

Solução do Problema pilotnov - Solver HiGHS

Análise Computacional

17 de setembro de 2025

1 Informações do Problema

Informações do Problema:

- Nome: pilotnov
- Número de Variáveis: 2172
- Número de Restrições: 975
- Inviabilidade Primal: 1.634e-13
- Inviabilidade Dual: 0.000e+00
- Valor Primal: -4.497e+03
- Valor Dual: 4.962e+01
- Gap: -2.248e-20
- Número de Iterações: 27

2 Variáveis Primais e Custos Reduzidos

Tabela 1: Variáveis primais e custos reduzidos do problema pilotnov

Coordenada x	Valor x	Coordenada z	Valor z
1	0.169000	1	0.000000
2	0.000000	2	0.000000
3	2.916958	3	0.000000
4	0.000000	4	0.000000
5	1.646579	5	0.000000
6	13.000000	6	0.000000
7	0.000000	7	0.000000
8	0.000000	8	0.000000
9	0.000000	9	0.000000
10	0.000000	10	0.000000
11	600.000000	11	0.000000
12	125.000000	12	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
13	0.000000	13	0.000000
14	34.004071	14	0.000000
15	0.000000	15	0.000000
16	0.173448	16	0.000000
17	0.255460	17	0.000000
18	0.329660	18	0.000000
19	0.000000	19	0.000000
20	0.000000	20	0.000000
21	0.284040	21	0.000000
22	0.000000	22	0.000000
23	-0.000000	23	0.000000
24	-0.000000	24	0.000000
25	-0.000000	25	0.000000
26	0.000000	26	0.000000
27	125.000000	27	0.000000
28	0.000000	28	0.000000
29	0.153454	29	0.000000
30	0.000000	30	0.000000
31	420.000000	31	0.000000
32	17.003316	32	0.000000
33	0.000000	33	0.000000
34	0.009576	34	0.000000
35	0.000000	35	0.000000
36	0.000000	36	0.000000
37	26.300000	37	0.000000
38	1.798562	38	0.000000
39	4.161119	39	0.000000
40	0.000000	40	0.000000
41	2.906631	41	0.000000
42	0.000000	42	0.000000
43	0.000000	43	0.000000
44	0.000000	44	0.000000
45	315.000000	45	0.000000
46	29.858552	46	0.000000
47	0.000000	47	0.000000
48	0.055138	48	0.000000
49	0.000000	49	0.000000
50	0.000000	50	0.000000
51	0.003931	51	0.000000
52	168.000000	52	0.000000
53	17.075918	53	0.000000
54	17.997952	54	0.000000
55	63.818923	55	0.000000
56	117.424427	56	0.000000
57	0.000000	57	0.000000
58	38.539900	58	0.000000
59	0.000000	59	0.000000
60	4.731442	60	0.000000
61	0.000000	61	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
62	0.000000	62	0.000000
63	0.000000	63	0.000000
64	2.392480	64	0.000000
65	0.000000	65	0.000000
66	24.012581	66	0.000000
67	0.000000	67	0.000000
68	3.386589	68	0.000000
69	0.000000	69	0.000000
70	0.039120	70	0.000000
71	0.000000	71	0.000000
72	0.000000	72	0.000000
73	0.000000	73	0.000000
74	0.000000	74	0.000000
75	0.541667	75	0.000000
76	5.416665	76	0.000000
77	0.000000	77	0.000000
78	37.609500	78	0.000000
79	2.000000	79	0.000000
80	1.500000	80	0.000000
81	0.000000	81	0.000000
82	0.000000	82	0.000000
83	0.000000	83	0.000000
84	0.000000	84	0.000000
85	10.913214	85	0.000000
86	0.000000	86	0.000000
87	0.000000	87	0.000000
88	0.000000	88	0.000000
89	0.000000	89	0.000000
90	0.000000	90	0.000000
91	0.000000	91	0.000000
92	0.000000	92	0.000000
93	0.000000	93	0.000000
94	0.000000	94	0.000000
95	14.435383	95	0.000000
96	22.956145	96	0.000000
97	14.755502	97	0.000000
98	11.141634	98	0.000000
99	3.938419	99	0.000000
100	3.487799	100	0.000000
101	-0.000000	101	0.000000
102	0.450620	102	0.000000
103	85.294386	103	0.000000
104	102.584196	104	0.000000
105	179.536320	105	0.000000
106	126.061068	106	0.000000
107	32.740148	107	0.000000
108	315.980696	108	0.000000
109	155.289087	109	0.000000
110	0.235464	110	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
111	0.000000	111	0.000000
112	4.064127	112	0.000000
113	0.000000	113	0.000000
114	13.035873	114	0.000000
115	116.302710	115	0.000000
116	0.000000	116	0.000000
117	0.000000	117	0.000000
118	0.000000	118	0.000000
119	0.000000	119	0.000000
120	150.330365	120	0.000000
121	261.000000	121	0.000000
122	0.000000	122	0.000000
123	61.079924	123	0.000000
124	0.000000	124	0.000000
125	-0.000000	125	0.000000
126	1.575541	126	0.000000
127	0.233437	127	0.000000
128	0.000010	128	0.000000
129	0.000000	129	0.000000
130	0.284040	130	0.000000
131	0.000010	131	0.000000
132	0.000010	132	0.000000
133	0.000010	133	0.000000
134	0.000010	134	0.000000
135	127.825610	135	0.000000
136	133.174390	136	0.000000
137	0.000000	137	0.000000
138	0.344149	138	0.000000
139	0.000000	139	0.000000
140	588.000000	140	0.000000
141	22.255572	141	0.000000
142	0.000000	142	0.000000
143	0.000000	143	0.000000
144	0.027582	144	0.000000
145	0.000000	145	0.000000
146	23.670000	146	0.000000
147	7.785976	147	0.000000
148	0.000000	148	0.000000
149	0.164266	149	0.000000
150	5.000000	150	0.000000
151	0.175808	151	0.000000
152	0.000000	152	0.000000
153	0.000000	153	0.000000
154	441.000000	154	0.000000
155	61.615816	155	0.000000
156	0.000000	156	0.000000
157	0.000000	157	0.000000
158	0.084216	158	0.000000
159	0.000000	159	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
160	0.000000	160	0.000000
161	112.478963	161	0.000000
162	13.222503	162	0.000000
163	16.409762	163	0.000000
164	52.306852	164	0.000000
165	185.116170	165	0.000000
166	0.000000	166	0.000000
167	0.000000	167	0.000000
168	0.000000	168	0.000000
169	0.000000	169	0.000000
170	0.176841	170	0.000000
171	0.000000	171	0.000000
172	0.000000	172	0.000000
173	20.952130	173	0.000000
174	0.000000	174	0.000000
175	115.157187	175	0.000000
176	0.000000	176	0.000000
177	8.105040	177	0.000000
178	0.000000	178	0.000000
179	0.000000	179	0.000000
180	0.000000	180	0.000000
181	0.080197	181	0.000000
182	0.000000	182	0.000000
183	0.000000	183	0.000000
184	0.000000	184	0.000000
185	22.960837	185	0.000000
186	0.000000	186	0.000000
187	13.965725	187	0.000000
188	0.000000	188	0.000000
189	1.621462	189	0.000000
190	0.000000	190	0.000000
191	0.000000	191	0.000000
192	0.000000	192	0.000000
193	0.000000	193	0.000000
194	1.754400	194	0.000000
195	0.000000	195	0.000000
196	0.000000	196	0.000000
197	0.000000	197	0.000000
198	0.000000	198	0.000000
199	0.000000	199	0.000000
200	0.000000	200	0.000000
201	0.000000	201	0.000000
202	0.000000	202	0.000000
203	0.000000	203	0.000000
204	12.189531	204	0.000000
205	41.235050	205	0.000000
206	11.753589	206	0.000000
207	21.413307	207	0.000000
208	1.814765	208	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
209	0.873870	209	0.000000
210	0.460806	210	0.000000
211	0.480088	211	0.000000
212	62.452581	212	0.000000
213	222.540238	213	0.000000
214	240.380147	214	0.000000
215	239.814749	215	0.000000
216	45.089505	216	0.000000
217	481.697214	217	0.000000
218	322.783587	218	0.000000
219	0.447074	219	0.000000
220	0.000000	220	0.000000
221	7.716546	221	0.000000
222	0.000000	222	0.000000
223	9.383454	223	0.000000
224	3022.509544	224	0.000000
225	0.000000	225	0.000000
226	0.000000	226	0.000000
227	0.000000	227	0.000000
228	0.000000	228	0.000000
229	733.487764	229	0.000000
230	411.000000	230	0.000000
231	0.000000	231	0.000000
232	90.056309	232	0.000000
233	0.000010	233	0.000000
234	1.182668	234	0.000000
235	1.468597	235	0.000000
236	0.000000	236	0.000000
237	0.000010	237	0.000000
238	0.082000	238	0.000000
239	0.278780	239	0.000000
240	0.000000	240	0.000000
241	0.000300	241	0.000000
242	0.000010	242	0.000000
243	0.000010	243	0.000000
244	179.226513	244	0.000000
245	231.773487	245	0.000000
246	0.000000	246	0.000000
247	0.464588	247	0.000000
248	0.000000	248	0.000000
249	864.000000	249	0.000000
250	16.272056	250	0.000000
251	0.000000	251	0.000000
252	0.000000	252	0.000000
253	0.000000	253	0.000000
254	0.050466	254	0.000000
255	21.944971	255	0.000000
256	7.183441	256	0.000000
257	6.000000	257	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
258	1.880676	258	0.000000
259	5.000000	259	0.000000
260	0.099093	260	0.000000
261	0.000000	261	0.000000
262	0.000000	262	0.000000
263	648.000000	263	0.000000
264	89.793218	264	0.000000
265	0.315673	265	0.000000
266	0.000000	266	0.000000
267	0.000000	267	0.000000
268	0.000000	268	0.000000
269	0.000000	269	0.000000
270	107.982266	270	0.000000
271	14.011441	271	0.000000
272	16.500000	272	0.000000
273	75.135748	273	0.000000
274	212.192867	274	0.000000
275	3.271854	275	0.000000
276	0.000000	276	0.000000
277	3.371679	277	0.000000
278	0.000000	278	0.000000
279	0.000000	279	0.000000
280	0.000000	280	0.000000
281	0.000000	281	0.000000
282	31.646976	282	0.000000
283	0.000000	283	0.000000
284	205.680874	284	0.000000
285	0.000000	285	0.000000
286	17.063950	286	0.000000
287	0.000000	287	0.000000
288	0.000000	288	0.000000
289	0.000000	289	0.000000
290	0.000000	290	0.000000
291	0.016706	291	0.000000
292	0.002539	292	0.000000
293	0.000000	293	0.000000
294	22.623355	294	0.000000
295	0.000000	295	0.000000
296	29.000000	296	0.000000
297	0.000000	297	0.000000
298	2.500000	298	0.000000
299	0.000000	299	0.000000
300	0.000000	300	0.000000
301	0.000000	301	0.000000
302	0.000000	302	0.000000
303	1.960800	303	0.000000
304	0.000000	304	0.000000
305	0.000000	305	0.000000
306	0.000000	306	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
307	0.000000	307	0.000000
308	0.000000	308	0.000000
309	0.000000	309	0.000000
310	0.000000	310	0.000000
311	0.000000	311	0.000000
312	0.000000	312	0.000000
313	12.553248	313	0.000000
314	60.797004	314	0.000000
315	12.438031	315	0.000000
316	31.058148	316	0.000000
317	5.745402	317	0.000000
318	4.263763	318	0.000000
319	0.646104	319	0.000000
320	0.835534	320	0.000000
321	90.539345	321	0.000000
322	341.160592	322	0.000000
323	365.845390	323	0.000000
324	331.480665	324	0.000000
325	399.456354	325	0.000000
326	702.672000	326	0.000000
327	405.200844	327	0.000000
328	0.854100	328	0.000000
329	0.000000	329	0.000000
330	14.741859	330	0.000000
331	0.000000	331	0.000000
332	115.143088	332	0.000000
