Solução do Problema ganges - Solver HiGHS

Análise Computacional

17 de setembro de 2025

1 Informações do Problema

Informações do Problema:

• Nome: ganges

• Número de Variáveis: 1681

• Número de Restrições: 1309

• Inviabilidade Primal: 3.638e-12

• Inviabilidade Dual: 4.263e-13

• Valor Primal: -1.096e+05

• Valor Dual: -5.851e+04

• Gap: -8.482e-21

• Número de Iterações: 21

2 Variáveis Primais e Custos Reduzidos

Tabela 1: Variáveis primais e custos reduzidos do problema ganges

Coordena	da x Valor x Coo	rdenada z	valor z
1	18541.137878	1	0.0000
2	15353.259682	2	0.0000
3	18458.935803	3	0.0000
4	22899.349861	4	0.0000
5	50660.795367	5	0.0000
6	105543.454000	6	0.0000
7	183954.355890	7	0.0000
8	242870.996600	8	0.0000
9	197155.173178	9	0.0000
10	92087.086964	10	0.0000
11	36745.781769	11	0.0000
12	24835.744548	12	0.0000

Coordenada	x Valor x	Coordenada z	Valor z
13	4954.136378	13	0.0000000
14	5040.256681	14	0.000000
15	6207.931302	15	0.000000
16	4827.348361	16	0.000000
17	6983.792366	17	0.000000
18	23401.454000	18	0.000000
19	83955.355890	19	0.000000
20	142871.996600) 20	0.000000
21	107378.173178	3 21	0.000000
22	35050.085463	22	0.000000
23	9805.778768	23	0.000000
24	7365.744548	24	0.000000
25	7890.134877	25	0.000000
26	7976.253679	26	0.000000
27	9143.926800	27	0.000000
28	7763.346860	28	0.000000
29	9919.789364	29	0.000000
30	23401.454000		0.000000
31	83955.355890		0.000000
32	142871.996600		0.000000
33	107378.173178		0.000000
34	35050.083962		0.000000
35	12741.775767		0.000000
36	10301.744548		0.000000
37	7881.433340	37	0.000000
38	7967.530606	38	0.000000
39	9143.902190	39	0.000000
40	7763.325324	40	0.000000
41	9919.766291	41	0.000000
42	23401.454000		0.000000
43	83853.655890		0.000000
44	142629.296600		0.000000
45	107067.473178		0.000000
46	34887.382426		0.000000
47	12659.072694		0.000000
48	10281.044548		0.000000
49	7091.616385	49	0.000000
50	7362.702883	50	0.000000
50 51	8477.073698	50 51	0.000000
51 52	6998.492181	51 52	0.000000
52 53	8290.922381	52 53	0.000000
54 55	18614.654000		0.000000
55 56	73195.855890		0.000000
56	130244.496600		0.000000
57	97951.673178		0.000000
58	30717.581657		0.000000
59	10808.261157		0.000000
60	9108.238361	60	0.000000
61	7082.916187	61	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
62	7353.997685	62	0.000000
63	8477.073500	63	0.000000
64	6998.486786	64	0.000000
65	8290.921985	65	0.000000
66	17934.654000	66	0.000000
67	70373.155890	67	0.000000
68	125239.796600	68	0.000000
69	92878.973178	69	0.000000
70	29874.876657	70	0.000000
71	10725.561157	71	0.000000
72	9087.533163	72	0.000000
73	5963.398705	73	0.000000
74	6629.470203	74	0.000000
75	7777.546018	75	0.000000
76	6359.951822	76	0.000000
77	7072.377021	77	0.000000
78	13497.154000	78	0.000000
79	54365.655890	79	0.000000
80	106728.296600		0.000000
81	80966.473178	81	0.000000
82	24142.376657	82	0.000000
83	8200.051157	83	0.000000
84	7376.015681	84	0.000000
85	5058.681466	85	0.000000
86	5267.673423	86	0.000000
87	6420.523678	87	0.000000
88	5235.878325	88	0.000000
89	5704.013581	89	0.000000
90	12600.354000	90	0.000000
91	48539.141000	91	0.000000
92	95389.946000	92	0.000000
93	70033.887000	93	0.000000
94	19231.991867	94	0.000000
95	7482.037734	95	0.000000
96	6333.658860	96	0.000000
97	3838.256281	97	0.000000
98	4085.255437	98	0.000000
99	5274.092892	99	0.000000
100	3905.450756	100	0.000000
101	3941.573211	101	0.000000
102	6347.954000	102	0.000000
103	25418.741000	103	0.000000
104	57280.546000	104	0.000000
105	41076.487000	105	0.000000
106	11807.589066	106	0.000000
107	4941.622132	107	0.000000
108	4719.246475	108	0.000000
109	3804.552486	109	0.000000
110	4064.546642	110	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
111	5265.389097	111	0.0000000
112	3905.438166	112	0.000000
113	3941.565621	113	0.000000
114	5869.254000	114	0.000000
115	23010.041000	115	0.000000
116	52361.846000	116	0.000000
117	36218.787000	117	0.000000
118	10893.884066	118	0.000000
119	4846.922132	119	0.000000
120	4648.537680	120	0.000000
121	767.806964	121	0.000000
122	187.817759	122	0.000000
123	410.425554	123	0.000000
124	319.735134	124	0.000000
125	397.829928	125	0.000000
126	2525.787000	126	0.000000
127	8932.100000	127	0.000000
128	13597.787000		0.000000
129	10439.787000	129	0.000000
130	2932.794795	130	0.000000
131	1223.802590	131	0.000000
132	1351.677169	132	0.000000
133	200.807739	133	0.000000
134	187.800000	134	0.000000
134	175.802261	135	0.000000
136	249.803218	136	0.000000
137	397.805479	137	0.000000
138			0.000000
	1322.800000 5269.800000	138	0.000000
139		139	
140	8575.800000	140	0.000000
141	5417.800000	141	0.000000
142	1729.802261	142	0.000000
143	656.804521	143	0.000000
144	335.805479	144	0.000000
145	356.500000	145	0.000000
146	343.500000	146	0.000000
147	331.500000	147	0.000000
148	405.500000	148	0.000000
149	553.500000	149	0.000000
150	1478.500000	150	0.000000
151	5425.500000	151	0.000000
152	8731.500000	152	0.000000
153	5573.500000	153	0.000000
154	1885.500000	154	0.000000
155	812.500000	155	0.000000
156	491.500000	156	0.000000
157	654.000000	157	0.000000
158	641.000000	158	0.000000
159	629.000000	159	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
160	703.000000	160	0.000000
161	851.000000	161	0.000000
162	1776.000000	162	0.000000
163	5723.000000	163	0.000000
164	9029.000000	164	0.000000
165	5871.000000	165	0.000000
166	2183.000000	166	0.000000
167	1110.000000	167	0.000000
168	789.000000	168	0.000000
169	789.800000	169	0.000000
170	604.800000	170	0.000000
171	666.800000	171	0.000000
172	764.800000	172	0.000000
173	1628.800000	173	0.000000
174	4786.800000	174	0.000000
175	10657.800000		0.000000
176	12384.800000	176	0.000000
177	9115.800000	177	0.000000
178	4169.800000	178	0.000000
179	1850.800000	179	0.000000
180	1172.800000	180	0.000000
181	1119.500000	181	0.000000
182	724.500000	182	0.000000
183	699.500000	183	0.000000
184	638.500000	184	0.000000
185	1218.500000	185	0.000000
186	4437.500000	186	0.000000
187	16007.500000		0.000000
188	18511.500000	188	0.000000
189	11912.500000	189	0.000000
190	5732.500000	190	0.000000
	2525.500000		0.000000
191	1711.500000	191 192	0.000000
192			0.000000
193	775.935019	193	
194	1200.789000	194	0.000000
195	1163.789000	195	0.000000
196	898.724616	196	0.000000
197	1110.789000	197	0.000000
198	123.800000	198	0.000000
199	2733.514890	199	0.000000
200	5924.350600	200	0.000000
201	5518.586178	201	0.000000
202	4105.159231	202	0.000000
203	653.562304	203	0.000000
204	945.800161	204	0.000000
205	775.935019	205	0.000000
206	1200.789000	206	0.000000
207	1163.789000	207	0.000000
208	898.724616	208	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
209	1110.789000	209	0.0000000
210	407.000000	210	0.000000
211	3016.714890	211	0.000000
212	6207.550600	212	0.000000
213	5801.786178	213	0.000000
214	4388.359231	214	0.000000
215	936.762304	215	0.000000
216	945.800161	216	0.000000
217	8.700000	217	0.000000
218	8.700000	218	0.000000
219	0.000000	219	0.549390
220	0.000000	220	0.549390
221	0.000000	221	0.549390
$\frac{1}{222}$	0.000000	222	0.549390
223	101.700000	223	0.000000
224	242.700000	224	0.000000
225	310.700000	$\begin{array}{c} 221 \\ 225 \end{array}$	0.000000
226	162.700000	226	0.000000
227	82.700000	$\begin{array}{c} 220 \\ 227 \end{array}$	0.000000
228	20.700000	228	0.000000
229	581.935019	$\frac{228}{229}$	0.000000
230	1073.789000	230	0.000000
231	1073.789000	231	0.000000
232	831.724616	232	0.000000
233	1073.789000	233	0.000000
234	161.000000	234	0.000000
235	882.714890	235	0.000000
236	515.550600	236	0.000000
237	281.786178	237	0.000000
238	2896.359231	238	0.000000
239	593.762304	239	0.000000
240	647.800161	240	0.000000
241	1220.425185	241	0.000000
242	1182.417986	242	0.000000
243	1146.430786	243	0.000000
244	1330.427569	244	0.000000
245	1762.440370	245	0.000000
246	4438.400000	246	0.000000
247	15862.400000	247	0.000000
248	25408.400000	248	0.000000
249	16256.400000	249	0.000000
250	5610.402801	250	0.000000
251	2540.415601	251	0.000000
252	1614.412384	252	0.000000
253	383.700000	$\frac{252}{253}$	0.000000
254	364.700000	254	0.000000
255	346.700000	255	0.000000
256	438.700000	256	0.000000
250 257	654.700000	$\frac{250}{257}$	0.000000
401	004.100000	<u> </u>	

Coordenada	x Valor x	Coordenada z	Valor z
258	1992.700000	258	0.0000000
259	7704.700000	259	0.000000
260	12477.700000	260	0.000000
261	7901.700000	261	0.000000
262	2578.700000	262	0.000000
263	1043.700000	263	0.000000
264	580.700000	264	0.000000
265	950.000000	265	0.000000
266	931.000000	266	0.000000
267	913.000000	267	0.000000
268	1005.000000	268	0.000000
269	1221.000000	269	0.000000
270	2559.000000	270	0.000000
271	8271.000000	271	0.000000
272	13044.000000	272	0.000000
273	8468.000000	273	0.000000
274	3145.000000	274	0.000000
275	1610.000000	275	0.000000
276	1147.000000	276	0.000000
277	836.717986	277	0.000000
278	817.717986	278	0.000000
279	799.727986	279	0.000000
280	891.725971	280	0.000000
281	1107.735971	281	0.000000
282	2445.700000	282	0.000000
283	8157.700000	283	0.000000
284	12930.700000	284	0.000000
285	8354.700000	285	0.000000
286	3031.700000	286	0.000000
287	1496.710000	287	0.000000
288	1033.707986	288	0.000000
289	1119.917986	289	0.000000
290	1100.917986	290	0.000000
291	1082.927986	291	0.000000
292	1174.925971	292	0.000000
293	1390.935971	293	0.000000
294	2728.900000	294	0.000000
295	8440.900000	295	0.000000
296	13213.900000	296	0.000000
297	8637.900000	297	0.000000
298	3314.900000	298	0.000000
299	1779.910000	299	0.000000
300	1316.907986	300	0.000000
301	553.600000	301	0.000000
302	534.600000	302	0.000000
303	516.600000	303	0.000000
304	608.600000	304	0.000000
305	824.600000	305	0.000000
306	2162.600000	306	0.000000
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Coordenada	x Valor x	Coordenada z	Valor z
307	7874.600000	307	0.000000
308	12647.600000	308	0.00000
309	8071.600000	309	0.00000
310	2748.600000	310	0.00000
311	1213.600000	311	0.00000
312	750.600000	312	0.00000
313	950.000000	313	0.00000
314	931.000000	314	0.00000
315	913.000000	315	0.00000
316	1005.000000	316	0.00000
317	1221.000000	317	0.00000
318	2559.000000	318	0.000000
319	8271.000000	319	0.000000
320	13044.000000	320	0.00000
321	8468.000000	321	0.00000
321 322	3145.000000	$321 \\ 322$	0.000000
323	1610.000000	323	0.00000
323	1147.000000	324	0.00000
324 325	33.700000	324 325	0.00000
326	20.700000	326	0.00000
327	8.700000	327	0.00000
328	0.000000	328	0.65789
329	0.000000	329	0.65789
330	57.700000	330	0.00000
331	723.700000	331	0.00000
332	1969.700000	332	0.00000
333	1908.700000	333	0.00000
334	501.700000	334	0.00000
335	94.700000	335	0.00000
336	70.700000	336	0.00000
337	566.987000	337	0.00000
338	0.000000	338	0.00000
339	234.600000	339	0.00000
340	69.913000	340	0.00000
341	0.000000	341	0.00000
342	566.987000	342	0.00000
343	1116.300000	343	0.00000
344	566.987000	344	0.00000
345	566.987000	345	0.00000
346	566.987000	346	0.00000
347	566.987000	347	0.00000
348	1015.865000	348	0.00000
349	572.687000	349	0.00000
350	5.700000	350	0.00000
351	240.300000	351	0.00000
352	75.613000	352	0.00000
353	5.700000	353	0.00000
354	572.687000	354	0.00000
ひひせ	0.12.001000	994	0.00000

