

Solução do Problema PILOT - Solver HiGHS

Análise Computacional

17 de setembro de 2025

1 Informações do Problema

Informações do Problema:

- Nome: PILOT
- Número de Variáveis: 3652
- Número de Restrições: 1441
- Inviabilidade Primal: 3.227e-08
- Inviabilidade Dual: 0.000e+00
- Valor Primal: -5.575e+02
- Valor Dual: 6.741e+01
- Gap: -5.135e-17
- Número de Iterações: 40

2 Variáveis Primais e Custos Reduzidos

Tabela 1: Variáveis primais e custos reduzidos do problema PILOT

Coordenada x	Valor x	Coordenada z	Valor z
1	850.000000	1	0.018045
2	469.000000	2	0.056549
3	1288.000000	3	0.023863
4	1018.772161	4	0.000000
5	719.000000	5	0.059888
6	869.000000	6	0.000771
7	534.000000	7	0.000854
8	1482.808557	8	0.000000
9	1190.849944	9	0.000000
10	842.947492	10	0.000000
11	1042.285977	11	0.000000
12	534.000000	12	0.000151

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Coordenada x	Valor x	Coordenada z	Valor z
13	1553.141445	13	0.000000
14	1377.572024	14	0.000000
15	1034.201388	15	0.000000
16	1324.868920	16	0.000000
17	534.000000	17	0.000388
18	1826.253313	18	0.000000
19	1552.643023	19	0.000000
20	824.000000	20	0.000000
21	869.000000	21	0.000001
22	928.977231	22	0.000000
23	2023.673932	23	0.000000
24	2029.762820	24	0.000000
25	824.000000	25	0.000005
26	869.000000	26	0.000004
27	534.000000	27	0.000009
28	2262.455963	28	0.000000
29	2218.059684	29	0.000000
30	1823.785723	30	0.000000
31	1507.109219	31	0.000000
32	722.526170	32	0.000000
33	2458.320696	33	0.000000
34	2367.035483	34	0.000000
35	1540.739571	35	0.000000
36	869.000000	36	0.000009
37	534.000000	37	0.000014
38	2657.370421	38	0.000000
39	2134.466208	39	0.000000
40	4084.554581	40	0.000000
41	869.000000	41	0.000015
42	1716.058796	42	0.000000
43	3653.461846	43	0.000000
44	2750.012639	44	0.000000
45	2991.075365	45	0.000000
46	150.000000	46	0.311096
47	256.000000	47	0.100907
48	452.000000	48	0.241713
49	157.000000	49	0.016700
50	297.000000	50	0.011838
51	525.000000	51	0.016387
52	169.000000	52	0.013105
53	328.000000	53	0.011766
54	595.000000	54	0.012855
55	182.000000	55	0.010533
56	363.000000	56	0.009683
57	658.000000	57	0.010335
58	197.000000	58	0.008233
59	401.000000	59	0.007652
60	727.000000	60	0.008024
61	212.000000	61	0.006370

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Coordenada x	Valor x	Coordenada z	Valor z
62	443.000000	62	0.005950
63	803.000000	63	0.006186
64	228.000000	64	0.003703
65	490.000000	65	0.003308
66	888.000000	66	0.003711
67	246.000000	67	0.003993
68	541.000000	68	0.003784
69	981.000000	69	0.003867
70	265.000000	70	0.008366
71	598.000000	71	0.007528
72	1084.000000	72	0.008139
73	133.883719	73	0.000000
74	0.058016	74	0.000000
75	21.354699	75	0.000000
76	77.891559	76	0.000000
77	31.470896	77	0.000000
78	339.309563	78	0.000000
79	109.487898	79	0.000000
80	10.939429	80	0.000000
81	88.856941	81	0.000000
82	235.361544	82	0.000000
83	38.670398	83	0.000000
84	129.740363	84	0.000000
85	27.443938	85	0.000000
86	129.749837	86	0.000000
87	59.744449	87	0.000000
88	33.600066	88	0.000000
89	97.745582	89	0.000000
90	145.109154	90	0.000000
91	189.293409	91	0.000000
92	120.226029	92	0.000000
93	405.543107	93	0.000000
94	54.986095	94	0.000000
95	99.453411	95	0.000000
96	389.072848	96	0.000000
97	109.487898	97	0.000000
98	10.939429	98	0.000000
99	88.856941	99	0.000000
100	235.361544	100	0.000000
101	38.670398	101	0.000000
102	129.740363	102	0.000000
103	27.443938	103	0.000000
104	129.749837	104	0.000000
105	59.744449	105	0.000000
106	33.600066	106	0.000000
107	97.745582	107	0.000000
108	145.109154	108	0.000000
109	189.293409	109	0.000000
110	120.226029	110	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
111	405.543107	111	0.000000
112	54.986095	112	0.000000
113	99.453411	113	0.000000
114	389.072848	114	0.000000
115	206.416216	115	0.000000
116	206.416216	116	0.000000
117	56.023075	117	0.000000
118	14.275000	118	0.110484
119	0.968000	119	0.133738
120	8.083000	120	0.155647
121	2.488000	121	0.138967
122	10.506000	122	0.210659
123	0.891000	123	0.125467
124	3.408000	124	0.136400
125	1.736000	125	0.116601
126	1.293000	126	0.156718
127	19.363000	127	0.112752
128	15.209000	128	0.112711
129	16.452988	129	0.138571
130	11.314000	130	0.136074
131	16.396988	131	0.165006
132	0.000000	132	0.110484
133	0.000000	133	0.133738
134	0.000000	134	0.155647
135	0.000000	135	0.138967
136	0.000000	136	0.210659
137	0.000000	137	0.125467
138	0.000000	138	0.136400
139	0.000000	139	0.116601
140	0.000000	140	0.156718
141	0.000000	141	0.112752
142	0.000000	142	0.112711
143	0.000000	143	0.138571
144	0.000000	144	0.136074
145	0.000000	145	0.165006
146	3.516000	146	-0.110484
147	2.294000	147	-0.133738
148	10.107000	148	-0.155647
149	3.430000	149	-0.138967
150	5.877000	150	-0.210659
151	1.376000	151	-0.125467
152	11.130000	152	-0.136400
153	5.103000	153	-0.116601
154	3.577000	154	-0.156718
155	6.459000	155	-0.112752
156	18.215988	156	-0.112711
157	16.721000	157	-0.138571
158	2.613000	158	-0.136074
159	127.125087	159	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
160	135.645326	160	0.000000
161	170.861807	161	0.000000
162	0.737055	162	0.000000
163	18.203975	163	0.000000
164	71.770295	164	0.000000
165	50.066486	165	0.000000
166	390.331260	166	0.000000
167	125.238773	167	0.000000
168	12.949714	168	0.000000
169	100.638488	169	0.000000
170	261.278913	170	0.000000
171	44.794392	171	0.000000
172	154.086963	172	0.000000
173	30.963317	173	0.000000
174	149.757339	174	0.000000
175	68.861582	175	0.000000
176	37.097013	176	0.000000
177	128.200928	177	0.000000
178	172.305598	178	0.000000
179	221.602727	179	0.000000
180	138.911013	180	0.000000
181	474.500358	181	0.000000
182	69.860964	182	0.000000
183	120.180821	183	0.000000
184	459.387057	184	0.000000
185	103.015976	185	-0.027301
186	10.191000	186	-0.013650
187	75.523987	187	-0.011453
188	209.981827	188	-0.010154
189	39.094392	189	0.000000
190	118.262985	190	-0.023768
191	24.568985	191	-0.036564
192	109.098984	192	-0.019464
193	52.693000	193	-0.015797
194	29.466980	194	-0.018201
195	83.800928	195	0.000000
196	118.500000	196	-0.020354
197	165.030975	197	-0.020614
198	95.589981	198	-0.020458
199	345.940674	199	-0.006198
200	47.873978	200	-0.059625
201	90.217987	201	-0.006906
202	325.242920	202	-0.005738
203	22.222797	203	0.000000
204	2.758714	204	0.000000
205	25.114501	205	0.000000
206	51.297086	206	0.000000
207	5.700000	207	0.042975
208	35.823978	208	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
209	6.394332	209	0.000000
210	40.658355	210	0.000000
211	16.168582	211	0.000000
212	7.630033	212	0.000000
213	44.400000	213	0.013974
214	53.805598	214	0.000000
215	56.571752	215	0.000000
216	43.321032	216	0.000000
217	128.559684	217	0.000000
218	21.986986	218	0.000000
219	29.962834	219	0.000000
220	0.000000	220	0.008309
221	134.144137	221	0.000000
222	250.507965	222	0.000000
223	204.507965	223	-0.031811
224	46.000000	224	0.095941
225	66.045853	225	0.000000
226	18.728775	226	0.024515
227	2.063775	227	0.012600
228	13.256107	228	0.021747
229	3.264254	229	0.014179
230	16.368317	230	0.037740
231	1.169000	231	0.052518
232	5.030205	232	0.019803
233	4.412908	233	0.040473
234	3.286803	234	0.073667
235	32.012197	235	0.000000
236	19.954178	236	0.025563
237	21.586304	237	0.026934
238	12.988466	238	0.042620
239	18.823715	239	0.015096
240	0.000000	240	0.052803
241	0.000000	241	0.028089
242	0.000000	242	0.048819
243	0.000000	243	0.036406
244	0.000000	244	0.062589
245	0.000000	245	0.081386
246	0.000000	246	0.045423
247	0.000000	247	0.048054
248	0.000000	248	0.089121
249	0.000000	249	0.017144
250	0.000000	250	0.046024
251	0.000000	251	0.044561
252	0.000000	252	0.068470
253	0.000000	253	0.040945
254	4.219198	254	-0.024515
255	3.211598	255	-0.012600
256	14.149795	256	-0.021747
257	4.116000	257	-0.014179

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Coordenada x	Valor x	Coordenada z	Valor z
258	8.815500	258	-0.037740
259	2.064000	259	-0.052518
260	15.582000	260	-0.019803
261	10.206000	261	-0.040473
262	7.511697	262	-0.073667
263	11.122394	263	0.000000
264	25.502365	264	-0.025563
265	28.425674	265	-0.026934
266	3.658198	266	-0.042620
267	167.188728	267	0.000000
268	194.836708	268	0.000000
269	188.547267	269	0.000000
270	14.200198	270	0.000000
271	31.511625	271	0.000000
272	115.939702	272	0.000000
273	60.317396	273	0.000000
274	485.758309	274	0.000000
275	177.500318	275	0.000000
276	19.447533	276	0.000000
277	134.788030	277	0.000000
278	356.321465	278	0.000000
279	56.880128	279	0.000000
280	203.677412	280	0.000000
281	42.851861	281	0.000000
282	201.044378	282	0.000000
283	53.694849	283	0.000000
284	27.399015	284	0.000000
285	102.487982	285	0.000000
286	165.487969	286	0.000000
287	215.594659	287	0.000000
288	177.191835	288	0.000000
289	578.395712	289	0.000000
290	90.562213	290	0.000000
291	141.085949	291	0.000000
292	550.761249	292	0.000000
293	69.111984	293	-0.008445
294	6.837000	294	-0.001677
295	50.667984	295	-0.001017
296	140.873886	296	-0.003480
297	27.506989	297	-0.013146
298	79.340988	298	-0.006815
299	16.482986	299	-0.011247
300	73.192978	300	-0.007153
301	35.350983	301	-0.004344
302	19.768982	302	-0.003249
303	58.087982	303	-0.011266
304	79.500000	304	-0.013607
305	110.716980	305	-0.017936
306	64.130000	306	-0.007194

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Coordenada x	Valor x	Coordenada z	Valor z
307	232.086929	307	-0.004768
308	32.117981	308	-0.019712
309	60.525986	309	-0.004412
310	218.200958	310	-0.005099
311	86.165537	311	0.000000
312	9.851819	312	0.000000
313	59.005545	313	0.000000
314	164.150493	314	0.000000
315	0.000000	315	0.000783
316	23.673139	316	0.000000
317	88.512446	317	0.000000
318	19.974543	318	0.000000
319	87.193045	319	0.000000
320	2.175284	320	0.000000
321	0.000000	321	0.002308
322	0.000000	322	0.000573
323	0.000000	323	0.001316
324	32.182371	324	0.000000
325	48.305927	325	0.000000
326	69.740803	326	0.000000
327	217.749100	327	0.000000
328	0.000000	328	0.002495
329	36.457245	329	0.000000
330	50.597129	330	0.000000
331	0.000000	331	0.001373
332	198.416154	332	0.000000
333	0.000000	333	0.001513
334	274.950594	334	0.000000
335	194.527985	335	-0.027386
336	36.667409	336	0.000000
337	80.291811	337	0.000000
338	26.540024	338	-0.015269
339	2.924517	339	-0.021332
340	18.784866	340	-0.014524
341	0.000000	341	0.000000
342	23.195114	342	-0.012890
343	1.656544	343	-0.005570
344	7.128160	344	-0.012302
345	0.000000	345	0.001814
346	0.000000	346	0.000000
347	0.000000	347	0.000000
348	0.000000	348	0.008149
349	0.000000	349	0.007754
350	18.405579	350	-0.015154
351	26.674576	351	-0.012909
352	0.000000	352	0.018474
353	1.357971	353	-0.002857
354	0.000000	354	0.017768
355	0.000000	355	0.026513

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Coordenada x	Valor x	Coordenada z	Valor z
356	0.000000	356	0.016752
357	0.000000	357	0.028866
358	0.000000	358	0.018258
359	0.000000	359	0.009698
360	0.000000	360	0.018434
361	0.000000	361	0.018178
362	0.000000	362	0.027133
363	0.000000	363	0.026445
364	0.000000	364	0.015681
365	0.000000	365	0.017926
366	0.000000	366	0.015269
367	0.000000	367	0.021332
368	0.000000	368	0.014524
369	1.534459	369	0.000000
370	0.000000	370	0.012890
371	0.000000	371	0.005570
372	0.000000	372	0.012302
373	15.309000	373	-0.001814
374	9.310856	374	0.000000
375	23.764312	375	0.000000
376	45.539963	376	-0.008149
377	48.490860	377	-0.007754
378	0.000000	378	0.015154
379	137.243733	379	0.000000
380	164.891713	380	0.000000
381	230.609940	381	0.000000
382	17.533698	382	0.000000
383	40.277893	383	0.000000
384	128.984675	384	0.000000
385	67.939556	385	0.000000
386	587.115189	386	0.000000
387	216.181388	387	0.000000
388	21.743513	388	0.000000
389	157.881315	389	0.000000
390	443.896603	390	0.000000
391	48.016412	391	0.000000
392	189.688909	392	0.000000
393	45.071789	393	0.000000
394	172.807401	394	0.000000
395	88.890717	395	0.000000
396	35.722461	396	0.000000
397	271.883546	397	0.000000
398	316.511720	398	0.000000
399	247.591254	399	0.000000
400	211.772094	400	0.000000
401	657.962550	401	0.000000
402	106.679779	402	0.000000
403	164.464148	403	0.000000
404	629.897633	404	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
405	37.815979	405	-0.007929
406	3.741000	406	-0.002501
407	27.723984	407	-0.001518
408	77.081924	408	-0.003210
409	15.051000	409	-0.011799
410	43.412979	410	-0.007054
411	9.019000	411	-0.011351
412	40.048981	412	-0.006386
413	19.342987	413	-0.004312
414	10.817000	414	-0.004451
415	0.000000	415	0.001198
416	43.500000	416	-0.002412
417	60.580978	417	-0.000416
418	35.089981	418	-0.006581
419	126.990952	419	-0.003070
420	17.574000	420	-0.019112
421	33.117981	421	-0.002744
422	119.392960	422	-0.002472
423	73.310494	423	0.000000
424	5.805787	424	0.000000
425	49.804460	425	0.000000
426	159.061663	426	0.000000
427	0.000000	427	0.000738
428	4.447273	428	0.000000
429	27.313102	429	0.000000
430	10.643064	430	0.000000
431	11.005773	431	0.000000
432	53.629151	432	0.000000
433	0.000000	433	0.001880
434	18.419933	434	0.000000
435	0.000000	435	0.011864
436	234.143546	436	0.000000
437	0.000000	437	0.009346
438	195.094591	438	0.000000
439	0.000000	439	0.015075
440	90.618360	440	0.000000
441	70.118432	441	0.000000
442	0.000000	442	0.003053
443	203.946767	443	0.000000
444	33.959595	444	0.000000
445	0.000000	445	0.003104
446	55.280629	446	0.000000
447	0.000000	447	0.004706
448	198.066002	448	0.000000
449	338.339772	449	0.000000
450	185.035004	450	-0.019384
451	76.806803	451	0.000000
452	92.497718	452	0.000000
453	30.839523	453	-0.001536

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Coordenada x	Valor x	Coordenada z	Valor z
454	3.398289	454	-0.007495
455	21.828018	455	-0.001726
456	0.000000	456	0.010001
457	0.000000	457	0.000000
458	0.000000	458	0.007702
459	0.000000	459	0.000421
460	0.000000	460	0.007818
461	0.000000	461	0.010713
462	44.446030	462	-0.002610
463	32.857315	463	-0.000878
464	0.000000	464	0.001262
465	21.387283	465	-0.002053
466	30.995850	466	-0.000290
467	0.000000	467	0.019045
468	0.000000	468	0.003774
469	0.000000	469	0.017970
470	0.000000	470	0.026172
471	0.000000	471	0.018080
472	0.000000	472	0.028705
473	0.000000	473	0.019061
474	0.000000	474	0.012839
475	0.000000	475	0.021956
476	0.000000	476	0.007092
477	0.000000	477	0.010700
478	0.000000	478	0.011237
479	0.000000	479	0.016753
480	0.000000	480	0.018517
481	0.000000	481	0.001536
482	0.000000	482	0.007495
483	0.000000	483	0.001726
484	9.947000	484	-0.010001
485	11.632205	485	0.000000
486	3.990397	486	-0.007702
487	32.277000	487	-0.000421
488	21.432587	488	-0.007818
489	15.023397	489	-0.010713
490	0.000000	490	0.002610
491	0.000000	491	0.000878
492	81.932846	492	-0.001262
493	0.000000	493	0.002053
494	176.155088	494	0.000000
495	203.803068	495	0.000000
496	276.135920	496	0.000000
497	17.781230	497	0.000000
498	46.972234	498	0.000000
499	140.540419	499	0.000000
500	79.836719	500	0.000000
501	668.111860	501	0.000000
502	201.280169	502	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
503	26.568214	503	0.000000
504	181.204469	504	0.000000
505	376.747925	505	0.000000
506	57.917369	506	0.000000
507	288.477721	507	0.000000
508	51.049148	508	0.000000
509	294.580250	509	0.000000
510	110.096374	510	0.000000
511	40.227209	511	0.000000
512	385.846486	512	0.000000
513	399.625759	513	0.000000
514	298.285438	514	0.000000
515	251.616585	515	0.000000
516	736.015413	516	0.000000
517	141.096662	517	0.000000
518	190.453130	518	0.000000
519	755.642941	519	0.000000
520	16.952000	520	-0.003167
521	1.677000	521	-0.000766
522	12.428000	522	-0.000502
523	34.553970	523	-0.001333
524	6.747000	524	-0.004610
525	19.461000	525	-0.002778
526	4.043000	526	-0.004462
527	17.952988	527	-0.002624
528	8.671000	528	-0.001505
529	4.849000	529	-0.000567
530	0.000000	530	0.001895
531	19.500000	531	-0.000456
532	0.000000	532	0.001111
533	15.730000	533	-0.002707
534	0.000000	534	0.000067
535	7.878000	535	-0.007598
536	0.000000	536	0.000064
537	0.000000	537	0.000898
538	25.554430	538	0.000000
539	9.194088	539	0.000000
540	55.004320	540	0.000000
541	15.390976	541	0.000000
542	0.000000	542	0.000703
543	23.465928	543	0.000000
544	146.764851	544	0.000000
545	15.867840	545	0.000000
546	169.145306	546	0.000000
547	37.054510	547	0.000000
548	0.000000	548	0.001076
549	12.761758	549	0.000000
550	0.000000	550	0.009164
551	127.282939	551	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
552	0.000000	552	0.006689
553	128.083074	553	0.000000
554	0.000000	554	0.011542
555	135.492576	555	0.000000
556	82.661902	556	0.000000
557	0.000000	557	0.005317
558	276.274086	558	0.000000
559	56.177566	559	0.000000
560	0.000000	560	0.005075
561	75.685383	561	0.000000
562	0.000000	562	0.007520
563	315.143932	563	0.000000
564	389.779074	564	0.000000
565	176.005280	565	-0.012232
566	67.950300	566	0.000000
567	110.759020	567	0.000000
568	35.835526	568	-0.003699
569	3.948812	569	-0.003839
570	25.364151	570	-0.002933
571	0.000000	571	0.002375
572	31.319061	572	-0.002101
573	0.000000	573	0.002948
574	9.624759	574	-0.001635
575	0.000000	575	0.004379
576	0.000000	576	0.005712
577	51.646301	577	-0.002126
578	38.180206	578	-0.002064
579	0.000000	579	0.000000
580	24.852036	580	-0.002393
581	0.000000	581	0.000881
582	0.000000	582	0.010917
583	0.000000	583	0.004163
584	0.000000	584	0.011055
585	0.000000	585	0.013859
586	0.000000	586	0.010738
587	0.000000	587	0.017864
588	0.000000	588	0.011602
589	0.000000	589	0.008145
590	0.000000	590	0.013697
591	0.000000	591	0.004764
592	0.000000	592	0.006159
593	0.000000	593	0.007084
594	0.000000	594	0.010963
595	0.000000	595	0.014237
596	0.000000	596	0.003699
597	0.000000	597	0.003839
598	0.000000	598	0.002933
599	12.691000	599	-0.002375
600	0.000000	600	0.002101

