = Non Verificato;

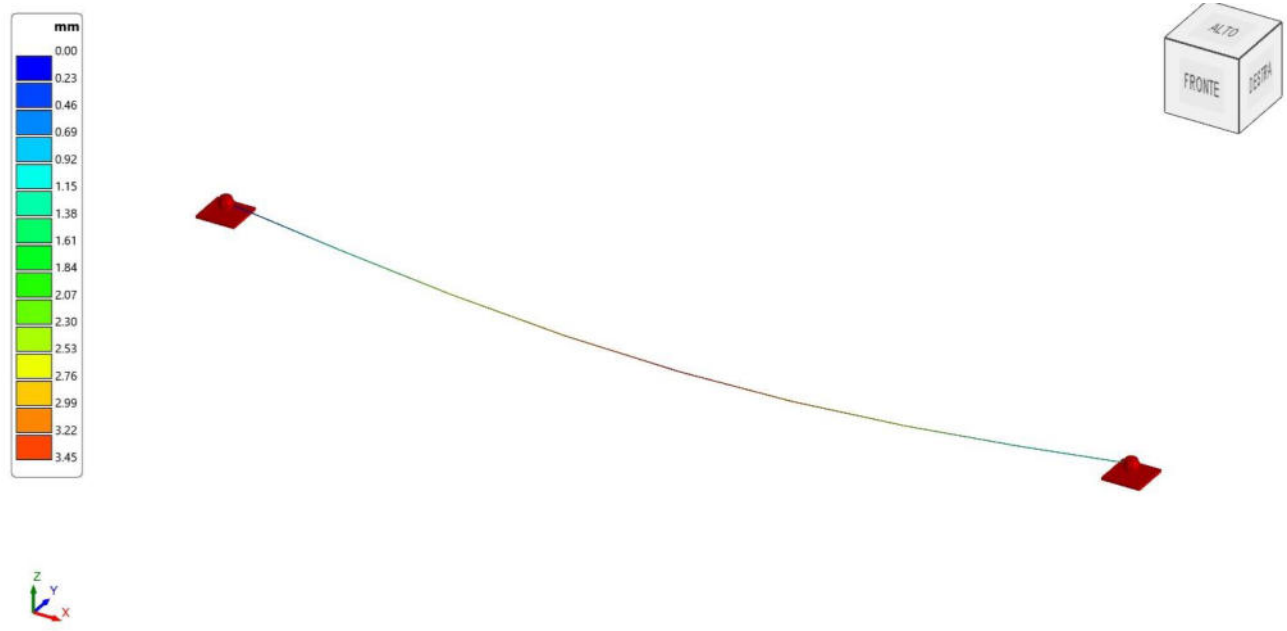
Travetto	N. Sez.	SL	CdC	Azioni Sollecitanti			Tensioni massime		Tensioni limite		S	Esito
				Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	σ MaxCls [N/mm ²]	σ MaxAcc [N/mm ²]	σ LimCls [N/mm ²]	σ LimAcc [N/mm ²]		
Travetto 1 (1-2)	1	SLE Frequenti	CC1	0.00	-9.20	0.00	8.627	-140.431	9.00	360.00	1.04	V

5.2.1.8 Fessurazione SLE

Travetto	: Travetto di input (vedi "Asta I." in "Caratteristiche delle Aste");
N. Sez.	: Posizione misurata lungo l'asse dell'elemento;
SL	: Stato limite della combinazione più gravosa;
CdC	: Combinazione di carico più gravosa;
Azioni Sollecitanti	
Nsd	: Sforzo normale sollecitante;
Msd3	: Valore del momento sollecitante attorno all'asse 3 locale;
Msd2	: Valore del momento sollecitante attorno all'asse 2 locale;
Fessurazione	
Wk Max	: Massima apertura delle fessure;
Wk Lim	: Valore limite dell'apertura delle fessure;
S	: Valore del coefficiente di sicurezza minimo della sezione;
Esito	: V = Verificato; NV = Non Verificato;

Travetto	N. Sez.	SL	CdC	Azioni Sollecitanti			Fessurazione		S	Esito
				Nsd [kN]	Msd3 [kNm]	Msd2 [kNm]	Wk max [cm]	Wk Lim [cm]		
Travetto 1 (1-2)	3	SLE Quasi Permanenti	CC1	0.00	8.08	0.00	0.012	0.03	2.50	V

6 Allegato A - Schemi Grafici di Calcolo



6. Verifica impianti

Gli impianti possono essere intesi come insieme di: impianto vero e proprio, dispositivi di alimentazione dell'impianto, collegamenti tra gli impianti e la struttura principale. Come indicato al capitolo 7.2.4. delle NTC2018, della progettazione antisismica degli impianti è responsabile il produttore, della progettazione antisismica degli elementi di alimentazione e collegamento è responsabile l'installatore, della progettazione antisismica degli orizzontamenti, delle tamponature e dei tramezzi a cui si ancorano gli impianti è responsabile l'installatore. Nel caso in esame, nell'analisi dei carichi gravanti sugli orizzontamenti è stato considerato anche il carico permanente non strutturale dovuto proprio alla presenza di questi.

Relativamente alla verifica degli impianti, la capacità dei diversi elementi funzionali costituenti l'impianto, compresi gli elementi strutturali che li sostengono e collegano, tra loro e alla struttura principale, deve essere maggiore della domanda sismica corrispondente a ciascuno degli stati limite da considerare.

