

4115	239.247	146.724	200.734
4116	239.251	146.729	200.742
4117	239.196	146.711	200.581
4118	239.14	146.693	200.418
4119	239.088	146.678	200.263
4120	239.036	146.662	200.108
4121	238.984	146.646	199.954
4122	238.941	146.635	199.811
4123	238.903	146.625	199.674
4124	238.869	146.618	199.545
4125	238.839	146.613	199.422
4126	238.809	146.608	199.3
4127	238.766	146.595	199.157
4128	238.722	146.582	199.015
4129	238.679	146.569	198.873
4130	238.635	146.556	198.731
4131	238.591	146.543	198.59
4132	238.548	146.53	198.449
4133	238.509	146.518	198.315
4134	238.474	146.51	198.189
4135	238.445	146.504	198.071
4136	238.416	146.499	197.954
4137	238.387	146.493	197.837
4138	238.358	146.487	197.721
4139	238.329	146.481	197.606
4140	238.3	146.475	197.49
4141	238.271	146.469	197.374
4142	238.242	146.463	197.259
4143	238.212	146.456	197.143
4144	238.182	146.449	197.026
4145	238.202	146.44	197.123
4146	238.24	146.443	197.28
4147	238.278	146.449	197.426
4148	238.319	146.458	197.572
4149	238.359	146.469	197.716
4150	238.401	146.482	197.862
4151	238.454	146.493	198.02
4152	238.505	146.504	198.18
4153	238.545	146.514	198.32
4154	238.582	146.524	198.455
4155	238.617	146.536	198.588
4156	238.643	146.548	198.687
4157	238.64	146.563	198.659
4158	238.632	146.577	198.608
4159	238.627	146.585	198.561
4160	238.591	146.625	198.385
4161	238.555	146.664	198.209
4162	238.519	146.704	198.034
4163	238.483	146.743	197.86
4164	238.447	146.781	197.686
4165	238.411	146.82	197.513
4166	238.375	146.859	197.341
4167	238.339	146.897	197.17
4168	238.303	146.935	196.999
4169	238.267	146.973	196.829

010237

4170	238.232	147.011	196.66
4171	238.196	147.048	196.491
4172	238.16	147.086	196.323
4173	238.125	147.123	196.156
4174	238.089	147.16	195.99
4175	238.053	147.197	195.824
4176	238.018	147.234	195.659
4177	237.982	147.27	195.495
4178	237.947	147.307	195.331
4179	237.911	147.343	195.168
4180	237.876	147.379	195.005
4181	237.84	147.415	194.844
4182	237.805	147.45	194.683
4183	237.769	147.486	194.522
4184	237.734	147.521	194.363
4185	237.699	147.556	194.204
4186	237.663	147.591	194.045
4187	237.628	147.626	193.888
4188	237.593	147.661	193.731
4189	237.558	147.696	193.574
4190	237.523	147.73	193.418
4191	237.487	147.764	193.263
4192	237.452	147.798	193.109
4193	237.417	147.832	192.955
4194	237.382	147.866	192.802
4195	237.347	147.899	192.649
4196	237.312	147.933	192.497
4197	237.277	147.966	192.346
4198	237.242	147.999	192.195
4199	237.207	148.032	192.045
4200	237.172	148.065	191.896
4201	237.137	148.097	191.747
4202	237.102	148.13	191.599
4203	237.067	148.162	191.451
4204	237.033	148.194	191.304
4205	236.998	148.226	191.158
4206	236.963	148.258	191.012
4207	236.928	148.29	190.867
4208	236.894	148.321	190.723
4209	236.859	148.353	190.579
4210	236.824	148.384	190.435
4211	236.79	148.415	190.292
4212	236.755	148.446	190.15
4213	236.72	148.476	190.009
4214	236.686	148.507	189.868
4215	236.651	148.538	189.727
4216	236.617	148.568	189.587
4217	236.582	148.598	189.448
4218	236.548	148.628	189.309
4219	236.513	148.658	189.171
4220	236.479	148.688	189.034
4221	236.445	148.717	188.897
4222	236.41	148.747	188.76
4223	236.376	148.776	188.625
4224	236.342	148.805	188.489