Coordenada :	x Valor x	Coordenada z	Valor z
356	572.687000	356	0.0000
357	572.687000	357	0.0000
358	572.687000	358	0.0000
359	572.687000	359	0.00000
360	1021.565000	360	0.00000
361	107.000000	361	0.00000
362	66.000000	362	0.0000
363	49.000000	363	0.0000
364	37.000000	364	0.0000
365	21.000000	365	0.0000
366	136.000000	366	0.0000
367	1184.000000	367	0.0000
368	3158.000000	368	0.0000
369	3063.000000	369	0.0000
370	831.000000	370	0.0000
371	189.000000	371	0.0000
372	164.000000	372	0.00000
373	3036.737782	373	0.0000
374	3876.728883	374	0.0000
375	4854.961282	375	0.0000
376	3585.699814	376	0.0000
370 377	3543.730214	377	0.0000
377 378	3343.467000		0.0000
		378	
379	14077.941000		0.0000
380	38764.059000		0.0000
381	25779.000000		0.0000
382	7961.087011	382	0.0000
383	3623.115022	383	0.0000
384	3296.855032	384	0.0000
385	50.400000	385	0.0000
386	9.400000	386	0.0000
387	0.000000	387	0.7143
388	0.000000	388	0.7143
389	0.000000	389	0.7143
390	79.400000	390	0.0000
391	1127.400000	391	0.0000
392	3041.400000	392	0.0000
393	3066.400000	393	0.0000
394	714.400000	394	0.0000
395	132.400000	395	0.0000
396	107.400000	396	0.0000
397	107.000000	397	0.0000
398	66.000000	398	0.0000
399	56.600000	399	0.0000
400	53.800000	400	0.0000
401	56.600000	401	0.0000
402	136.000000	402	0.0000
403	1184.000000	403	0.0000
			0.0000

Coordenada	x Valor x	Coordenada z	Valor z
405	3123.000000	405	0.000000
406	771.000000	406	0.000000
407	189.000000	407	0.000000
408	164.000000	408	0.000000
409	2986.322147	409	0.000000
410	3867.325987	410	0.000000
411	4854.951126	411	0.000000
412	3585.685805	412	0.000000
413	3543.718943	413	0.000000
414	3264.067000	414	0.000000
415	12950.541000	415	0.000000
416	35722.659000	416	0.000000
417	22712.600000	417	0.000000
418	7246.679750	418	0.000000
419	3490.710500	419	0.000000
420	3189.446658	420	0.000000
421	22.000000	421	0.000000
422	0.000000	422	0.714388
423	0.000000	423	0.714388
424	0.000000	424	0.714388
425	0.000000	425	0.714388
426	51.000000	426	0.000000
427	1099.000000	420 427	0.000000
427	3073.000000	427	0.000000
429	2978.000000	429	0.000000
430	626.000000	430	0.000000
430	104.000000	431	0.000000
431	79.000000	432	0.000000
		_	
433	107.000000	433	0.000000
434	85.000000	434	0.000000
435	38.000000	435	0.000000
436	85.000000	436	0.000000
437	85.000000	437	0.000000
438	136.000000	438	0.00000
439	1184.000000	439	0.000000
440	3158.000000	440	0.000000
441	3063.000000	441	0.000000
442	711.000000	442	0.000000
443	189.000000	443	0.000000
444	164.000000	444	0.000000
445	2964.313639	445	0.000000
446	3867.314451	446	0.000000
447	4854.936561	447	0.000000
448	3585.671818	448	0.000000
449	3543.701928	449	0.000000
450	3025.067000	450	0.000000
451	11097.541000	451	0.00000
452	31330.659000	452	0.00000
453	18415.600000	453	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
454	6432.676721	454	0.000000
455	3386.704442	455	0.000000
456	3110.441179	456	0.000000
457	2857.313639	457	0.000000
458	3801.314451	458	0.000000
459	4805.936561	459	0.000000
460	3548.671818	460	0.000000
461	3522.701928	461	0.000000
462	2701.067000	462	0.000000
463	9159.541000	463	0.000000
464	26853.659000		0.000000
465	14033.600000		0.000000
466	5413.676721	466	0.000000
467	3197.704442	467	0.000000
468	2946.441179	468	0.000000
469	1222.467000	469	0.000000
470	1757.403351	470	0.000000
471	2352.941000	471	0.000000
471	688.073000	471	0.000000
473	253.028649	473	0.000000
474	1222.467000	474	0.000000
475	2352.941000	475	0.000000
476	15040.059000		0.000000
477	3774.000000	477	0.000000
478	3330.000000	478	0.000000
479	2352.941000	479	0.00000
480	1720.679000	480	0.000000
481	1222.467000	481	0.00000
482	1757.403351	482	0.00000
483	2352.941000	483	0.00000
484	688.073000	484	0.00000
485	253.028649	485	0.00000
486	1222.467000	486	0.00000
487	2352.941000	487	0.00000
488	15040.059000	488	0.00000
489	3774.000000	489	0.00000
490	3330.000000	490	0.00000
491	2352.941000	491	0.00000
492	1720.679000	492	0.00000
493	1222.467000	493	0.00000
494	1757.403351	494	0.00000
495	2352.941000	495	0.00000
496	688.073000	496	0.000000
497	253.028649	497	0.00000
498	1222.467000	498	0.00000
499	2352.941000	499	0.00000
500	15040.059000		0.00000
501	3774.000000	501	0.00000
501 - 502	3330.000000	502	0.00000
004	0000.000000	902	

Coordenada	x Valor x	Coordenada z	Valor z
503	2352.941000	503	0.0000000
504	1720.679000	504	0.000000
505	688.073000	505	0.000000
506	3324.403351	506	0.000000
507	785.941000	507	0.000000
508	688.073000	508	0.000000
509	787.422649	509	0.000000
510	688.073000	510	0.000000
511	2352.941000	511	0.000000
512	15040.059000	512	0.000000
513	5341.000000	513	0.000000
514	3330.000000	514	0.000000
515	2352.941000	515	0.000000
516	688.073000	516	0.000000
517	0.000000	517	0.714388
518	0.000000	518	0.714388
519	0.000000	519	0.714388
520	0.000000	520	0.714388
521	0.000000	521	0.714388
522	1290.600000	522	0.000000
523	6052.600000	523	0.000000
524	10494.600000		0.000000
525	8940.600000	525	0.000000
526	1486.602261	526	0.000000
527	26.604521	527	0.000000
528	0.000000	528	0.714388
529	90.592261	529	0.000000
530	90.600000	530	0.000000
531	90.597739	531	0.000000
532	90.596782	532	0.000000
533	90.594521	533	0.000000
534	910.200000	534	0.000000
535	4259.200000	535	0.000000
536	7288.200000	536	0.000000
537	5734.200000	537	0.000000
538	1106.200000	538	0.000000
539	117.200000	539	0.000000
540	90.594521	540	0.000000
541	320.000000	541	0.000000
542	320.000000	542	0.000000
543	308.000000	543	0.000000
544	346.000000	544	0.000000
545	408.000000	545	0.000000
546	864.000000	546	0.000000
547	2800.000000	547	0.000000
548	4416.000000	548	0.000000
549	2862.000000	549	0.000000
549 550	1060.000000	550	0.000000
550 551	542.000000	550 551	0.000000
	U14.000000	991	

Coordenada :	x Valor x	Coordenada z	Valor z
552	382.000000	552	0.000000
553	160.000000	553	0.000000
554	160.000000	554	0.000000
555	154.000000	555	0.000000
556	173.000000	556	0.000000
557	204.000000	557	0.000000
558	432.000000	558	0.000000
559	1400.000000	559	0.000000
560	2208.000000	560	0.000000
561	1431.000000	561	0.000000
562	530.000000	562	0.000000
563	271.000000	563	0.000000
564	191.000000	564	0.000000
565	160.000000	565	0.000000
566	160.000000	566	0.000000
567	154.000000	567	0.000000
568	173.000000	568	0.000000
569	204.000000	569	0.000000
570	432.000000	570	0.000000
571	1400.000000	571	0.000000
572	2208.000000	572	0.000000
573	1431.000000	573	0.000000
573 574	530.000000	574	0.000000
57 4 575	271.000000	575	0.000000
576	191.000000	576	0.000000
570 577	8.700000	577	0.000000
578	8.700000	578	0.000000
	0.00000		0.549390
579 590		579	
580	0.000000	580	0.549390
581	0.000000	581	0.549390
582	0.000000	582	0.549390
583	101.700000	583	0.000000
584	242.700000	584	0.000000
585	310.700000	585	0.000000
586	162.700000	586	0.000000
587	82.700000	587	0.000000
588	20.700000	588	0.000000
589	2936.000000	589	0.000000
590	2936.000000	590	0.000000
591	2936.000000	591	0.000000
592	2936.000000	592	0.000000
593	2936.000000	593	0.000000
594	0.000000	594	0.000000
595	0.000000	595	0.000000
596	0.000000	596	0.000000
597	0.000000	597	0.000000
598	0.000000	598	0.000000
599	2936.000000	599	0.000000
600	2936.000000	600	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
601	0.000000	601	0.000000
602	0.000000	602	0.000000
603	0.000000	603	0.000000
604	0.000000	604	0.000000
605	0.000000	605	0.000000
606	58.205721	606	0.000000
607	0.000000	607	0.000000
608	0.000000	608	0.000000
609	0.000000	609	0.000000
610	1822.570231	610	0.000000
611	0.000000	611	0.000000
612	0.000000	612	0.000000
613	566.300000	613	0.000000
614	566.300000	614	0.000000
615	566.300000	615	0.000000
616	566.300000	616	0.000000
617	566.300000	617	0.000000
618	566.300000	618	0.000000
619	566.300000	619	0.000000
620	566.300000	620	0.000000
621	566.300000	621	0.000000
622	566.300000	622	0.000000
623	566.300000	623	0.000000
624	566.300000	624	0.000000
625	0.000000	625	0.000000
626	0.000000	626	0.000000
627	0.000000	627	0.000000
628	0.000000	628	0.000000
629	0.000000	629	0.000000
630	0.000000	630	0.000000
631	0.000000	631	0.000000
632	0.000000	632	0.000000
	0.000000	633	0.000000
633 634	0.000000	634	0.000000
635	0.000000 0.000000	635	0.000000
636		636	0.000000
637	0.000000	637	0.000000
638	5.700000	638	0.000000
639	95.636981	639	0.000000
640	75.613000	640	0.000000
641	5.700000	641	0.000000
642	0.000000	642	0.000000
643	843.044432	643	0.000000
644	0.000000	644	0.000000
645	0.000000	645	0.000000
646	0.000000	646	0.000000
647	0.000000	647	0.000000
648	1021.565000	648	0.000000
649	0.000000	649	0.375000