Allo stesso capitolo delle Norme Tecniche per la costruzione è specificato che è compito del progettista della struttura individuare la domanda, mentre è compito del fornitore e/o installatore fornire impianti e sistemi di collegamento di capacità adeguata.

A tal fine di seguito si riportano tutti i dati relativi alla domanda sismica agente nel sito in esame.

Domanda sismica

La valutazione delle azioni sismiche sulle strutture viene condotta in relazione ad un periodo di riferimento c che si ricava moltiplicando la vita nominale V_N per il coefficiente d'uso C_U (§2.4.3 NTC 2018).

Nel caso specifico risulta:

$V_N = 50$ anni (Opere ordinarie, ponti, opere infrastrutturali e dighe di dimensioni contenute o di importanza normale)

$C_U = 1.5$ anni (Classe d'uso III §2.4.2 NTC 2018)

$V_R = 75$ anni

Gli stati limite nei confronti dell'azione sismica, in relazione alle prestazioni della costruzione nel suo complesso, si dividono in:

Stati limite di esercizio

Stato Limite di Operatività (**SLO**);

Stato Limite di Danno (**SLD**).

Stati limite ultimi

Stato Limite di salvaguardia della Vita (**SLV**);

Stato Limite di prevenzione del Collasso (**SLC**).

Per ciascuno degli stati limite considerati viene associata una probabilità di superamento nel periodo di riferimento P_{VR} (Tab. 3.2.I. NTC 2018).

Per ogni valore di P_{VR} viene calcolato il periodo di ritorno medio T_R di un evento avente quell'entità attraverso la seguente relazione:

$$T_R = -\frac{V_R}{\ln(1 - P_{VR})}$$

i valori così ottenuti vengono riportati nella seguente tabella:

Stato limite	$P_{VR}[\%]$	$T_R[\text{anni}]$
SLO	81	45
SLD	63	75
SLV	10	712
SLC	5	1462

Pericolosità sismica di base

L'elemento di conoscenza primario per la valutazione delle azioni sismiche in un determinato sito è rappresentato dalla "pericolosità sismica di base". Questa viene espressa, per ogni stato limite, in funzione della probabilità di superamento P_{VR} in termini di spettro di risposta in accelerazione per un suolo di categoria **C**.

I parametri che identificano la pericolosità sismica di base sono:

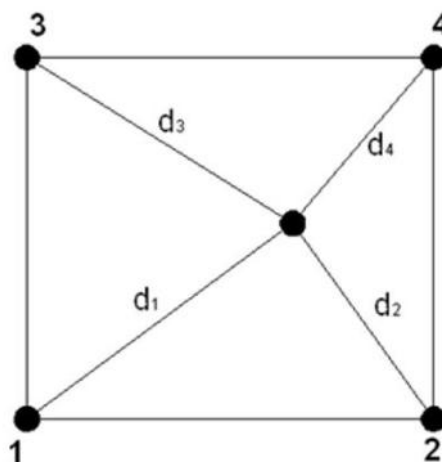
- a_g : accelerazione orizzontale massima al sito;
- F_0 : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;
- T_C^* : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale.

Tali parametri vengono forniti dalla norma (NTC 2018), per diversi periodi di ritorno T_R , su tutto il territorio nazionale in un numero di punti che definiscono un reticolo di riferimento. Pertanto, per ogni punto del territorio nazionale è possibile individuare quattro punti del reticolo in modo da definire una maglia. I parametri sismici di tale punto si ottengono da quelli della maglia attraverso la seguente relazione:

$$p = \frac{\sum_{i=1}^4 \frac{p_i}{d_i}}{\sum_{i=1}^4 \frac{1}{d_i}}$$

dove:

- p : generico parametro (a_g, F_0, T_C^*) da calcolare per il punto oggetto di studio;
- d_i : distanza tra il punto oggetto di studio e l' i -esimo punto della maglia;
- p_i : valore del generico parametro (a_g, F_0, T_C^*) nell' i -esimo punto della maglia.



Nel caso specifico si ha:

Coordinate del sito

Latitudine (ED50): 41°.8268
 Longitudine (ED50): 12°.9745

Identificativi e coordinate (Datum ED50) dei punti che includono il sito		
Numero punto	Latitudine [°]	Longitudine [°]
28741	41°.8337	12°.9534
28964	41°.7840	13°.0209
28963	41°.7837	12°.9538

28742	41°.8340	13°.0205
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	Parametri dello spettro di risposta orizzontale			
	SLV	SLC	SLD	SLO
Tempo di ritorno [anni]	712	1462	75	45
Accelerazione sismica [g]	0.178	0.218	0.081	0.066
Coefficiente Fo	2.486	2.505	2.472	2.464
Periodo T _c *[sec]	0.315	0.324	0.283	0.273

Una volta valutati i parametri che definiscono la pericolosità sismica di base è possibile calcolare le ordinate spettrali degli spettri di risposta in accelerazione mediante le seguenti relazioni:

$$0 \leq T < T_B \quad S_e(T) = a_g F_0 \left[\frac{T}{T_B} + \frac{1}{F_0} \left(1 - \frac{T}{T_B} \right) \right]$$

$$T_B \leq T < T_C \quad S_e(T) = a_g F_0$$

$$T_C \leq T < T_D \quad S_e(T) = a_g F_0 \left(\frac{T_C}{T} \right)$$

$$T_D \leq T \quad S_e(T) = a_g F_0 \left(\frac{T_C T_D}{T^2} \right)$$

Dove:

F_0 : fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale, ed ha valore minimo pari a 2.2;

T_C : è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro

$$T_C = T_C^*$$

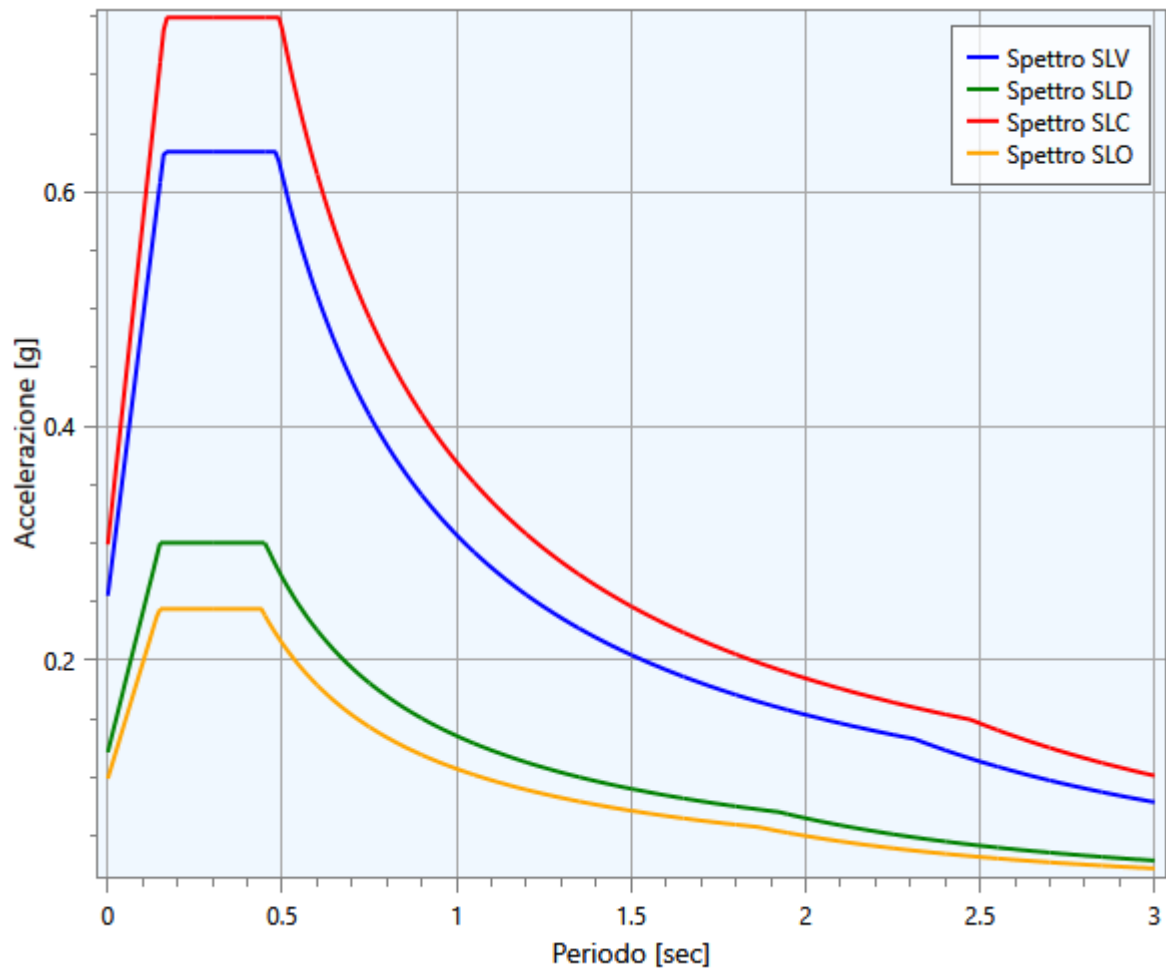
T_B : è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;

$$T_B = \frac{T_C}{3}$$

T_D : è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro, espresso in secondi mediante la relazione:

$$T_D = 4.0 \frac{a_g}{g} + 1.6$$

Le forme spettrali così valutate vengono riportate per ogni stato limite nella figura seguente.



	Periodi caratteristici dello spettro di risposta orizzontale			
	SLV	SLC	SLD	SLO
$T_R[sec]$	0.161	0.164	0.15	0.147
$T_C[sec]$	0.484	0.493	0.451	0.44
$T_D[sec]$	2.312	2.472	1.924	1.864
C_c	1.54	1.52	1.59	1.61

	Periodi caratteristici dello spettro di risposta verticale			
	SLV	SLC	SLD	SLO
$T_R[sec]$	0.05	0.05	0.05	0.05
$T_C[sec]$	0.15	0.15	0.15	0.15
$T_D[sec]$	1.00	1.00	1.00	1.00
C_c	1.54	1.52	1.59	1.61

Azione sismica di progetto

La definizione dell'azione sismica di progetto necessita di studi opportuni in merito agli effetti della risposta sismica locale. Tuttavia, per come specificato al §3.2.2 dell'NTC 2018, in assenza di tali analisi è possibile far riferimento all'approccio semplificato proposto dalla stessa normativa che si basa sull'individuazione di una categoria di sottosuolo. Valutata tale categoria da parte del progettista, in base ai valori della velocità equivalente $V_{S,30}$ di propagazione delle onde di taglio entro i primi 30 m di profondità, la norma fornisce dei parametri che modificano lo spettro di risposta per tenere conto degli effetti di sito. Tali parametri vengono riportati nella Tabella 3.2.V dello stesso NTC e per il caso oggetto di studio (Categoria **C**), per i diversi stati limite, risultano:

Stato limite	S_s	C_c
SLO	1.50	1.61
SLD	1.50	1.59

SLV	1.434	1.54
SLC	1.372	1.52

Inoltre, per tener conto delle condizioni topografiche e in assenza di specifiche analisi di risposta sismica locale, si utilizzano i valori del coefficiente topografico S_T riportati nella Tabella 3.2.VI, in funzione delle categorie topografiche definite in § 3.2.2 e dell'ubicazione dell'opera o dell'intervento. Per il caso in esame (Categoria **T1**) si ha:

$$S_T = 1.0$$

Attraverso tali parametri le forme spettrali vengono calcolate per come segue:

$$0 \leq T < T_B \quad S_e(T) = a_g S \eta F_0 \left[\frac{T}{T_B} + \frac{1}{\eta F_0} \left(1 - \frac{T}{T_B} \right) \right]$$

$$T_B \leq T < T_C \quad S_e(T) = a_g S \eta F_0$$

$$T_C \leq T < T_D \quad S_e(T) = a_g S \eta F_0 \left(\frac{T_C}{T} \right)$$

$$T_D \leq T \quad S_e(T) = a_g S \eta F_0 \left(\frac{T_C T_D}{T^2} \right)$$

dove:

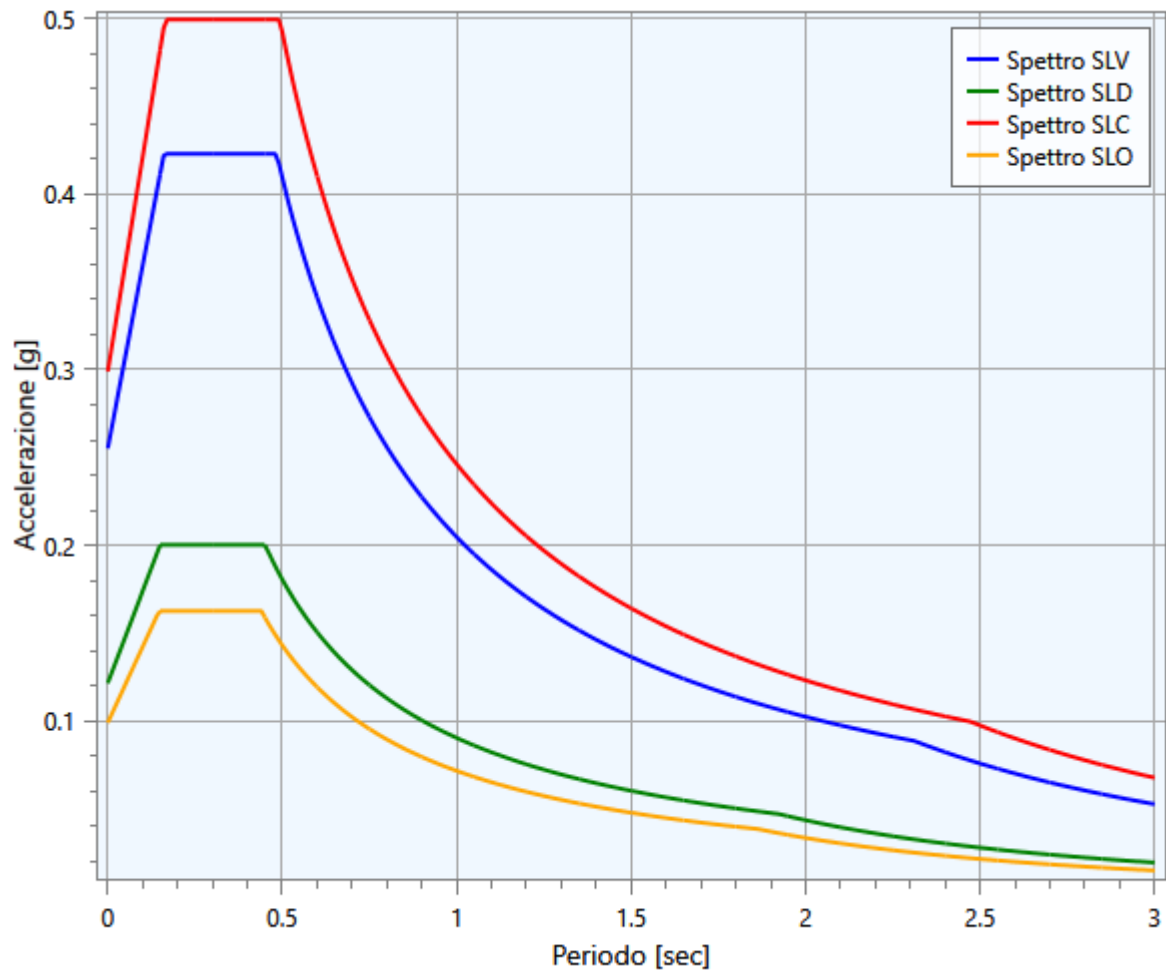
S : coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente:

$$S = S_S S_T$$

η : fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali ξ diversi dal 5%, mediante la relazione:

$$\xi = \sqrt{\frac{10}{5 + \xi}} \geq 0.55$$

dove ξ (espresso in percentuale) è valutato sulla base di materiali, tipologia strutturale e terreno di fondazione; Per il caso in esame, assunto uno smorzamento convenzionale $\xi = 5\%$, gli spettri di progetto della componente orizzontale del moto vengono riportati nel grafico seguente.



