Solução do Problema modszk1 - Solver HiGHS

Análise Computacional

17 de setembro de 2025

1 Informações do Problema

Informações do Problema:

• Nome: modszk1

• Número de Variáveis: 1620

• Número de Restrições: 687

• Inviabilidade Primal: 1.819e-12

• Inviabilidade Dual: 0.000e+00

• Valor Primal: 3.206e+02

• Valor Dual: 3.206e+02

• Gap: 3.672e-16

• Número de Iterações: 20

2 Variáveis Primais e Custos Reduzidos

Tabela 1: Variáveis primais e custos reduzidos do problema modszk1

Coordenada	x Valor x	Coordenada z	Valor z
1	6.717802	1	0.00000
2	0.000000	2	2.421680
3	0.000000	3	1.810940
4	0.000000	4	0.053614
5	1.290654	5	0.000000
6	0.000000	6	1.367240
7	1.477284	7	0.000000
8	0.000000	8	0.943520
9	0.000000	9	0.45224
10	0.000000	10	0.918170
11	0.000000	11	0.41088
12	0.000000	12	0.720758

Coordenada	x Valor x	Coordenada z	Valor z
13	0.000000	13	2.408260
14	3.832691	14	0.000000
15	0.000000	15	0.200181
16	0.000000	16	1.633619
17	0.000000	17	2.190830
18	0.000000	18	1.216470
19	0.000000	19	3.241020
20	5.781981	20	0.000000
21	0.000000	21	0.767140
22	0.701619	22	0.000000
23	0.000000	23	0.373489
24	0.000000	24	0.348011
25	0.000000	25	0.566124
26	0.000000	26	0.470916
27	0.000000	27	0.744750
28	0.000000	28	0.696470
29	41286.882198	$\frac{29}{29}$	0.000000
30	940.515176	30	0.000000
31	0.000000	31	54.670588
32	0.000000	32	51.644532
33	2626.671445	33	0.000000
34	0.000000	34	20.875587
35	0.000000	35	17.187753
36	1171.308848	36	0.000000
37	0.000000	37	43.426176
38	0.000000	38	41.949044
39	940.515176	39	0.000000
40	0.000000	40	53.730407
41	0.000000	41	52.584713
42	703.528473	42	0.000000
43	0.000000	43	69.773626
44	0.000000	44	72.312194
45	1095.340985	45	0.000000
46	0.000000	46	42.996655
47	0.000000	47	48.277545
48	345.571204	48	0.000000
49	0.000000	49	144.673385
50	0.000000	50	144.762215
51	149.871382	51	0.000000
52	0.000000	52	329.523970
53	0.000000	53	338.478630
54	1060.247135	54	0.000000
55	0.000000	55	44.827735
56	0.000000	56	49.467405
50 57	1356.274080	50 57	0.000000
57 58	0.000000	57 58	36.472079
58 59	0.000000	58 59	30.472079 37.247061
	807.158547		0.000000
60 61	0.000000	60 61	61.967845
	0.000000	01	

Coordenada	x Valor x	Coordenada z	Valor z
62	0.000000	62	61.93255
63	8131.451449	63	0.000000
64	0.000000	64	8.864380
65	0.000000	65	3.431660
66	26172.580363	66	0.000000
67	12608.600955	67	0.000000
68	0.000000	68	5.335754
69	0.000000	69	2.594026
70	617.651758	70	0.000000
71	0.000000	71	82.29010
72	0.000000	72	79.54837
73	269.190472	73	0.000000
74	0.000000	74	32.25031
75	0.000000	75	29.508580
76	1618.858651	76	0.000000
77	0.000000	77	187.17536
78	0.000000	78	184.43363
79	20255.550445	79	0.000000
80	25593.772562	80	0.000000
81	2593.641940	81	0.000000
82	0.000000	82	19.69106
83	0.000000	83	18.85647
84	101.385463	84	0.000000
85	0.000000	85	463.57254
86	0.000000	86	522.62065
87	1805.408218	87	0.000000
88	-0.000000	88	0.000000
89	0.000000	89	55.377120
90	254.747511	90	0.000000
91	0.000000	91	167.94657
92	0.000000	92	224.51803
93	5379.308281	93	0.000000
94	7437.174452	94	0.000000
95	2102.328042	95	0.000000
96	0.000000	96	1.236166
90 97	0.000000	97	46.31947
98	97.884394	98	0.000000
99	0.000000	99	495.55584
100	0.000000	100	525.89455
100	148.466406	101	0.000000
101	0.000000	101	326.63754
102	0.000000	102	346.76306
104	731.126623	104	0.000000
105	0.000000	105	53.42460
106	0.000000	106	83.318180
107	73.476365	107	0.000000
108	0.000000	108	667.31361
109	0.000000	109	693.23058
110	206.553730	110	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
111	0.000000	111	230.62482
112	0.000000	112	253.40217
113	97.085509	113	0.000000
114	0.000000	114	480.24000
115	0.000000	115	549.62599
116	603.872707	116	0.000000
117	0.000000	117	0.000000
118	0.000000	118	165.56292
119	3373.114538	119	0.000000
120	7922.014463	120	0.000000
121	1.306115	121	0.000000
122	0.000000	$\frac{122}{122}$	1.765120
123	15693.109636	123	0.000000
124	53631.800000	124	0.000000
125	443.534986	125	0.000000
126	0.000000	126	114.20182
127	0.000000	127	111.17577
128	633.391558	128	0.000000
129	0.000000	128	80.795437
	0.000000		
130		130	77.107603
131	376.495236	131	0.000000
132	0.000000	132	133.54066
133	0.000000	133	132.06353
134	356.115152	134	0.000000
135	0.000000	135	139.14071
136	0.000000	136	141.67928
137	216.672472	137	0.000000
138	0.000000	138	228.20116
139	0.000000	139	232.84083
140	934.802274	140	0.000000
141	0.000000	141	53.105609
142	0.000000	142	53.880591
143	501.993648	143	0.000000
144	0.000000	144	99.579575
145	0.000000	145	99.544285
146	2932.050506	146	0.000000
147	0.000000	147	19.770730
148	0.000000	148	14.338010
149	42990.714562	149	0.000000
150	5936.503942	150	0.000000
151	0.000000	151	7.596980
152	0.000000	152	9.248540
153	3205.036368	153	0.000000
154	0.000000	154	14.774360
155	0.000000	155	16.425920
156	1459.857596	156	0.000000
157	0.000000	157	1255.45522
			1 / 10 10 1 - 10 10 1 / 1/
157	0.000000	158	1257.10678

Coordenada	x Valor x	Coordenada z	Valor z
160	0.000000	160	33.42314
161	0.000000	161	35.074700
162	7186.747991	162	0.000000
163	9931.404057	163	0.000000
164	1504.908308	164	0.000000
165	0.000000	165	33.42039
166	0.000000	166	33.033624
167	537.538199	167	0.000000
168	0.000000	168	4.775017
169	0.000000	169	181.27148
170	575.446839	170	0.000000
171	0.000000	171	0.000000
172	0.000000	172	173.79214
173	79.609649	173	0.000000
174	0.000000	174	543.13714
175	0.000000	175	713.14425
176	154.403592	176	0.000000
177	0.000000	177	236.34096
178	0.000000	178	411.32744
179	7454.250286	179	0.000000
180	7454.250286	180	0.000000
181	857.036164	181	0.000000
182	0.000000	182	51.166337
183	0.000000	183	65.492543
184	73.482281	184	0.000000
185	0.000000	185	593.32877
186	0.000000	186	767.21543
187	544.397942	187	0.000000
188	-0.000000	188	0.000000
189	0.000000	189	183.65472
190	70.988305	190	0.000000
191	0.000000	191	606.35323
192	0.000000	192	802.09736
193	58.989799	193	0.000000
194	0.000000	194	687.79557
195	0.000000	195	1007.11963
196	36568.356124	196	0.000000
197	36568.356124	197	0.000000
198	0.000000	198	0.152248
199	0.000000	199	0.871772
200	43700.395943	200	0.000000
201	73138.709346	201	0.000000
202	10319.871889	202	0.000000
203	0.000000	203	6.357848
204	0.000000	204	3.331792
205	3389.979178	205	0.000000
206	0.000000	206	13.84087
207	0.000000	207	15.65938
	0.000000	401	10.00000

Coordenada	x Valor x	Coordenada z	Valor z
209	0.000000	209	187.83874
210	0.000000	210	186.69305
211	2665.905956	211	0.000000
212	0.000000	212	16.11494
213	0.000000	213	21.39583
214	421.278966	214	0.000000
215	0.000000	215	118.55138
216	0.000000	216	118.64021
217	165.293483	217	0.000000
218	0.000000	218	297.45497
219	0.000000	219	306.40963
220	503.925707	220	0.000000
221	0.000000	221	96.88651
222	0.000000	${222}$	101.52618
223	8643.532671	${223}$	0.000000
224	0.000000	224	5.397199
225	0.000000	$\frac{225}{225}$	6.172181
226	8797.855347	$\frac{226}{226}$	0.000000
227	0.000000	227	8.399530
228	0.000000	228	2.966810
229	58571.672606	$\frac{220}{229}$	0.000000
230	10745.539177	230	0.000000
231	0.000000	231	6.441766
232	0.000000	232	2.864014
233	3243.701759	233	0.000000
234	0.000000	234	17.20194
235	0.000000	$\frac{234}{235}$	13.62419
236	81.915354	$\frac{236}{236}$	0.000000
237	0.000000	$\frac{230}{237}$	102.59527
238	0.000000	238	99.01752
239	495.880449	239	0.000000
240	0.000000	240	611.54497
240	0.000000	240	607.96722
241	37464.026122	$\begin{array}{c} 241 \\ 242 \end{array}$	0.000000
242			
243 244	53127.533086	243 244	0.000000
	2244.626990		0.000000
245	0.000000	245	21.582573
246	0.000000	246	22.96086
247	1144.827104	247	0.000000
248	0.000000	248	87.336240
249	0.022446	249	0.000000
250	333.439339	250	0.000000
251	0.000000	251	195.42861
252	0.000000	252	104.42138
253	75.284789	253	0.000000
254	0.000000	254	706.69744
255	0.000000	255	621.32375
256	0.000000	256	0.000000
257	14895.297560	257	0.000000

Coordenada	a x Valor x	Coordenada z	Valor z
258	12312.901718	258	0.000000
259	0.000000	259	5.899193
260	0.000000	260	2.22230'
261	9731.009357	261	0.000000
262	0.000000	262	10.27644
263	0.123129	263	0.00000
264	486.236489	264	0.00000
265	0.000000	265	102.79379
266	0.000000	266	102.84060
267	131.624919	267	0.000000
268	0.000000	268	381.90410
269	0.000000	269	377.97429
270	98.995730	270	0.000000
271	0.000000	271	498.98239
272	0.000000	272	511.11860
273	9731.009357	273	0.00000
274	9731.009357	274	0.000000
275	0.276970	275	0.000000
276	0.000000	276	1.022860
277	20011.176260	277	0.000000
278	105983.522716	278	0.000000
279	3639.474170	279	0.000000
280	0.000000	280	15.25268
281	0.000000	281	12.22663
282	1958.575500	282	0.00000
283	0.000000	283	24.61527
284	0.000000	284	26.43378
285	7286.367187	285	0.00000
286	0.000000	$\frac{286}{286}$	8.70639
287	0.000000	287	5.01856
288	20272.528225	288	0.01000
289	0.000000	289	3.20489
	0.000000		1.72776
290 291		290	0.00000
	590.328222	291	
292	0.000000	292	85.30425
293	0.000000	293	84.15856
294	662.397017	294	0.000000
295	0.000000	295	74.25941
296	0.000000	296	76.79798
297	999.424619	297	0.000000
298	0.000000	298	47.70017
299	0.000000	299	52.33984
300	1754.027301	300	0.000000
301	0.000000	301	28.12202
302	0.000000	302	28.89701
303	1196.553971	303	0.00000
304	0.000000	304	41.81667
305	0.000000	305	41.78138
306	703.730591	306	0.000000

