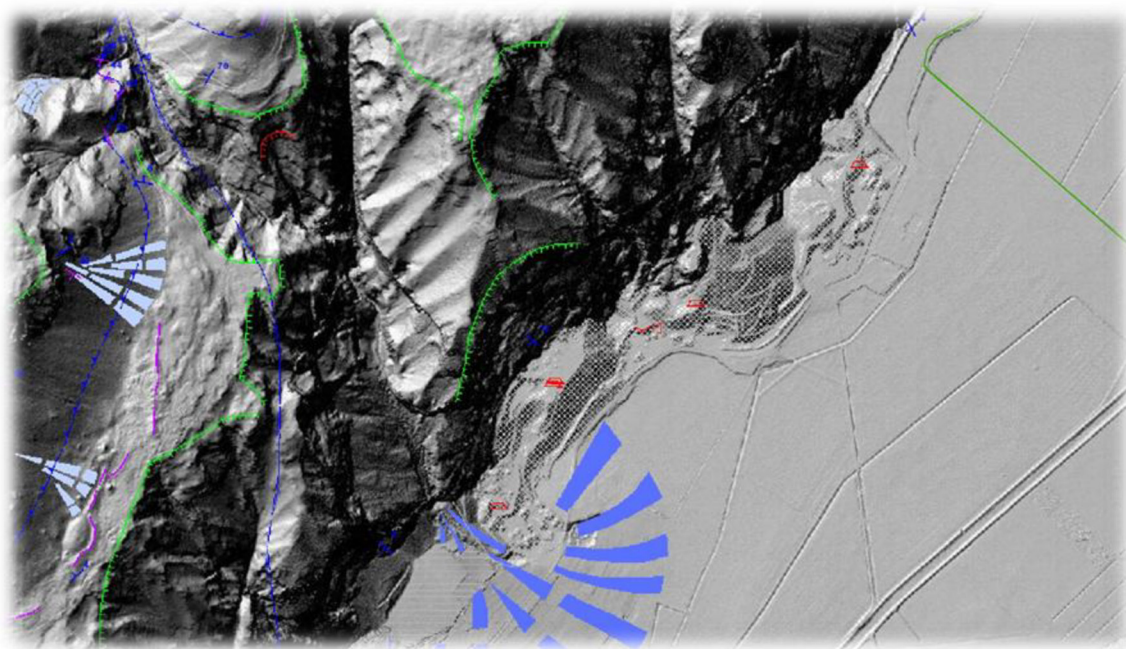


*Comune di Mezzocorona
Provincia Autonoma di Trento
Committente:
Comune di Mezzocorona*

OGGETTO

**COLTIVAZIONE DELLE CAVE DI PROPRIETÀ DEL COMUNE DI MEZZOCORONA
CIG: B509D4AFA2**



ALLEGATO 6

**REPORT 2D PROVE E TAVOLE MODELLAZIONE CADUTA MASSI SATO DI FATTO
LOTTO L1**



Via Mons. D. Caproni, 58
38056 Levico Terme (Tn)

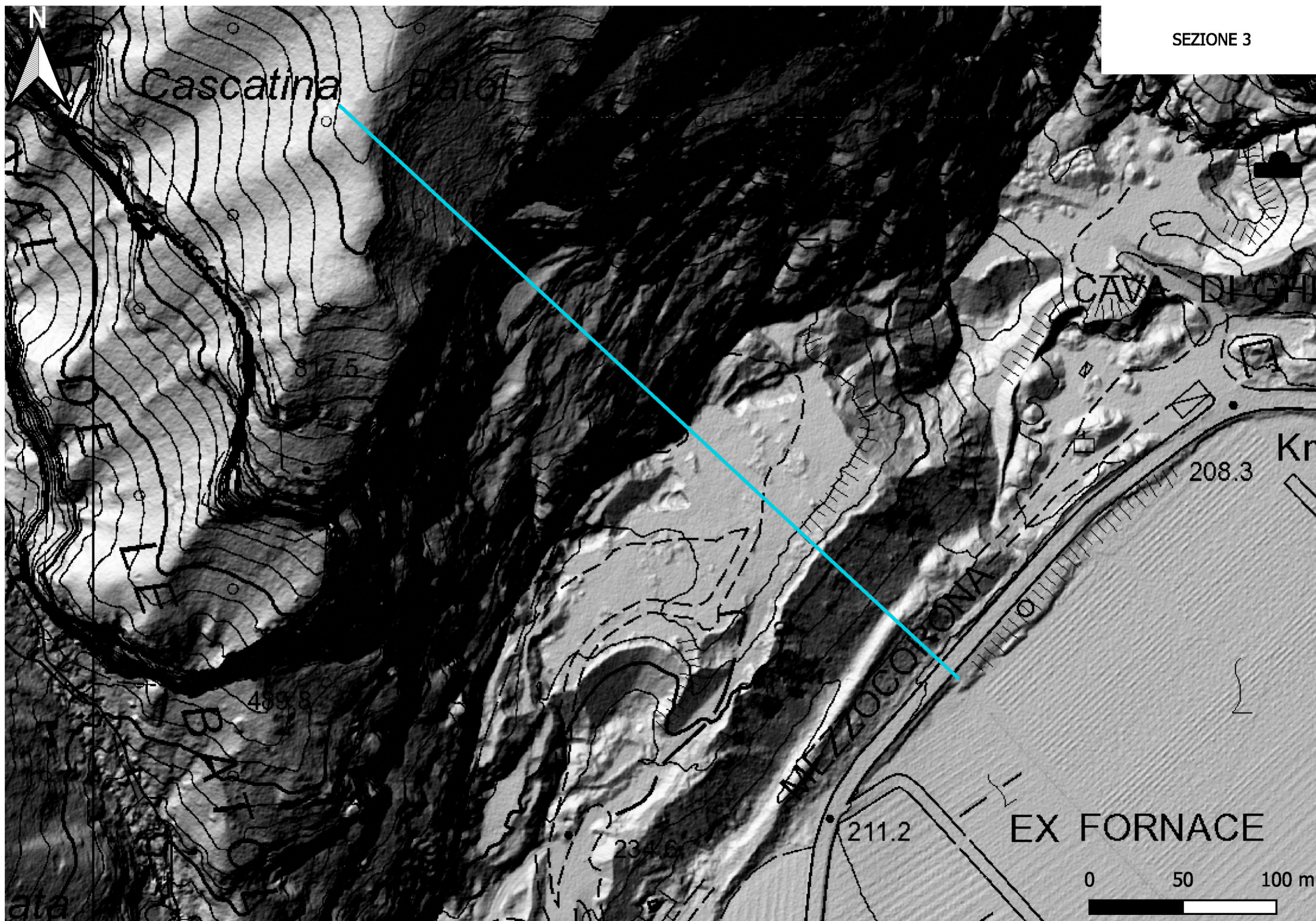


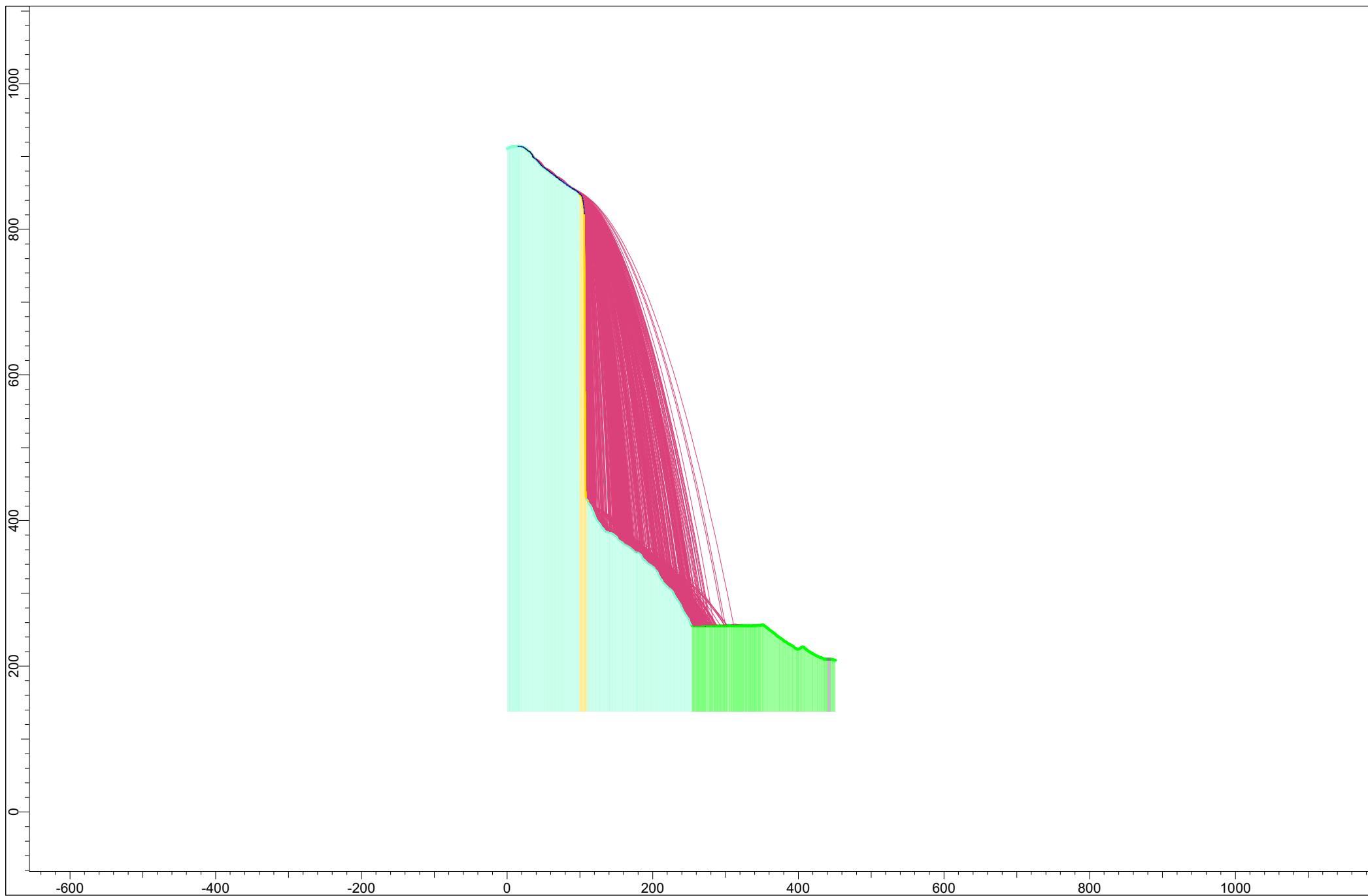
PEC e.perina@geotaspec.it
perina.emilio@gmail.com



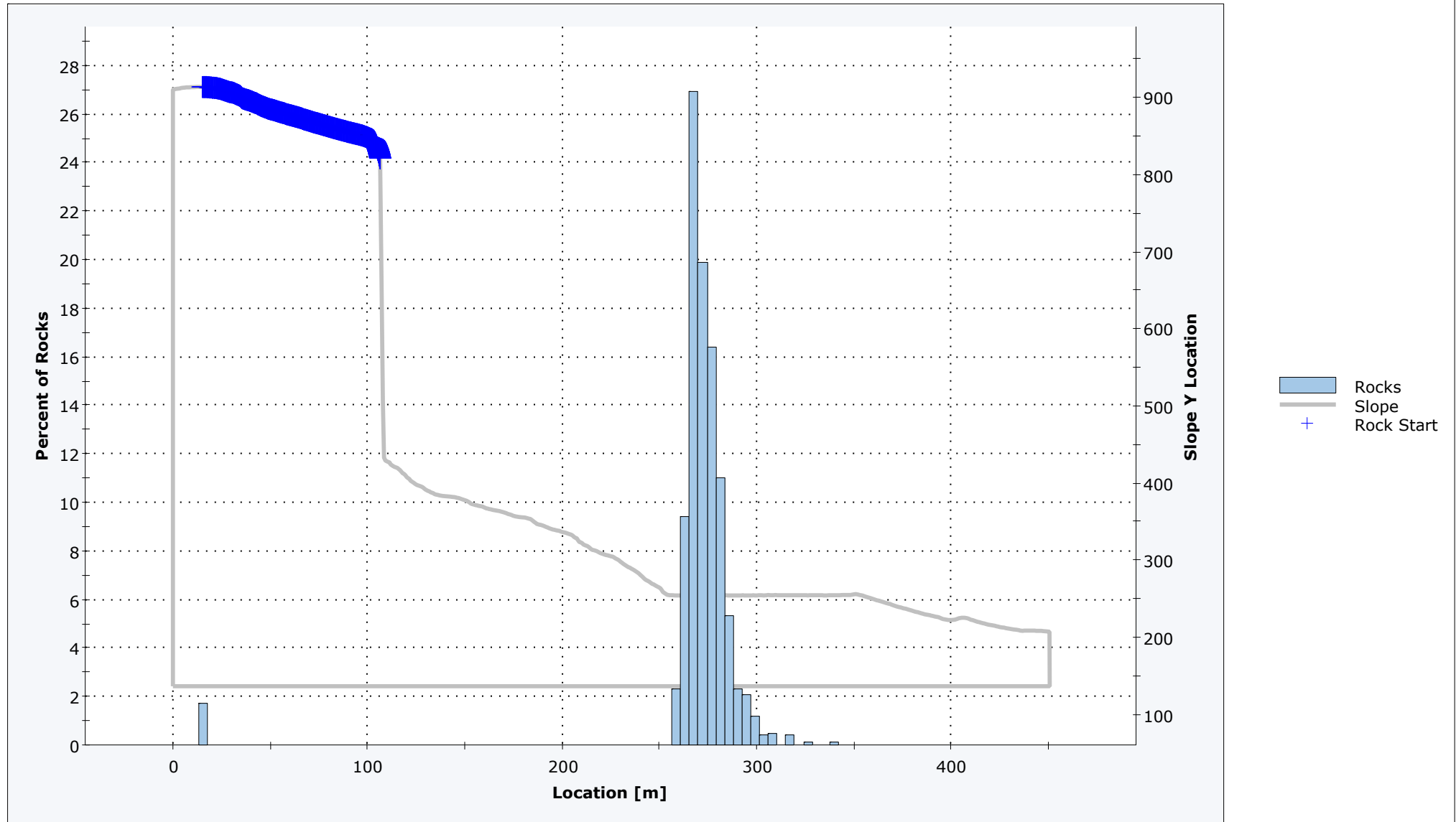
347 1663624

P.IVA 02303140228 / C.F. PRNMLE86M27L378K



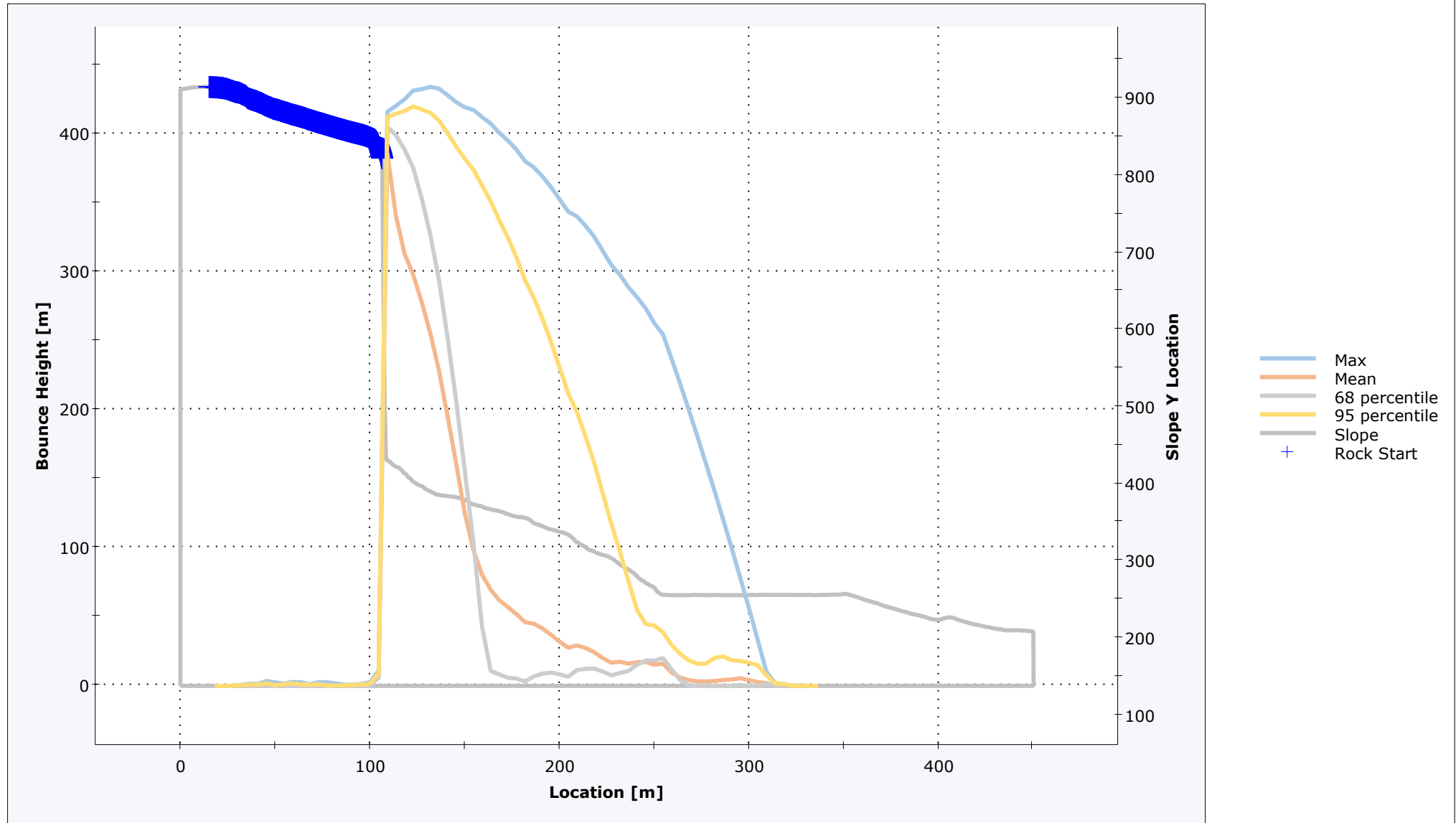


Distribution of Rock Path End Locations



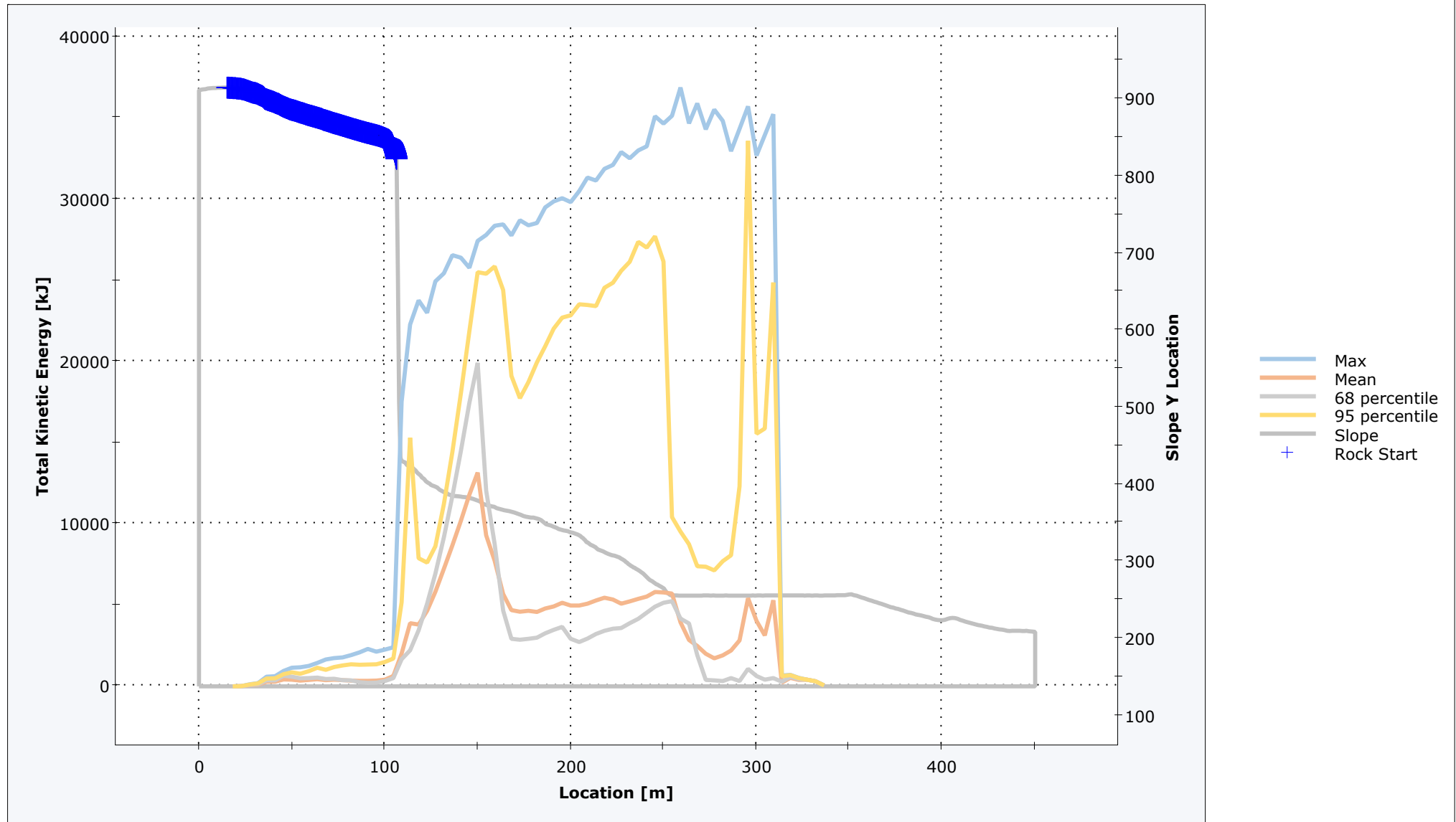
Total number of rock paths: 1000

Bounce Height on Slope



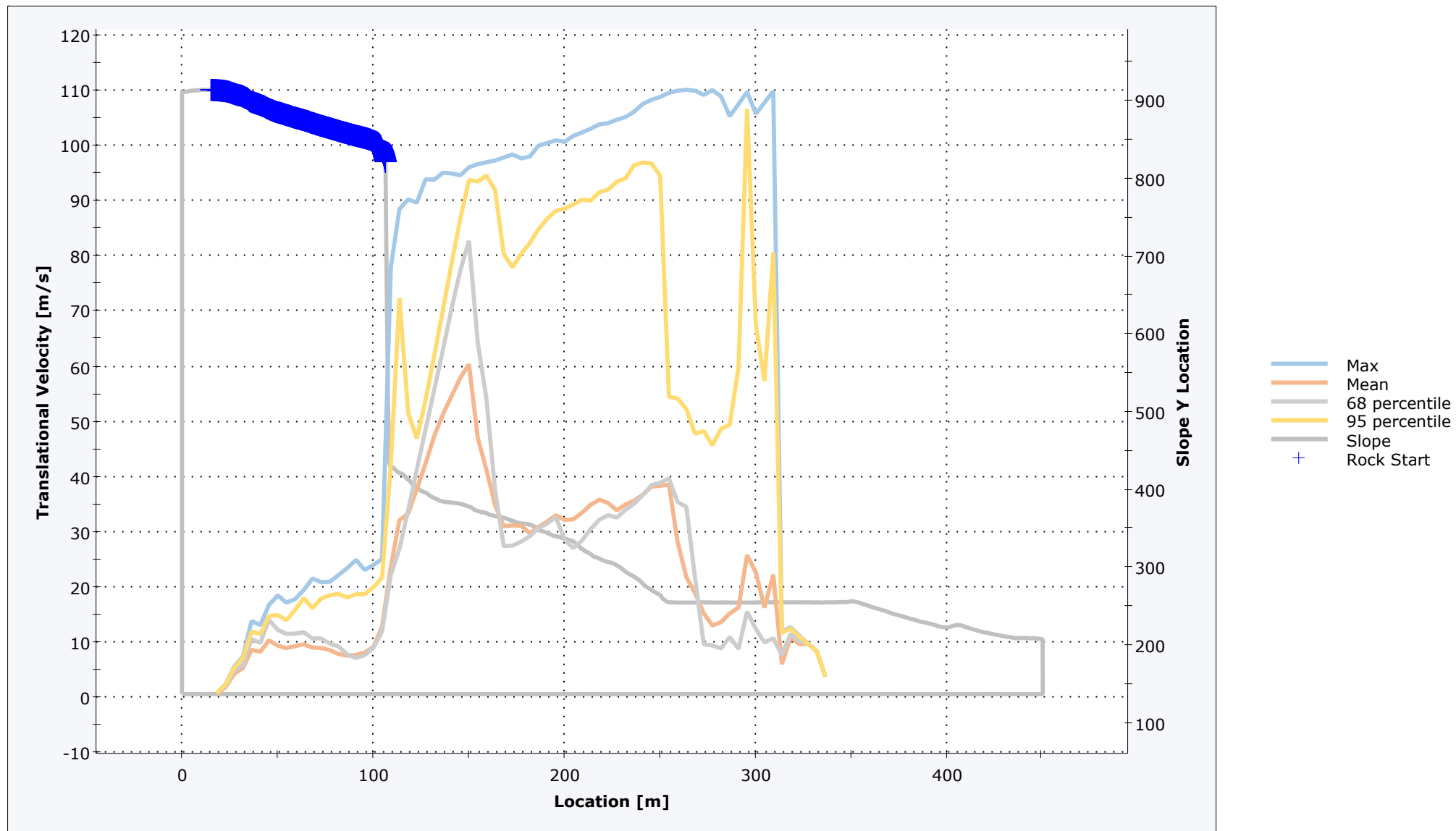
Total number of rock paths: 1000

Total Kinetic Energy on Slope

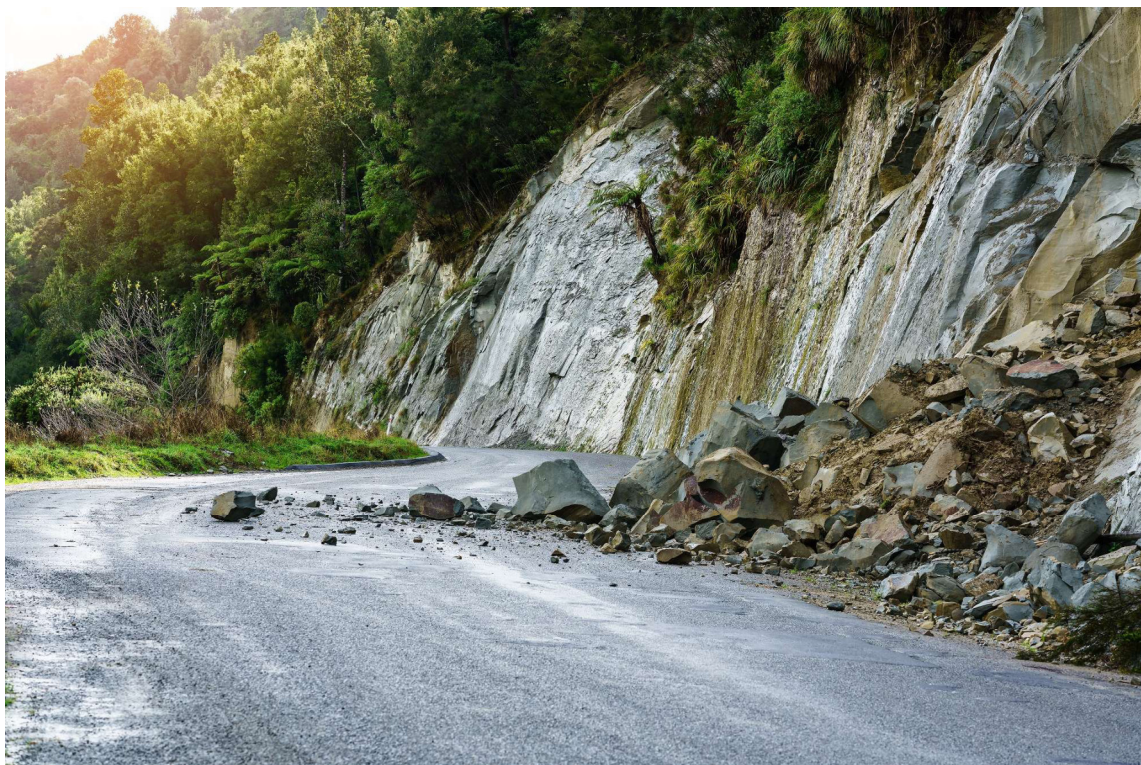


Total number of rock paths: 1000

Translational Velocity on Slope



Total number of rock paths: 1000



RocFall2 Model2_sezione3
Date Created: 04/04/2025, 08:52:29
Software Version: 8.025

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RocFall2 Model2_sezione3

RocFall2 Analysis Information

Project Summary

File Name	RocFall2 Model2_sezione3
File Version	8.025
Date Created	04/04/2025, 08:52:29

Project Settings

General Settings

Engine	Lump Mass
Units	Metric (m, kg, kJ)
Rock throw mode	Number of rocks controlled by seeder