Coordenada	x Valor x	Coordenada z	Valor z
650	0.000000	650	0.375000
651	0.000000	651	0.375000
652	0.000000	652	0.375000
653	0.000000	653	0.375000
654	0.000000	654	0.375000
655	897.656000	655	0.000000
656	2811.656000	656	0.000000
657	2836.656000	657	0.000000
658	484.656000	658	0.000000
659	0.000000	659	0.375000
660	0.000000	660	0.375000
661	0.000000	661	0.375000
662	0.000000	662	0.375000
663	0.000000	663	0.375000
664	0.000000	664	0.375000
665	0.000000	665	0.375000
666	0.000000	666	0.375000
667	897.656000	667	0.000000
668	2871.656000	668	0.000000
669	2776.656000	669	0.000000
670	424.656000	670	0.000000
671	0.000000	671	0.375000
672	0.000000	672	0.375000
673	0.000000	673	0.549107
674	0.000000	674	0.549107
675	0.000000	675	0.549107
676	0.000000	676	0.549107
677	0.000000	677	0.549107
678	0.000000	678	0.549107
679	0.000000	679	0.000000
680	12687.118000		0.000000
681	1421.059000	681	0.000000
682	977.059000	682	0.000000
683	0.000000	683	0.549107
684	0.000000	684	0.549107
685	0.000000	685	0.000000
686	1052.919706	686	0.000000
687	2352.941000	687	0.000000
688	688.073000	688	0.000000
689	0.000000	689	-0.000000
690	0.000000	690	-0.000000
691	2352.941000	691	0.000000
692	15040.059000		0.000000
693	2551.533000	693	0.000000
694	2551.555000	694	0.000000
695	1130.474000	695	0.000000
696	498.212000	696	0.000000
696 697	0.000000	697	-0.000000
698	2636.330351	698	0.000000
	<u> </u>	U90	

Coordenada	x Valor x	Coordenada z	Valor z
699	97.868000	699	0.000000
700	0.000000	700	-0.000000
701	99.349649	701	0.000000
702	0.000000	702	0.000000
703	1664.868000	703	0.000000
704	14351.986000	704	0.000000
705	4652.927000	705	0.000000
706	2641.927000	706	0.000000
707	1664.868000	707	0.000000
708	0.000000	708	-0.000000
709	155.700000	709	-0.819403
710	155.700000	710	-0.819403
711	155.700000	711	-0.819403
712	155.700000	712	-0.819403
713	155.700000	713	-0.819403
714	155.700000	714	-0.819403
715	155.700000	715	-0.819403
716	155.700000	716	-0.819403
717	155.700000	717	-0.819403
718	155.700000	718	-0.819403
719	155.700000	719	-0.819403
720	155.700000	720	-0.819403
720	297.500000	720 721	-0.746269
722	297.500000	721 722	-0.746269
723	297.500000	723	-0.746269
724	297.500000	723 724	-0.746269
725	297.500000	724 725	-0.746269
726			
	297.500000 297.500000	726 727	-0.746269
727		727	-0.746269
728	297.500000	728	-0.746269
729	297.500000	729	-0.746269
730	297.500000	730	-0.746269
731	297.500000	731	-0.746269
732	297.500000	732	-0.746269
733	283.200000	733	-0.549390
734	283.200000	734	-0.549390
735	283.200000	735	-0.549390
736	283.200000	736	-0.549390
737	283.200000	737	-0.549390
738	283.200000	738	-0.549390
739	283.200000	739	-0.549390
740	283.200000	740	-0.549390
741	283.200000	741	-0.549390
742	283.200000	742	-0.549390
743	283.200000	743	-0.549390
744	283.200000	744	-0.549390
745	311.500000	745	-0.549390
746	311.500000	746	-0.549390
747	311.500000	747	-0.549390

Coordenada x	Valor x	Coordenada z	Valor z
748	311.500000	748	-0.54939
749	311.500000	749	-0.54939
750	311.500000	750	-0.54939
751	311.500000	751	-0.54939
752	311.500000	752	-0.54939
753	311.500000	753	-0.54939
754	311.500000	754	-0.54939
755	311.500000	755	-0.54939
756	311.500000	756	-0.54939
757	0.000000	757	0.00000
758	0.000000	758	0.00000
759	0.000000	759	0.00000
760	0.000000	760	0.00000
761	0.000000	761	0.00000
762	283.200000	762	0.00000
763	283.200000	763	0.00000
764	283.200000	764	0.00000
765	283.200000	765	0.00000
766	283.200000	766	0.00000
767	283.200000	767	0.00000
768	0.000000	768	0.00000
769	28.300000	769	-0.54939
709 770	28.300000	779 770	-0.54939 -0.54939
771	25.000000	771	0.00000
772	19.000000	772	0.00000
773	19.000000	773	0.00000
774	19.000000	774	0.00000
775	28.300000	775	-0.54939
776	28.300000	776	-0.54939
777	28.300000	777	-0.54939
778	28.300000	778	-0.54939
779	28.300000	779	-0.54939
780	28.300000	780	-0.54939
781	283.200000	781	-0.54939
782	283.200000	782	-0.54939
783	283.200000	783	-0.54939
784	283.200000	784	-0.54939
785	283.200000	785	-0.54939
786	283.200000	786	-0.54939
787	283.200000	787	-0.54939
788	283.200000	788	-0.54939
789	283.200000	789	-0.54939
790	283.200000	790	-0.54939
791	283.200000	791	-0.54939
792	283.200000	792	-0.54939
793	396.400000	793	-0.54939
794	396.400000	794	-0.54939
795	396.400000	795	-0.54939
796	396.400000	796	-0.54939

Coordenada x	Valor x	Coordenada z	Valor z
797	396.400000	797	-0.54939
798	396.400000	798	-0.54939
799	396.400000	799	-0.54939
800	396.400000	800	-0.54939
801	396.400000	801	-0.54939
802	396.400000	802	-0.54939
803	396.400000	803	-0.54939
804	396.400000	804	-0.54939
805	28.300000	805	-0.65789
806	28.300000	806	-0.65789
807	28.300000	807	-0.65789
808	25.000000	808	0.00000
809	12.000000	809	0.00000
810	28.300000	810	-0.65789
811	28.300000	811	-0.65789
812	28.300000	812	-0.65789
813	28.300000	813	-0.65789
814	28.300000	814	-0.65789
815	28.300000	815	-0.65789
816	28.300000	816	-0.65789
817	5.700000	817	-0.81940
818	5.700000	818	-0.81940
819	5.700000	819	-0.81940
820	5.700000	820	-0.81940
821	5.700000	821	-0.81940
822	5.700000	822	-0.81940
823	5.700000	823	-0.81940
824	5.700000	824	-0.81940
825	5.700000	825	-0.81940
826	5.700000	826	-0.81940
827	5.700000	827	-0.81940
828	5.700000	828	-0.81940
829	56.600000	829	-0.51940
830	56.600000	830	-0.71436
831	56.600000	831	-0.71436
832	53.800000	832	0.00000
833	56.600000	833	0.00000
834	56.600000	834	-0.71438
835	56.600000	835	-0.71436 -0.71438
836	56.600000	836	
			-0.71438
837	56.600000	837	-0.71438
838	56.600000	838	-0.71438
839	56.600000	839	-0.71438
840	56.600000	840	-0.71438
841	85.000000	841	-0.71438
842	85.000000	842	0.00000
843	38.000000	843	0.00000
844	85.000000	844	0.00000
845	85.000000	845	0.00000

Coordenada x	Valor x	Coordenada z	Valor z
846	85.000000	846	-0.71438
847	85.000000	847	-0.71438
848	85.000000	848	-0.71438
849	85.000000	849	-0.71438
850	85.000000	850	-0.71438
851	85.000000	851	-0.71438
852	85.000000	852	-0.71438
853	0.000000	853	0.000000
854	0.000000	854	0.00000
855	0.000000	855	0.00000
856	0.000000	856	0.00000
857	0.000000	857	0.00000
858	0.000000	858	0.000000
859	0.000000	859	0.000000
860	0.000000	860	0.000000
861	0.000000	861	0.000000
862	0.000000	862	0.000000
863	0.000000	863	0.000000
864	0.000000	864	0.00000
865	90.600000	865	0.00000
866	90.600000	866	0.00000
867	90.600000	867	0.00000
868	90.600000	868	0.00000
869	90.600000	869	0.00000
870	90.600000	870	-0.71438
871	90.600000	871	-0.71438
872	90.600000	872	-0.71438
873	90.600000	873	-0.71438
874	90.600000	874	-0.71438
875	90.600000	875	-0.71438
876	90.600000	876	0.00000
877	229.407739	877	0.00000
878	229.400000	878	0.00000
879	217.402261	879	0.00000
880	255.403218	880	0.00000
881	317.405479	881	0.00000
882	424.800000	882	-0.71438
883	424.800000	883	-0.71438
884	424.800000	884	-0.71438
885	424.800000	885	-0.71438
886	424.800000	886	-0.71438
887	424.800000	887	-0.71438
888	291.405479	888	0.00000
889	28.300000	889	-0.54939
890	28.300000	890	-0.54939
891	25.000000	891	0.00000
892	19.000000	892	0.00000
893	19.000000	893	0.00000
894	19.000000	894	0.00000

Coordenada	x Valor x	Coordenada z	Valor z
895	28.300000	895	-0.54939
896	28.300000	896	-0.54939
897	28.300000	897	-0.54939
898	28.300000	898	-0.54939
899	28.300000	899	-0.54939
900	28.300000	900	-0.54939
901	581.935019	901	0.00000
902	1073.789000	902	0.00000
903	1073.789000	903	-0.00000
904	831.724616	904	0.00000
905	1073.789000	905	0.00000
906	102.794279	906	0.00000
907	882.714890	907	0.00000
908	515.550600	908	0.00000
909	281.786178	909	0.00000
910	1073.789000	910	-4.05357
911	593.762304	911	0.00000
912	647.800161	912	0.00000
913	572.687000	913	0.00000
914	0.000000	914	0.00000
915	144.663019	915	0.00000
916	0.000000	916	0.00000
917	0.000000	917	0.00000
918	572.687000	918	0.00000
919	278.955568	919	0.00000
920	572.687000	920	0.00000
920	572.687000	921	0.00000
922	572.687000	922	-5.06696
923	572.687000	923	-0.00090
923	0.000000	924	0.00000
924	107.000000	924 925	0.00000
	66.000000		0.00000
926	56.600000	926	0.00000
927	53.800000	927	0.00000
928	56.600000	928	0.00000
929		929	
930	136.000000	930	0.00000
931	286.344000	931	-0.37500
932	286.344000	932	-0.37500
933	286.344000	933	-0.37500
934	286.344000	934	-1.38839
935	189.000000	935	0.00000
936	164.000000	936	0.00000
937	107.000000	937	0.00000
938	85.000000	938	0.00000
939	38.000000	939	0.00000
940	85.000000	940	0.00000
941	85.000000	941	0.00000
942	136.000000	942	0.00000
943	286.344000	943	-0.37500