Coordenada	x Val	or x	Coordenada z	Valor z
307	0.0000	000	307	70.967258
308	0.0000	000	308	71.078202
309	14631.02	25311	309	0.000000
310	0.0000	000	310	6.133760
311	0.0000	000	311	0.701040
312	76899.55	24412	312	0.000000
313	686.773	3227	313	0.000000
314	0.0000	000	314	73.484268
315	0.0000	000	315	72.076132
316	1797.48	0545	316	0.000000
317	0.0000	000	317	28.528218
318	0.0000	000	318	27.120082
319	20042.54	43981	319	0.000000
320	0.0000	000	320	8.329508
321	0.0000	000	321	6.921372
322	6557.20	0550	322	0.000000
323	0.0000	000	323	3.198708
324	0.0000	000	324	1.790572
325	55315.73	36346	325	0.000000
326	94724.68	34418	326	0.000000
327	12649.13	33436	327	0.000000
328	0.0000	000	328	2.051788
329	0.0000	000	329	5.853972
330	1606.06	0472	330	0.000000
331	0.0000	000	331	15.813130
332	0.0000	000	332	46.453370
333	3369.98	2130	333	0.000000
334	0.0000	000	334	0.000000
335	0.0000	000	335	29.673580
336	1325.24	9710	336	0.000000
337	0.0000	000	337	24.245533
338	0.0000	000	338	51.214787
339	146.350	0474	339	0.000000
340	0.0000	000	340	329.937992
341	0.0000	000	341	353.122208
342	2523.37	5629	342	0.000000
343	0.0000	000	343	5.053776
344	0.0000	000	344	34.576864
345	1015.97	8398	345	0.000000
346	0.0000	000	346	16.320916
347	0.0000	000	347	82.104284
348	11985.50	01894	348	0.000000
349	12500.53	23461	349	0.000000
350	16771.89	92470	350	0.000000
351	0.0000	000	351	0.111813
352	0.0000	000	352	5.850507
353	1556.76	7059	353	0.000000
354	0.0000	000	354	32.070269
355	0.0000	000	355	32.164051
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Coordenada	x Valor x	Coordenada z	Valor z
356	1016.208965	356	0.000000
357	0.000000	357	54.41535
358	0.000000	358	43.99046
359	9884.907605	359	0.000000
360	0.000000	360	10.11940
361	2.908562	361	0.000000
362	870.461219	362	0.000000
363	0.000000	363	57.61393
364	0.000000	364	57.26259
365	2034.765994	365	0.000000
366	0.000000	366	26.79033
367	0.000000	367	22.35696
368	565.212776	368	0.000000
369	0.000000	369	92.18240
370	0.000000	370	84.71483
371	736.061021	371	0.000000
372	2.908562	372	0.000000
373	0.000000	373	135.31800
	13762.782958	374	0.00000
	13762.782958	375	0.000000
376	3.053557	376	0.000000
377	0.000000	377	0.756180
	11258.838297	378	0.000000
	72970.400000	379	0.000000
380	1373.302928	380	0.000000
381	0.000000	381	38.26052
382	0.000000	382	34.57269
	11143.309784	383	0.000000
384	0.000000	384	5.225600
385	0.000000	385	3.748474
386	979.262768	386	0.000000
387	0.000000	387	51.64536
388	0.000000	388	50.49967
389	1327.331576	389	0.000000
390	0.000000	390	36.39833
391	0.000000	391	38.93690
392	1414.166352	392	0.000000
393	0.000000	393	32.71023
394	0.000000	394	37.99112
395	593.979056	395	0.000000
396	0.000000	396	79.66942
397	0.000000	397	88.62408
398	1632.347848	398	0.000000
399	0.000000	399	28.30991
400	0.000000	400	32.94958
401	1068.286656	401	0.000000
TOT			46.74785
402	() ()()()()()()()	4117	
402 403	0.000000 0.000000	402 403	46.85880