Engine Conditions

Friction angle	Use friction angle from material editor
Consider angular velocity	Yes
Maximum steps per rock	20000
Normal velocity cutoff (m/s)	0.1
Stopped velocity cutoff (m/s)	0.1
Maximum timestep (s)	0.01
Switch velocity (m/s)	-1e-09

Random Number Generation

Sampling method	Latin-Hypercube
Material Properties Sampling	Per simulation
Random seed	Pseudo-random seed: 12345234

Slope Geometry

Vertex	X	Y	X Std.Dev.	Y Std.Dev.
1	0	910.69		
2	0.681917	911.08		
3	1.36383	911.41		
4	2.04575	911.61		
5	2.72767	911.9		
6	3.40959	912.16		
7	4.0915	912.54		
8	4.77342	912.87		
9	5.45534	913.17		
10	6.13726	913.39		
11	6.81917	913.45		
12	7.50109	913.54		
13	8.18301	913.66		
14	8.86493	913.68		
15	9.54684	913.86		
16	10.2288	913.85		
17	10.9107	913.84		
18	11.5926	913.93		
19	12.2745	914		
20	12.9564	914.09		
21	13.6383	914.14		
22	14.3203	914.15		
23	15.0022	914.19		
24	15.6841	914.11		
25	16.366	914.05		
26	17.0479	914.05		
27	17.7299	913.95		
28	18.4118	913.78		
29	19.0937	913.57		
30	19.7756	913.42		
31	20.4575	913.29		
32	21.1394	913.1		
33	21.8214	912.95		
34	22.5033	912.67		
35	23.1852	912.3		
36	23.8671	911.9		
37	24.549	911.5		
38	25.2309	910.93		
39	25.9129	910.27		
40	26.5948	909.67		
41	27.2767	909.16		
42	27.9586	908.57		
43	28.6405	907.88		
44	29.3225	907.4		
45	30.0044	907.23		
46	30.6863	906.87		
47	31.3682	906.24		

48	32.0501	905.25
49	32.732	904.56
50	33.414	903.82
51	34.0959	903.09
52	34.7778	901.81
53	35.4597	899.64
54	36.1416	899.11
55	36.8235	898.38
56	37.5055	897.68
57	38.1874	897.34
58	38.8693	896.91
59	39.5512	896.19
60	40.2331	895.58
61	40.915	894.92
62	41.597	894.04
63	42.2789	893.49
64	42.9608	892.95
65	43.6427	891.77
66	44.3246	890.58
67	45.0066	890.02
68	45.6885	889.3
69	46.3704	888.61
70	47.0523	888.01
71	47.7342	887.39
72	48.4161	886.6
73	49.0981	885.93
74	49.78	885.31
75	50.4619	884.75
76	51.1438	884.46
77	51.8257	884.14
78	52.5076	883.42
79	53.1896	882.86
80	53.8715	882.4
81	54.5534	881.91
82	55.2353	881.35
83	55.9172	880.92
84	56.5992	880.5
85	57.2811	880.11
86	57.963	879.19
87	58.6449	878.63
88	59.3268	878.3
89	60.0087	877.76
90	60.6907	877.32
91	61.3726	876.93
92	62.0545	876.39
93	62.7364	875.8
94	63.4183	875.18
95	64.1002	874.67
96	64.7822	874.23
97	65.4641	873.81
98	66.146	873.49
99	66.8279	872.56
100	67.5098	872.02

101	68.1917	871.64
102	68.8737	871.11
103	69.5556	870.63
104	70.2375	870.12
105	70.9194	869.57
106	71.6013	868.95
107	72.2833	868.36
108	72.9652	867.91
109	73.6471	867.49
110	74.329	867.03
111	75.0109	866.58
112	75.6928	865.94
113	76.3748	865.42
114	77.0567	865.02
115	77.7386	864.55
116	78.4205	864.01
117	79.1024	863.46
118	79.7843	862.92
119	80.4663	862.33
120	81.1482	861.84
121	81.8301	861.42
122	82.512	861.03
123	83.1939	860.54
124	83.8759	859.94
125	84.5578	859.46
126	85.2397	859.09
127	85.9216	858.63
128	86.6035	858.23
129	87.2854	857.76
130	87.9674	857.27
131	88.6493	856.95
132	89.3312	856.28
133	90.0131	855.84
134	90.695	855.54
135	91.3769	855.05
136	92.0589	854.51
137	92.7408	854.17
138	93.4227	853.69
139	94.1046	853.28
140	94.7865	852.98
141	95.4684	852.41
142	96.1504	852.05
143	96.8323	851.6
144	97.5142	851.06
145	98.1961	850.41
146	98.878	849.81
147	99.56	849.27
148	100.242	848.48
149	100.924	847.48
150	101.606	846.92
151	102.288	846.22
152	102.97	844.77
153	103.651	842.71

154	104.333	839.01
155	105.015	834.49
156	105.697	829.17
157	106.379	821.57
158	107.061	667.17
159	107.743	507.4
160	108.425	434
161	109.107	429.98
162	109.789	429.09
163	110.471	428.35
164	111.153	427.77
165	111.834	425.11
166	112.516	423.76
167	113.198	422.75
168	113.88	421.78
169	114.562	421.43
170	115.244	420.43
171	115.926	419.02
172	116.608	417.4
173	117.29	415.33
174	117.972	413.78
175	118.654	412.74
176	119.336	410.93
177	120.017	408.57
178	120.699	407.37
179	121.381	406.17
180	122.063	403.73
181	122.745	402.6
182	123.427	401.46
183	124.109	400.63
184	124.791	399.08
185	125.473	398.07
186	126.155	397.51
187	126.837	397.05
188	127.519	396.45
189	128.2	395.52
190	128.882	394.12
191	129.564	392.68
192	130.246	391.62
193	130.928	390.72
194	131.61	390.01
195	132.292	389.1
196	132.974	388.66
197	133.656	387.76
198	134.338	386.57
199	135.02	385.96
200	135.702	385.62
201	136.383	385.24
202	137.065	384.87
203	137.747	384.59
204	138.429	384.33
205	139.111	384.08
206	139.793	383.89

207	140.475	383.82
208	141.157	383.64
209	141.839	383.36
210	142.521	383.32
211	143.203	383.13
212	143.885	382.97
213	144.567	382.78
214	145.248	382.21
215	145.93	381.81
216	146.612	381.38
217	147.294	380.94
218	147.976	380.31
219	148.658	379.78
220	149.34	379.26
221	150.022	378.68
222	150.704	377.96
223	151.386	377.59
224	152.068	376.09
225	152.75	374.68
226	153.431	373.76
227	154.113	373.48
228	154.795	373.01
229	155.477	372.39
230	156.159	371.85
231	156.841	371.4
232	157.523	371.14
233	158.205	370.81
234	158.887	370.42
235	159.569	369.61
236	160.251	368.69
237	160.933	368.27
238	161.614	367.7
239	162.296	367.31
240	162.978	366.9
241	163.66	366.38
242	164.342	366.07
243	165.024	365.73
244	165.706	365.54
245	166.388	365.14
246	167.07	364.88
247	167.752	364.53
248	168.434	364.09
249	169.116	363.51
250	169.797	363.02
251	170.479	362.45
252	171.161	361.84
253	171.843	361.12
254	172.525	360.54
255	173.207	360.1
256	173.889	359.46
257	174.571	358.74
258	175.253	357.87
259	175.935	357.58

260	176.617	357.3
261	177.299	357.09
262	177.98	356.88
263	178.662	356.61
264	179.344	356.54
265	180.026	356.38
266	180.708	356.1
267	181.39	355.64
268	182.072	355.25
269	182.754	354.83
270	183.436	354.31
271	184.118	353.38
272	184.8	352.01
273	185.482	350.65
274	186.163	349.41
275	186.845	348
276	187.527	347.3
277	188.209	346.85
278	188.891	346.66
279	189.573	346.17
280	190.255	345.43
281	190.937	344.49
282	191.619	344.02
283	192.301	343.47
284	192.983	342.58
285	193.665	341.73
286	194.346	341.32
287	195.028	340.86
288	195.71	340.38
289	196.392	339.95
290	197.074	339.49
291	197.756	339.37
292	198.438	338.87
293	199.12	338.2
294	199.802	337.55
295	200.484	337.15
296	201.166	336.77
297	201.848	336.28
298	202.529	335.64
299	203.211	335.05
300	203.893	334.34
301	204.575	333.8
302	205.257	332.79
303	205.939	331.3
304	206.621	330.04
305	207.303	329.41
306	207.985	326.63
307	208.667	324.73
308	209.349	324
309	210.031	323.05
310	210.713	321.46
311	211.394	320.61
312	212.076	320

313	212.758	319.19
314	213.44	318.05
315	214.122	316.72
316	214.804	315.06
317	215.486	314.28
318	216.168	314.04
319	216.85	313.33
320	217.532	312.69
321	218.214	311.72
322	218.896	310.82
323	219.577	310.11
324	220.259	309.61
325	220.941	308.99
326	221.623	308.35
327	222.305	307.8
328	222.987	307.42
329	223.669	307.02
330	224.351	306.54
331	225.033	305.84
332	225.715	305.49
333	226.397	304.57
334	227.079	303.65
335	227.76	302.72
336	228.442	301.76
337	229.124	300.48
338	229.806	299.07
339	230.488	297.85
340	231.17	296.31
341	231.852	295.1
342	232.534	293.97
343	233.216	293.05
344	233.898	292.02
345	234.58	291.19
346	235.262	290.2
347	235.943	289.32
348	236.625	288.39
349	237.307	287.09
350	237.989	285.99
351	238.671	284.84
352	239.353	283.46
353	240.035	281.92
354	240.717	280.43
355	241.399	278.6
356	242.081	277
357	242.763	275.47
358	243.445	274.59
359	244.126	273.76
360	244.808	272.44
361	245.49	271.32
362	246.172	270.29
363	246.854	269.52
364	247.536	268.38
365	248.218	267.39

366	248.9	266.58
367	249.582	265.72
368	250.264	264.63
369	250.946	262.24
370	251.628	259.86
371	252.309	258.5
372	252.991	257.38
373	253.673	256.2
374	254.355	255.73
375	255.037	255.56
376	255.719	255.52
377	256.401	255.49
378	257.083	255.47
379	257.765	255.44
380	258.447	255.31
381	259.129	255.35
382	259.811	255.39
383	260.492	255.32
384	261.174	255.38
385	261.856	255.31
386	262.538	255.31
387	263.22	255.38
388	263.902	255.41
389	264.584	255.37
390	265.266	255.32
391	265.948	255.3
392	266.63	255.34
393	267.312	255.27
394	267.994	255.32
395	268.675	255.27
396	269.357	255.28
397	270.039	255.37
398	270.721	255.43
399	271.403	255.46
400	272.085	255.46
401	272.767	255.49
402	273.449	255.41
403	274.131	255.45
404	274.813	255.42
405	275.495	255.44
406	276.177	255.4
407	276.858	255.47
408	277.54	255.39
409	278.222	255.38
410	278.904	255.36
411	279.586	255.39
412	280.268	255.41
413	280.95	255.43
414	281.632	255.47
415	282.314	255.41
416	282.996	255.39
417	283.678	255.48
418	284.36	255.47

419	285.042	255.4
420	285.723	255.43
421	286.405	255.35
422	287.087	255.36
423	287.769	255.35
424	288.451	255.4
425	289.133	255.39
426	289.815	255.39
427	290.497	255.4
428	291.179	255.4
429	291.861	255.35
430	292.543	255.45
431	293.225	255.44
432	293.906	255.41
433	294.588	255.38
434	295.27	255.43
435	295.952	255.41
436	296.634	255.35
437	297.316	255.32
438	297.998	255.45
439	298.68	255.4
440	299.362	255.42
441	300.044	255.42
442	300.726	255.49
443	301.408	255.47
444	302.089	255.47
445	302.771	255.45
446	303.453	255.42
447	304.135	255.44
448	304.817	255.53
449	305.499	255.79
450	306.181	255.73
451	306.863	255.66
452	307.545	255.64
453	308.227	255.62
454	308.909	255.64
455	309.591	255.76
456	310.272	255.71
457	310.954	255.69
458	311.636	255.7
459	312.318	255.72
460	313	255.69
461	313.682	255.64
462	314.364	255.58
463	315.046	255.53
464	315.728	255.57
465	316.41	255.62
466	317.092	255.62
467	317.774	255.62
468	318.455	255.61
469	319.137	255.57
470	319.819	255.58
471	320.501	255.53

472	321.183	255.53
473	321.865	255.51
474	322.547	255.46
475	323.229	255.48
476	323.911	255.53
477	324.593	255.53
478	325.275	255.45
479	325.957	255.4
480	326.638	255.46
481	327.32	255.48
482	328.002	255.51
483	328.684	255.49
484	329.366	255.49
485	330.048	255.43
486	330.73	255.51
487	331.412	255.55
488	332.094	255.59
489	332.776	255.45
490	333.458	255.49
491	334.14	255.43
492	334.821	255.41
493	335.503	255.4
494	336.185	255.51
495	336.867	255.54
496	337.549	255.51
497	338.231	255.6
498	338.913	255.62
499	339.595	255.65
500	340.277	255.6
501	340.959	255.62
502	341.641	255.63
503	342.323	255.68
504	343.004	255.72
505	343.686	255.78
506	344.368	255.82
507	345.05	255.87
508	345.732	255.94
509	346.414	255.98
510	347.096	255.97
511	347.778	255.96
512	348.46	256.05
513	349.142	256.34
514	349.824	256.67
515	350.506	257.02
516	351.188	257.01
517	351.869	256.49
518	352.551	255.98
519	353.233	255.45
520	353.915	255.15
521	354.597	254.53
522	355.279	254.05
523	355.961	253.55
524	356.643	252.98

525	357.325	252.48
526	358.007	251.97
527	358.689	251.32
528	359.371	250.9
529	360.052	250.26
530	360.734	249.67
531	361.416	249.08
532	362.098	248.67
533	362.78	248.06
534	363.462	247.48
535	364.144	247.13
536	364.826	246.59
537	365.508	246.06
538	366.19	245.55
539	366.872	245.16
540	367.554	244.72
541	368.235	244.22
542	368.917	243.49
543	369.599	242.77
544	370.281	242.14
545	370.963	241.64
546	371.645	241.02
547	372.327	240.54
548	373.009	239.97
549	373.691	239.75
550	374.373	239.17
551	375.055	238.68
552	375.737	238.28
553	376.418	237.9
554	377.1	237.46
555	377.782	236.84
556	378.464	236.37
557	379.146	235.88
558	379.828	235.28
559	380.51	234.71
560	381.192	234.18
561	381.874	233.66
562	382.556	233.42
563	383.238	233.07
564	383.92	232.48
565	384.601	232.04
566	385.283	231.54
567	385.965	231
568	386.647	230.7
569	387.329	230.43
570	388.011	230.04
571	388.693	229.66
572	389.375	229.23
573	390.057	228.74
574	390.739	228.32
575	391.421	228.05
576	392.103	227.74
577	392.784	227.32

578	393.466	226.84
579	394.148	225.99
580	394.83	225.33
581	395.512	224.74
582	396.194	224.45
583	396.876	224.26
584	397.558	223.77
585	398.24	223.54
586	398.922	223.4
587	399.604	223.38
588	400.286	223.41
589	400.967	223.76
590	401.649	223.98
591	402.331	224.67
592	403.013	225.24
593	403.695	225.8
594	404.377	226.18
595	405.059	226.38
596	405.741	226.54
597	406.423	226.47
598	407.105	226.19
599	407.787	225.73
600	408.469	225.2
601	409.15	224.55
602	409.832	223.83
603	410.514	223.43
604	411.196	222.81
605	411.878	222.12
606	412.56	221.6
607	413.242	221.14
608	413.924	220.64
609	414.606	220.13
610	415.288	219.78
611	415.97	219.3
612	416.652	218.93
613	417.333	218.49
614	418.015	218.05
615	418.697	217.61
616	419.379	217.19
617	420.061	216.98
618	420.743	216.64
619	421.425	216.28
620	422.107	215.85
621	422.789	215.41
622	423.471	215.08
623	424.153	214.7
624	424.835	214.26
625	425.517	213.94
626	426.198	213.79
627	426.88	213.48
628	427.562	213.14
629	428.244	212.76
630	428.926	212.58

631	429.608	212.23
632	430.29	211.79
633	430.972	211.54
634	431.654	211.37
635	432.336	211.2
636	433.018	211.04
637	433.7	210.74
638	434.381	210.23
639	435.063	209.86
640	435.745	209.71
641	436.427	209.56
642	437.109	209.67
643	437.791	209.77
644	438.473	209.76
645	439.155	209.73
646	439.837	209.68
647	440.519	209.72
648	441.201	209.67
649	441.883	209.66
650	442.564	209.66
651	443.246	209.58
652	443.928	209.51
653	444.61	209.54
654	445.292	209.62
655	445.974	209.41
656	446.656	209.16
657	447.338	209.03
658	448.02	208.8
659	448.702	208.67
660	449.384	208.42
661	450.066	208.24
662	450.116	208.24
663	450.172	208.24

Slope Material Assignment

Material	From Vertex	To Vertex
Limestone weathered	1	147
Limestone clean	147	161
Limestone weathered	161	164
Limestone clean	164	165
Limestone weathered	165	373
Talus Cover	373	646
Asphalt	646	653
Talus Cover	653	663

Material Properties

Talus Cover

"Talus Cover" Properties

Color					
	Mean	Distribution	Std.Dev.	Rel. Min	Rel. Max
Normal Restitution	0.31	Normal	0.04	0.12	0.12
Tangential Restitution	0.81	Normal	0.04	0.12	0.12
Friction Angle (°)	12.38	None			
Slope Roughness (°)		None			

Asphalt

"Asphalt" Properties

Color					
	Mean	Distribution	Std.Dev.	Rel. Min	Rel. Max
Normal Restitution	0.45	Normal	0.01	0.03	0.03
Tangential Restitution	0.95	Normal	0.01	0.03	0.03
Friction Angle (°)	30	None			
Slope Roughness (°)		None			

Limestone clean

"Limestone clean" Properties

Color					
	Mean	Distribution	Std.Dev.	Rel. Min	Rel. Max
Normal Restitution	0.4	Normal	0.004	0.012	0.012
Tangential Restitution	0.9	Normal	0.03	0.09	0.09
Friction Angle (°)	22	None			
Slope Roughness (°)		None			

Limestone weathered

"Limestone weathered" Properties

Color					
	Mean	Distribution	Std.Dev.	Rel. Min	Rel. Max
Normal Restitution	0.36	Normal	0.04	0.12	0.12
Tangential Restitution	0.87	Normal	0.04	0.12	0.12
Friction Angle (°)	10	None			
Slope Roughness (°)		None			

Seeders

Seeder 1

Seeder Properties

Name	Seeder 1
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Location	(15.0022, 914.19),
	(19.7756, 913.42),
	(22.5033, 912.67),
	(24.549, 911.5),
	(25.9129, 910.27),
	(27.2767, 909.16),
	(27.9586, 908.57),
	(28.6405, 907.88),
	(30.0044, 907.23),
	(30.6863, 906.87),
	(31.3682, 906.24),
	(32.732, 904.56),
	(33.414, 903.82),
	(34.0959, 903.09),
	(34.7778, 901.81),
	(35.4597, 899.64),
	(36.1416, 899.11),
	(36.8235, 898.38),
	(40.2331, 895.58),
	(41.597, 894.04),
	(42.9608, 892.95),
	(43.6427, 891.77),
	(45.6885, 889.3),
	(47.0523, 888.01),
	(49.0981, 885.93),
	(51.8257, 884.14),
	(54.5534, 881.91),
	(56.5992, 880.5),
	(57.963, 879.19),
	(59.3268, 878.3),
	(61.3726, 876.93),
	(66.146, 873.49),
	(66.8279, 872.56),
	(68.1917, 871.64),
	(69.5556, 870.63),
	(71.6013, 868.95),
	(72.2833, 868.36),
	(73.6471, 867.49),
	(74.329, 867.03),
	(77.0567, 865.02),
	(82.512, 861.03),
	(85.9216, 858.63),
	(90.0131, 855.84),
	(91.3769, 855.05),
	(92.7408, 854.17),
	(96.8323, 851.6),
	(98.1961, 850.41),
	(100.242, 848.48),
	(102.288, 846.22),
	(103.651, 842.71),
	(104.333, 839.01),
	(105.015, 834.49),
	(105.697, 829.17),
	(106.379, 821.57)

Rocks to Throw		
Number of Rocks	1000	Overall
Rock Types	Group 1	
Initial Conditions		

	Mean	Distribution	Std.Dev.	Rel. Min	Rel. Max
Horizontal Velocity (m/s)	0.5	Normal	0.15	0.45	0.45
Vertical Velocity (m/s)	0.5	Normal	0.15	0.45	0.45
Rotational Velocity (deg/s)	0	None			
Initial Rotation (deg/s)	0	Uniform		0	360

Rock Types

Group 1

Properties					
Name	Group 1				
Color					
	Mean	Distribution	Std.Dev.	Rel. Min	Rel. Max
Mass (kg)	5787.8	Normal	100	300	300
Density (kg/m3)	2600	Normal	0.15	0.45	0.45

Summary Results

Run Properties

Simulation Time (s)	0.49		
Envelope data:			
	Max	Mean	95%
Envelope Bounce Height (m)	433.3	387.9	419.2
Envelope Total Kinetic Energy (kJ)	3.482e+04	1.329e+04	3.482e+04
Envelope Translational Kinetic Energy (kJ)	3.428e+04	1.31e+04	3.428e+04
Envelope Rotational Kinetic Energy (kJ)	1597	676.9	1597
Envelope Translational Kinetic Velocity (m/s)	108.4	61	108.4
Envelope Rotational Kinetic Velocity (rad/s)	45.86	28.58	45.86

Stopping Reason

CONTINUE	0
Invalid Start Location	0
Invalid Slope Geometry	0
Invalid bad crest loss definition	0
Invalid relative size between rock and slope	0
Max Steps	0
Edge Model	0
Stopped	1000
Stopped (wedged)	0
Stopped (chattering)	0
Hit Barrier	0
Hit Berm with infinite capacity	0
No collision found	0
Bad Collision Geometry (location before)	0
Rock is freefalling onto a spike or a trough	0
END_ERROR_UNKNOWN	0
END_ERROR_POSITIVE_GAP	0
Bad collision calculation	0
Bad Collision Geometry (0 intersection)	0
Bad Collision Geometry (location after)	0
Bad Collision Geometry (missing intersection)	0
Error during results reading	0
Total Rocks	1000