333	4912.377006	333	0.000000
334	0.000000	334	0.000000
335	0.000000	335	0.000000
336	0.000000	336	0.000000
337	0.000000	337	0.000000
338	873.022454	338	0.000000
339	561.000000	339	0.000000
340	0.000000	340	0.000000
341	97.023616	341	0.000000
342	0.000000	342	0.000000
343	2.013270	343	0.000000
344	1.028874	344	0.000000
345	0.000000	345	0.000000
346	0.000010	346	0.000000
347	0.164000	347	0.000000
348	0.273520	348	0.000000
349	0.000000	349	0.000000
350	0.002100	350	0.000000
351	0.000010	351	0.000000
352	0.000010	352	0.000000
353	199.761189	353	0.000000
354	361.238811	354	0.000000
355	0.000000	355	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
356	0.000000	356	0.000000
357	0.375092	357	0.000000
358	550.374264	358	0.000000
359	25.387891	359	0.000000
360	0.000000	360	0.000000
361	0.240204	361	0.000000
362	0.000000	362	0.000000
363	0.000000	363	0.000000
364	24.268760	364	0.000000
365	11.180733	365	0.000000
366	0.000000	366	0.000000
367	4.044464	367	0.000000
368	5.000000	368	0.000000
369	0.000000	369	0.000000
370	0.449911	370	0.000000
371	0.000000	371	0.000000
372	952.000000	372	0.000000
373	59.040197	373	0.000000
374	0.000000	374	0.000000
375	0.000000	375	0.000000
376	0.000000	376	0.000000
377	0.000000	377	0.000000
378	0.145618	378	0.000000
379	127.718277	379	0.000000
380	14.544247	380	0.000000
381	17.000000	381	0.000000
382	86.116330	382	0.000000
383	223.023546	383	0.000000
384	0.000000	384	0.000000
385	0.000000	385	0.000000
386	0.000000	386	0.000000
387	0.000000	387	0.000000
388	0.000000	388	0.000000
389	0.000000	389	0.000000
390	0.000000	390	0.000000
391	193.296210	391	0.000000
392	0.000000	392	0.000000
393	900.721573	393	0.000000
394	0.000000	394	0.000000
395	34.179248	395	0.000000
396	0.000000	396	0.000000
397	0.000000	397	0.000000
398	0.000000	398	0.000000
399	0.000000	399	0.000000
400	0.177363	400	0.000000
401	0.005248	401	0.000000
402	15.990161	402	0.000000
403	159.901609	403	0.000000
404	0.000000	404	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
405	33.000000	405	0.000000
406	0.000000	406	0.000000
407	3.200000	407	0.000000
408	0.000000	408	0.000000
409	0.000000	409	0.000000
410	0.000000	410	0.000000
411	0.000000	411	0.000000
412	2.167200	412	0.000000
413	0.000000	413	0.000000
414	0.000000	414	0.000000
415	0.000000	415	0.000000
416	0.000000	416	0.000000
417	0.000000	417	0.000000
418	0.000000	418	0.000000
419	0.000000	419	0.000000
420	0.000000	420	0.000000
421	0.000000	421	0.000000
422	12.978475	422	0.000000
423	65.500631	423	0.000000
424	12.991252	424	0.000000
425	38.363655	425	0.000000
426	7.097261	426	0.000000
427	5.074878	427	0.000000
428	0.720131	428	0.000000
429	1.302252	429	0.000000
430	103.637814	430	0.000000
431	403.444108	431	0.000000
432	417.939745	432	0.000000
433	374.098487	433	0.000000
434	319.565155	434	0.000000
435	802.300630	435	0.000000
436	462.925336	436	0.000000
437	1.046100	437	0.000000
438	0.000000	438	0.000000
439	119.944219	439	0.000000
440	0.000000	440	0.000000
441	0.000000	441	0.000000
442	4910.206006	442	0.000000
443	0.000000	443	0.000000
444	0.000000	444	0.000000
445	0.000000	445	0.000000
446	0.000000	446	0.000000
447	0.000000	447	0.000000
448	2205.283013	448	0.000000
449	0.000000	449	0.000000
450	89.837255	450	0.000000
451	1.036800	451	0.000000
452	2.284675	452	0.000000
453	0.197739	453	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
454	0.000000	454	0.000000
455	0.000010	455	0.000000
456	0.820000	456	0.000000
457	0.273520	457	0.000000
458	0.148900	458	0.000000
459	0.003826	459	0.000000
460	0.000010	460	0.000000
461	0.000010	461	0.000000
462	217.238489	462	0.000000
463	1988.044525	463	0.000000
464	0.000000	464	0.000000
465	0.000000	465	0.000000
466	0.000000	466	0.000000
467	0.000000	467	0.000000
468	0.000000	468	0.000000
469	0.576756	469	0.000000
470	0.000000	470	0.000000
471	0.000000	471	0.000000
472	0.000000	472	0.000000
473	23.032864	473	0.000000
474	9.261079	474	0.000000
475	5.856254	475	0.000000
476	7.119413	476	0.000000
477	5.000000	477	0.000000
478	0.000000	478	0.000000
479	0.000000	479	0.000000
480	0.000000	480	0.000000
481	1398.000000	481	0.000000
482	103.449550	482	0.000000
483	0.348297	483	0.000000
484	0.000000	484	0.000000
485	0.000000	485	0.000000
486	0.337259	486	0.000000
487	0.000000	487	0.000000
488	114.037241	488	0.000000
489	15.167831	489	0.000000
490	15.759929	490	0.000000
491	91.104037	491	0.000000
492	227.355818	492	0.000000
493	0.000000	493	0.000000
494	0.000000	494	0.000000
495	0.000000	495	0.000000
496	0.000000	496	0.000000
497	0.000000	497	0.000000
498	0.000000	498	0.000000
499	118.292455	499	0.000000
500	187.584383	500	0.000000
501	0.000000	501	0.000000
502	1524.491005	502	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
503	0.000000	503	0.000000
504	55.142031	504	0.000000
505	0.000000	505	0.000000
506	0.000000	506	0.000000
507	0.000000	507	0.000000
508	0.000000	508	0.000000
509	0.325851	509	0.000000
510	0.008068	510	0.000000
511	0.000000	511	0.000000
512	152.605030	512	0.000000
513	0.000000	513	0.000000
514	32.000000	514	0.000000
515	2.000000	515	0.000000
516	3.500000	516	0.000000
517	0.000000	517	0.000000
518	0.000000	518	0.000000
519	0.656000	519	0.000000
520	0.000000	520	0.000000
521	2.373600	521	0.000000
522	0.000000	522	0.000000
523	0.000000	523	0.000000
524	0.000000	524	0.000000
525	0.000000	525	0.000000
526	0.000000	526	0.000000
527	0.000000	527	0.000000
528	0.000000	528	0.000000
529	0.000000	529	0.000000
530	0.000000	530	0.000000
531	12.845331	531	0.000000
532	60.649120	532	0.000000
533	14.086423	533	0.000000
534	47.321186	534	0.000000
535	7.949958	535	0.000000
536	-0.000000	536	0.000000
537	0.783136	537	0.000000
538	7.166822	538	0.000000
539	106.196461	539	0.000000
540	420.498222	540	0.000000
541	412.129057	541	0.000000
542	394.640256	542	0.000000
543	108.010580	543	0.000000
544	851.913149	544	0.000000
545	520.744036	545	0.000000
546	1.098616	546	0.000000
547	0.000000	547	0.000000
548	0.000000	548	0.000000
549	0.000000	549	0.000000
550	0.000000	550	0.000000
551	4802.574295	551	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
552	0.000000	552	0.000000
553	0.000000	553	0.000000
554	0.000000	554	0.000000
555	0.000000	555	0.000000
556	0.000000	556	0.000000
557	2999.999166	557	0.000000
558	3.680000	558	0.000000
559	84.922469	559	0.000000
560	3.849800	560	0.000000
561	2.366338	561	0.000000
562	0.227834	562	0.000000
563	0.000000	563	0.000000
564	0.000010	564	0.000000
565	1.600000	565	0.000000
566	0.268260	566	0.000000
567	0.595600	567	0.000000
568	0.000000	568	0.000000
569	0.000010	569	0.000000
570	0.000010	570	0.000000
571	447.483369	571	0.000000
572	2552.515797	572	0.000000
573	0.000000	573	0.000000
574	0.000000	574	0.000000
575	0.000000	575	0.000000
576	928.091950	576	0.000000
577	0.000000	577	0.000000
578	0.000000	578	0.000000
579	0.000000	579	0.000000
580	0.507646	580	0.000000
581	0.000000	581	0.000000
582	20.729578	582	0.000000
583	5.871748	583	0.000000
584	4.770629	584	0.000000
585	6.506578	585	0.000000
586	5.000000	586	0.000000
587	0.000000	587	0.000000
588	0.452233	588	0.000000
589	0.000000	589	0.000000
590	984.834900	590	0.000000
591	104.305170	591	0.000000
592	0.000000	592	0.000000
593	0.000000	593	0.000000
594	0.000000	594	0.000000
595	0.547767	595	0.000000
596	0.000000	596	0.000000
597	141.647635	597	0.000000
598	17.800000	598	0.000000
599	14.183936	599	0.000000
600	112.128823	600	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
601	229.088726	601	0.000000
602	0.000000	602	0.000000
603	0.000000	603	0.000000
604	4.283051	604	0.000000
605	0.000000	605	0.000000
606	0.000000	606	0.000000
607	0.000000	607	0.000000
608	96.277308	608	0.000000
609	164.737077	609	0.000000
610	0.000000	610	0.000000
611	1524.491005	611	0.000000
612	0.000000	612	0.000000
613	77.157178	613	0.000000
614	0.000000	614	0.000000
615	0.000000	615	0.000000
616	0.000000	616	0.000000
617	0.396971	617	0.000000
618	0.000000	618	0.000000
619	0.014644	619	0.000000
620	-0.000000	620	0.000000
621	-0.000000	621	0.000000
622	0.000000	622	0.000000
623	30.000000	623	0.000000
624	2.000000	624	0.000000
625	3.500000	625	0.000000
626	0.000000	626	0.000000
627	0.000000	627	0.000000
628	0.000000	628	0.000000
629	2.600000	629	0.000000
630	2.580000	630	0.000000
631	0.000000	631	0.000000
632	0.000000	632	0.000000
633	0.000000	633	0.000000
634	0.000000	634	0.000000
635	0.000000	635	0.000000
636	0.000000	636	0.000000
637	0.000000	637	0.000000
638	0.000000	638	0.000000
639	0.000000	639	0.000000
640	13.605174	640	0.000000
641	67.739246	641	0.000000
642	16.744763	642	0.000000
643	85.717890	643	0.000000
644	10.814878	644	0.000000
645	-0.000000	645	0.000000
646	1.613160	646	0.000000
647	9.201718	647	0.000000
648	181.367745	648	0.000000
649	458.183449	649	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
650	808.154690	650	0.000000
651	464.660671	651	0.000000
652	204.521765	652	0.000000
653	1036.608193	653	0.000000
654	501.083413	654	0.000000
655	1.921800	655	0.000000
656	0.000000	656	0.000000
657	0.000000	657	0.000000
658	0.000000	658	0.000000
659	0.000000	659	0.000000
660	0.000000	660	0.000000
661	0.000000	661	0.000000
662	0.000000	662	0.000000
663	0.000000	663	0.000000
664	0.000000	664	0.000000
665	0.000000	665	0.000000
666	3249.998866	666	0.000000
667	7.400000	667	0.000000
668	78.525303	668	0.000000
669	4.626900	669	0.000000
670	2.064209	670	0.000000
671	1.388810	671	0.000000
672	0.000000	672	0.000000
673	0.000010	673	0.000000
674	2.278189	674	0.000000
675	0.268260	675	0.000000