010238

4225	236.307	148.834	188.355
4226	236.273	148.863	188.22
4227	236.239	148.892	188.087
4228	236.205	148.921	187.954
4229	236.17	148.949	187.821
4230	236.136	148.977	187.689
4231	236.102	149.005	187.558
4232	236.068	149.034	187.427
4233	236.034	149.061	187.297
4234	236	149.089	187.167
4235	235.966	149.117	187.038
4236	235.932	149.144	186.909
4237	235.898	149.172	186.781
4238	235.864	149.199	186.653
4239	235.83	149.226	186.526
4240	235.796	149.253	186.399
4241	235.762	149.28	186.273
4242	235.728	149.307	186.147
4243	235.694	149.333	186.022
4244	235.661	149.36	185.898
4245	235.627	149.386	185.774
4246	235.593	149.412	185.65
4247	235.559	149.438	185.527
4248	235.525	149.464	185.405
4249	235.492	149.49	185.283
4250	235.458	149.515	185.161
4251	235.424	149.541	185.04
4252	235.391	149.566	184.92
4253	235.357	149.592	184.8
4254	235.324	149.617	184.68
4255	235.29	149.642	184.561
4256	235.256	149.667	184.442
4257	235.223	149.691	184.324
4258	235.189	149.716	184.207
4259	235.156	149.741	184.09
4260	235.122	149.765	183.973
4261	235.089	149.789	183.857
4262	235.056	149.813	183.741
4263	235.022	149.837	183.626
4264	234.989	149.861	183.511
4265	234.956	149.885	183.397
4266	234.922	149.909	183.283
4267	234.889	149.932	183.17
4268	234.856	149.956	183.057
4269	234.822	149.979	182.945
4270	234.789	150.002	182.833
4271	234.756	150.025	182.721
4272	234.723	150.048	182.61
4273	234.69	150.071	182.5
4274	234.656	150.094	182.39
4275	234.623	150.116	182.28
4276	234.59	150.139	182.171
4277	234.557	150.161	182.062
4278	234.524	150.184	181.954
4279	234.491	150.206	181.846

010239

4280	234.458	150.228	181.739
4281	234.425	150.25	181.632
4282	234.392	150.272	181.525
4283	234.359	150.293	181.419
4284	234.326	150.315	181.313
4285	234.293	150.336	181.208
4286	234.26	150.358	181.103
4287	234.228	150.379	180.999
4288	234.195	150.4	180.895
4289	234.162	150.421	180.791
4290	234.129	150.442	180.688
4291	234.096	150.463	180.586
4292	234.064	150.484	180.483
4293	234.031	150.504	180.381
4294	233.998	150.525	180.28
4295	233.965	150.545	180.179
4296	233.933	150.565	180.078
4297	233.9	150.585	179.978
4298	233.867	150.605	179.878
4299	233.835	150.625	179.779
4300	233.802	150.645	179.68
4301	233.77	150.665	179.581
4302	233.737	150.685	179.483
4303	233.705	150.704	179.386
4304	233.672	150.724	179.288
4305	233.64	150.743	179.191
4306	233.607	150.762	179.095
4307	233.575	150.781	178.998
4308	233.542	150.8	178.903
4309	233.51	150.819	178.807
4310	233.477	150.838	178.712
4311	233.445	150.857	178.618
4312	233.413	150.876	178.523
4313	233.38	150.894	178.429
4314	233.348	150.913	178.336
4315	233.316	150.931	178.243
4316	233.284	150.949	178.15
4317	233.251	150.967	178.058
4318	233.219	150.985	177.966
4319	233.187	151.003	177.874
4320	233.155	151.021	177.783
4321	233.122	151.039	177.692
4322	233.09	151.056	177.602
4323	233.058	151.074	177.512
4324	233.026	151.091	177.422
4325	232.994	151.109	177.332
4326	232.962	151.126	177.243
4327	232.93	151.143	177.155
4328	232.898	151.16	177.066
4329	232.866	151.177	176.978
4330	232.834	151.194	176.891
4331	232.802	151.211	176.804
4332	232.77	151.228	176.717
4333	232.738	151.244	176.63
4334	232.706	151.261	176.544