Generated Path Details

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
0	Group 1	Sphere	45.71	889.3	99.45	0.461	0.7167	0
1	Group 1	Sphere	44.31	891	289.9	0.3307	0.7586	0
2	Group 1	Sphere	72.49	868.2	153.6	0.3776	0.6483	0
3	Group 1	Sphere	25.11	911	211.9	0.2703	0.6725	0
4	Group 1	Sphere	54.53	881.9	72.19	0.4058	0.322	0
5	Group 1	Sphere	102.5	845.8	320.4	0.6395	0.6359	0
6	Group 1	Sphere	84.98	859.3	253.6	0.7544	0.4072	0
7	Group 1	Sphere	33.36	903.9	63.74	0.4521	0.8784	0
8	Group 1	Sphere	57.86	879.3	3.483	0.3841	0.5133	0
9	Group 1	Sphere	101.3	847.3	243.9	0.4897	0.2867	0
10	Group 1	Sphere	103.9	841.3	335.2	0.3622	0.5845	0
11	Group 1	Sphere	80.38	862.6	160.6	0.5631	0.5314	0
12	Group 1	Sphere	102.8	844.9	15.65	0.6201	0.5394	0
13	Group 1	Sphere	47	888.1	257.9	0.5979	0.499	0
14	Group 1	Sphere	22.25	912.7	320.3	0.3919	0.6015	0
15	Group 1	Sphere	24.18	911.7	149.3	0.695	0.4616	0
16	Group 1	Sphere	105.5	830.9	117.6	0.5174	0.6109	0
17	Group 1	Sphere	84.4	859.7	96.46	0.65	0.5481	0
18	Group 1	Sphere	35.94	899.3	113.7	0.2776	0.5033	0
19	Group 1	Sphere	33.06	904.2	70.85	0.539	0.4239	0
20	Group 1	Sphere	53.59	882.7	343.2	0.1835	0.5552	0
21	Group 1	Sphere	48.82	886.2	50.56	0.6762	0.4743	0
22	Group 1	Sphere	95.9	852.2	249.1	0.6162	0.7819	0
23	Group 1	Sphere	103.8	842.2	16.91	0.8068	0.3506	0
24	Group 1	Sphere	63.9	875.1	324.9	0.5209	0.3372	0
25	Group 1	Sphere	87.3	857.7	76.16	0.4386	0.5697	0
26	Group 1	Sphere	37.45	897.9	242.2	0.4972	0.5716	0
27	Group 1	Sphere	85.38	859	179.7	0.5869	0.6608	0
28	Group 1	Sphere	39.65	896.1	341.3	0.4337	0.603	0
29	Group 1	Sphere	74.21	867.1	184.7	0.4408	0.2801	0
30	Group 1	Sphere	105.2	833.4	175.7	0.4006	0.6907	0
31	Group 1	Sphere	30.57	906.9	344.4	0.5945	0.3826	0
32	Group 1	Sphere	25.57	910.6	208.8	0.4677	0.6871	0
33	Group 1	Sphere	70.91	869.5	135.2	0.3441	0.7531	0
34	Group 1	Sphere	72.94	867.9	78.62	0.2684	0.2406	0
35	Group 1	Sphere	103.3	843.7	310.4	0.4142	0.5612	0
36	Group 1	Sphere	85.69	858.8	19.04	0.4204	0.7616	0
37	Group 1	Sphere	106.3	822.5	111.2	0.494	0.2767	0
38	Group 1	Sphere	69.16	870.9	267.3	0.2171	0.4399	0
39	Group 1	Sphere	51.32	884.5	204.3	0.6884	0.6408	0
40	Group 1	Sphere	77.13	865	242.9	0.5524	0.5774	0
41	Group 1	Sphere	105.5	830.5	224.7	0.56	0.5271	0
42	Group 1	Sphere	31.32	906.3	295.1	0.2962	0.1249	0
43	Group 1	Sphere	106.1	825.2	319.4	0.6513	0.4056	0
44	Group 1	Sphere	102.7	845.2	191.9	0.3665	0.7111	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
45	Group 1	Sphere	35.21	900.4	292.5	0.6536	0.4292	0
46	Group 1	Sphere	72.08	868.5	2.044	0.1769	0.3256	0
47	Group 1	Sphere	28.41	908.1	171.7	0.3641	0.5702	0
48	Group 1	Sphere	38	897.4	71.33	0.4363	0.5546	0
49	Group 1	Sphere	48.36	886.7	112.3	0.3792	0.5957	0
50	Group 1	Sphere	91	855.3	304.2	0.3529	0.3633	0
51	Group 1	Sphere	79.24	863.4	289.2	0.4635	0.5219	0
52	Group 1	Sphere	57.97	879.2	0.2467	0.4869	0.414	0
53	Group 1	Sphere	66.92	872.5	113.3	0.586	0.524	0
54	Group 1	Sphere	16.92	913.9	131.2	0.253	0.5538	0
55	Group 1	Sphere	103.7	842.5	40.35	0.6207	0.583	0
56	Group 1	Sphere	68.79	871.2	204.7	0.6086	0.2318	0
57	Group 1	Sphere	30.24	907.1	183.9	0.6344	0.5868	0
58	Group 1	Sphere	52.37	883.7	330.5	0.4987	0.6938	0
59	Group 1	Sphere	98.14	850.5	287.7	0.5259	0.4505	0
60	Group 1	Sphere	103.6	842.9	233.4	0.3657	0.2921	0
61	Group 1	Sphere	103.6	842.7	28.41	0.628	0.6824	0
62	Group 1	Sphere	96.67	851.7	189	0.3757	0.5816	0
63	Group 1	Sphere	21.3	913	252.1	0.4482	0.4477	0
64	Group 1	Sphere	105.5	830.7	233	0.6805	0.5783	0
65	Group 1	Sphere	104	840.8	243.7	0.5227	0.4228	0
66	Group 1	Sphere	83.68	860.2	263.1	0.4441	0.294	0
67	Group 1	Sphere	56.94	880.2	309.5	0.3194	0.3125	0
68	Group 1	Sphere	35	901.1	190.2	0.5604	0.3451	0
69	Group 1	Sphere	44.5	890.7	292	0.9492	0.3051	0
70	Group 1	Sphere	64.1	875	182.8	0.6577	0.738	0
71	Group 1	Sphere	76.01	865.8	78.14	0.5136	0.4025	0
72	Group 1	Sphere	76.73	865.3	356.7	0.5332	0.4612	0
73	Group 1	Sphere	39.51	896.2	88.65	0.2973	0.4207	0
74	Group 1	Sphere	75.01	866.5	122.4	0.3871	0.6005	0
75	Group 1	Sphere	98.39	850.2	21.86	0.3217	0.3914	0
76	Group 1	Sphere	96.02	852.1	312.7	0.5657	0.3879	0
77	Group 1	Sphere	60.83	877.3	323.6	0.2277	0.2084	0
78	Group 1	Sphere	105.4	831.8	156.9	0.2296	0.3573	0
79	Group 1	Sphere	46.49	888.5	160.5	0.4152	0.3668	0
80	Group 1	Sphere	103.8	841.7	95.92	0.5382	0.6243	0
81	Group 1	Sphere	32.86	904.4	225.5	0.4194	0.09736	0
82	Group 1	Sphere	94.75	852.9	244.4	0.6827	0.5213	0
83	Group 1	Sphere	22.71	912.6	289	0.5675	0.5128	0
84	Group 1	Sphere	81.39	861.8	147.4	0.8467	0.2667	0
85	Group 1	Sphere	60.22	877.7	203.7	0.7465	0.706	0
86	Group 1	Sphere	80.62	862.4	226.3	0.6355	0.4438	0
87	Group 1	Sphere	97.2	851.3	181.1	0.557	0.4487	0
88	Group 1	Sphere	104.1	840.4	118	0.6408	0.7777	0
89	Group 1	Sphere	102.4	846.1	308.6	0.7689	0.5375	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
90	Group 1	Sphere	65.87	873.7	149.8	0.5737	0.4411	0
91	Group 1	Sphere	50.38	885.1	35.51	0.4446	0.4242	0
92	Group 1	Sphere	105.5	830.4	172.9	0.5158	0.5591	0
93	Group 1	Sphere	82.88	860.8	121.7	0.3809	0.3167	0
94	Group 1	Sphere	64.73	874.5	108.2	0.4514	0.3289	0
95	Group 1	Sphere	15.61	914.1	48.16	0.4856	0.6396	0
96	Group 1	Sphere	66.36	873.2	45.54	0.3255	0.3197	0
97	Group 1	Sphere	45.36	889.7	179.5	0.3228	0.6218	0
98	Group 1	Sphere	49.98	885.4	248.1	0.5516	0.4652	0
99	Group 1	Sphere	83.15	860.6	96.63	0.5417	0.6042	0
100	Group 1	Sphere	106.2	824.1	247.6	0.3829	0.6213	0
101	Group 1	Sphere	53.77	882.5	106.3	0.7435	0.532	0
102	Group 1	Sphere	17.3	913.8	271.3	0.5672	0.3057	0
103	Group 1	Sphere	91.17	855.2	178.7	0.3565	0.6146	0
104	Group 1	Sphere	70.83	869.6	232.9	0.4077	0.6488	0
105	Group 1	Sphere	41	894.7	244.9	0.3882	0.5428	0
106	Group 1	Sphere	105.4	831.4	264.8	0.5964	0.4078	0
107	Group 1	Sphere	102.5	845.6	265.5	0.5641	0.6587	0
108	Group 1	Sphere	106	825.6	328.9	0.6119	0.321	0
109	Group 1	Sphere	24	911.8	166.3	0.6924	0.4483	0
110	Group 1	Sphere	69.38	870.8	317.5	0.4955	0.6622	0
111	Group 1	Sphere	53.3	882.9	199.1	0.6249	0.4029	0
112	Group 1	Sphere	26.67	909.7	97.48	0.58	0.5949	0
113	Group 1	Sphere	104.6	837.6	315.5	0.4235	0.52	0
114	Group 1	Sphere	31.41	906.2	69.72	0.5456	0.4257	0
115	Group 1	Sphere	42.47	893.3	62.09	0.4423	0.5203	0
116	Group 1	Sphere	25.01	911.1	248.5	0.5454	0.4134	0
117	Group 1	Sphere	83.77	860.1	118.3	0.4872	0.3969	0
118	Group 1	Sphere	81.98	861.4	339.7	0.2023	0.6128	0
119	Group 1	Sphere	105.6	829.8	152.9	0.7225	0.2812	0
120	Group 1	Sphere	84.57	859.6	338	0.4038	0.6136	0
121	Group 1	Sphere	106.2	823.2	19.52	0.4793	0.4668	0
122	Group 1	Sphere	90.05	855.8	101.3	0.5653	0.5017	0
123	Group 1	Sphere	29.25	907.6	5.859	0.2784	0.4319	0
124	Group 1	Sphere	82.92	860.7	305.6	0.4091	0.5189	0
125	Group 1	Sphere	72.24	868.4	264.5	0.3676	0.6457	0
126	Group 1	Sphere	21.52	912.9	72.81	0.4997	0.4889	0
127	Group 1	Sphere	65.77	873.8	163.1	0.673	0.5103	0
128	Group 1	Sphere	35.33	900.1	337.3	0.4953	0.596	0
129	Group 1	Sphere	26.17	910.1	327.5	0.4315	0.4069	0
130	Group 1	Sphere	25.19	910.9	241.3	0.4751	0.7187	0
131	Group 1	Sphere	53.69	882.6	24.24	0.3449	0.7708	0
132	Group 1	Sphere	105.9	826.8	350.1	0.378	0.3809	0
133	Group 1	Sphere	48.97	886.1	236.1	0.2311	0.3358	0
134	Group 1	Sphere	94.62	853	206.8	0.3406	0.667	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
135	Group 1	Sphere	88.17	857.1	248	0.6708	0.5431	0
136	Group 1	Sphere	92.39	854.4	298.7	0.5906	0.5487	0
137	Group 1	Sphere	105	834.7	174.5	0.6456	0.4917	0
138	Group 1	Sphere	93.99	853.4	331.9	0.5098	0.7077	0
139	Group 1	Sphere	47.32	887.7	10.32	0.4609	0.6463	0
140	Group 1	Sphere	55.62	881.2	265.9	0.4594	0.4856	0
141	Group 1	Sphere	96.26	852	235.7	0.6287	0.6055	0
142	Group 1	Sphere	95.07	852.7	25.35	0.6148	0.421	0
143	Group 1	Sphere	101.9	846.7	20.17	0.4113	0.4605	0
144	Group 1	Sphere	59.61	878.1	341.1	0.7	0.5307	0
145	Group 1	Sphere	83.55	860.3	336	0.5123	0.5493	0
146	Group 1	Sphere	70.69	869.7	159.6	0.2362	0.4232	0
147	Group 1	Sphere	36.79	898.4	164.2	0.5069	0.5322	0
148	Group 1	Sphere	88.77	856.7	136.9	0.4245	0.5683	0
149	Group 1	Sphere	85.25	859.1	251.3	0.7206	0.1573	0
150	Group 1	Sphere	104.6	837.1	158.2	0.5294	0.6989	0
151	Group 1	Sphere	17.88	913.7	220.9	0.4687	0.611	0
152	Group 1	Sphere	104.2	839.7	46.51	0.5026	0.3961	0
153	Group 1	Sphere	105.4	831.5	112.3	0.5303	0.4851	0
154	Group 1	Sphere	70.14	870.2	27.14	0.6041	0.478	0
155	Group 1	Sphere	105.6	830.1	130.8	0.3886	0.5573	0
156	Group 1	Sphere	28.22	908.3	168.1	0.7062	0.4364	0
157	Group 1	Sphere	71.86	868.7	322.8	0.2927	0.3494	0
158	Group 1	Sphere	39.27	896.4	15.31	0.4845	0.521	0
159	Group 1	Sphere	48.11	886.9	127.2	0.273	0.2526	0
160	Group 1	Sphere	52.21	883.8	313.7	0.6809	0.6566	0
161	Group 1	Sphere	29.44	907.5	217.5	0.2933	0.422	0
162	Group 1	Sphere	64.34	874.8	232	0.3679	0.3132	0
163	Group 1	Sphere	53.48	882.8	340.1	0.5624	0.4528	0
164	Group 1	Sphere	55.96	880.9	179	0.3552	0.4061	0
165	Group 1	Sphere	62.44	876.2	58.01	0.34	0.3339	0
166	Group 1	Sphere	98.64	850	56.93	0.6743	0.1425	0
167	Group 1	Sphere	90	855.8	22.68	0.5033	0.3455	0
168	Group 1	Sphere	48.14	886.9	107.3	0.5772	0.5099	0
169	Group 1	Sphere	90.83	855.4	110.3	0.687	0.4556	0
170	Group 1	Sphere	92.73	854.2	357.3	0.5359	0.2629	0
171	Group 1	Sphere	97.35	851.1	300.7	0.3185	0.6519	0
172	Group 1	Sphere	104	840.6	278.4	0.4164	0.6838	0
173	Group 1	Sphere	102.9	844.8	52.87	0.4251	0.7346	0
174	Group 1	Sphere	48.28	886.8	38.47	0.425	0.5261	0
175	Group 1	Sphere	95.3	852.6	101	0.2587	0.6996	0
176	Group 1	Sphere	20.15	913.3	276.1	0.7725	0.4885	0
177	Group 1	Sphere	28.64	907.9	125.9	0.6102	0.5444	0
178	Group 1	Sphere	86.76	858.1	67.24	0.3747	0.5095	0
179	Group 1	Sphere	105.5	831.1	326.6	0.5551	0.3714	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
180	Group 1	Sphere	31.86	905.6	298.3	0.6011	0.4458	0
181	Group 1	Sphere	54.71	881.8	148.4	0.4452	0.6956	0
182	Group 1	Sphere	73.39	867.7	110.1	0.2736	0.3501	0
183	Group 1	Sphere	106.1	824.6	306.6	0.2437	0.3002	0
184	Group 1	Sphere	20.93	913.1	168.6	0.6442	0.3815	0
185	Group 1	Sphere	58.73	878.7	105.4	0.5106	0.3147	0
186	Group 1	Sphere	32.92	904.4	219.8	0.3311	0.3568	0
187	Group 1	Sphere	47.7	887.4	62.66	0.307	0.9186	0
188	Group 1	Sphere	35.14	900.7	29.68	0.2512	0.2633	0
189	Group 1	Sphere	37.75	897.6	37.89	0.4211	0.2745	0
190	Group 1	Sphere	76.56	865.4	128.8	0.5956	0.3655	0
191	Group 1	Sphere	34.99	901.1	173.9	0.3452	0.5459	0
192	Group 1	Sphere	47.46	887.6	245.3	0.3166	0.704	0
193	Group 1	Sphere	69.19	870.9	62.35	0.3491	0.4153	0
194	Group 1	Sphere	27.55	908.9	201.4	0.5109	0.3928	0
195	Group 1	Sphere	38.14	897.3	177.8	0.1864	0.5007	0
196	Group 1	Sphere	88.47	856.9	52.11	0.7067	0.463	0
197	Group 1	Sphere	90.93	855.3	122.1	0.6361	0.4005	0
198	Group 1	Sphere	42.33	893.5	155.2	0.8002	0.7903	0
199	Group 1	Sphere	62.63	876	68.13	0.6963	0.4354	0
200	Group 1	Sphere	34.84	901.6	8.527	0.3084	0.5812	0
201	Group 1	Sphere	106.3	822.2	99.11	0.3004	0.4872	0
202	Group 1	Sphere	104.6	837	116.6	0.5252	0.4643	0
203	Group 1	Sphere	106.4	821.7	123.1	0.8909	0.3891	0
204	Group 1	Sphere	105	834.9	67.4	0.4283	0.36	0
205	Group 1	Sphere	22.02	912.8	87.82	0.7107	0.6242	0
206	Group 1	Sphere	50.12	885.3	294.5	0.5734	0.573	0
207	Group 1	Sphere	102.6	845.3	104.2	0.4963	0.4373	0
208	Group 1	Sphere	21.68	912.9	193.4	0.3245	0.4884	0
209	Group 1	Sphere	100.5	848.2	5.295	0.6657	0.2888	0
210	Group 1	Sphere	100	848.7	350.5	0.795	0.6308	0
211	Group 1	Sphere	79.07	863.5	233.8	0.41	0.4893	0
212	Group 1	Sphere	35.22	900.4	297.5	0.7053	0.3735	0
213	Group 1	Sphere	106	825.8	47.34	0.7282	0.5488	0
214	Group 1	Sphere	85.84	858.7	11.28	0.8019	0.3533	0
215	Group 1	Sphere	42.13	893.6	137.3	0.5712	0.5585	0
216	Group 1	Sphere	56.74	880.4	256.5	0.6234	0.6225	0
217	Group 1	Sphere	91.74	854.8	325.6	0.4119	0.4821	0
218	Group 1	Sphere	103.4	843.4	80.44	0.4166	0.4785	0
219	Group 1	Sphere	76.64	865.3	117.3	0.4228	0.4273	0
220	Group 1	Sphere	87.08	857.8	236.5	0.5053	0.3017	0
221	Group 1	Sphere	37.71	897.7	164.6	0.6874	0.4469	0
222	Group 1	Sphere	78.77	863.8	8.926	0.5261	0.5224	0
223	Group 1	Sphere	22.5	912.7	119.4	0.3041	0.4037	0
224	Group 1	Sphere	42.88	893	263.2	0.3739	0.5372	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
225	Group 1	Sphere	54.47	882	36.47	0.5682	0.4679	0
226	Group 1	Sphere	105.1	834	83.66	0.5124	0.6078	0
227	Group 1	Sphere	73.76	867.4	48.27	0.5703	0.7464	0
228	Group 1	Sphere	40.92	894.8	158	0.5822	0.8064	0
229	Group 1	Sphere	31.21	906.4	293.1	0.5614	0.7053	0
230	Group 1	Sphere	20.67	913.2	81.18	0.5202	0.6969	0
231	Group 1	Sphere	92.18	854.5	226.7	0.7031	0.5936	0
232	Group 1	Sphere	60.1	877.8	270.3	0.581	0.4371	0
233	Group 1	Sphere	49.45	885.7	212.9	0.5884	0.5947	0
234	Group 1	Sphere	44.65	890.6	125.6	0.3087	0.4528	0
235	Group 1	Sphere	24.79	911.3	349.4	0.4766	0.504	0
236	Group 1	Sphere	48.75	886.3	230.2	0.3112	0.6261	0
237	Group 1	Sphere	33.9	903.3	93.7	0.3872	0.2611	0
238	Group 1	Sphere	63.33	875.5	64.39	0.3362	0.4765	0
239	Group 1	Sphere	61.64	876.7	218.7	0.7705	0.4086	0
240	Group 1	Sphere	81.61	861.7	228.2	0.5145	0.6592	0
241	Group 1	Sphere	96.77	851.6	243.1	0.6712	0.5927	0
242	Group 1	Sphere	94.46	853.1	167.4	0.5218	0.4707	0
243	Group 1	Sphere	43.44	892.1	0.4739	0.4715	0.3549	0
244	Group 1	Sphere	66.75	872.7	330.2	0.2902	0.4896	0
245	Group 1	Sphere	15.93	914	3.199	0.4917	0.6159	0
246	Group 1	Sphere	40.09	895.7	163.5	0.4875	0.3412	0
247	Group 1	Sphere	44.9	890.2	270.5	0.4758	0.5052	0
248	Group 1	Sphere	68.14	871.7	131.7	0.4682	0.615	0
249	Group 1	Sphere	48.5	886.5	205.6	0.6839	0.5075	0
250	Group 1	Sphere	22.41	912.7	202.7	0.329	0.4959	0
251	Group 1	Sphere	24.53	911.5	75.27	0.3541	0.4406	0
252	Group 1	Sphere	51.9	884.1	356.8	0.3504	0.3626	0
253	Group 1	Sphere	57.5	879.6	324.5	0.6136	0.7314	0
254	Group 1	Sphere	31.71	905.8	146.9	0.5686	0.3179	0
255	Group 1	Sphere	99.84	848.9	335.8	0.4961	0.5151	0
256	Group 1	Sphere	47.39	887.7	56.59	0.5188	0.5628	0
257	Group 1	Sphere	61.2	877	267.1	0.6919	0.5909	0
258	Group 1	Sphere	105.7	829.2	54.2	0.3011	0.8994	0
259	Group 1	Sphere	105.1	833.5	303.1	0.493	0.4663	0
260	Group 1	Sphere	16.27	914	332.5	0.4355	0.5977	0
261	Group 1	Sphere	15.52	914.1	192.6	0.5037	0.5347	0
262	Group 1	Sphere	103.9	841.6	143.5	0.6791	0.4415	0
263	Group 1	Sphere	96.97	851.5	328.3	0.4289	0.6166	0
264	Group 1	Sphere	55.5	881.3	117	0.4487	0.6709	0
265	Group 1	Sphere	35.74	899.4	175.1	0.4014	0.3386	0
266	Group 1	Sphere	106	826.1	308.1	0.6449	0.5424	0
267	Group 1	Sphere	77.96	864.4	141.6	0.5669	0.6047	0
268	Group 1	Sphere	104.1	840.1	133.6	0.6274	0.5507	0
269	Group 1	Sphere	17.13	913.8	292	0.3517	0.4235	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
270	Group 1	Sphere	106.1	824.3	351.9	0.5026	0.7643	0
271	Group 1	Sphere	105.9	826.4	95.09	0.2743	0.5003	0
272	Group 1	Sphere	100.8	847.9	257.3	0.6941	0.5045	0
273	Group 1	Sphere	105.1	834.1	195.7	0.4476	0.6417	0
274	Group 1	Sphere	94.23	853.2	85.88	0.6891	0.3749	0
275	Group 1	Sphere	69.84	870.4	1.111	0.3289	0.7447	0
276	Group 1	Sphere	100.6	848.1	134.1	0.663	0.409	0
277	Group 1	Sphere	59.26	878.3	12.7	0.5915	0.5766	0
278	Group 1	Sphere	73.78	867.4	52.35	0.4539	0.5878	0
279	Group 1	Sphere	61.91	876.5	277.6	0.5408	0.5839	0
280	Group 1	Sphere	36.39	898.8	273.5	0.2708	0.6038	0
281	Group 1	Sphere	74.81	866.7	154.7	0.6154	0.503	0
282	Group 1	Sphere	86.13	858.5	28.56	0.35	0.9263	0
283	Group 1	Sphere	106.3	823	322.2	0.4467	0.3092	0
284	Group 1	Sphere	89.58	856.1	324.1	0.5434	0.4301	0
285	Group 1	Sphere	21.08	913.1	230	0.786	0.4303	0
286	Group 1	Sphere	46.34	888.7	86.5	0.5217	0.5865	0
287	Group 1	Sphere	100.1	848.6	251.7	0.5344	0.3251	0
288	Group 1	Sphere	26.35	909.9	31.81	0.654	0.3395	0
289	Group 1	Sphere	26.03	910.2	318.2	0.3151	0.7431	0
290	Group 1	Sphere	43.02	892.8	61.11	0.414	0.6104	0
291	Group 1	Sphere	44.98	890.2	352.1	0.4693	0.2959	0
292	Group 1	Sphere	96.14	852	185.6	0.4547	0.7366	0
293	Group 1	Sphere	68.19	871.6	31.14	0.464	0.4016	0
294	Group 1	Sphere	41.72	893.9	167.7	0.8642	0.5576	0
295	Group 1	Sphere	95.6	852.4	278	0.3945	0.5175	0
296	Group 1	Sphere	36.13	899.1	20.75	0.1222	0.1674	0
297	Group 1	Sphere	100.4	848.4	221.9	0.1502	0.4335	0
298	Group 1	Sphere	105.7	829.3	223.4	0.5355	0.6895	0
299	Group 1	Sphere	28.1	908.4	108.8	0.4812	0.3609	0
300	Group 1	Sphere	38.91	896.7	316.2	0.5212	0.6269	0
301	Group 1	Sphere	72.76	868.1	176.9	0.6649	0.6656	0
302	Group 1	Sphere	103.9	841.2	33.81	0.5431	0.4177	0
303	Group 1	Sphere	102.4	845.8	12.27	0.6023	0.2798	0
304	Group 1	Sphere	63.83	875.2	272.2	0.4431	0.4537	0
305	Group 1	Sphere	105.9	826.7	197.7	0.4158	0.3885	0
306	Group 1	Sphere	43.72	891.7	65.76	0.4278	0.6353	0
307	Group 1	Sphere	103.5	843.2	14.14	0.3384	0.3553	0
308	Group 1	Sphere	23.35	912.2	250.2	0.5295	0.4451	0
309	Group 1	Sphere	25.72	910.4	169.3	0.3935	0.6089	0
310	Group 1	Sphere	63.62	875.3	334.5	0.659	0.5141	0
311	Group 1	Sphere	30.8	906.8	336.3	0.5777	0.7994	0
312	Group 1	Sphere	85.74	858.8	156.1	0.5185	0.6532	0
313	Group 1	Sphere	88.83	856.6	6.233	0.3182	0.7591	0
314	Group 1	Sphere	87.4	857.6	307.5	0.4619	0.2055	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
315	Group 1	Sphere	28.59	907.9	91.45	0.5442	0.4904	0
316	Group 1	Sphere	19.48	913.5	42.78	0.4654	0.4402	0
317	Group 1	Sphere	78.23	864.2	181.5	0.6083	0.4499	0
318	Group 1	Sphere	33.59	903.6	254.7	0.6686	0.6036	0
319	Group 1	Sphere	90.57	855.5	215.3	0.5278	0.473	0
320	Group 1	Sphere	89.23	856.4	183	0.5647	0.639	0
321	Group 1	Sphere	51.64	884.3	120.5	0.4617	0.3582	0
322	Group 1	Sphere	93.05	854	310.9	0.3926	0.8183	0
323	Group 1	Sphere	104.7	836.8	319.1	0.4048	0.4248	0
324	Group 1	Sphere	23.11	912.3	333.2	0.5075	0.4636	0
325	Group 1	Sphere	77.47	864.7	130	0.4888	0.4179	0
326	Group 1	Sphere	105.8	828.2	196.1	0.576	0.237	0
327	Group 1	Sphere	38.16	897.3	41.7	0.4269	0.4825	0
328	Group 1	Sphere	27.14	909.3	171.8	0.3801	0.4648	0
329	Group 1	Sphere	37.88	897.5	49.96	0.5438	0.4047	0
330	Group 1	Sphere	49.28	885.8	207.7	0.5045	0.6411	0
331	Group 1	Sphere	58.96	878.5	300.2	0.4785	0.5107	0
332	Group 1	Sphere	19.24	913.5	39.94	0.139	0.6191	0
333	Group 1	Sphere	45.52	889.5	17.39	0.2067	0.3376	0
334	Group 1	Sphere	93.84	853.5	92.44	0.5179	0.4807	0
335	Group 1	Sphere	106	825.5	42.36	0.3056	0.525	0
336	Group 1	Sphere	50.71	884.9	199.6	0.5496	0.5231	0
337	Group 1	Sphere	19.09	913.5	287.5	0.4823	0.662	0
338	Group 1	Sphere	105.9	827.1	301.4	0.6308	0.8886	0
339	Group 1	Sphere	105.5	830.8	109.6	0.5942	0.6651	0
340	Group 1	Sphere	104.4	838.7	220.7	0.5064	0.6576	0
341	Group 1	Sphere	76.79	865.2	123.3	0.3853	0.3074	0
342	Group 1	Sphere	54.96	881.6	181.2	0.6127	0.4418	0
343	Group 1	Sphere	27.82	908.7	313.9	0.4745	0.5819	0
344	Group 1	Sphere	88.44	856.9	50.9	0.3764	0.5303	0
345	Group 1	Sphere	40.67	895.1	286.8	0.5244	0.4862	0
346	Group 1	Sphere	35.29	900.2	318.7	0.5103	0.1732	0
347	Group 1	Sphere	93.33	853.8	295.6	0.7082	0.3832	0
348	Group 1	Sphere	56.57	880.5	146.2	0.514	0.3079	0
349	Group 1	Sphere	63.58	875.3	66.03	0.3966	0.4619	0
350	Group 1	Sphere	46.2	888.8	339.4	0.5376	0.3759	0
351	Group 1	Sphere	19.07	913.5	283.4	0.5348	0.6644	0
352	Group 1	Sphere	45.91	889.1	75.12	0.7638	0.4846	0
353	Group 1	Sphere	41.27	894.4	170.2	0.7831	0.2672	0
354	Group 1	Sphere	47.88	887.2	66.85	0.8327	0.5558	0
355	Group 1	Sphere	41.54	894.1	67.9	0.4818	0.6947	0
356	Group 1	Sphere	32.54	904.8	159.5	0.4994	0.4721	0
357	Group 1	Sphere	45.29	889.8	129.3	0.5536	0.6763	0
358	Group 1	Sphere	54.87	881.7	91.1	0.5285	0.4589	0
359	Group 1	Sphere	74.5	866.9	44.54	0.5015	0.5874	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
360	Group 1	Sphere	52.01	884	1.793	0.2544	0.5931	0
361	Group 1	Sphere	39.82	895.9	124.2	0.6049	0.3592	0
362	Group 1	Sphere	77.28	864.9	73.67	0.3513	0.7141	0
363	Group 1	Sphere	64.23	874.9	111.9	0.8568	0.4794	0
364	Group 1	Sphere	42.98	892.9	127.6	0.5415	0.5067	0
365	Group 1	Sphere	66.68	872.8	151.1	0.5722	0.4924	0
366	Group 1	Sphere	47.55	887.5	150.3	0.5835	0.2863	0
367	Group 1	Sphere	90.22	855.7	348	0.6078	0.4143	0
368	Group 1	Sphere	69.42	870.7	354.6	0.6903	0.3765	0
369	Group 1	Sphere	64.58	874.6	194.8	0.1471	0.3954	0
370	Group 1	Sphere	92.48	854.3	35.06	0.4392	0.4562	0
371	Group 1	Sphere	104.5	837.6	144.1	0.4201	0.2991	0
372	Group 1	Sphere	94.5	853.1	135.7	0.4343	0.8097	0
373	Group 1	Sphere	65.02	874.3	104.5	0.6399	0.6542	0
374	Group 1	Sphere	78.55	863.9	158.9	0.6694	0.4383	0
375	Group 1	Sphere	81.75	861.6	215.2	0.5931	0.2352	0
376	Group 1	Sphere	103.1	844.1	51.77	0.4188	0.4014	0
377	Group 1	Sphere	88.94	856.6	323.9	0.5038	0.5854	0
378	Group 1	Sphere	31	906.6	4.167	0.5846	0.6556	0
379	Group 1	Sphere	106.2	824	139.2	0.7777	0.4328	0
380	Group 1	Sphere	106.1	824.7	114.6	0.6241	0.5711	0
381	Group 1	Sphere	62.11	876.4	285.9	0.4983	0.392	0
382	Group 1	Sphere	104.8	835.6	303.6	0.5018	0.5146	0
383	Group 1	Sphere	77.36	864.8	54.93	0.5711	0.5411	0
384	Group 1	Sphere	79.18	863.5	295.3	0.3204	0.5163	0
385	Group 1	Sphere	102.3	846.2	283.8	0.7768	0.3705	0
386	Group 1	Sphere	36.88	898.3	140.8	0.2818	0.6903	0
387	Group 1	Sphere	98.89	849.8	348.8	0.2461	0.6375	0
388	Group 1	Sphere	101.7	846.9	263.7	0.5322	0.2466	0
389	Group 1	Sphere	80.2	862.7	18.2	0.7495	0.6346	0
390	Group 1	Sphere	29.73	907.4	184.1	0.6856	0.5237	0
391	Group 1	Sphere	72.57	868.2	43.33	0.4801	0.53	0
392	Group 1	Sphere	18.22	913.7	94.6	0.5423	0.4348	0
393	Group 1	Sphere	82.1	861.3	77.33	0.4016	0.5687	0
394	Group 1	Sphere	98.69	849.9	358.1	0.7106	0.7071	0
395	Group 1	Sphere	26.56	909.7	269.9	0.4675	0.394	0
396	Group 1	Sphere	67.07	872.4	21.5	0.3857	0.6842	0
397	Group 1	Sphere	59.01	878.5	140.7	0.4722	0.4925	0
398	Group 1	Sphere	17.52	913.8	259.3	0.4795	0.6876	0
399	Group 1	Sphere	85.95	858.6	228.9	0.652	0.6264	0
400	Group 1	Sphere	90.51	855.6	333.8	0.7253	0.4194	0
401	Group 1	Sphere	67.41	872.2	296.2	0.5166	0.6096	0
402	Group 1	Sphere	21.37	913	121.2	0.4929	0.469	0
403	Group 1	Sphere	53.12	883.1	79.74	0.5836	0.6369	0
404	Group 1	Sphere	45.65	889.3	342.4	0.2865	0.4776	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
405	Group 1	Sphere	28.77	907.8	100.7	0.5007	0.6326	0
406	Group 1	Sphere	105.7	828.7	45.34	0.527	0.531	0
407	Group 1	Sphere	101.8	846.7	285.1	0.573	0.4121	0
408	Group 1	Sphere	89.9	855.9	340.8	0.08092	0.3967	0
409	Group 1	Sphere	27.74	908.8	36.81	0.1996	0.7501	0
410	Group 1	Sphere	15.99	914	46.13	0.4949	0.5197	0
411	Group 1	Sphere	30.19	907.1	219.2	0.5853	0.5784	0
412	Group 1	Sphere	44.56	890.7	322.5	0.8376	0.3579	0
413	Group 1	Sphere	60.63	877.4	102.9	0.343	0.5135	0
414	Group 1	Sphere	80.9	862.2	142.9	0.3842	0.5903	0
415	Group 1	Sphere	44.1	891.2	246.9	0.6059	0.5797	0
416	Group 1	Sphere	101.1	847.6	188.2	0.5151	0.5647	0
417	Group 1	Sphere	26.32	909.9	40.72	0.3633	0.6631	0
418	Group 1	Sphere	98.25	850.4	185.3	0.2609	0.2981	0
419	Group 1	Sphere	105	834.3	292.7	0.3876	0.4961	0
420	Group 1	Sphere	25.47	910.7	103.4	0.5543	0.4595	0
421	Group 1	Sphere	82.55	861	57.48	0.4738	0.3799	0
422	Group 1	Sphere	105.8	827.7	267.5	0.3169	0.65	0
423	Group 1	Sphere	57.69	879.4	29.01	0.6325	0.3544	0
424	Group 1	Sphere	49.65	885.6	128	0.4835	0.2786	0
425	Group 1	Sphere	91.97	854.7	311.8	0.4668	0.5439	0
426	Group 1	Sphere	71.17	869.3	79.03	0.3393	0.3233	0
427	Group 1	Sphere	85.57	858.9	215.9	0.367	0.5613	0
428	Group 1	Sphere	35.34	900	291.3	0.7266	0.4114	0
429	Group 1	Sphere	58.41	878.9	262.6	0.5703	0.5093	0
430	Group 1	Sphere	43.96	891.4	39.37	0.3815	0.7175	0
431	Group 1	Sphere	106.3	822	76.76	0.2247	0.5842	0
432	Group 1	Sphere	32.77	904.5	227.6	0.6258	0.7231	0
433	Group 1	Sphere	63.43	875.4	189.6	0.2134	0.5971	0
434	Group 1	Sphere	87.46	857.6	98.34	0.444	0.4388	0
435	Group 1	Sphere	89.64	856.1	203.8	0.5364	0.2102	0
436	Group 1	Sphere	104	841.1	251	0.4684	0.4936	0
437	Group 1	Sphere	19.59	913.5	331.2	0.5661	0.4543	0
438	Group 1	Sphere	74.94	866.6	354.2	0.6217	0.3605	0
439	Group 1	Sphere	55.32	881.4	96.87	0.4728	0.4293	0
440	Group 1	Sphere	50.46	885	186.4	0.5898	0.5522	0
441	Group 1	Sphere	93.7	853.6	265.3	0.3536	0.4841	0
442	Group 1	Sphere	40.05	895.7	48.82	0.5471	0.4982	0
443	Group 1	Sphere	60	877.9	260.8	0.4415	0.5967	0
444	Group 1	Sphere	76.15	865.7	318.3	0.4274	0.2924	0
445	Group 1	Sphere	101.2	847.5	326.4	0.5371	0.3264	0
446	Group 1	Sphere	106.4	821.9	252.7	0.712	0.6732	0
447	Group 1	Sphere	18.46	913.6	229.3	0.595	0.5327	0
448	Group 1	Sphere	43.27	892.4	224.4	0.4625	0.4001	0
449	Group 1	Sphere	105.9	827.4	115.7	0.7017	0.8299	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
450	Group 1	Sphere	35.43	899.7	165.4	0.6319	0.5287	0
451	Group 1	Sphere	43.76	891.6	12.13	0.5019	0.3695	0
452	Group 1	Sphere	32.44	904.9	13.89	0.4895	0.2978	0
453	Group 1	Sphere	41.37	894.3	41.16	0.7573	0.536	0
454	Group 1	Sphere	27.06	909.3	58.36	0.3732	0.3352	0
455	Group 1	Sphere	84.74	859.5	279.6	0.6524	0.6139	0
456	Group 1	Sphere	87.83	857.3	134.6	0.7799	0.4667	0
457	Group 1	Sphere	43.19	892.6	343.9	0.7319	0.4756	0
458	Group 1	Sphere	25.38	910.8	211.4	0.7482	0.7028	0
459	Group 1	Sphere	79.8	863	271.6	0.539	0.6069	0
460	Group 1	Sphere	44.78	890.4	101.6	0.672	0.3642	0
461	Group 1	Sphere	87.71	857.4	304.5	0.501	0.5561	0
462	Group 1	Sphere	104.4	838.5	190.9	0.5727	0.49	0
463	Group 1	Sphere	33.21	904	85.65	0.2673	0.464	0
464	Group 1	Sphere	22.6	912.6	253.9	0.7915	0.2509	0
465	Group 1	Sphere	54.15	882.2	79.3	0.1957	0.3393	0
466	Group 1	Sphere	104.3	839.3	221.2	0.5582	0.5887	0
467	Group 1	Sphere	45.96	889	278.9	0.5908	0.466	0
468	Group 1	Sphere	70.59	869.8	188.4	0.6561	0.6807	0
469	Group 1	Sphere	105.3	832	55.64	0.346	0.3716	0
470	Group 1	Sphere	40.51	895.3	264.1	0.4185	0.458	0
471	Group 1	Sphere	28.98	907.7	90.85	0.4219	0.59	0
472	Group 1	Sphere	68.71	871.3	162.5	0.4263	0.483	0
473	Group 1	Sphere	19.66	913.4	166.5	0.2844	0.2151	0
474	Group 1	Sphere	67.36	872.2	351	0.5938	0.4568	0
475	Group 1	Sphere	98.78	849.9	232.5	0.3992	0.5778	0
476	Group 1	Sphere	99.14	849.5	209.6	0.5534	0.5502	0
477	Group 1	Sphere	18.35	913.7	222.7	0.4502	0.709	0
478	Group 1	Sphere	36.68	898.5	187.2	0.4992	0.4997	0
479	Group 1	Sphere	69.72	870.5	91.89	0.3941	0.5802	0
480	Group 1	Sphere	18.86	913.6	307.1	0.4329	0.2551	0
481	Group 1	Sphere	104.1	840.3	92.76	0.5521	0.4343	0
482	Group 1	Sphere	95.1	852.7	86.32	0.6348	0.703	0
483	Group 1	Sphere	75.39	866.3	308.4	0.8781	0.317	0
484	Group 1	Sphere	97.92	850.6	152.5	0.5473	0.4738	0
485	Group 1	Sphere	56.37	880.7	11.55	0.6816	0.7665	0
486	Group 1	Sphere	60.57	877.5	81.89	0.6055	0.5897	0
487	Group 1	Sphere	24.35	911.6	188.8	0.3717	0.625	0
488	Group 1	Sphere	97.56	851	165.2	0.1749	0.6021	0
489	Group 1	Sphere	34.07	903.1	310	0.5093	0.3889	0
490	Group 1	Sphere	42.78	893.1	302.2	0.4535	0.5127	0
491	Group 1	Sphere	104.1	840.4	42.99	0.4581	0.3185	0
492	Group 1	Sphere	105.8	828.1	355.1	0.7095	0.1884	0
493	Group 1	Sphere	18.77	913.6	269.6	0.6022	0.3153	0
494	Group 1	Sphere	87.04	857.9	230.4	0.7658	0.2281	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