676	1.191100	676	0.000000
677	0.155600	677	0.000000
678	0.000010	678	0.000000
679	0.000010	679	0.000000
680	575.769376	680	0.000000
681	2674.229490	681	0.000000
682	0.000000	682	0.000000
683	0.683178	683	0.000000
684	0.000000	684	0.000000
685	0.000000	685	0.000000
686	36.539090	686	0.000000
687	0.000000	687	0.000000
688	0.316822	688	0.000000
689	0.000000	689	0.000000
690	0.000000	690	0.000000
691	18.656620	691	0.000000
692	0.000000	692	0.000000
693	6.000000	693	0.000000
694	6.520828	694	0.000000
695	0.000000	695	0.000000
696	0.000000	696	0.000000
697	0.000000	697	0.000000
698	0.000000	698	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
699	3018.000000	699	0.000000
700	63.870612	700	0.000000
701	0.000000	701	0.000000
702	0.448633	702	0.000000
703	0.000000	703	0.000000
704	0.000000	704	0.000000
705	0.551367	705	0.000000
706	156.952805	706	0.000000
707	17.500000	707	0.000000
708	15.000000	708	0.000000
709	135.331391	709	0.000000
710	229.781890	710	0.000000
711	0.000000	711	0.000000
712	0.000000	712	0.000000
713	0.000000	713	0.000000
714	0.000000	714	0.000000
715	0.000000	715	0.000000
716	0.000000	716	0.000000
717	57.766385	717	0.000000
718	164.737077	718	0.000000
719	0.000000	719	0.000000
720	1524.491005	720	0.000000
721	0.000000	721	0.000000
722	115.668102	722	0.000000
723	0.000000	723	0.000000
724	0.985089	724	0.000000
725	0.000000	725	0.000000
726	0.000000	726	0.000000
727	0.000000	727	0.000000
728	0.014911	728	0.000000
729	-0.000000	729	0.000000
730	-0.000000	730	0.000000
731	0.000000	731	0.000000
732	25.600000	732	0.000000
733	2.000000	733	0.000000
734	3.500000	734	0.000000
735	0.000000	735	0.000000
736	0.000000	736	0.000000
737	0.000000	737	0.000000
738	5.300000	738	0.000000
739	2.709000	739	0.000000
740	0.000000	740	0.000000
741	0.000000	741	0.000000
742	0.000000	742	0.000000
743	0.000000	743	0.000000
744	0.000000	744	0.000000
745	0.000000	745	0.000000
746	0.000000	746	0.000000
747	0.000000	747	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
748	0.000000	748	0.000000
749	13.901501	749	0.000000
750	73.941749	750	0.000000
751	17.470792	751	0.000000
752	151.900839	752	0.000000
753	11.716117	753	0.000000
754	-0.000000	754	0.000000
755	2.075626	755	0.000000
756	9.640491	756	0.000000
757	172.501227	757	0.000000
758	414.764930	758	0.000000
759	726.943541	759	0.000000
760	642.844048	760	0.000000
761	163.617448	761	0.000000
762	1194.087663	762	0.000000
763	1699.993662	763	0.000000
764	2.882700	764	0.000000
765	0.000000	765	0.000000
766	0.000000	766	0.000000
767	0.000000	767	0.000000
768	158.081183	768	0.000000
769	0.000000	769	0.000000
770	0.000000	770	0.000000
771	0.000000	771	0.000000
772	0.000000	772	0.000000
773	0.000000	773	0.000000
774	0.000000	774	0.000000
775	3437.498571	775	0.000000
776	13.500000	776	0.000000
777	72.289370	777	0.000000
778	4.626900	778	0.000000
779	1.363273	779	0.000000
780	2.427243	780	0.000000
781	1.118853	781	0.000000
782	0.000000	782	0.000000
783	5.750000	783	0.000000
784	0.268260	784	0.000000
785	2.144400	785	0.000000
786	0.171700	786	0.000000
787	0.000000	787	0.000000
788	0.000000	788	0.000000
789	748.082873	789	0.000000
790	2689.415697	790	0.000000
791	0.000000	791	0.000000
792	0.000000	792	0.000000
793	0.000000	793	0.000000
794	3249.533786	794	0.000000
795	41.942074	795	0.000000
796	0.000000	796	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
797	0.000000	797	0.000000
798	1.000000	798	0.000000
799	0.000000	799	0.000000
800	23.586625	800	0.000000
801	0.000000	801	0.000000
802	2.531027	802	0.000000
803	3.590682	803	0.000000
804	5.000000	804	0.000000
805	0.000000	805	0.000000
806	0.000000	806	0.000000
807	0.000000	807	0.000000
808	2243.165100	808	0.000000
809	5.966885	809	0.000000
810	0.000000	810	0.000000
811	0.000000	811	0.000000
812	0.000000	812	0.000000
813	0.000000	813	0.000000
814	1.000000	814	0.000000
815	133.323417	815	0.000000
816	12.788977	816	0.000000
817	18.605957	817	0.000000
818	160.363072	818	0.000000
819	230.059155	819	0.000000
820	0.000000	820	0.000000
821	0.000000	821	0.000000
822	0.000000	822	0.000000
823	0.000000	823	0.000000
824	3.616081	824	0.000000
825	0.000000	825	0.000000
826	0.000000	826	0.000000
827	394.429035	827	0.000000
828	0.000000	828	0.000000
829	2373.465682	829	0.000000
830	0.000000	830	0.000000
831	173.815960	831	0.000000
832	0.000000	832	0.000000
833	0.000000	833	0.000000
834	0.000000	834	0.000000
835	0.986168	835	0.000000
836	0.000000	836	0.000000
837	0.013832	837	0.000000
838	19.612118	838	0.000000
839	196.121178	839	0.000000
840	0.000000	840	0.000000
841	19.600000	841	0.000000
842	2.000000	842	0.000000
843	3.500000	843	0.000000
844	0.000000	844	0.000000
845	0.000000	845	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
846	0.000000	846	0.000000
847	9.500000	847	0.000000
848	2.838000	848	0.000000
849	0.000000	849	0.000000
850	0.000000	850	0.000000
851	0.000000	851	0.000000
852	0.000000	852	0.000000
853	0.000000	853	0.000000
854	0.000000	854	0.000000
855	0.000000	855	0.000000
856	0.000000	856	0.000000
857	0.000000	857	0.000000
858	13.425045	858	0.000000
859	86.984424	859	0.000000
860	18.811599	860	0.000000
861	253.173717	861	0.000000
862	12.392046	862	0.000000
863	-0.000000	863	0.000000
864	2.696809	864	0.000000
865	9.695237	865	0.000000
866	101.766768	866	0.000000
867	420.360627	867	0.000000
868	458.041001	868	0.000000
869	503.701751	869	0.000000
870	130.893988	870	0.000000
871	1150.074399	871	0.000000
872	596.636940	872	0.000000
873	2949.329102	873	-1.541671
874	206.800000	874	0.000000
875	142.600000	875	0.000000
876	25.175573	876	0.000000
877	65379.243263	877	0.000000
878	76779.243263	878	0.000000
879	0.000000	879	0.000000
880	0.000000	880	0.000000
881	0.000000	881	0.000000
882	0.000000	882	0.000000
883	0.000000	883	0.000000
884	0.000000	884	0.000000
885	0.000000	885	0.000000
886	5521.097656	886	0.000000
887	924.749756	887	0.000000
888	11927.218750	888	0.000000
889	7484.308594	889	0.000000
890	3575.699463	890	0.000000
891	16062.421880	891	0.000000
892	15216.585940	892	0.000000
893	1105.481445	893	0.000000
894	496.057617	894	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
895	4025.814209	895	0.000000
896	1947.390381	896	0.000000
897	0.000000	897	0.000000
898	0.000000	898	0.000000
899	5203.980469	899	0.000000
900	0.012727	900	0.000000
901	0.000000	901	0.000000
902	0.000000	902	0.000000
903	12.536462	903	0.000000
904	0.000000	904	0.000000
905	0.000000	905	0.000000
906	0.000000	906	0.000000
907	0.000000	907	0.000000
908	-0.000000	908	0.000000
909	19.995929	909	0.000000
910	-0.000000	910	0.000000
911	1.345157	911	0.000000
912	0.000000	912	0.000000
913	0.000000	913	0.000000
914	-0.000000	914	0.000000
915	-0.000000	915	0.000000
916	0.000000	916	0.000000
917	-0.000000	917	0.000000
918	0.000000	918	0.000000
919	0.000000	919	0.000000
920	0.000000	920	0.000000
921	0.000000	921	0.000000
922	0.000000	922	0.000000
923	62.267723	923	0.000000
924	169.447105	924	0.000000
925	144.525910	925	0.000000
926	40.023611	926	0.000000
927	582.798801	927	0.000000
928	67.326124	928	0.000000
929	0.042252	929	0.000000
930	0.000000	930	0.000000
931	35.153570	931	0.000000
932	0.000000	932	0.000000
933	0.000000	933	0.000000
934	0.000000	934	0.000000
935	-0.000000	935	0.000000
936	3.208785	936	0.000000
937	-0.000000	937	0.000000
938	0.000000	938	0.000000
939	0.774803	939	0.000000
940	0.000000	940	0.000000
941	0.000003	941	0.000000
942	0.016400	942	0.000000
943	0.000000	943	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
944	0.000003	944	0.000000
945	0.000333	945	0.000000
946	0.000333	946	0.000000
947	0.000333	947	0.000000
948	21.559902	948	0.000000
949	78.000000	949	0.000000
950	0.290625	950	0.000000
951	11.725724	951	0.000000
952	0.000000	952	0.000000
953	3.908858	953	0.000000
954	0.000000	954	0.000000
955	0.000000	955	0.000000
956	0.000000	956	0.000000
957	0.000000	957	0.000000
958	33.237976	958	0.000000
959	0.000000	959	0.000000
960	0.000000	960	0.000000
961	1.000000	961	0.000000
962	0.000000	962	0.000000
963	0.058125	963	0.000000
964	0.000000	964	0.000000
965	0.000000	965	0.000000
966	0.000000	966	0.000000
967	20600.000000	967	0.000000
968	465.000000	968	0.000000
969	0.000000	969	0.000000
970	0.000000	970	0.000000
971	0.720119	971	0.000000
972	0.000000	972	0.000000
973	0.000000	973	0.000000
974	0.000000	974	0.000000
975	0.000000	975	0.000000
976	0.000000	976	0.000000
977	0.000000	977	0.000000
978	0.000000	978	0.000000
979	0.000000	979	0.000000
980	0.000000	980	0.000000
981	0.000000	981	0.000000
982	0.000000	982	0.000000
983	0.000000	983	0.000000
984	0.000000	984	0.000000
985	0.000000	985	0.000000
986	0.000000	986	0.000000
987	0.000000	987	0.000000
988	0.000000	988	0.000000
989	0.000000	989	0.000000
990	0.006396	990	0.000000
991	0.000000	991	0.000000
992	0.000000	992	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
993	0.000000	993	0.000000
994	0.000000	994	0.000000
995	0.000000	995	0.000000
996	0.000000	996	0.000000
997	0.000000	997	0.000000
998	0.000000	998	0.000000
999	0.000000	999	0.000000
1000	0.000000	1000	0.000000
1001	0.745215	1001	0.000000
1002	109.066145	1002	0.000000
1003	0.000000	1003	0.000000
1004	49.539927	1004	0.000000
1005	727.843628	1005	0.000000
1006	0.000000	1006	0.000000
1007	0.000000	1007	0.000000
1008	0.000000	1008	0.000000
1009	0.000000	1009	0.000000
1010	120.514020	1010	0.000000
1011	0.000000	1011	0.000000
1012	0.000000	1012	0.000000
1013	52.548082	1013	0.000000
1014	564.237057	1014	0.000000
1015	0.000000	1015	0.254850