010240

931

4335	232.674	151.277	176.458
4336	232.642	151.294	176.373
4337	232.61	151.31	176.287
4338	232.579	151.326	176.203
4339	232.547	151.342	176.118
4340	232.515	151.358	176.034

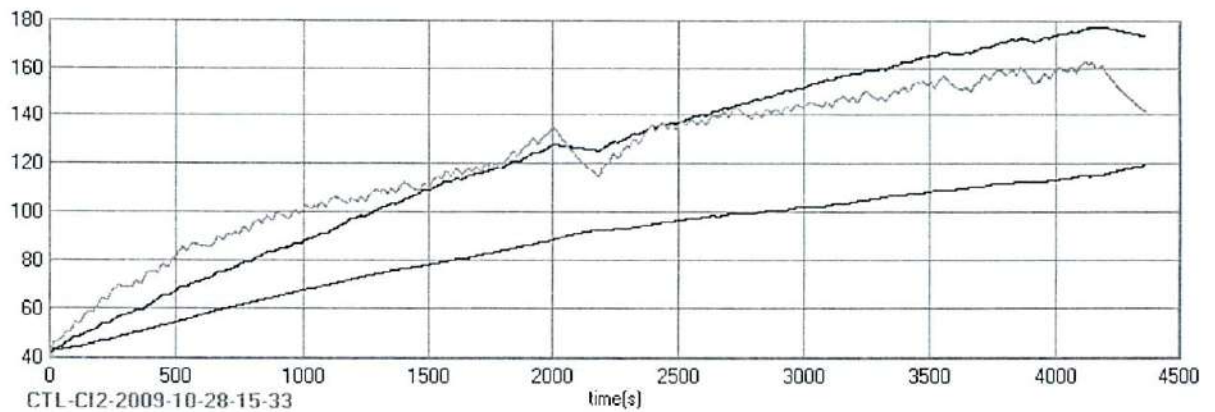
010241



010242

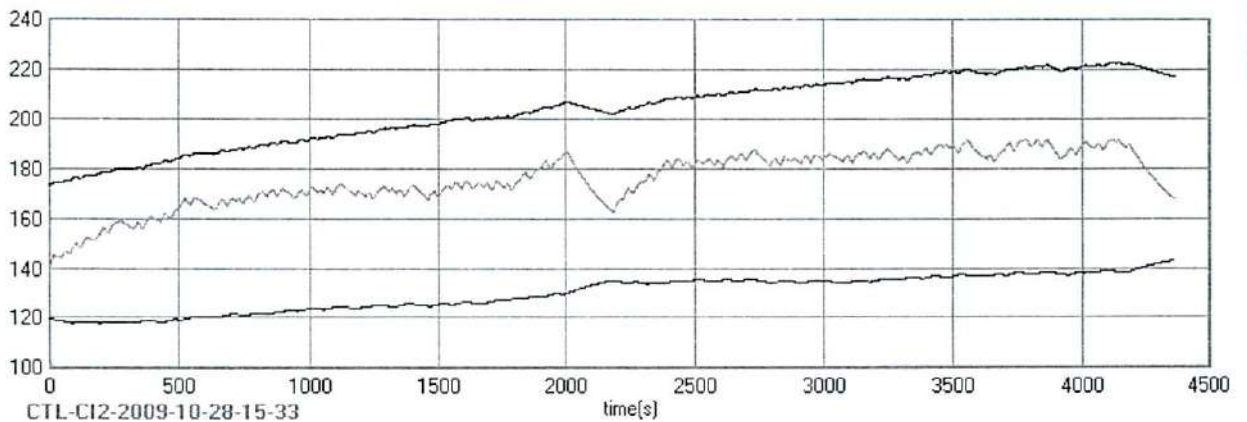
1 Cycle

Trotor(*C)
Tiron_s(*C)
Tw_s(*C)