406 0.000000 406 1.351790 407 10592.383264 407 0.000000 408 1289.386968 408 0.000000 409 0.000000 409 39.29776 410 0.000000 410 38.26971 411 25295.918864 411 0.000001 412 0.000000 413 1.462573 414 10314.366040 414 0.000000 415 0.000000 415 2.476491 416 0.000000 416 1.448449 417 25478.344864 417 0.000000 418 0.000000 418 5.361611 419 0.000000 419 4.333569 420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 422 5356.757064 422 0.000000 423 0.000000 424 9.880409 426 0.000000 426 50.8	Coordenada	x Valor	r x	Coordenada :	z Valor z
407 10592.383264 407 0.000000 408 1289.386968 408 0.000000 409 0.000000 409 39.29776 410 0.000000 410 38.26971 411 25295.918864 411 0.000000 412 0.000000 412 2.490621 413 0.000000 413 1.462578 414 10314.366040 414 0.00000 415 0.000000 416 1.448448 417 25478.344864 417 0.000000 418 0.000000 418 5.361611 419 0.000000 418 5.361611 419 0.000000 419 4.333569 420 35344.860208 420 0.00000 421 46088.975571 421 0.00000 422 5356.757064 422 0.00000 423 0.00000 423 8.786751 424 0.00000 424 9.80409 <td>405</td> <td>0.00000</td> <td>00</td> <td>405</td> <td>6.784510</td>	405	0.00000	00	405	6.784510
408 1289.386968 408 0.000000 409 0.000000 409 39.29776 410 0.000000 410 38.26971 411 25295.918864 411 0.000000 412 0.000000 412 2.490621 413 0.000000 413 1.462573 414 10314.366040 414 0.00000 415 0.000000 416 1.448443 417 25478.344864 417 0.00000 418 0.000000 418 5.361611 419 0.000000 419 4.333563 420 35344.860208 420 0.00000 421 46088.975571 421 0.00000 422 5356.757064 422 0.00000 423 0.00000 424 9.880405 424 0.00000 424 9.880405 425 730.072420 425 0.00000 426 0.000000 426 50.83009	406	0.00000	00	406	1.351790
409 0.000000 409 39.29776 410 0.000000 410 38.26971 411 25295.918864 411 0.00000 412 0.000000 412 2.490621 413 0.000000 413 1.462573 414 10314.366040 414 0.00000 415 0.000000 415 2.476491 416 0.000000 416 1.448444 417 25478.344864 417 0.00000 418 0.000000 418 5.361613 419 0.000000 419 4.333563 420 35344.860208 420 0.00000 421 46088.975571 421 0.00000 422 5356.757064 422 0.00000 423 8.786751 421 0.00000 424 0.00000 424 9.880403 425 730.072420 425 0.00000 426 0.000000 427 86.13744	407	10592.383	3264	407	0.000000
410 0.000000 410 38.26971 411 25295.918864 411 0.00000 412 0.000000 412 2.490621 413 0.000000 413 1.462573 414 10314.366040 414 0.000000 415 0.000000 415 2.476491 416 0.000000 416 1.448448 417 25478.344864 417 0.000000 418 0.000000 418 5.361611 419 0.000000 419 4.333569 420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 422 5356.757064 422 0.000000 423 0.000000 423 8.786751 424 0.000000 424 9.880408 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 </td <td>408</td> <td>1289.3869</td> <td>968</td> <td>408</td> <td>0.000000</td>	408	1289.3869	968	408	0.000000
411 25295.918864 411 0.00000 412 0.000000 412 2.490621 413 0.000000 413 1.462573 414 10314.366040 414 0.00000 415 0.000000 415 2.476491 416 0.000000 416 1.448449 417 25478.344864 417 0.00000 418 0.000000 418 5.361611 419 0.000000 419 4.33356 420 35344.860208 420 0.00000 421 46088.975571 421 0.00000 422 5356.757064 422 0.00000 423 0.00000 423 8.786751 424 0.000000 424 9.88040 425 730.072420 425 0.00000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.00000	409	0.00000	00	409	39.297761
412 0.000000 412 2.490621 413 0.000000 413 1.462573 414 10314.366040 414 0.00000 415 0.000000 415 2.476491 416 0.000000 416 1.448444 417 25478.344864 417 0.000000 418 0.000000 419 4.333563 420 35344.860208 420 0.00000 421 46088.975571 421 0.00000 422 5356.757064 422 0.00000 423 0.000000 423 8.786751 424 0.000000 424 9.880408 425 730.072420 425 0.00000 426 0.000000 424 9.880408 427 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.00000 430 0.000000 430 32.60302	410	0.00000	00	410	38.269719
413 0.000000 413 1.462575 414 10314.366040 414 0.00000 415 0.000000 415 2.476491 416 0.000000 416 1.448445 417 25478.344864 417 0.00000 418 0.000000 418 5.361611 419 0.000000 419 4.333562 420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 422 5356.757064 422 0.00000 423 0.000000 423 8.786751 424 0.000000 424 9.880409 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.00000 430 0.000000 430 32.60302 431 141.579089 431 0.00000	411	25295.918	8864	411	0.000000
414 10314.366040 414 0.00000 415 0.000000 415 2.476491 416 0.000000 416 1.448444 417 25478.344864 417 0.00000 418 0.000000 418 5.361611 419 0.000000 419 4.333569 420 35344.860208 420 0.00000 421 46088.975571 421 0.00000 423 0.000000 423 8.786751 424 0.000000 423 8.786751 424 0.000000 423 8.786751 424 0.000000 423 8.786751 424 0.000000 424 9.88040 425 730.072420 425 0.00000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.00000 430 0.000000 430 32.60302 </td <td>412</td> <td>0.00000</td> <td>00</td> <td>412</td> <td>2.490621</td>	412	0.00000	00	412	2.490621
415 0.000000 415 2.476499 416 0.000000 416 1.448444 417 25478.344864 417 0.000000 418 0.000000 418 5.361611 419 0.000000 419 4.333563 420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 423 0.000000 423 8.786753 424 0.000000 424 9.880403 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.00000 430 0.000000 426 50.83009 431 141.579089 431 0.00000 432 0.000000 432 338.33984 433 0.000000 432 338.33984 433 0.000000 435 270.40112	413	0.00000	00	413	1.462579
416 0.000000 416 1.448444 417 25478.344864 417 0.00000 418 0.000000 418 5.361611 419 0.000000 419 4.333563 420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 422 5356.757064 422 0.00000 423 0.000000 424 9.880403 424 0.000000 424 9.880403 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 430 0.000000 429 0.00000 431 141.579089 431 0.00000 432 0.000000 432 338.33984 433 0.000000 435 270.40112 436 0.000000 436 308.63767	414	10314.366	6040	414	0.000000
417 25478.344864 417 0.000000 418 0.000000 418 5.361613 419 0.000000 419 4.333563 420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 422 5356.757064 422 0.000000 423 0.000000 423 8.786751 424 0.000000 424 9.880403 425 730.072420 425 0.00000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.00000 430 0.000000 429 0.00000 431 141.579089 431 0.00000 432 0.000000 432 338.33984 433 0.000000 433 367.87475 434 172.701848 434 0.00000 435 0.000000 436 308.63767 <td>415</td> <td>0.00000</td> <td>00</td> <td>415</td> <td>2.476491</td>	415	0.00000	00	415	2.476491
418 0.000000 418 5.361611 419 0.000000 419 4.333569 420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 422 5356.757064 422 0.000000 423 0.000000 423 8.786751 424 0.000000 424 9.880409 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87475 434 172.701848 434 0.000000 435 0.000000 436 308.63767 437 406.202888 437 0.000000<	416	0.00000	00	416	1.448449
419 0.000000 419 4.333569 420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 422 5356.757064 422 0.000000 423 0.000000 423 8.786751 424 0.000000 424 9.880409 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 430 0.000000 429 0.000000 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87478 434 172.701848 434 0.000000 435 0.000000 436 308.63767 436 0.000000 438 108.68310 437 406.202888 437 0.000000	417	25478.344	864	417	0.000000
420 35344.860208 420 0.000000 421 46088.975571 421 0.000000 422 5356.757064 422 0.000000 423 0.000000 423 8.786751 424 0.000000 424 9.880405 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 430 0.000000 429 0.000000 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87475 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.6831	418	0.00000	00	418	5.361611
421 46088.975571 421 0.000000 422 5356.757064 422 0.000000 423 0.000000 423 8.786751 424 0.000000 424 9.880405 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 429 -0.000000 429 0.000000 430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87475 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 </td <td>419</td> <td>0.00000</td> <td>00</td> <td>419</td> <td>4.333569</td>	419	0.00000	00	419	4.333569
422 5356.757064 422 0.000000 423 0.000000 423 8.786751 424 0.000000 424 9.880409 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 430 0.000000 429 0.000000 431 141.579089 431 0.00000 432 0.000000 432 338.33984 433 0.000000 433 367.87478 434 172.701848 434 0.00000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 438 108.68310 440 303.781693 440 0.00000	420	35344.860	208	420	0.000000
423 0.000000 423 8.786751 424 0.000000 424 9.880409 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 429 -0.000000 429 0.000000 430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87478 434 172.701848 434 0.00000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 440 303.781693 440 0.00000 441 0.000000 441 128.87343	421	46088.975	571	421	0.000000
424 0.000000 424 9.880409 425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 429 -0.000000 429 0.000000 430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87478 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 438 108.68310 440 303.781693 440 0.000000 441 0.000000 441 128.87343	422	5356.7570	064	422	0.000000
425 730.072420 425 0.000000 426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 429 -0.000000 429 0.000000 430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87475 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 438 108.68310 440 303.781693 440 0.00000 441 0.000000 441 128.87343 442 0.000000 442 200.29056	423	0.00000	00	423	8.786751
426 0.000000 426 50.83009 427 0.000000 427 86.13744 428 3067.064825 428 0.000000 429 -0.000000 429 0.000000 430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87478 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68316 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 </td <td>424</td> <td>0.00000</td> <td>00</td> <td>424</td> <td>9.880409</td>	424	0.00000	00	424	9.880409
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428 3067.064825 428 0.000000 429 -0.000000 429 0.000000 430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87475 434 172.701848 434 0.00000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 448 641.728587 448 0.000000 <tr< td=""><td>426</td><td>0.00000</td><td>00</td><td>426</td><td>50.830097</td></tr<>	426	0.00000	00	426	50.830097
429 -0.000000 429 0.000000 430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87475 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 447 0.000000 447 20.280	427	0.00000	00	427	86.137443
430 0.000000 430 32.60302 431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87478 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 447 20.28018 447 0.000000 449 60.37241 448 641.728587 448 0.000000	428	3067.0648	825	428	0.000000
431 141.579089 431 0.000000 432 0.000000 432 338.33984 433 0.000000 433 367.87475 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 447 20.28018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 450 95.43937	429	-0.00000	00	429	0.000000
432 0.000000 432 338.33984 433 0.000000 433 367.87478 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 447 20.28018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937	430	0.00000	00	430	32.603020
433 0.000000 433 367.87475 434 172.701848 434 0.000000 435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 447 20.28018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	431	141.5790	89	431	0.000000
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435 0.000000 435 270.40112 436 0.000000 436 308.63767 437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	433	0.00000	00	433	367.874757
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437 406.202888 437 0.000000 438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	435	0.00000	00	435	270.401127
438 0.000000 438 108.68310 439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	436	0.00000	00	436	308.637673
439 0.000000 439 137.50109 440 303.781693 440 0.000000 441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	437	406.2028	888	437	0.000000
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441 0.000000 441 128.87343 442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	439	0.00000	00	439	137.501091
442 0.000000 442 200.29056 443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	440	303.7816	93	440	0.000000
443 17353.618181 443 0.000000 444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	441	0.00000	00	441	128.873433
444 28278.420292 444 0.000000 445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	442	0.00000	00	442	200.290567
445 3904.646104 445 0.000000 446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	443	17353.618	3181	443	0.000000
446 0.000000 446 5.328018 447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	444	28278.420	1292	444	0.000000
447 0.000000 447 20.28018 448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	445	3904.6461	104	445	0.000000
448 641.728587 448 0.000000 449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	446	0.00000	00	446	5.328018
449 0.000000 449 60.37241 450 0.000000 450 95.43937 451 2230.216715 451 0.000000	447	0.00000	00	447	20.280182
450 0.000000 450 95.43937 451 2230.216715 451 0.000000	448	641.7285	87	448	0.000000
451 2230.216715 451 0.000000	449	0.00000	00	449	60.372410
	450	0.00000	00	450	95.439370
459 0.000000 459 0.000000	451	2230.2167	715	451	0.000000
492 -0.000000 492 0.000000	452	-0.00000	00	452	0.000000
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456 0.000000 456 560.969 457 31.783819 457 0.0000 458 0.000000 458 1535.000 459 0.000000 459 1609.653 460 240.877618 460 0.0000 461 0.000000 461 188.695 462 0.000000 462 226.414 463 326.975065 463 0.0000 464 0.000000 464 62.6530 465 0.000000 465 243.157 466 16282.175182 466 0.0000	701 00 0423 3577 00 607 393 00 020 380 00 00 80
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472 710.471484 472 0.0000	00
473 0.000000 473 71.8463	98
474 0.000000 474 68.8203	42
475 1573.818051 475 0.0000	00
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486 0.000000 486 5.4803	
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489 0.000000 489 21.0817	
490 569.967795 490 0.0000	
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492 0.000000 492 92.2120	
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Coordenada	a x Valor x	Coordenada z	Valor z
503	1865.429481	503	0.000000
504	0.000000	504	25.645570
505	0.000000	505	27.953610
506	4696.711365	506	0.000000
507	0.000000	507	9.491070
508	0.000000	508	11.799110
509	10365.997115	509	0.000000
510	0.347386	510	0.000000
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517	7569.525786	517	0.000000
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520	951.489391	520	0.000000
521	0.000000	521	65.38073
522	0.000000	522	39.71648
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524	0.000000	524	62.67618
525	0.000000	525	34.30761
526	3536.860924	526	0.000000
527	0.000000	527	28.27414
528	0.075695	528	0.000000
529	168.876120	529	0.000000
530	0.000000	530	311.75154
531	0.000000	531	280.31485
532	299.374745	532	0.000000
533	0.000000	533	178.36822
534	0.000000	534	155.63317
535	340.401575	535	0.000000
536	0.000000	536	162.96280
537	0.000000	537	130.80919
538	743.176042	538	0.000000
539	0.000000	539	80.86375
540	0.000000	540	53.68952
541	371.436630	541	0.000000
542	0.000000	542	129.40293
543	0.000000	543	139.84846
544	5151.268458	544	0.000000
545 546	6915.753911	545 546	0.000000
546	5272.142862	546 547	0.000000
547	2.489337	547	0.000000
548	0.000000	548 540	18.96022
549	693.708558	549	0.000000
550	0.000000	550	111.85400
551	0.000000	551	32.23821

Coordenada	x Valor x	Coordenada z	Valor z
552	915.823937	552	0.000000
553	0.000000	553	89.49710
554	0.000000	554	19.64937
555	2105.219366	555	0.000000
556	0.000000	556	47.48338
557	0.052721	557	0.000000
558	288.386215	558	0.000000
559	0.000000	559	210.22237
560	0.000000	560	136.39803
561	17.872564	561	0.000000
562	0.000000	562	2813.3107
563	0.000000	563	2773.2812
564	821.294415	564	0.000000
565	0.000000	565	99.33883
566	0.000000	566	22.37488
567	241.095093	567	0.000000
568	0.000000	568	174.38599
569	0.000000	569	240.20760
570	7573.933114	570	0.000000
	19020.424696	570 571	0.000000
571 572			
572 572	0.000000	572	0.874820
573	4.950473	573 574	0.000000
574	24275.133654	574	0.000000
575 576	41527.732691	575 576	0.000000
576	824.740771	576	0.000000
577	0.000000	577	62.48672
578	0.000000	578	58.79889
579	6448.841610	579	0.000000
580	0.000000	580	8.492666
581	0.000000	581	7.015534
582	2975.877325	582	0.000000
583	0.000000	583	14.16288
584	0.000000	584	19.44377
585	1375.813784	585	0.000000
586	0.000000	586	36.30071
587	0.000000	587	36.38954
588	358.799610	588	0.000000
589	0.000000	589	134.95377
590	0.000000	590	143.90843
591	1580.960784	591	0.000000
592	0.000000	592	29.31172
593	0.000000	593	33.95139
594	1605.046869	594	0.000000
595	0.000000	595	31.17611
596	0.000000	596	31.14082
597	6848.753675	597	0.000000
598	0.000000	598	10.01755
599	0.000000	599	4.584830
244			

Coordenada	x Valor x	Coordenada z	Valor z
601	4051.860879	601	0.000000
602	0.000000	602	9.888144
603	0.000000	603	14.793456
604	2986.259258	604	0.000000
605	0.000000	605	14.291594
606	0.000000	606	19.196906
607	5542.706482	607	0.000000
608	0.000000	608	4.707594
609	0.000000	609	9.612906
610	6983.718807	610	0.000000
611	0.000000	611	6.569354
612	0.000000	612	11.474666
613	24133.138710	613	0.000000
614	30374.678515	614	0.000000
615	3897.377713	615	0.000000
616	0.000000	616	13.341465
617	0.000000	617	12.319955
618	646.769831	618	0.000000
619	0.000000	619	27.922477
620	0.000000	620	126.708723
621	386.347053	621	0.000000
622	0.000000	622	81.392140
623	0.000000	623	177.474060
624	1006.341899	624	0.000000
625	0.000000	625	3.185002
626	0.000000	626	96.198818
627	301.929851	627	0.000000
628	0.000000	628	114.760076
629	0.000000	629	216.475524
630	141.630706	630	0.000000
631	0.000000	631	306.958859
632	0.000000	632	399.255741
633	1028.128241	633	0.000000
634	-0.000000	634	0.000000
635	0.000000	635	97.276260
636	3060.752355	636	0.000000
637	3892.700253	637	0.000000
638	1649.066265	638	0.000000
639	0.000000	639	23.564252
640	0.000000	640	37.082248
641	239.427931	641	0.000000
642	0.000000	642	120.837260
643	0.000000	643	296.873740
644	538.255229	644	0.000000
645	-0.000000	645	0.000000
646	0.000000	646	185.804540
647	373.134224	647	0.000000
648	0.000000	648	43.098339
649	0.000000	649	224.926261
		<u> </u>	