Coordenada	x Valor x	Coordenada z	Valor z
944	286.344000	944	-0.375000
945	286.344000	945	-0.375000
946	286.344000	946	-1.388393
947	189.000000	947	0.000000
948	164.000000	948	0.000000
949	1222.467000	949	0.000000
950	1757.403351	950	0.000000
951	2352.941000	951	-0.000000
952	688.073000	952	0.000000
953	253.028649	953	0.000000
954	1222.467000	954	0.000000
955	2352.941000	955	-0.549107
956	2352.941000	956	-0.549107
957	2352.941000	957	-0.549107
958	2352.941000	958	-1.156250
959	2352.941000	959	-0.000000
960	1720.679000	960	0.000000
961	1222.467000	961	0.000000
962	704.483644	962	0.000000
963	0.000000	963	-0.000000
964	0.000000	964	-0.000000
965	253.028649	965	0.000000
966	1222.467000	966	-0.000000
967	0.000000	967	-0.000000
968	0.000000	968	-0.000000
969	1222.467000	969	-0.000000
970	1222.467000	970	-2.026786
971	1222.467000	971	-0.000000
972	1222.467000	972	-0.000000
973	688.073000	973	-0.075893
974	688.073000	974	-0.075893
975	688.073000	975	-0.075893
976	688.073000	976	-0.075893
977	688.073000	977	-0.075893
978	688.073000	978	-0.075893
979	688.073000	979	-0.075893
980	688.073000	980	-0.075893
981	688.073000	981	-0.075893
982	688.073000	982	-2.508929
983	688.073000	983	
	688.073000		-0.075893 -0.075893
984		984	
985	3843.091616	985	0.000000
986	2852.302616	986	0.000000
987	1837.513616	987	0.000000
988	1049.789000	988	0.000000
989	0.000000	989	0.000000
990	0.000000	990	0.000000
991	511.285110	991	0.000000
992	3715.734510	992	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
993	7041.948331	993	0.000000
994	5120.589100	994	0.000000
995	4750.826797	995	0.000000
996	4298.026636	996	0.000000
997	0.000000	997	0.000000
998	117.300000	998	0.000000
999	0.000000	999	0.000000
1000	60.387000	1000	0.000000
1001	227.687000	1001	0.000000
1002	0.000000	1002	0.000000
1003	0.000000	1003	0.000000
1004	1203.313000	1004	0.000000
1005	1789.626000	1005	0.000000
1006	1648.939000	1006	0.000000
1007	1298.252000	1007	0.000000
1008	436.687000	1008	0.000000
1009	60.000000	1009	-0.00000
1010	60.000000	1010	-0.71438
1010	52.400000	1010	0.000000
1011	35.600000	1011	0.000000
1012	0.000000	1012	0.714388
1013	0.000000	1013	0.714300
1014	0.000000	1014	0.00000
1016	60.000000	1016	0.000000
1017	0.000000	1017	0.000000
1018	60.000000	1018	-0.37500
1019	60.000000	1019	0.000000
1020	60.000000	1020	0.000000
1021	120.000000	1021	-0.71438
1022	101.000000	1022	0.000000
1023	112.000000	1023	0.00000
1024	64.000000	1024	0.00000
1025	0.000000	1025	0.71438
1026	0.000000	1026	0.375000
1027	0.000000	1027	0.00000
1028	0.000000	1028	0.000000
1029	0.000000	1029	0.000000
1030	120.000000	1030	-0.37500
1031	120.000000	1031	0.000000
1032	120.000000	1032	0.000000
1033	0.000000	1033	0.000000
1034	1567.000000	1034	0.000000
1035	0.000000	1035	-0.00000
1036	0.000000	1036	0.00000
1037	534.394000	1037	0.00000
1038	0.000000	1038	0.54910'
1039	0.000000	1039	0.000000
1040	0.000000	1040	0.00000
1041	1567.000000	1041	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
1042	1567.000000	1042	-0.549107
1043	1567.000000	1043	-0.000000
1044	534.394000	1044	0.000000
1045	5028.913000	1045	0.000000
1046	1975.509649	1046	0.000000
1047	1386.568649	1047	0.000000
1048	846.495649	1048	0.000000
1049	145.073000	1049	0.000000
1050	0.000000	1050	0.549107
1051	2384.059000	1051	0.000000
1052	0.000000	1052	0.000000
1053	6920.000000	1053	0.000000
1054	6920.000000	1054	-0.549107
1055	5319.059000	1055	0.000000
1056	5284.986000	1056	0.000000
1057	2477.729912	1057	0.000000
1058	2477.729912	1058	0.000000
1059	743.820218	1059	0.000000
1060	743.820218	1060	0.000000
1061	991.076164	1061	0.000000
1062	682.192407	1062	0.000000
1063	15298.765118		0.000000
1064	9786.520959	1064	0.000000
1065	10834.271513		0.000000
1066	9001.161229	1066	0.000000
1067	10000.000000		-0.500000
1068	12729.755829		0.000000
1069	13579.135482		0.000000
1070	10149.056274	1070	0.000000
1071	4155.196895	1071	0.000000
1072	6231.356259	1072	0.000000
1073	4267.708305	1073	0.000000
1074	1793.623138	1074	0.000000
1075	4267.708305	1075	0.000000
1076	2643.164424	1076	0.000000
1077	4267.708305	1077	0.000000
1078	10000.000000	1078	-0.500000
1079	5821.073071	1079	0.000000
1080	10110.291782		0.000000
1081	11985.935611	1081	0.000000
1082	134.540734	1082	0.000000
1083	122.399858	1083	0.000000
1084	120.169901	1084	0.000000
1085	148.911568	1084	0.000000
1086	182.608695	1086	0.000000
1080	221.013508	1087	0.000000
	232.906612		0.000000
1088	240.092028	1088	0.000000
1089 1090	240.092028	1089 1090	0.000000
1090	Z4U.U3ZUZŎ	1090	

Coordenada	x Valor x	Coordenada z	Valor z
1091	235.384342	1091	0.0000000
1092	208.872632	1092	0.000000
1093	167.990088	1093	0.000000
1094	134.540734	1094	0.000000
1095	122.399858	1095	0.000000
1096	120.169901	1096	0.000000
1097	148.911568	1097	0.000000
1098	182.608695	1098	0.000000
1099	221.013508	1099	0.000000
1100	232.906612	1100	0.000000
1101	240.092028	1101	0.000000
1102	240.092028	1102	0.000000
1103	235.384342	1103	0.000000
1104	208.872632	1104	0.000000
1105	167.990088	1105	0.000000
1106	40.389438	1106	0.000000
1107	36.744719	1107	0.000000
1108	36.075281	1108	0.000000
1109	44.703595	1109	0.000000
1110	54.819550	1110	0.000000
1111	66.348763	1111	0.000000
1112	69.919100	1112	0.000000
1113	72.076179	1113	0.000000
1114	72.076179	1114	0.000000
1115	70.662921	1115	0.000000
1116	62.704044	1116	0.000000
1117	50.431011	1117	0.000000
1118	40.389438	1118	0.000000
1119	36.744719	1119	0.000000
1120	36.075281	1120	0.000000
1121	44.703595	1121	0.000000
1121	54.819550	1121	0.000000
1123	66.348763	1123	0.000000
1124	69.919100	1124	0.000000
1125	72.076179	1125	0.000000
1126	72.076179	1126	0.000000
1127	70.662921	1127	0.000000
1127	62.704044	1127	0.000000
1129	50.431011	1129	0.000000
1130	53.815436	1130	0.000000
1131	48.959163	1131	0.000000
1131	48.067194	1131	0.000000
1132	59.563677	1132	0.000000
1133 1134	73.042313	1135 1134	0.000000
1134 1135		1134 1135	0.000000
	88.403994		
1136 1127	93.161159	1136	0.000000
1137	96.035280	1137	0.000000
1138	96.035280	1138	0.000000
1139	94.152236	1139	0.000000

Coordenada x	Valor x	Coordenada z	Valor z
1140	83.547721	1140	0.0000000
1141	67.194964	1141	0.000000
1142	37.043048	1142	0.000000
1143	33.700305	1143	0.000000
1144	33.086332	1144	0.000000
1145	40.999764	1145	0.000000
1146	50.277580	1146	0.000000
1147	60.851563	1147	0.000000
1148	64.126086	1148	0.000000
1149	66.104444	1149	0.000000
1150	66.104444	1150	0.000000
1151	64.808279	1151	0.000000
1152	57.508820	1152	0.000000
1153	46.252645	1153	0.000000
1154	401.175050	1154	0.000000
1155	350.689125	1155	0.000000
1156	341.509866	1156	0.000000
1157	460.840234	1157	0.000000
1158	600.058997	1158	0.000000
1159	759.166154	1159	0.000000
1160	808.122202	1160	0.000000
1161	838.719733	1161	0.000000
1161	838.719733	1161	0.000000
1163	818.831338	1162	0.000000
1164	708.680229	1163	0.000000
1165	540.393813	1165	0.000000
1166	93.960838	1166	0.000000
1167	58.729363	1167	0.000000
1168	51.878798	1168	0.000000
1169	135.064226	1169	0.000000
1170	232.929436	1170	0.000000
1171	344.495775	1171	0.000000
1172	379.727250	1172	0.000000
1173	401.257596	1173	0.000000
1174	401.257596	1174	0.000000
1175	386.577815	1175	0.000000
1176	310.242952	1176	0.000000
1177	190.847396	1177	0.000000
1178	305.100943	1178	0.000000
1179	252.013013	1179	0.000000
1180	242.262168	1180	0.000000
1181	367.939718	1181	0.000000
1182	515.285810	1182	0.000000
1183	683.217019	1183	0.000000
1184	735.221522	1184	0.000000
1185	766.640910	1185	0.000000
1186	766.640910	1186	0.000000
1187	746.055794	1187	0.000000
1188	630.129089	1188	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
1189	451.363609	1189	0.0000000
1190	177.263055	1190	0.000000
1191	133.157365	1191	0.000000
1192	125.056320	1192	0.000000
1193	229.469790	1193	0.000000
1194	351.885583	1194	0.000000
1195	491.403582	1195	0.000000
1196	534.609156	1196	0.000000
1197	560.712523	1197	0.000000
1198	560.712523	1198	0.000000
1199	543.610317	1199	0.000000
1200	447.297892	1200	0.000000
1201	298.778731	1201	0.000000
1202	728.000000	1202	0.000000
1203	663.000000	1203	0.000000
1204	650.000000	1204	0.000000
1205	806.000000	1205	0.000000
1206	987.000000	1206	0.000000
1207	911.800000	1207	0.000000
1208	976.800000	1208	0.000000
1209	1015.800000	1209	0.000000
1210	1015.800000	1210	0.000000
1210	989.800000	1210	0.000000
1211	846.800000	1211	0.000000
1212	909.000000	1213	0.000000
1214	662.925742	1214	0.000000
1214	600.549938	1214	0.000000
1216	592.393158	1216	0.000000
1217	746.058325	1217	0.000000
1217	919.183005	1217	0.000000
1219	1116.494220	1218 1219	0.000000
1219	1110.494220	1219 1220	0.000000
1220	1205.213340	1220 1221	0.000000
1221	1205.213340	$\frac{1221}{1222}$	0.000000
		$\frac{1222}{1223}$	
1223	1181.026804	_	0.000000
1224	1044.818416	1224	0.000000
1225	834.777445	1225	0.000000
1226	454.147057	1226	0.000000
1227	387.609293	1227	0.000000
1228	375.388071	1228	0.000000
1229	532.906042	1229	0.000000
1230	717.582285	1230	0.000000
1231	928.058885	1231	0.000000
1232	993.238735	1232	0.000000
1233	1032.618228	1233	0.000000
1234	1032.618228	1234	0.000000
1235	1006.817871	1235	0.000000
1236	861.521121	1236	0.000000
1237	637.465386	1237	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
1238	154.693756	1238	0.000000
1239	104.963380	1239	0.000000
1240	95.829229	1240	0.000000
1241	213.558282	1241	0.000000
1242	351.585447	1242	0.000000
1243	508.895820	1243	0.000000
1244	557.611290	1244	0.000000
1245	587.043553	1245	0.000000
1246	587.043553	1246	0.000000
1247	567.760346	1247	0.000000
1248	459.165444	1248	0.000000
1249	291.706015	1249	0.000000
1250	159.930419	1250	0.000000
1251	143.309632	1251	0.000000
1252	139.985474	1252	0.000000
1253	183.590884	1253	0.000000
1254	243.544609	1254	0.000000
1255	281.262169	1255	0.000000
1256	297.882956	1256	0.000000
1257	307.855429	1257	0.000000
1258	307.855429	1258	0.000000
1259	301.207114	1259	0.000000
1260	264.225861	1260	0.000000
1261	207.299664	1261	0.000000
1262	221.121368	1262	0.000000
1263	200.557892	1263	0.000000
1264	196.819078	1264	0.000000
1265	245.423657	1265	0.000000
1266	302.128999	1266	0.000000
1267	366.935104	1267	0.000000
1268	386.875444	1268	0.000000
1269	399.338157	1269	0.000000
1270	399.338157	1270	0.000000
1271	391.237394	1271	0.000000
1272	346.371629	1272	0.000000
1273	277.826710	1273	0.000000
1274	177.963436	1274	0.000000
1275	162.172916	1275	0.000000
1276	159.185520	1276	0.000000
1277	197.168124	1277	0.000000
1278	241.979061	1278	0.000000
1279	292.764790	1279	0.000000
1280	308.555310	1280	0.000000
1281	317.944269	1280	0.000000
1281	317.944269	1281	0.000000
1282	311.542706	1283	0.000000
1283 1284	276.974269	1284	0.000000
1284 1285	270.974209	1285	0.000000
1286 1286	18.194085	1286	0.000000
1400	10.134000	1400	