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Coordenada x	Valor x	Coordenada z	Valor z
601	5.091197	601	-0.002948
602	0.000000	602	0.001635
603	30.618000	603	-0.004379
604	21.462000	604	-0.005712
605	0.000000	605	0.002126
606	0.000000	606	0.002064
607	100.340285	607	0.000000
608	0.000000	608	0.002393
609	203.730235	609	0.000000
610	231.378215	610	0.000000
611	272.584366	611	0.000000
612	19.135649	612	0.000000
613	51.691505	613	0.000000
614	141.042127	614	0.000000
615	80.575933	615	0.000000
616	804.737165	616	0.000000
617	220.072586	617	0.000000
618	30.186733	618	0.000000
619	197.657201	619	0.000000
620	403.957850	620	0.000000
621	79.880512	621	0.000000
622	320.516576	622	0.000000
623	54.796572	623	0.000000
624	292.702471	624	0.000000
625	129.274878	625	0.000000
626	43.487683	626	0.000000
627	464.145180	627	0.000000
628	448.909877	628	0.000000
629	422.071857	629	0.000000
630	299.241161	630	0.000000
631	854.754419	631	0.000000
632	230.423360	632	0.000000
633	219.344270	633	0.000000
634	874.290898	634	0.000000
635	6.520000	635	-0.001171
636	0.645000	636	-0.000104
637	4.780000	637	-0.000049
638	13.289989	638	-0.000553
639	2.595000	639	-0.001592
640	7.485000	640	-0.000867
641	1.555000	641	-0.001364
642	6.905000	642	-0.001175
643	3.335000	643	-0.000383
644	0.000000	644	0.001157
645	0.000000	645	0.001477
646	0.000000	646	0.000075
647	0.000000	647	0.000980
648	6.050000	648	-0.001253
649	0.000000	649	0.000872

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Coordenada x	Valor x	Coordenada z	Valor z
650	3.030000	650	-0.002266
651	0.000000	651	0.000897
652	0.000000	652	0.001839
653	72.737491	653	0.000000
654	9.304547	654	0.000000
655	56.807414	655	0.000000
656	136.967429	656	0.000000
657	0.000000	657	0.000687
658	35.594176	658	0.000000
659	85.412748	659	0.000000
660	15.742546	660	0.000000
661	49.176495	661	0.000000
662	38.062037	662	0.000000
663	0.000000	663	0.000733
664	13.161474	664	0.000000
665	0.000000	665	0.007273
666	126.740226	666	0.000000
667	0.000000	667	0.005270
668	123.844697	668	0.000000
669	0.000000	669	0.009175
670	168.842477	670	0.000000
671	101.740892	671	0.000000
672	0.000000	672	0.006042
673	253.223655	673	0.000000
674	116.801906	674	0.000000
675	0.000000	675	0.005830
676	61.351223	676	0.000000
677	0.000000	677	0.008661
678	248.125945	678	0.000000
679	449.872170	679	0.000000
680	167.416214	680	-0.006837
681	79.114362	681	0.000000
682	130.377456	682	0.000000
683	41.640854	683	-0.004036
684	4.588518	684	-0.001411
685	29.473129	685	-0.002920
686	0.000000	686	0.000000
687	36.392731	687	-0.003096
688	0.000000	688	0.001097
689	11.183962	689	-0.002113
690	0.000000	690	0.002506
691	0.000000	691	0.003284
692	60.012970	692	-0.001275
693	44.365387	693	-0.001922
694	0.000000	694	0.000000
695	28.878052	695	-0.001923
696	0.000000	696	0.001188
697	0.000000	697	0.006398
698	0.000000	698	0.004302

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Coordenada x	Valor x	Coordenada z	Valor z
699	0.000000	699	0.007065
700	0.000000	700	0.008198
701	0.000000	701	0.006528
702	0.000000	702	0.011746
703	0.000000	703	0.007337
704	0.000000	704	0.005338
705	0.000000	705	0.008984
706	0.000000	706	0.003644
707	0.000000	707	0.003948
708	0.000000	708	0.005057
709	0.000000	709	0.007612
710	0.000000	710	0.010722
711	0.000000	711	0.004036
712	0.000000	712	0.001411
713	0.000000	713	0.002920
714	3.186182	714	0.000000
715	0.000000	715	0.003096
716	6.604795	716	-0.001097
717	0.000000	717	0.002113
718	42.865189	718	-0.002506
719	30.046783	719	-0.003284
720	0.000000	720	0.001275
721	0.000000	721	0.001922
722	67.187248	722	0.000000
723	0.000000	723	0.001923
724	240.194938	724	0.000000
725	267.842918	725	0.000000
726	128.717410	726	0.000000
727	14.972375	727	0.000000
728	86.982067	728	0.000000
729	144.144065	729	0.000000
730	186.050390	730	0.000000
731	917.548770	731	0.000000
732	298.674024	732	0.000000
733	36.110873	733	0.000000
734	255.973382	734	0.000000
735	591.897660	735	0.000000
736	65.512499	736	0.000000
737	383.691448	737	0.000000
738	70.321190	738	0.000000
739	227.629276	739	0.000000
740	142.577643	740	0.000000
741	44.549699	741	0.000000
742	487.982452	742	0.000000
743	412.566613	743	0.000000
744	589.906828	744	0.000000
745	296.828520	745	0.000000
746	1013.983716	746	0.000000
747	241.941598	747	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
748	250.531218	748	0.000000
749	995.641936	749	0.000000
750	2.608000	750	-0.005419
751	0.258000	751	-0.000377
752	1.912000	752	-0.000123
753	5.316000	753	-0.002443
754	1.038000	754	-0.006109
755	2.994000	755	-0.004195
756	0.622000	756	-0.009243
757	2.762000	757	-0.005439
758	1.334000	758	-0.002134
759	0.746000	759	-0.007034
760	2.192000	760	-0.000090
761	3.000000	761	-0.002253
762	4.178000	762	-0.000382
763	2.420000	763	-0.006367
764	8.758000	764	-0.001940
765	1.212000	765	-0.015259
766	2.284000	766	-0.001391
767	8.234000	767	-0.001546
768	137.522831	768	0.000000
769	12.801342	769	0.000000
770	105.845006	770	0.000000
771	302.880655	771	0.000000
772	0.000000	772	0.000861
773	0.000000	773	0.000234
774	129.801861	774	0.000000
775	28.982226	775	0.000000
776	0.000000	776	0.000037
777	40.028560	777	0.000000
778	0.000000	778	0.000603
779	8.900765	779	0.000000
780	0.000000	780	0.005819
781	117.640777	781	0.000000
782	0.000000	782	0.004406
783	56.123125	783	0.000000
784	0.000000	784	0.007454
785	234.143907	785	0.000000
786	62.072569	786	0.000000
787	0.000000	787	0.005882
788	337.705123	788	0.000000
789	46.185973	789	0.000000
790	0.000000	790	0.005827
791	76.513508	791	0.000000
792	0.000000	792	0.008725
793	299.454896	793	0.000000
794	502.679410	794	0.000000
795	159.246292	795	-0.005916
796	74.761027	796	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
797	151.182013	797	0.000000
798	48.386673	798	-0.000302
799	5.331858	799	-0.004592
800	34.247772	800	-0.000593
801	0.000000	801	0.004804
802	42.288345	802	-0.000454
803	0.000000	803	0.007432
804	0.000000	804	0.000956
805	0.000000	805	0.001962
806	0.000000	806	0.013845
807	69.735062	807	-0.002101
808	19.594679	808	0.000000
809	55.769211	809	-0.000541
810	0.000000	810	0.000696
811	48.631973	811	-0.004032
812	0.000000	812	0.008364
813	0.000000	813	0.000153
814	0.000000	814	0.007701
815	0.000000	815	0.011613
816	0.000000	816	0.007996
817	0.000000	817	0.016276
818	0.000000	818	0.008804
819	0.000000	819	0.004433
820	0.000000	820	0.018816
821	0.000000	821	0.001984
822	0.000000	822	0.004875
823	0.000000	823	0.003660
824	0.000000	824	0.008615
825	0.000000	825	0.003887
826	0.000000	826	0.000302
827	0.000000	827	0.004592
828	0.000000	828	0.000593
829	20.922989	829	-0.004804
830	0.000000	830	0.000454
831	8.393596	831	-0.007432
832	67.892975	832	-0.000956
833	57.663879	833	-0.001962
834	40.420090	834	-0.013845
835	0.000000	835	0.002101
836	0.000000	836	0.000000
837	0.000000	837	0.000541
838	12.281098	838	-0.000696
839	296.885964	839	0.000000
840	324.533944	840	0.000000
841	73.780930	841	0.000000
842	11.512791	842	0.000000
843	39.079215	843	0.000000
844	361.613338	844	0.000000
845	71.420449	845	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
846	1045.644526	846	0.000000
847	275.352097	847	0.000000
848	28.341519	848	0.000000
849	281.543313	849	0.000000
850	486.513326	850	0.000000
851	128.978689	851	0.000000
852	414.311049	852	0.000000
853	74.223274	853	0.000000
854	407.741989	854	0.000000
855	124.407268	855	0.000000
856	32.093470	856	0.000000
857	540.569597	857	0.000000
858	501.651059	858	0.000000
859	599.151148	859	0.000000
860	395.881872	860	0.000000
861	1211.007812	861	0.000000
862	465.994520	862	0.000000
863	286.627289	863	0.000000
864	1163.511601	864	0.000000
865	33.892144	865	0.000000
866	0.000000	866	0.000679
867	77.552235	867	0.000000
868	0.000000	868	0.000002
869	82.053247	869	0.000000
870	113.716965	870	0.000000
871	18.154635	871	0.000000
872	259.408385	872	0.000000
873	17.212751	873	0.000000
874	0.000000	874	0.001382
875	0.000000	875	0.001154
876	215.132085	876	0.000000
877	0.000000	877	0.000643
878	175.195758	878	0.000000
879	0.000000	879	0.001096
880	276.394292	880	0.000000
881	0.000000	881	0.001321
882	0.000000	882	0.002201
883	0.000000	883	0.004234
884	0.000000	884	0.000367
885	0.000000	885	0.000271
886	0.000000	886	0.001833
887	0.000000	887	0.005978
888	0.000000	888	0.005415
889	0.000000	889	0.003512
890	0.000000	890	0.007878
891	0.000000	891	0.004035
892	0.000000	892	0.001753
893	0.000000	893	0.002252
894	0.000000	894	0.007639

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Coordenada x	Valor x	Coordenada z	Valor z
895	0.000000	895	0.005276
896	184.438125	896	0.000000
897	0.000000	897	0.005834
898	0.000000	898	0.001822
899	0.000000	899	0.006789
900	116.656449	900	0.000000
901	0.000000	901	0.004673
902	0.000000	902	0.007056
903	426.922249	903	0.000000
904	0.000000	904	0.013154
905	0.000000	905	0.006971
906	95.960269	906	0.000000
907	0.000000	907	0.010426
908	403.755167	908	0.000000
909	558.169848	909	0.000000
910	151.475067	910	-0.002342
911	80.021256	911	0.000000
912	178.534991	912	0.000000
913	56.225311	913	-0.003112
914	0.000000	914	0.000000
915	39.795914	915	-0.002298
916	9.799551	916	-0.001215
917	49.139053	917	-0.002744
918	0.000000	918	0.000613
919	15.101077	919	-0.002327
920	0.000000	920	0.001500
921	0.000000	921	0.000000
922	81.032150	922	-0.000842
923	59.904083	923	-0.001058
924	0.000000	924	0.000000
925	38.992401	925	-0.001903
926	0.000000	926	0.000671
927	0.000000	927	0.002752
928	0.000000	928	0.003210
929	0.000000	929	0.003314
930	0.000000	930	0.003392
931	0.000000	931	0.003231
932	0.000000	932	0.006597
933	0.000000	933	0.002983
934	0.000000	934	0.003252
935	0.000000	935	0.003555
936	0.000000	936	0.001922
937	0.000000	937	0.002241
938	0.000000	938	0.002842
939	0.000000	939	0.003455
940	0.000000	940	0.006029
941	0.000000	941	0.003112
942	0.641787	942	0.000000
943	0.000000	943	0.002298

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Coordenada x	Valor x	Coordenada z	Valor z
944	0.000000	944	0.001215
945	0.000000	945	0.002744
946	10.870395	946	-0.000613
947	0.000000	947	0.002327
948	78.075882	948	-0.001500
949	48.992496	949	0.000000
950	0.000000	950	0.000842
951	0.000000	951	0.001058
952	63.158412	952	0.000000
953	0.000000	953	0.001903
954	337.958546	954	0.000000
955	365.606526	955	0.000000
956	401.010459	956	0.000000
957	3.257871	957	0.000000
958	5.966419	958	0.000000
959	138.116699	959	0.000000
960	0.800355	960	0.000000
961	1270.982547	961	0.000000
962	314.404558	962	0.000000
963	34.798467	963	0.000000
964	214.817301	964	0.000000
965	544.179348	965	0.000000
966	148.459239	966	0.000000
967	507.469587	967	0.000000
968	71.469342	968	0.000000
969	539.238515	969	0.000000
970	100.568448	970	0.000000
971	19.836894	971	0.000000
972	728.774141	972	0.000000
973	680.976020	973	0.000000
974	453.892409	974	0.000000
975	446.515121	975	0.000000
976	1450.197941	976	0.000000
977	431.799846	977	0.000000
978	327.086840	978	0.000000
979	1345.820953	979	0.000000
980	139.476598	980	0.000000
981	15.428135	981	0.000000
982	71.923165	982	0.000000
983	183.437271	983	0.000000
984	121.387576	984	0.000000
985	306.312849	985	0.000000
986	32.146056	986	0.000000
987	464.444887	987	0.000000
988	30.874745	988	0.000000
989	0.000000	989	0.004413
990	0.000000	990	0.000929
991	512.017433	991	0.000000
992	0.000000	992	0.000023

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Coordenada x	Valor x	Coordenada z	Valor z
993	306.631588	993	0.000000
994	0.000000	994	0.004361
995	309.037507	995	0.000000
996	0.000000	996	0.003959
997	0.000000	997	0.006803
998	0.000000	998	0.003552
999	0.000000	999	0.000049
1000	0.000000	1000	0.000573
1001	0.000000	1001	0.001420
1002	0.000000	1002	0.005716
1003	0.000000	1003	0.005356
1004	0.000000	1004	0.003216
1005	0.000000	1005	0.006749
1006	0.000000	1006	0.002968
1007	0.000000	1007	0.001852
1008	0.000000	1008	0.002181
1009	0.000000	1009	0.006133
1010	0.000000	1010	0.003413
1011	319.399142	1011	0.000000
1012	0.000000	1012	0.004838
1013	0.000000	1013	0.001925
1014	0.000000	1014	0.004895
1015	0.000000	1015	0.000424
1016	0.000000	1016	0.003310
1017	0.000000	1017	0.004847
1018	496.602674	1018	0.000000
1019	0.000000	1019	0.011488
1020	0.000000	1020	0.004965
1021	105.367652	1021	0.000000
1022	0.000000	1022	0.007517
1023	442.546464	1023	0.000000
1024	786.641019	1024	0.000000
1025	144.083069	1025	-0.003945
1026	255.709905	1026	0.000000
1027	205.922796	1027	0.000000
1028	65.333786	1028	-0.009983
1029	7.199305	1029	-0.000052
1030	46.242844	1030	-0.007446
1031	11.387074	1031	-0.003163
1032	57.099564	1032	-0.009288
1033	1.763824	1033	0.000000
1034	17.547440	1034	-0.007969
1035	0.000000	1035	0.000966
1036	0.000000	1036	0.000000
1037	94.159302	1037	-0.001534
1038	69.608521	1038	-0.003518
1039	0.000000	1039	0.000000
1040	45.309158	1040	-0.002833
1041	65.665000	1041	-0.001079

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Coordenada x	Valor x	Coordenada z	Valor z
1042	0.000000	1042	0.004116
1043	0.000000	1043	0.007667
1044	0.000000	1044	0.006046
1045	0.000000	1045	0.007915
1046	0.000000	1046	0.005822
1047	0.000000	1047	0.014388
1048	0.000000	1048	0.004800
1049	0.000000	1049	0.005423
1050	0.000000	1050	0.008935
1051	0.000000	1051	0.005113
1052	0.000000	1052	0.004414
1053	0.000000	1053	0.006833
1054	0.000000	1054	0.010050
1055	0.000000	1055	0.011805
1056	0.000000	1056	0.009983
1057	0.000000	1057	0.000052
1058	0.000000	1058	0.007446
1059	0.000000	1059	0.003163
1060	0.000000	1060	0.009288
1061	0.000000	1061	0.000000
1062	0.000000	1062	0.007969
1063	105.632065	1063	-0.000966
1064	54.516380	1064	0.000000
1065	0.000000	1065	0.001534
1066	0.000000	1066	0.003518
1067	267.670401	1067	0.000000
1068	0.000000	1068	0.002833
1069	477.824738	1069	0.000000
1070	505.472718	1070	0.000000
1071	0.000000	1071	2.233034
1072	0.000000	1072	2.020899
1073	0.000000	1073	0.899972
1074	0.000000	1074	0.868085
1075	0.000000	1075	0.655946
1076	0.000000	1076	-0.464979
1077	0.000000	1077	1.815832
1078	0.000000	1078	1.610991
1079	0.000000	1079	0.522513
1080	0.619832	1080	0.000000
1081	0.000000	1081	-0.212135
1082	0.000000	1082	-1.333061
1083	0.000000	1083	1.132350
1084	0.000000	1084	0.927509
1085	0.000000	1085	-0.160968
1086	0.000000	1086	0.745675
1087	0.000000	1087	0.533541
1088	0.000000	1088	-0.587386
1089	0.000000	1089	1.870479
1090	0.000000	1090	1.865581

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1091	0.000000	1091	1.869647
1092	0.000000	1092	1.883000
1093	0.139370	1093	0.000000
1094	0.000000	1094	0.320440
1095	0.000000	1095	0.400505
1096	0.000000	1096	0.435774
1097	0.000000	1097	1.137416
1098	0.000000	1098	1.057443
1099	0.000000	1099	1.276055
1100	0.299867	1100	0.000000
1101	0.000000	1101	0.077523
1102	0.000000	1102	0.267752
1103	0.000000	1103	0.543425
1104	1.081621	1104	0.000000
1105	0.000000	1105	0.000036
1106	0.000000	1106	0.000007
1107	0.000000	1107	-0.000013
1108	0.000000	1108	-0.000025
1109	0.000000	1109	-0.000027
1110	0.000000	1110	-0.000027
1111	0.000000	1111	-0.000025
1112	0.000000	1112	-0.000019
1113	1056.262977	1113	0.000000
1114	44.942406	1114	0.000000
1115	219.480986	1115	0.000000
1116	0.000000	1116	-0.735353
1117	0.000000	1117	0.459529
1118	0.000000	1118	0.008271
1119	125.000000	1119	0.372789
1120	2.660467	1120	0.000000
1121	5.744611	1121	0.000000
1122	0.610256	1122	0.000000
1123	11.614788	1123	0.000000
1124	0.000000	1124	1.576505
1125	0.000000	1125	1.503672
1126	0.000000	1126	1.012477
1127	0.000000	1127	0.847245
1128	0.000000	1128	0.774409
1129	0.000000	1129	0.283216
1130	0.000000	1130	1.788785
1131	0.000000	1131	1.723630
1132	0.000000	1132	1.266592
1133	0.000000	1133	0.564028
1134	0.000000	1134	0.491194
1135	1.001387	1135	0.000000
1136	0.000000	1136	1.476393
1137	0.000000	1137	1.411237
1138	0.000000	1138	0.954200
1139	0.000000	1139	1.009099

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Coordenada x	Valor x	Coordenada z	Valor z
1140	0.000000	1140	0.936265
1141	0.000000	1141	0.445071
1142	0.000000	1142	0.927670
1143	0.000000	1143	0.952868
1144	0.000000	1144	0.965181
1145	0.000000	1145	0.980420
1146	1.000441	1146	0.000000
1147	0.000000	1147	0.253711
1148	0.000000	1148	0.316791
1149	0.000000	1149	0.344500
1150	0.000000	1150	0.616853
1151	0.000000	1151	0.605492
1152	0.000000	1152	0.860222
1153	0.842221	1153	0.000000
1154	0.000000	1154	0.077922
1155	0.000000	1155	0.256001
1156	0.000000	1156	0.497712
1157	1.312662	1157	0.000000
1158	0.000000	1158	0.000071
1159	0.000000	1159	0.000042
1160	0.000000	1160	0.000019
1161	0.000000	1161	0.000005
1162	0.000000	1162	0.000002
1163	1314.350625	1163	0.000000
1164	0.000000	1164	0.000001
1165	0.000000	1165	0.000004
1166	0.000000	1166	0.000019
1167	0.000000	1167	0.000393
1168	197.732944	1168	0.000000
1169	0.000000	1169	0.000544
1170	656.141159	1170	0.000000
1171	0.085849	1171	-0.713860
1172	0.470787	1172	-0.195982
1173	0.332320	1173	-0.325797
1174	147.776133	1174	0.000000
1175	1.762304	1175	0.000000
1176	6.997665	1176	0.000000
1177	0.608797	1177	0.000000
1178	12.687136	1178	0.000000
1179	0.000000	1179	0.908047
1180	0.000000	1180	0.829020
1181	0.000000	1181	0.420422
1182	0.000000	1182	0.487626
1183	0.000000	1183	0.408597
1184	0.250000	1184	0.000000
1185	0.000000	1185	0.714754
1186	0.000000	1186	0.643810
1187	0.000000	1187	0.271165
1188	0.000000	1188	0.487625