Coordenada x	Valor x	Coordenada z	Valor z
650 1	58.409305	650	0.0000000
651	0.000000	651	226.312447
652	0.000000	652	405.000753
653	40.813768	653	0.000000
654	0.000000	654	194.376660
655	0.000000	655	515.850540
656 17	728.557442	656	0.000000
657 35	525.797418	657	0.000000
658	0.000000	658	2.043220
659	0.771928	659	0.000000
660 11	153.054177	660	0.000000
661 54	531.400000	661	0.000000
662 8	57.233608	662	0.000000
663	0.000000	663	60.186977
664	0.000000	664	56.499143
665 10	98.807710	665	0.000000
666	0.000000	666	46.251036
667	0.000000	667	44.773904
668 9	21.580660	668	0.000000
669	0.000000	669	51.618915
670	0.000000	670	56.899805
671 42	260.538282	671	0.000000
672	0.000000	672	11.691575
673	0.000000	673	11.780405
674 9	12.310322	674	0.000000
675	0.000000	675	50.335210
676	0.000000	676	59.289870
677 10	044.821624	677	0.000000
678	0.000000	678	45.527055
679	0.000000	679	50.166725
680 7	07.817572	680	0.000000
681	0.000000	681	70.659075
682	0.000000	682	70.623785
683 68	864.957946	683	0.000000
684	0.000000	684	9.999790
685	0.000000	685	4.567070
686 14	479.722642	686	0.000000
687 48	373.471218	687	0.000000
688	0.000000	688	10.219772
689	0.000000	689	10.299788
690 19	066.947598	690	0.000000
691	0.000000	691	25.383292
692	0.000000	692	25.463308
693 91	93.994040	693	0.000000
694	0.000000	694	2.041812
695	0.000000	695	2.121828
696 24	017.264502	696	0.000000
697	0.000000	697	5.398442
698	0.000000	698	5.478458

Coordenada	x Valor x	Coordenada z	Valor z
699	18869.581837	699	0.00000
700	30368.255202	700	0.00000
701	6835.510990	701	0.00000
702	0.000000	702	5.43402
703	0.000000	703	9.19591
704	1063.400445	704	0.00000
705	0.000000	705	33.7695
706	0.000000	706	60.26843
707	166.513048	707	0.00000
708	0.000000	708	289.9370
709	0.000000	709	310.6635
710	3693.431653	710	0.00000
711	-0.000000	711	0.00000
712	0.000000	712	27.07606
713	346.628762	713	0.00000
714	0.000000	714	129.5444
715	0.000000	715	158.9725
716	139.102649	716	0.00000
717	0.000000	717	349.4488
718	0.000000	718	369.4583
719	507.605046	719	0.00000
720	0.000000	720	86.00830
721	0.000000	721	110.9971
722	482.587076	722	0.00000
723	0.000000	723	72.30116
724	0.000000	724	134.9098
725	4088.701554	724 725	0.00000
726	5879.978074	726	0.00000
727	3389.126510	720 727	0.00000
728	0.000000	728	0.50355
729	0.000000	729	
	157.899404	· -	29.00280 0.00000
730		730	357.6315
731	0.000000 0.000000	731	
732		732	275.6806
733	76.594259	733	0.00000 690.8212
734	0.000000	734	
735	0.000000	735	614.6617
736	2008.565826	736	0.00000
737	0.000000	737	49.78840
738	0.033891	738	0.00000
739	536.193705	739	0.00000
740	0.000000	740	123.2955
741	0.000000	741	63.20205
742	135.293930	742	0.00000
743	0.000000	743	409.1986
744	0.000000	744	329.8995
745	212.193211	745	0.00000
746	0.000000	746	203.8835
747	0.000000	747	267.3700

749 750 751 752	11892.733589 13060.900533 0.459905 0.000000 24163.144798 29348.700000 1028.084961 0.000000 463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000 1058.901096	748 749 750 751 752 753 754 755 756 757 758 759 760 761 762	0.000000 0.000000 0.000000 1.361080 0.000000 0.000000 49.367236 47.890104 0.000000 105.25765 110.53854 0.000000 29.793865
750 751 752 753 754 755 756 757 758 759 760 761 762 763	0.459905 0.000000 24163.144798 29348.700000 1028.084961 0.000000 463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000	750 751 752 753 754 755 756 757 758 759 760 761	0.000000 1.361080 0.000000 0.000000 49.367236 47.890104 0.000000 105.257653 110.538543 0.000000
751 752 753 754 755 756 757 758 759 760 761 762 763	0.000000 24163.144798 29348.700000 1028.084961 0.000000 463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000	751 752 753 754 755 756 757 758 759 760 761	1.361080 0.000000 0.000000 49.367236 47.890104 0.000000 105.257655 110.538545 0.000000
752 753 754 755 756 757 758 759 760 761 762 763	24163.144798 29348.700000 1028.084961 0.000000 0.000000 463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000	752 753 754 755 756 757 758 759 760 761	0.000000 0.000000 0.000000 49.367236 47.890104 0.000000 105.257655 110.538545 0.000000
753 754 755 756 757 758 759 760 761 762 763	29348.700000 1028.084961 0.000000 0.000000 463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000	753 754 755 756 757 758 759 760 761	0.000000 0.000000 49.367236 47.890104 0.000000 105.257653 110.538543 0.000000
754 755 756 757 758 759 760 761 762 763	1028.084961 0.000000 0.000000 463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000	754 755 756 757 758 759 760 761	0.000000 49.367236 47.890104 0.000000 105.257653 110.538543 0.000000
755 756 757 758 759 760 761 762 763	0.000000 0.000000 463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000	755 756 757 758 759 760 761	49.367236 47.890104 0.000000 105.257655 110.538545 0.000000
756 757 758 759 760 761 762 763	0.000000 463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000	756 757 758 759 760 761	47.890104 0.000000 105.25765 110.53854 0.000000
757 758 759 760 761 762 763	463.415973 0.000000 0.000000 1675.810770 0.000000 0.000000	757 758 759 760 761	0.000000 105.257655 110.538545 0.000000
758 759 760 761 762 763	$\begin{array}{c} 0.000000\\ 0.000000\\ 1675.810770\\ 0.000000\\ 0.000000\\ \end{array}$	758 759 760 761	105.257655 110.538545 0.000000
758 759 760 761 762 763	$\begin{array}{c} 0.000000\\ 0.000000\\ 1675.810770\\ 0.000000\\ 0.000000\\ \end{array}$	758 759 760 761	105.257655 110.538545 0.000000
759 760 761 762 763	0.000000 1675.810770 0.000000 0.000000	759 760 761	$110.538548 \\ 0.000000$
760 761 762 763	1675.810770 0.000000 0.000000	760 761	0.000000
761 762 763	0.000000 0.000000	761	
762 763	0.000000		_000000
763			29.882695
		763	0.000000
	0.000000	764	42.741480
76 4 765	0.000000	765	51.696140
766	986.996781	766	0.000000
767	0.000000	767	48.343855
768 760	0.000000	768 760	52.983525
769	389.457249	769 770	0.000000
770	0.000000	770	128.387345
771	0.000000	771	128.35205
772	641.562582	772	0.000000
773	0.000000	773	77.874708
774	0.000000	774	77.985652
775	4303.399881	775	0.000000
776	0.000000	776	14.335080
777	0.000000	777	8.902360
778	6019.004454	778	0.000000
779	1006.366923	779	0.000000
780	0.000000	780	45.704430
781	0.000000	781	53.669510
782	6373.657179	782	0.000000
783	0.000000	783	3.862070
784	0.000000	784	11.827150
785	3394.884558	785	0.000000
786	1.347006	786	0.000000
787	0.000000	787	7.965080
788	12554.786886	788	0.000000
789	0.000000	789	10.740230
790	0.000000	790	18.705310
791	11993.574653	791	0.000000
792	15701.231822	792	0.000000
793	2435.061639	793	0.000000
794	0.000000	794	18.059661
795	0.000000	795	23.006419
796	176.590670	796	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
797	0.000000	797	325.5336
798	0.000000	798	240.7177
799	188.790329	799	0.00000
800	0.000000	800	308.5906
801	0.000000	801	221.0703
802	216.184772	802	0.00000
803	0.000000	803	273.3866
804	0.000000	804	189.1479
805	1221.207763	805	0.00000
806	0.000000	806	81.88668
807	0.024351	807	0.00000
808	152.800118	808	0.00000
809	0.000000	809	372.8777
810	0.000000	810	281.5724
811	195.194541	811	0.00000
812	0.000000	812	280.5006
813	0.000000	813	231.7945
814	5196.180306	814	0.00000
815	8820.390600	815	0.00000
816	1036.596084	816	0.00000
817	0.000000	817	30.24046
818	0.000000	818	66.21945
819	39.494311	819	0.00000
820	0.000000	820	1163.8084
821	0.000000	821	1367.8375
822	86.493577	822	0.00000
823	0.000000	823	471.1361
824	0.000000	824	684.9332
825	39.794924	825	0.00000
826	0.000000	826	1138.2002
827	0.000000	827	1374.3617
	148.181410		
828 829	0.000000	828 829	0.00000 219.2860
	0.000000		
830		830	455.4777
831	442.657626 -0.000000	831 832	0.00000
832			0.00000 225.8866
833	0.000000	833	
834	167.980395	834	0.00000
835	0.000000	835	122.8857
836	0.000000	836	472.3522
837	2831.492699	837	0.00000
838	5103.811780	838	0.00000
839	0.280581	839	0.00000
840	0.000000	840	2.31096
841	13647.468178	841	0.00000
842	30860.181981	842	0.00000
843	663.493913	843	0.00000
844	0.000000	844	77.21322
845	0.000000	845	73.52539

Coordenada	x	Valor x	Coordenada z	Valor z
846	568	9.383150	846	0.0000000
847	0.	000000	847	9.528696
848	0.	000000	848	8.051564
849	687	7.564855	849	0.000000
850	0.	000000	850	71.457986
851	0.	000000	851	73.996554
852	540	.361786	852	0.000000
853	0.	000000	853	92.479645
854	0.	000000	854	92.568475
855	109	5.227858	855	0.000000
856	0.	000000	856	43.346435
857	0.	000000	857	47.986105
858	657	'.013274	858	0.000000
859	0.	000000	859	76.121145
860	0.	000000	860	76.085855
861	472	5.311065	861	0.000000
862	0.	000000	862	13.299940
863	0.	000000	863	7.867220
864	2110	7.438669	864	0.000000
865	329	1.547010	865	0.000000
866	0.	000000	866	13.052639
867	0.	000000	867	17.335101
868		3.471144	868	0.000000
869	0.	000000	869	57.496169
870		000000	870	61.778631
871		5.492067	871	0.000000
872		000000	872	13.306599
873	0.	000000	873	17.589061
874	323	7.233090	874	0.000000
875	0.	000000	875	18.823129
876	0.	000000	876	23.105591
877	1575	3.953967	877	0.000000
878		9.003969	878	0.000000
879	312	8.913851	879	0.000000
880	0.	000000	880	16.310953
881	0.	000000	881	15.656307
882	139	2.022483	882	0.000000
883	-0.	000000	883	0.000000
884	0.	000000	884	71.854560
885	387	7.703715	885	0.000000
886	0.	000000	886	94.423883
887		000000	887	163.574117
888		2.928785	888	0.000000
889		000000	889	316.854036
890		000000	890	382.936164
891		0.612439	891	0.000000
892		000000	892	69.462402
893		000000	893	134.827598
894		2.953920	894	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
895	0.000000	895	155.0141
896	0.000000	896	225.35868
897	89.424358	897	0.00000
898	0.000000	898	524.4315
899	0.000000	899	594.1366
900	4874.235999	900	0.00000
901	6279.370804	901	0.00000
902	1092.141840	902	0.00000
903	0.000000	903	43.34488
904	0.000000	904	48.23019
905	309.447469	905	0.00000
906	0.000000	906	323.2062
907	0.010921	907	0.00000
908	265.630738	908	0.00000
909	0.000000	909	344.9720
910	0.000000	910	31.53393
911	126.317125	911	0.00000
912	0.000000	912	541.41969
913	0.000000	913	250.3459
914	65.703253	914	0.00000
915	0.000000	915	902.8450
916	0.000000	916	619.2249
917	105.610116	917	0.00000
918	0.000000	918	633.76208
919	0.000000	919	313.2077
920	61.607721	920	0.00000
921	0.000000	921	973.5870
922	0.000000	922	649.7897
923	552.153068	923	0.00000
924	2062.119315	924	0.00000
925	0.000000	925	2.55126
926	1.801754	926	0.00000
927	10241.178011	927	0.00000
	130354.901619	928	0.000000
929	27842.503437	929	0.00000
930	0.000000	930	0.88658
931	0.000000	931	2.705099
932	2296.853367	932	0.00000
933	0.000000	933	23.61617
934	0.000000	934	19.92834
935	20498.308280	935	0.00000
936	0.000000	936	2.05179
937	0.000000	937	2.82678
938	91915.848229	938	0.00000
939	19853.051517	939	0.00000
940	0.000000	940	2.14754
941	0.000000	941	2.88957
942	1209.693487	942	0.00000
943	0.000000	943	40.98205