Coordenada x	Valor x	Coordenada z	Valor z
1287	11.557679	1287	0.000000
1288	10.302143	1288	0.000000
1289	29.065389	1289	0.000000
1290	45.098432	1290	0.000000
1291	66.442547	1291	0.000000
1292	73.078953	1292	0.000000
1293	77.024924	1293	0.000000
1294	77.024924	1294	0.000000
1295	74.334489	1295	0.000000
1296	59.806142	1296	0.000000
1297	37.027128	1297	0.000000
1298	177.963436	1298	0.000000
1299	162.172916	1299	0.000000
1300	159.185520	1300	0.000000
1301	197.168124	1301	0.000000
1302	241.979061	1302	0.000000
1303	292.764790	1303	0.000000
1304	308.555310	1304	0.000000
1305	317.944269	1305	0.000000
1306	317.944269	1306	0.000000
1307	311.542706	1307	0.000000
1308	276.974269	1308	0.000000
1309	222.774374	1309	0.000000
1310	25.219956	1310	0.000000
1311	15.440248	1311	0.000000
1312	60.590033	1312	0.000000
1313	37.114196	1313	0.000000
1314	64.867423	1314	0.000000
1315	96.321079	1315	0.000000
1316	106.100788	1316	0.000000
1317	111.915750	1317	0.000000
1318	111.915750	1318	0.000000
1319	107.951003	1319	0.000000
1320	86.541371	1320	0.000000
1321	52.973183	1321	0.000000
1322	177.963436	1322	0.000000
1323	162.172916	1323	0.000000
1324	159.185520	1324	0.000000
1325	197.168124	1324 1325	0.000000
1326	241.979061	1326	0.000000
1327	292.764790	1327	0.000000
1328	308.555310	1328	0.000000
1329	317.944269	1328	0.000000
1329 1330	317.944269	1330	0.000000
	317.944209		0.000000
1331		1331	
1332	276.974269	1332	0.000000
1333	222.774374	1333	0.000000
1334	543.000000	1334	0.000000
1335	494.000000	1335	0.000000

Coordenada 2	v Valor x	Coordenada z	Valor z
1336	485.000000	1336	0.000000
1337	601.000000	1337	0.000000
1338	737.000000	1338	0.000000
1339	892.000000	1339	0.000000
1340	940.000000	1340	0.000000
1341	969.000000	1341	0.000000
1342	969.000000	1342	0.000000
1343	950.000000	1343	0.000000
1344	843.000000	1344	0.000000
1345	678.000000	1345	0.000000
1346	152.138747	1346	0.000000
1347	130.600777	1347	0.000000
1348	126.526026	1348	0.000000
1349	178.333576	1349	0.000000
1350	239.454843	1350	0.000000
1351	308.725613	1351	0.000000
1352	330.263583	1352	0.000000
1353	343.069944	1353	0.000000
1354	343.069944	1354	0.000000
1355	334.338334	1355	0.000000
1356	287.187642	1356	0.000000
1357	213.260014	1357	0.000000
1358	192.191428	1358	0.000000
1359	154.791088	1359	0.000000
1360	159.711623	1360	0.000000
1361	211.692262		0.000000
1362	255.848065	1361 1362	0.000000
1363	268.766016	1363	0.000000
1364	306.174096	1364	0.000000
1365	328.416738	1365	0.000000
1366	328.416738	1366	0.000000
1367	313.251300	1367	0.000000
1368	231.357937	1368	0.000000
1369	236.351752	1369	0.000000
1370	622.536304	1370	0.000000
1371	563.805219	1371	0.000000
1372	556.317877	1372	0.000000
1373	701.354730	1373	0.000000
1374	864.363455	1374	0.000000
1375	1050.145457	1375	0.000000
1376	1098.377947	1376	0.000000
1377	1133.137161	1377	0.000000
1378	1133.137161	1378	0.000000
1379	1110.363883	1379	0.000000
1380	982.114372	1380	0.000000
1381	784.346434	1381	0.000000
1382	0.001501	1382	0.000000
1383	0.003001	1383	0.000000
1384	0.004502	1384	0.000000

Coordenada x		Valor x	Coordenada z	Valor z	
35		0.001501	1385	0.000000	
86		0.003001	1386	0.000000	
7		0.000000	1387	0.000000	
8		0.000000	1388	0.000000	
9		0.000000	1389	0.000000	
0		0.000000	1390	0.000000	
1		0.001501	1391	0.000000	
2		0.003001	1392	0.000000	
3		0.000000	1393	6.595320	
4		0.001501	1394	0.000000	
5		0.003001	1395	0.000000	
6		0.004502	1396	0.000000	
7		0.001501	1397	0.000000	
8		0.003001	1398	0.000000	
9		0.000000	1399	0.000000	
00		0.000000	1400	0.000000	
1		0.000000	1401	0.000000	
2		0.000000	1402	0.000000	
3		0.001501	1403	0.000000	
4		0.003001	1404	0.000000	
5		0.000000	1405	6.595320	
6		0.000768	1406	0.000000	
7		0.011537	1407	0.000000	
8		0.012305	1408	0.000000	
9		0.010768	1409	0.000000	
0		0.011537	1410	0.000000	
1		0.000000	1411	0.000000	
2		0.000000	1412	0.000000	
3		0.000000	1413	0.000000	
4		0.000000	1414	0.000000	
5		0.000768	1415	0.000000	
6		0.001537	1416	0.000000	
7		0.000000	1417	6.595320	
8		0.000768	1418	0.000000	
9		0.011537	1419	0.000000	
0		0.012305	1420	0.000000	
1		0.010768	1421	0.000000	
$\overline{2}$		0.011537	1422	0.000000	
3		0.000000	1423	0.000000	
4		0.000000	1424	0.000000	
5		0.000000	1425	0.000000	
6		0.000000	1426	0.000000	
7		0.000768	1427	0.000000	
8		0.001537	1428	0.000000	
9		0.000000	1429	6.595320	
0		0.000198	1430	0.000000	
1		0.005198	1431	0.000000	
				0.000000	
				0.000000	
1 2 3		0.005198 0.000198 0.005396		1431 1432 1433	

Coordenada x	Valor x	Coordenada z	Valor z	
1434	0.000396	1434	0.000000	
1435	0.000000	1435	0.000000	
1436	0.000000	1436	0.000000	
1437	0.000000	1437	0.000000	
1438	0.000000	1438	0.000000	
1439	0.005000	1439	0.000000	
1440	0.000000	1440	9.881118	
1441	0.005198	1441	0.000000	
1442	0.012086	1442	0.000000	
1443	0.022086	1443	0.000000	
1444	0.022086	1444	0.000000	
1445	0.024173	1445	0.000000	
1446	0.034173	1446	0.000000	
1447	0.000000	1447	0.000000	
1448	0.000000	1448	0.000000	
1449	0.000000	1449	0.000000	
1450	0.000000	1450	0.000000	
1451	0.000000	1451	19.762237	
1452	0.010000	1452	0.000000	
1453	0.012086	1453	0.000000	
1454	0.006691	1454	0.000000	
1455	0.016691	1455	0.000000	
1456	0.016691	1456	0.000000	
1457	0.013381	1457	0.000000	
1458	0.023381	1458	0.000000	
1459	0.000000	1459	0.000000	
1460	0.000000	1460	0.000000	
1461	0.000000	1461	0.000000	
1462	0.000000	1462	0.000000	
1463	0.000000	1463	29.474945	
1464	0.010000	1464	0.000000	
1465	0.006691	1465	0.000000	
1466	0.007739	1466	0.000000	
1467	0.000000	1467	5.372705	
1468	0.002261	1468	0.000000	
1469	0.003218	1469	0.000000	
1470	0.005479	1470	0.000000	
1471	0.000000	1471	0.000000	
1472	0.000000	1472	0.000000	
1473	0.000000	1473	0.000000	
1474	0.000000	1474	0.000000	
1475	0.002261	1475	0.000000	
1476	0.004521	1476	0.000000	
1477	0.004921 0.005479	1477	0.000000	
1478	0.005479 0.016187	1478	0.000000	
1479	0.016187	1479	0.000000	
1480	0.016187	1480	0.000000	
1480	0.010137 0.022374	1481	0.000000	
1481	0.022374 0.032374	1481	0.000000	
	0.002014	1702		

Coordenada x	Valor x	Coordenada z	Valor z
1483	0.000000	1483	0.000000
1484	0.000000	1484	0.000000
1485	0.000000	1485	0.000000
1486	0.000000	1486	0.000000
1487	0.000000	1487	19.762237
1488	0.010000	1488	0.000000
1489	0.006187	1489	0.000000
1490	0.005396	1490	0.000000
1491	0.005396	1491	0.000000
1492	0.005396	1492	0.000000
1493	0.010791	1493	0.000000
1494	0.010791	1494	0.000000
1495	0.000000	1495	0.000000
1496	0.000000	1496	0.000000
1497	0.000000	1497	0.000000
1498	0.000000	1498	0.000000
1499	0.000000	1499	0.000000
1500	0.000000	1500	9.881118
1501	0.005396	1501	0.000000
1502	128.782220	1502	0.000000
1503	161.007780	1503	0.000000
1504	193.233340	1504	0.000000
1505	225.348880	1505	0.000000
1506	257.574440	1506	0.000000
1507	0.000000	1507	0.000000
1508	0.000000	1508	0.000000
1509	0.000000	1509	0.000000
1510	0.000000	1510	0.000000
1511	32.225560	1511	0.000000
1512	64.451120	1512	0.000000
1513	96.556660	1513	0.000000
1514	0.000768	1514	0.000000
1515	0.011537	1515	0.000000
1516	0.012305	1516	0.000000
1517	0.010768	1517	0.000000
1518	0.011537	1518	0.000000
1519	0.000000	1519	0.000000
1520	0.000000	1520	0.000000
1521	0.000000	1521	0.000000
1522	0.000000	1522	0.000000
1523	0.000768	1523	0.000000
1524	0.001537	1524	0.000000
1525	0.000000	1525	6.595320
1526	0.007199	1526	0.000000
1527	0.000000	1527	3.955293
1528	0.002801	1528	0.000000
1529	0.001598	1529	0.000000
1530	0.004399	1530	0.000000
1531	0.000000	1531	0.000000