495	Group 1	Sphere	104.5	838	153	0.4669	0.301	0
496	Group 1	Sphere	106.2	823.7	223.7	0.6429	0.5364	0
497	Group 1	Sphere	100.9	847.8	231.6	0.359	0.4394	0
498	Group 1	Sphere	105.6	830.1	131.8	0.5371	0.5519	0
499	Group 1	Sphere	89.75	856	240.2	0.5162	0.6493	0
500	Group 1	Sphere	105.2	833.3	262.3	0.5857	0.3306	0
501	Group 1	Sphere	75.73	866	124.9	0.6704	0.6183	0
502	Group 1	Sphere	67.88	871.8	177.4	0.5826	0.4774	0
503	Group 1	Sphere	89.1	856.5	37.39	0.4814	0.4762	0
504	Group 1	Sphere	16.76	913.9	208.2	0.4548	0.4952	0
505	Group 1	Sphere	86.66	858.1	271.9	0.4913	0.3874	0
506	Group 1	Sphere	64.42	874.7	105.7	0.8521	0.5464	0
507	Group 1	Sphere	105.8	828.5	338.2	0.4703	0.1998	0
508	Group 1	Sphere	101.3	847.3	258.2	0.5272	0.2603	0
509	Group 1	Sphere	98.49	850.1	288.6	0.295	0.3649	0
510	Group 1	Sphere	106.2	823.6	275.1	0.492	0.3745	0
511	Group 1	Sphere	58.34	878.9	307.3	0.337	0.5964	0
512	Group 1	Sphere	80.33	862.6	147.8	0.6466	0.3938	0
513	Group 1	Sphere	94.93	852.8	28.07	0.5397	0.5402	0
514	Group 1	Sphere	36.98	898.2	272.8	0.4904	0.3622	0
515	Group 1	Sphere	102	846.5	164.1	0.5764	0.6081	0
516	Group 1	Sphere	18.59	913.6	69.12	0.5449	0.6959	0
517	Group 1	Sphere	86.6	858.2	206.3	0.4286	0.6774	0
518	Group 1	Sphere	63.01	875.7	352.9	0.4175	0.5623	0
519	Group 1	Sphere	20.27	913.3	74.65	0.3416	0.1357	0
520	Group 1	Sphere	52.05	884	198.5	0.168	0.5759	0
521	Group 1	Sphere	84.24	859.8	358.8	0.3297	0.3296	0
522	Group 1	Sphere	74.78	866.7	325.9	0.7154	0.4039	0
523	Group 1	Sphere	105.7	829.4	35.73	0.4123	0.3524	0
524	Group 1	Sphere	73.23	867.8	353.5	0.5972	0.6115	0
525	Group 1	Sphere	105.6	829.6	158.5	0.4828	0.4753	0
526	Group 1	Sphere	43.34	892.3	276.7	0.4508	0.4267	0
527	Group 1	Sphere	61.02	877.2	55.92	0.6107	0.6439	0
528	Group 1	Sphere	43.52	892	59.32	0.5334	0.486	0
529	Group 1	Sphere	57.18	879.9	7.254	0.6065	0.4201	0
530	Group 1	Sphere	62.23	876.3	327.7	0.6773	0.288	0
531	Group 1	Sphere	72.03	868.6	49.68	0.5928	0.5278	0
532	Group 1	Sphere	34.26	902.8	141.2	0.4069	0.5169	0
533	Group 1	Sphere	71.39	869.1	250.9	0.7167	0.4698	0
534	Group 1	Sphere	66.27	873.3	284.2	0.5969	0.5751	0
535	Group 1	Sphere	32.28	905.1	45.83	0.1794	0.6011	0
536	Group 1	Sphere	25.69	910.5	22.76	0.7133	0.3476	0
537	Group 1	Sphere	42.63	893.2	245.7	0.1911	0.6331	0
538	Group 1	Sphere	105	834.5	74.09	0.4968	0.6164	0
539	Group 1	Sphere	99.2	849.5	311.7	0.3959	0.7738	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
540	Group 1	Sphere	33.29	904	10.82	0.4887	0.5671	0
541	Group 1	Sphere	66.18	873.4	222.9	0.6227	0.4847	0
542	Group 1	Sphere	50.88	884.8	254.3	0.6986	0.6345	0
543	Group 1	Sphere	40.55	895.2	200.4	0.2225	0.48	0
544	Group 1	Sphere	37.59	897.8	303.4	0.4125	0.4333	0
545	Group 1	Sphere	47.18	887.9	126.8	0.517	0.4325	0
546	Group 1	Sphere	34.83	901.6	168.2	0.6637	0.5026	0
547	Group 1	Sphere	99.53	849.2	352.6	0.5509	0.6446	0
548	Group 1	Sphere	39.37	896.3	87.09	0.3773	0.6298	0
549	Group 1	Sphere	38.59	896.9	115.5	0.2906	0.218	0
550	Group 1	Sphere	51.02	884.7	348.4	0.558	0.08435	0
551	Group 1	Sphere	103.1	844.2	327	0.701	0.6473	0
552	Group 1	Sphere	67.82	871.9	205.1	0.5084	0.4434	0
553	Group 1	Sphere	105.2	833.1	288.1	0.6175	0.3896	0
554	Group 1	Sphere	37.22	898.1	133.2	0.3697	0.8163	0
555	Group 1	Sphere	93.19	853.9	54.39	0.5922	0.5349	0
556	Group 1	Sphere	33.52	903.7	300.5	0.3846	0.4552	0
557	Group 1	Sphere	42.6	893.2	309.7	0.2873	0.5242	0
558	Group 1	Sphere	58.07	879.1	98.18	0.5328	0.5281	0
559	Group 1	Sphere	43.42	892.2	100.1	0.6036	0.5676	0
560	Group 1	Sphere	105.8	828	125	0.8204	0.5073	0
561	Group 1	Sphere	38.56	897	202.5	0.5635	0.3684	0
562	Group 1	Sphere	86.89	858	301.9	0.5049	0.06974	0
563	Group 1	Sphere	49.58	885.6	135.7	0.3232	0.6338	0
564	Group 1	Sphere	91.25	855.1	136.6	0.6569	0.4379	0
565	Group 1	Sphere	97.13	851.3	154.9	0.72	0.387	0
566	Group 1	Sphere	39.11	896.5	83.46	0.541	0.1662	0
567	Group 1	Sphere	99.45	849.2	291.2	0.375	0.5183	0
568	Group 1	Sphere	68.33	871.5	95.68	0.4419	0.579	0
569	Group 1	Sphere	102.3	846.2	214.8	0.6842	0.2226	0
570	Group 1	Sphere	16.15	914	194.7	0.6265	0.7398	0
571	Group 1	Sphere	56.26	880.7	246.1	0.4565	0.1788	0
572	Group 1	Sphere	27.64	908.8	165.6	0.8709	0.4534	0
573	Group 1	Sphere	51.48	884.4	189.8	0.4341	0.2647	0
574	Group 1	Sphere	40.37	895.4	30.58	0.5095	0.3981	0
575	Group 1	Sphere	78.07	864.3	20.95	0.3606	0.3244	0
576	Group 1	Sphere	40.25	895.6	102.5	0.4001	0.7336	0
577	Group 1	Sphere	17.78	913.7	157.6	0.3123	0.4099	0
578	Group 1	Sphere	45.13	890	280.5	0.4789	0.3102	0
579	Group 1	Sphere	65.3	874.1	148.3	0.3063	0.5446	0
580	Group 1	Sphere	85.34	859	316.7	0.7186	0.4307	0
581	Group 1	Sphere	51.5	884.4	214.1	0.3691	0.5582	0
582	Group 1	Sphere	69.74	870.5	20.14	0.4296	0.5088	0
583	Group 1	Sphere	105.2	832.9	190.6	0.4944	0.34	0
584	Group 1	Sphere	95.81	852.2	197.1	0.5866	0.6679	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
585	Group 1	Sphere	26	910.2	2.321	0.7411	0.4834	0
586	Group 1	Sphere	20.55	913.2	238.2	0.4542	0.5832	0
587	Group 1	Sphere	71.61	868.9	63.04	0.6546	0.3989	0
588	Group 1	Sphere	71.74	868.8	39.16	0.6131	0.5035	0
589	Group 1	Sphere	105.1	833.6	175.6	0.4435	0.6172	0
590	Group 1	Sphere	33.76	903.5	313.6	0.9109	0.5652	0
591	Group 1	Sphere	57.09	880	9.24	0.1582	0.4545	0
592	Group 1	Sphere	26.53	909.8	234.3	0.3971	0.4812	0
593	Group 1	Sphere	75.67	866	283.3	0.5753	0.5694	0
594	Group 1	Sphere	46.73	888.3	145.9	0.4782	0.2763	0
595	Group 1	Sphere	53.35	882.9	134.8	0.3137	0.4445	0
596	Group 1	Sphere	104.3	839	17.8	0.4553	0.2495	0
597	Group 1	Sphere	70.45	869.9	9.463	0.3572	0.3984	0
598	Group 1	Sphere	82.43	861.1	77.66	0.6408	0.5187	0
599	Group 1	Sphere	61.99	876.5	84.71	0.3328	0.4466	0
600	Group 1	Sphere	60.43	877.6	51.15	0.5342	0.379	0
601	Group 1	Sphere	36.06	899.2	312.1	0.3584	0.5534	0
602	Group 1	Sphere	105.3	832.3	106.9	0.5988	0.4316	0
603	Group 1	Sphere	43.12	892.7	323.2	0.3711	0.2832	0
604	Group 1	Sphere	77.87	864.4	351.4	0.4469	0.542	0
605	Group 1	Sphere	100.7	848	102	0.7029	0.6856	0
606	Group 1	Sphere	35.48	899.6	5.732	0.1983	0.6365	0
607	Group 1	Sphere	53.94	882.4	90.34	0.4224	0.3789	0
608	Group 1	Sphere	26.77	909.6	84.99	0.797	0.7953	0
609	Group 1	Sphere	82.57	861	191.6	0.6094	0.6426	0
610	Group 1	Sphere	73.44	867.6	246.6	0.5355	0.4751	0
611	Group 1	Sphere	41.57	894.1	294.4	0.4605	0.5408	0
612	Group 1	Sphere	106	825.9	82.15	0.3349	0.4521	0
613	Group 1	Sphere	75.97	865.8	130.6	0.5222	0.2694	0
614	Group 1	Sphere	58.78	878.7	178.5	0.7335	0.3225	0
615	Group 1	Sphere	23.18	912.3	200	0.3251	0.3037	0
616	Group 1	Sphere	16.55	913.9	124.2	0.5785	0.8454	0
617	Group 1	Sphere	67	872.4	138	0.6666	0.6855	0
618	Group 1	Sphere	61.13	877.1	345.5	0.6848	0.7909	0
619	Group 1	Sphere	44.06	891.3	107.8	0.5129	0.3528	0
620	Group 1	Sphere	104.5	838.2	359.4	0.5566	0.3587	0
621	Group 1	Sphere	103.9	841.4	202.1	0.4742	0.5654	0
622	Group 1	Sphere	105.8	827.6	355.6	0.5957	0.4964	0
623	Group 1	Sphere	83.02	860.7	305.9	0.4642	0.6604	0
624	Group 1	Sphere	70.24	870.1	196.3	0.8214	0.5264	0
625	Group 1	Sphere	29.63	907.4	297.1	0.3683	0.5992	0
626	Group 1	Sphere	32.13	905.3	338.5	0.4087	0.4222	0
627	Group 1	Sphere	37.13	898.1	337	0.4753	0.7564	0
628	Group 1	Sphere	46.1	888.9	36.13	0.6508	0.4107	0
629	Group 1	Sphere	104.8	835.8	30.72	0.3629	0.5618	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
630	Group 1	Sphere	95.72	852.3	83.04	0.3119	0.1959	0
631	Group 1	Sphere	36.59	898.6	276.9	0.5502	0.5395	0
632	Group 1	Sphere	28.18	908.3	205.5	0.3045	0.6435	0
633	Group 1	Sphere	58.51	878.8	89.34	0.5425	0.2952	0
634	Group 1	Sphere	97.24	851.2	279	0.2627	0.2342	0
635	Group 1	Sphere	104.8	836.2	136.4	0.49	0.5257	0
636	Group 1	Sphere	78.91	863.7	209.9	0.424	0.4674	0
637	Group 1	Sphere	89.42	856.2	31.36	0.4947	0.3426	0
638	Group 1	Sphere	30.69	906.9	257.5	0.4464	0.2262	0
639	Group 1	Sphere	105.4	831.7	299.4	0.2992	0.5056	0
640	Group 1	Sphere	66.52	873	25.74	0.4065	0.4986	0
641	Group 1	Sphere	106.3	822.8	10.53	0.4933	0.6572	0
642	Group 1	Sphere	104.9	835.5	256.2	0.6339	0.5352	0
643	Group 1	Sphere	24.24	911.7	193	0.8092	0.5415	0
644	Group 1	Sphere	40.89	894.8	142.2	0.5494	0.7321	0
645	Group 1	Sphere	104.2	839.9	269	0.5399	0.7297	0
646	Group 1	Sphere	36.57	898.7	157.3	0.2569	0.6526	0
647	Group 1	Sphere	83.28	860.5	187.7	0.5082	0.5227	0
648	Group 1	Sphere	95.32	852.5	274.9	0.4602	0.3561	0
649	Group 1	Sphere	84.1	859.9	330	0.7346	0.434	0
650	Group 1	Sphere	75.18	866.4	23.58	0.3557	0.348	0
651	Group 1	Sphere	105.3	832.6	104.8	0.4651	0.6402	0
652	Group 1	Sphere	85.08	859.2	93.55	0.2107	0.3842	0
653	Group 1	Sphere	105.4	831.2	347.7	0.3133	0.417	0
654	Group 1	Sphere	41.89	893.8	37.74	0.3891	0.87	0
655	Group 1	Sphere	16.45	914	273.8	0.4979	0.6294	0
656	Group 1	Sphere	102.9	844.6	6.544	0.4299	0.551	0
657	Group 1	Sphere	44.17	891.1	59.98	0.3267	0.3333	0
658	Group 1	Sphere	44.69	890.5	238.3	0.3924	0.5338	0
659	Group 1	Sphere	79.9	862.9	281.4	0.5279	0.3948	0
660	Group 1	Sphere	73.63	867.5	147.2	0.4768	0.4607	0
661	Group 1	Sphere	50.66	884.9	358.2	0.3468	0.557	0
662	Group 1	Sphere	104.7	836.6	257	0.5877	0.554	0
663	Group 1	Sphere	105.9	826.6	14.62	0.2789	0.4119	0
664	Group 1	Sphere	69.03	871	346.2	0.452	0.4126	0
665	Group 1	Sphere	87.64	857.5	70.15	0.7316	0.3824	0
666	Group 1	Sphere	35.62	899.5	68.48	0.2355	0.5703	0
667	Group 1	Sphere	105.3	832.1	338.8	0.5184	0.4519	0
668	Group 1	Sphere	74.64	866.8	169.1	0.432	0.4713	0
669	Group 1	Sphere	105.9	826.9	3.686	0.4179	0.7393	0
670	Group 1	Sphere	31.96	905.5	9.997	0.4697	0.4815	0
671	Group 1	Sphere	104.2	839.6	115	0.5089	0.257	0
672	Group 1	Sphere	45.07	890	72.58	0.8111	0.5851	0
673	Group 1	Sphere	97.67	850.9	342.8	0.3986	0.6782	0
674	Group 1	Sphere	98.98	849.7	213.8	0.5236	0.7795	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
675	Group 1	Sphere	104.7	836.9	331.8	0.3486	0.5357	0
676	Group 1	Sphere	104.4	838.3	40.05	0.3705	0.853	0
677	Group 1	Sphere	91.86	854.7	64.7	0.4977	0.5384	0
678	Group 1	Sphere	41.14	894.6	210.8	0.4147	0.8517	0
679	Group 1	Sphere	106.3	822.7	359	0.2592	0.5892	0
680	Group 1	Sphere	30.34	907.1	30.1	0.7276	0.4767	0
681	Group 1	Sphere	106.1	824.6	299.6	0.423	0.5825	0
682	Group 1	Sphere	79.73	863.1	200.9	0.5118	0.7627	0
683	Group 1	Sphere	41.77	893.9	53.13	0.488	0.6455	0
684	Group 1	Sphere	65.4	874	186	0.6291	0.5681	0
685	Group 1	Sphere	103.3	843.5	70.48	0.7177	0.3104	0
686	Group 1	Sphere	34.9	901.4	333.4	0.5003	0.3514	0
687	Group 1	Sphere	93.24	853.9	26.5	0.4055	0.592	0
688	Group 1	Sphere	36.27	899	287.2	0.4835	0.4441	0
689	Group 1	Sphere	92.12	854.6	275.4	0.6436	0.5665	0
690	Group 1	Sphere	97.47	851	87.24	0.3796	0.6421	0
691	Group 1	Sphere	18.04	913.7	330.9	0.4021	0.4624	0
692	Group 1	Sphere	104.2	839.8	259.9	0.0591	0.1621	0
693	Group 1	Sphere	31.16	906.4	151.8	0.6682	0.6064	0
694	Group 1	Sphere	51.13	884.6	229.6	0.3602	0.7482	0
695	Group 1	Sphere	104.4	838.9	221.6	0.5691	0.369	0
696	Group 1	Sphere	25.9	910.3	237.6	0.3865	0.4023	0
697	Group 1	Sphere	28.38	908.1	142.6	0.7538	0.5796	0
698	Group 1	Sphere	61.78	876.6	219.4	0.4404	0.4464	0
699	Group 1	Sphere	34.95	901.3	76.58	0.569	0.5064	0
700	Group 1	Sphere	88.03	857.2	258.5	0.6478	0.4065	0
701	Group 1	Sphere	56.42	880.6	89.03	0.473	0.5728	0
702	Group 1	Sphere	106	825.3	227.2	0.3621	0.4455	0
703	Group 1	Sphere	60.76	877.3	208.7	0.5757	0.4572	0
704	Group 1	Sphere	42.21	893.6	156.3	0.4083	0.5367	0
705	Group 1	Sphere	62.74	875.9	8.046	0.5919	0.4837	0
706	Group 1	Sphere	69.6	870.6	132.8	0.2394	0.5453	0
707	Group 1	Sphere	105	834.3	7.572	0.4839	0.4104	0
708	Group 1	Sphere	103.7	842.4	139.6	0.2765	0.5912	0
709	Group 1	Sphere	75.53	866.1	182.4	0.5488	0.5014	0
710	Group 1	Sphere	67.69	872	209.2	0.7138	0.4356	0
711	Group 1	Sphere	57.83	879.3	260.1	0.6582	0.5641	0
712	Group 1	Sphere	41.23	894.5	33.27	0.4804	0.821	0
713	Group 1	Sphere	86.4	858.3	107.2	0.6549	0.5498	0
714	Group 1	Sphere	101.5	847.1	237.1	0.6779	0.6276	0
715	Group 1	Sphere	47.05	888	57.7	0.697	0.7965	0
716	Group 1	Sphere	105.7	829	119.5	0.5563	0.5008	0
717	Group 1	Sphere	43.88	891.5	22.09	0.4627	0.564	0
718	Group 1	Sphere	91.36	855.1	34.33	0.6068	0.5193	0
719	Group 1	Sphere	47.78	887.3	239.8	0.6671	0.7545	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
720	Group 1	Sphere	50.29	885.1	336.8	0.5984	0.3415	0
721	Group 1	Sphere	65.08	874.3	176.1	0.2452	0.6506	0
722	Group 1	Sphere	73.19	867.8	6.954	0.4367	0.5606	0
723	Group 1	Sphere	64.63	874.6	239.7	0.6007	0.5715	0
724	Group 1	Sphere	15.23	914.2	53.8	0.5481	0.598	0
725	Group 1	Sphere	40.81	894.9	314.6	0.6153	0.648	0
726	Group 1	Sphere	104.5	837.9	93.11	0.7396	0.8631	0
727	Group 1	Sphere	38.44	897	210.6	0.2669	0.5086	0
728	Group 1	Sphere	78.45	864	112.8	0.3353	0.3724	0
729	Group 1	Sphere	23.44	912.1	304.8	0.5306	0.431	0
730	Group 1	Sphere	78.66	863.8	29.26	0.3904	0.1276	0
731	Group 1	Sphere	103.5	843.1	66.4	0.3018	0.436	0
732	Group 1	Sphere	99.33	849.3	200.6	0.3098	0.303	0
733	Group 1	Sphere	104.9	835.2	329.3	0.6254	0.3996	0
734	Group 1	Sphere	103.8	841.8	160	0.4136	0.4268	0
735	Group 1	Sphere	37.32	898	252.9	0.6975	0.4566	0
736	Group 1	Sphere	78.27	864.1	201.9	0.5205	0.4869	0
737	Group 1	Sphere	105.6	829.9	59.58	0.3424	0.2825	0
738	Group 1	Sphere	33.95	903.2	321.2	0.5529	0.3903	0
739	Group 1	Sphere	93.56	853.7	114.3	0.3613	0.443	0
740	Group 1	Sphere	103.8	842	214.6	0.4495	0.7758	0
741	Group 1	Sphere	106.1	825	319.8	0.3834	0.3484	0
742	Group 1	Sphere	52.64	883.5	71.74	0.3213	0.5293	0
743	Group 1	Sphere	24.58	911.5	121.8	0.4453	0.701	0
744	Group 1	Sphere	21.17	913	13.07	0.1144	0.4937	0
745	Group 1	Sphere	105	834.6	180	0.2498	0.6924	0
746	Group 1	Sphere	75.87	865.9	172.1	0.3933	0.8244	0
747	Group 1	Sphere	43.59	891.9	285.2	0.577	0.3296	0
748	Group 1	Sphere	54.32	882.1	274	0.4326	0.6025	0
749	Group 1	Sphere	79.47	863.3	239.1	0.4106	0.613	0
750	Group 1	Sphere	99.97	848.7	281.8	0.3731	0.4263	0
751	Group 1	Sphere	30.48	907	154.3	0.4847	0.3855	0
752	Group 1	Sphere	103.7	842.6	356	0.6314	0.5068	0
753	Group 1	Sphere	105.1	833.9	151.4	0.3377	0.449	0
754	Group 1	Sphere	20.36	913.3	212.3	0.8168	0.5989	0
755	Group 1	Sphere	34.41	902.5	173.2	0.4865	0.5022	0
756	Group 1	Sphere	52.74	883.4	116	0.5809	0.6185	0
757	Group 1	Sphere	82.32	861.2	129.2	0.5249	0.4908	0
758	Group 1	Sphere	74.37	867	302.5	0.5195	0.5809	0
759	Group 1	Sphere	48.61	886.4	213.2	0.5803	0.5567	0
760	Group 1	Sphere	56	880.9	0.9068	0.476	0.5059	0
761	Group 1	Sphere	22.9	912.4	224.3	0.3975	0.4594	0
762	Group 1	Sphere	104.6	837.3	34.67	0.5575	0.6236	0
763	Group 1	Sphere	16.84	913.9	234.6	0.5337	0.3202	0
764	Group 1	Sphere	81.12	862.1	176.7	0.5468	0.4993	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
765	Group 1	Sphere	106.3	822.3	47.57	0.4558	0.2701	0
766	Group 1	Sphere	65.53	873.9	285.8	0.5611	0.4736	0
767	Group 1	Sphere	73.98	867.3	119.2	0.6595	0.3462	0
768	Group 1	Sphere	19.8	913.4	128.2	0.2884	0.5465	0
769	Group 1	Sphere	51.19	884.6	279.9	0.399	0.72	0
770	Group 1	Sphere	49.31	885.8	347.1	0.2491	0.5514	0
771	Group 1	Sphere	38.78	896.8	162.3	0.6071	0.4725	0
772	Group 1	Sphere	29.14	907.6	357.5	0.6616	0.8018	0
773	Group 1	Sphere	27.99	908.5	187	0.6375	0.4188	0
774	Group 1	Sphere	103	844.3	297.9	0.2158	0.4873	0
775	Group 1	Sphere	83.45	860.4	2.521	0.4908	0.1803	0
776	Group 1	Sphere	96.56	851.8	138.5	0.5267	0.4156	0
777	Group 1	Sphere	97.81	850.7	335	0.4028	0.5636	0
778	Group 1	Sphere	34.33	902.7	277.4	0.6098	0.5996	0
779	Group 1	Sphere	104.3	839.5	203.3	0.6473	0.586	0
780	Group 1	Sphere	32.99	904.3	194	0.5718	0.5754	0
781	Group 1	Sphere	46.38	888.6	90.67	0.6363	0.5593	0
782	Group 1	Sphere	101.7	846.9	216.2	0.6417	0.6003	0
783	Group 1	Sphere	24.98	911.1	16.05	0.4525	0.7471	0
784	Group 1	Sphere	62.87	875.8	16.49	0.4129	0.5118	0
785	Group 1	Sphere	71.25	869.2	94.15	0.3272	0.4914	0
786	Group 1	Sphere	30.92	906.7	196.7	0.3577	0.2579	0
787	Group 1	Sphere	62.36	876.2	41.88	0.7619	0.4163	0
788	Group 1	Sphere	35.4	899.8	60.47	0.2204	0.3802	0
789	Group 1	Sphere	76.31	865.6	253.3	0.5816	0.2742	0
790	Group 1	Sphere	104.7	836.4	342	0.4305	0.5475	0
791	Group 1	Sphere	77.69	864.6	194.1	0.2342	0.516	0
792	Group 1	Sphere	90.3	855.7	83.9	0.4777	0.3364	0
793	Group 1	Sphere	29.85	907.3	61.3	0.6622	0.5469	0
794	Group 1	Sphere	68.53	871.4	234.8	0.5602	0.5433	0
795	Group 1	Sphere	101	847.7	14.95	0.5898	0.722	0
796	Group 1	Sphere	81.13	862	109.1	0.5114	0.3753	0
797	Group 1	Sphere	63.05	875.7	320.9	0.6908	0.5147	0
798	Group 1	Sphere	104.9	835.4	27.41	0.4398	0.6798	0
799	Group 1	Sphere	80.76	862.3	346.6	0.7439	0.5166	0
800	Group 1	Sphere	45.77	889.2	139.9	0.5514	0.4932	0
801	Group 1	Sphere	24.68	911.4	108.6	0.5662	0.7104	0
802	Group 1	Sphere	105.8	828.4	64.87	0.5696	0.5255	0
803	Group 1	Sphere	84.31	859.8	266.5	0.435	0.4423	0
804	Group 1	Sphere	101.5	847.1	225.8	0.3821	0.6596	0
805	Group 1	Sphere	33.66	903.6	228.2	0.5544	0.4183	0
806	Group 1	Sphere	46.79	888.3	281.1	0.2833	0.56	0
807	Group 1	Sphere	52.93	883.2	313.2	0.4389	0.588	0
808	Group 1	Sphere	82.79	860.8	32.35	0.3596	0.4149	0
809	Group 1	Sphere	40.35	895.4	132.2	0.4884	0.555	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
810	Group 1	Sphere	74.34	867	222.3	0.4196	0.628	0
811	Group 1	Sphere	70.51	869.8	33.07	0.4354	0.2479	0
812	Group 1	Sphere	102.1	846.4	118.5	0.4807	0.7237	0
813	Group 1	Sphere	106.1	824.9	316.1	0.463	0.7132	0
814	Group 1	Sphere	35.87	899.3	4.768	0.5058	0.4511	0
815	Group 1	Sphere	58.22	879	89.89	0.7645	0.2725	0
816	Group 1	Sphere	26.92	909.4	18.61	0.2831	0.592	0
817	Group 1	Sphere	45.47	889.6	47.04	0.6483	0.5109	0
818	Group 1	Sphere	29.52	907.5	186.8	0.365	0.8382	0
819	Group 1	Sphere	98.01	850.6	23.87	0.391	0.2442	0
820	Group 1	Sphere	53.09	883.1	276.3	0.3392	0.7154	0
821	Group 1	Sphere	35.06	900.9	155.7	0.2987	0.5388	0
822	Group 1	Sphere	60.23	877.7	171	0.3276	0.5286	0
823	Group 1	Sphere	93.66	853.6	82.46	0.09713	0.3139	0
824	Group 1	Sphere	70.34	870	286.6	0.5829	0.4216	0
825	Group 1	Sphere	104.4	838.6	249.6	0.4479	0.6548	0
826	Group 1	Sphere	34.56	902.2	343.6	0.4266	0.3932	0
827	Group 1	Sphere	47.96	887.1	61.69	0.2802	0.729	0
828	Group 1	Sphere	104.8	835.8	32.73	0.2915	0.5531	0
829	Group 1	Sphere	23.8	911.9	311.2	0.4048	0.5525	0
830	Group 1	Sphere	103.7	842.3	255.1	0.5479	0.455	0
831	Group 1	Sphere	31.48	906.1	58.74	0.6494	0.6383	0
832	Group 1	Sphere	28.88	907.8	184.6	0.5783	0.3775	0
833	Group 1	Sphere	100.4	848.3	195.2	0.5157	0.4476	0
834	Group 1	Sphere	50.03	885.3	289.8	0.5788	0.2417	0
835	Group 1	Sphere	103.2	843.9	81.71	0.4859	0.4165	0
836	Group 1	Sphere	86.38	858.3	306.3	0.5062	0.8118	0
837	Group 1	Sphere	59.11	878.4	198	0.2642	0.4576	0
838	Group 1	Sphere	34.13	903	328.6	0.4111	0.488	0
839	Group 1	Sphere	64.05	875	207.8	0.738	0.7276	0
840	Group 1	Sphere	35.1	900.8	353.4	0.68	0.3681	0
841	Group 1	Sphere	106.2	823.8	113.9	0.2235	0.5939	0
842	Group 1	Sphere	54.03	882.3	161.1	0.3961	0.4705	0
843	Group 1	Sphere	99.63	849.1	163.2	0.3788	0.4789	0
844	Group 1	Sphere	55.25	881.4	266.3	0.6245	0.4094	0
845	Group 1	Sphere	39.93	895.8	132.9	0.4312	0.2134	0
846	Group 1	Sphere	76.99	865.1	249.4	0.6304	0.385	0
847	Group 1	Sphere	68.03	871.7	349.9	0.5149	0.6665	0
848	Group 1	Sphere	104.9	835	255.7	0.449	0.297	0
849	Group 1	Sphere	15.29	914.1	261.6	0.8312	0.6258	0
850	Group 1	Sphere	87.97	857.2	74.23	0.39	0.725	0
851	Group 1	Sphere	102.8	844.8	144.5	0.5743	0.3328	0
852	Group 1	Sphere	88.24	857.1	154	0.466	0.607	0
853	Group 1	Sphere	73.02	867.9	305.1	0.382	0.6823	0
854	Group 1	Sphere	21.86	912.8	120.1	0.6198	0.6319	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
855	Group 1	Sphere	49.11	885.9	77.84	0.4378	0.1073	0
856	Group 1	Sphere	105.2	832.7	216.5	0.6001	0.6094	0
857	Group 1	Sphere	102.1	846.5	13.48	0.4702	0.4502	0
858	Group 1	Sphere	106.2	823.3	235.3	0.7734	0.1949	0
859	Group 1	Sphere	68.43	871.5	24.6	0.7388	0.4728	0
860	Group 1	Sphere	103	844.4	152.1	0.6735	0.4951	0
861	Group 1	Sphere	57.63	879.5	325.4	0.5385	0.3313	0
862	Group 1	Sphere	39.03	896.6	123.8	0.4371	0.6196	0
863	Group 1	Sphere	63.19	875.6	44.8	0.7213	0.2393	0
864	Group 1	Sphere	79.43	863.3	211.2	0.6221	0.6919	0
865	Group 1	Sphere	32.63	904.7	216.8	0.4589	0.3662	0
866	Group 1	Sphere	89.35	856.3	268.8	0.256	0.5449	0
867	Group 1	Sphere	78.82	863.7	272.9	0.6611	0.6209	0
868	Group 1	Sphere	104.3	839.2	26.17	0.4826	0.6809	0
869	Group 1	Sphere	104	840.9	149	0.6331	0.327	0
870	Group 1	Sphere	95.47	852.5	126.1	0.5288	0.3906	0
871	Group 1	Sphere	106.2	823.4	53.45	0.4512	0.5216	0
872	Group 1	Sphere	17.34	913.8	181.9	0.4094	0.5248	0
873	Group 1	Sphere	61.27	877	212.5	0.5487	0.5738	0
874	Group 1	Sphere	61.57	876.8	206.2	0.8244	0.7845	0
875	Group 1	Sphere	102.7	845.2	145.7	0.4497	0.5382	0
876	Group 1	Sphere	103.2	843.8	166.7	0.5405	0.6758	0
877	Group 1	Sphere	27.35	909.1	55.09	0.5299	0.6737	0
878	Group 1	Sphere	65.27	874.1	316.9	0.2853	0.6698	0
879	Group 1	Sphere	55.78	881.1	97.77	0.4373	0.6513	0
880	Group 1	Sphere	52.55	883.5	226.8	0.6171	0.291	0
881	Group 1	Sphere	66.47	873	282.1	0.4005	0.4682	0
882	Group 1	Sphere	84.63	859.5	301	0.5045	0.3277	0
883	Group 1	Sphere	81.84	861.5	241.6	0.5617	0.4802	0
884	Group 1	Sphere	105.7	829	110.7	0.3912	0.2714	0
885	Group 1	Sphere	62.53	876.1	345.1	0.4707	0.6977	0
886	Group 1	Sphere	91.49	855	104	0.5074	0.3068	0
887	Group 1	Sphere	80.53	862.5	60.6	0.603	0.2297	0
888	Group 1	Sphere	38.3	897.2	73.11	0.7361	0.4601	0
889	Group 1	Sphere	15.01	914.2	267.9	0.5886	0.3616	0
890	Group 1	Sphere	46.64	888.4	346.9	0.756	0.4969	0
891	Group 1	Sphere	82.19	861.3	268.3	0.4213	0.4943	0
892	Group 1	Sphere	74.07	867.2	231.1	0.3027	0.4921	0
893	Group 1	Sphere	34.17	903	180.5	0.4567	0.5749	0
894	Group 1	Sphere	84.91	859.3	296.6	0.5891	0.6635	0
895	Group 1	Sphere	54.72	881.8	240.9	0.3438	0.5399	0
896	Group 1	Sphere	59.39	878.3	170.8	0.4304	0.3837	0
897	Group 1	Sphere	105.9	827.3	329.6	0.5553	0.6684	0
898	Group 1	Sphere	34.73	901.9	239	0.6451	0.4254	0
899	Group 1	Sphere	32.02	905.4	120.8	0.5997	0.3469	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
900	Group 1	Sphere	42.06	893.7	342.3	0.614	0.202	0
901	Group 1	Sphere	83.9	860.1	359.8	0.5462	0.1487	0
902	Group 1	Sphere	105.5	830.3	24.92	0.6383	0.5342	0
903	Group 1	Sphere	23.6	912	161.9	0.6213	0.6693	0
904	Group 1	Sphere	106	826.2	284.6	0.1531	0.413	0
905	Group 1	Sphere	52.85	883.3	225.2	0.453	0.6303	0
906	Group 1	Sphere	105.3	832.5	88.11	0.3481	0.4693	0
907	Group 1	Sphere	77.66	864.6	247.3	0.4075	0.4083	0
908	Group 1	Sphere	98.3	850.3	106.1	0.5133	0.6553	0
909	Group 1	Sphere	31.79	905.7	218	0.752	0.6203	0
910	Group 1	Sphere	106.3	822.7	178.1	0.6641	0.5044	0
911	Group 1	Sphere	22.92	912.4	143.9	0.6566	0.4628	0
912	Group 1	Sphere	104.8	836.1	23.2	0.5247	0.5477	0
913	Group 1	Sphere	76.42	865.5	126.5	0.5446	0.6289	0
914	Group 1	Sphere	46.85	888.2	315.3	0.5844	0.6741	0
915	Group 1	Sphere	75.29	866.3	261.9	0.4721	0.428	0
916	Group 1	Sphere	56.13	880.8	145.1	0.6938	0.4973	0
917	Group 1	Sphere	61.4	876.9	218.5	0.3721	0.4685	0
918	Group 1	Sphere	59.75	878	217.1	0.7245	0.2203	0
919	Group 1	Sphere	32.43	904.9	192.4	0.206	0.6229	0
920	Group 1	Sphere	80.89	862.2	98.71	0.612	0.5604	0
921	Group 1	Sphere	94.02	853.4	293.4	0.789	0.6754	0
922	Group 1	Sphere	105.8	827.9	260.4	0.6748	0.3817	0
923	Group 1	Sphere	55.74	881.1	334.2	0.3342	0.6059	0
924	Group 1	Sphere	65.96	873.6	172.7	0.398	0.3116	0
925	Group 1	Sphere	92.89	854.1	345.6	0.7595	0.5741	0
926	Group 1	Sphere	72.36	868.3	351.4	0.4458	0.3443	0
927	Group 1	Sphere	44.37	890.9	34.1	0.1642	0.527	0
928	Group 1	Sphere	102.6	845.4	17.25	0.3335	0.3857	0
929	Group 1	Sphere	59.83	878	317.7	0.5587	0.3511	0
930	Group 1	Sphere	48.47	886.6	63.49	0.4042	0.4392	0
931	Group 1	Sphere	20.8	913.1	274.5	0.5641	0.5081	0
932	Group 1	Sphere	94.37	853.1	68.82	0.5506	0.7861	0
933	Group 1	Sphere	104.6	837.2	170.4	0.6489	0.6177	0
934	Group 1	Sphere	38.82	896.7	349.1	0.6014	0.5632	0
935	Group 1	Sphere	34.5	902.3	38.73	0.4924	0.5736	0
936	Group 1	Sphere	103.4	843.3	75.71	0.532	0.6712	0
937	Group 1	Sphere	39.62	896.1	140.1	0.5623	0.3648	0
938	Group 1	Sphere	71.07	869.4	99.76	0.6189	0.533	0
939	Group 1	Sphere	59.5	878.2	236.7	0.5875	0.4978	0
940	Group 1	Sphere	104.7	836.3	255.4	0.5198	0.2457	0
941	Group 1	Sphere	22.12	912.8	111.3	0.5312	0.612	0
942	Group 1	Sphere	105.9	826.5	137.8	0.4425	0.3419	0
943	Group 1	Sphere	49.06	886	26.99	0.5237	0.5116	0
944	Group 1	Sphere	55.12	881.5	103	0.4663	0.577	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
945	Group 1	Sphere	65.68	873.8	44.05	0.4256	0.8337	0
946	Group 1	Sphere	91.7	854.8	88.23	0.6607	0.2538	0
947	Group 1	Sphere	71.48	869	282.3	0.6389	0.4199	0
948	Group 1	Sphere	92.57	854.3	94.68	0.3952	0.7419	0
949	Group 1	Sphere	52.3	883.8	299.1	0.3549	0.3974	0
950	Group 1	Sphere	17.6	913.8	321.6	0.5231	0.6313	0
951	Group 1	Sphere	20.02	913.4	282.7	0.5316	0.1848	0
952	Group 1	Sphere	77.03	865	237.5	0.6279	0.4701	0
953	Group 1	Sphere	81.33	861.9	175	0.6044	0.2237	0
954	Group 1	Sphere	66.59	872.9	261.1	0.4171	0.3701	0
955	Group 1	Sphere	99.76	848.9	242.5	0.4736	0.3741	0
956	Group 1	Sphere	36.39	898.8	50.33	0.3647	0.3954	0
957	Group 1	Sphere	15.78	914.1	290.7	0.5794	0.4282	0
958	Group 1	Sphere	64.87	874.4	19.27	0.9061	0.4286	0
959	Group 1	Sphere	67.53	872.1	70.96	0.3322	0.4944	0
960	Group 1	Sphere	54.18	882.2	56.52	0.6765	0.4494	0
961	Group 1	Sphere	23.98	911.8	250	0.4713	0.7013	0
962	Group 1	Sphere	106.1	824.3	207.1	0.438	0.7513	0
963	Group 1	Sphere	57.4	879.7	231.5	0.6167	0.6888	0
964	Group 1	Sphere	88.65	856.8	169.6	0.3473	0.5178	0
965	Group 1	Sphere	23.72	912	309	0.4646	0.5157	0
966	Group 1	Sphere	104.5	837.8	144.8	0.73	0.5723	0
967	Group 1	Sphere	34.61	902.1	130.3	0.2413	0.4747	0
968	Group 1	Sphere	80.06	862.8	149.6	0.6296	0.4049	0
969	Group 1	Sphere	83.97	860	173.6	0.7047	0.4425	0
970	Group 1	Sphere	68.94	871.1	150.7	0.4851	0.5659	0
971	Group 1	Sphere	31.58	906	340.4	0.403	0.7123	0
972	Group 1	Sphere	71.78	868.8	293.8	0.6111	0.3432	0
973	Group 1	Sphere	79.59	863.2	259.1	0.3155	0.373	0
974	Group 1	Sphere	56.82	880.3	355	0.2959	0.3924	0
975	Group 1	Sphere	30.05	907.2	240.5	0.5746	0.4653	0
976	Group 1	Sphere	86.28	858.4	296.7	0.6195	0.3322	0
977	Group 1	Sphere	27.19	909.2	197.5	0.5594	0.3676	0
978	Group 1	Sphere	105.2	833	220.2	0.4584	0.1898	0
979	Group 1	Sphere	100.2	848.5	183.5	0.4579	0.4819	0
980	Group 1	Sphere	51.81	884.2	315	0.6426	0.5669	0
981	Group 1	Sphere	34.44	902.4	332.7	0.4404	0.3862	0
982	Group 1	Sphere	90.73	855.4	4.505	0.3699	0.7724	0
983	Group 1	Sphere	66.13	873.5	80.24	0.4334	0.7205	0
984	Group 1	Sphere	105.3	832.3	80.81	0.5557	0.4584	0
985	Group 1	Sphere	70.03	870.2	244.5	0.3524	0.4718	0
986	Group 1	Sphere	72.7	868.1	356.3	0.1313	0.4514	0
987	Group 1	Sphere	56.87	880.2	65.32	0.4774	0.7693	0
988	Group 1	Sphere	96.39	851.9	138.8	0.2646	0.479	0
989	Group 1	Sphere	92.79	854.1	84.45	0.4595	0.7264	0