1016	638.725436	1016	0.000000
1017	0.000000	1017	0.028920
1018	0.000000	1018	0.104620
1019	0.000000	1019	0.201320
1020	0.000000	1020	0.311160
1021	0.000000	1021	0.431000
1022	0.000000	1022	0.560030
1023	0.000000	1023	0.689060
1024	65.562680	1024	0.000000
1025	3598.181504	1025	0.000000
1026	290.819384	1026	0.000000
1027	408.881200	1027	0.000000
1028	223.765030	1028	0.000000
1029	46970.066306	1029	0.000000
1030	46970.066306	1030	0.000000
1031	0.000000	1031	0.000000
1032	0.000000	1032	0.000000
1033	10886.374822	1033	0.000000
1034	0.000000	1034	0.000000
1035	0.000000	1035	0.000000
1036	0.000000	1036	0.000000
1037	0.000000	1037	0.000000
1038	6730.093750	1038	0.000000
1039	1127.249268	1039	0.000000
1040	0.000000	1040	0.000000
1041	9123.203125	1041	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1042	0.000000	1042	0.000000
1043	19579.734380	1043	0.000000
1044	0.000000	1044	0.000000
1045	1347.557129	1045	0.000000
1046	604.683105	1046	0.000000
1047	4907.375000	1047	0.000000
1048	2373.825439	1048	0.000000
1049	0.000000	1049	0.000000
1050	0.000000	1050	0.000000
1051	6343.535156	1051	0.000000
1052	0.000000	1052	0.000000
1053	0.000000	1053	0.000000
1054	0.000000	1054	0.000000
1055	0.000000	1055	0.000000
1056	0.000000	1056	0.000000
1057	0.000000	1057	0.000000
1058	8449.669635	1058	0.000000
1059	0.000000	1059	0.000000
1060	-0.000000	1060	0.000000
1061	0.000000	1061	0.000000
1062	0.000000	1062	0.000000
1063	1.344408	1063	0.000000
1064	0.000000	1064	0.000000
1065	0.000000	1065	0.000000
1066	0.000000	1066	0.000000
1067	0.082000	1067	0.000000
1068	0.000000	1068	0.000000
1069	0.000000	1069	0.000000
1070	0.000000	1070	0.000000
1071	0.000000	1071	0.000000
1072	0.000000	1072	0.000000
1073	0.000000	1073	0.000000
1074	23.777067	1074	0.000000
1075	0.000000	1075	0.000000
1076	56.302972	1076	0.000000
1077	0.000000	1077	0.000000
1078	93.301665	1078	0.000000
1079	211.891732	1079	0.000000
1080	0.000000	1080	0.000000
1081	0.156548	1081	0.000000
1082	0.000000	1082	0.000000
1083	946.019231	1083	0.000000
1084	28.196237	1084	0.000000
1085	0.000000	1085	0.000000
1086	0.000000	1086	0.000000
1087	0.000000	1087	0.000000
1088	14.457874	1088	0.000000
1089	0.925380	1089	0.000000
1090	0.247557	1090	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1091	0.000000	1091	0.000000
1092	1.790165	1092	0.000000
1093	0.000000	1093	0.000000
1094	0.000000	1094	0.000000
1095	0.000000	1095	0.000000
1096	0.504564	1096	0.000000
1097	0.076178	1097	0.000000
1098	0.000000	1098	0.000000
1099	0.000000	1099	0.000000
1100	33.039863	1100	0.000000
1101	-0.000000	1101	0.000000
1102	20.674053	1102	0.000000
1103	40.215670	1103	0.000000
1104	17.351576	1104	0.000000
1105	90.631332	1105	0.000000
1106	28.246454	1106	0.000000
1107	38.785780	1107	0.000000
1108	82.279863	1108	0.000000
1109	0.000000	1109	0.000000
1110	33.800830	1110	0.000000
1111	0.000000	1111	0.000000
1112	0.000000	1112	0.000000
1113	1.000000	1113	0.000000
1114	0.000000	1114	0.000000
1115	0.000000	1115	0.000000
1116	0.000000	1116	0.000000
1117	0.598991	1117	0.000000
1118	-0.000000	1118	0.000000
1119	0.000000	1119	0.000000
1120	13910.779343	1120	0.000000
1121	0.000000	1121	0.000000
1122	0.000000	1122	0.000000
1123	0.000000	1123	0.000000
1124	0.000000	1124	0.000000
1125	0.657477	1125	0.000000
1126	0.000000	1126	0.000000
1127	0.000000	1127	0.000000
1128	0.000000	1128	0.000000
1129	0.000000	1129	0.000000
1130	0.000000	1130	0.000000
1131	0.000000	1131	0.000000
1132	0.000000	1132	0.000000
1133	0.000000	1133	0.000000
1134	0.000000	1134	0.000000
1135	0.000000	1135	0.000000
1136	0.000000	1136	0.000000
1137	0.054000	1137	0.000000
1138	0.000000	1138	0.000000
1139	0.000000	1139	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1140	0.000000	1140	0.000000
1141	0.000000	1141	0.000000
1142	0.000000	1142	0.000000
1143	0.000000	1143	0.000000
1144	0.945705	1144	0.000000
1145	0.000000	1145	0.000000
1146	0.000000	1146	0.000000
1147	0.000000	1147	0.000000
1148	0.000000	1148	0.000000
1149	0.000000	1149	0.000000
1150	0.000000	1150	0.000000
1151	0.000000	1151	0.000000
1152	0.000000	1152	0.000000
1153	0.000000	1153	0.000000
1154	0.000000	1154	0.000000
1155	0.758006	1155	0.000000
1156	0.000000	1156	0.000000
1157	0.000000	1157	0.000000
1158	50.717014	1158	0.000000
1159	0.000000	1159	0.000000
1160	39.807623	1160	0.000000
1161	270.450890	1161	0.000000
1162	0.000000	1162	0.000000
1163	0.000000	1163	0.000000
1164	0.000000	1164	0.000000
1165	0.000000	1165	0.000000
1166	168.744348	1166	0.000000
1167	0.000000	1167	0.000000
1168	0.000000	1168	0.000000
1169	0.000000	1169	0.000000
1170	709.543154	1170	0.000000
1171	0.000000	1171	0.199682
1172	803.234005	1172	0.000000
1173	0.000000	1173	0.022659
1174	0.000000	1174	0.081973
1175	0.000000	1175	0.157740
1176	0.000000	1176	0.243803
1177	0.000000	1177	0.337701
1178	0.000000	1178	0.438800
1179	0.000000	1179	0.539899
1180	89.825251	1180	0.000000
1181	4317.817805	1181	0.000000
1182	366.079225	1182	0.000000
1183	515.393679	1183	0.000000
1184	303.200812	1184	0.000000
1185	75244.849335	1185	0.000000
1186	75244.849335	1186	0.000000
1187	0.000000	1187	0.000000
1188	0.000000	1188	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1189	1390.173271	1189	0.000000
1190	0.000000	1190	0.000000
1191	0.000000	1191	0.000000
1192	0.000000	1192	0.000000
1193	5846.429688	1193	0.000000
1194	8180.898438	1194	0.000000
1195	1370.249756	1195	0.000000
1196	17673.175780	1196	0.000000
1197	11089.886720	1197	0.000000
1198	5298.296875	1198	0.000000
1199	23800.523440	1199	0.000000
1200	0.000000	1200	0.000000
1201	1638.049072	1201	0.000000
1202	735.034180	1202	0.000000
1203	5965.253906	1203	0.000000
1204	2885.549316	1204	0.000000
1205	0.000000	1205	0.000000
1206	0.000000	1206	0.000000
1207	0.000000	1207	0.000000
1208	0.000000	1208	0.000000
1209	0.000000	1209	0.000000
1210	0.000000	1210	0.000000
1211	0.000000	1211	0.000000
1212	0.000000	1212	0.000000
1213	0.000000	1213	0.000000
1214	7806.380090	1214	0.000000
1215	5309.911737	1215	0.000000
1216	0.000000	1216	0.000000
1217	34.348985	1217	0.000000
1218	4.626890	1218	0.000000
1219	0.000000	1219	0.000000
1220	0.000000	1220	0.000000
1221	7.576156	1221	0.000000
1222	-0.000000	1222	0.000000
1223	0.000000	1223	0.000000
1224	0.000000	1224	0.000000
1225	2.522836	1225	0.000000
1226	0.200200	1226	0.000000
1227	0.000667	1227	0.000000
1228	0.000667	1228	0.000000
1229	0.000000	1229	0.000000
1230	43.342108	1230	0.000000
1231	181.271611	1231	0.000000
1232	0.000000	1232	0.000000
1233	0.000000	1233	0.000000
1234	0.000000	1234	0.000000
1235	52.690702	1235	0.000000
1236	0.000000	1236	0.000000
1237	0.000000	1237	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1238	0.000000	1238	0.000000
1239	0.000000	1239	0.000000
1240	0.000000	1240	0.000000
1241	0.000000	1241	0.000000
1242	0.000000	1242	0.000000
1243	2.700000	1243	0.000000
1244	0.000000	1244	0.000000
1245	0.000000	1245	0.000000
1246	0.426706	1246	0.000000
1247	0.000000	1247	0.000000
1248	0.000000	1248	0.000000
1249	-0.000000	1249	0.000000
1250	1.150000	1250	0.000000
1251	0.000000	1251	0.000000
1252	0.000000	1252	0.000000
1253	0.000000	1253	0.000000
1254	0.000000	1254	0.000000
1255	0.362077	1255	0.000000
1256	19.774769	1256	0.000000
1257	75.258520	1257	0.000000
1258	0.000000	1258	0.000000
1259	21.558832	1259	0.000000
1260	0.000000	1260	0.000000
1261	0.000000	1261	0.000000
1262	34.795376	1262	0.000000
1263	0.000000	1263	0.000000
1264	0.000000	1264	0.000000
1265	235.748550	1265	0.000000
1266	28.101016	1266	0.000000
1267	0.000000	1267	0.000000
1268	0.000000	1268	0.000000
1269	0.000000	1269	0.000000
1270	0.085619	1270	0.000000
1271	0.000000	1271	0.000000
1272	0.000000	1272	0.000000
1273	0.598991	1273	0.000000
1274	-0.000000	1274	0.000000
1275	0.000000	1275	0.000000
1276	0.000000	1276	0.000000
1277	1.182668	1277	0.000000
1278	0.000000	1278	0.000000
1279	0.000000	1279	0.000000
1280	0.000000	1280	0.000000
1281	0.894115	1281	0.000000
1282	0.000000	1282	0.000000
1283	0.000000	1283	0.000000
1284	0.000000	1284	0.000000
1285	0.000000	1285	0.000000
1286	0.000000	1286	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1287	0.000000	1287	0.000000
1288	0.000000	1288	0.000000
1289	0.000000	1289	0.000000
1290	0.000000	1290	0.000000
1291	0.000000	1291	0.000000
1292	0.000000	1292	0.000000
1293	0.000000	1293	0.000000
1294	0.000000	1294	0.000000
1295	0.000000	1295	0.000000
1296	0.000000	1296	0.000000
1297	0.000000	1297	0.000000
1298	0.000000	1298	0.000000
1299	0.000000	1299	0.000000
1300	1.118932	1300	0.000000
1301	0.000000	1301	0.000000
1302	0.000000	1302	0.000000
1303	0.000000	1303	0.000000
1304	0.000000	1304	0.000000
1305	0.000000	1305	0.000000
1306	0.000000	1306	0.000000
1307	0.000000	1307	0.000000
1308	0.000000	1308	0.000000
1309	0.000000	1309	0.000000
1310	0.000000	1310	0.000000
1311	0.855864	1311	0.000000
1312	0.000000	1312	0.000000
1313	0.000000	1313	0.000000
1314	0.000000	1314	0.000000
1315	0.000000	1315	0.000000
1316	0.000000	1316	0.000000
1317	100.757015	1317	0.000000
1318	0.000000	1318	0.000000
1319	0.000000	1319	0.000000
1320	0.000000	1320	0.000000
1321	0.000000	1321	0.000000
1322	39.972017	1322	0.000000
1323	0.000000	1323	0.000000
1324	0.000000	1324	0.000000
1325	0.000000	1325	0.000000
1326	0.000000	1326	0.000000
1327	0.000000	1327	0.000000
1328	217.924022	1328	0.000000
1329	0.000000	1329	0.000000
1330	0.000000	1330	0.000000
1331	0.000000	1331	0.000000
1332	885.838359	1332	0.000000
1333	0.000000	1333	0.156455
1334	1003.335611	1334	0.000000
1335	0.000000	1335	0.017754