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Coordenada x	Valor x	Coordenada z	Valor z
1189	0.000000	1189	0.408598
1190	0.561221	1190	0.000000
1191	0.000000	1191	0.583450
1192	0.000000	1192	0.512506
1193	0.000000	1193	0.139862
1194	0.000000	1194	0.896907
1195	0.000000	1195	0.817880
1196	0.000000	1196	0.409282
1197	0.000000	1197	0.428063
1198	0.000000	1198	0.429867
1199	0.000000	1199	0.432359
1200	0.000000	1200	0.437520
1201	1.000478	1201	0.000000
1202	0.000000	1202	0.097173
1203	0.000000	1203	0.120815
1204	0.000000	1204	0.131070
1205	0.000000	1205	0.224999
1206	0.000000	1206	0.203681
1207	0.000000	1207	0.288803
1208	0.626757	1208	0.000000
1209	0.000000	1209	0.028984
1210	0.000000	1210	0.098277
1211	0.000000	1211	0.196412
1212	1.440774	1212	0.000000
1213	0.000000	1213	0.000041
1214	0.000000	1214	0.000022
1215	0.000000	1215	0.000009
1216	0.000000	1216	0.000001
1217	1597.985948	1217	0.000000
1218	0.000000	1218	0.000000
1219	0.000000	1219	0.000002
1220	0.000000	1220	0.000006
1221	0.000000	1221	0.000018
1222	0.000000	1222	0.000413
1223	0.000000	1223	0.000118
1224	238.326329	1224	0.000000
1225	0.000000	1225	0.000092
1226	0.000000	1226	0.000414
1227	836.913204	1227	0.000000
1228	0.000000	1228	0.000069
1229	0.000000	1229	0.000594
1230	0.000000	1230	0.838455
1231	0.000000	1231	1.373648
1232	0.161044	1232	-0.382304
1233	0.883147	1233	-0.140924
1234	0.623398	1234	-0.414381
1235	200.795859	1235	0.000000
1236	0.944543	1236	0.000000
1237	7.229424	1237	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1238	0.628790	1238	0.000000
1239	14.285049	1239	0.000000
1240	0.000000	1240	0.553413
1241	0.000000	1241	0.486120
1242	0.000000	1242	0.143054
1243	0.000000	1243	0.410361
1244	0.000000	1244	0.343067
1245	0.350000	1245	0.000000
1246	0.000000	1246	0.466409
1247	0.000000	1247	0.407624
1248	0.000000	1248	0.102403
1249	0.000000	1249	0.410360
1250	0.000000	1250	0.343066
1251	0.816074	1251	0.000000
1252	0.000000	1252	0.419845
1253	0.000000	1253	0.361061
1254	0.000000	1254	0.055840
1255	0.000000	1255	0.633609
1256	0.000000	1256	0.566315
1257	0.000000	1257	0.223249
1258	0.000000	1258	0.204980
1259	0.000000	1259	0.210964
1260	0.000000	1260	0.214239
1261	0.000000	1261	0.218744
1262	1.050006	1262	0.000000
1263	0.000000	1263	0.069156
1264	0.000000	1264	0.085851
1265	0.000000	1265	0.093059
1266	0.000000	1266	0.119208
1267	0.000000	1267	0.112045
1268	0.000000	1268	0.187105
1269	0.591973	1269	0.000000
1270	0.000000	1270	0.023960
1271	0.000000	1271	0.079125
1272	0.000000	1272	0.154552
1273	1.772924	1273	0.000000
1274	0.000000	1274	0.000024
1275	0.000000	1275	0.000013
1276	0.000000	1276	0.000005
1277	0.000000	1277	0.000001
1278	1884.856872	1278	0.000000
1279	0.000000	1279	0.000001
1280	0.000000	1280	0.000002
1281	0.000000	1281	0.000005
1282	0.000000	1282	0.000015
1283	0.000000	1283	0.000375
1284	0.000000	1284	0.000129
1285	257.278080	1285	0.000000
1286	0.000000	1286	0.000032

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1287	0.000000	1287	0.000215
1288	0.000000	1288	0.000446
1289	0.000000	1289	0.000394
1290	0.000000	1290	0.000036
1291	919.563934	1291	0.000000
1292	0.000000	1292	0.000303
1293	0.000000	1293	0.000853
1294	0.000000	1294	0.001556
1295	0.000000	1295	0.523222
1296	0.000000	1296	0.857170
1297	0.224094	1297	-0.193178
1298	1.228903	1298	-0.064201
1299	0.867461	1299	-0.306874
1300	247.597598	1300	0.000000
1301	0.219055	1301	0.000000
1302	8.156769	1302	0.000000
1303	0.774885	1303	0.000000
1304	14.713524	1304	0.000000
1305	0.000000	1305	0.379195
1306	0.000000	1306	0.318676
1307	0.000000	1307	0.017353
1308	0.000000	1308	0.361843
1309	0.000000	1309	0.301323
1310	0.500000	1310	0.000000
1311	0.000000	1311	0.313049
1312	0.000000	1312	0.261486
1313	0.288194	1313	0.000000
1314	0.000000	1314	0.391637
1315	0.000000	1315	0.331117
1316	0.000000	1316	0.029794
1317	0.000000	1317	0.313973
1318	0.000000	1318	0.262410
1319	0.000000	1319	0.000924
1320	0.000000	1320	0.435910
1321	0.000000	1321	0.375390
1322	0.000000	1322	0.074067
1323	0.000000	1323	0.058999
1324	0.000000	1324	0.062839
1325	0.000000	1325	0.065095
1326	0.000000	1326	0.068379
1327	1.133717	1327	0.000000
1328	0.000000	1328	0.042514
1329	0.000000	1329	0.052272
1330	0.000000	1330	0.056355
1331	0.000000	1331	0.021019
1332	0.000000	1332	0.014449
1333	0.000000	1333	0.069057
1334	0.541853	1334	0.000000
1335	0.000000	1335	0.017741

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Coordenada x	Valor x	Coordenada z	Valor z
1336	0.000000	1336	0.058761
1337	0.000000	1337	0.115076
1338	2.042509	1338	0.000000
1339	0.000000	1339	0.000017
1340	0.000000	1340	0.000009
1341	0.000000	1341	0.000003
1342	0.000000	1342	0.000000
1343	2561.756610	1343	0.000000
1344	0.000000	1344	0.000000
1345	0.000000	1345	0.000002
1346	0.000000	1346	0.000004
1347	0.000000	1347	0.000011
1348	0.000000	1348	0.000362
1349	0.000000	1349	0.000141
1350	0.000000	1350	0.000003
1351	371.413719	1351	0.000000
1352	0.000000	1352	0.000104
1353	0.000000	1353	0.000251
1354	0.000000	1354	0.000431
1355	0.000000	1355	0.000101
1356	1316.830435	1356	0.000000
1357	0.000000	1357	0.000172
1358	0.000000	1358	0.000521
1359	0.000000	1359	0.000994
1360	0.000000	1360	0.393194
1361	0.000000	1361	0.644142
1362	0.227768	1362	-0.099463
1363	1.249052	1363	-0.080884
1364	0.881684	1364	-0.226762
1365	350.127479	1365	0.000000
1366	-0.000000	1366	0.000000
1367	8.156791	1367	0.000000
1368	0.963071	1368	0.000000
1369	18.682076	1369	0.000000
1370	0.000000	1370	0.294455
1371	0.000000	1371	0.245128
1372	0.050021	1372	0.000000
1373	0.000000	1373	0.294455
1374	0.000000	1374	0.245128
1375	0.600000	1375	0.000000
1376	0.000000	1376	0.247303
1377	0.000000	1377	0.206632
1378	0.116500	1378	0.000000
1379	0.000000	1379	0.356167
1380	0.000000	1380	0.306840
1381	0.000000	1381	0.061712
1382	0.000000	1382	0.263581
1383	0.000000	1383	0.222910
1384	0.000000	1384	0.016278

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Coordenada x	Valor x	Coordenada z	Valor z
1385	0.000000	1385	0.294455
1386	0.000000	1386	0.245128
1387	0.000000	1387	0.000000
1388	0.434402	1388	0.000000
1389	0.000000	1389	0.001590
1390	0.000000	1390	0.002936
1391	0.000000	1391	0.005337
1392	0.205092	1392	0.000000
1393	0.000000	1393	0.027494
1394	0.000000	1394	0.033380
1395	0.000000	1395	0.035728
1396	0.000000	1396	0.007964
1397	0.671515	1397	0.000000
1398	0.000000	1398	0.039719
1399	0.552023	1399	0.000000
1400	0.000000	1400	0.013426
1401	0.000000	1401	0.045021
1402	0.000000	1402	0.089124
1403	2.357404	1403	0.000000
1404	0.000000	1404	0.000011
1405	0.000000	1405	0.000006
1406	0.000000	1406	0.000002
1407	0.000000	1407	0.000000
1408	2889.991753	1408	0.000000
1409	0.000000	1409	0.000001
1410	0.000000	1410	0.000002
1411	0.000000	1411	0.000004
1412	0.000000	1412	0.000010
1413	0.000000	1413	0.000386
1414	0.000000	1414	0.000178
1415	0.000000	1415	0.000030
1416	374.611352	1416	0.000000
1417	0.000000	1417	0.000047
1418	0.000000	1418	0.000136
1419	0.000000	1419	0.000470
1420	0.000000	1420	0.000153
1421	1328.167553	1421	0.000000
1422	0.000000	1422	0.000079
1423	0.000000	1423	0.000285
1424	0.000000	1424	0.000597
1425	0.000000	1425	0.334968
1426	0.000000	1426	0.548697
1427	0.204563	1427	-0.076342
1428	1.121796	1428	-0.116835
1429	0.791856	1429	-0.121019
1430	370.072857	1430	0.000000
1431	0.000000	1431	0.030740
1432	6.730416	1432	0.000000
1433	1.384016	1433	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1434	20.623472	1434	0.000000
1435	0.000000	1435	0.229593
1436	0.000000	1436	0.191882
1437	0.000689	1437	0.000000
1438	0.000000	1438	0.229594
1439	0.000000	1439	0.191882
1440	0.600000	1440	0.000000
1441	0.000000	1441	0.204374
1442	0.000000	1442	0.171292
1443	0.124579	1443	0.000000
1444	0.000000	1444	0.282694
1445	0.000000	1445	0.244983
1446	0.000000	1446	0.053102
1447	0.000000	1447	0.218520
1448	0.000000	1448	0.185439
1449	0.000000	1449	0.014146
1450	0.000000	1450	0.229593
1451	0.000000	1451	0.191882
1452	0.000001	1452	0.000000
1453	0.904319	1453	0.000000
1454	0.000000	1454	0.000417
1455	0.000000	1455	0.001294
1456	0.000000	1456	0.003246
1457	0.128696	1457	0.000000
1458	0.000000	1458	0.022523
1459	0.000000	1459	0.027222
1460	0.000000	1460	0.029060
1461	0.000000	1461	0.008755
1462	0.381457	1462	0.000000
1463	0.000000	1463	0.032162
1464	0.533799	1464	0.000000
1465	0.000000	1465	0.011148
1466	0.000000	1466	0.037844
1467	0.000000	1467	0.075708
1468	2.634164	1468	0.000000
1469	0.000000	1469	0.000006
1470	0.000000	1470	0.000002
1471	0.000000	1471	0.000000
1472	3181.673792	1472	0.000000
1473	0.000000	1473	0.000000
1474	0.000000	1474	0.000001
1475	0.000000	1475	0.000003
1476	0.000000	1476	0.000005
1477	0.000000	1477	0.000010
1478	0.000000	1478	0.000449
1479	0.000000	1479	0.000236
1480	0.000000	1480	0.000066
1481	0.000000	1481	0.000006
1482	437.132586	1482	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1483	0.000000	1483	0.000038
1484	0.000000	1484	0.000558
1485	0.000000	1485	0.000226
1486	0.000000	1486	0.000009
1487	1405.212157	1487	0.000000
1488	0.000000	1488	0.000080
1489	0.000000	1489	0.000258
1490	0.000000	1490	0.316316
1491	0.000000	1491	0.518077
1492	0.179192	1492	-0.083905
1493	0.982668	1493	-0.071172
1494	0.693648	1494	-0.107081
1495	436.562037	1495	0.000000
1496	0.000000	1496	0.021229
1497	5.686277	1497	0.000000
1498	1.798249	1498	0.000000
1499	20.508804	1499	0.000000
1500	0.000000	1500	0.153355
1501	0.000000	1501	0.129608
1502	0.176546	1502	0.000000
1503	0.000000	1503	0.153355
1504	0.000000	1504	0.129608
1505	0.600000	1505	0.000000
1506	0.000000	1506	0.161587
1507	0.000000	1507	0.137839
1508	0.000000	1508	0.008232
1509	0.000000	1509	0.247660
1510	0.000000	1510	0.223912
1511	0.000000	1511	0.094305
1512	0.000000	1512	0.188610
1513	0.000000	1513	0.164862
1514	0.000000	1514	0.035254
1515	0.000000	1515	0.174027
1516	0.000000	1516	0.150279
1517	0.000000	1517	0.020671
1518	1.126706	1518	0.000000
1519	0.000000	1519	0.002068
1520	0.000000	1520	0.003362
1521	0.000000	1521	0.005328
1522	0.000000	1522	0.077883
1523	0.000000	1523	0.093396
1524	0.000000	1524	0.096267
1525	0.000000	1525	0.097280
1526	0.000000	1526	0.004534
1527	0.432834	1527	0.000000
1528	0.000000	1528	0.032665
1529	0.549823	1529	0.000000
1530	0.000000	1530	0.010611
1531	0.000000	1531	0.035325

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1532	0.000000	1532	0.069491
1533	2.924928	1533	0.000000
1534	0.000000	1534	0.000000
1535	2990.505345	1535	0.000000
1536	0.000000	1536	0.000000
1537	0.000000	1537	0.000002
1538	0.000000	1538	0.000002
1539	0.000000	1539	0.000004
1540	0.000000	1540	0.000005
1541	0.000000	1541	0.000007
1542	0.000000	1542	0.000011
1543	0.000000	1543	0.000519
1544	0.000000	1544	0.000297
1545	0.000000	1545	0.000109
1546	0.000000	1546	0.000033
1547	468.300261	1547	0.000000
1548	0.000000	1548	0.000014
1549	0.000000	1549	0.000661
1550	0.000000	1550	0.000310
1551	0.000000	1551	0.000053
1552	1047.699971	1552	0.000000
1553	0.000000	1553	0.000020
1554	0.000000	1554	0.000137
1555	0.000000	1555	0.248802
1556	0.000000	1556	0.407464
1557	0.151455	1557	-0.021107
1558	0.830559	1558	-0.151807
1559	0.586277	1559	0.000000
1560	374.162611	1560	0.000000
1561	0.000000	1561	0.089895
1562	4.787273	1562	0.000000
1563	2.232792	1563	0.000000
1564	18.155771	1564	0.000000
1565	0.000000	1565	0.139208
1566	0.000000	1566	0.120165
1567	0.000000	1567	0.011200
1568	0.000000	1568	0.128009
1569	0.000000	1569	0.108965
1570	0.600000	1570	0.000000
1571	0.000000	1571	0.168417
1572	0.000000	1572	0.149374
1573	0.000000	1573	0.040409
1574	0.000000	1574	0.128009
1575	0.000000	1575	0.108966
1576	1.869383	1576	0.000000
1577	0.000000	1577	0.163921
1578	0.000000	1578	0.144877
1579	0.000000	1579	0.035912
1580	0.000000	1580	0.191893

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1581	0.000000	1581	0.172849
1582	0.000000	1582	0.063884
1583	0.000000	1583	0.030843
1584	0.000000	1584	0.027244
1585	0.000000	1585	0.026771
1586	0.000000	1586	0.027841
1587	1.875494	1587	0.000000
1588	0.000000	1588	0.015746
1589	0.000000	1589	0.018732
1590	0.000000	1590	0.019812
1591	0.000000	1591	0.014729
1592	0.850979	1592	0.000000
1593	0.000000	1593	0.016973
1594	1.315711	1594	0.000000
1595	0.000000	1595	0.006874
1596	0.000000	1596	0.025494
1597	0.000000	1597	0.054661
1598	4.122163	1598	0.000000
1599	0.000000	1599	0.000014
1600	0.000000	1600	0.000006
1601	0.000000	1601	0.000001
1602	3892.277392	1602	0.000000
1603	0.000000	1603	0.000001
1604	0.000000	1604	0.000002
1605	0.000000	1605	0.000005
1606	0.000000	1606	0.000009
1607	0.000000	1607	0.000020
1608	0.000000	1608	0.000333
1609	0.000000	1609	0.000132
1610	0.000000	1610	0.000006
1611	521.027918	1611	0.000000
1612	0.000000	1612	0.000089
1613	0.000000	1613	0.000218
1614	0.000000	1614	0.000397
1615	0.000000	1615	0.000097
1616	1985.338824	1616	0.000000
1617	0.000000	1617	0.000148
1618	0.000000	1618	0.000452
1619	0.000000	1619	0.000868
1620	0.000000	1620	0.394792
1621	0.000000	1621	0.646695
1622	0.121129	1622	-0.139208
1623	0.664258	1623	-0.183993
1624	0.468888	1624	-0.298838
1625	525.317456	1625	0.000000
1626	0.000001	1626	0.000000
1627	10.325870	1627	0.000000
1628	2.585457	1628	0.000000
1629	26.138592	1629	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1630	1.794150	1630	0.000000
1631	0.282498	1631	0.000000
1632	0.000000	1632	0.144324
1633	0.000000	1633	0.127249
1634	0.000000	1634	0.249410
1635	0.032905	1635	0.000000
1636	0.171253	1636	0.000000
1637	0.152415	1637	0.000000
1638	0.302589	1638	0.000000
1639	0.000000	1639	0.035016
1640	0.124672	1640	0.000000
1641	0.000000	1641	0.897649
1642	0.000000	1642	0.168909
1643	0.000000	1643	0.618423
1644	0.000000	1644	0.808418
1645	0.000000	1645	0.446969
1646	0.000000	1646	1.226778
1647	0.754499	1647	0.000000
1648	0.309440	1648	0.000000
1649	0.743744	1649	0.000000
1650	0.159341	1650	0.000000
1651	0.040851	1651	0.000000
1652	0.395763	1652	0.000000
1653	0.062179	1653	0.000000
1654	0.060410	1654	0.000000
1655	0.044685	1655	0.000000
1656	0.006724	1656	0.000000
1657	0.010202	1657	0.000000
1658	1.725821	1658	0.000000
1659	4.195243	1659	0.000000
1660	0.314865	1660	0.000000
1661	0.000000	1661	0.022126
1662	0.000000	1662	0.050490
1663	0.000000	1663	0.147881
1664	0.000000	1664	0.092713
1665	0.000000	1665	0.044018
1666	0.000000	1666	0.058707
1667	0.000000	1667	0.096420
1668	0.000000	1668	0.032068
1669	0.117762	1669	0.000000
1670	0.000000	1670	0.025804
1671	0.000000	1671	0.088468
1672	0.000000	1672	0.114966
1673	0.156714	1673	0.000000
1674	0.280916	1674	0.000000
1675	0.571834	1675	0.000000
1676	0.000000	1676	1.569505
1677	0.000000	1677	2.077165
1678	0.000000	1678	0.026866