Coordenada	x Valor x	Coordenada z	Valor z
944	0.000000	944	41.72408
945	16020.617409	945	0.00000
946	0.000000	946	36.51574
947	0.000000	947	37.25777
948	1355.690977	948	0.00000
949	0.000000	949	2.74992
950	0.000000	950	3.49195
951	62213.019489	951	0.00000
952	115293.900152	952	0.00000
953	1157.551526	953	0.00000
954	0.000000	954	40.72929
955	0.000000	955	45.67126
956	63.503277	956	0.00000
957	0.000000	957	853.6241
958	0.000000	958	721.1790
959	762.004594	959	0.00000
960	0.000000	960	131.2508
961	-0.000000	961	0.00000
962	158.017359	962	0.00000
963	0.000000	963	363.2712
964	0.000000	964	269.64018
965	5311.810608	965	0.00000
966	5384.828887	966	0.00000
967	33514.245206	967	0.00000
968	0.000000	968	2.76246
969	0.000000	969	0.22137
970	201.755756	970	0.22137
971	0.000000	971	240.8364
972	0.000000	972	254.7037
973	29863.873618	973	0.00000
974	-0.000000	974	0.00000
975	0.000000	975	3.34856
976	97.191311	976	0.00000
977	0.000000	977	502.1772
978	0.000000	978	527.6887
979	3026.001200	979	0.00000
980	0.000000	980	11.85452
981	0.000000	981	21.19459
982	11990.914413	982	0.00000
983	12041.851445	983	0.00000
984	0.276189	984	0.00000
	0.270189		0.67668
985		985	
986	15061.001467	986	0.00000
	138598.800000	987	0.00000
988	6920.238084	988	0.00000
989	0.000000	989	9.06882
990	0.000000	990	5.38099
991	9229.294092	991	0.00000
992	0.000000	992	5.029689

Coordenada	a x Valor x	Coordenada z	Valor z
993	0.000000	993	5.8046
994	15627.014700	994	0.00000
995	0.000000	995	3.2173
996	0.000000	996	3.18202
997	1021.473156	997	0.00000
998	0.000000	998	49.2648
999	0.000000	999	48.6208
1000	911.980104	1000	0.00000
1001	0.000000	1001	54.7690
1002	0.000000	1002	54.8800
1003	18416.442726	1003	0.00000
1004	0.000000	1004	5.43272
1005	9.136098	1005	0.00000
1006	72844.757304	1006	0.00000
1007	15511.977696	1007	0.00000
1008	0.000000	1008	3.23992
1009	0.000000	1009	3.20653
1010	2052.648228	1010	0.00000
1011	0.000000	1011	24.3724
1012	0.000000	1012	24.3390
1013	26548.600140	1013	0.00000
1014	0.000000	1014	2.32717
1015	0.000000	1015	2.29378
1016	21640.816632	1016	0.00000
1017	0.000000	1017	1.90006
1018	0.000000	1018	1.86667
1019	56267.749203	1019	0.00000
1020	103137.976522	1020	0.00000
1021	30299.083668	1021	0.00000
1022	0.000000	1022	1.70518
1023	0.000000	1023	1.59519
1024	2263.341550	1024	0.00000
1025	0.000000	1025	18.3938
1026	0.000000	1026	25.7855
1027	7453.877573	1027	0.00000
1028	0.000000	1028	3.57598
1029	0.000000	1029	9.83963
1030	512.357505	1030	0.00000
1031	0.000000	1031	94.3865
1032	0.000000	1032	100.8115
1033	1048.348295	1033	0.00000
1034	0.000000	1034	45.8313
1035	0.000000	1035	49.5520
1036	183.612447	1036	0.00000
1030 1037	0.000000	1037	267.8024
1037	0.000000	1037	277.1567
1039	242.695660	1038	0.00000
1040	0.000000	1040	205.9629
1040	0.000000	1041	205.9029
1041	0.000000	1041	

Coordenada	x Valor x	Coordenada z	Valor z
1042	20345.531692	1042	0.0000000
1043	0.000000	1043	0.000000
1044	0.000000	1044	4.915020
1045	264.208010	1045	0.000000
1046	0.000000	1046	186.088045
1047	0.000000	1047	192.556355
1048	170.886832	1048	0.000000
1049	0.000000	1049	298.911522
1050	0.000000	1050	285.883878
	44702.314999	1051	0.000000
1052	48184.097915	1052	0.000000
1053	10741.407000	1053	0.000000
1054	0.000000	1054	0.226697
1055	0.000000	1055	9.083243
1056	1275.327253	1056	0.000000
1057	0.000000	1057	45.077732
1058	0.000000	1058	33.335188
1059	2162.352643	1059	0.000000
1060	0.000000	1060	34.254140
1061	0.000000	1061	11.992920
1062	463.276884	1062	0.000000
1063	0.000000	1063	114.015233
1064	0.000000	1064	101.827567
1065	723.218933	1065	0.000000
1066	0.000000	1066	77.272021
1067	0.000000	1067	61.002319
1068	5180.473182	1068	0.000000
1069	0.000000	1069	19.303900
1070	0.107414	1070	0.000000
1071	638.898888	1071	0.000000
1072	0.000000	1072	16.518673
1073	0.000000	1073	140.000347
1074	13703.324255	1074	0.000000
1075	16668.277448	1075	0.000000
1076	0.000000	1076	0.491520
1077	1.755808	1077	0.000000
	35460.823478	1078	0.000000
	96428.400000	1079	0.000000
1080	3845.564592	1080	0.000000
1081	0.000000	1081	13.019515
1082	0.000000	1082	12.984225
1083	7455.843888	1083	0.000000
1084	0.000000	1084	7.028002
1085	0.000000	1085	6.384018
1086	18004.146564	1086	0.000000
1087	0.000000	1087	1.386729
1088	0.000000	1088	4.167431
1089	3108.851616	1089	0.000000
1090	0.000000	1090	16.028938

Coordenada	x Valor x	Coordenada z	Valor z
1091	0.000000	1091	16.139882
1092	16069.792860	1092	0.000000
1093	0.000000	1093	5.827710
1094	0.000000	1094	0.394990
1095	40366.856808	1095	0.000000
1096	28362.485292	1096	0.000000
1097	0.000000	1097	2.055709
1098	0.000000	1098	1.470051
1099	2316.210168	1099	0.000000
1100	0.000000	1100	21.878979
1101	0.000000	1101	21.293321
1102	12604.156164	1102	0.000000
1103	0.000000	1103	4.205469
1104	0.000000	1104	3.619811
1105	12778.691568	1105	0.000000
1106	0.000000	1106	4.259639
1107	0.000000	1107	3.673981
1108	51794.378233	1108	0.000000
1109	66219.433933	1109	0.000000
1110	10130.767704	1110	0.000000
1111	0.000000	1111	5.220969
1112	0.000000	1112	4.649731
1113	510.489385	1113	0.000000
1114	0.000000	1114	89.091396
1115	0.000000	1115	106.794984
1116	278.697420	1116	0.000000
1117	0.000000	1117	172.445125
1118	0.000000	1118	186.363675
1119	1614.743064	1119	0.000000
1120	0.000000	1120	21.514626
1121	0.000000	1121	40.412554
1122	1454.474319	1122	0.000000
1123	0.000000	1123	24.150472
1124	0.000000	1124	44.601688
1125	5476.794328	1125	0.000000
1126	-0.000000	1126	0.000000
1127	0.000000	1127	18.258500
1128	4405.462312	1128	0.000000
1129	10107.516890	1129	0.000000
1130	2950.709040	1130	0.000000
1131	0.000000	1131	12.192343
1132	0.000000	1132	21.701377
1133	400.027625	1133	0.000000
1134	0.000000	1134	165.793213
1135	0.000000	1135	84.206787
1136	22.602431	1136	0.000000
1137	0.000000	1137	2238.273146
1138	0.000000	1138	2186.504854
1139	424.252946	1139	0.000000
	12 1.2020 10	1100	

Coordenada	x Valor x	Coordenada z	Valor z
1140	0.000000	1140	162.220230
1141	0.000000	1141	73.517570
1142	678.663079	1142	0.000000
1143	0.000000	1143	94.728121
1144	0.000000	1144	52.634099
1145	1087.719873	1145	0.000000
1146	0.000000	1146	91.945580
1147	-0.000000	1147	0.000000
1148	4157.831417	1148	0.000000
1149	7906.426214	1149	0.000000
1150	0.718299	1150	0.000000
1151	0.000000	1151	0.873800
1152	30208.966067	1152	0.000000
1153	69385.600000	1153	0.000000
1154	2726.160224	1154	0.000000
1155	0.000000	1155	20.183117
1156	0.000000	1156	16.495283
1157	2659.550048	1157	0.000000
1158	0.000000	1158	18.818875
1159	0.000000	1159	18.783585
1160	1739.496992	1160	0.000000
1161	0.000000	1161	29.067532
1162	0.000000	1162	28.423548
1163	7761.473216	1163	0.000000
1164	0.000000	1164	5.051699
1165	0.000000	1165	7.832401
1166	779.894144	1166	0.000000
1167	0.000000	1167	64.071758
1168	0.000000	1168	64.182702
1169	8718.300640	1169	0.000000
1170	0.000000	1170	8.451490
1170	0.000000	1170	3.018770
1172	47071.191040	1172	0.000000
1173	5943.570496	1172	0.000000
1173	0.000000	1173	7.199203
1174	0.000000	1174	9.626477
1176	1449.465184	1176	0.000000
1170	0.000000	1176	33.276253
1177	0.000000	1177	35.703527
1179	8498.348288	1178 1179	0.000000
			6.571013
1180	0.000000	1180	
1181	0.000000	1181	8.998287
1182	6423.024992	1182	0.000000
1183	0.000000	1183	4.669823
1184	0.000000	1184	7.097097
1185	26371.150305	1185	0.000000
1186	50775.348194	1186	0.000000
1187	15598.679079	1187	0.000000
1188	1.979225	1188	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
1189	0.000000	1189	6.40984
1190	1019.685651	1190	0.00000
1191	0.000000	1191	51.51385
1192	0.000000	1192	46.53496
1193	4877.706948	1193	0.00000
1194	0.000000	1194	12.14153
1195	0.000000	1195	8.35698
1196	6257.566099	1196	0.00000
1197	0.000000	1197	10.20112
1198	0.000000	1198	5.777139
1199	39.464658	1199	0.00000
1200	0.000000	1200	1279.8996
1201	0.000000	1201	1258.1723
1202	2955.013765	1202	0.000000
1203	-0.000000	1203	0.000000
1204	0.000000	1204	33.83522
1205	14431.477721	1205	0.000000
1206	18144.357621	1206	0.000000
1207	5544.603296	1207	0.000000
1208	0.000000	1207	6.434098
1209	0.000000	1208	11.60146
1210	1082.694686	1210	0.000000
1210	0.000000	1210	30.27245
1211	0.000000	1211	62.08925
1212	3499.698154	1212	0.000000
1214	-0.000000	1214	0.000000
1215	0.000000	1215	28.57388
1216	329.127652	1216	0.000000
1217	0.000000	1217	64.62831
1218	0.000000	1218	239.23068
1219	5436.566818	1219	0.000000
1220	6177.214883	1220	0.000000
1221	0.000000	1221	1.067140
1222	1.061191	1222	0.000000
1223	18610.251806	1223	0.000000
1224	35084.531544	1224	0.000000
1225	94918.682198	1225	0.000000
	317605.514672	1226	0.000000
	268953.701619	1227	0.000000
	165814.000000	1228	0.000000
1229	633.977485	1229	0.000000
1230	0.000000	1230	80.70827
1231	0.000000	1231	77.02044
1232	1201.996051	1232	0.000000
1233	0.000000	1233	42.33590
1234	0.000000	1234	40.85877
1235	458.203982	1235	0.000000
1236	0.000000	1236	106.77896
1237	0.000000	1237	111.4186