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Coordenada x	Valor x	Coordenada z	Valor z
1336	0.000000	1336	0.064227
1337	0.000000	1337	0.123592
1338	0.000000	1338	0.191024
1339	0.000000	1339	0.264595
1340	0.000000	1340	0.343808
1341	0.000000	1341	0.423020
1342	119.695051	1342	0.000000
1343	4879.134120	1343	0.000000
1344	436.532796	1344	0.000000
1345	557.998671	1345	0.000000
1346	334.975125	1346	0.000000
1347	96798.690657	1347	0.000000
1348	96798.690657	1348	0.000000
1349	0.000000	1349	0.000000
1350	0.000000	1350	0.000000
1351	0.000000	1351	0.000000
1352	6630.777564	1352	0.000000
1353	0.000000	1353	0.000000
1354	0.000000	1354	0.000000
1355	0.000000	1355	0.000000
1356	9913.792969	1356	0.000000
1357	1660.499268	1357	0.000000
1358	21416.750000	1358	0.000000
1359	13438.972660	1359	0.000000
1360	6420.593750	1360	0.000000
1361	28842.007810	1361	0.000000
1362	0.000000	1362	0.000000
1363	1985.024658	1363	0.000000
1364	890.730957	1364	0.000000
1365	7228.832031	1365	0.000000
1366	3496.773193	1366	0.000000
1367	0.000000	1367	0.000000
1368	0.000000	1368	0.000000
1369	9344.371094	1369	0.000000
1370	0.000000	1370	0.000000
1371	0.000000	1371	0.000000
1372	0.000000	1372	0.000000
1373	0.000000	1373	0.000000
1374	0.000000	1374	0.000000
1375	0.000000	1375	0.000000
1376	7373.450294	1376	0.000000
1377	4995.511737	1377	0.000000
1378	13.500000	1378	0.000000
1379	18.363678	1379	0.000000
1380	4.626900	1380	0.000000
1381	0.228179	1381	0.000000
1382	0.000000	1382	0.000000
1383	9.262447	1383	0.000000
1384	0.000000	1384	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1385	5.668000	1385	0.000000
1386	0.000000	1386	0.000000
1387	2.522836	1387	0.000000
1388	0.172555	1388	0.000000
1389	0.000667	1389	0.000000
1390	1.086897	1390	0.000000
1391	0.000000	1391	0.000000
1392	0.000000	1392	0.000000
1393	0.000000	1393	0.000000
1394	0.000000	1394	0.000000
1395	610.641901	1395	0.000000
1396	0.000000	1396	0.000000
1397	727.086792	1397	0.000000
1398	0.000000	1398	0.000000
1399	0.632635	1399	0.000000
1400	0.000000	1400	0.000000
1401	0.000000	1401	0.000000
1402	0.000000	1402	0.000000
1403	0.000000	1403	0.000000
1404	0.000000	1404	0.000000
1405	0.000000	1405	0.000000
1406	0.000000	1406	0.000000
1407	0.000000	1407	0.000000
1408	0.000000	1408	0.000000
1409	1.447292	1409	0.000000
1410	0.000000	1410	0.000000
1411	0.000000	1411	0.000000
1412	0.000000	1412	0.000000
1413	0.000000	1413	0.000000
1414	0.000000	1414	0.000000
1415	0.000000	1415	0.000000
1416	0.583806	1416	0.000000
1417	0.000000	1417	0.000000
1418	74.711523	1418	0.000000
1419	-0.000000	1419	0.000000
1420	0.000000	1420	0.000000
1421	54.312045	1421	0.000000
1422	0.000000	1422	0.000000
1423	0.000000	1423	0.000000
1424	0.000000	1424	0.000000
1425	731.657328	1425	0.000000
1426	0.000000	1426	0.000000
1427	8.787676	1427	0.000000
1428	41.778797	1428	0.000000
1429	0.000000	1429	0.000000
1430	0.000000	1430	0.000000
1431	0.000000	1431	0.000000
1432	0.085619	1432	0.000000
1433	0.000000	1433	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1434	0.000000	1434	0.000000
1435	0.598991	1435	0.000000
1436	0.000000	1436	0.000000
1437	0.000000	1437	0.000000
1438	0.000000	1438	0.000000
1439	2.013270	1439	0.000000
1440	0.000000	1440	0.000000
1441	0.000000	1441	0.000000
1442	0.000000	1442	0.000000
1443	0.878639	1443	0.000000
1444	0.000000	1444	0.000000
1445	0.000000	1445	0.000000
1446	0.000000	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	0.000000
1452	0.000000	1452	0.000000
1453	0.000000	1453	0.000000
1454	0.000000	1454	0.000000
1455	0.000000	1455	0.000000
1456	0.000000	1456	0.000000
1457	0.000000	1457	0.000000
1458	0.000000	1458	0.000000
1459	0.000000	1459	0.000000
1460	0.000000	1460	0.000000
1461	0.000000	1461	0.000000
1462	0.966720	1462	0.000000
1463	0.000000	1463	0.000000
1464	0.000000	1464	0.000000
1465	0.000000	1465	0.000000
1466	0.000000	1466	0.000000
1467	0.000000	1467	0.000000
1468	0.000000	1468	0.000000
1469	0.000000	1469	0.000000
1470	0.000000	1470	0.000000
1471	0.000000	1471	0.000000
1472	0.000000	1472	0.000000
1473	0.871905	1473	0.000000
1474	0.000000	1474	0.000000
1475	0.000000	1475	0.000000
1476	0.000000	1476	0.000000
1477	0.000000	1477	0.000000
1478	0.000000	1478	0.000000
1479	3681.148376	1479	0.000000
1480	0.000000	1480	0.000000
1481	0.000000	1481	0.000000
1482	0.000000	1482	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1483	295.003930	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	0.000000
1488	555.408953	1488	0.000000
1489	3663.012633	1489	0.000000
1490	0.000000	1490	0.000000
1491	0.000000	1491	0.000000
1492	0.000000	1492	0.000000
1493	0.000000	1493	0.000000
1494	169.331048	1494	0.000000
1495	0.000000	1495	0.000000
1496	0.000000	1496	0.000000
1497	212.251639	1497	0.000000
1498	1039.422600	1498	0.000000
1499	0.000000	1499	0.122588
1500	1177.482514	1500	0.000000
1501	0.000000	1501	0.013911
1502	0.000000	1502	0.050324
1503	0.000000	1503	0.096839
1504	0.000000	1504	0.149674
1505	0.000000	1505	0.207320
1506	0.000000	1506	0.269386
1507	0.000000	1507	0.331452
1508	148.709914	1508	0.000000
1509	5440.234544	1509	0.000000
1510	502.845647	1510	0.000000
1511	575.040668	1511	0.000000
1512	347.684850	1512	0.000000
1513	108697.280111	1513	0.000000
1514	108697.280111	1514	0.000000
1515	0.000000	1515	0.000000
1516	0.000000	1516	0.000000
1517	2934.576314	1517	0.000000
1518	0.000000	1518	0.000000
1519	0.000000	1519	0.000000
1520	0.000000	1520	0.000000
1521	0.000000	1521	0.000000
1522	12090.000000	1522	0.000000
1523	2025.000000	1523	0.000000
1524	0.000000	1524	0.000000
1525	0.000000	1525	0.000000
1526	7830.000000	1526	0.000000
1527	35173.195310	1527	0.000000
1528	33321.000000	1528	0.000000
1529	2420.762695	1529	0.000000
1530	1086.257813	1530	0.000000
1531	8815.652344	1531	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1532	4264.359375	1532	0.000000
1533	0.000000	1533	0.000000
1534	0.000000	1534	0.000000
1535	11395.582030	1535	0.000000
1536	0.337250	1536	0.000000
1537	0.000000	1537	0.000000
1538	0.000000	1538	0.000000
1539	38.136964	1539	0.000000
1540	0.000000	1540	0.000000
1541	0.000000	1541	0.000000
1542	7897.263767	1542	0.000000
1543	3126.828724	1543	0.000000
1544	13.500000	1544	0.000000
1545	16.532039	1545	0.000000
1546	3.590100	1546	0.000000
1547	0.394840	1547	0.000000
1548	8.505910	1548	0.000000
1549	9.158573	1549	0.000000
1550	0.000000	1550	0.000000
1551	5.012000	1551	0.000000
1552	0.000000	1552	0.000000
1553	2.347659	1553	0.000000
1554	0.000000	1554	0.000000
1555	1.752085	1555	0.000000
1556	1.811051	1556	0.000000
1557	294.275186	1557	0.000000
1558	8.686235	1558	0.000000
1559	570.823410	1559	0.000000
1560	62.006286	1560	0.000000
1561	3309.185733	1561	0.000000
1562	164.046208	1562	0.000000
1563	383.406272	1563	0.000000
1564	0.000000	1564	0.000000
1565	0.000000	1565	0.000000
1566	0.000000	1566	0.000000
1567	-0.000000	1567	0.000000
1568	0.000000	1568	0.000000
1569	0.000000	1569	0.000000
1570	0.000000	1570	0.000000
1571	0.000000	1571	0.000000
1572	0.000000	1572	0.000000
1573	0.000000	1573	0.000000
1574	0.000000	1574	0.000000
1575	0.000000	1575	0.000000
1576	0.000000	1576	0.000000
1577	0.000000	1577	0.000000
1578	0.000000	1578	0.000000
1579	0.000000	1579	0.000000
1580	0.000000	1580	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1581	0.000000	1581	0.000000
1582	0.000000	1582	0.000000
1583	0.876101	1583	0.000000
1584	0.000000	1584	0.000000
1585	-0.000000	1585	0.000000
1586	23.812339	1586	0.000000
1587	33.304605	1587	0.000000
1588	34.559779	1588	0.000000
1589	679.426580	1589	0.000000
1590	148.425372	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	0.000000	1595	0.000000
1596	0.000000	1596	0.000000
1597	0.000000	1597	0.000000
1598	0.085619	1598	0.000000
1599	0.000000	1599	0.000000
1600	0.000000	1600	0.000000
1601	0.000000	1601	0.000000
1602	0.058917	1602	0.000000
1603	0.000000	1603	0.000000
1604	0.000000	1604	0.000000
1605	2.284675	1605	0.000000
1606	0.000000	1606	0.000000
1607	0.000000	1607	0.000000
1608	0.000000	1608	0.000000
1609	0.000000	1609	0.000000
1610	0.000000	1610	0.000000
1611	0.000000	1611	0.000000
1612	0.000000	1612	0.000000
1613	1.817643	1613	0.000000
1614	0.000000	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	0.000000	1619	0.000000
1620	0.000000	1620	0.000000
1621	0.000000	1621	0.000000
1622	0.000000	1622	0.000000
1623	0.000000	1623	0.000000
1624	0.000000	1624	0.000000
1625	0.000000	1625	0.000000
1626	0.000000	1626	0.000000
1627	0.000000	1627	0.000000
1628	0.000000	1628	0.000000
1629	0.000000	1629	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1630	1.088661	1630	0.000000
1631	0.000000	1631	0.000000
1632	0.000000	1632	0.000000
1633	0.000000	1633	0.000000
1634	0.000000	1634	0.000000
1635	0.000000	1635	0.000000
1636	0.000000	1636	0.000000
1637	0.000000	1637	0.000000
1638	1.141733	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	0.000000	1643	0.000000
1644	5842.610822	1644	0.000000
1645	0.000000	1645	0.000000
1646	0.000000	1646	0.000000
1647	0.000000	1647	0.000000
1648	0.000000	1648	0.000000
1649	0.000000	1649	0.000000
1650	0.000000	1650	0.000000
1651	0.000000	1651	0.000000
1652	0.000000	1652	0.000000
1653	0.000000	1653	0.000000
1654	725.919182	1654	0.000000
1655	7576.808852	1655	0.000000
1656	0.000000	1656	0.000000
1657	0.000000	1657	0.000000
1658	0.000000	1658	0.000000
1659	0.000000	1659	0.000000
1660	140.217123	1660	0.000000
1661	0.000000	1661	0.000000
1662	0.000000	1662	0.000000
1663	0.000000	1663	0.000000
1664	1197.749071	1664	0.000000
1665	0.000000	1665	0.096050
1666	1356.871281	1666	0.000000
1667	0.000000	1667	0.010899
1668	0.000000	1668	0.039430
1669	0.000000	1669	0.075875
1670	0.000000	1670	0.117273
1671	0.000000	1671	0.162439
1672	0.000000	1672	0.211069
1673	0.000000	1673	0.259699
1674	177.270210	1674	0.000000
1675	6065.861516	1675	0.000000
1676	574.515855	1676	0.000000
1677	581.857467	1677	0.000000
1678	352.768741	1678	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1679	134800.832748	1679	0.000000
1680	134800.832748	1680	0.000000
1681	0.000000	1681	0.000000
1682	0.000000	1682	0.000000
1683	0.000000	1683	0.000000
1684	6923.587782	1684	0.000000
1685	0.000000	1685	0.000000
1686	0.000000	1686	0.000000
1687	0.000000	1687	0.000000
1688	14709.496090	1688	0.000000
1689	2463.749512	1689	0.000000
1690	31776.894530	1690	0.000000
1691	19939.945310	1691	0.000000
1692	9526.496094	1692	0.000000
1693	42794.046880	1693	0.000000
1694	0.000000	1694	0.000000
1695	2945.260742	1695	0.000000
1696	1321.613525	1696	0.000000
1697	10725.707030	1697	0.000000
1698	5188.300781	1698	0.000000
1699	0.000000	1699	0.000000
1700	0.000000	1700	0.000000
1701	0.000000	1701	0.000000
1702	2.786995	1702	0.000000
1703	0.000000	1703	0.000000
1704	0.000000	1704	0.000000
1705	158.081183	1705	0.000000
1706	0.000000	1706	0.000000
1707	0.000000	1707	0.000000
1708	7897.263767	1708	0.000000
1709	1449.999366	1709	0.000000
1710	9.820000	1710	0.000000
1711	12.428825	1711	0.000000
1712	0.777100	1712	0.000000
1713	0.000000	1713	0.000000
1714	9.368300	1714	0.000000
1715	9.054699	1715	0.000000
1716	0.000000	1716	0.000000
1717	4.232000	1717	0.000000
1718	0.000000	1718	0.000000
1719	1.822130	1719	0.000000
1720	0.382555	1720	0.000000
1721	2.920681	1721	0.000000
1722	4.440339	1722	0.000000
1723	0.000000	1723	0.000000
1724	38.065272	1724	0.000000
1725	3039.048624	1725	0.000000
1726	111.693939	1726	0.000000
1727	2944.041636	1727	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1728	0.000000	1728	0.000000
1729	0.000000	1729	0.000000
1730	60.793470	1730	0.000000