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1679	0.133670	1679	0.000000
1680	0.000000	1680	0.446577
1681	0.000000	1681	0.130979
1682	0.000000	1682	0.059005
1683	0.000000	1683	0.274291
1684	0.000000	1684	0.523589
1685	0.000000	1685	0.736446
1686	0.000000	1686	0.931073
1687	0.000000	1687	0.626950
1688	0.000000	1688	0.094437
1689	2.383332	1689	0.000000
1690	2.102937	1690	0.000000
1691	0.335878	1691	0.000000
1692	0.058927	1692	0.000000
1693	0.000000	1693	0.024046
1694	0.760680	1694	0.000000
1695	0.000000	1695	0.441327
1696	0.000000	1696	0.370154
1697	0.000000	1697	0.461324
1698	0.000000	1698	0.390152
1699	0.139109	1699	0.000000
1700	0.000000	1700	0.053981
1701	0.073452	1701	0.000000
1702	0.000000	1702	0.056909
1703	0.000000	1703	0.002929
1704	0.016665	1704	0.000000
1705	0.000651	1705	0.000000
1706	4.529767	1706	0.000000
1707	4.537341	1707	0.000000
1708	0.326735	1708	0.000000
1709	0.000000	1709	0.073228
1710	0.000000	1710	0.093026
1711	0.000000	1711	0.164675
1712	0.104485	1712	0.000000
1713	0.000000	1713	0.020321
1714	0.000000	1714	0.031969
1715	0.000000	1715	0.059010
1716	0.000000	1716	0.043492
1717	0.000000	1717	0.077425
1718	0.000000	1718	0.094536
1719	0.000000	1719	0.141416
1720	0.000000	1720	0.028084
1721	0.142808	1721	0.000000
1722	0.247083	1722	0.000000
1723	0.268005	1723	0.000000
1724	0.000000	1724	1.915310
1725	0.000000	1725	1.480497
1726	0.000000	1726	0.038372
1727	0.205093	1727	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1728	0.000000	1728	0.402611
1729	0.000000	1729	0.101039
1730	0.000000	1730	0.048037
1731	0.000000	1731	0.256243
1732	0.000000	1732	0.469215
1733	0.000000	1733	0.342670
1734	0.000000	1734	0.207716
1735	0.000000	1735	0.232467
1736	0.000000	1736	0.091238
1737	3.435510	1737	0.000000
1738	3.247028	1738	0.000000
1739	0.603371	1739	0.000000
1740	0.120653	1740	0.000000
1741	0.000000	1741	0.468481
1742	0.467521	1742	0.000000
1743	0.000000	1743	0.071632
1744	0.141274	1744	0.000000
1745	0.000000	1745	0.084026
1746	0.000000	1746	0.012394
1747	0.070443	1747	0.000000
1748	0.000000	1748	0.039752
1749	0.057809	1749	0.000000
1750	0.000000	1750	0.042763
1751	0.000000	1751	0.003012
1752	0.008902	1752	0.000000
1753	0.033818	1753	0.000000
1754	6.592074	1754	0.000000
1755	5.593373	1755	0.000000
1756	0.495690	1756	0.000000
1757	0.055718	1757	0.000000
1758	0.000000	1758	0.020284
1759	0.000000	1759	0.064902
1760	0.000000	1760	0.055705
1761	0.000000	1761	0.023002
1762	0.000000	1762	0.031320
1763	0.000000	1763	0.048449
1764	0.000000	1764	0.036917
1765	0.000000	1765	0.012243
1766	0.000000	1766	0.029856
1767	0.000000	1767	0.058834
1768	0.000000	1768	0.062939
1769	0.331126	1769	0.000000
1770	0.292071	1770	0.000000
1771	0.663422	1771	0.000000
1772	0.000000	1772	2.209625
1773	0.000000	1773	0.850681
1774	0.000000	1774	0.066509
1775	0.202670	1775	0.000000
1776	0.000000	1776	0.451898

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1777	0.000000	1777	0.135838
1778	0.000000	1778	0.062275
1779	0.000000	1779	0.303635
1780	0.000000	1780	0.521831
1781	0.000000	1781	0.408041
1782	0.000000	1782	0.004905
1783	0.000000	1783	0.263965
1784	0.000000	1784	0.047623
1785	4.640681	1785	0.000000
1786	4.428037	1786	0.000000
1787	0.862013	1787	0.000000
1788	0.176284	1788	0.000000
1789	0.000000	1789	0.479113
1790	0.785428	1790	0.000000
1791	0.000000	1791	0.093649
1792	0.099681	1792	0.000000
1793	0.000000	1793	0.097435
1794	0.000000	1794	0.003786
1795	0.115309	1795	0.000000
1796	0.000000	1796	0.055173
1797	0.082358	1797	0.000000
1798	0.000000	1798	0.055630
1799	0.000000	1799	0.000458
1800	0.013616	1800	0.000000
1801	0.023708	1801	0.000000
1802	9.264488	1802	0.000000
1803	6.003423	1803	0.000000
1804	0.507605	1804	0.000000
1805	0.002045	1805	0.000000
1806	0.000000	1806	0.017209
1807	0.000000	1807	0.052204
1808	0.000000	1808	0.043157
1809	0.000000	1809	0.017899
1810	0.000000	1810	0.024147
1811	0.000000	1811	0.037933
1812	0.000000	1812	0.041663
1813	0.000000	1813	0.022026
1814	0.000000	1814	0.037406
1815	0.000000	1815	0.059756
1816	0.000000	1816	0.049141
1817	0.299152	1817	0.000000
1818	0.326294	1818	0.000000
1819	0.563738	1819	0.000000
1820	0.000000	1820	2.337526
1821	0.000000	1821	0.603378
1822	0.000000	1822	0.078390
1823	0.238148	1823	0.000000
1824	0.000000	1824	0.471607
1825	0.000000	1825	0.135538

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
1826	0.000000	1826	0.058532
1827	0.000000	1827	0.323307
1828	0.000000	1828	0.542595
1829	0.000000	1829	0.506099
1830	0.098067	1830	0.000000
1831	0.000000	1831	0.348300
1832	0.000000	1832	0.015045
1833	5.248932	1833	0.000000
1834	4.655061	1834	0.000000
1835	1.094351	1835	0.000000
1836	0.205322	1836	0.000000
1837	0.000000	1837	0.491052
1838	0.680987	1838	0.000000
1839	0.000000	1839	0.174242
1840	0.000000	1840	0.071673
1841	0.000000	1841	0.174415
1842	0.000000	1842	0.071846
1843	0.119889	1843	0.000000
1844	0.000000	1844	0.059828
1845	0.000000	1845	0.002074
1846	0.000000	1846	0.057754
1847	0.075310	1847	0.000000
1848	0.013561	1848	0.000000
1849	0.024392	1849	0.000000
1850	10.826804	1850	0.000000
1851	6.362536	1851	0.000000
1852	0.561100	1852	0.000000
1853	0.000000	1853	0.032052
1854	0.000000	1854	0.045907
1855	0.000000	1855	0.076474
1856	0.042803	1856	0.000000
1857	0.000000	1857	0.009660
1858	0.000000	1858	0.015337
1859	0.000000	1859	0.027081
1860	0.000000	1860	0.044952
1861	0.000000	1861	0.060092
1862	0.000000	1862	0.072139
1863	0.000000	1863	0.091979
1864	0.000000	1864	0.011058
1865	0.371847	1865	0.000000
1866	0.376107	1866	0.000000
1867	0.518477	1867	0.000000
1868	0.000000	1868	2.136927
1869	0.000000	1869	0.505403
1870	0.000000	1870	0.074847
1871	0.260607	1871	0.000000
1872	0.000000	1872	0.435326
1873	0.000000	1873	0.137459
1874	0.000000	1874	0.057184

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Coordenada x	Valor x	Coordenada z	Valor z
1875	0.000000	1875	0.299899
1876	0.000000	1876	0.500363
1877	0.000000	1877	0.473252
1878	0.101305	1878	0.000000
1879	0.000000	1879	0.325697
1880	0.000000	1880	0.022777
1881	5.721840	1881	0.000000
1882	5.718841	1882	0.000000
1883	1.280733	1883	0.000000
1884	0.229942	1884	0.000000
1885	0.000000	1885	0.425067
1886	0.576127	1886	0.000000
1887	0.000000	1887	0.166267
1888	0.000000	1888	0.070356
1889	0.000000	1889	0.165513
1890	0.000000	1890	0.069602
1891	0.191993	1891	0.000000
1892	0.000000	1892	0.063770
1893	0.000000	1893	0.003563
1894	0.000000	1894	0.060206
1895	0.119730	1895	0.000000
1896	0.024743	1896	0.000000
1897	0.025428	1897	0.000000
1898	12.137904	1898	0.000000
1899	7.975700	1899	0.000000
1900	0.839814	1900	0.000000
1901	0.237850	1901	0.000000
1902	0.000000	1902	0.006103
1903	0.000000	1903	0.032378
1904	0.000000	1904	0.020024
1905	0.386312	1905	0.000000
1906	0.666663	1906	0.000000
1907	0.000000	1907	0.009429
1908	0.000000	1908	0.057959
1909	0.000000	1909	0.041577
1910	0.000000	1910	0.047566
1911	0.000000	1911	0.062981
1912	0.000000	1912	0.045620
1913	0.000000	1913	0.005881
1914	0.000000	1914	0.002244
1915	1.461573	1915	0.000000
1916	0.000000	1916	2.009092
1917	0.000000	1917	0.495885
1918	0.000000	1918	0.068080
1919	0.254299	1919	0.000000
1920	0.000000	1920	0.395641
1921	0.000000	1921	0.208818
1922	0.000000	1922	0.094137
1923	0.000000	1923	0.273366

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Coordenada x	Valor x	Coordenada z	Valor z
1924	0.000000	1924	0.454472
1925	0.000000	1925	0.455371
1926	0.046952	1926	0.000000
1927	0.000000	1927	0.332561
1928	0.000000	1928	0.007647
1929	6.732509	1929	0.000000
1930	6.592143	1930	0.000000
1931	1.447498	1931	0.000000
1932	0.208460	1932	0.000000
1933	0.000000	1933	0.441348
1934	0.510748	1934	0.000000
1935	0.000000	1935	0.176042
1936	0.000000	1936	0.096216
1937	0.000000	1937	0.179173
1938	0.000000	1938	0.099347
1939	0.171147	1939	0.000000
1940	0.000000	1940	0.088728
1941	0.000000	1941	0.002717
1942	0.000000	1942	0.086011
1943	0.095915	1943	0.000000
1944	0.015453	1944	0.000000
1945	0.012498	1945	0.000000
1946	14.736563	1946	0.000000
1947	13.025570	1947	0.000000
1948	1.058138	1948	0.000000
1949	0.129844	1949	0.000000
1950	0.000000	1950	0.005447
1951	0.000000	1951	0.028258
1952	0.000000	1952	0.017878
1953	0.647345	1953	0.000000
1954	0.000000	1954	0.003957
1955	0.000000	1955	0.011679
1956	0.000000	1956	0.037403
1957	0.000000	1957	0.025624
1958	0.000000	1958	0.028918
1959	0.000000	1959	0.044849
1960	0.000000	1960	0.033953
1961	0.000000	1961	0.001115
1962	0.749430	1962	0.000000
1963	1.375184	1963	0.000000
1964	0.000000	1964	1.112579
1965	0.000000	1965	0.494780
1966	0.000000	1966	0.048977
1967	0.371501	1967	0.000000
1968	0.000000	1968	0.282058
1969	0.000000	1969	0.171770
1970	0.000000	1970	0.078813
1971	0.000000	1971	0.193832
1972	0.000000	1972	0.324258

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Coordenada x	Valor x	Coordenada z	Valor z
1973	0.000000	1973	0.249525
1974	0.000000	1974	0.044174
1975	0.000000	1975	0.170467
1976	0.000000	1976	0.016941
1977	8.964958	1977	0.000000
1978	10.111539	1978	0.000000
1979	1.589497	1979	0.000000
1980	0.000000	1980	0.009067
1981	0.200855	1981	0.000000
1982	1.151419	1982	0.000000
1983	0.000000	1983	0.051388
1984	0.038141	1984	0.000000
1985	0.000000	1985	0.056817
1986	0.000000	1986	0.005430
1987	0.122022	1987	0.000000
1988	0.000000	1988	0.071206
1989	0.000000	1989	0.001488
1990	0.000000	1990	0.069718
1991	0.100784	1991	0.000000
1992	0.012014	1992	0.000000
1993	0.010102	1993	0.000000
1994	19.061179	1994	0.000000
1995	4.665573	1995	0.000000
1996	10.970000	1996	-0.182346
1997	7.480000	1997	-0.119004
1998	6.440000	1998	-0.134473
1999	3.410000	1999	-0.085078
2000	1.503617	2000	0.000000
2001	3.062799	2001	0.000000
2002	0.000000	2002	-0.143109
2003	1.070000	2003	-0.108696
2004	6.664525	2004	0.000000
2005	7.614887	2005	0.000000
2006	8.500000	2006	-0.008276
2007	6.250000	2007	-0.008276
2008	3.005732	2008	0.000000
2009	5.795414	2009	0.000000
2010	269.226122	2010	0.000000
2011	269.697348	2011	0.000000
2012	138.623532	2012	0.000000
2013	138.233478	2013	0.000000
2014	4.460000	2014	-202.282697
2015	5.590066	2015	0.000000
2016	4.022988	2016	0.000000
2017	3.767495	2017	0.000000
2018	3.215220	2018	0.000000
2019	2.740100	2019	0.000000
2020	1.133923	2020	0.000000
2021	1.576019	2021	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2022	2.969583	2022	0.000000
2023	2.921492	2023	0.000000
2024	2.275097	2024	0.000000
2025	2.068270	2025	0.000000
2026	1.462552	2026	0.000000
2027	2.518464	2027	0.000000
2028	0.521648	2028	0.000000
2029	0.287869	2029	0.000000
2030	0.533638	2030	0.000000
2031	0.730044	2031	0.000000
2032	0.683310	2032	0.000000
2033	0.582216	2033	0.000000
2034	0.488737	2034	0.000000
2035	0.119156	2035	0.000000
2036	0.256476	2036	0.000000
2037	0.521102	2037	0.000000
2038	0.465538	2038	0.000000
2039	0.411547	2039	0.000000
2040	0.373252	2040	0.000000
2041	4.326200	2041	-1.215654
2042	5.529000	2042	-1.210899
2043	3.977000	2043	-0.724371
2044	3.724798	2044	-0.720887
2045	3.201000	2045	-0.818080
2046	2.735400	2046	-0.823872
2047	1.125200	2047	-1.969860
2048	1.561700	2048	-1.969811
2049	2.910000	2049	-0.556626
2050	2.910000	2050	-0.553077
2051	2.250400	2051	-0.708410
2052	2.046700	2052	-0.698043
2053	3.645808	2053	0.000000
2054	2.847078	2054	0.000000
2055	0.000000	2055	0.057712
2056	0.910000	2056	0.041452
2057	0.420000	2057	0.107891
2058	0.460000	2058	0.071964
2059	0.000000	2059	0.027263
2060	0.460000	2060	0.015786
2061	2.575809	2061	0.000000
2062	2.615809	2062	0.000000
2063	3.134268	2063	0.000000
2064	2.252287	2064	0.000000
2065	1.250000	2065	0.006442
2066	2.500000	2066	0.006442
2067	307.278511	2067	0.000000
2068	309.965922	2068	0.000000
2069	159.265141	2069	0.000000
2070	159.813418	2070	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2071	1.217930	2071	0.000000
2072	2.803443	2072	0.000000
2073	0.601249	2073	0.000000
2074	0.000000	2074	0.047904
2075	0.000000	2075	0.011307
2076	0.423602	2076	0.000000
2077	0.000000	2077	0.042860
2078	0.000000	2078	0.011368
2079	0.846397	2079	0.000000
2080	0.000000	2080	0.068584
2081	0.000000	2081	0.021127
2082	1.235642	2082	0.000000
2083	0.000000	2083	0.064937
2084	0.000000	2084	0.019947
2085	1.157186	2085	0.000000
2086	0.000000	2086	0.053838
2087	0.000000	2087	0.017035
2088	0.858812	2088	0.000000
2089	0.000000	2089	0.059772
2090	0.000000	2090	0.016081
2091	0.732670	2091	0.000000
2092	0.000000	2092	0.063422
2093	0.000000	2093	0.020467
2094	0.228065	2094	0.000000
2095	0.000000	2095	0.063365
2096	0.000000	2096	0.022767
2097	0.434811	2097	0.000000
2098	0.000000	2098	0.019693
2099	0.000000	2099	0.005930
2100	1.095536	2100	0.000000
2101	0.000000	2101	0.015988
2102	0.000000	2102	0.005354
2103	1.080224	2103	0.000000
2104	0.000000	2104	0.051803
2105	0.000000	2105	0.011452
2106	0.698853	2106	0.000000
2107	0.000000	2107	0.040798
2108	0.000000	2108	0.004149
2109	0.635366	2109	0.000000
2110	4.103198	2110	-0.131781
2111	5.244000	2111	-0.128090
2112	3.772000	2112	-0.070029
2113	3.532800	2113	-0.068525
2114	3.036000	2114	-0.080822
2115	2.594400	2115	-0.077435
2116	1.067200	2116	-0.221177
2117	1.481200	2117	-0.218203
2118	2.760000	2118	-0.062310
2119	2.760000	2119	-0.061779

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Coordenada x	Valor x	Coordenada z	Valor z
2120	2.134400	2120	-0.070683
2121	1.941200	2121	-0.067088
2122	5.500486	2122	0.000000
2123	2.535331	2123	0.000000
2124	0.200000	2124	0.051832
2125	0.200000	2125	0.035510
2126	0.200000	2126	0.046199
2127	0.200000	2127	0.027552
2128	0.000000	2128	0.000680
2129	1.160698	2129	0.000000
2130	3.056560	2130	0.000000
2131	2.446351	2131	0.000000
2132	6.057255	2132	0.000000
2133	6.487410	2133	0.000000
2134	0.000000	2134	0.002832
2135	0.000000	2135	0.002832
2136	347.348398	2136	0.000000
2137	352.133945	2137	0.000000
2138	183.551599	2138	0.000000
2139	184.847382	2139	0.000000
2140	0.927348	2140	0.000000
2141	3.371918	2141	0.000000
2142	0.665189	2142	0.000000
2143	0.000000	2143	0.040016
2144	0.000000	2144	0.011058
2145	0.000000	2145	0.002056
2146	0.442306	2146	0.000000
2147	0.000000	2147	0.031080
2148	0.000000	2148	0.008125
2149	0.919484	2149	0.000000
2150	0.000000	2150	0.000334
2151	0.000000	2151	0.061306
2152	0.000000	2152	0.024651
2153	0.000000	2153	0.008509
2154	1.124603	2154	0.000000
2155	0.000000	2155	0.056065
2156	0.000000	2156	0.023769
2157	0.000000	2157	0.009246
2158	1.053211	2158	0.000000
2159	0.000000	2159	0.043656
2160	0.000000	2160	0.015427
2161	0.000000	2161	0.002913
2162	1.210537	2162	0.000000
2163	0.000000	2163	0.046330
2164	0.000000	2164	0.015054
2165	0.000000	2165	0.003531
2166	1.032586	2166	0.000000
2167	0.000000	2167	0.056261
2168	0.000000	2168	0.022502

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Coordenada x	Valor x	Coordenada z	Valor z
2169	0.000000	2169	0.006416
2170	0.222678	2170	0.000000
2171	0.000000	2171	0.053035
2172	0.000000	2172	0.023692
2173	0.000000	2173	0.007269
2174	0.450728	2174	0.000000
2175	0.000000	2175	0.017697
2176	0.000000	2176	0.006749
2177	0.000000	2177	0.002065
2178	1.099343	2178	0.000000
2179	0.000000	2179	0.013362
2180	0.000000	2180	0.005665
2181	0.000000	2181	0.001753
2182	1.084956	2182	0.000000
2183	0.000000	2183	0.044550
2184	0.000000	2184	0.012410
2185	0.000000	2185	0.003107
2186	0.636085	2186	0.000000
2187	0.000000	2187	0.029495
2188	0.000000	2188	0.002923
2189	0.578323	2189	0.000000
2190	0.000000	2190	0.003827
2191	3.746400	2191	-0.106269
2192	4.788000	2192	-0.111324
2193	3.444000	2193	-0.050415
2194	3.225598	2194	-0.053646
2195	2.772000	2195	-0.064964
2196	2.368800	2196	-0.064503
2197	0.974400	2197	-0.175212
2198	1.352400	2198	-0.179418
2199	2.520000	2199	-0.048929
2200	2.520000	2200	-0.051177
2201	1.948800	2201	-0.055105
2202	1.772400	2202	-0.060469
2203	1.152843	2203	0.000000
2204	0.000000	2204	0.006221
2205	0.200000	2205	0.037322
2206	0.200000	2206	0.031829
2207	0.200000	2207	0.020336
2208	0.200000	2208	0.017818
2209	3.737112	2209	0.000000
2210	4.474244	2210	0.000000
2211	0.000000	2211	0.010834
2212	1.163701	2212	0.000000
2213	7.359938	2213	0.000000
2214	7.922654	2214	0.000000
2215	0.000000	2215	0.001537
2216	0.000000	2216	0.001537
2217	379.154551	2217	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2218	386.364368	2218	0.000000
2219	201.919930	2219	0.000000
2220	204.389695	2220	0.000000
2221	0.597555	2221	0.000000
2222	2.938403	2222	0.000000
2223	0.785591	2223	0.000000
2224	0.000000	2224	0.032100
2225	0.000000	2225	0.009141
2226	0.000000	2226	0.001918
2227	0.588576	2227	0.000000
2228	0.000000	2228	0.028109
2229	0.000000	2229	0.007414
2230	0.000000	2230	0.000434
2231	1.143953	2231	0.000000
2232	0.000000	2232	0.048296
2233	0.000000	2233	0.019460
2234	0.000000	2234	0.006758
2235	1.136542	2235	0.000000
2236	0.000000	2236	0.046225
2237	0.000000	2237	0.020688
2238	0.000000	2238	0.007623
2239	1.064380	2239	0.000000
2240	0.000000	2240	0.034196
2241	0.000000	2241	0.012028
2242	0.000000	2242	0.002277
2243	1.389336	2243	0.000000
2244	0.000000	2244	0.036477
2245	0.000000	2245	0.012393
2246	0.000000	2246	0.003148
2247	1.184656	2247	0.000000
2248	0.000000	2248	0.044896
2249	0.000000	2249	0.018153
2250	0.000000	2250	0.005306
2251	0.260552	2251	0.000000
2252	0.000000	2252	0.045902
2253	0.000000	2253	0.021529
2254	0.000000	2254	0.007112
2255	0.542832	2255	0.000000
2256	0.000000	2256	0.014113
2257	0.000000	2257	0.005423
2258	0.000000	2258	0.001694
2259	1.250747	2259	0.000000
2260	0.000000	2260	0.011964
2261	0.000000	2261	0.005346
2262	0.000000	2262	0.001665
2263	1.232989	2263	0.000000
2264	0.000000	2264	0.035844
2265	0.000000	2265	0.010304
2266	0.000000	2266	0.002783