Coordenada x	Valor x	Coordenada z	Valor z	
1532	0.000000	1532	0.000000	
1533	0.000000	1533	0.000000	
1534	0.000000	1534	0.000000	
1535	0.002801	1535	0.000000	
1536	0.005601	1536	0.000000	
1537	0.004399	1537	0.000000	
1538	0.017986	1538	0.000000	
1539	0.017986	1539	0.000000	
1540	0.027986	1540	0.000000	
1541	0.025971	1541	0.000000	
1542	0.035971	1542	0.000000	
1543	0.000000	1543	0.000000	
1544	0.000000	1544	0.000000	
1545	0.000000	1545	0.000000	
1546	0.000000	1546	0.000000	
1547	0.000000	1547	19.762237	
1548	0.010000	1548	0.000000	
1549	0.007986	1549	0.000000	
1550	0.003795	1550	0.000000	
1551	0.008795	1551	0.000000	
1552	0.003795	1552	0.000000	
1553	0.012590	1553	0.000000	
1554	0.007590	1554	0.000000	
1555	0.000000	1555	0.000000	
1556	0.000000	1556	0.000000	
1557	0.000000	1557	0.000000	
1558	0.000000	1558	0.000000	
1559	0.005000	1559	0.000000	
1560	0.000000	1560	11.832639	
1561	0.008795	1561	0.000000	
1562	0.005534	1562	0.000000	
1563	0.003034	1563	0.000000	
1564	0.001003	1564	0.000000	
1565	0.005534	1565	0.000000	
1566	0.003334 0.001068	1566	0.000000	
1567	0.001003 0.000000	1567	0.000000	
1568	0.000000	1568	0.000000	
1569	0.000000	1569	0.000000	
1570	0.000000	1570	0.000000	
1570 1571	0.005534	1570 1571	0.000000	
1571 1572	0.003334 0.001068	1572	0.000000	
	0.001008 0.000000	1572	9.836776	
1573 1574	0.000000 0.007739		9.830770	
1574		1574		
1575	0.000000	1575 1576	5.143180	
1576	0.002261	1576	0.000000	
1577	0.003218	1577	0.000000	
1578	0.005479	1578	0.000000	
1579	0.000000	1579	0.000000	
1580	0.000000	1580	0.000000	

Coordenada x	Valor x	Coordenada z	Valor z
1581	0.000000	1581	0.000000
1582	0.000000	1582	0.000000
1583	0.002261	1583	0.000000
1584	0.004521	1584	0.000000
1585	0.005479	1585	0.000000
1586	0.007896	1586	0.000000
1587	0.002896	1587	0.000000
1588	0.007896	1588	0.000000
1589	0.010791	1589	0.000000
1590	0.005791	1590	0.000000
1591	0.000000	1591	0.000000
1592	0.000000	1592	0.000000
1593	0.000000	1593	0.000000
1594	0.000000	1594	0.000000
1595	0.005000	1595	0.000000
1596	0.000000	1596	12.84870
1597	0.002896	1597	0.000000
1598	0.007739	1598	0.000000
1599	0.000000	1599	5.143180
1600	0.002261	1600	0.000000
1601	0.002201 0.003218	1601	0.000000
1602	0.005210 0.005479	1602	0.000000
1603	0.003479 0.000000	1603	0.000000
1604	0.000000	1604	0.000000
1605	0.000000	1605	0.000000
1606	0.000000	1606	0.000000
1607	0.002261	1607	0.000000
1608	0.002201 0.004521	1608	0.000000
1609	0.005479	1609	0.000000
1610	0.000768	1610	0.000000
1611	0.011537	1611	0.000000
1612	0.012305	1612	0.000000
1613	0.010768	1613	0.000000
1614	0.011537	1614	0.000000
1615	0.000000	1615	0.000000
1616	0.000000	1616	0.000000
1617	0.000000	1617	0.000000
1618	0.000000	1618	0.000000
1619	0.000768	1619	0.000000
1620	0.001537	1620	0.000000
1621	0.000000	1621	8.576084
1622	0.007739	1622	0.000000
1623	0.000000	1623	5.143180
1624	0.002261	1624	0.000000
1625	0.003218	1625	0.000000
1626	0.005479	1626	0.000000
1627	0.000000	1627	0.000000
1628	0.000000	1628	0.000000
1629	0.000000	1629	0.000000

Coordenada	x Valor x	Coordenada z	Valor z
1630	0.000000	1630	0.000000
1631	0.002261	1631	0.000000
1632	0.004521	1632	0.000000
1633	0.005479	1633	0.000000
1634	1634.838900	1634	0.000000
1635	2043.911100	1635	0.000000
1636	2452.993300	1636	0.000000
1637	2860.595600	1637	0.000000
1638	3269.667800	1638	0.000000
1639	0.000000	1639	0.000000
1640	0.000000	1640	0.000000
1641	0.000000	1641	0.000000
1642	0.000000	1642	0.000000
1643	409.072200	1643	0.000000
1644	818.154400	1644	0.000000
1645	1225.756700	1645	0.000000
1646	0.007739	1646	0.000000
1647	0.000000	1647	5.143180
1648	0.002261	1648	0.000000
1649	0.003218	1649	0.000000
1650	0.005479	1650	0.000000
1651	0.000000	1651	0.000000
1652	0.000000	1652	0.000000
1653	0.000000	1653	0.000000
1654	0.000000	1654	0.000000
1655	0.002261	1655	0.000000
1656	0.002201 0.004521	1656	0.000000
1657	0.005479	1657	0.000000
1658	0.007739	1658	0.000000
1659	0.000000	1659	0.428941
1660	0.002261	1660	0.000000
1661	0.002201	1661	0.000000
1662	0.005219 0.005479	1662	0.000000
1663	0.000000	1663	0.000000
1664	0.000000	1664	0.000000
1665	0.000000	1665	0.000000
1666	0.000000	1666	0.000000
1667	0.002261	1667	0.000000
1668	0.002201 0.004521	1668	0.000000
1669	0.004321 0.005479	1669	0.000000
1670	-0.000000	1670	0.000000
1671	-0.000000	1671	0.000000
1671 1672	-0.000000	1671 1672	0.000000
1673	-0.000000	1673	0.000000
	-0.000000		0.000000
1674 1675		1674	
1675 1676	0.000000	1675	0.000000
1676 1677	0.000000	1676	0.000000
1677 1679	0.000000	1677	0.000000
1678	0.000000	1678	0.000000

Coordenada x	Valor x	Coordenada z	Valor z
1679	-0.000000	1679	0.000000
1680	-0.000000	1680	0.000000
1681	0.000000	1681	6.595320

3 Variáveis Duais (Multiplicadores de Lagrange)

Tabela 2: Variáveis duais do problema ganges

Coordenada y	Valor y
1	-0.000000
2	-0.000000
3	-0.000000
4	-0.000000
5	-0.000000
6	-0.000000
7	-0.000000
8	-0.000000
9	-0.000000
10	-0.000000
11	-0.000000
12	-0.000000
13	-0.000000
14	-0.000000
15	-0.000000
16	-0.000000
17	-0.000000
18	-0.000000
19	-0.000000
20	-0.000000
21	-0.000000
22	-0.000000
23	-0.000000
24	-0.000000
25	-0.000000
26	-0.000000
27	-0.000000
28	-0.000000
29	-0.000000
30	-0.000000
31	-0.000000
32	-0.000000
33	-0.000000
34	-0.000000
35	-0.000000
36	-0.000000
37	-0.000000
<u> </u>	

Coordenada y	Valor y
38	-0.000000
39	-0.000000
40	-0.000000
41	-0.000000
42	-0.000000
43	-0.000000
44	-0.000000
45	-0.000000
46	-0.000000
47	-0.000000
48	-0.000000
49	-0.000000
50	-0.000000
51	-0.000000
52	-0.000000
53	-0.000000
54	-0.000000
55	-0.000000
56	-0.000000
57	-0.000000
58	-0.000000
59	-0.000000
60	-0.000000
61	-0.000000
62	-0.000000
63	-0.000000
	-0.000000
64	
65	-0.000000
66	-0.000000
67	-0.000000
68	-0.000000
69	-0.000000
70	-0.000000
71	-0.000000
72	-0.000000
73	-0.000000
74	-0.000000
75	-0.000000
76	-0.000000
77	-0.000000
78	-0.000000
79 79	-0.000000
80	
00	-0.000000
01	-0.000000
81	
82	-0.000000
82 83	-0.000000 -0.000000
82 83 84	-0.000000 -0.000000 -0.000000
82 83	-0.000000 -0.000000

Coordenada	y Valor y
87	-0.000000
88	-0.000000
89	-0.000000
90	-0.000000
91	-0.000000
92	-0.000000
93	-0.000000
94	-0.000000
95	-0.000000
96	-0.000000
97	-0.000000
98	-0.000000
99	-0.000000
100	-0.000000
101	-0.000000
102	-0.000000
103	-0.000000
104	-0.000000
105	-0.000000
106	-0.000000
107	-0.000000
108	-0.000000
109	-0.000000
110	-0.000000
111	-0.000000
112	-0.000000
113	-0.000000
114	-0.000000
115	-0.000000
116	-0.000000
117	-0.000000
118	-0.000000
119	-0.000000
120	-0.000000
121	-0.000000
122	-0.000000
123	-0.000000
124	-0.000000
125	-0.000000
126	-0.000000
127	-0.000000
128	-0.000000
129	-0.000000
130	-0.000000
131	-0.000000
132	-0.000000
133	-0.000000
134	-0.000000
135	-0.000000

Coordenada y	Valor y
136	-0.000000
137	-0.000000
138	-0.000000
139	-0.000000
140	-0.000000
141	-0.000000
142	-0.000000
143	-0.000000
144	-0.000000
145	-0.000000
146	-0.000000
147	-0.000000
148	-0.000000
149	-0.000000
150	-0.000000
150 151	-0.000000
152	-0.000000
153	-0.000000
154	-0.000000
155	-0.000000
156	-0.000000
157	-0.000000
158	-0.000000
159	-0.000000
160	-0.000000
161	-0.000000
162	-0.000000
163	-0.000000
164	-0.000000
165	-0.000000
166	-0.000000
167	-0.000000
168	-0.000000
169	-0.000000
170	-0.000000
171	-0.000000
172	-0.000000
173	-0.000000
174	-0.000000
175	-0.000000
176	-0.000000
177	-0.000000
178	-0.000000
179	-0.000000
180	-0.000000
181	-0.000000
	-0.000000
182	
183	-0.000000
184	-0.000000
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Coordenada y	Valor y
185	-0.000000
186	-0.000000
187	-0.000000
188	-0.000000
189	-0.000000
190	-0.000000
191	-0.000000
192	-0.000000
193	-0.000000
194	-0.000000
195	-0.000000
196	-0.000000
197	-0.000000
198	-0.000000
199	-0.000000
200	-0.000000
201	-0.000000
202	-0.000000
203	-0.000000
204	-0.000000
	-0.000000
205	
206	-0.000000
207	-0.000000
208	-0.000000
209	-0.000000
210	-0.000000
211	-0.000000
212	-0.000000
213	-0.000000
214	-0.000000
215	-0.000000
216	-0.000000
217	-0.000000
218	-0.000000
219	-0.549390
220	-0.549390
221	-0.549390
222	-0.549390
223	-0.000000
224	-0.000000
225	-0.000000
226	-0.000000
227	-0.000000
228	-0.000000
229	-0.000000
230	-0.000000
231	-0.000000
232	-0.000000
233	-0.000000
Continua na próxi	

Coordenada y	Valor y
234	-0.000000
235	-0.000000
236	-0.000000
237	-0.000000
238	-0.000000
239	-0.000000
240	-0.000000
241	-0.000000
242	-0.000000
243	-0.000000
244	-0.000000
245	-0.000000
246	-0.000000
247	-0.000000
248	-0.000000
249	-0.000000
249 250	-0.000000
251	-0.000000
252	-0.000000
253	-0.000000
254	-0.000000
255	-0.000000
256	-0.000000
257	-0.000000
258	-0.000000
259	-0.000000
260	-0.000000
261	-0.000000
262	-0.000000
263	-0.000000
264	-0.000000
265	-0.000000
266	-0.000000
267	-0.000000
268	-0.000000
269	-0.000000
270	-0.000000
271	-0.000000
272	-0.000000
273	-0.000000
274	-0.000000
275	-0.000000
276	-0.000000
277	-0.000000
278	-0.000000
279	-0.000000
280	-0.000000
281	-0.000000
282	-0.000000
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Coordenada y	Valor y
283	-0.000000
284	-0.000000
285	-0.000000
286	-0.000000
287	-0.000000
288	-0.000000
289	-0.000000
290	-0.000000
291	-0.000000
292	-0.000000
293	-0.000000
294	-0.000000
295	-0.000000
296	-0.000000
297	-0.000000
	-0.000000
298	-0.000000
299	
300	-0.000000
301	-0.000000
302	-0.000000
303	-0.000000
304	-0.000000
305	-0.000000
306	-0.000000
307	-0.000000
308	-0.000000
309	-0.000000
310	-0.000000
311	-0.000000
312	-0.000000
313	-0.000000
314	-0.000000
315	-0.000000
316	-0.000000
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318	-0.000000
319	-0.000000
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321	-0.000000
322	-0.000000
323	-0.000000
324	-0.000000
325	-0.000000
326	-0.000000
327	-0.000000
328	-0.000000
329	-0.000000
330	-0.000000
331	-0.000000
Continua na próxi	