1731	0.000000	1731	0.000000
1732	0.000000	1732	0.000000
1733	0.000000	1733	0.000000
1734	0.000000	1734	0.000000
1735	0.000000	1735	0.000000
1736	0.000000	1736	0.000000
1737	0.000000	1737	0.000000
1738	0.000000	1738	0.000000
1739	0.000000	1739	0.000000
1740	0.000000	1740	0.000000
1741	0.000000	1741	0.000000
1742	0.000000	1742	0.000000
1743	0.000000	1743	0.000000
1744	0.000000	1744	0.000000
1745	0.000000	1745	0.000000
1746	0.000000	1746	0.000000
1747	0.000000	1747	0.000000
1748	0.000000	1748	0.000000
1749	0.574810	1749	0.000000
1750	278.548648	1750	0.000000
1751	-0.000000	1751	0.000000
1752	0.000000	1752	0.000000
1753	21.851153	1753	0.000000
1754	0.000000	1754	0.000000
1755	0.000000	1755	0.000000
1756	0.000000	1756	0.000000
1757	462.191249	1757	0.000000
1758	0.000000	1758	0.000000
1759	87.805521	1759	0.000000
1760	154.669117	1760	0.000000
1761	0.000000	1761	0.000000
1762	0.000000	1762	0.000000
1763	0.000000	1763	0.000000
1764	0.085619	1764	0.000000
1765	0.000000	1765	0.000000
1766	-0.000000	1766	0.000000
1767	0.000000	1767	0.000000
1768	0.058917	1768	0.000000
1769	0.000000	1769	0.000000
1770	0.000000	1770	0.000000
1771	2.366338	1771	0.000000
1772	0.000000	1772	0.000000
1773	0.000000	1773	0.000000
1774	0.000000	1774	0.000000
1775	0.000000	1775	0.000000
1776	0.000000	1776	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1777	0.000000	1777	0.000000
1778	0.000000	1778	0.000000
1779	2.064696	1779	0.000000
1780	0.000000	1780	0.000000
1781	0.000000	1781	0.000000
1782	0.000000	1782	0.000000
1783	0.000000	1783	0.000000
1784	0.000000	1784	0.000000
1785	0.000000	1785	0.000000
1786	0.000000	1786	0.000000
1787	0.000000	1787	0.000000
1788	0.000000	1788	0.000000
1789	0.000000	1789	0.000000
1790	0.000000	1790	0.000000
1791	0.000000	1791	0.000000
1792	0.000000	1792	0.000000
1793	0.000000	1793	0.000000
1794	1.233577	1794	0.000000
1795	0.000000	1795	0.000000
1796	0.000000	1796	0.000000
1797	0.000000	1797	0.000000
1798	0.000000	1798	0.000000
1799	0.000000	1799	0.000000
1800	0.000000	1800	0.000000
1801	0.000000	1801	0.000000
1802	0.000000	1802	0.000000
1803	0.000000	1803	0.000000
1804	1.342092	1804	0.000000
1805	0.000000	1805	0.000000
1806	0.000000	1806	0.000000
1807	0.000000	1807	0.000000
1808	0.000000	1808	0.000000
1809	0.000000	1809	0.000000
1810	0.000000	1810	0.000000
1811	0.000000	1811	0.000000
1812	0.000000	1812	0.000000
1813	0.000000	1813	0.000000
1814	0.000000	1814	0.000000
1815	0.000000	1815	0.000000
1816	0.000000	1816	0.000000
1817	0.000000	1817	0.000000
1818	429.973378	1818	0.000000
1819	0.000000	1819	0.000000
1820	225.996507	1820	0.000000
1821	3437.904917	1821	0.000000
1822	0.000000	1822	0.000000
1823	0.000000	1823	0.000000
1824	0.000000	1824	0.000000
1825	0.000000	1825	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1826	250.461339	1826	0.000000
1827	0.000000	1827	0.000000
1828	0.000000	1828	0.000000
1829	317.963019	1829	0.000000
1830	1371.955620	1830	0.000000
1831	0.000000	1831	0.075257
1832	1554.592365	1832	0.000000
1833	0.000000	1833	0.008540
1834	0.000000	1834	0.030895
1835	0.000000	1835	0.059450
1836	0.000000	1836	0.091886
1837	0.000000	1837	0.127275
1838	0.000000	1838	0.165377
1839	0.000000	1839	0.203480
1840	207.460846	1840	0.000000
1841	6763.435591	1841	0.000000
1842	636.512226	1842	0.000000
1843	584.584186	1843	0.000000
1844	354.802297	1844	0.000000
1845	120021.694584	1845	0.000000
1846	120021.694584	1846	0.000000
1847	0.000000	1847	0.000000
1848	0.000000	1848	0.000000
1849	0.000000	1849	0.000000
1850	0.000000	1850	0.000000
1851	0.000000	1851	0.000000
1852	0.000000	1852	0.000000
1853	0.000000	1853	0.000000
1854	17893.195310	1854	0.000000
1855	2996.999512	1855	0.000000
1856	10326.025898	1856	0.000000
1857	24255.714840	1857	0.000000
1858	11588.398440	1858	0.000000
1859	0.000000	1859	0.000000
1860	49315.074220	1860	0.000000
1861	0.000000	1861	0.000000
1862	1607.661377	1862	0.000000
1863	0.000000	1863	0.000000
1864	0.000000	1864	0.000000
1865	0.000000	1865	0.000000
1866	0.000000	1866	0.000000
1867	0.000000	1867	0.000000
1868	1.520559	1868	0.000000
1869	0.000000	1869	0.000000
1870	1892.038462	1870	0.000000
1871	158.081183	1871	0.000000
1872	0.000000	1872	0.000000
1873	0.000000	1873	0.000000
1874	7897.263767	1874	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1875	0.000000	1875	0.000000
1876	6.100000	1876	0.000000
1877	9.807991	1877	0.000000
1878	-0.000000	1878	0.000000
1879	0.195610	1879	0.000000
1880	0.000000	1880	0.000000
1881	8.950825	1881	0.000000
1882	0.000000	1882	0.000000
1883	3.553811	1883	0.000000
1884	0.000000	1884	0.000000
1885	1.121542	1885	0.000000
1886	0.036778	1886	0.000000
1887	2.920681	1887	0.000000
1888	7.916970	1888	0.000000
1889	1044.201427	1889	0.000000
1890	0.000000	1890	0.000000
1891	2377.663250	1891	0.000000
1892	0.000000	1892	0.000000
1893	3902.758972	1893	0.000000
1894	0.000000	1894	0.000000
1895	0.000000	1895	0.000000
1896	0.000000	1896	0.000000
1897	0.000000	1897	0.000000
1898	0.000000	1898	0.000000
1899	0.000000	1899	0.000000
1900	0.000000	1900	0.000000
1901	0.000000	1901	0.000000
1902	0.000000	1902	0.000000
1903	0.000000	1903	0.000000
1904	0.000000	1904	0.000000
1905	0.000000	1905	0.000000
1906	0.000000	1906	0.000000
1907	2.851670	1907	0.000000
1908	0.000000	1908	0.000000
1909	0.000000	1909	0.000000
1910	0.000000	1910	0.000000
1911	0.000000	1911	0.000000
1912	0.000000	1912	0.000000
1913	0.000000	1913	0.000000
1914	0.000000	1914	0.000000
1915	0.000000	1915	0.000000
1916	0.000000	1916	0.000000
1917	-0.000000	1917	0.000000
1918	131.722252	1918	0.000000
1919	39.068584	1919	0.000000
1920	0.000000	1920	0.000000
1921	0.000000	1921	0.000000
1922	0.000000	1922	0.000000
1923	0.000000	1923	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1924	0.000000	1924	0.000000
1925	54.112232	1925	0.000000
1926	776.162881	1926	0.000000
1927	0.000000	1927	0.000000
1928	0.000000	1928	0.000000
1929	0.000000	1929	0.000000
1930	0.085619	1930	0.000000
1931	0.000000	1931	0.000000
1932	0.000000	1932	0.000000
1933	0.804829	1933	0.000000
1934	0.195171	1934	0.000000
1935	0.000000	1935	0.000000
1936	52561.930014	1936	0.000000
1937	2.064209	1937	0.000000
1938	0.000000	1938	0.000000
1939	0.000000	1939	0.000000
1940	0.000000	1940	0.000000
1941	0.000000	1941	0.000000
1942	0.000000	1942	0.000000
1943	0.000000	1943	0.000000
1944	0.000000	1944	0.000000
1945	0.902269	1945	0.000000
1946	0.000000	1946	0.000000
1947	0.000000	1947	0.000000
1948	0.000000	1948	0.000000
1949	0.000000	1949	0.000000
1950	0.000000	1950	0.000000
1951	1.456353	1951	0.000000
1952	0.000000	1952	0.000000
1953	0.000000	1953	0.000000
1954	0.000000	1954	0.000000
1955	0.000000	1955	0.000000
1956	0.000000	1956	0.000000
1957	0.000000	1957	0.000000
1958	0.000000	1958	0.000000
1959	0.000000	1959	0.000000
1960	1.398354	1960	0.000000
1961	0.000000	1961	0.000000
1962	0.000000	1962	0.000000
1963	0.000000	1963	0.000000
1964	0.000000	1964	0.000000
1965	0.000000	1965	0.000000
1966	0.000000	1966	0.000000
1967	0.000000	1967	0.000000
1968	0.000000	1968	0.000000
1969	0.000000	1969	0.000000
1970	1.565852	1970	0.000000
1971	0.000000	1971	0.000000
1972	0.000000	1972	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1973	0.000000	1973	0.000000
1974	0.000000	1974	0.000000
1975	0.000000	1975	0.000000
1976	0.000000	1976	0.000000
1977	0.000000	1977	0.000000
1978	0.000000	1978	0.000000
1979	0.000000	1979	0.000000
1980	0.000000	1980	0.000000
1981	0.000000	1981	0.000000
1982	0.000000	1982	0.000000
1983	0.000000	1983	0.000000
1984	0.000000	1984	0.000000
1985	3.031024	1985	0.000000
1986	109.980835	1986	0.000000
1987	1503.949175	1987	0.000000
1988	0.000000	1988	0.000000
1989	0.000000	1989	0.000000
1990	0.000000	1990	0.000000
1991	0.000000	1991	0.000000
1992	355.763077	1992	0.000000
1993	0.000000	1993	0.000000
1994	0.000000	1994	0.000000
1995	0.000000	1995	0.000000
1996	1566.544636	1996	0.000000
1997	0.000000	1997	0.058967
1998	1775.065298	1998	0.000000
1999	0.000000	1999	0.006691
2000	0.000000	2000	0.024207
2001	0.000000	2001	0.046581
2002	0.000000	2002	0.071996
2003	0.000000	2003	0.099724
2004	0.000000	2004	0.129579
2005	0.000000	2005	0.159434
2006	243.369551	2006	0.000000
2007	7541.230684	2007	0.000000
2008	707.630708	2008	0.000000
2009	585.674874	2009	0.000000
2010	355.615719	2010	0.000000
2011	135989.253809	2011	0.000000
2012	135989.253809	2012	0.000000
2013	0.000000	2013	0.000000
2014	0.000000	2014	0.000000
2015	20083.726560	2015	0.000000
2016	0.000000	2016	0.000000
2017	0.000000	2017	0.000000
2018	0.000000	2018	0.000000
2019	0.000000	2019	0.000000
2020	0.000000	2020	0.000000
2021	3644.999512	2021	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2022	0.000000	2022	0.000000
2023	29500.195310	2023	0.000000
2024	0.000000	2024	0.000000
2025	40160.402077	2025	0.000000
2026	59977.792970	2026	0.000000
2027	0.000000	2027	0.000000
2028	0.000000	2028	0.000000
2029	0.000000	2029	0.000000
2030	0.000000	2030	0.000000
2031	0.000000	2031	0.000000
2032	0.000000	2032	0.000000
2033	0.000000	2033	0.000000
2034	0.000000	2034	0.000000
2035	0.000000	2035	0.000000
2036	0.000000	2036	0.000000
2037	0.000000	2037	0.000000
2038	0.000000	2038	0.000000
2039	0.000000	2039	0.000000
2040	7897.263767	2040	0.000000
2041	19537.272754	2041	0.000000
2042	0.000000	2042	0.000000
2043	0.000000	2043	0.000000
2044	0.000000	2044	0.000000
2045	1.273973	2045	0.000000
2046	0.000000	2046	0.000000
2047	0.000000	2047	0.000000
2048	0.000000	2048	0.000000
2049	0.000000	2049	0.000000
2050	0.000000	2050	0.000000
2051	0.000000	2051	0.000000
2052	0.000000	2052	0.000000
2053	2.919697	2053	0.000000
2054	9.065606	2054	0.000000
2055	0.000000	2055	0.000000
2056	40.260269	2056	0.000000
2057	2975.443906	2057	0.000000
2058	137.237722	2058	0.000000
2059	3133.955624	2059	0.000000
2060	0.000000	2060	0.000000
2061	0.000000	2061	0.000000
2062	3952.827323	2062	0.000000
2063	0.000000	2063	0.000000
2064	0.000000	2064	0.000000
2065	0.000000	2065	0.000000
2066	0.000000	2066	0.000000
2067	0.000000	2067	0.000000
2068	0.000000	2068	0.000000
2069	0.000000	2069	0.000000
2070	0.000000	2070	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
2071	0.000000	2071	0.000000
2072	0.000000	2072	0.000000
2073	0.000000	2073	0.000000
2074	0.000000	2074	0.000000
2075	0.000000	2075	0.000000
2076	0.000000	2076	0.000000
2077	0.000000	2077	0.000000
2078	0.000000	2078	0.000000
2079	0.000000	2079	0.000000
2080	0.000000	2080	0.000000
2081	0.000000	2081	0.000000
2082	0.000000	2082	0.000000
2083	191.615814	2083	0.000000
2084	31.995235	2084	0.000000
2085	-0.000000	2085	0.000000
2086	0.000000	2086	0.000000
2087	1171.700639	2087	0.000000
2088	0.000000	2088	0.000000
2089	0.000000	2089	0.000000
2090	0.000000	2090	0.000000
2091	0.000000	2091	0.000000
2092	0.000000	2092	0.000000
2093	0.000000	2093	0.000000
2094	0.000000	2094	0.000000
2095	0.000000	2095	0.000000
2096	0.192667	2096	0.000000
2097	0.000000	2097	0.000000
2098	0.000000	2098	0.000000
2099	0.000000	2099	0.000000
2100	0.274335	2100	0.000000
2101	25755.734555	2101	0.000000
2102	0.000000	2102	0.000000
2103	1.363273	2103	0.000000
2104	0.000000	2104	0.000000
2105	0.000000	2105	0.000000
2106	0.000000	2106	0.000000
2107	0.000000	2107	0.000000
2108	0.000000	2108	0.000000
2109	0.000000	2109	0.000000
2110	0.000000	2110	0.000000
2111	2.762959	2111	0.000000
2112	0.000000	2112	0.000000
2113	0.000000	2113	0.000000
2114	0.000000	2114	0.000000
2115	0.000000	2115	0.000000
2116	0.000000	2116	0.000000
2117	0.000000	2117	0.000000
2118	0.000000	2118	0.000000
2119	0.000000	2119	0.000000