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Coordenada x	Valor x	Coordenada z	Valor z
2267	0.642812	2267	0.000000
2268	0.000000	2268	0.025882
2269	0.000000	2269	0.002817
2270	0.584421	2270	0.000000
2271	0.000000	2271	0.002546
2272	3.389600	2272	-0.057074
2273	4.332000	2273	-0.057996
2274	3.116000	2274	-0.025416
2275	2.918400	2275	-0.025893
2276	2.508000	2276	-0.034526
2277	2.143200	2277	-0.034005
2278	0.881600	2278	-0.094912
2279	1.223600	2279	-0.094870
2280	2.280000	2280	-0.026442
2281	2.280000	2281	-0.026932
2282	1.763200	2282	-0.028183
2283	1.603600	2283	-0.030484
2284	0.000000	2284	0.012500
2285	0.000000	2285	0.001063
2286	0.200000	2286	0.036499
2287	0.200000	2287	0.017592
2288	0.000000	2288	0.012836
2289	2.362971	2289	0.000000
2290	6.158192	2290	0.000000
2291	3.340687	2291	0.000000
2292	0.000000	2292	0.011464
2293	0.000000	2293	0.014620
2294	5.806171	2294	0.000000
2295	6.414424	2295	0.000000
2296	0.000000	2296	0.000789
2297	0.000000	2297	0.000789
2298	414.952958	2298	0.000000
2299	425.396035	2299	0.000000
2300	221.709183	2300	0.000000
2301	225.630090	2301	0.000000
2302	0.243760	2302	0.000000
2303	2.112661	2303	0.000000
2304	0.989880	2304	0.000000
2305	0.000000	2305	0.025464
2306	0.000000	2306	0.007201
2307	0.000000	2307	0.001476
2308	0.555379	2308	0.000000
2309	0.000000	2309	0.022305
2310	0.000000	2310	0.005832
2311	0.000000	2311	0.000297
2312	1.157738	2312	0.000000
2313	0.000000	2313	0.038403
2314	0.000000	2314	0.015465
2315	0.000000	2315	0.005360

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Coordenada x	Valor x	Coordenada z	Valor z
2316	1.631708	2316	0.000000
2317	0.000000	2317	0.036767
2318	0.000000	2318	0.016450
2319	0.000000	2319	0.006049
2320	1.528099	2320	0.000000
2321	0.000000	2321	0.027177
2322	0.000000	2322	0.009544
2323	0.000000	2323	0.001791
2324	1.594062	2324	0.000000
2325	0.000000	2325	0.028995
2326	0.000000	2326	0.009837
2327	0.000000	2327	0.002485
2328	1.363169	2328	0.000000
2329	0.000000	2329	0.035665
2330	0.000000	2330	0.014376
2331	0.000000	2331	0.004174
2332	0.287208	2332	0.000000
2333	0.000000	2333	0.036485
2334	0.000000	2334	0.017074
2335	0.000000	2335	0.005616
2336	0.622845	2336	0.000000
2337	0.000000	2337	0.011215
2338	0.000000	2338	0.004303
2339	0.000000	2339	0.001338
2340	1.516242	2340	0.000000
2341	0.000000	2341	0.009511
2342	0.000000	2342	0.004245
2343	0.000000	2343	0.001315
2344	1.493810	2344	0.000000
2345	0.000000	2345	0.028428
2346	0.000000	2346	0.008114
2347	0.000000	2347	0.002149
2348	0.922830	2348	0.000000
2349	0.000000	2349	0.020578
2350	0.000000	2350	0.002223
2351	0.838976	2351	0.000000
2352	0.000000	2352	0.002091
2353	2.988198	2353	-0.033262
2354	3.819000	2354	-0.034274
2355	2.747000	2355	-0.013221
2356	2.572800	2356	-0.013815
2357	2.211000	2357	-0.019485
2358	1.889400	2358	-0.019131
2359	0.777200	2359	-0.055852
2360	1.078700	2360	-0.056142
2361	2.010000	2361	-0.015541
2362	2.010000	2362	-0.016041
2363	1.554400	2363	-0.015277
2364	1.413700	2364	-0.017577

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Coordenada x	Valor x	Coordenada z	Valor z
2365	0.000000	2365	0.018496
2366	0.000000	2366	0.005328
2367	0.200000	2367	0.036693
2368	0.200000	2368	0.017887
2369	0.000000	2369	0.010273
2370	0.889481	2370	0.000000
2371	5.497850	2371	0.000000
2372	4.920448	2372	0.000000
2373	0.000000	2373	0.010061
2374	0.000000	2374	0.012935
2375	8.396105	2375	0.000000
2376	9.152098	2376	0.000000
2377	0.000000	2377	0.000375
2378	0.000000	2378	0.000375
2379	460.635866	2379	0.000000
2380	474.199828	2380	0.000000
2381	248.421389	2381	0.000000
2382	253.747562	2382	0.000000
2383	0.229674	2383	0.000000
2384	1.415221	2384	0.000000
2385	1.153071	2385	0.000000
2386	0.000000	2386	0.019434
2387	0.000000	2387	0.005275
2388	0.000000	2388	0.000916
2389	0.533458	2389	0.000000
2390	0.000000	2390	0.017238
2391	0.000000	2391	0.004289
2392	0.000000	2392	0.000032
2393	1.178550	2393	0.000000
2394	0.000000	2394	0.029748
2395	0.000000	2395	0.011918
2396	0.000000	2396	0.004079
2397	2.091942	2397	0.000000
2398	0.000000	2398	0.028685
2399	0.000000	2399	0.012824
2400	0.000000	2400	0.004647
2401	1.959105	2401	0.000000
2402	0.000000	2402	0.020973
2403	0.000000	2403	0.007277
2404	0.000000	2404	0.001282
2405	1.407660	2405	0.000000
2406	0.000000	2406	0.022471
2407	0.000000	2407	0.007558
2408	0.000000	2408	0.001845
2409	1.199878	2409	0.000000
2410	0.000000	2410	0.027301
2411	0.000000	2411	0.010797
2412	0.000000	2412	0.002993
2413	0.257274	2413	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2414	0.000000	2414	0.028259
2415	0.000000	2415	0.013093
2416	0.000000	2416	0.004206
2417	0.607544	2417	0.000000
2418	0.000000	2418	0.008646
2419	0.000000	2419	0.003283
2420	0.000000	2420	0.000992
2421	0.336727	2421	0.000000
2422	0.000000	2422	0.007420
2423	0.000000	2423	0.003293
2424	0.000000	2424	0.000991
2425	0.333539	2425	0.000000
2426	0.000000	2426	0.021679
2427	0.000000	2427	0.005936
2428	0.000000	2428	0.001406
2429	1.183107	2429	0.000000
2430	0.000000	2430	0.016037
2431	0.000000	2431	0.001654
2432	1.075594	2432	0.000000
2433	0.000000	2433	0.001885
2434	2.586800	2434	-0.028230
2435	3.306000	2435	-0.028777
2436	2.378000	2436	-0.010252
2437	2.227200	2437	-0.010215
2438	1.914000	2438	-0.016102
2439	1.635600	2439	-0.015561
2440	0.672800	2440	-0.047716
2441	0.933800	2441	-0.046925
2442	1.740000	2442	-0.013215
2443	1.740000	2443	-0.013389
2444	1.345600	2444	-0.012314
2445	1.223800	2445	-0.014069
2446	0.000000	2446	0.016556
2447	0.000000	2447	0.004246
2448	0.200000	2448	0.031814
2449	0.200000	2449	0.014783
2450	0.000000	2450	0.009039
2451	1.491536	2451	0.000000
2452	8.883735	2452	0.000000
2453	5.563869	2453	0.000000
2454	0.000000	2454	0.010946
2455	0.000000	2455	0.014666
2456	8.898794	2456	0.000000
2457	9.760326	2457	0.000000
2458	0.000000	2458	0.000343
2459	0.000000	2459	0.000343
2460	504.821924	2460	0.000000
2461	521.823321	2461	0.000000
2462	277.105392	2462	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2463	283.822010	2463	0.000000
2464	0.220482	2464	0.000000
2465	0.627287	2465	0.000000
2466	1.342312	2466	0.000000
2467	0.000000	2467	0.013039
2468	0.000000	2468	0.003201
2469	0.000000	2469	0.000293
2470	1.090664	2470	0.000000
2471	0.000000	2471	0.011373
2472	0.000000	2472	0.002754
2473	2.617521	2473	0.000000
2474	0.000000	2474	0.000389
2475	0.000000	2475	0.020559
2476	0.000000	2476	0.008134
2477	0.000000	2477	0.002703
2478	5.427257	2478	0.000000
2479	0.000000	2479	0.019454
2480	0.000000	2480	0.008488
2481	0.000000	2481	0.003049
2482	5.082580	2482	0.000000
2483	0.000000	2483	0.014388
2484	0.000000	2484	0.004856
2485	0.000000	2485	0.000732
2486	4.274823	2486	0.000000
2487	0.000000	2487	0.015357
2488	0.000000	2488	0.004971
2489	0.000000	2489	0.001084
2490	3.650426	2490	0.000000
2491	0.000000	2491	0.018475
2492	0.000000	2492	0.006995
2493	0.000000	2493	0.001727
2494	0.649154	2494	0.000000
2495	0.000000	2495	0.018564
2496	0.000000	2496	0.008231
2497	0.000000	2497	0.002413
2498	1.633947	2498	0.000000
2499	0.000000	2499	0.005920
2500	0.000000	2500	0.002193
2501	0.000000	2501	0.000616
2502	4.587066	2502	0.000000
2503	0.000000	2503	0.004862
2504	0.000000	2504	0.002085
2505	0.000000	2505	0.000581
2506	4.512522	2506	0.000000
2507	0.000000	2507	0.014507
2508	0.000000	2508	0.003583
2509	0.000000	2509	0.000570
2510	3.069238	2510	0.000000
2511	0.000000	2511	0.010595

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Coordenada x	Valor x	Coordenada z	Valor z
2512	0.000000	2512	0.000941
2513	2.790211	2513	0.000000
2514	0.000000	2514	0.001759
2515	1.744784	2515	0.000000
2516	1.581256	2516	0.000000
2517	0.000000	2517	0.007146
2518	0.000000	2518	0.006531
2519	0.000000	2519	0.006050
2520	0.000000	2520	0.005834
2521	0.238417	2521	0.000000
2522	0.000000	2522	0.007791
2523	0.000000	2523	0.002097
2524	0.000000	2524	0.001625
2525	0.000000	2525	0.005550
2526	0.000000	2526	0.004305
2527	0.000000	2527	0.016535
2528	0.000000	2528	0.007993
2529	0.200000	2529	0.026441
2530	0.200000	2530	0.014901
2531	0.000000	2531	0.006707
2532	0.000000	2532	0.002085
2533	7.583438	2533	0.000000
2534	4.592390	2534	0.000000
2535	0.000000	2535	0.008958
2536	0.000000	2536	0.010146
2537	11.232980	2537	0.000000
2538	12.114221	2538	0.000000
2539	0.000000	2539	0.000131
2540	0.000000	2540	0.000131
2541	577.747595	2541	0.000000
2542	596.089598	2542	0.000000
2543	325.365744	2543	0.000000
2544	332.860443	2544	0.000000
2545	0.220482	2545	0.000000
2546	0.363548	2546	0.000000
2547	1.456563	2547	0.000000
2548	0.000000	2548	0.023334
2549	0.000000	2549	0.014846
2550	0.000000	2550	0.012470
2551	0.000000	2551	0.012623
2552	0.000000	2552	0.021669
2553	0.000000	2553	0.014069
2554	0.000000	2554	0.011792
2555	0.000000	2555	0.012512
2556	0.000000	2556	0.019211
2557	0.000000	2557	0.008445
2558	0.000000	2558	0.003802
2559	0.000000	2559	0.001646
2560	0.000000	2560	0.018721

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Coordenada x	Valor x	Coordenada z	Valor z
2561	0.000000	2561	0.009212
2562	0.000000	2562	0.004451
2563	0.000000	2563	0.001974
2564	0.000000	2564	0.015083
2565	0.000000	2565	0.006836
2566	0.000000	2566	0.003348
2567	0.000000	2567	0.002916
2568	0.000000	2568	0.016267
2569	0.000000	2569	0.007299
2570	0.000000	2570	0.004006
2571	0.000000	2571	0.003249
2572	0.000000	2572	0.035279
2573	0.000000	2573	0.025407
2574	0.000000	2574	0.021063
2575	0.000000	2575	0.020002
2576	0.000000	2576	0.027578
2577	0.000000	2577	0.018621
2578	0.000000	2578	0.013703
2579	0.000000	2579	0.011975
2580	0.000000	2580	0.008556
2581	0.000000	2581	0.005336
2582	0.000000	2582	0.004001
2583	0.000000	2583	0.003563
2584	0.000000	2584	0.007970
2585	0.000000	2585	0.005542
2586	0.000000	2586	0.004232
2587	0.000000	2587	0.003808
2588	0.000000	2588	0.014755
2589	0.000000	2589	0.005348
2590	0.000000	2590	0.002909
2591	0.000000	2591	0.002887
2592	0.000000	2592	0.012088
2593	0.000000	2593	0.003645
2594	0.000000	2594	0.002990
2595	0.000000	2595	0.004983
2596	2.007000	2596	-0.157627
2597	2.565000	2597	-0.159292
2598	1.845000	2598	-0.082709
2599	1.728000	2599	-0.083199
2600	1.485000	2600	-0.103477
2601	1.269000	2601	-0.102293
2602	0.522000	2602	-0.260083
2603	0.724500	2603	-0.267784
2604	1.350000	2604	-0.074645
2605	1.350000	2605	-0.075230
2606	1.044000	2606	-0.087165
2607	0.949500	2607	-0.089832
2608	0.000000	2608	0.005255
2609	2.433976	2609	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2610	0.200000	2610	0.012395
2611	0.200000	2611	0.005081
2612	0.000000	2612	0.005626
2613	0.000000	2613	0.000946
2614	11.743479	2614	0.000000
2615	7.737770	2615	0.000000
2616	0.000000	2616	0.007679
2617	0.000000	2617	0.009415
2618	11.202180	2618	0.000000
2619	12.541372	2619	0.000000
2620	0.000000	2620	0.000458
2621	0.000000	2621	0.000458
2622	661.938674	2622	0.000000
2623	685.592215	2623	0.000000
2624	371.206860	2624	0.000000
2625	381.471129	2625	0.000000
2626	0.220482	2626	0.000000
2627	0.615969	2627	0.000000
2628	1.697609	2628	0.000000
2629	42.900000	2629	-0.021519
2630	191.300000	2630	-0.010544
2631	78.671364	2631	0.000000
2632	56.800000	2632	-0.009186
2633	15.704014	2633	0.000000
2634	4.900000	2634	-0.007197
2635	59.500000	2635	-0.023296
2636	9.900000	2636	-0.004167
2637	0.500000	2637	-0.025810
2638	1.984316	2638	0.000000
2639	13.361714	2639	0.000000
2640	20.818636	2640	0.000000
2641	18.208660	2641	0.000000
2642	0.000000	2642	0.000180
2643	0.000000	2643	0.000839
2644	0.375035	2644	0.000000
2645	-0.000000	2645	0.000000
2646	-0.000000	2646	0.000000
2647	-0.000000	2647	0.000000
2648	0.000000	2648	0.003728
2649	0.000000	2649	0.003728
2650	5.908780	2650	0.000000
2651	21.058026	2651	0.000000
2652	21.461558	2652	0.000000
2653	7.829724	2653	0.000000
2654	17.691909	2654	0.000000
2655	0.000000	2655	0.202248
2656	1.587333	2656	0.128316
2657	0.456057	2657	0.450334
2658	0.000000	2658	0.128316

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Coordenada x	Valor x	Coordenada z	Valor z
2659	0.000000	2659	0.450334
2660	0.000000	2660	-0.128316
2661	11.240000	2661	-0.277475
2662	4.420000	2662	-0.450334
2663	0.990000	2663	-0.297559
2664	0.000000	2664	0.000210
2665	-0.000000	2665	0.000000
2666	0.000000	2666	0.004532
2667	0.000000	2667	0.021956
2668	0.000000	2668	0.000000
2669	5.212991	2669	0.000000
2670	-0.000000	2670	0.000000
2671	0.828828	2671	0.000000
2672	-0.000000	2672	0.000000
2673	-0.000000	2673	0.000000
2674	0.000000	2674	0.152776
2675	13.600000	2675	-0.013227
2676	0.000000	2676	0.021191
2677	0.000000	2677	0.027015
2678	66.800000	2678	0.002076
2679	0.000000	2679	0.022660
2680	6.700000	2680	0.015958
2681	0.000000	2681	0.007005
2682	3.100000	2682	-0.003853
2683	0.000000	2683	0.025657
2684	8.600000	2684	-0.022143
2685	3.100000	2685	0.002588
2686	0.400000	2686	-0.030025
2687	0.000000	2687	0.020728
2688	0.000000	2688	0.047457
2689	0.000000	2689	0.072995
2690	0.000000	2690	0.088898
2691	0.200000	2691	0.742927
2692	1.200000	2692	-0.133292
2693	0.000000	2693	0.469949
2694	0.000000	2694	0.167128
2695	0.000000	2695	0.100119
2696	3.100000	2696	-0.212286
2697	0.000000	2697	0.061736
2698	42.900000	2698	-0.016203
2699	191.300000	2699	-0.011388
2700	43.778327	2700	0.000000
2701	56.800000	2701	-0.000454
2702	20.415368	2702	0.000000
2703	4.361000	2703	-0.005668
2704	59.500000	2704	-0.015270
2705	9.900000	2705	-0.004221
2706	0.500000	2706	-0.022542
2707	1.937312	2707	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2708	12.008000	2708	-0.187042
2709	17.932983	2709	-0.203853
2710	18.396135	2710	0.000000
2711	0.000000	2711	0.006384
2712	0.000000	2712	0.006417
2713	0.466981	2713	0.000000
2714	0.000000	2714	0.004962
2715	0.000000	2715	0.070635
2716	-0.000000	2716	0.000000
2717	0.000000	2717	0.003728
2718	0.000000	2718	0.003728
2719	6.877270	2719	0.000000
2720	27.434205	2720	0.000000
2721	21.214663	2721	0.000000
2722	7.910338	2722	0.000000
2723	21.533124	2723	0.000000
2724	0.000000	2724	0.043976
2725	1.500000	2725	0.014949
2726	0.000000	2726	0.083818
2727	0.000000	2727	0.058264
2728	0.000000	2728	0.255428
2729	0.000000	2729	-0.014949
2730	0.000000	2730	-0.157164
2731	3.000000	2731	-0.083818
2732	1.000000	2732	-0.219890
2733	6.000000	2733	-0.039291
2734	3.000000	2734	-0.014734
2735	0.156362	2735	0.000000
2736	0.000000	2736	0.014734
2737	0.000000	2737	0.034380
2738	0.000000	2738	0.001500
2739	0.000000	2739	0.002338
2740	0.000000	2740	0.013672
2741	-0.000000	2741	0.000000
2742	0.000000	2742	0.000000
2743	11.704033	2743	0.000000
2744	-0.000000	2744	0.000000
2745	1.860857	2745	0.000000
2746	-0.000000	2746	0.000000
2747	-0.000000	2747	0.000000
2748	0.000000	2748	0.000000
2749	30.000000	2749	-0.012337
2750	0.000000	2750	-0.013507
2751	0.000000	2751	-0.010561
2752	16.997467	2752	0.000000
2753	0.000000	2753	0.019882
2754	0.000000	2754	0.017368
2755	0.000000	2755	0.004194
2756	6.199559	2756	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2757	0.000000	2757	-0.002283
2758	10.000000	2758	-0.012728
2759	0.000000	2759	0.000279
2760	2.000000	2760	-0.017407
2761	2.000000	2761	-0.004696
2762	0.000000	2762	0.001691
2763	0.000000	2763	0.004093
2764	0.000000	2764	0.010162
2765	0.000000	2765	0.093595
2766	5.720144	2766	0.000000
2767	0.000000	2767	-1.020660
2768	0.000000	2768	-0.112275
2769	0.000000	2769	-0.029657
2770	5.869000	2770	0.000000
2771	0.000000	2771	0.013133
2772	36.464981	2772	-0.008897
2773	162.604980	2773	-0.005426
2774	0.000000	2774	0.002633
2775	27.387683	2775	0.000000
2776	0.000000	2776	0.000806
2777	2.940000	2777	-0.000475
2778	59.500000	2778	-0.005829
2779	9.900000	2779	-0.000296
2780	0.425000	2780	-0.009456
2781	2.065235	2781	0.000000
2782	8.056000	2782	-0.004997
2783	12.031000	2783	0.000000
2784	18.367287	2784	0.000000
2785	0.000000	2785	0.007330
2786	0.000000	2786	0.007641
2787	0.799101	2787	0.000000
2788	-0.000000	2788	0.000000
2789	0.000000	2789	0.036218
2790	-0.000000	2790	0.000000
2791	0.000000	2791	0.001785
2792	0.000000	2792	0.001785
2793	8.489182	2793	0.000000
2794	38.512105	2794	0.000000
2795	24.054652	2795	0.000000
2796	7.897933	2796	0.000000
2797	20.207171	2797	0.000000
2798	0.953445	2798	0.000000
2799	3.076394	2799	-0.060389
2800	0.883880	2800	-0.042586
2801	0.741682	2801	-0.004227
2802	0.000000	2802	0.139661
2803	0.000000	2803	0.060389
2804	0.000000	2804	-0.165839
2805	0.000000	2805	0.042586