Coordenada	x Valor x	Coordenada z	Valor z
1238	758.878417	1238	0.00000
1239	0.000000	1239	65.89379
1240	0.000000	1240	65.85850
1241	1015.697188	1241	0.00000
1242	0.000000	1242	49.55397
1243	0.000000	1243	48.90998
1244	1414.608312	1244	0.00000
1245	0.000000	1245	33.96032
1246	0.000000	1246	36.74103
1247	748.002213	1247	0.00000
1248	0.000000	1248	66.78944
1249	0.000000	1249	66.90039
1250	4837.455209	1250	0.00000
1251	0.000000	1251	13.05313
1252	0.000000	1252	7.62041
1253	24386.205340	1253	0.00000
1254	8654.301396	1254	0.00000
1255	0.000000	1255	5.72851
1256	0.000000	1256	5.82684
1257	512.935851	1257	0.00000
1258	0.000000	1258	97.41672
1259	0.000000	1259	97.51505
1260	638.889319	1260	0.00000
1261	1729.048068	1261	0.00000
1262	41197.440302	1262	0.00000
1263	42569.217549	1263	0.00000
1264	21102.504452	1264	0.00000
1265	0.000000	1265	56.00464
1266	0.000000	1266	56.10297
1267	892.199637	1267	0.00000
1268	1658.546183	1268	0.00000
1269	115598.620949	1269	0.00000
1270	22996.507609	1270	0.00000
1270	19201.716560	1270	0.00000
1271	0.000000	1271 1272	78.19809
1273	0.000000	$\frac{1272}{1273}$	78.29642
1274	12402.732766	1273 1274	0.00000
1274	14854.786115	$\frac{1274}{1275}$	0.00000
1276	1230.063676	1276	0.00000
1277	0.000000	$\frac{1270}{1277}$	38.74315
	0.000000		42.55766
1278 1279	154.003972	1278	
		1279	0.00000
1280	0.000000	1280	496.8708
1281	0.000000	1281	152.4797
1282	85.108106	1282	0.00000
1283	0.000000	1283	761.0917
1284	0.000000	1284	413.9964
1285	183.008874	1285	0.00000
1286	0.000000	1286	448.6641

1287 0.000000 1287 97.783811 1288 289.126467 1288 0.00000 1289 0.000000 1289 345.901000 1290 0.012301 1290 0.000000 1291 50.198899 1291 0.000000 1292 0.000000 1293 823.842045 1294 143.806744 1294 0.000000 1295 0.000000 1295 520.975314 1296 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 0.00000 1301 449.998612 1302 0.00000 1301 449.998612 1302 0.00000 1301 449.998612 1302 0.00000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.7471393	Coordenada	x Valor x	Coordenada z	Valor z
1289 0.000000 1289 345.901000 1290 0.012301 1290 0.000000 1291 50.198899 1291 0.000000 1292 0.000000 1293 823.842045 1294 143.806744 1294 0.00000 1295 0.000000 1295 520.975314 1296 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 7.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134	1287	0.000000	1287	97.783811
1290 0.012301 1290 0.000000 1291 50.198899 1291 0.000000 1292 0.000000 1292 1168.189755 1293 0.000000 1293 823.842045 1294 143.806744 1294 0.000000 1295 0.000000 1295 520.975314 1296 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 449.998612 1302 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1306 53.230614 1305 786.946043 1305 0.000000 1306 53.230614 1308	1288	289.126467	1288	0.000000
1291 50.198899 1291 0.000000 1292 0.000000 1292 1168.189755 1293 0.000000 1293 823.842045 1294 143.806744 1294 0.000000 1295 0.000000 1295 520.975314 1296 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1302 141.717388 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.23614 1307 0.000000 1307 73.84186 1308 113.989134 <td>1289</td> <td>0.000000</td> <td>1289</td> <td>345.901000</td>	1289	0.000000	1289	345.901000
1292 0.000000 1293 823.842045 1294 143.806744 1294 0.000000 1295 0.000000 1295 520.975314 1296 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1310 0.000000 1310 145.694070 1311 173.592428 </td <td>1290</td> <td>0.012301</td> <td>1290</td> <td>0.000000</td>	1290	0.012301	1290	0.000000
1293 0.000000 1293 823.842045 1294 143.806744 1294 0.000000 1295 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1313 0.000000	1291	50.198899	1291	0.000000
1294 143.806744 1294 0.000000 1295 0.000000 1295 520.975314 1296 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 </td <td>1292</td> <td>0.000000</td> <td>1292</td> <td>1168.189755</td>	1292	0.000000	1292	1168.189755
1295 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075	1293	0.000000	1293	823.842045
1296 0.000000 1296 174.434886 1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.00000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.00000 1312 576.03680 1313 0.007869	1294	143.806744	1294	0.000000
1297 33.998960 1297 0.000000 1298 0.000000 1298 1652.509832 1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.00000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075	1295	0.000000	1295	520.975314
1298 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.00000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.00000 1315 0.000000 1316 796.124771 1317 13.598428	1296	0.000000	1296	174.434886
1299 0.000000 1299 1288.666168 1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.00000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.00000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.00000 1314 46.595075 1314 0.00000 1315 0.00000 1316 796.124771 1317 13.598428	1297	33.998960	1297	0.000000
1300 169.010749 1300 0.000000 1301 0.000000 1301 449.998612 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.00000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.00000 1314 46.595075 1314 0.00000 1315 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.00000	1298	0.000000	1298	1652.509832
1301 0.000000 1302 141.717388 1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.57933 1319 0.000000	1299	0.000000	1299	1288.666168
1302 0.000000 1302 141.717388 1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.57933 1319 0.000000 1319 3403.360667 1320 42.998732	1300	169.010749	1300	0.000000
1303 816.843117 1303 0.000000 1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1319 0.000000	1301	0.000000	1301	449.998612
1304 1484.710393 1304 0.000000 1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.57933 1319 0.000000 1318 3949.579333 1319 0.000000 1321 1452.850419 1322 0.000000	1302	0.000000	1302	141.717388
1305 786.946043 1305 0.000000 1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000	1303	816.843117	1303	0.000000
1306 0.000000 1306 53.230614 1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000	1304	1484.710393	1304	0.000000
1307 0.000000 1307 73.834186 1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 <td>1305</td> <td>786.946043</td> <td>1305</td> <td>0.000000</td>	1305	786.946043	1305	0.000000
1308 113.989134 1308 0.000000 1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 1452.850419 1322 872.731581 1322 0.000000 1322 872.731581 1323 97.896088	1306	0.000000	1306	53.230614
1309 0.000000 1309 731.498930 1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000	1307	0.000000	1307	73.834186
1310 0.000000 1310 145.694070 1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 <td>1308</td> <td>113.989134</td> <td>1308</td> <td>0.000000</td>	1308	113.989134	1308	0.000000
1311 173.592428 1311 0.000000 1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 808.812698 1328 0.000000 1328 0.000000	1309	0.000000	1309	731.498930
1312 0.000000 1312 576.036800 1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 808.812698 1329 0.000000 1330 0.000000	1310	0.000000	1310	145.694070
1313 0.007869 1313 0.000000 1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1321 1452.850419 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 808.812698 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000	1311	173.592428	1311	0.000000
1314 46.595075 1314 0.000000 1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 <td>1312</td> <td>0.000000</td> <td>1312</td> <td>576.036800</td>	1312	0.000000	1312	576.036800
1315 0.000000 1315 1349.797229 1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 <td>1313</td> <td>0.007869</td> <td>1313</td> <td>0.000000</td>	1313	0.007869	1313	0.000000
1316 0.000000 1316 796.124771 1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1334 760.208470	1314	46.595075	1314	0.000000
1317 13.598428 1317 0.000000 1318 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1334 760.208470	1315	0.000000	1315	1349.797229
1318 0.000000 1318 3949.579333 1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1316	0.000000	1316	796.124771
1319 0.000000 1319 3403.360667 1320 42.998732 1320 0.000000 1321 0.000000 1321 1452.850419 1322 0.000000 1322 872.731581 1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1317	13.598428	1317	0.000000
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1318	0.000000	1318	3949.579333
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1319	0.000000	1319	3403.360667
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1320	42.998732	1320	0.000000
1323 97.896088 1323 0.000000 1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1321	0.000000	1321	1452.850419
1324 0.000000 1324 802.301717 1325 0.000000 1325 219.148683 1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1322	0.000000	1322	872.731581
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1323	97.896088	1323	0.000000
1326 92.489768 1326 0.000000 1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1324	0.000000	1324	802.301717
1327 0.000000 1327 808.812698 1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.0000000 1334 760.208470	1325	0.000000	1325	219.148683
1328 0.000000 1328 272.268302 1329 57.997923 1329 0.000000 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1326	92.489768	1326	0.000000
1329 57.997923 1329 0.000000 1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1327	0.000000	1327	808.812698
1330 0.000000 1330 1130.060399 1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1328	0.000000	1328	272.268302
1331 0.000000 1331 594.077601 1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1329	57.997923	1329	0.000000
1332 50.994104 1332 0.000000 1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1330	0.000000	1330	1130.060399
1333 0.000000 1333 1200.575930 1334 0.000000 1334 760.208470	1331	0.000000	1331	594.077601
1334 0.000000 1334 760.208470	1332	50.994104	1332	0.000000
	1333	0.000000	1333	1200.575930
1335 612.956281 1335 0.000000	1334	0.000000	1334	760.208470
	1335	612.956281	1335	0.000000