Qualora necessari, gli spettri di risposta che definiscono la componente verticale del moto sismico possono essere calcolati sostituendo nelle equazioni appena viste il coefficiente F_0 con F_V , calcolato mediante la seguente equazione:

$$F_V = 1.35 F_0 \left(\frac{a_g}{g} \right)^{0.5}$$

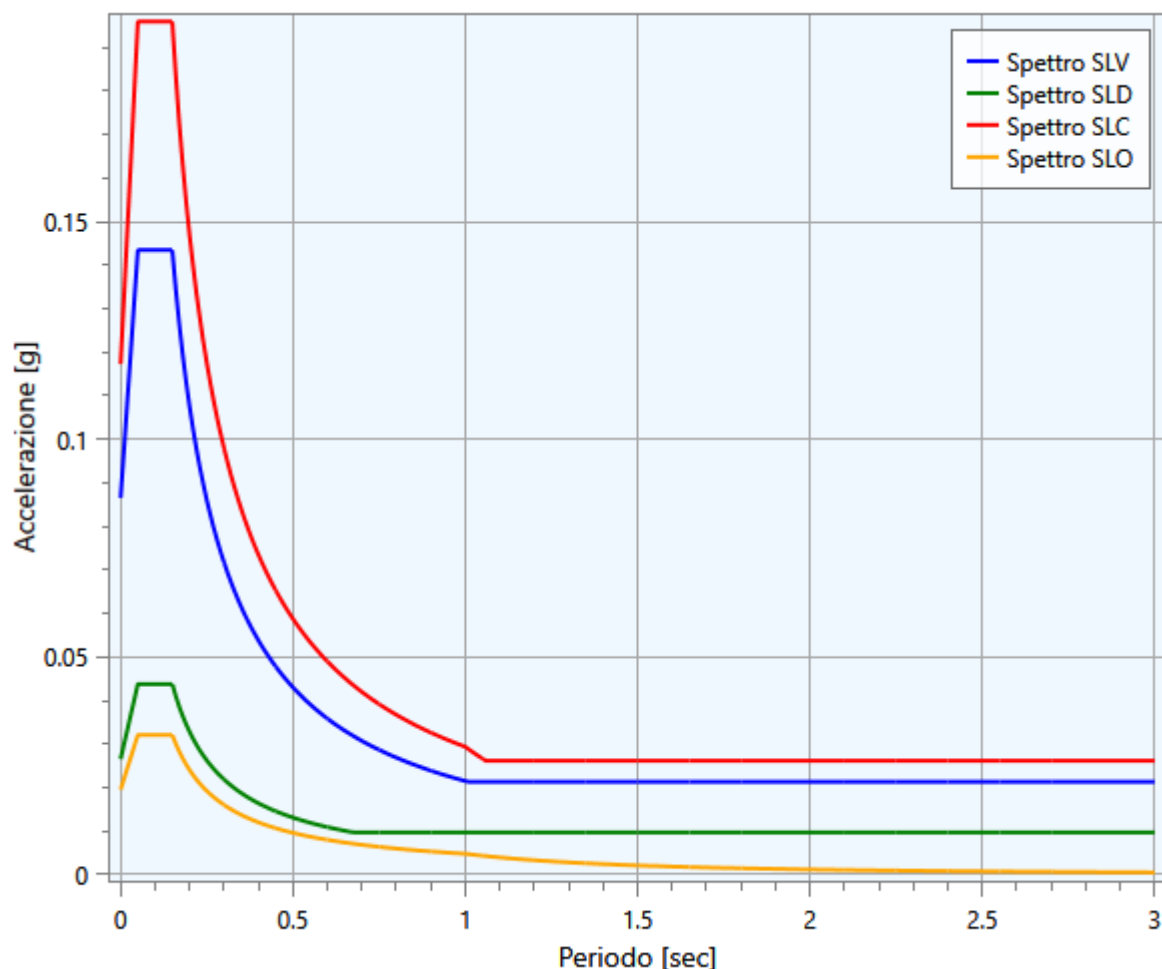
Ed utilizzando, in mancanza di analisi specifiche, per ogni categoria di sottosuolo i seguenti parametri:

$$S_S = 1.00; T_B = 0.05 \text{ sec}; T_C = 0.15 \text{ sec}; T_D = 1.00 \text{ sec}$$

Per il caso in esame, per ogni stato limite, i valori del coefficiente F_V risultano:

Stato limite	F_V
SLO	0.85
SLD	0.95
SLV	1.42
SLC	1.58

e di seguito vengono rappresentate le forme spettrali.