Run ID	Rock Type	Shape	X (m)	Y (m)	Rotation (deg)	VX (m/s)	VY (m/s)	VR (deg/s)
990	Group 1	Sphere	57.25	879.9	161.5	0.2407	0.5296	0
991	Group 1	Sphere	106.4	821.7	344.7	0.4572	0.6787	0
992	Group 1	Sphere	67.22	872.3	290.4	0.7876	0.2843	0
993	Group 1	Sphere	27.44	909	142.2	0.5994	0.2896	0
994	Group 1	Sphere	105.7	828.8	43.83	0.618	0.3771	0
995	Group 1	Sphere	96.86	851.6	280.3	0.6372	0.5122	0
996	Group 1	Sphere	32.19	905.2	49.16	0.559	0.5334	0
997	Group 1	Sphere	81.52	861.8	198.8	0.4562	0.4008	0
998	Group 1	Sphere	49.84	885.4	270.9	0.7462	0.378	0
999	Group 1	Sphere	34.78	901.8	191.3	0.376	0.4976	0

Generated Rock Geometries

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
0	5651	2600	0.1	0.6235	0.891	1460
1	5863	2600	0.1	0.6235	0.891	1552
2	6021	2600	0.1	0.6235	0.891	1622
3	5744	2600	0.1	0.6235	0.891	1500
4	5890	2600	0.1	0.6235	0.891	1564
5	5653	2600	0.1	0.6235	0.891	1460
6	5690	2600	0.1	0.6235	0.891	1476
7	5888	2600	0.1	0.6235	0.891	1563
8	5607	2600	0.1	0.6235	0.891	1441
9	5823	2600	0.1	0.6235	0.891	1535
10	5716	2600	0.1	0.6235	0.891	1488
11	5608	2600	0.1	0.6235	0.891	1441
12	5826	2600	0.1	0.6235	0.891	1536
13	5847	2600	0.1	0.6235	0.891	1545
14	5958	2600	0.1	0.6235	0.891	1594
15	5933	2600	0.1	0.6235	0.891	1583
16	5856	2600	0.1	0.6235	0.891	1549
17	5791	2600	0.1	0.6235	0.891	1520
18	5725	2600	0.1	0.6235	0.891	1492
19	5817	2600	0.1	0.6235	0.891	1532
20	5912	2600	0.1	0.6235	0.891	1574
21	5745	2600	0.1	0.6235	0.891	1500
22	5907	2600	0.1	0.6235	0.891	1571
23	5813	2600	0.1	0.6235	0.891	1530
24	5729	2600	0.1	0.6235	0.891	1493
25	5746	2600	0.1	0.6235	0.891	1501
26	5646	2600	0.1	0.6235	0.891	1457
27	5926	2600	0.1	0.6235	0.891	1580
28	5809	2600	0.1	0.6235	0.891	1528
29	5760	2600	0.1	0.6235	0.891	1507
30	5648	2600	0.1	0.6235	0.891	1458
31	5814	2600	0.1	0.6235	0.891	1531
32	5538	2600	0.1	0.6235	0.891	1411
33	5755	2600	0.1	0.6235	0.891	1505
34	5661	2600	0.1	0.6235	0.891	1464
35	5780	2600	0.1	0.6235	0.891	1516
36	5880	2600	0.1	0.6235	0.891	1560
37	5830	2600	0.1	0.6235	0.891	1537
38	5949	2600	0.1	0.6235	0.891	1590
39	5867	2600	0.1	0.6235	0.891	1554
40	5744	2600	0.1	0.6235	0.891	1500
41	5765	2600	0.1	0.6235	0.891	1509
42	5807	2600	0.1	0.6235	0.891	1527
43	5715	2600	0.1	0.6235	0.891	1487
44	5802	2600	0.1	0.6235	0.891	1525

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
45	5757	2600	0.1	0.6235	0.891	1505
46	5702	2600	0.1	0.6235	0.891	1482
47	5881	2600	0.1	0.6235	0.891	1560
48	5878	2600	0.1	0.6235	0.891	1558
49	5770	2600	0.1	0.6235	0.891	1511
50	5689	2600	0.1	0.6235	0.891	1476
51	5923	2600	0.1	0.6235	0.891	1578
52	5838	2600	0.1	0.6235	0.891	1541
53	5657	2600	0.1	0.6235	0.891	1462
54	5771	2600	0.1	0.6235	0.891	1512
55	5843	2600	0.1	0.6235	0.891	1543
56	6025	2600	0.1	0.6235	0.891	1624
57	5698	2600	0.1	0.6235	0.891	1480
58	5742	2600	0.1	0.6235	0.891	1499
59	5766	2600	0.1	0.6235	0.891	1509
60	5864	2600	0.1	0.6235	0.891	1552
61	5661	2600	0.1	0.6235	0.891	1464
62	5840	2600	0.1	0.6235	0.891	1542
63	5666	2600	0.1	0.6235	0.891	1466
64	5810	2600	0.1	0.6235	0.891	1529
65	5816	2600	0.1	0.6235	0.891	1531
66	5792	2600	0.1	0.6235	0.891	1521
67	5897	2600	0.1	0.6235	0.891	1567
68	5696	2600	0.1	0.6235	0.891	1479
69	5647	2600	0.1	0.6235	0.891	1458
70	5618	2600	0.1	0.6235	0.891	1445
71	5789	2600	0.1	0.6235	0.891	1519
72	5645	2600	0.1	0.6235	0.891	1457
73	5749	2600	0.1	0.6235	0.891	1502
74	5696	2600	0.1	0.6235	0.891	1479
75	5739	2600	0.1	0.6235	0.891	1498
76	5643	2600	0.1	0.6235	0.891	1456
77	5905	2600	0.1	0.6235	0.891	1570
78	5822	2600	0.1	0.6235	0.891	1534
79	5623	2600	0.1	0.6235	0.891	1448
80	5881	2600	0.1	0.6235	0.891	1560
81	5805	2600	0.1	0.6235	0.891	1527
82	5604	2600	0.1	0.6235	0.891	1440
83	5969	2600	0.1	0.6235	0.891	1599
84	5823	2600	0.1	0.6235	0.891	1534
85	5885	2600	0.1	0.6235	0.891	1562
86	5982	2600	0.1	0.6235	0.891	1605
87	5804	2600	0.1	0.6235	0.891	1526
88	5708	2600	0.1	0.6235	0.891	1484
89	5751	2600	0.1	0.6235	0.891	1503

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
90	5822	2600	0.1	0.6235	0.891	1534
91	5921	2600	0.1	0.6235	0.891	1577
92	5844	2600	0.1	0.6235	0.891	1543
93	5746	2600	0.1	0.6235	0.891	1501
94	5801	2600	0.1	0.6235	0.891	1525
95	5735	2600	0.1	0.6235	0.891	1496
96	5723	2600	0.1	0.6235	0.891	1490
97	5678	2600	0.1	0.6235	0.891	1471
98	5898	2600	0.1	0.6235	0.891	1568
99	5665	2600	0.1	0.6235	0.891	1465
100	5731	2600	0.1	0.6235	0.891	1494
101	5794	2600	0.1	0.6235	0.891	1522
102	5700	2600	0.1	0.6235	0.891	1481
103	5846	2600	0.1	0.6235	0.891	1545
104	5918	2600	0.1	0.6235	0.891	1576
105	5803	2600	0.1	0.6235	0.891	1526
106	5804	2600	0.1	0.6235	0.891	1526
107	5789	2600	0.1	0.6235	0.891	1520
108	5728	2600	0.1	0.6235	0.891	1493
109	5863	2600	0.1	0.6235	0.891	1552
110	5654	2600	0.1	0.6235	0.891	1461
111	5838	2600	0.1	0.6235	0.891	1541
112	5751	2600	0.1	0.6235	0.891	1503
113	5817	2600	0.1	0.6235	0.891	1532
114	5776	2600	0.1	0.6235	0.891	1514
115	5935	2600	0.1	0.6235	0.891	1584
116	5777	2600	0.1	0.6235	0.891	1514
117	5856	2600	0.1	0.6235	0.891	1549
118	5779	2600	0.1	0.6235	0.891	1515
119	5759	2600	0.1	0.6235	0.891	1506
120	5723	2600	0.1	0.6235	0.891	1491
121	5780	2600	0.1	0.6235	0.891	1516
122	5801	2600	0.1	0.6235	0.891	1525
123	5733	2600	0.1	0.6235	0.891	1495
124	5860	2600	0.1	0.6235	0.891	1551
125	5726	2600	0.1	0.6235	0.891	1492
126	5849	2600	0.1	0.6235	0.891	1546
127	5797	2600	0.1	0.6235	0.891	1523
128	5831	2600	0.1	0.6235	0.891	1538
129	5803	2600	0.1	0.6235	0.891	1526
130	5972	2600	0.1	0.6235	0.891	1600
131	5846	2600	0.1	0.6235	0.891	1545
132	5729	2600	0.1	0.6235	0.891	1493
133	5845	2600	0.1	0.6235	0.891	1544
134	5924	2600	0.1	0.6235	0.891	1579