Coordenad	a x	Valor x	Coordenada z	Valor z
1336	11	14.911931	1336	0.000000
1337	(0.000000	1337	2.653720
1338	(0.584293	1338	0.000000
1339	202	229.745429	1339	0.000000
1340	593	393.505580	1340	0.000000
1341	110	361.403247	1341	0.000000
1342	505	521.824945	1342	0.000000
1343	488	319.217872	1343	0.000000
1344	687	208.905326	1344	0.000000
1345	22	33.428942	1345	0.000000
1346	(0.000000	1346	23.88338
1347	(0.000000	1347	20.85733
1348	94	14.762003	1348	0.000000
1349	(0.000000	1349	7.155157
1350		0.000000	1350	3.467323
1351		83.217647	1351	0.000000
1352		0.000000	1352	9.532096
1353		0.000000	1353	8.054964
1354		10.440757	1354	0.000000
1355		0.000000	1355	26.74674
1356		0.000000	1356	25.60105
1357		53.113707	1357	0.000000
1358		0.000000	1358	9.958596
1359		0.000000	1359	12.49716
1360		71.580141	1360	0.000000
1361		0.000000	1361	20.39147
1362		0.000000	1362	25.67236
1363		08.778256	1363	0.000000
1364		0.000000	1364	35.43670
1365		0.000000	1365	35.52553
1366		66.592638	1366	0.000000
1367		0.000000	1367	70.64286
1368		0.000000	1368	79.59752
1369		79.405313	1369	0.000000
1370		0.000000	1370	15.06663
1371		0.000000	1371	19.70630
1372		053.200028	1372	0.00000
1373		0.000000	1373	2.727439
1374		0.000000	1374	3.502421
1375		338.610669	1375	0.000000
1376		0.000000	1376	1.69328
1377		0.000000	1377	1.65799
1378		24.915933	1378	0.000000
1379		0.000000	1379	11.12836
1380		0.000000	1380	10.48437
1381		86.764734	1381	0.000000
1382		0.000000	1382	9.279959
1383		0.000000	1383	12.06066
1384	36	62.823465	1384	0.000000

Coordenada	a x Valor x	Coordenada z	Valor z
1385	0.000000	1385	13.598268
1386	0.000000	1386	13.709212
1387	345226.265680	1387	0.000000
1388	0.000000	1388	0.144840
1389	0.000000	1389	0.144840
1390	215399.460702	1390	0.000000
1391	2748.497119	1391	0.000000
1392	0.000000	1392	19.699478
1393	0.000000	1393	16.673422
1394	3172.834056	1394	0.000000
1395	0.000000	1395	17.596907
1396	0.000000	1396	13.909073
1397	8314.419183	1397	0.000000
1398	0.000000	1398	6.752516
1399	0.000000	1399	5.275384
1400	1180.389045	1400	0.000000
1401	0.000000	1401	42.913437
1402	0.000000	1402	41.767743
1403	1852.435362	1403	0.000000
1404	0.000000	1404	25.712536
1405	0.000000	1404 1405	28.251104
1406	1697.347750	1406	0.000000
1407	0.000000	1407	26.831995
1408	0.000000	1408	32.112885
1409	1828.741421	1409	0.000000
1410	0.000000	1410	27.294425
1411	0.000000	1411	27.383255
1412	441.568894	1412	0.000000
1413	0.000000	1413	108.87567
1414	0.000000	1414	117.83033
1415	1906.285227	1415	0.000000
1416	0.000000	1416	23.92137
1417	0.000000	1417	28.56104
1417	4801.253979	1417	0.000000
1419	0.000000	1419	10.023969
1419	0.000000	1419	10.023903
	3181.450035		
1421		1421	0.000000 15.733005
1422	0.000000	1422	
1423	0.000000	1423	15.697715
1424	5809.323455	1424	0.000000
1425	0.000000	1425	8.928142
1426	0.000000	1426	8.284158
1427	3823.340427	1427	0.000000
1428	0.000000	1428	11.684959
1429	0.000000	1429	14.465661
1430	2621.411437	1430	0.000000
1431	0.000000	1431	19.013938
1432	0.000000	1432	19.124882
1433	61410.386246	1433	0.000000

Coordenad	ах	Valor x	Coordenada z	Valor z
1434	0	.000000	1434	0.814150
1435	0	.000000	1435	0.814150
1436	1201	139.728253	1436	0.000000
1437	316	66.883237	1437	0.000000
1438	0	.000000	1438	17.631727
1439	0	.000000	1439	13.943893
1440	228	59.828288	1440	0.000000
1441	0	.000000	1441	22.864416
1442	0	.000000	1442	21.387284
1443	26	9.112991	1443	0.000000
1444	0	.000000	1444	185.964047
1445	0	.000000	1445	184.818353
1446	200	07.534859	1446	0.000000
1447	0	.000000	1447	23.637316
1448	0	.000000	1448	26.175884
1449	91	0.659140	1449	0.000000
1450	0	.000000	1450	52.274435
1451	0	.000000	1451	57.555325
1452	107	98.158775	1452	0.000000
1453	0	.000000	1453	4.242699
1454	0	.000000	1454	5.017681
1455	243	35.232292	1455	0.000000
1456	0	.000000	1456	20.545625
1457	0	.000000	1457	20.510335
1458	134	45.564956	1458	0.000000
1459	0	.000000	1459	37.477372
1460	0	.000000	1460	36.833388
1461	93	8.291278	1461	0.000000
1462	0	.000000	1462	53.221028
1463	0	.000000	1463	53.331972
1464	126	69.935742	1464	0.000000
1465	0	.000000	1465	3.945960
1466	0	.000000	1466	3.945960
1467	191	20.750391	1467	0.000000
1468	39	7.711608	1468	0.000000
1469	0	.000000	1469	127.756817
1470	0	.000000	1470	124.068983
1471	32	3.523097	1471	0.000000
1472	0	.000000	1472	152.110455
1473	0	.000000	1473	157.391345
1474	24	9.143378	1474	0.000000
1475	0	.000000	1475	201.000985
1476	0	.000000	1476	201.089815
1477	58	0.123567	1477	0.000000
1478		.000000	1478	85.923579
1479		.000000	1479	86.698561
1480		4.495663	1480	0.000000
1481	0	.000000	1481	324.061745
1482	0	.000000	1482	324.026455

Coordenada	x Valor x	Coordenada z	Valor z
1483	602.303637	1483	0.0000000
1484	0.000000	1484	83.461332
1485	0.000000	1485	82.817348
1486	126.579368	1486	0.000000
1487	0.000000	1487	395.514128
1488	0.000000	1488	395.625072
1489	1380.900593	1489	0.000000
1490	0.000000	1490	36.263420
1491	0.000000	1491	36.263420
1492	117961.693638	1492	0.000000
1493	1410.821856	1493	0.000000
1494	0.000000	1494	36.911258
1495	0.000000	1495	33.885202
1496	3549.467362	1496	0.000000
1497	0.000000	1497	13.165341
1498	0.000000	1498	14.983859
1499	4710.210427	1499	0.000000
1500	0.000000	1500	12.448367
1501	0.000000	1501	8.760533
1502	346.807379	1502	0.000000
1503	0.000000	1503	144.706647
1504	0.000000	1504	143.560953
1505	1374.253731	1505	0.000000
1506	0.000000	1506	33.715255
1507	0.000000	1507	38.996145
1508	312.598488	1508	0.000000
1509	0.000000	1509	159.546985
1510	0.000000	1510	159.635815
1511	710.129396	1511	0.000000
1512	0.000000	1512	67.993765
1513	0.000000	1513	72.633435
1514	5765.967585	1514	0.000000
1515	0.000000	1515	8.275769
1516	0.000000	1516	9.050751
1517	1259.830888	1517	0.000000
1518	0.000000	1518	39.649855
1519	0.000000	1519	39.614565
1520	3432.685285	1520	0.000000
1521	0.000000	1521	14.874222
1522	0.000000	1522	14.230238
1523	1704.546473	1523	0.000000
1524	0.000000	1524	27.917969
1525	0.000000	1525	30.698671
1526	1001.494779	1526	0.000000
1527	0.000000	1527	49.844728
1528	0.000000	1528	49.955672
1529	29103.509054	1529	0.000000
1530	0.000000	1530	1.716270
1531	0.000000	1531	1.716270
1001	0.000000	1001	

Coordenada	x Valor x	Coordenada z	Valor z
1532	185443.766651	1532	0.000000
1533	736.211754	1533	0.000000
1534	0.000000	1534	69.577278
1535	0.000000	1535	66.551222
1536	2303.211582	1536	0.000000
1537	0.000000	1537	20.825151
1538	0.000000	1538	22.643669
1539	3998.167609	1539	0.000000
1540	0.000000	1540	14.359567
1541	0.000000	1541	10.671733
1542	554.476862	1542	0.000000
1543	0.000000	1543	90.744177
1544	0.000000	1544	89.598483
1545	623.091056	1545	0.000000
1546	0.000000	1546	79.116566
1547	0.000000	1547	81.655134
1548	1676.411651	1548	0.000000
1549	0.000000	1549	27.203175
1550	0.000000	1550	32.484065
1551	285.583401	1551	0.000000
1552	0.000000	1552	175.148285
1553	0.000000	1553	175.237115
1554	239.222459	1554	0.000000
1555	0.000000	1555	204.640170
1556	0.000000	1556	213.594830
1557	895.693393	1557	0.000000
1558	0.000000	1558	53.571065
1559	0.000000	1559	58.210735
1560	4582.315474	1560	0.000000
1561	0.000000	1561	10.534069
1562	0.000000	1562	11.309051
1563	1550.309889	1563	0.000000
1564	0.000000	1564	32.298615
1565	0.000000	1565	32.263325
1566	5834.060899	1566	0.000000
1567	0.000000	1567	8.901412
1568	0.000000	1568	8.257428
1569	1472.423507	1569	0.000000
1570	0.000000	1570	33.935008
1571	0.000000	1571	34.045952
1572	51314.144670	1572	0.000000
1573	0.000000	1573	0.975340
1574	0.000000	1574	0.975340
1575 1	186167.486498	1575	0.000000
1576	530.577337	1576	0.000000
1577	0.000000	1577	95.674988
1578	0.000000	1578	92.648932
1579	3546.490618	1579	0.000000
1580	0.000000	1580	15.944317
			-

Coordenada	a x Valor x	Coordenada z	Valor z
1581	0.000000	1581	12.256483
1582	314.623052	1582	0.000000
1583	0.000000	1583	159.757847
1584	0.000000	1584	158.612153
1585	1012.751127	1585	0.000000
1586	0.000000	1586	48.142706
1587	0.000000	1587	50.681274
1588	338.824825	1588	0.000000
1589	0.000000	1589	147.666085
1590	0.000000	1590	147.754915
1591	197.337536	1591	0.000000
1592	0.000000	1592	248.303270
1593	0.000000	1593	257.257930
1594	791.211818	1594	0.000000
1595	0.000000	1595	60.835405
1596	0.000000	1596	65.475075
1597	3010.328257	1597	0.000000
1598	0.000000	1598	16.222699
1599	0.000000	1599	16.997681
1600	1738.804324	1600	0.000000
1601	0.000000	1601	28.788005
1602	0.000000	1602	28.752715
1603	3829.465197	1603	0.000000
1604	0.000000	1604	13.378872
1605	0.000000	1605	12.734888
1606	3693.562932	1606	0.000000
1607	0.000000	1607	12.150979
1608	0.000000	1608	14.931681
1609	1656.890630	1609	0.000000
1610	0.000000	1610	30.119538
1611	0.000000	1611	30.230482
1612	48120.571910	1612	0.000000
1613	0.000000	1613	1.039330
1614	0.000000	1614	1.039330
1615	185659.371400	1615	0.000000
1616	180303.889339	1616	0.000000
1617	127361.559025	1617	0.000000
1618	-58297.812374	1618	0.000000
1619	167400.671938	1619	0.000000
1620	-12903.217401	1620	0.000000