Con le analisi lineari mediante l'utilizzo dello spettro di progetto $S_d(T)$ per gli stati limite ultimi, viene effettuata la seguente sostituzione:

$$\eta = \frac{1}{q}$$

Il parametro q , chiamato fattore di comportamento, assume i seguenti valori:

Fattore di comportamento in direzione X (q_x)	1.50
Calcolato considerando i seguenti parametri	
Tipo Struttura	Calcestruzzo
Regolarità in elevazione	no
Regolarità in pianta	no
Kr	1.00
Tipologia Edificio	Strutture a telaio a più piani e più campate
au / a1	1.10
Tipologia Strutturale	Strutture a telaio, a pareti accoppiate, miste
Modalità di collasso	Strutture a telaio e miste equivalenti a telai
α_0	0.00
Kw	1.00

Fattore di comportamento in direzione Y (q_y)	1.50
Calcolato considerando i seguenti parametri	
Tipo Struttura	Calcestruzzo
Regolarità in elevazione	no
Regolarità in pianta	no
Kr	1.00
Tipologia Edificio	Strutture a telaio a più piani e più campate
au / a1	1.10

Tipologia Strutturale	Strutture a telaio, a pareti accoppiate, miste
Modalità di collasso	Strutture a telaio e miste equivalenti a telai
α_0	0.00
Kw	1.00

Fattore di comportamento in direzione Z (q_x)	1.50
---	------

Il progetto della struttura è stato effettuato considerando un comportamento non dissipativo.

7. Verifica degli elementi non strutturali 7.2.3

1. GENERALITÀ

Gli elementi costruttivi non strutturali sono *"quelli con rigidezza, resistenza e massa tali da influenzare in maniera significativa la risposta strutturale e quelli che, pur non influenzando la risposta strutturale, sono ugualmente significativi ai fini della sicurezza e/o dell'incolumità delle persone"* (cfr. § 7.2.3 D.M. 2018).

Secondo quanto indica la Circolare esplicativa del 21-01-2019 n. 7 al § C7.3.6.2, "la prestazione, consistente nell'evitare la possibile espulsione delle tamponature sotto l'azione della F_a , si può ritenere conseguita con l'inserimento di leggere reti da intonaco sui due lati della muratura, collegate tra loro ed alle strutture circostanti a distanza non superiore a 500 mm sia in direzione orizzontale sia in direzione verticale, ovvero con l'inserimento di elementi di armatura orizzontale nei letti di malta, a distanza non superiore a 500 mm".

Pertanto, se vengono utilizzati i suddetti accorgimenti tale verifica si può ritenere soddisfatta.

2. AZIONE SUGLI ELEMENTI NON STRUTTURALI

Gli effetti dell'azione sismica sugli elementi costruttivi senza funzione strutturale possono essere determinati applicando a tali elementi una forza orizzontale F_a definita come segue (relazione 7.2.1 - § 7.2.3 D.M. 2018):

$$F_a = (S_a \cdot W_a) / q_a \quad [1]$$

dove:

- F_a è la forza sismica orizzontale agente al centro di massa dell'elemento non strutturale nella direzione più sfavorevole;
- W_a è il peso dell'elemento;
- S_a è l'accelerazione massima, adimensionalizzata rispetto a quella di gravità, che l'elemento strutturale subisce durante il sisma e corrisponde allo stato limite in esame (v. § 3.2.1 NTC18);
- q_a è il fattore di comportamento dell'elemento.

In assenza di specifiche determinazioni, per q_a si possono assumere (allo SLV) i valori riportati nella successiva Tabella C7.2.I della Circolare del 21-01-2019 n. 7.

Tab.1: Valori di q_a per elementi non strutturali (Tabella C7.2.I - Circolare del 21-01-2019 n. 7)

Elementi non-strutturali	q_a
Parapetti o decorazioni aggettanti Insegne e pannelli pubblicitari Comignoli, antenne e serbatoi su supporti funzionanti come mensole senza controventi per più di metà della loro altezza	1,0
Pareti interne ed esterne Tramezzatura e facciate Comignoli, antenne e serbatoi su supporti funzionanti come mensole non controventate per meno di metà della loro altezza o connesse alla struttura in corrispondenza o al di sopra del loro centro di massa Elementi di ancoraggio per armadi e librerie permanenti direttamente poggiati sul pavimento Elementi di ancoraggio per controsoffitti e corpi illuminanti	2,0

Il D.M. 2018 (§ 7.8.1.5.2) consente di effettuare la verifica fuori piano di **pareti murarie** assumendo un fattore di comportamento $q_a = 2$ (allo SLV) ed un'accelerazione massima (S_a) data da:

$$S_a = a \cdot S \cdot [1,5 \cdot (1 + z/H) - 0,5]^3 \cdot a \cdot S \quad [2]$$

dove:

- a è il rapporto tra l'accelerazione massima del terreno a_g su sottosuolo tipo A da considerare nello stato limite in esame (v. § 3.2.1 delle NTC18) e l'accelerazione di gravità g ;
- $S = S_T \cdot S_s$ è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche secondo quanto riportato nel § 3.2.3.2.1 delle NTC18;
- z è la quota del baricentro dell'elemento non strutturale misurata a partire dal piano di fondazione (da assumersi sempre pari a 0 per strutture isolate);
- H è l'altezza della costruzione misurata a partire dal piano di fondazione.

3. VERIFICHE DI RESISTENZA E STABILITÀ DELLE TAMPONATURE

Le verifiche di resistenza e stabilità della tamponatura vengono fatte assumendo le seguenti ipotesi.

- **Ipotesi 1:** *Tamponatura doppiamente appoggiata in testa ed al piede con carico uniformemente distribuito*

Il momento sollecitante massimo, nella sezione di mezzzeria, è pari a:

$$M_{Ed,1} = F_a \cdot h^2 / (8 \cdot h) \quad [3]$$

Dove:

F_a vedi relazione [1];

h = altezza della parete di tamponamento.