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
135	5801	2600	0.1	0.6235	0.891	1525
136	5767	2600	0.1	0.6235	0.891	1510
137	5694	2600	0.1	0.6235	0.891	1478
138	5852	2600	0.1	0.6235	0.891	1547
139	5775	2600	0.1	0.6235	0.891	1513
140	5855	2600	0.1	0.6235	0.891	1548
141	5754	2600	0.1	0.6235	0.891	1504
142	5637	2600	0.1	0.6235	0.891	1453
143	5836	2600	0.1	0.6235	0.891	1540
144	5814	2600	0.1	0.6235	0.891	1530
145	5621	2600	0.1	0.6235	0.891	1447
146	5984	2600	0.1	0.6235	0.891	1606
147	5836	2600	0.1	0.6235	0.891	1540
148	5777	2600	0.1	0.6235	0.891	1514
149	5778	2600	0.1	0.6235	0.891	1515
150	5892	2600	0.1	0.6235	0.891	1565
151	5788	2600	0.1	0.6235	0.891	1519
152	5676	2600	0.1	0.6235	0.891	1470
153	5966	2600	0.1	0.6235	0.891	1598
154	5909	2600	0.1	0.6235	0.891	1572
155	5664	2600	0.1	0.6235	0.891	1465
156	5855	2600	0.1	0.6235	0.891	1549
157	5706	2600	0.1	0.6235	0.891	1484
158	5913	2600	0.1	0.6235	0.891	1574
159	5724	2600	0.1	0.6235	0.891	1491
160	6052	2600	0.1	0.6235	0.891	1636
161	5640	2600	0.1	0.6235	0.891	1455
162	5737	2600	0.1	0.6235	0.891	1497
163	5816	2600	0.1	0.6235	0.891	1531
164	5638	2600	0.1	0.6235	0.891	1454
165	5857	2600	0.1	0.6235	0.891	1549
166	5754	2600	0.1	0.6235	0.891	1504
167	5776	2600	0.1	0.6235	0.891	1514
168	5736	2600	0.1	0.6235	0.891	1496
169	5897	2600	0.1	0.6235	0.891	1567
170	5700	2600	0.1	0.6235	0.891	1480
171	5894	2600	0.1	0.6235	0.891	1566
172	5716	2600	0.1	0.6235	0.891	1488
173	5800	2600	0.1	0.6235	0.891	1524
174	5679	2600	0.1	0.6235	0.891	1472
175	5671	2600	0.1	0.6235	0.891	1468
176	5771	2600	0.1	0.6235	0.891	1512
177	5626	2600	0.1	0.6235	0.891	1449
178	5852	2600	0.1	0.6235	0.891	1547
179	5837	2600	0.1	0.6235	0.891	1541

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
180	5633	2600	0.1	0.6235	0.891	1452
181	5842	2600	0.1	0.6235	0.891	1543
182	5583	2600	0.1	0.6235	0.891	1430
183	5719	2600	0.1	0.6235	0.891	1489
184	5700	2600	0.1	0.6235	0.891	1481
185	5829	2600	0.1	0.6235	0.891	1537
186	5796	2600	0.1	0.6235	0.891	1522
187	5669	2600	0.1	0.6235	0.891	1467
188	5952	2600	0.1	0.6235	0.891	1591
189	5714	2600	0.1	0.6235	0.891	1487
190	5889	2600	0.1	0.6235	0.891	1564
191	5854	2600	0.1	0.6235	0.891	1548
192	5797	2600	0.1	0.6235	0.891	1523
193	5791	2600	0.1	0.6235	0.891	1520
194	5793	2600	0.1	0.6235	0.891	1521
195	5824	2600	0.1	0.6235	0.891	1535
196	5731	2600	0.1	0.6235	0.891	1494
197	5892	2600	0.1	0.6235	0.891	1565
198	5847	2600	0.1	0.6235	0.891	1545
199	5820	2600	0.1	0.6235	0.891	1533
200	5635	2600	0.1	0.6235	0.891	1453
201	5750	2600	0.1	0.6235	0.891	1502
202	5844	2600	0.1	0.6235	0.891	1544
203	5725	2600	0.1	0.6235	0.891	1492
204	5656	2600	0.1	0.6235	0.891	1461
205	5794	2600	0.1	0.6235	0.891	1522
206	5745	2600	0.1	0.6235	0.891	1500
207	5684	2600	0.1	0.6235	0.891	1474
208	5781	2600	0.1	0.6235	0.891	1516
209	5838	2600	0.1	0.6235	0.891	1541
210	5771	2600	0.1	0.6235	0.891	1512
211	5853	2600	0.1	0.6235	0.891	1548
212	5898	2600	0.1	0.6235	0.891	1567
213	5747	2600	0.1	0.6235	0.891	1501
214	5869	2600	0.1	0.6235	0.891	1555
215	5944	2600	0.1	0.6235	0.891	1588
216	5852	2600	0.1	0.6235	0.891	1547
217	5869	2600	0.1	0.6235	0.891	1555
218	5693	2600	0.1	0.6235	0.891	1478
219	5592	2600	0.1	0.6235	0.891	1434
220	5774	2600	0.1	0.6235	0.891	1513
221	5758	2600	0.1	0.6235	0.891	1506
222	5697	2600	0.1	0.6235	0.891	1479
223	5858	2600	0.1	0.6235	0.891	1550
224	5805	2600	0.1	0.6235	0.891	1527

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
225	5876	2600	0.1	0.6235	0.891	1558
226	5911	2600	0.1	0.6235	0.891	1573
227	5827	2600	0.1	0.6235	0.891	1536
228	6042	2600	0.1	0.6235	0.891	1632
229	5695	2600	0.1	0.6235	0.891	1479
230	5818	2600	0.1	0.6235	0.891	1532
231	5591	2600	0.1	0.6235	0.891	1434
232	5741	2600	0.1	0.6235	0.891	1498
233	5817	2600	0.1	0.6235	0.891	1532
234	6003	2600	0.1	0.6235	0.891	1614
235	5877	2600	0.1	0.6235	0.891	1558
236	5814	2600	0.1	0.6235	0.891	1531
237	5845	2600	0.1	0.6235	0.891	1544
238	5833	2600	0.1	0.6235	0.891	1539
239	5925	2600	0.1	0.6235	0.891	1580
240	5835	2600	0.1	0.6235	0.891	1540
241	5778	2600	0.1	0.6235	0.891	1515
242	5749	2600	0.1	0.6235	0.891	1502
243	5606	2600	0.1	0.6235	0.891	1441
244	5811	2600	0.1	0.6235	0.891	1529
245	5770	2600	0.1	0.6235	0.891	1511
246	5796	2600	0.1	0.6235	0.891	1522
247	5766	2600	0.1	0.6235	0.891	1510
248	5887	2600	0.1	0.6235	0.891	1563
249	5790	2600	0.1	0.6235	0.891	1520
250	5769	2600	0.1	0.6235	0.891	1511
251	5920	2600	0.1	0.6235	0.891	1577
252	5727	2600	0.1	0.6235	0.891	1492
253	5910	2600	0.1	0.6235	0.891	1573
254	5765	2600	0.1	0.6235	0.891	1509
255	5759	2600	0.1	0.6235	0.891	1507
256	5748	2600	0.1	0.6235	0.891	1501
257	5698	2600	0.1	0.6235	0.891	1480
258	5694	2600	0.1	0.6235	0.891	1478
259	5833	2600	0.1	0.6235	0.891	1539
260	5866	2600	0.1	0.6235	0.891	1553
261	5925	2600	0.1	0.6235	0.891	1579
262	5688	2600	0.1	0.6235	0.891	1475
263	5785	2600	0.1	0.6235	0.891	1517
264	5807	2600	0.1	0.6235	0.891	1527
265	5677	2600	0.1	0.6235	0.891	1471
266	6061	2600	0.1	0.6235	0.891	1640
267	5874	2600	0.1	0.6235	0.891	1557
268	5872	2600	0.1	0.6235	0.891	1556
269	5755	2600	0.1	0.6235	0.891	1505

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
270	5783	2600	0.1	0.6235	0.891	1517
271	5918	2600	0.1	0.6235	0.891	1576
272	5864	2600	0.1	0.6235	0.891	1552
273	5675	2600	0.1	0.6235	0.891	1470
274	5729	2600	0.1	0.6235	0.891	1493
275	5867	2600	0.1	0.6235	0.891	1554
276	5711	2600	0.1	0.6235	0.891	1485
277	5836	2600	0.1	0.6235	0.891	1540
278	5687	2600	0.1	0.6235	0.891	1475
279	5895	2600	0.1	0.6235	0.891	1566
280	5722	2600	0.1	0.6235	0.891	1490
281	5684	2600	0.1	0.6235	0.891	1474
282	5779	2600	0.1	0.6235	0.891	1515
283	5857	2600	0.1	0.6235	0.891	1549
284	5922	2600	0.1	0.6235	0.891	1578
285	5589	2600	0.1	0.6235	0.891	1433
286	5871	2600	0.1	0.6235	0.891	1555
287	5597	2600	0.1	0.6235	0.891	1436
288	5732	2600	0.1	0.6235	0.891	1495
289	5742	2600	0.1	0.6235	0.891	1499
290	5685	2600	0.1	0.6235	0.891	1474
291	5526	2600	0.1	0.6235	0.891	1406
292	5734	2600	0.1	0.6235	0.891	1496
293	5719	2600	0.1	0.6235	0.891	1489
294	5962	2600	0.1	0.6235	0.891	1596
295	5833	2600	0.1	0.6235	0.891	1539
296	5829	2600	0.1	0.6235	0.891	1537
297	5861	2600	0.1	0.6235	0.891	1551
298	5903	2600	0.1	0.6235	0.891	1570
299	5720	2600	0.1	0.6235	0.891	1489
300	5774	2600	0.1	0.6235	0.891	1513
301	5960	2600	0.1	0.6235	0.891	1595
302	5935	2600	0.1	0.6235	0.891	1584
303	5670	2600	0.1	0.6235	0.891	1468
304	5906	2600	0.1	0.6235	0.891	1571
305	5807	2600	0.1	0.6235	0.891	1527
306	5821	2600	0.1	0.6235	0.891	1534
307	5851	2600	0.1	0.6235	0.891	1547
308	5748	2600	0.1	0.6235	0.891	1502
309	5865	2600	0.1	0.6235	0.891	1553
310	5862	2600	0.1	0.6235	0.891	1552
311	5848	2600	0.1	0.6235	0.891	1545
312	5858	2600	0.1	0.6235	0.891	1550
313	5799	2600	0.1	0.6235	0.891	1524
314	5980	2600	0.1	0.6235	0.891	1604

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
315	5693	2600	0.1	0.6235	0.891	1478
316	5768	2600	0.1	0.6235	0.891	1510
317	5751	2600	0.1	0.6235	0.891	1503
318	5920	2600	0.1	0.6235	0.891	1577
319	5853	2600	0.1	0.6235	0.891	1547
320	5847	2600	0.1	0.6235	0.891	1545
321	5829	2600	0.1	0.6235	0.891	1537
322	5883	2600	0.1	0.6235	0.891	1561
323	5739	2600	0.1	0.6235	0.891	1498
324	5978	2600	0.1	0.6235	0.891	1603
325	5819	2600	0.1	0.6235	0.891	1532
326	5539	2600	0.1	0.6235	0.891	1412
327	5687	2600	0.1	0.6235	0.891	1475
328	5875	2600	0.1	0.6235	0.891	1557
329	5761	2600	0.1	0.6235	0.891	1507
330	5879	2600	0.1	0.6235	0.891	1559
331	5869	2600	0.1	0.6235	0.891	1555
332	5687	2600	0.1	0.6235	0.891	1475
333	5634	2600	0.1	0.6235	0.891	1452
334	5747	2600	0.1	0.6235	0.891	1501
335	5740	2600	0.1	0.6235	0.891	1498
336	5757	2600	0.1	0.6235	0.891	1505
337	5812	2600	0.1	0.6235	0.891	1530
338	5870	2600	0.1	0.6235	0.891	1555
339	5789	2600	0.1	0.6235	0.891	1519
340	5840	2600	0.1	0.6235	0.891	1542
341	5842	2600	0.1	0.6235	0.891	1542
342	5939	2600	0.1	0.6235	0.891	1585
343	5827	2600	0.1	0.6235	0.891	1536
344	5888	2600	0.1	0.6235	0.891	1563
345	5721	2600	0.1	0.6235	0.891	1490
346	5788	2600	0.1	0.6235	0.891	1519
347	5770	2600	0.1	0.6235	0.891	1511
348	5644	2600	0.1	0.6235	0.891	1457
349	5815	2600	0.1	0.6235	0.891	1531
350	5796	2600	0.1	0.6235	0.891	1522
351	5779	2600	0.1	0.6235	0.891	1515
352	5738	2600	0.1	0.6235	0.891	1497
353	5668	2600	0.1	0.6235	0.891	1467
354	5707	2600	0.1	0.6235	0.891	1484
355	5899	2600	0.1	0.6235	0.891	1568
356	5874	2600	0.1	0.6235	0.891	1557
357	5568	2600	0.1	0.6235	0.891	1424
358	5819	2600	0.1	0.6235	0.891	1533
359	5759	2600	0.1	0.6235	0.891	1506

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
360	5872	2600	0.1	0.6235	0.891	1556
361	5704	2600	0.1	0.6235	0.891	1483
362	5896	2600	0.1	0.6235	0.891	1566
363	5901	2600	0.1	0.6235	0.891	1569
364	5885	2600	0.1	0.6235	0.891	1562
365	5896	2600	0.1	0.6235	0.891	1567
366	5889	2600	0.1	0.6235	0.891	1563
367	5861	2600	0.1	0.6235	0.891	1551
368	6013	2600	0.1	0.6235	0.891	1619
369	5667	2600	0.1	0.6235	0.891	1467
370	5722	2600	0.1	0.6235	0.891	1490
371	5839	2600	0.1	0.6235	0.891	1541
372	5699	2600	0.1	0.6235	0.891	1480
373	5959	2600	0.1	0.6235	0.891	1594
374	5882	2600	0.1	0.6235	0.891	1561
375	5820	2600	0.1	0.6235	0.891	1533
376	5674	2600	0.1	0.6235	0.891	1469
377	5730	2600	0.1	0.6235	0.891	1494
378	5927	2600	0.1	0.6235	0.891	1580
379	5841	2600	0.1	0.6235	0.891	1542
380	5826	2600	0.1	0.6235	0.891	1536
381	5831	2600	0.1	0.6235	0.891	1538
382	5875	2600	0.1	0.6235	0.891	1557
383	5738	2600	0.1	0.6235	0.891	1497
384	5767	2600	0.1	0.6235	0.891	1510
385	5884	2600	0.1	0.6235	0.891	1561
386	5676	2600	0.1	0.6235	0.891	1470
387	5868	2600	0.1	0.6235	0.891	1554
388	5745	2600	0.1	0.6235	0.891	1500
389	5740	2600	0.1	0.6235	0.891	1498
390	5721	2600	0.1	0.6235	0.891	1490
391	6005	2600	0.1	0.6235	0.891	1615
392	5743	2600	0.1	0.6235	0.891	1499
393	5877	2600	0.1	0.6235	0.891	1558
394	5672	2600	0.1	0.6235	0.891	1469
395	5792	2600	0.1	0.6235	0.891	1521
396	5915	2600	0.1	0.6235	0.891	1575
397	5744	2600	0.1	0.6235	0.891	1500
398	5732	2600	0.1	0.6235	0.891	1495
399	5692	2600	0.1	0.6235	0.891	1477
400	5781	2600	0.1	0.6235	0.891	1516
401	5912	2600	0.1	0.6235	0.891	1574
402	5496	2600	0.1	0.6235	0.891	1393
403	5764	2600	0.1	0.6235	0.891	1509
404	5811	2600	0.1	0.6235	0.891	1529

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
405	5725	2600	0.1	0.6235	0.891	1491
406	5732	2600	0.1	0.6235	0.891	1494
407	5759	2600	0.1	0.6235	0.891	1506
408	5785	2600	0.1	0.6235	0.891	1518
409	5678	2600	0.1	0.6235	0.891	1471
410	5831	2600	0.1	0.6235	0.891	1538
411	6045	2600	0.1	0.6235	0.891	1633
412	5650	2600	0.1	0.6235	0.891	1459
413	5705	2600	0.1	0.6235	0.891	1483
414	5787	2600	0.1	0.6235	0.891	1518
415	5917	2600	0.1	0.6235	0.891	1576
416	5950	2600	0.1	0.6235	0.891	1590
417	5680	2600	0.1	0.6235	0.891	1472
418	5659	2600	0.1	0.6235	0.891	1463
419	5808	2600	0.1	0.6235	0.891	1528
420	5826	2600	0.1	0.6235	0.891	1536
421	5672	2600	0.1	0.6235	0.891	1469
422	5813	2600	0.1	0.6235	0.891	1530
423	5709	2600	0.1	0.6235	0.891	1485
424	5790	2600	0.1	0.6235	0.891	1520
425	5886	2600	0.1	0.6235	0.891	1562
426	5804	2600	0.1	0.6235	0.891	1526
427	5691	2600	0.1	0.6235	0.891	1477
428	5910	2600	0.1	0.6235	0.891	1573
429	5741	2600	0.1	0.6235	0.891	1499
430	5735	2600	0.1	0.6235	0.891	1496
431	5851	2600	0.1	0.6235	0.891	1547
432	5743	2600	0.1	0.6235	0.891	1499
433	5956	2600	0.1	0.6235	0.891	1593
434	5816	2600	0.1	0.6235	0.891	1531
435	5953	2600	0.1	0.6235	0.891	1592
436	5883	2600	0.1	0.6235	0.891	1561
437	5814	2600	0.1	0.6235	0.891	1530
438	5837	2600	0.1	0.6235	0.891	1540
439	5769	2600	0.1	0.6235	0.891	1511
440	5919	2600	0.1	0.6235	0.891	1577
441	5879	2600	0.1	0.6235	0.891	1559
442	5857	2600	0.1	0.6235	0.891	1549
443	5800	2600	0.1	0.6235	0.891	1524
444	5942	2600	0.1	0.6235	0.891	1587
445	5717	2600	0.1	0.6235	0.891	1488
446	5880	2600	0.1	0.6235	0.891	1560
447	5847	2600	0.1	0.6235	0.891	1545
448	5937	2600	0.1	0.6235	0.891	1585
449	5675	2600	0.1	0.6235	0.891	1470

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
450	5711	2600	0.1	0.6235	0.891	1485
451	5658	2600	0.1	0.6235	0.891	1463
452	5730	2600	0.1	0.6235	0.891	1494
453	5987	2600	0.1	0.6235	0.891	1607
454	5884	2600	0.1	0.6235	0.891	1561
455	5966	2600	0.1	0.6235	0.891	1598
456	5779	2600	0.1	0.6235	0.891	1515
457	5929	2600	0.1	0.6235	0.891	1581
458	5807	2600	0.1	0.6235	0.891	1527
459	5960	2600	0.1	0.6235	0.891	1595
460	5701	2600	0.1	0.6235	0.891	1481
461	5695	2600	0.1	0.6235	0.891	1479
462	5760	2600	0.1	0.6235	0.891	1507
463	5680	2600	0.1	0.6235	0.891	1472
464	5808	2600	0.1	0.6235	0.891	1528
465	5806	2600	0.1	0.6235	0.891	1527
466	5726	2600	0.1	0.6235	0.891	1492
467	5889	2600	0.1	0.6235	0.891	1563
468	5810	2600	0.1	0.6235	0.891	1528
469	5858	2600	0.1	0.6235	0.891	1550
470	5903	2600	0.1	0.6235	0.891	1570
471	5782	2600	0.1	0.6235	0.891	1517
472	5867	2600	0.1	0.6235	0.891	1554
473	5824	2600	0.1	0.6235	0.891	1535
474	5904	2600	0.1	0.6235	0.891	1570
475	5734	2600	0.1	0.6235	0.891	1495
476	5605	2600	0.1	0.6235	0.891	1440
477	5673	2600	0.1	0.6235	0.891	1469
478	5914	2600	0.1	0.6235	0.891	1574
479	5870	2600	0.1	0.6235	0.891	1555
480	5795	2600	0.1	0.6235	0.891	1522
481	5737	2600	0.1	0.6235	0.891	1497
482	5629	2600	0.1	0.6235	0.891	1450
483	5752	2600	0.1	0.6235	0.891	1503
484	5782	2600	0.1	0.6235	0.891	1516
485	5549	2600	0.1	0.6235	0.891	1416
486	5948	2600	0.1	0.6235	0.891	1590
487	5595	2600	0.1	0.6235	0.891	1436
488	5905	2600	0.1	0.6235	0.891	1571
489	5730	2600	0.1	0.6235	0.891	1494
490	5747	2600	0.1	0.6235	0.891	1501
491	5783	2600	0.1	0.6235	0.891	1517
492	5941	2600	0.1	0.6235	0.891	1587
493	5812	2600	0.1	0.6235	0.891	1530
494	5660	2600	0.1	0.6235	0.891	1463

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
495	5848	2600	0.1	0.6235	0.891	1545
496	5795	2600	0.1	0.6235	0.891	1522
497	5733	2600	0.1	0.6235	0.891	1495
498	5769	2600	0.1	0.6235	0.891	1511
499	5630	2600	0.1	0.6235	0.891	1450
500	5850	2600	0.1	0.6235	0.891	1546
501	5860	2600	0.1	0.6235	0.891	1551
502	5652	2600	0.1	0.6235	0.891	1460
503	5657	2600	0.1	0.6235	0.891	1462
504	5934	2600	0.1	0.6235	0.891	1584
505	5747	2600	0.1	0.6235	0.891	1501
506	5977	2600	0.1	0.6235	0.891	1602
507	5737	2600	0.1	0.6235	0.891	1497
508	5773	2600	0.1	0.6235	0.891	1512
509	5714	2600	0.1	0.6235	0.891	1487
510	5718	2600	0.1	0.6235	0.891	1488
511	5955	2600	0.1	0.6235	0.891	1593
512	5838	2600	0.1	0.6235	0.891	1541
513	5866	2600	0.1	0.6235	0.891	1553
514	5778	2600	0.1	0.6235	0.891	1514
515	5727	2600	0.1	0.6235	0.891	1492
516	5843	2600	0.1	0.6235	0.891	1543
517	5882	2600	0.1	0.6235	0.891	1560
518	5761	2600	0.1	0.6235	0.891	1507
519	5631	2600	0.1	0.6235	0.891	1451
520	5711	2600	0.1	0.6235	0.891	1486
521	5813	2600	0.1	0.6235	0.891	1530
522	5773	2600	0.1	0.6235	0.891	1512
523	5663	2600	0.1	0.6235	0.891	1465
524	6010	2600	0.1	0.6235	0.891	1618
525	5922	2600	0.1	0.6235	0.891	1578
526	5854	2600	0.1	0.6235	0.891	1548
527	5738	2600	0.1	0.6235	0.891	1497
528	5782	2600	0.1	0.6235	0.891	1516
529	5824	2600	0.1	0.6235	0.891	1535
530	5807	2600	0.1	0.6235	0.891	1528
531	5701	2600	0.1	0.6235	0.891	1481
532	5670	2600	0.1	0.6235	0.891	1468
533	6036	2600	0.1	0.6235	0.891	1629
534	5905	2600	0.1	0.6235	0.891	1571
535	5832	2600	0.1	0.6235	0.891	1538
536	5727	2600	0.1	0.6235	0.891	1492
537	5525	2600	0.1	0.6235	0.891	1406
538	5835	2600	0.1	0.6235	0.891	1540
539	5901	2600	0.1	0.6235	0.891	1569

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
540	5937	2600	0.1	0.6235	0.891	1584
541	5588	2600	0.1	0.6235	0.891	1433
542	5692	2600	0.1	0.6235	0.891	1477
543	5862	2600	0.1	0.6235	0.891	1551
544	5749	2600	0.1	0.6235	0.891	1502
545	5802	2600	0.1	0.6235	0.891	1525
546	5825	2600	0.1	0.6235	0.891	1535
547	5892	2600	0.1	0.6235	0.891	1565
548	5902	2600	0.1	0.6235	0.891	1569
549	5644	2600	0.1	0.6235	0.891	1456
550	5622	2600	0.1	0.6235	0.891	1447
551	5635	2600	0.1	0.6235	0.891	1453
552	5924	2600	0.1	0.6235	0.891	1579
553	5873	2600	0.1	0.6235	0.891	1557
554	5755	2600	0.1	0.6235	0.891	1505
555	5764	2600	0.1	0.6235	0.891	1509
556	5648	2600	0.1	0.6235	0.891	1458
557	5930	2600	0.1	0.6235	0.891	1582
558	5801	2600	0.1	0.6235	0.891	1525
559	5712	2600	0.1	0.6235	0.891	1486
560	5996	2600	0.1	0.6235	0.891	1611
561	5733	2600	0.1	0.6235	0.891	1495
562	5915	2600	0.1	0.6235	0.891	1575
563	5728	2600	0.1	0.6235	0.891	1493
564	5790	2600	0.1	0.6235	0.891	1520
565	5713	2600	0.1	0.6235	0.891	1486
566	5809	2600	0.1	0.6235	0.891	1528
567	5602	2600	0.1	0.6235	0.891	1438
568	5773	2600	0.1	0.6235	0.891	1512
569	5717	2600	0.1	0.6235	0.891	1488
570	5879	2600	0.1	0.6235	0.891	1559
571	5677	2600	0.1	0.6235	0.891	1471
572	5793	2600	0.1	0.6235	0.891	1521
573	5832	2600	0.1	0.6235	0.891	1538
574	5750	2600	0.1	0.6235	0.891	1502
575	5944	2600	0.1	0.6235	0.891	1588
576	5876	2600	0.1	0.6235	0.891	1557
577	5685	2600	0.1	0.6235	0.891	1474
578	5852	2600	0.1	0.6235	0.891	1547
579	5861	2600	0.1	0.6235	0.891	1551
580	5752	2600	0.1	0.6235	0.891	1503
581	5762	2600	0.1	0.6235	0.891	1508
582	5756	2600	0.1	0.6235	0.891	1505
583	5855	2600	0.1	0.6235	0.891	1548
584	5718	2600	0.1	0.6235	0.891	1489

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
585	5901	2600	0.1	0.6235	0.891	1569
586	5815	2600	0.1	0.6235	0.891	1531
587	5816	2600	0.1	0.6235	0.891	1531
588	5768	2600	0.1	0.6235	0.891	1510
589	5837	2600	0.1	0.6235	0.891	1540
590	5826	2600	0.1	0.6235	0.891	1536
591	5849	2600	0.1	0.6235	0.891	1546
592	5775	2600	0.1	0.6235	0.891	1513
593	5820	2600	0.1	0.6235	0.891	1533
594	5620	2600	0.1	0.6235	0.891	1446
595	5939	2600	0.1	0.6235	0.891	1586
596	5712	2600	0.1	0.6235	0.891	1486
597	5625	2600	0.1	0.6235	0.891	1448
598	5823	2600	0.1	0.6235	0.891	1534
599	5969	2600	0.1	0.6235	0.891	1599
600	5871	2600	0.1	0.6235	0.891	1556
601	5812	2600	0.1	0.6235	0.891	1529
602	5739	2600	0.1	0.6235	0.891	1498
603	5804	2600	0.1	0.6235	0.891	1526
604	5831	2600	0.1	0.6235	0.891	1538
605	5806	2600	0.1	0.6235	0.891	1527
606	5798	2600	0.1	0.6235	0.891	1524
607	5795	2600	0.1	0.6235	0.891	1522
608	5785	2600	0.1	0.6235	0.891	1518
609	5766	2600	0.1	0.6235	0.891	1509
610	5775	2600	0.1	0.6235	0.891	1513
611	5713	2600	0.1	0.6235	0.891	1487
612	5810	2600	0.1	0.6235	0.891	1529
613	5614	2600	0.1	0.6235	0.891	1444
614	5797	2600	0.1	0.6235	0.891	1523
615	5758	2600	0.1	0.6235	0.891	1506
616	5896	2600	0.1	0.6235	0.891	1567
617	5575	2600	0.1	0.6235	0.891	1427
618	5786	2600	0.1	0.6235	0.891	1518
619	5685	2600	0.1	0.6235	0.891	1474
620	5845	2600	0.1	0.6235	0.891	1544
621	5743	2600	0.1	0.6235	0.891	1500
622	5848	2600	0.1	0.6235	0.891	1546
623	5799	2600	0.1	0.6235	0.891	1524
624	5767	2600	0.1	0.6235	0.891	1510
625	5768	2600	0.1	0.6235	0.891	1510
626	5627	2600	0.1	0.6235	0.891	1449
627	5784	2600	0.1	0.6235	0.891	1517
628	5878	2600	0.1	0.6235	0.891	1559
629	5713	2600	0.1	0.6235	0.891	1486