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Coordenada x	Valor x	Coordenada z	Valor z
2806	1.000000	2806	-0.017768
2807	6.000000	2807	-0.048668
2808	3.000000	2808	-0.024257
2809	3.000000	2809	-0.009611
2810	0.000000	2810	0.005036
2811	0.000000	2811	0.024564
2812	0.000000	2812	0.000269
2813	-0.000000	2813	0.000000
2814	0.000000	2814	0.002999
2815	-0.000000	2815	0.000000
2816	0.000000	2816	0.000000
2817	22.811532	2817	0.000000
2818	0.000000	2818	0.000000
2819	3.626870	2819	0.000000
2820	0.000000	2820	0.000000
2821	0.128000	2821	0.000000
2822	0.000000	2822	0.094437
2823	30.000000	2823	-0.011965
2824	0.000000	2824	-0.012935
2825	0.000000	2825	-0.010930
2826	121.980143	2826	0.000000
2827	0.000000	2827	0.019366
2828	0.000000	2828	0.023203
2829	0.000000	2829	0.003071
2830	3.330011	2830	0.000000
2831	0.000000	2831	-0.001501
2832	10.000000	2832	-0.008206
2833	5.000000	2833	-0.001709
2834	4.000000	2834	-0.014742
2835	4.000000	2835	-0.004430
2836	0.000000	2836	0.000345
2837	0.000000	2837	0.001752
2838	0.000000	2838	0.006404
2839	0.667986	2839	0.000000
2840	3.697014	2840	0.000000
2841	0.100000	2841	-0.860892
2842	0.000000	2842	-0.101950
2843	0.000000	2843	-0.042220
2844	6.782112	2844	0.000000
2845	0.000000	2845	0.006128
2846	27.885000	2846	-0.004373
2847	124.344986	2847	-0.001657
2848	0.000000	2848	0.002916
2849	0.000000	2849	0.000896
2850	0.000000	2850	0.000728
2851	1.225000	2851	-0.000388
2852	53.549988	2852	-0.002970
2853	8.910000	2853	-0.000473
2854	0.325000	2854	-0.004612

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Coordenada x	Valor x	Coordenada z	Valor z
2855	1.890000	2855	-0.081864
2856	4.408000	2856	-0.018758
2857	4.701456	2857	0.000000
2858	17.888485	2858	0.000000
2859	0.000000	2859	0.001283
2860	0.000000	2860	0.003925
2861	1.020405	2861	0.000000
2862	0.000000	2862	0.005379
2863	0.000000	2863	0.028837
2864	-0.000000	2864	0.000000
2865	0.000000	2865	0.001785
2866	0.000000	2866	0.001785
2867	10.626449	2867	0.000000
2868	40.146348	2868	0.000000
2869	24.133378	2869	0.000000
2870	7.692049	2870	0.000000
2871	25.869091	2871	0.000000
2872	3.478585	2872	0.000000
2873	3.756276	2873	-0.033744
2874	1.079217	2874	-0.007725
2875	0.000000	2875	0.003251
2876	0.000000	2876	0.111652
2877	0.000000	2877	0.033744
2878	0.000000	2878	-0.116666
2879	0.000000	2879	0.007725
2880	0.000000	2880	0.001798
2881	6.000000	2881	-0.036624
2882	3.000000	2882	-0.019949
2883	3.000000	2883	-0.009944
2884	0.000000	2884	0.000062
2885	0.000000	2885	0.013402
2886	0.000000	2886	0.000375
2887	0.000000	2887	0.000855
2888	0.000000	2888	0.002789
2889	-0.000000	2889	0.000000
2890	0.000000	2890	0.000000
2891	36.995166	2891	0.000000
2892	0.000000	2892	0.000000
2893	5.881965	2893	0.000000
2894	0.000000	2894	0.000000
2895	0.467000	2895	0.000000
2896	0.000000	2896	0.091238
2897	30.000000	2897	-0.009330
2898	0.000000	2898	-0.010042
2899	0.000000	2899	-0.008562
2900	131.737928	2900	0.000000
2901	0.000000	2901	0.015402
2902	0.000000	2902	0.021661
2903	0.000000	2903	0.002093

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Coordenada x	Valor x	Coordenada z	Valor z
2904	4.798248	2904	0.000000
2905	2.000000	2905	-0.001145
2906	15.000000	2906	-0.006378
2907	5.000000	2907	-0.002379
2908	10.000000	2908	-0.011397
2909	10.000000	2909	-0.003535
2910	2.000000	2910	-0.000141
2911	0.000000	2911	0.000716
2912	0.000000	2912	0.004129
2913	0.874293	2913	0.000000
2914	3.198258	2914	0.000000
2915	0.150000	2915	-0.785789
2916	0.500000	2916	-0.137056
2917	0.500000	2917	-0.094518
2918	0.000000	2918	0.000000
2919	0.376237	2919	0.000000
2920	15.015000	2920	-0.002968
2921	66.954987	2921	-0.000953
2922	0.000000	2922	0.002627
2923	0.000000	2923	0.002738
2924	0.000000	2924	0.000227
2925	0.000000	2925	-0.000741
2926	47.600000	2926	-0.002047
2927	7.920000	2927	-0.001257
2928	0.175000	2928	-0.003092
2929	1.680000	2929	-0.044214
2930	1.976000	2930	-0.003527
2931	2.951000	2931	-0.000956
2932	16.159988	2932	-0.003309
2933	0.059887	2933	0.000000
2934	0.000000	2934	0.002842
2935	1.197387	2935	0.000000
2936	-0.000000	2936	0.000000
2937	0.000000	2937	0.021623
2938	-0.000000	2938	0.000000
2939	0.000000	2939	0.001075
2940	0.000000	2940	0.001075
2941	13.107944	2941	0.000000
2942	41.465337	2942	0.000000
2943	25.364139	2943	0.000000
2944	7.110577	2944	0.000000
2945	32.118740	2945	0.000000
2946	5.166978	2946	0.000000
2947	4.586413	2947	-0.027754
2948	0.000000	2948	0.000242
2949	0.000000	2949	0.000465
2950	0.000000	2950	0.092802
2951	0.000000	2951	0.027754
2952	0.000000	2952	-0.100765

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Coordenada x	Valor x	Coordenada z	Valor z
2953	2.500000	2953	-0.000242
2954	1.000000	2954	-0.024230
2955	6.000000	2955	-0.035802
2956	3.000000	2956	-0.022267
2957	3.000000	2957	-0.014147
2958	3.000000	2958	-0.006026
2959	0.000000	2959	0.004801
2960	0.000000	2960	0.000233
2961	-0.000000	2961	0.000000
2962	0.000000	2962	0.002100
2963	-0.000000	2963	0.000000
2964	0.000000	2964	0.000000
2965	53.638845	2965	0.000000
2966	0.000000	2966	0.000000
2967	8.528190	2967	0.000000
2968	0.000000	2968	0.000000
2969	0.656000	2969	0.000000
2970	0.000000	2970	0.047623
2971	30.000000	2971	-0.007420
2972	1.000000	2972	-0.007941
2973	1.000000	2973	-0.006794
2974	122.004240	2974	0.000000
2975	0.000000	2975	0.012172
2976	0.000000	2976	0.018551
2977	0.000000	2977	0.001775
2978	10.203233	2978	0.000000
2979	10.000000	2979	-0.000782
2980	15.000000	2980	-0.004949
2981	5.000000	2981	-0.001819
2982	20.000000	2982	-0.008948
2983	20.000000	2983	-0.002637
2984	0.000000	2984	0.000022
2985	0.000000	2985	0.000776
2986	0.000000	2986	0.003519
2987	1.190907	2987	0.000000
2988	2.550072	2988	0.000000
2989	0.200000	2989	-0.957187
2990	2.000000	2990	-0.109437
2991	2.000000	2991	-0.083409
2992	0.000000	2992	0.000956
2993	1.163932	2993	0.000000
2994	6.435000	2994	-0.002462
2995	28.695000	2995	-0.000936
2996	0.000000	2996	0.002184
2997	0.000000	2997	0.003648
2998	0.000000	2998	0.000259
2999	0.000000	2999	-0.000144
3000	38.674988	3000	-0.001683
3001	6.435000	3001	-0.000877

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Coordenada x	Valor x	Coordenada z	Valor z
3002	0.075000	3002	-0.002567
3003	1.365000	3003	-0.019758
3004	0.000000	3004	-0.002741
3005	0.000000	3005	-0.007476
3006	13.130000	3006	-0.001479
3007	1.358804	3007	0.000000
3008	0.000000	3008	0.002155
3009	1.418691	3009	0.000000
3010	0.000000	3010	0.004483
3011	0.000000	3011	0.016331
3012	-0.000000	3012	0.000000
3013	0.000000	3013	0.001075
3014	0.000000	3014	0.001075
3015	16.268192	3015	0.000000
3016	39.929272	3016	0.000000
3017	26.286212	3017	0.000000
3018	6.308173	3018	0.000000
3019	40.141179	3019	0.000000
3020	20.769712	3020	0.000000
3021	5.600009	3021	-0.021534
3022	0.000000	3022	0.009042
3023	0.198220	3023	0.000000
3024	0.000000	3024	0.080676
3025	0.000000	3025	0.021534
3026	0.000000	3026	-0.085376
3027	2.500000	3027	-0.009042
3028	1.000000	3028	-0.046981
3029	6.000000	3029	-0.033202
3030	3.000000	3030	-0.022333
3031	3.000000	3031	-0.015811
3032	3.000000	3032	-0.009289
3033	6.000000	3033	-0.000594
3034	0.000000	3034	0.000148
3035	0.000000	3035	0.000498
3036	0.000000	3036	0.001028
3037	-0.000000	3037	0.000000
3038	0.005909	3038	0.000000
3039	73.425226	3039	0.000000
3040	0.022264	3040	0.000000
3041	11.663498	3041	0.000000
3042	0.022150	3042	0.000000
3043	2.600000	3043	0.000000
3044	0.000000	3044	0.015045
3045	25.000000	3045	-0.005355
3046	5.000000	3046	-0.005733
3047	5.000000	3047	-0.004731
3048	0.000000	3048	0.000560
3049	0.000000	3049	0.009750
3050	0.000000	3050	0.014756

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Coordenada x	Valor x	Coordenada z	Valor z
3051	0.000000	3051	0.001336
3052	12.877313	3052	0.000000
3053	120.219250	3053	0.000000
3054	15.000000	3054	-0.003541
3055	5.000000	3055	-0.001203
3056	20.000000	3056	-0.006796
3057	20.000000	3057	-0.001751
3058	0.000000	3058	0.000891
3059	0.000000	3059	0.001958
3060	0.000000	3060	0.004402
3061	1.207885	3061	0.000000
3062	0.000000	3062	0.001165
3063	0.250000	3063	-0.742743
3064	4.000000	3064	-0.081520
3065	4.000000	3065	-0.061247
3066	0.000000	3066	0.008433
3067	1.748609	3067	0.000000
3068	0.000000	3068	-0.002857
3069	0.000000	3069	-0.000651
3070	0.000000	3070	0.001601
3071	0.000000	3071	0.002116
3072	0.000000	3072	0.000210
3073	0.000000	3073	-0.000052
3074	29.750000	3074	-0.001864
3075	4.950000	3075	-0.000468
3076	0.000000	3076	-0.003116
3077	1.050000	3077	-0.039060
3078	0.000000	3078	-0.001951
3079	0.000000	3079	0.008433
3080	10.100000	3080	-0.002924
3081	1.090117	3081	0.000000
3082	0.000000	3082	0.001815
3083	2.508809	3083	0.000000
3084	-0.000000	3084	0.000000
3085	0.000000	3085	0.013646
3086	-0.000000	3086	0.000000
3087	0.000000	3087	0.000661
3088	0.000000	3088	0.000661
3089	19.649109	3089	0.000000
3090	63.813180	3090	0.000000
3091	24.358775	3091	0.000000
3092	5.757175	3092	0.000000
3093	46.450698	3093	0.000000
3094	43.126015	3094	0.000000
3095	4.791652	3095	0.000000
3096	0.000000	3096	0.006100
3097	0.000000	3097	0.019039
3098	0.000000	3098	0.071363
3099	0.000000	3099	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3100	0.000000	3100	-0.078028
3101	2.000000	3101	-0.006100
3102	1.000000	3102	-0.029261
3103	6.000000	3103	-0.028676
3104	3.000000	3104	-0.018394
3105	3.000000	3105	-0.012225
3106	3.000000	3106	-0.006056
3107	0.000000	3107	0.002169
3108	4.043912	3108	0.000000
3109	-0.000000	3109	0.000000
3110	1.985264	3110	0.000000
3111	-0.000000	3111	0.000000
3112	0.033063	3112	0.000000
3113	108.609850	3113	0.000000
3114	0.155848	3114	0.000000
3115	15.222701	3115	0.000000
3116	0.155050	3116	0.000000
3117	5.300000	3117	0.000000
3118	0.000000	3118	0.022777
3119	25.000000	3119	-0.003407
3120	15.000000	3120	-0.003675
3121	15.000000	3121	-0.002916
3122	0.000000	3122	0.000361
3123	0.000000	3123	0.007612
3124	0.000000	3124	0.012308
3125	0.000000	3125	0.001062
3126	8.397601	3126	0.000000
3127	111.217265	3127	0.000000
3128	15.000000	3128	-0.002222
3129	5.000000	3129	-0.001334
3130	20.000000	3130	-0.004088
3131	20.000000	3131	-0.000662
3132	0.000000	3132	0.001219
3133	0.000000	3133	0.002268
3134	0.000000	3134	0.004120
3135	1.801835	3135	0.000000
3136	3.284583	3136	0.000000
3137	0.250000	3137	-0.555616
3138	5.000000	3138	-0.068684
3139	5.000000	3139	-0.057816
3140	3.368532	3140	0.000000
3141	9.700472	3141	0.000000
3142	0.000000	3142	-0.000852
3143	0.000000	3143	0.000841
3144	0.000000	3144	0.002365
3145	0.000000	3145	0.004545
3146	0.000000	3146	0.000175
3147	0.000000	3147	-0.000046
3148	20.825000	3148	-0.000649

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Coordenada x	Valor x	Coordenada z	Valor z
3149	3.465000	3149	-0.001008
3150	0.000000	3150	-0.000900
3151	0.000000	3151	0.030951
3152	0.000000	3152	0.002469
3153	0.000000	3153	0.000000
3154	0.000000	3154	0.002317
3155	0.000000	3155	0.000106
3156	0.000000	3156	0.001479
3157	2.508809	3157	0.000000
3158	0.000000	3158	0.000000
3159	0.000000	3159	0.013646
3160	-0.000000	3160	0.000000
3161	0.000000	3161	0.000661
3162	0.000000	3162	0.000661
3163	24.143742	3163	0.000000
3164	28.033956	3164	0.000000
3165	20.446783	3165	0.000000
3166	5.585378	3166	0.000000
3167	50.253557	3167	0.000000
3168	77.216647	3168	0.000000
3169	8.348720	3169	-0.001223
3170	0.000000	3170	0.026284
3171	0.000000	3171	0.012830
3172	0.000000	3172	0.075124
3173	0.000000	3173	0.001223
3174	0.000000	3174	-0.078602
3175	2.000000	3175	-0.026284
3176	1.000000	3176	-0.051287
3177	6.000000	3177	-0.040325
3178	3.000000	3178	-0.032350
3179	3.000000	3179	-0.027566
3180	3.000000	3180	-0.022781
3181	6.000000	3181	-0.016402
3182	0.000000	3182	0.000083
3183	0.000000	3183	0.000092
3184	3.648121	3184	0.000000
3185	-0.000000	3185	0.000000
3186	0.107352	3186	0.000000
3187	144.356840	3187	0.000000
3188	0.623392	3188	0.000000
3189	19.104311	3189	0.000000
3190	0.620200	3190	0.000000
3191	9.500000	3191	0.000000
3192	0.000000	3192	0.007647
3193	25.000000	3193	-0.001871
3194	25.000000	3194	-0.002022
3195	25.000000	3195	-0.001105
3196	0.000000	3196	0.000196
3197	0.000000	3197	0.005674

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Coordenada x	Valor x	Coordenada z	Valor z
3198	0.000000	3198	0.008027
3199	0.000000	3199	0.000830
3200	12.889741	3200	0.000000
3201	50.230590	3201	0.000000
3202	15.000000	3202	-0.001141
3203	0.000000	3203	0.000124
3204	20.000000	3204	-0.003018
3205	0.000000	3205	0.000086
3206	0.000000	3206	0.003202
3207	0.000000	3207	0.005273
3208	0.000000	3208	0.007595
3209	0.158729	3209	0.000000
3210	5.266638	3210	0.000000
3211	0.250000	3211	-0.343171
3212	5.000000	3212	-0.042291
3213	5.000000	3213	-0.036419
3214	14.631468	3214	0.000000
3215	4.612767	3215	0.000000
3216	0.000000	3216	-0.005056
3217	0.000000	3217	-0.002889
3218	0.000000	3218	0.003722
3219	0.000000	3219	0.006825
3220	0.000000	3220	0.000109
3221	0.000000	3221	-0.000580
3222	11.900000	3222	-0.003281
3223	1.980000	3223	-0.001973
3224	0.000000	3224	-0.005285
3225	0.420000	3225	-0.153274
3226	0.000000	3226	-0.012227
3227	0.000000	3227	0.000000
3228	4.040000	3228	-0.011473
3229	0.000000	3229	0.001726
3230	0.000000	3230	0.001457
3231	0.053993	3231	0.000000
3232	-0.000000	3232	0.000000
3233	0.000000	3233	0.013414
3234	-0.000000	3234	0.000000
3235	0.000000	3235	0.000585
3236	0.000000	3236	0.000585
3237	30.287731	3237	0.000000
3238	46.463900	3238	0.000000
3239	22.967909	3239	0.000000
3240	9.306068	3240	0.000000
3241	53.925648	3241	0.000000
3242	109.966497	3242	0.000000
3243	10.193785	3243	-0.041916
3244	0.000000	3244	0.019702
3245	2.457600	3245	-0.005309
3246	0.000000	3246	0.148402

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Coordenada x	Valor x	Coordenada z	Valor z
3247	0.000000	3247	0.041916
3248	0.000000	3248	-0.154502
3249	2.000000	3249	-0.019702
3250	1.000000	3250	-0.085043
3251	6.000000	3251	-0.050712
3252	3.000000	3252	-0.029088
3253	3.000000	3253	-0.016115
3254	3.000000	3254	-0.003141
3255	0.000000	3255	0.014157
3256	0.000000	3256	0.000516
3257	0.000000	3257	0.000704
3258	0.000000	3258	0.005416
3259	-0.000000	3259	0.000000
3260	0.204866	3260	0.000000
3261	146.337565	3261	0.000000
3262	1.647536	3262	0.000000
3263	22.871756	3263	0.000000
3264	1.639100	3264	0.000000
3265	13.520000	3265	0.000000
3266	0.000000	3266	0.016941
3267	58.446911	3267	0.000000
3268	0.000000	3268	0.001175
3269	0.000000	3269	0.002700
3270	0.000000	3270	0.004254
3271	11.689382	3271	0.000000
3272	7.656545	3272	0.000000
3273	2.000000	3273	0.000000
3274	26.245889	3274	0.000000
3275	-0.000000	3275	0.000000
3276	2.887048	3276	0.000000
3277	0.000000	3277	0.747665
3278	65.583012	3278	0.000000
3279	400.569433	3279	0.000000
3280	0.000000	3280	0.000212
3281	0.000000	3281	0.000547
3282	0.000000	3282	0.000839
3283	80.113887	3283	0.000000
3284	77.229787	3284	0.000000
3285	184.537872	3285	0.000000
3286	17.995970	3286	0.000000
3287	20.818636	3287	0.000000
3288	190.000000	3288	-0.003155
3289	0.530000	3289	0.000000
3290	0.000000	3290	-0.011971
3291	0.000000	3291	-0.158419
3292	0.000000	3292	-2.051390
3293	0.117752	3293	0.000000
3294	0.000000	3294	-0.145363
3295	0.000000	3295	-0.452903