Il momento resistente è pari a (relazione 7.8.2 - D.M. 2018):

$$M_{Rd,1} = (L \cdot s^2 \cdot \sigma_0 / 2) \cdot (1 - \sigma_0 / 0,85 \cdot f_d) \quad [4]$$

Dove:

L = lunghezza della parete di tamponamento;

s = spessore della parete di tamponamento;

$\sigma_0 = N_{Ed} / A$ = tensione normale media di compressione;

$N_{Ed} = W_a / 2$ = peso della parete di tamponamento sulla sezione di mezzzeria;

$A = (L \cdot s)$ = area della parete di tamponamento.

$f_d = f_k / g_M$ = resistenza di progetto a compressione;

f_k = resistenza caratteristica a compressione del materiale della parete di tamponamento;

g_M = coefficiente di sicurezza del materiale della parete di tamponamento.

La verifica è soddisfatta se:

$$CS_1 = M_{Rd,1} / M_{Ed,1} \geq 1.$$

- **Ipotesi 2** *Tamponatura doppiamente appoggiata in testa ed al piede con carico concentrato*

Il momento sollecitante massimo, nella sezione di mezzzeria, è pari a:

$$M_{Ed,2} = F_a \cdot h / 4 \quad [5]$$

Dove:

F_a vedi relazione [1];

h = altezza della parete di tamponamento;

W_a = peso della parete di tamponamento;

s = spessore della parete di tamponamento.

Il momento resistente è pari a (relazione 7.8.2 - D.M. 2018):

$$M_{Rd,2} = (L \cdot s^2 \cdot \sigma_0 / 2) \cdot (1 - \sigma_0 / 0,85 \cdot f_d) \quad [6]$$

Dove:

L = lunghezza della parete di tamponamento;

s = spessore della parete di tamponamento;

$\sigma_0 = N_{Ed} / A$ = tensione normale media di compressione;

$N_{Ed} = W_a / 2$ = peso della parete di tamponamento sulla sezione di mezzzeria;

$A = (L \cdot s)$ = area della parete di tamponamento.

f_d = resistenza di progetto del materiale della tamponatura;

La verifica è soddisfatta se:

$$CS_2 = M_{Rd,2} / M_{Ed,2} \geq 1.$$

• **Ipotesi** Verifica a taglio nella sezione di testa

3

Il taglio sollecitante massimo, nella sezione di verifica, è pari a:

$$V_{Ed} = F_a/2 \quad [7]$$

Dove:

F_a vedi relazione [1].

Il taglio resistente è pari a (relazione [7.8.3] - D.M. 2018):

$$V_{Rd} = l' \cdot s \cdot f_{vd} \quad [8]$$

Dove:

l' = lunghezza della parte compressa della sezione (assunta uguale alla lunghezza, L , della parete di tamponamento);

s = spessore della parete di tamponamento;

f_{vd} = resistenza di progetto a taglio della muratura [$f_{vd} = (f_{vk0} + 0,4 \sigma_0)/g_m$].

f_{vk0} = resistenza caratteristica a taglio senza compressione;

g_m = coefficiente di sicurezza;

$\sigma_0 = 0$ = tensione normale media di compressione in testa al pannello.

La verifica è soddisfatta se:

$$CS_3 = V_{Rd}/V_{Ed} \geq 1.$$

4. VERIFICA

Nel caso in esame si verificano i **tamponamenti esterni**, per i quali il fattore di struttura q_a è pari a 2.

Le tamponature oggetto di verifiche sono costituite da "blocchi forati".

I calcoli successivi fanno riferimento alle tamponature dell'ultimo livello dove le azioni dovute al sisma sono più gravose.

Le caratteristiche geometriche e meccaniche della tamponatura oggetto di verifica sono di seguito riportate:

$L =$	10,00 m = 10000 mm, lunghezza, in pianta, della parete di tamponamento.
$s =$	30 cm = 300 mm, spessore della sola parete di tamponamento.
$h =$	2,60 m = 2600 mm, altezza della tamponatura.
$A =$	300 mm · 10000 mm = 3000000 mm ² , area di base della parete di tamponamento.
$z =$	4,52 m = 4520 mm, quota del baricentro della tamponatura rispetto allo spiccatto della fondazione.
$H =$	10,25 m = 1025 mm, altezza dell'edificio rispetto allo spiccatto della fondazione.
$g_{Mur} =$	8000 N/m ³ = 8 · 10 ⁻⁶ N/mm ³ , peso per unità di volume del materiale della tamponatura.
$f_k =$	2,00 N/mm ² , resistenza caratteristica a compressione del materiale della tamponatura.
$f_{vk0} =$	0,10 N/mm ² , resistenza caratteristica a taglio senza compressione del materiale della tamponatura.
$g_m =$	2,00, fattore parziale per murature in campo sismico allo SLV (§ 7.8.1.1 D.M. 2018).
$f_{d,SLV} =$	$f_k/g_m = 1,00$ N/mm ² , resistenza di progetto a compressione del materiale della tamponatura allo SLV.
$f_{d,SLD} =$	$f_k = 2,00$ N/mm ² , resistenza di progetto a compressione del materiale della tamponatura allo SLD.
$f_{vd0,SLV} =$	$f_{vk0}/g_m = 0,05$ N/mm ² , resistenza di progetto a taglio senza compressione del materiale della tamponatura allo SLV.
$f_{vd0,SLD} =$	$f_{vk0} = 0,10$ N/mm ² , resistenza di progetto a taglio senza compressione del materiale della tamponatura allo SLD.
$W_a =$	$g_{Mur} \cdot s \cdot L \cdot h = 8\,000 \cdot 0,30 \cdot 10,00 \cdot 2,60 = 62\,400$ N, peso complessivo della parete di tamponamento, a cui occorrerebbe aggiungere eventuali altri pesi dovuti ad intonaco e/o isolanti e rivestimenti).
$s_0 =$	$(W_a/2)/A = (62400\,N/2)/3000000\,mm^2 = 0,0104$ N/mm ² , tensione normale di compressione sulla sezione di mezzeria.