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
630	5894	2600	0.1	0.6235	0.891	1565
631	5641	2600	0.1	0.6235	0.891	1455
632	5764	2600	0.1	0.6235	0.891	1508
633	5730	2600	0.1	0.6235	0.891	1494
634	5704	2600	0.1	0.6235	0.891	1482
635	5697	2600	0.1	0.6235	0.891	1479
636	5868	2600	0.1	0.6235	0.891	1554
637	5860	2600	0.1	0.6235	0.891	1551
638	5811	2600	0.1	0.6235	0.891	1529
639	5857	2600	0.1	0.6235	0.891	1549
640	5853	2600	0.1	0.6235	0.891	1548
641	5834	2600	0.1	0.6235	0.891	1539
642	5956	2600	0.1	0.6235	0.891	1593
643	5667	2600	0.1	0.6235	0.891	1467
644	5709	2600	0.1	0.6235	0.891	1485
645	5835	2600	0.1	0.6235	0.891	1540
646	5742	2600	0.1	0.6235	0.891	1499
647	5686	2600	0.1	0.6235	0.891	1475
648	5722	2600	0.1	0.6235	0.891	1490
649	5689	2600	0.1	0.6235	0.891	1476
650	5789	2600	0.1	0.6235	0.891	1519
651	5741	2600	0.1	0.6235	0.891	1499
652	5776	2600	0.1	0.6235	0.891	1514
653	5783	2600	0.1	0.6235	0.891	1517
654	5690	2600	0.1	0.6235	0.891	1477
655	5801	2600	0.1	0.6235	0.891	1525
656	5666	2600	0.1	0.6235	0.891	1466
657	5632	2600	0.1	0.6235	0.891	1451
658	5757	2600	0.1	0.6235	0.891	1506
659	5663	2600	0.1	0.6235	0.891	1465
660	5709	2600	0.1	0.6235	0.891	1484
661	5720	2600	0.1	0.6235	0.891	1489
662	5599	2600	0.1	0.6235	0.891	1437
663	5702	2600	0.1	0.6235	0.891	1482
664	5868	2600	0.1	0.6235	0.891	1554
665	5667	2600	0.1	0.6235	0.891	1466
666	5703	2600	0.1	0.6235	0.891	1482
667	5799	2600	0.1	0.6235	0.891	1524
668	5679	2600	0.1	0.6235	0.891	1472
669	5938	2600	0.1	0.6235	0.891	1585
670	5793	2600	0.1	0.6235	0.891	1521
671	5651	2600	0.1	0.6235	0.891	1460
672	5821	2600	0.1	0.6235	0.891	1534
673	5823	2600	0.1	0.6235	0.891	1534
674	5706	2600	0.1	0.6235	0.891	1483

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
675	5849	2600	0.1	0.6235	0.891	1546
676	5708	2600	0.1	0.6235	0.891	1484
677	5786	2600	0.1	0.6235	0.891	1518
678	5754	2600	0.1	0.6235	0.891	1504
679	5859	2600	0.1	0.6235	0.891	1550
680	5716	2600	0.1	0.6235	0.891	1488
681	5756	2600	0.1	0.6235	0.891	1505
682	5907	2600	0.1	0.6235	0.891	1571
683	5765	2600	0.1	0.6235	0.891	1509
684	5691	2600	0.1	0.6235	0.891	1477
685	5999	2600	0.1	0.6235	0.891	1613
686	5818	2600	0.1	0.6235	0.891	1532
687	5840	2600	0.1	0.6235	0.891	1542
688	5929	2600	0.1	0.6235	0.891	1581
689	5673	2600	0.1	0.6235	0.891	1469
690	5850	2600	0.1	0.6235	0.891	1546
691	5814	2600	0.1	0.6235	0.891	1530
692	5830	2600	0.1	0.6235	0.891	1537
693	5854	2600	0.1	0.6235	0.891	1548
694	5891	2600	0.1	0.6235	0.891	1564
695	5975	2600	0.1	0.6235	0.891	1602
696	5753	2600	0.1	0.6235	0.891	1504
697	5681	2600	0.1	0.6235	0.891	1473
698	5721	2600	0.1	0.6235	0.891	1490
699	5744	2600	0.1	0.6235	0.891	1500
700	5787	2600	0.1	0.6235	0.891	1519
701	5780	2600	0.1	0.6235	0.891	1516
702	5802	2600	0.1	0.6235	0.891	1525
703	5704	2600	0.1	0.6235	0.891	1483
704	5932	2600	0.1	0.6235	0.891	1583
705	5910	2600	0.1	0.6235	0.891	1572
706	5699	2600	0.1	0.6235	0.891	1480
707	5995	2600	0.1	0.6235	0.891	1610
708	5548	2600	0.1	0.6235	0.891	1415
709	5879	2600	0.1	0.6235	0.891	1559
710	5893	2600	0.1	0.6235	0.891	1565
711	5800	2600	0.1	0.6235	0.891	1524
712	5915	2600	0.1	0.6235	0.891	1575
713	5710	2600	0.1	0.6235	0.891	1485
714	5777	2600	0.1	0.6235	0.891	1514
715	5893	2600	0.1	0.6235	0.891	1565
716	5806	2600	0.1	0.6235	0.891	1527
717	5787	2600	0.1	0.6235	0.891	1519
718	5797	2600	0.1	0.6235	0.891	1523
719	5714	2600	0.1	0.6235	0.891	1487

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
720	5841	2600	0.1	0.6235	0.891	1542
721	6007	2600	0.1	0.6235	0.891	1616
722	5871	2600	0.1	0.6235	0.891	1556
723	5760	2600	0.1	0.6235	0.891	1507
724	5787	2600	0.1	0.6235	0.891	1519
725	5842	2600	0.1	0.6235	0.891	1543
726	5843	2600	0.1	0.6235	0.891	1543
727	5870	2600	0.1	0.6235	0.891	1555
728	5788	2600	0.1	0.6235	0.891	1519
729	5696	2600	0.1	0.6235	0.891	1479
730	5680	2600	0.1	0.6235	0.891	1472
731	5776	2600	0.1	0.6235	0.891	1514
732	5724	2600	0.1	0.6235	0.891	1491
733	5613	2600	0.1	0.6235	0.891	1443
734	5772	2600	0.1	0.6235	0.891	1512
735	5785	2600	0.1	0.6235	0.891	1518
736	5851	2600	0.1	0.6235	0.891	1546
737	5767	2600	0.1	0.6235	0.891	1510
738	5803	2600	0.1	0.6235	0.891	1525
739	5738	2600	0.1	0.6235	0.891	1497
740	5619	2600	0.1	0.6235	0.891	1446
741	5763	2600	0.1	0.6235	0.891	1508
742	5895	2600	0.1	0.6235	0.891	1566
743	5693	2600	0.1	0.6235	0.891	1477
744	6030	2600	0.1	0.6235	0.891	1627
745	5762	2600	0.1	0.6235	0.891	1508
746	5829	2600	0.1	0.6235	0.891	1537
747	5999	2600	0.1	0.6235	0.891	1612
748	5859	2600	0.1	0.6235	0.891	1550
749	5682	2600	0.1	0.6235	0.891	1473
750	5610	2600	0.1	0.6235	0.891	1442
751	5974	2600	0.1	0.6235	0.891	1601
752	5825	2600	0.1	0.6235	0.891	1535
753	5791	2600	0.1	0.6235	0.891	1521
754	5793	2600	0.1	0.6235	0.891	1521
755	5866	2600	0.1	0.6235	0.891	1553
756	5740	2600	0.1	0.6235	0.891	1498
757	5783	2600	0.1	0.6235	0.891	1517
758	5784	2600	0.1	0.6235	0.891	1517
759	5772	2600	0.1	0.6235	0.891	1512
760	5772	2600	0.1	0.6235	0.891	1512
761	5965	2600	0.1	0.6235	0.891	1597
762	5928	2600	0.1	0.6235	0.891	1581
763	5559	2600	0.1	0.6235	0.891	1420
764	5819	2600	0.1	0.6235	0.891	1533

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
765	5808	2600	0.1	0.6235	0.891	1528
766	5642	2600	0.1	0.6235	0.891	1456
767	5767	2600	0.1	0.6235	0.891	1510
768	5513	2600	0.1	0.6235	0.891	1401
769	5946	2600	0.1	0.6235	0.891	1589
770	5820	2600	0.1	0.6235	0.891	1533
771	5769	2600	0.1	0.6235	0.891	1511
772	5970	2600	0.1	0.6235	0.891	1600
773	5798	2600	0.1	0.6235	0.891	1523
774	5742	2600	0.1	0.6235	0.891	1499
775	5585	2600	0.1	0.6235	0.891	1431
776	5839	2600	0.1	0.6235	0.891	1541
777	5846	2600	0.1	0.6235	0.891	1545
778	5840	2600	0.1	0.6235	0.891	1542
779	5781	2600	0.1	0.6235	0.891	1516
780	5630	2600	0.1	0.6235	0.891	1450
781	5753	2600	0.1	0.6235	0.891	1504
782	5729	2600	0.1	0.6235	0.891	1493
783	5876	2600	0.1	0.6235	0.891	1558
784	5762	2600	0.1	0.6235	0.891	1508
785	5734	2600	0.1	0.6235	0.891	1496
786	5812	2600	0.1	0.6235	0.891	1530
787	5710	2600	0.1	0.6235	0.891	1485
788	5777	2600	0.1	0.6235	0.891	1514
789	5682	2600	0.1	0.6235	0.891	1473
790	5724	2600	0.1	0.6235	0.891	1491
791	5830	2600	0.1	0.6235	0.891	1537
792	5882	2600	0.1	0.6235	0.891	1560
793	5746	2600	0.1	0.6235	0.891	1501
794	5824	2600	0.1	0.6235	0.891	1535
795	5828	2600	0.1	0.6235	0.891	1536
796	5710	2600	0.1	0.6235	0.891	1485
797	5863	2600	0.1	0.6235	0.891	1552
798	5757	2600	0.1	0.6235	0.891	1505
799	5654	2600	0.1	0.6235	0.891	1461
800	5943	2600	0.1	0.6235	0.891	1587
801	5611	2600	0.1	0.6235	0.891	1443
802	5706	2600	0.1	0.6235	0.891	1483
803	5655	2600	0.1	0.6235	0.891	1461
804	5751	2600	0.1	0.6235	0.891	1503
805	5748	2600	0.1	0.6235	0.891	1502
806	5908	2600	0.1	0.6235	0.891	1572
807	5804	2600	0.1	0.6235	0.891	1526
808	5725	2600	0.1	0.6235	0.891	1491
809	5828	2600	0.1	0.6235	0.891	1537

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
810	5827	2600	0.1	0.6235	0.891	1536
811	5887	2600	0.1	0.6235	0.891	1562
812	5683	2600	0.1	0.6235	0.891	1473
813	5819	2600	0.1	0.6235	0.891	1533
814	5763	2600	0.1	0.6235	0.891	1508
815	5826	2600	0.1	0.6235	0.891	1536
816	5715	2600	0.1	0.6235	0.891	1487
817	5927	2600	0.1	0.6235	0.891	1581
818	5772	2600	0.1	0.6235	0.891	1512
819	5794	2600	0.1	0.6235	0.891	1522
820	5670	2600	0.1	0.6235	0.891	1468
821	5774	2600	0.1	0.6235	0.891	1513
822	5726	2600	0.1	0.6235	0.891	1492
823	5785	2600	0.1	0.6235	0.891	1518
824	5752	2600	0.1	0.6235	0.891	1503
825	5702	2600	0.1	0.6235	0.891	1481
826	5886	2600	0.1	0.6235	0.891	1562
827	5792	2600	0.1	0.6235	0.891	1521
828	5884	2600	0.1	0.6235	0.891	1561
829	5599	2600	0.1	0.6235	0.891	1437
830	5917	2600	0.1	0.6235	0.891	1576
831	5758	2600	0.1	0.6235	0.891	1506
832	5698	2600	0.1	0.6235	0.891	1480
833	5573	2600	0.1	0.6235	0.891	1426
834	5930	2600	0.1	0.6235	0.891	1582
835	5673	2600	0.1	0.6235	0.891	1469
836	5811	2600	0.1	0.6235	0.891	1529
837	5706	2600	0.1	0.6235	0.891	1483
838	5845	2600	0.1	0.6235	0.891	1544
839	5809	2600	0.1	0.6235	0.891	1528
840	5761	2600	0.1	0.6235	0.891	1507
841	5688	2600	0.1	0.6235	0.891	1476
842	5774	2600	0.1	0.6235	0.891	1513
843	5562	2600	0.1	0.6235	0.891	1421
844	5636	2600	0.1	0.6235	0.891	1453
845	5774	2600	0.1	0.6235	0.891	1513
846	5784	2600	0.1	0.6235	0.891	1517
847	5872	2600	0.1	0.6235	0.891	1556
848	6086	2600	0.1	0.6235	0.891	1652
849	5718	2600	0.1	0.6235	0.891	1488
850	5563	2600	0.1	0.6235	0.891	1422
851	5776	2600	0.1	0.6235	0.891	1514
852	5794	2600	0.1	0.6235	0.891	1522
853	5834	2600	0.1	0.6235	0.891	1539
854	5685	2600	0.1	0.6235	0.891	1474

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
855	5703	2600	0.1	0.6235	0.891	1482
856	5877	2600	0.1	0.6235	0.891	1558
857	5748	2600	0.1	0.6235	0.891	1502
858	5708	2600	0.1	0.6235	0.891	1484
859	5746	2600	0.1	0.6235	0.891	1501
860	5799	2600	0.1	0.6235	0.891	1524
861	5757	2600	0.1	0.6235	0.891	1506
862	5941	2600	0.1	0.6235	0.891	1586
863	5790	2600	0.1	0.6235	0.891	1520
864	5707	2600	0.1	0.6235	0.891	1484
865	5750	2600	0.1	0.6235	0.891	1502
866	5764	2600	0.1	0.6235	0.891	1508
867	5664	2600	0.1	0.6235	0.891	1465
868	5694	2600	0.1	0.6235	0.891	1478
869	5841	2600	0.1	0.6235	0.891	1542
870	5719	2600	0.1	0.6235	0.891	1489
871	5740	2600	0.1	0.6235	0.891	1498
872	5662	2600	0.1	0.6235	0.891	1464
873	5817	2600	0.1	0.6235	0.891	1532
874	5833	2600	0.1	0.6235	0.891	1539
875	5683	2600	0.1	0.6235	0.891	1473
876	5836	2600	0.1	0.6235	0.891	1540
877	5727	2600	0.1	0.6235	0.891	1493
878	5900	2600	0.1	0.6235	0.891	1568
879	5650	2600	0.1	0.6235	0.891	1459
880	5861	2600	0.1	0.6235	0.891	1551
881	5822	2600	0.1	0.6235	0.891	1534
882	5890	2600	0.1	0.6235	0.891	1564
883	5798	2600	0.1	0.6235	0.891	1523
884	5571	2600	0.1	0.6235	0.891	1425
885	5690	2600	0.1	0.6235	0.891	1476
886	5825	2600	0.1	0.6235	0.891	1535
887	5624	2600	0.1	0.6235	0.891	1448
888	5715	2600	0.1	0.6235	0.891	1487
889	5875	2600	0.1	0.6235	0.891	1557
890	5781	2600	0.1	0.6235	0.891	1516
891	5778	2600	0.1	0.6235	0.891	1515
892	5792	2600	0.1	0.6235	0.891	1521
893	5859	2600	0.1	0.6235	0.891	1550
894	5953	2600	0.1	0.6235	0.891	1592
895	5753	2600	0.1	0.6235	0.891	1504
896	5764	2600	0.1	0.6235	0.891	1509
897	5770	2600	0.1	0.6235	0.891	1511
898	5839	2600	0.1	0.6235	0.891	1542
899	5873	2600	0.1	0.6235	0.891	1556

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
900	5701	2600	0.1	0.6235	0.891	1481
901	5888	2600	0.1	0.6235	0.891	1563
902	5616	2600	0.1	0.6235	0.891	1445
903	5899	2600	0.1	0.6235	0.891	1568
904	5951	2600	0.1	0.6235	0.891	1591
905	5815	2600	0.1	0.6235	0.891	1531
906	5553	2600	0.1	0.6235	0.891	1418
907	5720	2600	0.1	0.6235	0.891	1490
908	5864	2600	0.1	0.6235	0.891	1553
909	5933	2600	0.1	0.6235	0.891	1583
910	5756	2600	0.1	0.6235	0.891	1505
911	5799	2600	0.1	0.6235	0.891	1524
912	5795	2600	0.1	0.6235	0.891	1522
913	5828	2600	0.1	0.6235	0.891	1536
914	5891	2600	0.1	0.6235	0.891	1564
915	5900	2600	0.1	0.6235	0.891	1568
916	5884	2600	0.1	0.6235	0.891	1561
917	5657	2600	0.1	0.6235	0.891	1462
918	5649	2600	0.1	0.6235	0.891	1459
919	5723	2600	0.1	0.6235	0.891	1491
920	5947	2600	0.1	0.6235	0.891	1589
921	5750	2600	0.1	0.6235	0.891	1503
922	5656	2600	0.1	0.6235	0.891	1462
923	5850	2600	0.1	0.6235	0.891	1546
924	5805	2600	0.1	0.6235	0.891	1526
925	5986	2600	0.1	0.6235	0.891	1607
926	5766	2600	0.1	0.6235	0.891	1509
927	5832	2600	0.1	0.6235	0.891	1538
928	5865	2600	0.1	0.6235	0.891	1553
929	5681	2600	0.1	0.6235	0.891	1473
930	5791	2600	0.1	0.6235	0.891	1520
931	5835	2600	0.1	0.6235	0.891	1540
932	5796	2600	0.1	0.6235	0.891	1523
933	5803	2600	0.1	0.6235	0.891	1526
934	5760	2600	0.1	0.6235	0.891	1507
935	5816	2600	0.1	0.6235	0.891	1531
936	5732	2600	0.1	0.6235	0.891	1495
937	5614	2600	0.1	0.6235	0.891	1444
938	5782	2600	0.1	0.6235	0.891	1516
939	5865	2600	0.1	0.6235	0.891	1553
940	5752	2600	0.1	0.6235	0.891	1503
941	5628	2600	0.1	0.6235	0.891	1450
942	5856	2600	0.1	0.6235	0.891	1549
943	5990	2600	0.1	0.6235	0.891	1608
944	5704	2600	0.1	0.6235	0.891	1482

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
945	5603	2600	0.1	0.6235	0.891	1439
946	5717	2600	0.1	0.6235	0.891	1488
947	5577	2600	0.1	0.6235	0.891	1428
948	5755	2600	0.1	0.6235	0.891	1504
949	5661	2600	0.1	0.6235	0.891	1464
950	5821	2600	0.1	0.6235	0.891	1533
951	5585	2600	0.1	0.6235	0.891	1431
952	5829	2600	0.1	0.6235	0.891	1537
953	5669	2600	0.1	0.6235	0.891	1467
954	5659	2600	0.1	0.6235	0.891	1463
955	5762	2600	0.1	0.6235	0.891	1508
956	5805	2600	0.1	0.6235	0.891	1526
957	5640	2600	0.1	0.6235	0.891	1455
958	5902	2600	0.1	0.6235	0.891	1569
959	5720	2600	0.1	0.6235	0.891	1489
960	5761	2600	0.1	0.6235	0.891	1507
961	5580	2600	0.1	0.6235	0.891	1429
962	5786	2600	0.1	0.6235	0.891	1518
963	5735	2600	0.1	0.6235	0.891	1496
964	5982	2600	0.1	0.6235	0.891	1605
965	5916	2600	0.1	0.6235	0.891	1576
966	5913	2600	0.1	0.6235	0.891	1574
967	5786	2600	0.1	0.6235	0.891	1518
968	5809	2600	0.1	0.6235	0.891	1528
969	5771	2600	0.1	0.6235	0.891	1512
970	5736	2600	0.1	0.6235	0.891	1496
971	5844	2600	0.1	0.6235	0.891	1544
972	5947	2600	0.1	0.6235	0.891	1589
973	5931	2600	0.1	0.6235	0.891	1582
974	5754	2600	0.1	0.6235	0.891	1504
975	5818	2600	0.1	0.6235	0.891	1532
976	5731	2600	0.1	0.6235	0.891	1494
977	5639	2600	0.1	0.6235	0.891	1454
978	5617	2600	0.1	0.6235	0.891	1445
979	5834	2600	0.1	0.6235	0.891	1539
980	5646	2600	0.1	0.6235	0.891	1458
981	5909	2600	0.1	0.6235	0.891	1572
982	5675	2600	0.1	0.6235	0.891	1470
983	6019	2600	0.1	0.6235	0.891	1621
984	5810	2600	0.1	0.6235	0.891	1529
985	5638	2600	0.1	0.6235	0.891	1454
986	5780	2600	0.1	0.6235	0.891	1515
987	5992	2600	0.1	0.6235	0.891	1609
988	5908	2600	0.1	0.6235	0.891	1572
989	5963	2600	0.1	0.6235	0.891	1596

Run ID	Mass (kg)	Density (kg/m ³)	Size (m)	Area (m ²)	Depth (m)	Moment of Inertia
990	5734	2600	0.1	0.6235	0.891	1496
991	5821	2600	0.1	0.6235	0.891	1533
992	5705	2600	0.1	0.6235	0.891	1483
993	5737	2600	0.1	0.6235	0.891	1497
994	5692	2600	0.1	0.6235	0.891	1477
995	5843	2600	0.1	0.6235	0.891	1543
996	5736	2600	0.1	0.6235	0.891	1496
997	5712	2600	0.1	0.6235	0.891	1486
998	5763	2600	0.1	0.6235	0.891	1508
999	5789	2600	0.1	0.6235	0.891	1520

Path Results Summary

ID	Compute Time (s)	Events	Stopping Reason	End Loc
0	0	272	Stopped	272.4
1	0	299	Stopped	277.7
2	0	133	Stopped	272.6
3	0	66	Stopped	315.2
4	0	213	Stopped	282.5
5	0	47	Stopped	292.3
6	0	134	Stopped	275
7	0	108	Stopped	286.5
8	0	137	Stopped	283.3
9	0	44	Stopped	273.9
10	0	54	Stopped	264.3
11	0	98	Stopped	271.3
12	0	57	Stopped	274.9
13	0	128	Stopped	278.2
14	0	106	Stopped	271.9
15	0	64	Stopped	259.7
16	0	50	Stopped	281.2
17	0	98	Stopped	281.6
18	0	221	Stopped	269.8
19	0	117	Stopped	275
20	0	112	Stopped	282.8
21	0	252	Stopped	266.3
22	0	62	Stopped	266.5
23	0	41	Stopped	265.8
24	0	213	Stopped	274.6
25	0	114	Stopped	267.4
26	0	303	Stopped	269.8
27	0	102	Stopped	270.6
28	0	116	Stopped	317
29	0	191	Stopped	277.8
30	0	48	Stopped	265.2
31	0	80	Stopped	278.1
32	0	210	Stopped	268.9
33	0	204	Stopped	274.8
34	0	198	Stopped	276.6
35	0	61	Stopped	280.6
36	0	109	Stopped	277.9
37	0	51	Stopped	284.1
38	0	192	Stopped	272.6
39	0	188	Stopped	285.6
40	0	114	Stopped	260.9
41	0	54	Stopped	264.8
42	0	90	Stopped	269.6
43	0	38	Stopped	277.4
44	0	39	Stopped	264.9

ID	Compute Time (s)	Events	Stopping Reason	End Loc
45	0	282	Stopped	269.3
46	0	186	Stopped	269.1
47	0	153	Stopped	266.6
48	0	129	Stopped	307.2
49	0	259	Stopped	268
50	0	101	Stopped	283.3
51	0	93	Stopped	307.7
52	0	212	Stopped	271.7
53	0	247	Stopped	280.6
54	0	5	Stopped	16.97
55	0	69	Stopped	284.3
56	0	179	Stopped	265.7
57	0	115	Stopped	268
58	0	143	Stopped	302
59	0	88	Stopped	265.1
60	0	65	Stopped	266.1
61	0	44	Stopped	264.3
62	0	63	Stopped	276.5
63	0	128	Stopped	285.2
64	0	37	Stopped	272.6
65	0	53	Stopped	267.4
66	0	117	Stopped	285.3
67	0	277	Stopped	267.5
68	0	278	Stopped	264.6
69	0	138	Stopped	291.8
70	0	147	Stopped	265.6
71	0	134	Stopped	271
72	0	180	Stopped	264.5
73	0	128	Stopped	281.3
74	0	160	Stopped	266.3
75	0	82	Stopped	278.1
76	0	83	Stopped	282.5
77	0	206	Stopped	266.1
78	0	68	Stopped	263.5
79	0	289	Stopped	262.7
80	0	60	Stopped	270.3
81	0	46	Stopped	268.3
82	0	77	Stopped	273.8
83	0	88	Stopped	263.2
84	0	99	Stopped	265.4
85	0	234	Stopped	266.1
86	0	164	Stopped	276.3
87	0	64	Stopped	272.4
88	0	56	Stopped	293.8
89	0	52	Stopped	309.3

ID	Compute Time (s)	Events	Stopping Reason	End Loc
90	0	238	Stopped	264.4
91	0	288	Stopped	281.6
92	0	51	Stopped	267.8
93	0	102	Stopped	265.7
94	0	214	Stopped	267
95	0	5	Stopped	15.82
96	0	229	Stopped	274.5
97	0	268	Stopped	285.2
98	0	136	Stopped	279
99	0	112	Stopped	283.2
100	0	51	Stopped	276.3
101	0	200	Stopped	272.3
102	0	108	Stopped	265
103	0	104	Stopped	261
104	0	200	Stopped	266.5
105	0	284	Stopped	277.9
106	0	53	Stopped	285.4
107	0	54	Stopped	268.6
108	0	40	Stopped	299.8
109	0	75	Stopped	263.9
110	0	196	Stopped	269.1
111	0	103	Stopped	293.8
112	0	107	Stopped	278.2
113	0	50	Stopped	267.6
114	0	91	Stopped	268.8
115	0	115	Stopped	285.5
116	0	104	Stopped	281.3
117	0	135	Stopped	268.8
118	0	148	Stopped	277.7
119	0	35	Stopped	266.1
120	0	109	Stopped	280.9
121	0	38	Stopped	264.2
122	0	89	Stopped	266.5
123	0	53	Stopped	259.3
124	0	111	Stopped	278.7
125	0	179	Stopped	292.2
126	0	220	Stopped	266.5
127	0	217	Stopped	281.3
128	0	258	Stopped	276.5
129	0	143	Stopped	288.3
130	0	313	Stopped	270.5
131	0	258	Stopped	265.3
132	0	35	Stopped	271.1
133	0	285	Stopped	281.4
134	0	75	Stopped	273.6

ID	Compute Time (s)	Events	Stopping Reason	End Loc
135	0	94	Stopped	269.3
136	0	86	Stopped	265.5
137	0	50	Stopped	269.5
138	0	87	Stopped	274.5
139	0	137	Stopped	291
140	0	106	Stopped	285.7
141	0	72	Stopped	266.1
142	0	88	Stopped	283.2
143	0	47	Stopped	290.3
144	0	231	Stopped	275.4
145	0	122	Stopped	267.5
146	0	177	Stopped	267.6
147	0	285	Stopped	273.7
148	0	116	Stopped	271.1
149	0	106	Stopped	268.8
150	0	67	Stopped	287.4
151	0	281	Stopped	278.5
152	0	63	Stopped	269.5
153	0	51	Stopped	280.9
154	0	201	Stopped	267.5
155	0	59	Stopped	282
156	0	67	Stopped	303
157	0	177	Stopped	274.1
158	0	319	Stopped	271
159	0	118	Stopped	284.9
160	0	124	Stopped	267.4
161	0	187	Stopped	271.2
162	0	110	Stopped	282.1
163	0	234	Stopped	268.9
164	0	206	Stopped	267.4
165	0	159	Stopped	275.8
166	0	80	Stopped	268
167	0	107	Stopped	275.8
168	0	484	Stopped	262.2
169	0	97	Stopped	269.9
170	0	83	Stopped	276.8
171	0	61	Stopped	269.6
172	0	63	Stopped	269
173	0	52	Stopped	268.6
174	0	252	Stopped	276.7
175	0	70	Stopped	270.6
176	0	130	Stopped	267.6
177	0	96	Stopped	269
178	0	102	Stopped	271.8
179	0	51	Stopped	268.5

ID	Compute Time (s)	Events	Stopping Reason	End Loc
180	0	63	Stopped	270.7
181	0	270	Stopped	276.4
182	0	193	Stopped	267.7
183	0	60	Stopped	273.6
184	0	78	Stopped	276.7
185	0	241	Stopped	274.4
186	0	273	Stopped	262.1
187	0	295	Stopped	277.5
188	0	319	Stopped	280
189	0	275	Stopped	267.6
190	0	169	Stopped	283.1
191	0	92	Stopped	271.2
192	0	182	Stopped	271.8
193	0	203	Stopped	266.2
194	0	63	Stopped	270.7
195	0	284	Stopped	285.3
196	0	104	Stopped	265.9
197	0	92	Stopped	271
198	0	351	Stopped	274
199	0	235	Stopped	278.4
200	0	215	Stopped	264.3
201	0	52	Stopped	275.3
202	0	56	Stopped	279.2
203	0	55	Stopped	290.9
204	0	59	Stopped	274.1
205	0	196	Stopped	272
206	0	281	Stopped	272.3
207	0	46	Stopped	276.7
208	0	282	Stopped	266.1
209	0	65	Stopped	269.7
210	0	52	Stopped	289
211	0	162	Stopped	266.1
212	0	104	Stopped	278.6
213	0	38	Stopped	285
214	0	109	Stopped	269.6
215	0	303	Stopped	279.1
216	0	261	Stopped	276
217	0	97	Stopped	268.9
218	0	71	Stopped	271.3
219	0	148	Stopped	272.3
220	0	91	Stopped	264.3
221	0	289	Stopped	261
222	0	168	Stopped	276.1
223	0	155	Stopped	295
224	0	307	Stopped	271.7