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
2120	0.000000	2120	0.000000
2121	0.000000	2121	0.000000
2122	0.000000	2122	0.000000
2123	0.000000	2123	0.000000
2124	0.000000	2124	0.000000
2125	0.000000	2125	0.000000
2126	1.601139	2126	0.000000
2127	0.000000	2127	0.000000
2128	0.000000	2128	0.000000
2129	0.000000	2129	0.000000
2130	0.000000	2130	0.000000
2131	0.000000	2131	0.000000
2132	0.000000	2132	0.000000
2133	0.000000	2133	0.000000
2134	0.000000	2134	0.000000
2135	0.000000	2135	0.000000
2136	0.000000	2136	0.000000
2137	1.834977	2137	0.000000
2138	0.000000	2138	0.000000
2139	0.000000	2139	0.000000
2140	0.000000	2140	0.000000
2141	0.000000	2141	0.000000
2142	0.000000	2142	0.000000
2143	0.000000	2143	0.000000
2144	0.000000	2144	0.000000
2145	0.000000	2145	0.000000
2146	0.000000	2146	0.000000
2147	0.000000	2147	0.000000
2148	0.000000	2148	0.000000
2149	513.629507	2149	0.000000
2150	0.000000	2150	0.000000
2151	0.000000	2151	0.000000
2152	168.667434	2152	0.000000
2153	670.412796	2153	0.000000
2154	0.000000	2154	0.000000
2155	0.000000	2155	0.000000
2156	0.000000	2156	0.000000
2157	0.000000	2157	0.000000
2158	0.000000	2158	0.000000
2159	0.000000	2159	0.000000
2160	705.075940	2160	0.000000
2161	0.000000	2161	0.000000
2162	1794.307483	2162	0.000000
2163	0.000000	2163	0.323417
2164	2033.811866	2164	0.000000
2165	0.000000	2165	0.036704
2166	0.000000	2166	0.132770
2167	0.000000	2167	0.255485
2168	0.000000	2168	0.394876