Di seguito si riportano i dati sismici:

Tab. 2: Parametri di Pericolosità Sismica

	Periodi caratteristici dello spettro di risposta orizzontale			
	SLV	SLC	SLD	SLO
$T_B[sec]$	0.161	0.164	0.15	0.147
$T_C[sec]$	0.484	0.493	0.451	0.44
$T_D[sec]$	2.312	2.472	1.924	1.864

C_c	1.54	1.52	1.59	1.61
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	Periodi caratteristici dello spettro di risposta verticale			
	SLV	SLC	SLD	SLO
$T_B[sec]$	0.05	0.05	0.05	0.05
$T_C[sec]$	0.15	0.15	0.15	0.15
$T_D[sec]$	1.00	1.00	1.00	1.00
C_c	1.54	1.52	1.59	1.61

• Verifica allo SLV

Il calcolo dell'accelerazione $S_a = S_{a,SLV}$ è stato condotto facendo riferimento ai seguenti dati:

- $a = a_{SLV} = 0,161 a_g/g$, accelerazione di riferimento allo SLV su sottosuolo rigido;
- $S = S_{SLV} = S_T \cdot S_{S,SLV} = 1,00 \cdot 1,48 = 1,48$, prodotto fra la categoria stratigrafica e topografica;

Pertanto, il valore di $S_a = S_{a,SLV}$ vale:

$$S_a = a \cdot S \cdot [1,5 \cdot (1+z/H) - 0,5] = 0,161 a_g/g \cdot 1,48 \cdot [1,5 \cdot (1+4,52m/10,25m) - 0,5] = 0,3607 a_g/g (> a \cdot S = 0,262 a_g/g)$$

Di conseguenza, la forza sismica F_a orizzontale agente nel baricentro della tamponatura è pari a:

$$F_a = (S_a \cdot W_a)/q_a = 0,3607 \cdot 62400/2 = \mathbf{11253,84 \text{ N}}$$

con:

$$S_a = 0,3607 a_g/g$$

$$W_a [N] = 62400 \text{ N}$$

$$q_a = 2$$

Per le tre ipotesi, le **verifiche di resistenza e stabilità** della tamponatura forniscono:

Ipotesi 1	<p>Il momento sollecitante massimo, nella sezione di mezzeria, vale:</p> $M_{Ed} = F_a \cdot h^2 / (8 \cdot h) = 11253,84 \cdot 2,60/8 = \mathbf{1188,7 \text{ Nm.}}$ <p>Il momento resistente vale:</p> $M_{Rd} = (L \cdot s^2 \cdot S_0/2) \cdot (1 - S_0/0,85 \cdot f_{d,SLV}) = (10000 \cdot 300^2 \cdot 0,0104/2) \cdot (1 - 0,0104/0,85 \cdot 1) = 2222111 \text{ Nmm} = \mathbf{10339,92 \text{ Nm.}}$ <p>La verifica risulta soddisfatta in quanto:</p> $\mathbf{CS_1 = M_{Rd}/M_{Ed} = 10339,92/1188,7 = 8,7 \geq 1.}$
Ipotesi 2	<p>Il momento sollecitante massimo, nella sezione di mezzeria, vale:</p> $M_{Ed} = F_a \cdot h/4 = 11253,84 \cdot 2,60/4 = \mathbf{7315 \text{ Nm.}}$ <p>Il momento resistente, nella sezione di mezzeria, vale:</p> $M_{Rd} = (L \cdot s^2 \cdot S_0/2) \cdot (1 - S_0/0,85 \cdot f_{d,SLV}) = (10000 \cdot 300^2 \cdot 0,0104/2) \cdot (1 - 0,0104/0,85 \cdot 1) = 2222111 \text{ Nmm} = \mathbf{10339,92 \text{ Nm.}}$ <p>La verifica risulta soddisfatta in quanto:</p> $\mathbf{CS_2 = M_{Rd}/M_{Ed} = 10339,92/7315 = 1,41 \geq 1.}$
Ipotesi 3	<p>Il taglio sollecitante massimo, nella sezione di testa, vale:</p> $V_{Ed} = F_a/2 = 11253,84/2 = \mathbf{5626,92 \text{ N.}}$ <p>Il taglio resistente vale:</p> $V_{Rd} = l' \cdot s \cdot f_{vd} = 10000 \cdot 300 \cdot 0,05 = \mathbf{150000 \text{ N.}}$ <p>La verifica risulta soddisfatta in quanto:</p> $\mathbf{CS_3 = V_{Rd}/V_{Ed} = 150000/5626,92 = 26,66 \geq 1.}$