ID	Compute Time (s)	Events	Stopping Reason	End Loc
225	0	273	Stopped	276.3
226	0	54	Stopped	271.2
227	0	182	Stopped	262.1
228	0	242	Stopped	270.6
229	0	103	Stopped	262.1
230	0	117	Stopped	273.5
231	0	103	Stopped	275.3
232	0	190	Stopped	292
233	0	143	Stopped	278.2
234	0	266	Stopped	266.5
235	0	73	Stopped	263.6
236	0	300	Stopped	266.2
237	0	62	Stopped	263.8
238	0	250	Stopped	271.3
239	0	179	Stopped	273.8
240	0	135	Stopped	276.7
241	0	54	Stopped	274.1
242	0	80	Stopped	274.7
243	0	278	Stopped	284.2
244	0	208	Stopped	269.6
245	0	5	Stopped	16.14
246	0	273	Stopped	266.3
247	0	292	Stopped	277.9
248	0	132	Stopped	269.3
249	0	111	Stopped	270
250	0	96	Stopped	259.4
251	0	99	Stopped	265.5
252	0	272	Stopped	267.8
253	0	280	Stopped	288.7
254	0	262	Stopped	267.9
255	0	71	Stopped	292.2
256	0	273	Stopped	268
257	0	246	Stopped	270.5
258	0	43	Stopped	273.8
259	0	64	Stopped	267.4
260	0	8	Stopped	16.4
261	0	8	Stopped	15.74
262	0	68	Stopped	292.1
263	0	62	Stopped	276
264	0	272	Stopped	269.8
265	0	293	Stopped	271.6
266	0	49	Stopped	269.9
267	0	123	Stopped	266.6
268	0	54	Stopped	276.1
269	0	5	Stopped	17.38

ID	Compute Time (s)	Events	Stopping Reason	End Loc
270	0	38	Stopped	264.3
271	0	47	Stopped	307
272	0	48	Stopped	261.1
273	0	49	Stopped	270.6
274	0	88	Stopped	273.6
275	0	202	Stopped	276.8
276	0	73	Stopped	277.9
277	0	215	Stopped	264.9
278	0	138	Stopped	273.7
279	0	234	Stopped	266.2
280	0	277	Stopped	285.2
281	0	163	Stopped	269.5
282	0	120	Stopped	276.3
283	0	44	Stopped	263.1
284	0	107	Stopped	268.9
285	0	125	Stopped	290.5
286	0	107	Stopped	282.6
287	0	72	Stopped	271.3
288	0	137	Stopped	274.1
289	0	163	Stopped	264.9
290	0	132	Stopped	284.9
291	0	352	Stopped	264.6
292	0	59	Stopped	276.5
293	0	147	Stopped	266.5
294	0	265	Stopped	265.5
295	0	66	Stopped	261.9
296	0	311	Stopped	297.6
297	0	73	Stopped	291.6
298	0	37	Stopped	272
299	0	110	Stopped	278
300	0	280	Stopped	260.8
301	0	205	Stopped	269.1
302	0	61	Stopped	270.9
303	0	72	Stopped	278.5
304	0	197	Stopped	266.3
305	0	49	Stopped	285.5
306	0	140	Stopped	278.6
307	0	75	Stopped	262.2
308	0	115	Stopped	273.7
309	0	127	Stopped	278.5
310	0	196	Stopped	278.1
311	0	43	Stopped	297.7
312	0	114	Stopped	280.7
313	0	102	Stopped	269.2
314	0	118	Stopped	274

ID	Compute Time (s)	Events	Stopping Reason	End Loc
315	0	86	Stopped	276.8
316	0	125	Stopped	270.5
317	0	141	Stopped	273.5
318	0	189	Stopped	268.8
319	0	85	Stopped	272.1
320	0	101	Stopped	271.6
321	0	278	Stopped	281.5
322	0	109	Stopped	295
323	0	47	Stopped	269
324	0	122	Stopped	286.8
325	0	465	Stopped	270.3
326	0	52	Stopped	267.7
327	0	276	Stopped	266.2
328	0	283	Stopped	273.9
329	0	268	Stopped	267.6
330	0	131	Stopped	270.6
331	0	175	Stopped	266.6
332	0	83	Stopped	277.5
333	0	271	Stopped	276.7
334	0	93	Stopped	278.5
335	0	48	Stopped	292.8
336	0	270	Stopped	283.1
337	0	84	Stopped	274.1
338	0	32	Stopped	271.9
339	0	53	Stopped	285.3
340	0	53	Stopped	275.8
341	0	113	Stopped	272.3
342	0	264	Stopped	260.8
343	0	81	Stopped	259.4
344	0	139	Stopped	282.8
345	0	116	Stopped	269.8
346	0	321	Stopped	283.3
347	0	76	Stopped	266.5
348	0	242	Stopped	275.2
349	0	216	Stopped	266.3
350	0	293	Stopped	267.6
351	0	81	Stopped	269.8
352	0	310	Stopped	267.9
353	0	223	Stopped	281.1
354	0	248	Stopped	279
355	0	256	Stopped	287.7
356	0	73	Stopped	276.8
357	0	115	Stopped	277.8
358	0	247	Stopped	267.9
359	0	194	Stopped	273.6

ID	Compute Time (s)	Events	Stopping Reason	End Loc
360	0	249	Stopped	269.8
361	0	143	Stopped	293.6
362	0	106	Stopped	267.2
363	0	197	Stopped	275
364	0	147	Stopped	297
365	0	214	Stopped	270.9
366	0	274	Stopped	280.1
367	0	116	Stopped	273.7
368	0	211	Stopped	275.8
369	0	258	Stopped	269.7
370	0	83	Stopped	273.6
371	0	42	Stopped	266.4
372	0	90	Stopped	272.7
373	0	218	Stopped	268.3
374	0	165	Stopped	267.6
375	0	110	Stopped	272.7
376	0	57	Stopped	275.3
377	0	113	Stopped	278.2
378	0	96	Stopped	274.5
379	0	30	Stopped	276.6
380	0	45	Stopped	297.4
381	0	194	Stopped	268.8
382	0	54	Stopped	266.1
383	0	109	Stopped	274.4
384	0	153	Stopped	273.9
385	0	53	Stopped	271.2
386	0	100	Stopped	279.1
387	0	98	Stopped	269.3
388	0	62	Stopped	283.2
389	0	136	Stopped	271.6
390	0	84	Stopped	267.8
391	0	152	Stopped	270
392	0	151	Stopped	273.7
393	0	99	Stopped	276.5
394	0	82	Stopped	270.2
395	0	59	Stopped	280.7
396	0	252	Stopped	267.7
397	0	262	Stopped	273.3
398	0	144	Stopped	281.3
399	0	117	Stopped	281.1
400	0	101	Stopped	276.8
401	0	200	Stopped	274.6
402	0	82	Stopped	265.4
403	0	208	Stopped	268.4
404	0	270	Stopped	279.9

ID	Compute Time (s)	Events	Stopping Reason	End Loc
405	0	94	Stopped	275.1
406	0	58	Stopped	269.5
407	0	41	Stopped	272.2
408	0	112	Stopped	272.7
409	0	242	Stopped	278.4
410	0	5	Stopped	16.16
411	0	57	Stopped	262.3
412	0	189	Stopped	273.8
413	0	250	Stopped	272.3
414	0	140	Stopped	276.3
415	0	169	Stopped	338.5
416	0	51	Stopped	266.4
417	0	143	Stopped	271.1
418	0	68	Stopped	271.8
419	0	60	Stopped	269.1
420	0	94	Stopped	266.3
421	0	146	Stopped	289.1
422	0	40	Stopped	277.9
423	0	181	Stopped	272.5
424	0	261	Stopped	264.9
425	0	93	Stopped	269.6
426	0	204	Stopped	275.2
427	0	105	Stopped	293.7
428	0	294	Stopped	286.6
429	0	265	Stopped	297.6
430	0	130	Stopped	271.8
431	0	43	Stopped	277.9
432	0	275	Stopped	276.4
433	0	229	Stopped	274.4
434	0	115	Stopped	272.5
435	0	101	Stopped	273.9
436	0	58	Stopped	279.2
437	0	329	Stopped	270.4
438	0	164	Stopped	271.7
439	0	167	Stopped	279.9
440	0	279	Stopped	267
441	0	94	Stopped	276.1
442	0	270	Stopped	275
443	0	227	Stopped	267.4
444	0	168	Stopped	262.9
445	0	59	Stopped	281.2
446	0	44	Stopped	277.9
447	0	135	Stopped	272.5
448	0	126	Stopped	293.9
449	0	41	Stopped	268.7

ID	Compute Time (s)	Events	Stopping Reason	End Loc
450	0	90	Stopped	279.2
451	0	262	Stopped	262.7
452	0	83	Stopped	269.9
453	0	276	Stopped	269.6
454	0	78	Stopped	262.1
455	0	87	Stopped	261
456	0	119	Stopped	276.8
457	0	327	Stopped	267.8
458	0	114	Stopped	280.8
459	0	160	Stopped	277.6
460	0	259	Stopped	283.3
461	0	103	Stopped	281.4
462	0	35	Stopped	282.9
463	0	82	Stopped	269.5
464	0	140	Stopped	268.6
465	0	272	Stopped	268.3
466	0	47	Stopped	261.2
467	0	277	Stopped	279.5
468	0	185	Stopped	284.7
469	0	45	Stopped	282.6
470	0	83	Stopped	269.8
471	0	93	Stopped	273.7
472	0	216	Stopped	286.9
473	0	125	Stopped	290.8
474	0	218	Stopped	282.9
475	0	80	Stopped	280.9
476	0	74	Stopped	274.4
477	0	120	Stopped	272.7
478	0	326	Stopped	269.8
479	0	113	Stopped	270.3
480	0	99	Stopped	258.6
481	0	67	Stopped	271.1
482	0	74	Stopped	266.1
483	0	173	Stopped	278.7
484	0	117	Stopped	283.1
485	0	130	Stopped	270.7
486	0	121	Stopped	268.4
487	0	154	Stopped	281.1
488	0	88	Stopped	265.9
489	0	45	Stopped	267.3
490	0	264	Stopped	283.6
491	0	51	Stopped	280
492	0	31	Stopped	267.9
493	0	291	Stopped	265.6
494	0	129	Stopped	285.3

ID	Compute Time (s)	Events	Stopping Reason	End Loc
495	0	54	Stopped	277.3
496	0	33	Stopped	271.1
497	0	62	Stopped	271.4
498	0	42	Stopped	275.3
499	0	109	Stopped	272.5
500	0	48	Stopped	283.6
501	0	187	Stopped	297.8
502	0	203	Stopped	276.3
503	0	92	Stopped	266.2
504	0	5	Stopped	16.84
505	0	117	Stopped	277.9
506	0	214	Stopped	267.7
507	0	47	Stopped	272.7
508	0	63	Stopped	268.8
509	0	71	Stopped	265.8
510	0	39	Stopped	266.4
511	0	183	Stopped	276.6
512	0	143	Stopped	272.6
513	0	83	Stopped	276.3
514	0	354	Stopped	267.5
515	0	49	Stopped	270.4
516	0	88	Stopped	270.7
517	0	100	Stopped	271.8
518	0	145	Stopped	270.6
519	0	149	Stopped	297.5
520	0	219	Stopped	276.8
521	0	138	Stopped	287.4
522	0	190	Stopped	274.6
523	0	37	Stopped	264.9
524	0	174	Stopped	277.9
525	0	53	Stopped	273.5
526	0	144	Stopped	283.5
527	0	252	Stopped	269.6
528	0	160	Stopped	326.5
529	0	199	Stopped	278.7
530	0	79	Stopped	269.1
531	0	146	Stopped	294.1
532	0	80	Stopped	285.2
533	0	152	Stopped	283.5
534	0	232	Stopped	267.8
535	0	50	Stopped	261.1
536	0	71	Stopped	258.5
537	0	283	Stopped	270
538	0	57	Stopped	292.2
539	0	138	Stopped	268

ID	Compute Time (s)	Events	Stopping Reason	End Loc
540	0	61	Stopped	283.5
541	0	233	Stopped	282.1
542	0	157	Stopped	307.4
543	0	84	Stopped	297.2
544	0	285	Stopped	266.1
545	0	232	Stopped	267.1
546	0	157	Stopped	272.6
547	0	85	Stopped	274
548	0	113	Stopped	275.3
549	0	300	Stopped	267.5
550	0	262	Stopped	277.9
551	0	54	Stopped	277.5
552	0	172	Stopped	292.8
553	0	47	Stopped	274
554	0	202	Stopped	270.5
555	0	100	Stopped	266.4
556	0	63	Stopped	272.2
557	0	272	Stopped	277.4
558	0	292	Stopped	280.5
559	0	310	Stopped	268.8
560	0	28	Stopped	267.9
561	0	102	Stopped	283.4
562	0	110	Stopped	271.2
563	0	249	Stopped	275.2
564	0	92	Stopped	285.2
565	0	49	Stopped	267.8
566	0	105	Stopped	300.4
567	0	58	Stopped	266.1
568	0	211	Stopped	274
569	0	51	Stopped	285.3
570	0	10	Stopped	16.41
571	0	218	Stopped	282.5
572	0	116	Stopped	288
573	0	260	Stopped	282.5
574	0	290	Stopped	269.7
575	0	142	Stopped	277.5
576	0	63	Stopped	262.8
577	0	166	Stopped	316.2
578	0	279	Stopped	272.8
579	0	237	Stopped	272.6
580	0	113	Stopped	276.7
581	0	110	Stopped	304.6
582	0	193	Stopped	269.5
583	0	47	Stopped	266.2
584	0	76	Stopped	275.8

ID	Compute Time (s)	Events	Stopping Reason	End Loc
585	0	282	Stopped	270
586	0	83	Stopped	281.4
587	0	197	Stopped	283.4
588	0	205	Stopped	271
589	0	46	Stopped	263.5
590	0	98	Stopped	279.8
591	0	275	Stopped	290
592	0	218	Stopped	269
593	0	191	Stopped	279.2
594	0	290	Stopped	273.9
595	0	199	Stopped	269.5
596	0	52	Stopped	271.9
597	0	214	Stopped	267.4
598	0	93	Stopped	259.6
599	0	89	Stopped	263.8
600	0	231	Stopped	273.8
601	0	299	Stopped	260.7
602	0	53	Stopped	275.2
603	0	290	Stopped	285.5
604	0	107	Stopped	267.8
605	0	63	Stopped	276.8
606	0	311	Stopped	275.8
607	0	167	Stopped	280.7
608	0	69	Stopped	263.6
609	0	130	Stopped	266.1
610	0	200	Stopped	281.2
611	0	267	Stopped	265.2
612	0	47	Stopped	290.9
613	0	93	Stopped	273.8
614	0	257	Stopped	265.2
615	0	128	Stopped	272.4
616	0	5	Stopped	16.72
617	0	177	Stopped	267.5
618	0	116	Stopped	293.4
619	0	303	Stopped	269.7
620	0	32	Stopped	270.4
621	0	53	Stopped	277.7
622	0	50	Stopped	269.2
623	0	110	Stopped	262.9
624	0	226	Stopped	269.3
625	0	158	Stopped	266.3
626	0	292	Stopped	262.1
627	0	332	Stopped	269
628	0	66	Stopped	260.9
629	0	60	Stopped	276.7

ID	Compute Time (s)	Events	Stopping Reason	End Loc
630	0	74	Stopped	280.8
631	0	284	Stopped	269.8
632	0	106	Stopped	266.6
633	0	245	Stopped	275.5
634	0	55	Stopped	269.1
635	0	54	Stopped	281.4
636	0	153	Stopped	274
637	0	101	Stopped	267.5
638	0	92	Stopped	269.1
639	0	71	Stopped	271.1
640	0	164	Stopped	275
641	0	44	Stopped	274.6
642	0	42	Stopped	260.7
643	0	138	Stopped	262.3
644	0	118	Stopped	267.9
645	0	57	Stopped	272.6
646	0	71	Stopped	259.3
647	0	113	Stopped	267.4
648	0	66	Stopped	266.6
649	0	95	Stopped	282.6
650	0	126	Stopped	267.9
651	0	235	Stopped	269.1
652	0	100	Stopped	279.9
653	0	60	Stopped	267.6
654	0	149	Stopped	269.2
655	0	5	Stopped	16.56
656	0	52	Stopped	294.9
657	0	155	Stopped	278
658	0	309	Stopped	267.6
659	0	161	Stopped	269.6
660	0	205	Stopped	282.3
661	0	191	Stopped	264.6
662	0	36	Stopped	267.6
663	0	44	Stopped	274.1
664	0	178	Stopped	270
665	0	123	Stopped	276.8
666	0	55	Stopped	273.6
667	0	57	Stopped	266.1
668	0	200	Stopped	283.3
669	0	47	Stopped	275.1
670	0	40	Stopped	261.8
671	0	52	Stopped	266.1
672	0	283	Stopped	279.2
673	0	211	Stopped	270.3
674	0	57	Stopped	273.4

ID	Compute Time (s)	Events	Stopping Reason	End Loc
675	0	53	Stopped	269.9
676	0	60	Stopped	267.2
677	0	82	Stopped	269.9
678	0	119	Stopped	261
679	0	44	Stopped	279.3
680	0	275	Stopped	274.5
681	0	35	Stopped	262.5
682	0	110	Stopped	286.5
683	0	330	Stopped	274
684	0	233	Stopped	276.6
685	0	54	Stopped	266.5
686	0	269	Stopped	279.8
687	0	73	Stopped	281.3
688	0	241	Stopped	262.9
689	0	78	Stopped	274.1
690	0	78	Stopped	272.5
691	0	318	Stopped	262.4
692	0	46	Stopped	275
693	0	237	Stopped	269.6
694	0	118	Stopped	292.2
695	0	41	Stopped	263.1
696	0	100	Stopped	274.7
697	0	303	Stopped	277.3
698	0	183	Stopped	274
699	0	319	Stopped	271.1
700	0	131	Stopped	285.4
701	0	276	Stopped	263.7
702	0	42	Stopped	266.1
703	0	241	Stopped	271.2
704	0	118	Stopped	282.5
705	0	186	Stopped	266.3
706	0	187	Stopped	271.3
707	0	67	Stopped	288
708	0	51	Stopped	274
709	0	104	Stopped	264.4
710	0	196	Stopped	270.7
711	0	226	Stopped	263.2
712	0	236	Stopped	267.7
713	0	110	Stopped	269.6
714	0	50	Stopped	282.5
715	0	254	Stopped	266.3
716	0	36	Stopped	281.6
717	0	122	Stopped	269.3
718	0	105	Stopped	279.1
719	0	217	Stopped	264.3

ID	Compute Time (s)	Events	Stopping Reason	End Loc
720	0	111	Stopped	280.5
721	0	145	Stopped	266.1
722	0	200	Stopped	275.4
723	0	222	Stopped	272.7
724	0	5	Stopped	15.57
725	0	105	Stopped	275.8
726	0	46	Stopped	275.5
727	0	274	Stopped	277.9
728	0	164	Stopped	260.9
729	0	116	Stopped	276.7
730	0	111	Stopped	263.9
731	0	60	Stopped	271.3
732	0	245	Stopped	261
733	0	52	Stopped	284.1
734	0	58	Stopped	272.5
735	0	295	Stopped	273.8
736	0	98	Stopped	272.5
737	0	76	Stopped	273.3
738	0	92	Stopped	267.2
739	0	102	Stopped	269.3
740	0	46	Stopped	265.7
741	0	41	Stopped	279
742	0	264	Stopped	269.6
743	0	66	Stopped	276.7
744	0	71	Stopped	271.2
745	0	56	Stopped	267.6
746	0	154	Stopped	281.3
747	0	134	Stopped	294.4
748	0	261	Stopped	268.9
749	0	157	Stopped	268.6
750	0	62	Stopped	267.1
751	0	89	Stopped	274.1
752	0	52	Stopped	279.8
753	0	53	Stopped	288
754	0	236	Stopped	280.6
755	0	287	Stopped	266.5
756	0	264	Stopped	266.3
757	0	139	Stopped	267.7
758	0	253	Stopped	269.5
759	0	304	Stopped	287.5
760	0	178	Stopped	271.2
761	0	132	Stopped	273.8
762	0	47	Stopped	283.4
763	0	5	Stopped	16.91
764	0	131	Stopped	268

ID	Compute Time (s)	Events	Stopping Reason	End Loc
765	0	63	Stopped	267.2
766	0	241	Stopped	279.2
767	0	180	Stopped	268
768	0	149	Stopped	282.5
769	0	233	Stopped	264.8
770	0	243	Stopped	279.2
771	0	304	Stopped	263.1
772	0	90	Stopped	272
773	0	94	Stopped	274.4
774	0	46	Stopped	274.7
775	0	119	Stopped	269.8
776	0	74	Stopped	275.2
777	0	58	Stopped	265.5
778	0	87	Stopped	298.8
779	0	51	Stopped	271.8
780	0	82	Stopped	268.5
781	0	124	Stopped	287.1
782	0	58	Stopped	267.6
783	0	115	Stopped	283.2
784	0	237	Stopped	276.6
785	0	180	Stopped	281.4
786	0	95	Stopped	286.2
787	0	195	Stopped	273.8
788	0	118	Stopped	268.4
789	0	165	Stopped	274.5
790	0	56	Stopped	277.9
791	0	167	Stopped	276.7
792	0	109	Stopped	278.4
793	0	269	Stopped	266.4
794	0	155	Stopped	264.1
795	0	66	Stopped	276.5
796	0	113	Stopped	266.1
797	0	234	Stopped	267.2
798	0	49	Stopped	283.4
799	0	129	Stopped	267.1
800	0	319	Stopped	278.5
801	0	330	Stopped	277.9
802	0	63	Stopped	267.8
803	0	117	Stopped	262.1
804	0	53	Stopped	315.9
805	0	72	Stopped	297.8
806	0	286	Stopped	269.5
807	0	250	Stopped	262.8
808	0	129	Stopped	269.6
809	0	265	Stopped	273.4

ID	Compute Time (s)	Events	Stopping Reason	End Loc
810	0	179	Stopped	277.8
811	0	151	Stopped	285.3
812	0	60	Stopped	273.6
813	0	32	Stopped	268.3
814	0	217	Stopped	273.8
815	0	157	Stopped	283.6
816	0	290	Stopped	271
817	0	217	Stopped	269.1
818	0	77	Stopped	273.8
819	0	63	Stopped	276.6
820	0	122	Stopped	286.6
821	0	55	Stopped	261.2
822	0	262	Stopped	277.5
823	0	89	Stopped	278.6
824	0	104	Stopped	270.5
825	0	40	Stopped	270.7
826	0	303	Stopped	276.4
827	0	289	Stopped	269.3
828	0	64	Stopped	277.8
829	0	296	Stopped	266.2
830	0	64	Stopped	275.9
831	0	44	Stopped	260.2
832	0	111	Stopped	268.5
833	0	72	Stopped	282.4
834	0	265	Stopped	274.8
835	0	60	Stopped	297.4
836	0	88	Stopped	274.5
837	0	247	Stopped	269.6
838	0	73	Stopped	283.4
839	0	228	Stopped	269.8
840	0	93	Stopped	272.5
841	0	45	Stopped	259.5
842	0	254	Stopped	273.3
843	0	59	Stopped	272.8
844	0	202	Stopped	270.6
845	0	245	Stopped	280.6
846	0	166	Stopped	269.7
847	0	193	Stopped	265.1
848	0	62	Stopped	270.4
849	0	8	Stopped	15.92
850	0	120	Stopped	274.7
851	0	65	Stopped	276.9
852	0	97	Stopped	283.3
853	0	196	Stopped	269.6
854	0	116	Stopped	283.7

ID	Compute Time (s)	Events	Stopping Reason	End Loc
855	0	276	Stopped	265.5
856	0	80	Stopped	264.1
857	0	58	Stopped	285.3
858	0	58	Stopped	262.7
859	0	198	Stopped	267.7
860	0	55	Stopped	277.4
861	0	261	Stopped	271.1
862	0	114	Stopped	263.6
863	0	221	Stopped	269.5
864	0	143	Stopped	288
865	0	93	Stopped	286.5
866	0	106	Stopped	275
867	0	141	Stopped	265.8
868	0	82	Stopped	304.8
869	0	54	Stopped	265
870	0	62	Stopped	275.3
871	0	44	Stopped	268.3
872	0	5	Stopped	17.69
873	0	205	Stopped	280.9
874	0	242	Stopped	268.5
875	0	51	Stopped	272.4
876	0	55	Stopped	282.8
877	0	58	Stopped	281.4
878	0	184	Stopped	269
879	0	273	Stopped	275
880	0	95	Stopped	281.2
881	0	156	Stopped	267.8
882	0	84	Stopped	265.8
883	0	140	Stopped	272.3
884	0	46	Stopped	267.9
885	0	258	Stopped	279
886	0	94	Stopped	267.9
887	0	125	Stopped	267.5
888	0	65	Stopped	261.1
889	0	3	Stopped	15.3
890	0	133	Stopped	294
891	0	121	Stopped	267.8
892	0	204	Stopped	261.8
893	0	99	Stopped	295.5
894	0	124	Stopped	282.9
895	0	237	Stopped	262.4
896	0	98	Stopped	276.6
897	0	38	Stopped	264.5
898	0	103	Stopped	288.3
899	0	92	Stopped	267.9

ID	Compute Time (s)	Events	Stopping Reason	End Loc
900	0	296	Stopped	293.2
901	0	102	Stopped	266.5
902	0	52	Stopped	287.6
903	0	128	Stopped	286.5
904	0	39	Stopped	276.5
905	0	211	Stopped	270.7
906	0	39	Stopped	275.2
907	0	122	Stopped	279
908	0	98	Stopped	266.4
909	0	66	Stopped	274.6
910	0	32	Stopped	280.1
911	0	79	Stopped	287.4
912	0	53	Stopped	283.5
913	0	106	Stopped	290.9
914	0	252	Stopped	265.9
915	0	175	Stopped	273.6
916	0	267	Stopped	265.2
917	0	183	Stopped	280.6
918	0	142	Stopped	277.7
919	0	86	Stopped	290.9
920	0	150	Stopped	276.3
921	0	98	Stopped	283.2
922	0	44	Stopped	266.2
923	0	269	Stopped	280
924	0	220	Stopped	278
925	0	102	Stopped	266.2
926	0	169	Stopped	276.4
927	0	316	Stopped	266.6
928	0	40	Stopped	267.9
929	0	185	Stopped	271.3
930	0	274	Stopped	274
931	0	176	Stopped	269.5
932	0	81	Stopped	273.7
933	0	48	Stopped	262
934	0	285	Stopped	274
935	0	207	Stopped	268.9
936	0	61	Stopped	269.6
937	0	101	Stopped	282.4
938	0	146	Stopped	283
939	0	247	Stopped	269.6
940	0	58	Stopped	265.6
941	0	157	Stopped	269.8
942	0	38	Stopped	269.5
943	0	222	Stopped	267.4
944	0	255	Stopped	267.5

ID	Compute Time (s)	Events	Stopping Reason	End Loc
945	0	233	Stopped	286.8
946	0	109	Stopped	276.3
947	0	213	Stopped	272.2
948	0	99	Stopped	276.4
949	0	99	Stopped	282.2
950	0	106	Stopped	265
951	0	262	Stopped	266.5
952	0	155	Stopped	261.6
953	0	146	Stopped	293.5
954	0	213	Stopped	269.6
955	0	84	Stopped	263.8
956	0	301	Stopped	270.2
957	0	5	Stopped	15.98
958	0	195	Stopped	262
959	0	211	Stopped	268.5
960	0	206	Stopped	267.9
961	0	133	Stopped	265.8
962	0	43	Stopped	268.4
963	0	186	Stopped	263.6
964	0	130	Stopped	287.4
965	0	330	Stopped	272.3
966	0	50	Stopped	275.2
967	0	292	Stopped	278.2
968	0	160	Stopped	276.8
969	0	127	Stopped	276.5
970	0	211	Stopped	268.8
971	0	91	Stopped	276.5
972	0	186	Stopped	285.5
973	0	174	Stopped	275.3
974	0	223	Stopped	262
975	0	66	Stopped	271.1
976	0	114	Stopped	273.9
977	0	58	Stopped	262.4
978	0	51	Stopped	272.6
979	0	107	Stopped	270.4
980	0	269	Stopped	266.4
981	0	80	Stopped	274.6
982	0	96	Stopped	271
983	0	247	Stopped	273.8
984	0	44	Stopped	268
985	0	193	Stopped	266.5
986	0	146	Stopped	281.2
987	0	195	Stopped	266.6
988	0	80	Stopped	296.8
989	0	92	Stopped	267.3

ID	Compute Time (s)	Events	Stopping Reason	End Loc
990	0	135	Stopped	293.7
991	0	50	Stopped	272.4
992	0	160	Stopped	271.8
993	0	117	Stopped	261.1
994	0	49	Stopped	294.4
995	0	64	Stopped	266.6
996	0	76	Stopped	278.7
997	0	130	Stopped	270.6
998	0	274	Stopped	270.9
999	0	89	Stopped	266.1