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Coordenada x	Valor x	Coordenada z	Valor z
3296	0.000000	3296	-1.347861
3297	0.530000	3297	-3.540170
3298	0.001066	3298	0.000000
3299	0.116685	3299	0.000000
3300	15.400425	3300	0.000000
3301	0.593343	3301	0.000000
3302	6.038068	3302	0.000000
3303	0.000000	3303	0.000113
3304	0.000000	3304	0.000935
3305	0.000000	3305	0.004173
3306	0.000000	3306	0.009895
3307	0.000000	3307	0.020521
3308	6.038068	3308	0.000000
3309	0.137533	3309	0.000000
3310	187.963481	3310	0.000000
3311	0.000000	3311	0.000868
3312	0.000000	3312	0.002022
3313	0.000000	3313	0.003327
3314	37.592696	3314	0.000000
3315	24.623216	3315	0.000000
3316	5.000000	3316	0.000000
3317	21.557471	3317	0.000000
3318	2.000000	3318	0.000000
3319	2.694684	3319	0.000000
3320	0.063936	3320	0.000000
3321	203.753271	3321	0.000000
3322	500.595297	3322	0.000000
3323	0.000000	3323	0.000127
3324	0.000000	3324	0.000328
3325	0.000000	3325	0.000503
3326	100.119059	3326	0.000000
3327	96.514773	3327	0.000000
3328	183.358802	3328	0.000000
3329	18.335880	3329	0.000000
3330	21.032983	3330	0.000000
3331	200.000000	3331	0.000000
3332	0.617506	3332	0.000000
3333	0.000000	3333	0.009571
3334	0.000000	3334	0.153935
3335	0.000000	3335	2.019977
3336	0.135781	3336	0.000000
3337	0.000000	3337	0.143294
3338	0.000000	3338	0.446460
3339	0.000000	3339	1.328686
3340	0.617506	3340	0.000000
3341	0.000000	3341	0.131519
3342	0.135781	3342	0.000000
3343	20.080931	3343	0.000000
3344	1.128093	3344	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3345	7.518401	3345	0.000000
3346	0.000000	3346	0.000103
3347	0.000000	3347	0.000863
3348	0.000000	3348	0.003888
3349	0.000000	3349	0.009232
3350	0.000000	3350	0.019158
3351	7.518401	3351	0.000000
3352	0.334086	3352	0.000000
3353	275.000000	3353	0.000000
3354	0.000000	3354	0.000523
3355	0.000000	3355	0.001265
3356	0.000000	3356	0.002289
3357	55.000000	3357	-0.009227
3358	36.025000	3358	0.000000
3359	3.915723	3359	0.000000
3360	18.398045	3360	0.000000
3361	6.680319	3361	0.000000
3362	2.023785	3362	0.000000
3363	0.734835	3363	0.000000
3364	281.103614	3364	0.000000
3365	524.835270	3365	0.000000
3366	175.164730	3366	0.000000
3367	0.000000	3367	0.000000
3368	0.000000	3368	0.000000
3369	140.000000	3369	-0.000326
3370	127.147653	3370	0.000000
3371	206.573902	3371	0.000000
3372	18.302897	3372	0.000000
3373	21.000000	3373	-0.062593
3374	250.000000	3374	0.000000
3375	0.750000	3375	0.000000
3376	0.000000	3376	0.000985
3377	0.000000	3377	0.029439
3378	0.000000	3378	0.397239
3379	0.192083	3379	0.000000
3380	0.000000	3380	0.028243
3381	0.000000	3381	0.087998
3382	0.000000	3382	0.261886
3383	0.750000	3383	-0.377979
3384	0.023908	3384	0.000000
3385	0.168175	3385	0.000000
3386	16.625000	3386	0.000000
3387	4.675323	3387	0.000000
3388	12.115000	3388	-0.000029
3389	0.750521	3389	0.000000
3390	0.000000	3390	0.000311
3391	0.000000	3391	0.001778
3392	0.000000	3392	0.004370
3393	0.000000	3393	0.009185

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Coordenada x	Valor x	Coordenada z	Valor z
3394	12.901546	3394	0.000000
3395	0.320133	3395	0.000000
3396	78.589608	3396	0.000000
3397	246.410392	3397	0.000000
3398	0.000000	3398	0.000113
3399	0.000000	3399	0.000713
3400	65.000000	3400	-0.001973
3401	32.348969	3401	0.000000
3402	4.944937	3402	0.000000
3403	19.365113	3403	0.000000
3404	6.921866	3404	0.000000
3405	2.130162	3405	0.000000
3406	0.628458	3406	0.000000
3407	333.799683	3407	0.000000
3408	0.000000	3408	0.000000
3409	800.000000	3409	0.000000
3410	0.000000	3410	0.000000
3411	0.000000	3411	0.000000
3412	160.000000	3412	-0.000579
3413	118.560000	3413	0.000000
3414	237.054477	3414	0.000000
3415	17.755465	3415	0.000000
3416	20.452568	3416	0.000000
3417	350.000000	3417	0.000000
3418	0.800000	3418	0.000000
3419	0.000000	3419	0.000649
3420	0.000000	3420	0.024580
3421	0.000000	3421	0.333904
3422	0.518088	3422	0.000000
3423	0.000000	3423	0.023753
3424	0.000000	3424	0.074007
3425	0.000000	3425	0.220249
3426	0.800000	3426	-0.266628
3427	0.301118	3427	0.000000
3428	0.216971	3428	0.000000
3429	21.000000	3429	0.000000
3430	5.301741	3430	0.000000
3431	12.115000	3431	-0.000017
3432	4.313526	3432	0.000000
3433	0.000000	3433	0.000235
3434	0.000000	3434	0.001441
3435	0.000000	3435	0.003572
3436	0.000000	3436	0.007530
3437	16.635575	3437	0.000000
3438	0.347956	3438	0.000000
3439	0.000000	3439	0.000094
3440	353.589608	3440	0.000000
3441	46.410392	3441	0.000000
3442	0.000000	3442	0.000524

Continua na próxima página

Coordenada x	Valor x	Coordenada z	Valor z
3443	80.000000	3443	-0.001477
3444	33.487370	3444	0.000000
3445	6.308590	3445	0.000000
3446	19.542194	3446	0.000000
3447	8.724515	3447	0.000000
3448	2.149641	3448	0.000000
3449	0.436565	3449	0.000000
3450	411.942950	3450	0.000000
3451	0.000000	3451	0.000000
3452	98.835270	3452	0.000000
3453	851.164730	3453	0.000000
3454	0.000000	3454	0.000000
3455	190.000000	3455	-0.000709
3456	80.527537	3456	0.000000
3457	244.017674	3457	0.000000
3458	16.173578	3458	0.000000
3459	18.702112	3459	0.000000
3460	500.000000	3460	0.000000
3461	0.900000	3461	0.000000
3462	0.000000	3462	0.000062
3463	0.000000	3463	0.016060
3464	0.000000	3464	0.222854
3465	0.812706	3465	0.000000
3466	0.000000	3466	0.015880
3467	0.000000	3467	0.049477
3468	0.000000	3468	0.147245
3469	0.900000	3469	-0.158503
3470	0.541031	3470	0.000000
3471	0.271675	3471	0.000000
3472	23.150000	3472	0.000000
3473	7.913556	3473	0.000000
3474	3.381976	3474	0.000000
3475	15.895953	3475	0.000000
3476	0.000000	3476	0.000130
3477	0.000000	3477	0.000972
3478	0.000000	3478	0.002459
3479	0.000000	3479	0.005221
3480	20.040935	3480	0.000000
3481	0.403126	3481	0.000000
3482	0.000000	3482	0.000269
3483	0.000000	3483	0.000096
3484	500.000000	3484	0.000000
3485	0.000000	3485	0.000459
3486	100.000000	3486	-0.001661
3487	19.835000	3487	0.000000
3488	4.868937	3488	0.000000
3489	17.085999	3489	0.000000
3490	12.850282	3490	0.000000
3491	1.879460	3491	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3492	0.079970	3492	0.000000
3493	499.844683	3493	0.000000
3494	0.000000	3494	0.000000
3495	0.000000	3495	0.000000
3496	0.000000	3496	0.000000
3497	1100.000000	3497	0.000000
3498	220.000000	3498	-0.000850
3499	17.457000	3499	0.000000
3500	205.834999	3500	0.000000
3501	13.835377	3501	0.000000
3502	15.751112	3502	0.000000
3503	700.000000	3503	0.000000
3504	0.000000	3504	0.000504
3505	1.000000	3505	0.000000
3506	0.000000	3506	0.008356
3507	0.000000	3507	0.116366
3508	1.242614	3508	0.000000
3509	0.000000	3509	0.008294
3510	0.000000	3510	0.025842
3511	0.000000	3511	0.076907
3512	1.000000	3512	-0.153526
3513	0.900000	3513	-0.017803
3514	0.342614	3514	0.000000
3515	28.099002	3515	0.000000
3516	8.556818	3516	0.000000
3517	1.828224	3517	0.000000
3518	20.960000	3518	-0.000011
3519	0.000000	3519	0.000051
3520	0.000000	3520	0.000655
3521	0.000000	3521	0.001724
3522	0.000000	3522	0.003708
3523	23.794304	3523	0.000000
3524	1.623789	3524	0.000000
3525	0.000000	3525	0.001516
3526	0.000000	3526	0.000776
3527	53.589608	3527	0.000000
3528	546.410392	3528	0.000000
3529	120.000000	3529	-0.000203
3530	5.404362	3530	0.000000
3531	5.005089	3531	0.000000
3532	11.352395	3532	0.000000
3533	17.319367	3533	0.000000
3534	0.681076	3534	0.000000
3535	1.905130	3535	0.000000
3536	595.625447	3536	0.000000
3537	0.000000	3537	0.000000
3538	0.000000	3538	0.000000
3539	648.835270	3539	0.000000
3540	701.164730	3540	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3541	270.000000	3541	-0.001164
3542	61.347334	3542	0.000000
3543	180.449315	3543	0.000000
3544	10.122578	3544	0.000000
3545	12.651112	3545	0.000000
3546	980.000000	3546	0.000000
3547	0.152494	3547	0.000000
3548	0.997506	3548	0.000000
3549	0.000000	3549	0.015162
3550	0.000000	3550	0.211150
3551	1.616506	3551	0.000000
3552	0.000000	3552	0.015050
3553	0.000000	3553	0.046891
3554	0.000000	3554	0.139550
3555	1.150000	3555	-0.672335
3556	1.200000	3556	-0.351201
3557	0.416506	3557	0.000000
3558	143.165748	3558	0.000000
3559	12.839150	3559	0.000000
3560	0.000000	3560	0.000000
3561	20.960000	3561	-0.000018
3562	23.233546	3562	0.000000
3563	0.000000	3563	0.000454
3564	0.000000	3564	0.001257
3565	0.000000	3565	0.002748
3566	53.145499	3566	0.000000
3567	0.000000	3567	0.000546
3568	0.000000	3568	0.001579
3569	0.000000	3569	0.000839
3570	0.000000	3570	0.000063
3571	0.000000	3571	0.000063
3572	-0.000000	3572	0.000000
3573	-0.000000	3573	0.000000
3574	2.372266	3574	0.000000
3575	8.655637	3575	0.000000
3576	12.798805	3576	0.000000
3577	0.000000	3577	0.012515
3578	0.690107	3578	0.000000
3579	11.861330	3579	0.000000
3580	0.000000	3580	0.000000
3581	0.000000	3581	0.000000
3582	0.000000	3582	0.000000
3583	1750.000000	3583	0.000000
3584	350.000000	3584	-0.001033
3585	27.772500	3585	0.000000
3586	171.038859	3586	0.000000
3587	9.475926	3587	0.000000
3588	10.150644	3588	0.000000
3589	1372.000000	3589	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3590	0.000000	3590	0.028676
3591	0.000000	3591	0.027407
3592	0.000000	3592	0.025439
3593	1.400000	3593	0.000000
3594	1.482709	3594	0.000000
3595	0.529677	3595	0.000000
3596	0.000000	3596	0.000000
3597	0.000000	3597	0.000000
3598	1.400000	3598	-0.597466
3599	1.500000	3599	-0.285769
3600	0.512386	3600	0.000000
3601	0.000000	3601	0.000589
3602	0.000000	3602	0.001075
3603	5.463330	3603	0.000000
3604	20.960000	3604	-0.000018
3605	9.262082	3605	0.000000
3606	0.000000	3606	0.000454
3607	0.000000	3607	0.001257
3608	0.000000	3608	0.002748
3609	39.859124	3609	0.000000
3610	0.000000	3610	0.004636
3611	0.000000	3611	0.003584
3612	0.000000	3612	0.002157
3613	0.000000	3613	0.000557
3614	-0.000000	3614	0.000000
3615	0.000000	3615	0.002508
3616	-0.000000	3616	0.000000
3617	0.000000	3617	0.003421
3618	8.655637	3618	0.000000
3619	11.720536	3619	0.000000
3620	0.952120	3620	0.000000
3621	1.289259	3621	0.000000
3622	-0.000000	3622	0.000000
3623	0.000000	3623	0.001355
3624	0.000000	3624	0.001014
3625	0.000000	3625	0.000471
3626	2448.835270	3626	0.000000
3627	489.767054	3627	0.000000
3628	38.863016	3628	0.000000
3629	158.086038	3629	0.000000
3630	15.808604	3630	0.000000
3631	18.000000	3631	-0.003087
3632	1.250000	3632	-0.000795
3633	0.928693	3633	0.000000
3634	0.000000	3634	0.025894
3635	0.000000	3635	0.360600
3636	1.679634	3636	0.000000
3637	0.000000	3637	0.023098
3638	0.000000	3638	0.071965

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Coordenada x	Valor x	Coordenada z	Valor z
3639	0.000000	3639	0.214170
3640	2.178693	3640	0.000000
3641	1.056501	3641	0.000000
3642	0.623133	3642	0.000000
3643	0.000000	3643	0.001409
3644	0.000000	3644	0.001409
3645	0.000000	3645	0.000418
3646	0.000000	3646	0.000416
3647	0.000000	3647	0.000533
3648	0.000000	3648	0.001329
3649	0.000000	3649	0.002735
3650	0.000000	3650	0.005346
3651	-0.000000	3651	0.000000
3652	0.000000	3652	0.000000

3 Variáveis Duais (Multiplicadores de Lagrange)

Tabela 2: Variáveis duais do problema PILOT

Coordenada y	Valor y
1	-0.110484
2	-0.133738
3	-0.020219
4	-0.155647
5	-0.138967
6	-0.210659
7	-0.125467
8	-0.136400
9	-0.116601
10	-0.156718
11	-0.112752
12	-0.112711
13	-0.138571
14	-0.136074
15	-0.165006
16	-0.151188
17	-0.249004
18	-1.412996
19	-0.098586
20	-0.131194
21	-0.104358
22	-0.131024
23	-0.014811
24	-0.155161
25	-0.137490
26	-0.203141

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Coordenada y	Valor y
27	-0.124220
28	-0.135707
29	-0.110279
30	-0.153177
31	-0.111791
32	-0.112296
33	-0.138044
34	-0.122383
35	-0.164361
36	-0.150951
37	-0.248417
38	-1.412415
39	-0.064193
40	-0.128316
41	-0.277475
42	-0.450334
43	-0.163124
44	-0.127198
45	-0.297559
46	-5.043348
47	-17.099817
48	-6.029387
49	-0.003333
50	-0.004486
51	-0.032536
52	-0.021956
53	-0.000000
54	-0.000000
55	-0.000000
56	-0.000000
57	-0.000000
58	-0.157198
59	-0.180800
60	-0.159294
61	-0.140018
62	-0.000000
63	-0.000000
64	-0.000000
65	-0.170411
66	-0.000000
67	-1.031758
68	-0.479933
69	-0.642588
70	-0.013131
71	-1.767111
72	-0.009908
73	-0.013791
74	-0.450334
75	-0.297559

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Coordenada y	Valor y
76	-6.029387
77	-0.450334
78	-0.071320
79	-0.000000
80	-0.000000
81	-0.000000
82	-0.159294
83	-202.561063
84	-0.186051
85	-0.374054
86	-0.271905
87	-0.335360
88	-0.249594
89	-0.482141
90	-0.353480
91	-0.110290
92	-0.070584
93	-0.310855
94	-0.196767
95	-2.732262
96	-2.635029
97	-0.840196
98	-0.966119
99	-2.493126
100	-2.493126
101	-1.748522
102	-1.748522
103	-1.748522
104	-1.748522
105	-0.450334
106	-0.297559
107	-6.029387
108	-0.246967
109	-0.106237
110	-0.135044
111	-0.202248
112	-0.380486
113	-0.156090
114	-0.000000
115	-0.450334
116	-0.000000
117	-0.002063
118	-0.087521
119	-0.242869
120	-0.163373
121	-0.005025
122	-0.023890
123	-0.167148
124	-0.023890

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Coordenada y	Valor y
125	-0.138248
126	-0.336162
127	-0.000000
128	-0.000000
129	-0.000000
130	-0.004779
131	-0.001199
132	-0.000000
133	-0.036160
134	-0.036160
135	0.051087
136	0.831294
137	-0.193990
138	-0.003180
139	-0.031859
140	-0.073629
141	-0.061714
142	-0.030435
143	-0.070861
144	-0.063293
145	-0.086853
146	-0.101631
147	-0.068917
148	-0.078781
149	-0.122781
150	-0.044202
151	-0.069765
152	-0.071136
153	-0.091734
154	-0.064209
155	-0.086299
156	-0.041410
157	-0.066952
158	-0.066588
159	-0.020370
160	-0.038110
161	-0.025239
162	-0.006401
163	-0.056247
164	-0.045311
165	-0.046607
166	-0.045721
167	-0.042422
168	-0.047098
169	-0.078696
170	-0.038375
171	-0.045781
172	-0.044529
173	-0.057316

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Coordenada y	Valor y
174	-0.049977
175	-0.023866
176	-0.028271
177	-0.052823
178	-0.012882
179	-0.099091
180	-0.206277
181	-0.371271
182	-0.148221
183	-0.348527
184	-0.371271
185	-3.730566
186	-11.032885
187	-4.203114
188	-0.003123
189	-0.004486
190	-0.028004
191	-0.000000
192	-0.000000
193	-0.000000
194	-0.000000
195	-0.000000
196	-0.000000
197	-0.059312
198	-0.062839
199	-0.068051
200	-0.050592
201	-0.000000
202	-0.000000
203	0.049114
204	-0.049114
205	-0.049114
206	-0.042598
207	-0.163337
208	-0.518001
209	-0.598825
210	-0.447952
211	-0.012175
212	-1.231861
213	-0.009339
214	-0.012778
215	-0.371271
216	-0.371271
217	-4.203114
218	-0.371271
219	-0.068356
220	-0.000000
221	-0.000000
222	-0.000000

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Coordenada y	Valor y
223	-0.068051
224	-0.047971
225	-0.562974
226	-0.404067
227	-0.455487
228	-0.383985
229	-0.577856
230	-1.177629
231	-0.620010
232	-1.158050
233	-0.707993
234	-0.828868
235	-1.588764
236	-4.203114
237	-4.203114
238	-0.371271
239	-0.099091
240	-0.000000
241	-0.125553
242	-0.000000
243	-1.290107
244	-1.284921
245	-0.842659
246	-0.845614
247	-0.918549
248	-0.936848
249	-2.100779
250	-2.115838
251	-0.588461
252	-0.581943
253	-0.793112
254	-0.777123
255	-0.654693
256	-0.685560
257	-0.491320
258	-0.636152
259	-0.529061
260	-0.529061
261	-1.218903
262	-1.218903
263	-1.218903
264	-1.218903
265	-0.371271
266	-0.371271
267	-4.203114
268	-0.064479
269	-0.020445
270	-0.022789
271	-0.043976

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Coordenada y	Valor y
272	-0.024032
273	-0.020201
274	-0.000000
275	-0.371271
276	-0.000000
277	-0.003513
278	-0.080105
279	-0.205891
280	-0.163373
281	-0.004003
282	-0.021993
283	-0.151212
284	-0.023890
285	-0.143356
286	-0.016492
287	-0.000000
288	-0.047426
289	-0.239898
290	-0.003807
291	-0.000833
292	-0.003155
293	-0.012568
294	-0.012568
295	0.026220
296	-2.125486
297	-0.447912
298	-0.002971
299	-0.013610
300	-0.043317
301	-0.037253
302	-0.033430
303	-0.044061
304	-0.058585
305	-0.045696
306	-0.053016
307	-0.046284
308	-0.041653
309	-0.058585
310	-0.046868
311	-0.049159
312	-0.054622
313	-0.043431
314	-0.045677
315	-0.040094
316	-0.041740
317	-0.048454
318	-0.047972
319	-0.019633
320	-0.023672

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Coordenada y	Valor y
321	-0.018664
322	-0.005291
323	-0.035518
324	-0.033924
325	-0.027271
326	-0.025993
327	-0.027541
328	-0.026778
329	-0.040741
330	-0.026453
331	-0.030345
332	-0.027217
333	-0.020092
334	-0.020490
335	-0.014591
336	-0.021172
337	-0.021069
338	-0.011563
339	-0.048709
340	-0.214660
341	-0.262685
342	-0.163950
343	-0.151237
344	-0.168248
345	-1.684405
346	-3.679931
347	-1.927553
348	-0.001623
349	-0.002148
350	-0.014332
351	-0.000000
352	-0.000000
353	-0.000000
354	-0.000000
355	-0.000000
356	-0.000000
357	-0.043496
358	-0.048656
359	-0.054648
360	-0.053340
361	-0.000000
362	-0.000000
363	0.058585
364	-0.058585
365	-0.058585
366	-0.040449
367	-0.489799
368	-0.182629
369	-0.271367

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Coordenada y	Valor y
370	-0.205431
371	-0.008579
372	-0.564933
373	-0.006486
374	-0.009030
375	-0.262685
376	-0.168248
377	-1.927553
378	-0.262685
379	-0.047598
380	-0.090781
381	-0.000000
382	-0.000000
383	-0.054648
384	-0.043140
385	-0.164248
386	-0.205880
387	-0.182622
388	-0.137704
389	-0.267013
390	-0.522215
391	-0.214208
392	-0.478736
393	-0.231931
394	-0.374881
395	-0.124607
396	-1.927553
397	-1.927553
398	-0.168248
399	-0.048709
400	-0.000000
401	-0.201195
402	-0.000000
403	-0.166077
404	-0.165244
405	-0.125762
406	-0.128613
407	-0.129213
408	-0.131393
409	-0.283335
410	-0.289781
411	-0.076648
412	-0.076348
413	-0.109084
414	-0.106922
415	-0.269011
416	-0.420646
417	-0.426119
418	-0.251668
Continua na próxima página	