Coordenada y	Valor y
332	-0.000000
333	-0.000000
334	-0.000000
335	-0.000000
336	-0.000000
337	-0.000000
338	-0.000000
339	-0.000000
340	-0.657895
341	-0.657895
342	-0.000000
343	-0.000000
344	-0.000000
345	-0.000000
346	-0.000000
347	-0.000000
	-0.000000
348	
349	-0.000000
350	-0.000000
351	-0.000000
352	-0.000000
353	-0.000000
354	-0.000000
355	-0.000000
356	-0.000000
357	-0.000000
358	-0.000000
359	-0.000000
360	-0.000000
361	-0.000000
362	-0.000000
363	-0.000000
364	-0.000000
365	-0.000000
366	-0.000000
367	-0.000000
368	-0.000000
369	-0.000000
370	-0.000000
371	-0.000000
372	-0.000000
373	-0.000000
374	-0.000000
375	-0.000000
376	-0.000000
370 377	-0.000000
378	-0.000000
379	-0.000000
380	-0.000000
	-0.000000 ma página

Coordenada y	Valor y
381	-0.000000
382	-0.000000
383	-0.000000
384	-0.000000
385	-0.000000
386	-0.000000
387	-0.000000
388	-0.000000
389	-0.000000
390	-0.000000
391	-0.000000
392	-0.000000
393	-0.000000
394	-0.000000
395	-0.000000
396	-0.000000
397	-0.000000
398	-0.000000
399	-0.000000
400	-0.000000
401	-0.000000
402	-0.000000
403	-0.000000
404	-0.000000
405	-0.000000
406	-0.000000
407	-0.000000
408	-0.000000
409	-0.000000
410	-0.000000
411	-0.714388
412	-0.714388
413	-0.714388
414	-0.000000
415	-0.000000
416	-0.000000
417	-0.000000
418	-0.000000
419	-0.000000
420	-0.000000
421	0.375000
422	-0.375000
423	0.375000
424	-0.375000
425	0.375000
426	-1.089388
420 427	0.375000
427	-1.089388
429	0.375000
Continua na próxi	

Coordenada y	Valor y
430	-1.089388
431	0.375000
432	-0.375000
433	-0.000000
434	-0.000000
435	-0.000000
436	-0.000000
437	-0.000000
438	-0.000000
439	-0.000000
440	-0.000000
441	0.375000
442	-0.375000
443	0.375000
444	-0.375000
445	-0.000000
446	-0.000000
447	-0.000000
448	-0.000000
449	-0.000000
450	-0.000000
451	-0.000000
452	-0.000000
453	-0.000000
454	-0.000000
455	-0.000000
456	-0.000000
457	-0.000000
458	-0.714388
459	-0.714388
460	-0.714388
461	-0.714388
462	-0.000000
463	-0.000000
464	-0.000000
465	-0.000000
466	-0.000000
467	-0.000000
468	-0.000000
469	0.375000
470	-0.375000
471	0.375000
472	-1.089388
473	0.375000
474	-1.089388
475	0.375000
476	-1.089388
477	0.375000
477 478	-1.089388
	-1.009000 ima página

Coordenada y	Valor y
479	0.375000
480	-0.375000
481	-0.000000
482	-0.000000
483	-0.000000
484	-0.000000
485	-0.000000
486	-0.000000
487	-0.000000
488	-0.000000
489	0.375000
490	-0.375000
491	0.375000
492	-0.375000
493	-0.000000
494	-0.000000
495	-0.000000
496	-0.000000
497	-0.000000
498	-0.000000
499	-0.000000
500	-0.000000
501	-0.000000
502	-0.000000
503	-0.000000
504	-0.000000
505	-0.000000
506	-0.000000
507 508	-0.000000
509	-0.000000
510	-0.000000
511	-0.000000
512	-0.000000
513	-0.000000
514	-0.000000
515	-0.000000
516	-0.000000
517	-0.000000
518	-0.000000
519	-0.000000
520	-0.000000
521	-0.000000
522	-0.000000
523	-0.000000
524	-0.000000
525	-0.000000
526	-0.000000
527	-0.000000
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Coordenada ;	y Valor y
528	-0.000000
529	0.549107
530	-0.549107
531	0.549107
532	-0.549107
533	0.549107
534	-0.549107
535	0.549107
536	-0.549107
537	0.549107
538	-0.549107
539	0.549107
540	-0.549107
541	-0.000000
542	-0.000000
543	-0.000000
544	-0.000000
545	-0.000000
546	-0.000000
547	-0.000000
548	-0.000000
549	0.549107
550	-0.549107
551	0.549107
552	-0.549107
553	0.000000
554	-0.549107
555	-0.000000
556	-0.549107
557	-0.000000
558	-0.549107
559	-0.000000
560	-0.549107
561	-0.000000
562	-0.549107
563	-0.000000
564	-0.549107
565	-0.000000
566	-0.000000
567	-0.000000
568	-0.000000
569	-0.000000
570	-0.000000
571	-0.000000
572	-0.000000
573	-0.000000
574	-0.549107
575	-0.000000
576	-0.549107
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Coordenada y	Valor y
577	-0.000000
578	-0.549107
579	-0.000000
580	-0.549107
581	-0.000000
582	-0.549107
583	-0.000000
584	-0.549107
585	-0.000000
586	-0.549107
587	-0.000000
588	-0.549107
589	-0.000000
590	-0.000000
591	-0.000000
592	-0.000000
593	-0.000000
594	-0.000000
595	-0.000000
596	-0.000000
597	-0.000000
598	-0.549107
599	-0.000000
600	-0.549107
601	-0.714388
602	-0.714388
603	-0.714388
604	-0.714388
605	-0.714388
606	-0.000000
607	-0.000000
608	-0.000000
609	-0.000000
610	-0.000000
611	-0.000000
612	-0.714388
613	-0.714388
614	-0.714388
615	-0.714388
616	-0.714388
617	-0.714388
618	-0.000000
619	-0.000000
620	-0.000000
621	-0.000000
622	-0.000000
623	-0.000000
624	-0.714388
625	-0.714388
Continua na próxi	

Coordenada y	Valor y
626	-0.714388
627	-0.714388
628	-0.714388
629	-0.714388
630	-0.000000
631	-0.000000
632	-0.000000
633	-0.000000
634	-0.000000
635	-0.000000
636	-0.714388
637	-0.714388
638	-0.714388
639	-0.714388
640	-0.714388
641	-0.714388
642	-0.000000
643	-0.000000
644	-0.000000
645	-0.000000
646	-0.000000
647	-0.000000
648	-0.714388
649	-0.714388
650	-0.714388
651	-0.714388
652	-0.714388
653	-0.714388
654	-0.000000
655	-0.000000
656	-0.000000
657	-0.000000
658	-0.000000
659	-0.000000
660	-0.714388
661	-0.000000
662	-0.000000
663	-0.549390
664	-0.549390
665	-0.549390
666	-0.549390
667	-0.000000
668	-0.000000
669	-0.000000
670	-0.000000
671	-0.000000
672	-0.000000
673	0.549390
674	0.549390 0.549390
Continua na próxi	

Coordenada y	Valor y
675	0.549390
676	0.549390
677	0.549390
678	0.549390
679	0.549390
680	0.549390
681	0.549390
682	0.549390
683	0.549390
684	0.549390
685	0.549390
686	0.549390
687	0.549390
688	0.549390 0.549390
689	
	0.549390
690	0.549390
691	0.549390
692	0.549390
693	0.549390
694	0.549390
695	0.549390
696	0.549390
697	0.549390
698	0.549390
699	0.549390
700	0.549390
701	0.549390
702	0.549390
703	0.549390
704	0.549390
705	0.549390
706	0.549390
707	0.549390
708	0.549390
709	0.549390
710	0.549390
711	0.549390
712	0.549390
713	0.549390
714	0.549390
715	0.549390
716	0.549390
717	0.549390
718	0.549390
719	0.549390
720	0.549390 0.549390
720 721	0.549390 0.549390
721	0.549390 0.549390
723	0.549390 0.549390
Continua na próxi	

Coordenada y	Valor y
724	0.549390
725	0.549390
726	0.549390
727	0.549390
728	0.549390
729	0.549390
730	0.549390
731	0.549390
732	0.549390
733	0.549390
734	0.549390
735	0.549390
736	0.549390
737	0.549390 0.549390
738	
	0.549390
739	0.549390
740	0.549390
741	0.549390
742	0.549390
743	0.549390
744	0.549390
745	0.819403
746	0.819403
747	0.819403
748	0.819403
749	0.819403
750	0.819403
751	0.819403
752	0.819403
753	0.819403
754	0.819403
755	0.819403
756	0.819403
757	0.746269
758	0.746269
759	0.746269
760	0.746269
761	0.746269
762	0.746269
763	0.746269
764	0.746269
765	0.746269
766	0.746269
767	0.746269
768	0.746269
769	0.740209 0.549390
770 770	0.549390 0.549390
770 771	0.549390 0.549390
772	0.549390 0.549390
Continua na próxi	

Coordenada y	Valor y
773	0.549390
774	0.549390
775	0.549390
776	0.549390
777	0.549390
778	0.549390
779	0.549390
780	0.549390
781	0.549390
782	0.549390
783	0.549390
784	0.549390 0.549390
785	0.549390 0.549390
786	0.549390 0.549390
787	
	0.549390
788 780	0.549390
789	0.549390
790	0.549390
791 7 93	0.549390
792	0.549390
793	-0.000000
794	-0.000000
795	-0.000000
796	-0.000000
797	-0.000000
798	-0.000000
799	-0.000000
800	-0.000000
801	-0.000000
802	-0.000000
803	-0.000000
804	-0.000000
805	0.549390
806	0.549390
807	0.549390
808	0.549390
809	0.549390
810	0.549390
811	0.549390
812	0.549390
813	0.549390
814	0.549390
815	0.549390
816	0.549390
817	0.549390
818	0.549390 0.549390
819	0.549390 0.549390
820	0.549390 0.549390
821	0.549390 0.549390
Continua na próxi	

Coordenada y	Valor y
822	0.549390
823	0.549390
824	0.549390
825	0.549390
826	0.549390
827	0.549390
828	0.549390
829	0.549390
830	0.549390
831	0.549390
832	0.549390
833	0.549390
834	0.549390
835	0.549390
836	0.549390
837	0.549390
838	0.549390
839	0.549390
840	0.549390
841	0.657895
842	0.657895
843	0.657895
844	0.657895
845	0.657895
846	0.657895
847	0.657895
848	0.657895
849	0.657895
850	0.657895
851	0.657895
852	0.657895
853	0.819403
854	0.819403
855	0.819403
856	0.819403
857	0.819403
858	0.819403
859	0.819403
860	0.819403
861	0.819403
862	0.819403
863	0.819403
864	0.819403
865	0.714388
866	0.714388
867	0.714388
868	0.714388
869	0.714388
870	0.714388
<u> </u>	

Coordenada y	Valor y
871	0.714388
872	0.714388
873	0.714388
874	0.714388
875	0.714388
876	0.714388
877	0.714388
878	0.714388
879	0.714388
880	0.714388
881	0.714388
882	0.714388
883	0.714388
884	
	0.714388
885	0.714388
886	0.714388
887	0.714388
888	0.714388
889	0.714388
890	0.714388
891	0.714388
892	0.714388
893	0.714388
894	0.714388
895	0.714388
896	0.714388
897	0.714388
898	0.714388
899	0.714388
900	0.714388
901	0.714388
902	0.714388
903	0.714388
904	0.714388
905	0.714388
906	0.714388
907	0.714388
908	0.714388
909	0.714388
910	0.714388
911	0.714388
912	0.714388
913	0.714388
914	0.714388
915	0.714388
916	0.714388
917	0.714388
918	0.714388
919	0.714388
0.10	