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
2169	0.000000	2169	0.546956
2170	0.000000	2170	0.710699
2171	0.000000	2171	0.874442
2172	282.056973	2172	0.000000

3 Variáveis Duais (Multiplicadores de Lagrange)

Tabela 2: Variáveis duais do problema pilotnov

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

Continua na próxima página

Coordenada y	Valor y
37	-0.000000
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
64	-0.000000
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	-0.000701
78	-0.000000
79	-0.000000
80	-0.000000
81	-0.000000
82	-0.000000
83	-0.000000
84	-0.000000
85	-0.000000
Continua na próxima página	

Coordenada y	Valor y
86	-0.000000
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	0.701320
114	0.701320
115	-0.000000
116	-0.000000
117	-0.000000
118	-0.000000
119	-0.000000
120	-0.000000
121	-0.000000
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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
Continua na próxima página	

Coordenada y	Valor y
135	-0.000000
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
151	-0.000000
152	-0.000000
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155	-0.000000
156	-0.000000
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166	-0.000000
167	-0.000000
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175	-0.000000
176	-0.000000
177	-0.000000
178	-0.000000
179	-0.000000
180	-0.000000
181	-0.000000
182	-0.000000
183	-0.000000
Continua na próxima página	

Coordenada y	Valor y
184	-0.000000
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	-0.000550
195	-0.000000
196	-0.000000
197	-0.000000
198	-0.000000
199	-1.140911
200	-0.000000
201	-0.000000
202	-0.000000
203	-0.000000
204	-0.000000
205	-0.000000
206	-0.000000
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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
Continua na próxima página	

Coordenada y	Valor y
233	-0.000000
234	-0.000000
235	-0.000000
236	0.549505
237	0.549505
238	-0.000000
239	-0.000000
240	-0.000000
241	-0.000000
242	-0.000000
243	-0.000000
244	-0.000000
245	-0.000000
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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

Continua na próxima página

Coordenada y	Valor y
282	-0.000000
283	-0.000000
284	-0.000000
285	-0.000000
286	-0.000000
287	-0.000000
288	-0.000000
289	-0.000000
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309	-0.000000
310	-0.000000
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312	-0.000000
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315	-0.000000
316	-0.000000
317	-0.000431
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319	-0.000000
320	-0.000000
321	-0.000000
322	-0.849028
323	-0.000000
324	-0.000000
325	-0.000000
326	-0.000000
327	-0.000000
328	-0.000000
329	-0.000000
330	-0.000000
Continua na próxima página	

Coordenada y	Valor y
331	-0.000000
332	-0.000000
333	-0.000000
334	-0.000000
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352	-0.000000
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358	-0.000000
359	0.430547
360	0.430547
361	-0.000000
362	-0.000000
363	-0.000000
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366	-0.000000
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375	-0.000000
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379	-0.000000
Continua na próxima página	

Coordenada y	Valor y
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428	-0.000000
Continua na próxima página	

Coordenada y	Valor y
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440	-0.000337
441	-0.000000
442	-0.000000
443	-0.000000
444	-0.000000
445	-0.662621
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471	-0.000000
472	-0.000000
473	-0.000000
474	-0.000000
475	-0.000000
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477	-0.000000
Continua na próxima página	

Coordenada y	Valor y
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482	0.337349
483	0.337349
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526	-0.000000

Continúa na próxima página

Coordenada y	Valor y
527	-0.000000
528	-0.000000
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530	-0.000000
531	-0.000000
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533	-0.000000
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566	-0.000000
567	-0.000000
568	-0.520603
569	-0.000000
570	-0.000000
571	-0.000000
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573	-0.000000
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575	-0.000000
Continua na próxima página	

Coordenada y	Valor y
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578	-0.000000
579	-0.000000
580	-0.000000
581	-0.000000
582	-0.000000
583	-0.000000
584	-0.000000
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619	-0.000000
620	-0.000000
621	-0.000000
622	-0.000000
623	-0.000000
624	-0.000000
Continua na próxima página	

Coordenada y	Valor y
625	-0.000000
626	-0.000000
627	-0.000000
628	-0.000000
629	-0.000000
630	-0.000000
631	-0.000000
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668	-0.000000
669	-0.000000
670	-0.000000
671	-0.000000
672	-0.000000
673	-0.000000
Continua na próxima página	

Coordenada y	Valor y
674	-0.000000
675	-0.000000
676	-0.000000
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678	-0.000000
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683	-0.000000
684	-0.000000
685	-0.000000
686	-0.000207
687	-0.000000
688	-0.000000
689	-0.000000
690	-0.000000
691	-0.406992
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693	-0.000000
694	-0.000000
695	-0.000000
696	-0.000000
697	-0.000000
698	-0.000000
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713	-0.000000
714	-0.000000
715	-0.000000
716	-0.000000
717	-0.000000
718	-0.000000
719	-0.000000
720	-0.000000
721	-0.000000
722	-0.000000
Continua na próxima página	

Coordenada y	Valor y
723	-0.000000
724	-0.000000
725	-0.000000
726	-0.000000
727	-0.000000
728	0.207100
729	0.207100
730	-0.000000
731	-0.000000
732	-0.000000
733	-0.000000
734	-0.000000
735	-0.000000
736	-0.000000
737	-0.000000
738	-0.000000
739	-0.000000
740	-0.000000
741	-0.000000
742	-0.000000
743	-0.000000
744	-0.000000
745	-0.000000
746	-0.000000
747	-0.000000
748	-0.000000
749	-0.000000
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755	-0.000000
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759	-0.000000
760	-0.000000
761	-0.000000
762	-0.000000
763	-0.000000
764	-0.000000
765	-0.000000
766	-0.000000
767	-0.000000
768	-0.000000
769	-0.000000
770	-0.000000
771	-0.000000
Continua na próxima página	

Coordenada y	Valor y
772	-0.000000
773	-0.000000
774	-0.000000
775	-0.000000
776	-0.000000
777	-0.000000
778	-0.000000
779	-0.000000
780	-0.000000
781	-0.000000
782	-0.000000
783	-0.000000
784	-0.000000
785	-0.000000
786	-0.000000
787	-0.000000
788	-0.000000
789	-0.000000
790	-0.000000
791	-0.000000
792	-0.000000
793	-0.000000
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795	-0.000000
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801	-0.000000
802	-0.000000
803	-0.000000
804	-0.000000
805	-0.000000
806	-0.000000
807	-0.000000
808	-0.000000
809	-0.000162
810	-0.000000
811	-0.000000
812	-0.000000
813	-0.000000
814	-0.316653
815	-0.000000
816	-0.000000
817	-0.000000
818	-0.000000
819	-0.000000
820	-0.000000
Continua na próxima página	

Coordenada y	Valor y
821	-0.000000
822	-0.000000
823	-0.000000
824	-0.000000
825	-0.000000
826	-0.000000
827	-0.000000
828	-0.000000
829	-0.000000
830	-0.000000
831	-0.000000
832	-0.000000
833	-0.000000
834	-0.000000
835	-0.000000
836	-0.000000
837	-0.000000
838	-0.000000
839	-0.000000
840	-0.000000
841	-0.000000
842	-0.000000
843	-0.000000
844	-0.000000
845	-0.000000
846	-0.000000
847	-0.000000
848	-0.000000
849	-0.000000
850	-0.000000
851	0.162271
852	0.162271
853	-0.000000
854	-0.000000
855	-0.000000
856	-0.000000
857	-0.000000
858	-0.000000
859	-0.000000
860	-0.000000
861	-0.000000
862	-0.000000
863	-0.000000
864	-0.000000
865	-0.000000
866	-0.000000
867	-0.000000
868	-0.000000
869	-0.000000
Continua na próxima página	

Coordenada y	Valor y
870	-0.000000
871	-0.000000
872	-0.000000
873	-0.000000
874	-0.000000
875	-0.000000
876	-0.000000
877	-0.000000
878	-0.000000
879	-0.000000
880	-0.000000
881	-0.000000
882	-0.000000
883	-0.000000
884	-0.000000
885	-0.000000
886	-0.000000
887	-0.000000
888	-0.000000
889	-0.000000
890	-0.000000
891	-0.000000
892	-0.000000
893	-0.000000
894	-0.000000
895	-0.000000
896	-0.000000
897	-0.000000
898	-0.000000
899	-0.000000
900	-0.000000
901	-0.000000
902	-0.000000
903	-0.000000
904	-0.000000
905	-0.000000
906	-0.000000
907	-0.000000
908	-0.000000
909	-0.000000
910	-0.000000
911	-0.000000
912	-0.000000
913	-0.000000
914	-0.000000
915	-0.000000
916	-0.000000
917	-0.000000
918	-0.000000
Continua na próxima página	

Coordenada y	Valor y
919	-0.000000
920	-0.000000
921	-0.000000
922	-0.000000
923	-0.000000
924	-0.000000
925	-0.000000
926	-0.000000
927	-0.000000
928	-0.000000
929	-0.000000
930	-0.000000
931	-0.000000
932	-0.000890
933	-0.000000
934	-0.000000
935	-0.000000
936	-0.000000
937	-0.245048
938	-0.000000
939	-0.000000
940	-0.000000
941	-0.000000
942	-0.000000
943	-0.000000
944	-0.000000
945	-0.000000
946	-0.000000
947	-0.000000
948	-0.000000
949	-0.000000
950	-0.000000
951	-0.000000
952	-0.000000
953	-0.000000
954	-0.000000
955	-0.000000
956	-0.000000
957	-0.000000
958	-0.000000
959	-0.000000
960	-0.000000
961	-0.000000
962	-0.000000
963	-0.000000
964	-0.000000
965	-0.000000
966	-0.000000
967	-0.000000
Continua na próxima página	

Coordenada y	Valor y
968	-0.000000
969	-0.000000
970	-0.000000
971	-0.000000
972	0.890000
973	0.890000
974	-0.000000
975	-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 pilotnov.
- As variáveis duais representam os multiplicadores de Lagrange das restrições.
- Os custos reduzidos (z) indicam o impacto de forçar variáveis não-básicas na base.