Coordenada y	Valor y
419	-0.239753
420	-0.239753
421	-0.558990
422	-0.558990
423	-0.558990
424	-0.558990
425	-0.262685
426	-0.168248
427	-1.927553
428	-0.049943
429	-0.017270
430	-0.024723
431	-0.029295
432	-0.026808
433	-0.026643
434	-0.029295
435	-0.044475
436	-0.000000
437	-0.001501
438	-0.071808
439	-0.203830
440	-0.163373
441	-0.000920
442	-0.019147
443	-0.104469
444	-0.019147
445	-0.106666
446	-0.551610
447	-0.473707
448	-0.000000
449	-0.005253
450	-0.002720
451	-0.000285
452	-0.000000
453	-0.009731
454	-0.009731
455	0.016306
456	-0.686677
457	-0.185978
458	-0.001441
459	-0.010930
460	-0.034197
461	-0.028238
462	-0.029030
463	-0.034007
464	-0.045734
465	-0.035733
466	-0.043435
467	-0.036154

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Coordenada y	Valor y
468	-0.033188
469	-0.046446
470	-0.022404
471	-0.024135
472	-0.026275
473	-0.033680
474	-0.035443
475	-0.033956
476	-0.032936
477	-0.037007
478	-0.033893
479	-0.015478
480	-0.018402
481	-0.013375
482	-0.003933
483	-0.027077
484	-0.026251
485	-0.020696
486	-0.020120
487	-0.021063
488	-0.020028
489	-0.031414
490	-0.016493
491	-0.017805
492	-0.018596
493	-0.014919
494	-0.015490
495	-0.010951
496	-0.016460
497	-0.015392
498	-0.008837
499	-0.038121
500	-0.150017
501	-0.192236
502	-0.100287
503	-0.088624
504	-0.100997
505	-0.864015
506	-2.477056
507	-1.102768
508	-0.001354
509	-0.002148
510	-0.011333
511	-0.000000
512	-0.000000
513	-0.000000
514	-0.000000
515	-0.000000
516	-0.000000

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Coordenada y	Valor y
517	-0.032666
518	-0.035331
519	-0.032154
520	-0.027580
521	-0.000000
522	-0.000000
523	0.035733
524	-0.035733
525	-0.035733
526	-0.030450
527	-0.434426
528	-0.130025
529	-0.162899
530	-0.117529
531	-0.005794
532	-0.323203
533	-0.004344
534	-0.006109
535	-0.192236
536	-0.100997
537	-1.102768
538	-0.192236
539	-0.031705
540	-0.204835
541	-0.000000
542	-0.000000
543	-0.032154
544	-0.027834
545	-0.215572
546	-0.128678
547	-0.122589
548	-0.077859
549	-0.176261
550	-0.326243
551	-0.159939
552	-0.310535
553	-0.172008
554	-0.263351
555	-0.323004
556	-1.102768
557	-1.102768
558	-0.100997
559	-0.038121
560	-0.000000
561	-0.135037
562	-0.000000
563	-0.130888
564	-0.127763
565	-0.087220

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Coordenada y	Valor y
566	-0.084868
567	-0.096528
568	-0.094087
569	-0.217841
570	-0.215043
571	-0.059247
572	-0.057248
573	-0.083075
574	-0.077585
575	-0.245482
576	-0.028830
577	-0.090689
578	-0.265021
579	-0.143921
580	-0.143921
581	-0.319803
582	-0.319803
583	-0.319803
584	-0.319803
585	-0.192236
586	-0.100997
587	-1.102768
588	-0.036321
589	-0.012900
590	-0.019039
591	-0.022417
592	-0.021227
593	-0.020925
594	-0.022417
595	-0.025253
596	-0.000000
597	-0.001562
598	-0.059197
599	-0.143153
600	-0.111265
601	-0.000708
602	-0.019147
603	-0.102462
604	-0.019147
605	-0.107723
606	-0.051867
607	-0.000000
608	-0.000000
609	-0.173768
610	-0.001068
611	-0.000285
612	-0.000000
613	-0.007066
614	-0.007066

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Coordenada y	Valor y
615	0.012645
616	-0.567968
617	-0.149797
618	-0.001185
619	-0.006431
620	-0.021678
621	-0.021537
622	-0.026070
623	-0.022444
624	-0.027752
625	-0.023275
626	-0.028325
627	-0.023741
628	-0.023411
629	-0.031089
630	-0.015638
631	-0.015699
632	-0.017764
633	-0.022983
634	-0.026258
635	-0.018136
636	-0.024801
637	-0.027478
638	-0.024276
639	-0.012677
640	-0.012390
641	-0.010015
642	-0.003106
643	-0.018157
644	-0.016858
645	-0.014078
646	-0.013705
647	-0.014017
648	-0.014195
649	-0.021511
650	-0.011507
651	-0.012076
652	-0.012815
653	-0.010175
654	-0.011088
655	-0.007683
656	-0.012120
657	-0.010426
658	-0.007091
659	-0.027063
660	-0.127834
661	-0.155284
662	-0.099576
663	-0.093450

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Coordenada y	Valor y
664	-0.107661
665	-0.597916
666	-2.868567
667	-0.769815
668	-0.000979
669	-0.001294
670	-0.008543
671	-0.000000
672	-0.000000
673	-0.000000
674	-0.000000
675	-0.000000
676	-0.000000
677	-0.024446
678	-0.027356
679	-0.022932
680	-0.019874
681	-0.000000
682	-0.000000
683	0.025377
684	-0.025377
685	-0.025377
686	-0.024915
687	-0.420384
688	-0.126157
689	-0.173647
690	-0.082043
691	-0.004247
692	-0.225620
693	-0.003180
694	-0.004479
695	-0.155284
696	-0.107661
697	-0.769815
698	-0.155284
699	-0.022560
700	-0.255839
701	-0.004511
702	-0.000000
703	-0.022932
704	-0.021341
705	-0.121805
706	-0.112130
707	-0.101972
708	-0.078348
709	-0.160959
710	-0.330810
711	-0.122844
712	-0.263660
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Coordenada y	Valor y
713	-0.133519
714	-0.223554
715	-0.347136
716	-0.769815
717	-0.769815
718	-0.107661
719	-0.027063
720	-0.000000
721	-0.278478
722	-0.000000
723	-0.075780
724	-0.074712
725	-0.052509
726	-0.051351
727	-0.057573
728	-0.056418
729	-0.126720
730	-0.125870
731	-0.034332
732	-0.033609
733	-0.049577
734	-0.048548
735	-0.200440
736	-0.238291
737	-0.000000
738	-0.064047
739	-0.153417
740	-0.153417
741	-0.223246
742	-0.223246
743	-0.223246
744	-0.223246
745	-0.155284
746	-0.107661
747	-0.769815
748	-0.027826
749	-0.010615
750	-0.016115
751	-0.016543
752	-0.017356
753	-0.017528
754	-0.016543
755	-0.032060
756	-0.000814
757	-0.000888
758	-0.056933
759	-0.137448
760	-0.111265
761	-0.000600
Continua na próxima página	

Coordenada y	Valor y
762	-0.019147
763	-0.101429
764	-0.019147
765	-0.108267
766	-0.052882
767	-0.000000
768	-0.000000
769	-0.080980
770	-0.000866
771	-0.000285
772	-0.000000
773	-0.005471
774	-0.005471
775	0.008629
776	-0.438108
777	-0.119013
778	-0.000827
779	-0.004586
780	-0.014080
781	-0.016705
782	-0.021541
783	-0.015195
784	-0.018116
785	-0.015926
786	-0.019213
787	-0.016003
788	-0.016817
789	-0.021400
790	-0.011406
791	-0.010759
792	-0.012681
793	-0.016193
794	-0.019303
795	-0.009533
796	-0.018426
797	-0.020300
798	-0.016422
799	-0.009872
800	-0.008517
801	-0.007480
802	-0.002388
803	-0.012465
804	-0.011421
805	-0.009912
806	-0.009651
807	-0.009612
808	-0.010269
809	-0.015118
810	-0.008267

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Coordenada y	Valor y
811	-0.008504
812	-0.009095
813	-0.007165
814	-0.008027
815	-0.005414
816	-0.008872
817	-0.007275
818	-0.005457
819	-0.020297
820	-0.107115
821	-0.129031
822	-0.098748
823	-0.103058
824	-0.113986
825	-0.491008
826	-2.152540
827	-0.609763
828	-0.000747
829	-0.001294
830	-0.006443
831	-0.000000
832	-0.000000
833	-0.000000
834	-0.000000
835	-0.000000
836	-0.000000
837	-0.023358
838	-0.026159
839	-0.021963
840	-0.014874
841	-0.000000
842	-0.000000
843	0.018116
844	-0.018116
845	-0.018116
846	-0.019265
847	-0.358759
848	-0.102369
849	-0.183848
850	-0.064987
851	-0.003212
852	-0.178711
853	-0.002385
854	-0.003393
855	-0.098291
856	-0.113986
857	-0.609763
858	-0.129031
859	-0.016272

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Coordenada y	Valor y
860	-0.225231
861	-0.026154
862	-0.041443
863	-0.021963
864	-0.016284
865	-0.072784
866	-0.101861
867	-0.092882
868	-0.078093
869	-0.156698
870	-0.341866
871	-0.102677
872	-0.238929
873	-0.113205
874	-0.204280
875	-0.264644
876	-0.609763
877	-0.609763
878	-0.113986
879	-0.020297
880	-0.000000
881	-0.303035
882	-0.000000
883	-0.048843
884	-0.047831
885	-0.035598
886	-0.034521
887	-0.038595
888	-0.037505
889	-0.082390
890	-0.081515
891	-0.022091
892	-0.021421
893	-0.033064
894	-0.032172
895	-0.167679
896	-0.186460
897	-0.000000
898	-0.059193
899	-0.162430
900	-0.162430
901	-0.176831
902	-0.176831
903	-0.176831
904	-0.176831
905	-0.129031
906	-0.113986
907	-0.609763
908	-0.026366
Continua na próxima página	

Coordenada y	Valor y
909	-0.008771
910	-0.012922
911	-0.012151
912	-0.013305
913	-0.013549
914	-0.012151
915	-0.038519
916	-0.000403
917	-0.000931
918	-0.055012
919	-0.131630
920	-0.111265
921	-0.000481
922	-0.019147
923	-0.100301
924	-0.019147
925	-0.108861
926	-0.049381
927	-0.000000
928	-0.000000
929	-0.000000
930	-0.000789
931	-0.000285
932	-0.000000
933	-0.005232
934	-0.005232
935	0.007192
936	-0.301993
937	-0.087862
938	-0.000594
939	-0.004393
940	-0.014745
941	-0.010455
942	-0.008110
943	-0.014454
944	-0.019850
945	-0.016247
946	-0.022478
947	-0.016002
948	-0.014450
949	-0.029644
950	-0.008431
951	-0.010532
952	-0.009992
953	-0.015742
954	-0.011014
955	-0.019983
956	-0.010116
957	-0.011830

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Coordenada y	Valor y
958	-0.012982
959	-0.004670
960	-0.007449
961	-0.004694
962	-0.001299
963	-0.011078
964	-0.011045
965	-0.008625
966	-0.008883
967	-0.008810
968	-0.008431
969	-0.017508
970	-0.006707
971	-0.007420
972	-0.008012
973	-0.005800
974	-0.005466
975	-0.004260
976	-0.005531
977	-0.005723
978	-0.002745
979	-0.036985
980	-0.098591
981	-0.115419
982	-0.096380
983	-0.084268
984	-0.092642
985	-0.535992
986	-1.496728
987	-0.651320
988	-0.000599
989	-0.000796
990	-0.005416
991	-0.000000
992	-0.000000
993	-0.000000
994	-0.000000
995	-0.000000
996	-0.000000
997	-0.015798
998	-0.016160
999	-0.015826
1000	-0.010038
1001	0.005094
1002	-0.000000
1003	0.015046
1004	-0.015046
1005	-0.015046
1006	-0.008930

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Coordenada y	Valor y
1007	-0.111970
1008	-0.106986
1009	-0.195374
1010	-0.069415
1011	-0.002350
1012	-0.190891
1013	-0.001710
1014	-0.002492
1015	-0.094190
1016	-0.092642
1017	-0.651320
1018	-0.115419
1019	-0.011325
1020	-0.177300
1021	-0.028438
1022	-0.058708
1023	-0.015826
1024	-0.009590
1025	-0.104880
1026	-0.071071
1027	-0.060214
1028	-0.050732
1029	-0.127706
1030	-0.275082
1031	-0.110744
1032	-0.218765
1033	-0.108739
1034	-0.196761
1035	-0.267138
1036	-0.651320
1037	-0.651320
1038	-0.092642
1039	-0.036985
1040	-0.000000
1041	-0.245414
1042	-0.000000
1043	-0.043905
1044	-0.043670
1045	-0.032997
1046	-0.032225
1047	-0.035436
1048	-0.034691
1049	-0.074375
1050	-0.073957
1051	-0.019835
1052	-0.019396
1053	-0.030247
1054	-0.030241
1055	-0.167519

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Coordenada y	Valor y
1056	-0.235328
1057	-0.000000
1058	-0.034269
1059	-0.132015
1060	-0.132015
1061	-0.188883
1062	-0.188883
1063	-0.188883
1064	-0.188883
1065	-0.115419
1066	-0.092642
1067	-0.651320
1068	-0.016531
1069	-0.004961
1070	-0.005868
1071	-0.008220
1072	-0.005605
1073	-0.005195
1074	-0.008220
1075	-0.054190
1076	-0.000504
1077	-0.000606
1078	-0.041368
1079	-0.126199
1080	-0.111265
1081	-0.000218
1082	-0.019147
1083	-0.097810
1084	-0.019147
1085	-0.105691
1086	-0.000000
1087	-0.040746
1088	-0.000000
1089	-0.018771
1090	-0.000248
1091	-0.000285
1092	-0.000000
1093	-0.003232
1094	-0.003232
1095	0.027860
1096	-0.280234
1097	-0.067638
1098	-0.000446
1099	-0.002619
1100	-0.007068
1101	-0.010180
1102	-0.015875
1103	-0.007882
1104	-0.008965
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Coordenada y	Valor y
1105	-0.009065
1106	-0.010793
1107	-0.007853
1108	-0.010356
1109	-0.011300
1110	-0.006284
1111	-0.006068
1112	-0.007126
1113	-0.008277
1114	-0.010851
1115	-0.003827
1116	-0.011031
1117	-0.011915
1118	-0.007507
1119	-0.006393
1120	-0.004610
1121	-0.004506
1122	-0.001541
1123	-0.006654
1124	-0.005918
1125	-0.005595
1126	-0.005365
1127	-0.004967
1128	-0.006045
1129	-0.008198
1130	-0.004659
1131	-0.004761
1132	-0.005111
1133	-0.003309
1134	-0.004030
1135	-0.003022
1136	-0.005148
1137	-0.003671
1138	-0.003475
1139	-0.026075
1140	-0.094550
1141	-0.108092
1142	-0.097478
1143	-0.095843
1144	-0.100445
1145	-0.191773
1146	-1.695989
1147	-0.213127
1148	-0.000599
1149	-0.000796
1150	-0.005416
1151	-0.000000
1152	-0.000000
1153	-0.000000

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Coordenada y	Valor y
1154	-0.000000
1155	-0.000000
1156	-0.000000
1157	-0.024718
1158	-0.026920
1159	-0.023181
1160	-0.008474
1161	0.008700
1162	-0.000000
1163	0.010180
1164	-0.010180
1165	-0.010180
1166	-0.012164
1167	-0.267421
1168	-0.041357
1169	-0.084125
1170	-0.022714
1171	-0.001237
1172	-0.062464
1173	-0.000850
1174	-0.001329
1175	-0.018197
1176	-0.100445
1177	-0.213127
1178	-0.108092
1179	-0.009256
1180	-0.126688
1181	-0.000000
1182	-0.008682
1183	-0.023181
1184	-0.010310
1185	-0.079364
1186	-0.078533
1187	-0.074177
1188	-0.069942
1189	-0.135518
1190	-0.294514
1191	-0.092876
1192	-0.182827
1193	-0.095295
1194	-0.181600
1195	-0.138741
1196	-0.213127
1197	-0.213127
1198	-0.100445
1199	-0.026075
1200	-0.000000
1201	-0.245994
1202	-0.000000

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Coordenada y	Valor y
1203	-0.004855
1204	-0.004005
1205	-0.000000
1206	-0.000000
1207	-0.000000
1208	-0.000000
1209	-0.008368
1210	-0.000000
1211	-0.000000
1212	-0.000000
1213	-0.000000
1214	-0.000000
1215	-0.048125
1216	-0.039856
1217	-0.000000
1218	-0.025889
1219	-0.143134
1220	-0.143134
1221	-0.061807
1222	-0.061807
1223	-0.061807
1224	-0.061807
1225	-0.108092
1226	-0.100445
1227	-0.213127
1228	-0.026816
1229	-0.006850
1230	-0.008809
1231	-0.007113
1232	-0.008207
1233	-0.008417
1234	-0.007113
1235	-0.055111
1236	-0.001646
1237	-0.000571
1238	-0.041368
1239	-0.126199
1240	-0.106783
1241	-0.000328
1242	-0.019147
1243	-0.098849
1244	-0.019147
1245	-0.105144
1246	-0.000000
1247	-0.000000
1248	-0.000000
1249	-0.000000
1250	-0.000312
1251	-0.000285

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Coordenada y	Valor y
1252	-0.000000
1253	-0.004795
1254	-0.004309
1255	0.020968
1256	-0.093972
1257	-0.052641
1258	-0.000446
1259	-0.000000
1260	-0.014496
1261	-0.024426
1262	-0.032558
1263	-0.017032
1264	-0.021316
1265	-0.020576
1266	-0.024479
1267	-0.016509
1268	-0.023487
1269	-0.028396
1270	-0.015602
1271	-0.013617
1272	-0.017135
1273	-0.021646
1274	-0.023400
1275	-0.008144
1276	-0.020834
1277	-0.024287
1278	-0.020051
1279	-0.013089
1280	-0.009806
1281	-0.009839
1282	-0.003267
1283	-0.014547
1284	-0.013842
1285	-0.012785
1286	-0.012629
1287	-0.011086
1288	-0.014131
1289	-0.020100
1290	-0.011162
1291	-0.011100
1292	-0.012049
1293	-0.012280
1294	-0.012714
1295	-0.006890
1296	-0.010710
1297	-0.010477
1298	-0.007198
1299	-0.029195
1300	-0.197748

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Coordenada y	Valor y
1301	-0.235279
1302	-0.198188
1303	-0.192953
1304	-0.218338
1305	-0.949184
1306	-4.175970
1307	-1.279830
1308	-0.000516
1309	-0.000704
1310	-0.005416
1311	-0.000000
1312	-0.000000
1313	-0.000000
1314	-0.000000
1315	-0.000000
1316	-0.000000
1317	-0.002214
1318	-0.007046
1319	-0.000000
1320	-0.020143
1321	0.022073
1322	-0.000000
1323	0.024479
1324	-0.024479
1325	-0.024479
1326	-0.025232
1327	-0.543598
1328	-0.235888
1329	-0.352158
1330	-0.136399
1331	-0.005288
1332	-0.375096
1333	-0.003870
1334	-0.005603
1335	-0.235279
1336	-0.218338
1337	-1.279830
1338	-0.235279
1339	-0.019962
1340	-0.097912
1341	-0.000000
1342	-0.097539
1343	-0.000000
1344	-0.022541
1345	-0.172318
1346	-0.166253
1347	-0.157701
1348	-0.128660
1349	-0.288798

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Coordenada y	Valor y
1350	-0.654977
1351	-0.176616
1352	-0.439397
1353	-0.199426
1354	-0.369347
1355	-0.519283
1356	-1.279830
1357	-1.270763
1358	-0.218338
1359	-0.029195
1360	-0.577672
1361	-0.173095
1362	-0.000000
1363	-0.188928
1364	-0.187262
1365	-0.128008
1366	-0.125756
1367	-0.142032
1368	-0.139777
1369	-0.313371
1370	-0.319700
1371	-0.087858
1372	-0.086413
1373	-0.122950
1374	-0.120048
1375	-0.334225
1376	-0.396907
1377	-0.000000
1378	-0.106879
1379	-0.311132
1380	-0.311132
1381	-0.371151
1382	-0.371151
1383	-0.371151
1384	-0.371151
1385	-0.235279
1386	-0.218338
1387	-1.279830
1388	-0.006764
1389	-0.016024
1390	-0.018386
1391	-0.015550
1392	-0.015968
1393	-0.016347
1394	-0.015550
1395	-0.119452
1396	-0.000000
1397	-0.000410
1398	-0.024821

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Coordenada y	Valor y
1399	-0.126199
1400	-0.106783
1401	-0.000684
1402	-0.011488
1403	-0.197968
1404	-0.019147
1405	-0.000000
1406	-1.147260
1407	-0.970756
1408	-0.191475
1409	-0.137799
1410	-0.000149
1411	-0.000163
1412	-0.000000
1413	-0.000000
1414	-0.000000
1415	0.008127
1416	-0.657532
1417	-0.171402
1418	-0.000782
1419	-0.000000
1420	-0.006687
1421	-0.004230
1422	-0.001393
1423	-0.000000
1424	-0.003407
1425	-0.002553
1426	-0.001197
1427	-0.000019
1428	-0.000225
1429	-0.000000
1430	-0.000000
1431	-0.000000
1432	-0.000000
1433	-0.000000
1434	-0.000000
1435	-0.000000
1436	-0.000031
1437	-0.000023
1438	-0.000000
1439	-0.000000
1440	-0.000000
1441	-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 PILOT.

- As variáveis duais representam os multiplicadores de Lagrange das restrições.
- Os custos reduzidos (\bar{z}) indicam o impacto de forçar variáveis não-básicas na base.