Coordenada y	Valor y
920	0.714388
921	0.714388
922	0.714388
923	0.714388
924	0.714388
925	-0.000000
926	-0.000000
927	-0.000000
928	-0.000000
929	-0.000000
930	-0.000000
931	-0.000000
932	-0.000000
933	-0.000000
934	-0.000000
935	-0.000000
936	-0.000000
937	0.714388
938	0.714388
939	0.714388
939 940	0.714388
941	0.714388
941	0.714388 0.714388
943	0.714388 0.714388
943 944	0.714388 0.714388
$945 \\ 946$	0.714388 0.714388
947	0.714388
948 949	0.714388
	0.714388
950	0.714388
951	0.714388
952	0.714388
953	0.714388
954	0.714388
955	0.714388
956	0.714388
957	0.714388
958	0.714388
959	0.714388
960	0.714388
961	0.549390
962	0.549390
963	0.549390
964	0.549390
965	0.549390
966	0.549390
967	0.549390
968	0.549390
Continua na próxi	ima nácina

Coordenada y	Valor y
969	0.549390
970	0.549390
971	0.549390
972	0.549390
973	-0.000000
974	-0.000000
975	-0.000000
976	-0.000000
977	-0.000000
978	-0.000000
979	-0.000000
980	-0.000000
981	-0.000000
982	-0.000000
983	-0.000000
984	-6.595320
985	-0.000000
986	-0.000000
987	-0.000000
988	-0.000000
989	-0.000000
990	-0.000000
991	-0.000000
992	-0.000000
993	-0.000000
994	-0.000000
995	-0.000000
996	-6.595320
997	-0.000000
998	-0.000000
999	-0.000000
1000	-0.000000
1001	-0.000000
1002	-0.000000
1003	-0.000000
1004	-0.000000
1005	-0.000000
1006	-0.000000
1007	-0.000000
1008	-6.595320
1009	-0.000000
1010	-0.000000
1011	-0.000000
1012	-0.000000
1013	-0.000000
1014	-0.000000
1015	-0.000000
1016	-0.000000
1017	-0.000000
Continua na próx	ima página

Coordenada y	Valor y
1018	-0.000000
1019	-0.000000
1020	-6.595320
1021	-0.000000
1022	-0.000000
1023	-0.000000
1024	-0.000000
1025	-0.000000
1026	-0.000000
1027	-0.000000
1028	-0.000000
1029	-0.000000
1030	-0.000000
1031	-9.881118
1032	-0.000000
1032	-0.000000
1034	-0.000000
1034	-0.000000
1036	-0.000000
1037	-0.000000
1038	-0.000000
1039	-0.000000
1040	-0.000000
1041	-0.000000
1042	-19.762237
1043	-0.000000
1044	-0.000000
1045	-0.000000
1046	-0.000000
1047	-0.000000
1048	-0.000000
1049	-0.000000
1050	-0.000000
1051	-0.000000
1052	-0.000000
1053	-0.000000
1054	-29.474945
1055	-0.000000
1056	-0.000000
1057	-0.000000
1058	-5.372705
1059	-0.000000
1060	-0.000000
1061	-0.000000
1062	-0.000000
1063	-0.000000
1064	-0.000000
1065	-0.000000
1066	-0.000000
Continua na próx	ima página

Coordenada y	Valor y
1067	-0.000000
1068	-0.000000
1069	-0.000000
1070	-0.000000
1071	-0.000000
1072	-0.000000
1073	-0.000000
1074	-0.000000
1075	-0.000000
1076	-0.000000
1077	-0.000000
1078	-19.762237
1079	-0.000000
1080	-0.000000
1081	-0.000000
1082	-0.000000
1083	-0.000000
1084	-0.000000
1085	-0.000000
1086	-0.000000
1087	-0.000000
1087	-0.000000
1089	-0.000000
1099	-0.000000
1090	-9.881118
1091	-0.000000
1092	-0.000000
1093	-0.000000
1094	-0.000000
1096	-0.000000
1090	-0.000000
1097	-0.000000
1099 1100	-0.000000 -0.000000
1100	-0.000000
1101	-0.000000
	-0.000000
1103	
1104	-0.000000
1105	-0.000000
1106	-0.000000
1107	-0.000000
1108	-0.000000
1109	-0.000000
1110	-0.000000
1111	-0.000000
1112	-0.000000
1113	-0.000000
1114	-0.000000
1115	-0.000000
Continua na próx	ima página

<u> </u>	X7.1
Coordenada y	Valor y
1116	-6.595320
1117	-0.000000
1118	-3.955293
1119	-0.000000
1120	-0.000000
1121	-0.000000
1122	-0.000000
1123	-0.000000
1124	-0.000000
1125	-0.000000
1126	-0.000000
1127	-0.000000
1128	-0.000000
1129	-0.000000
1130	-0.000000
1131	-0.000000
1132	-0.000000
1133	-0.000000
1134	-0.000000
1135	-0.000000
1136	-0.000000
1137	-0.000000
1138	-19.762237
1139	-0.000000
1140	-0.000000
1141	-0.000000
1142	-0.000000
1143	-0.000000
1144	-0.000000
1145	-0.000000
1146	-0.000000
1147	-0.000000
1148	-0.000000
1149	-0.000000
1150	-0.000000
1151	-11.832639
1152	-0.000000
1153	-0.000000
1154	-0.000000
1155	-0.000000
1156	-0.000000
1157	-0.000000
1158	-0.000000
1159	-0.000000
1160	-0.000000
1161	-0.000000
1162	-0.000000
1163	-0.000000
1164	-9.836776

Coordenada y	Valor y
1165	-0.000000
1166	-5.143180
1167	-0.000000
1168	-0.000000
1169	-0.000000
1170	-0.000000
1171	-0.000000
1172	-0.000000
1173	-0.000000
1174	-0.000000
1175	-0.000000
1176	-0.000000
1177	-0.000000
1178	-0.000000
1179	-0.000000
1180	-0.000000
1181	-0.000000
1182	-0.000000
1183	-0.000000
1184	-0.000000
1185	-0.000000
1186	-0.000000
1187	-12.848701
1188	-0.000000
1189	-0.000000
1190	-5.143180
1191	-0.000000
1192	-0.000000
1193	-0.000000
1194	-0.000000
1195	-0.000000
1196	-0.000000
1197	-0.000000
1198	-0.000000
1199	-0.000000
1200	-0.000000
1201	-0.000000
1202	-0.000000
1202	-0.000000
1204	-0.000000
1204 1205	-0.000000
1206	-0.000000
1207	-0.000000
1207	-0.000000
1209	-0.000000
1210	-0.000000
1210	-0.000000
1211	-8.576084
1213	-0.000000
Continua na próxi	

Coordenada y	Valor y
1214	-5.143180
1215	-0.000000
1216	-0.000000
1217	-0.000000
1218	-0.000000
1219	-0.000000
1220	-0.000000
1221	-0.000000
1222	-0.000000
1223	-0.000000
1224	-0.000000
1225	-0.000000
1226	-0.000000
1227	-0.000000
1228	-0.000000
1229	-0.000000
1230	-0.000000
1231	-0.000000
1232	-0.000000
1233	-0.000000
1234	-0.000000
1235	-0.000000
1236	-0.000000
1237	-0.000000
1238	-5.143180
1239	-0.000000
1240	-0.000000
1241	-0.000000
1242	-0.000000
1243	-0.000000
1244	-0.000000
1245	-0.000000
1246	-0.000000
1247	-0.000000
1248	-0.000000
1249	-0.714388
1250	-1.143329
1250 1251	-0.714388
1251 1252	-0.714388
1252 1253	-0.714388
1253 1254	-0.000000
	-0.000000
1255	
1256	-0.000000
1257	-0.000000
1258	-0.000000
1259	-0.000000
1260	-0.714388
1261	-0.000000
1262	-0.000000
Continua na próxima página	

1263 -0.000000 1264 -0.000000 1265 -0.000000 1266 -0.000000 1267 -0.000000 1268 -0.000000 1270 -0.000000 1271 -0.000000 1272 -6.595320 1273 -0.000000 1274 -0.000000 1275 -0.000000 1276 -0.000000 1278 -0.000000 1279 -0.000000 1281 -0.000000 1282 -0.000000 1283 -0.000000 1284 -0.000000 1285 -0.000000 1286 -0.000000 1287 -0.000000 1289 -0.000000 1290 -0.000000 1291 -0.000000 1292 -0.000000 1293 -0.000000 1294 -0.000000 1295 -0.000000 1296 -0.000000	Coordenada y	Valor y
1264 -0.000000 1265 -0.000000 1266 -0.000000 1267 -0.000000 1268 -0.000000 1269 -0.000000 1270 -0.000000 1271 -0.000000 1272 -6.595320 1273 -0.000000 1274 -0.000000 1275 -0.000000 1277 -0.000000 1278 -0.000000 1279 -0.000000 1281 -0.000000 1282 -0.000000 1283 -0.000000 1284 -0.000000 1285 -0.000000 1286 -0.000000 1287 -0.000000 1288 -0.000000 1290 -0.000000 1291 -0.000000 1292 -0.000000 1293 -0.000000 1294 -0.000000 1295 -0.000000 1296 -0.000000 1297 -0.000000 1298 -1250.00000	1263	-0.000000
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-0.000000
1267 -0.000000 1268 -0.000000 1269 -0.000000 1270 -0.000000 1271 -0.000000 1272 -6.595320 1273 -0.000000 1274 -0.000000 1275 -0.000000 1276 -0.000000 1277 -0.000000 1278 -0.000000 1280 -0.000000 1281 -0.000000 1282 -0.000000 1283 -0.000000 1284 -0.000000 1285 -0.000000 1286 -0.000000 1287 -0.000000 1288 -0.000000 1290 -0.000000 1291 -0.000000 1292 -0.000000 1293 -0.000000 1294 -0.000000 1295 -0.000000 1296 -0.000000 1297 -0.000000 1298 -1250.00000 1299 -1250.00000 1300 -1250.0	1265	-0.000000
1268 -0.000000 1269 -0.000000 1270 -0.000000 1271 -0.000000 1272 -6.595320 1273 -0.000000 1274 -0.000000 1275 -0.000000 1276 -0.000000 1277 -0.000000 1278 -0.000000 1280 -0.000000 1281 -0.000000 1282 -0.000000 1283 -0.000000 1284 -0.000000 1285 -0.000000 1286 -0.000000 1287 -0.000000 1288 -0.000000 1290 -0.000000 1291 -0.000000 1292 -0.000000 1293 -0.000000 1294 -0.000000 1295 -0.000000 1296 -0.000000 1297 -0.000000 1298 -1250.00000 1300 -1250.00000 1301 -1250.00000	1266	-0.000000
1269 -0.000000 1270 -0.000000 1271 -0.000000 1272 -6.595320 1273 -0.000000 1274 -0.000000 1275 -0.000000 1276 -0.000000 1278 -0.000000 1279 -0.000000 1280 -0.000000 1281 -0.000000 1282 -0.000000 1283 -0.000000 1284 -0.000000 1285 -0.000000 1287 -0.000000 1288 -0.000000 1290 -0.000000 1291 -0.000000 1292 -0.000000 1293 -0.000000 1294 -0.000000 1295 -0.000000 1296 -0.000000 1297 -0.000000 1298 -1250.00000 1300 -1250.00000 1301 -1250.00000	1267	-0.000000
1269 -0.000000 1270 -0.000000 1271 -0.000000 1272 -6.595320 1273 -0.000000 1274 -0.000000 1275 -0.000000 1276 -0.000000 1278 -0.000000 1279 -0.000000 1280 -0.000000 1281 -0.000000 1282 -0.000000 1283 -0.000000 1284 -0.000000 1285 -0.000000 1287 -0.000000 1288 -0.000000 1290 -0.000000 1291 -0.000000 1292 -0.000000 1293 -0.000000 1294 -0.000000 1295 -0.000000 1296 -0.000000 1297 -0.000000 1298 -1250.00000 1300 -1250.00000 1301 -1250.00000	1268	-0.000000
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4 Observações

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