3 Variáveis Duais (Multiplicadores de Lagrange)

Tabela 2: Variáveis duais do problema modszk1

Coordenada y	Valor y
1	1.210840
2	-0.878666
3	0.683620
4	0.471760
5	0.232966
6	0.154938
7	-1.204130
8	0.716719
9	-0.487180
10	-1.620510
11	-0.383570
12	-0.012739
13	-0.047604
14	-0.024140
15	-1.513028
16	-1.843917
17	-0.738566
18	-0.572847
19	1.269284
20	2.640445
21	0.044415
22	4.477330
23	2.319835
24	0.387491
25	-0.017645
26	-2.716360
27	-0.417294
28	22.541654
29	-1.370864
30	-1.370864
31	-1.370864
32	-1.370864
33	-1.370864
34	-0.000000
35	0.882560
36	-0.000000
37	-1.513028
38	-0.000000
39	-1.843917
40	-0.738566
41	-0.572847
42	1.269284
43	2.640445
44	0.044415
45	4.477330
46	2.319835
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Coordenada y	Valor y
47	0.387491
48	-0.017645
49	2.716360
50	-0.000000
51	-0.000000
52	-0.000000
53	-0.000000
54	-0.000000
55	29.524053
56	27.688560
57	28.285730
58	29.145080
59	-0.666166
60	-0.378973
61	1.456520
62	0.859350
63	-0.360396
64	0.382606
65	15.169351
66	10.062760
67	14.946790
68	12.958482
69	
	11.388673
70 71	34.692992 82.781460
71 72	6.696251
73	4.787386
74	
	-8.473100
75 76	-3.366509
76	-8.250539
77	-6.262230
78 70	-4.692422
79	-27.996741
80	-76.085209
81	-7.866765
82	-2.706309
83	-0.000000
84	-1.513028
85	-1.843917
86	-0.738566
87	1.269284
88	2.319835
89	0.387491
90	-0.017645
91	-2.716360
92	-0.193386
93	7.163103
94	0.825780
95	0.825780

Coordenada y	Valor y
96	0.825780
97	0.825780
98	0.825780
99	-0.000000
100	0.359762
101	-0.000000
102	0.909259
103	-0.000000
104	88.248233
105	86.896070
106	85.003551
107	87.493240
108	88.352590
109	0.104356
110	3.349039
111	0.185034
112	0.185025
113	86.943330
114	91.827360
115	97.872065
116	159.662030
117	83.576821
118	-14.295244
119	-3.213761
120	-3.213701
120	-1.513028
121 122	0.909259
123	-0.572847
12 3 124	2.640445
125	0.044415
126	4.477330
127	2.319835
128	0.387491
129	-2.716360
130	0.689147
131	-1.838443
132	-1.788876
133	-1.788876
134	-1.788876
135	-1.788876
136	-1.788876
137	-0.000000
138	0.511430
139	-0.000000
140	-0.000000
141	-43.668120
142	-45.503613
143	-42.686849
144	-44.047093

Coordenada y	Valor y
145	-1.360244
146	-0.000000
147	-0.000000
148	-5.138220
149	0.023404
150	-1.964905
151	6.068109
152	-8.227135
153	-3.088915
154	-3.088915
155	-1.513028
156	0.909259
157	-1.843917
158	-0.738566
159	-0.572847
160	1.269284
161	2.319835
162	0.387491
163	-0.017645
164	0.055472
165	-2.716360
166	1.901092
167	2.869347
168	-0.704068
169	-0.704068
170	-0.704068
171	-0.704068
172	-0.704068
173	-0.000000
174	0.378090
175	-0.000000
176	0.055472
177	-0.000000
178	15.320120
179	14.836790
180	13.484627
181	11.592108
182	14.761544
183	32.891684
184	14.941146
185	0.179602
186	-17.950538
187	0.083013
188	0.046891
189	-5.212447
190	-5.059700
191	-0.175670
192	-2.216688
193	-3.733787
Continua na próxi	

Coordenada y	Valor y
194	67.659000
195	-8.426209
196	-6.209521
197	-3.009322
198	-1.843917
199	-0.738566
200	-0.572847
201	1.269284
202	2.640445
203	4.477330
204	2.319835
205	0.055472
206	-2.716360
207	0.546829
208	7.476082
209	-0.514021
210	-0.514021
211	-0.514021
$\frac{211}{212}$	-0.514021
213	-0.514021
213	
	-0.000000
215	-0.394040
216	-0.000000
217	-0.000000
218	-0.000000
219	-0.000000
220	-0.000000
221	17.653673
222	16.301510
223	14.767457
224	19.118273
225	14.408991
226	35.708567
227	17.758030
228	2.990572
229	0.992720
230	17.533480
231	22.417510
232	20.429201
233	37.326577
234	18.859393
235	90.252180
236	14.166971
237	-23.159606
238	-3.904568
239	-0.000000
240	-1.513028
241	-1.843917
242	-0.738566
Continua na próv	ima página

Coordenada y	Valor y
243	-0.572847
244	1.269284
245	2.640445
246	4.477330
247	2.319835
248	0.055472
249	-2.716360
250	0.429221
251	9.480110
252	1.154020
253	1.154020
254	1.154020
255	1.154020
256	1.154020
257	-0.000000
258	-0.437410
259	-0.000000
260	-0.000000
261	-12.832126
262	-12.832120
263	-14.134269 -14.137070
264	-14.137070
$\frac{204}{265}$	
	-11.367526
266	-16.076808
267	-13.587119
268	5.222768
269	-12.727769
270	$\begin{array}{c} 1.409301 \\ 0.967626 \end{array}$
271	
272	-39.807891
273	-34.923861
274	-23.741690
275	-36.912170
276	-20.014794
277	-38.481978
278	32.910809
279	-43.174400
280	-19.432710
281	-5.947187
282	-1.843917
283	-0.738566
284	2.640445
285	0.044415
286	4.477330
287	2.319835
288	-0.017645
289	-2.716360
290	-0.510755
291	6.758998
Continua na pró	vimo págino

Coordenada y	Valor y
292	2.452656
293	2.452656
294	2.452656
295	2.452656
296	2.452656
297	-0.000000
298	-1.021610
299	-0.000000
300	-0.000000
301	49.393123
302	48.040960
303	46.506908
304	50.857724
305	46.148441
306	48.638130
307	49.497480
308	1.588951
309	88.018240
310	92.902270
311	90.913961
312	89.344153
313	160.736940
314	84.651731
315	-3.752203
316	-1.843917
317	-0.738566
318	2.640445
319	0.044415
320	4.477330
321	2.319835
322	-0.017645
323	-2.716360
324	1.880946
325	14.249629
326	0.040008
327	0.040008
328	0.040008
329	0.040008
330	0.040008
331	-0.000000
332	0.680540
333	-0.000000
334	-0.000000
335	13.249440
336	10.363224
337	13.538030
338	14.714040
339	10.004757
340	12.494446
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341 31.304334 342 13.353796 343 -0.184234 344 -0.176164 345 -40.975472 346 -38.079750 347 -24.894200 348 -30.046736 349 -39.649559 350 31.743228 351 -44.341980 352 -19.447780 353 -3.526855 354 -0.738566 355 2.640445 356 0.044415 357 4.477330 358 2.319835 359 -0.017645 360 0.055472 361 -2.716360 362 2.473379 363 17.989491 364 3.982540 365 3.982540 366 3.982540 367 3.982540 368 3.982540 369 -0.000000 370 1.155480 371 -0.000000 372 -0.000000 373<	Coordenada	y Valor y
342 13.353796 343 -0.184234 344 -0.176164 345 -40.975472 346 -38.079750 347 -24.894200 348 -30.046736 349 -39.649559 350 31.743228 351 -44.341980 352 -19.447780 353 -3.526855 354 -0.738566 355 2.640445 356 0.044415 357 4.477330 358 2.319835 359 -0.017645 360 0.055472 361 -2.716360 362 2.473379 363 17.989491 364 3.982540 365 3.982540 366 3.982540 367 3.982540 368 3.982540 369 -0.000000 370 1.155480 371 -0.000000 372 -0.000000 373 -42.119350 376	341	31.304334
343 -0.184234 344 -0.176164 345 -40.975472 346 -38.079750 347 -24.894200 348 -30.046736 349 -39.649559 350 31.743228 351 -44.341980 352 -19.447780 353 -3.526855 354 -0.738566 355 2.640445 356 0.044415 357 4.477330 358 2.319835 359 -0.017645 360 0.055472 361 -2.716360 362 2.473379 363 17.989491 364 3.982540 365 3.982540 366 3.982540 367 3.982540 368 3.982540 369 -0.000000 370 1.155480 371 -0.000000 372 -0.000000 373 -42.407940 374 -43.760103 37		
344 -0.176164 345 -40.975472 346 -38.079750 347 -24.894200 348 -30.046736 349 -39.649559 350 31.743228 351 -44.341980 352 -19.447780 353 -3.526855 354 -0.738566 355 2.640445 356 0.044415 357 4.477330 358 2.319835 359 -0.017645 360 0.055472 361 -2.716360 362 2.473379 363 17.989491 364 3.982540 365 3.982540 366 3.982540 367 3.982540 368 3.982540 369 -0.000000 370 1.155480 371 -0.000000 372 -0.000000 373 -42.407940 374 -43.760103 375 -42.119350 3		
345 -40.975472 346 -38.079750 347 -24.894200 348 -30.046736 349 -39.649559 350 31.743228 351 -44.341980 352 -19.447780 353 -3.526855 354 -0.738566 355 2.640445 356 0.044415 357 4.477330 358 2.319835 359 -0.017645 360 0.055472 361 -2.716360 362 2.473379 363 17.989491 364 3.982540 365 3.982540 366 3.982540 367 3.982540 368 3.982540 369 -0.000000 370 1.155480 371 -0.000000 372 -0.000000 373 -42.407940 374 -43.760103 375 -42.119350 40 -40.943340 3		
346 -38.079750 347 -24.894200 348 -30.046736 349 -39.649559 350 31.743228 351 -44.341980 352 -19.447780 353 -3.526855 354 -0.738566 355 2.640445 356 0.044415 357 4.477330 358 2.319835 359 -0.017645 360 0.055472 361 -2.716360 362 2.473379 363 17.989491 364 3.982540 365 3.982540 366 3.982540 367 3.982540 368 3.982540 369 -0.000000 370 1.155480 371 -0.000000 372 -0.000000 373 -42.407940 374 -43.760103 375 -42.119350 376 -40.943340 377 -45.652622		
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389 -1.843917		
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418	-145.536899
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434 435	-0.000000
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467	-0.010093
468	-0.245760
469	-0.245700
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471	-0.000000
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473	3.131826
473 474	3.131820 3.212503
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483	9.830682
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487	-6.093833
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577 578	-175.347070
579	-173.440169
580	-172.930300
580 581	-172.173855 -173.270214
582	-173.270214
583	-161.921632 -154.140612
584	-172.091150
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594	-220.183730
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601	-0.738300 -0.572847
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603	2.640445
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607	0.387491
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624	-0.321992
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Coordenada y	Valor y
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637	-0.000000
638	-1.843917
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640	0.044415
641	0.387491
642	-0.017645
643	-0.321992
644	0.055472
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648	-1.843917
649	-0.572847
650	2.640445
651	0.044415
652	2.319835
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669	-0.017645
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683	1.390351
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Coordenada y	Valor y
684	0.055472
685	-0.000000
686	-0.000000
687	-0.000000

4 Observações

- O solver HiGHS foi configurado com o método IPM (Interior Point Method).
- Este arquivo contém a solução detalhada para o problema modszk1.
- As variáveis duais representam os multiplicadores de Lagrange das restrições.
- \bullet Os custos reduzidos (z) indicam o impacto de forçar variáveis não-básicas na base.