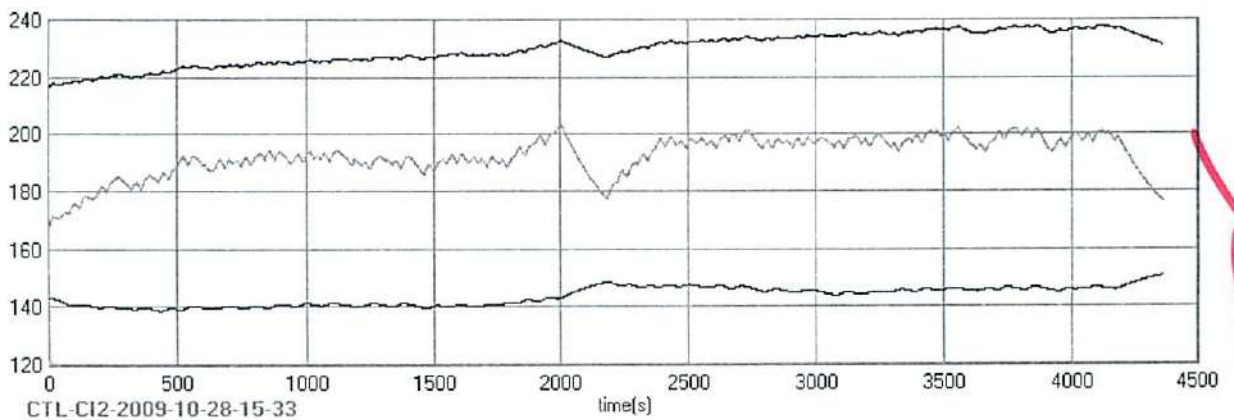
2 Cycle

Trotor(*C)
Tiron_s(*C)
Tw_s(*C)



3 Cycle

Trotor(*C)
Tiron_s(*C)
Tw_s(*C)

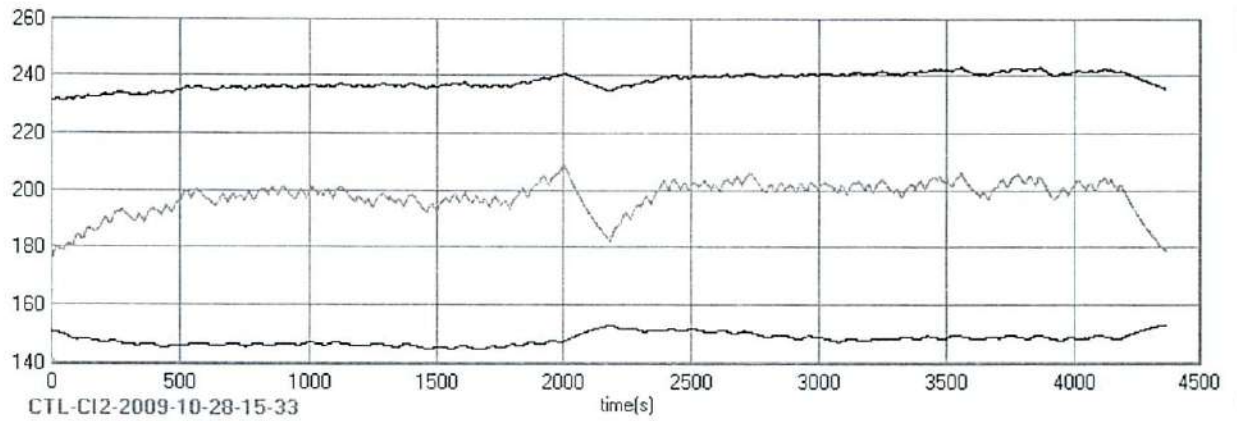


Handwritten signature or mark.

010243

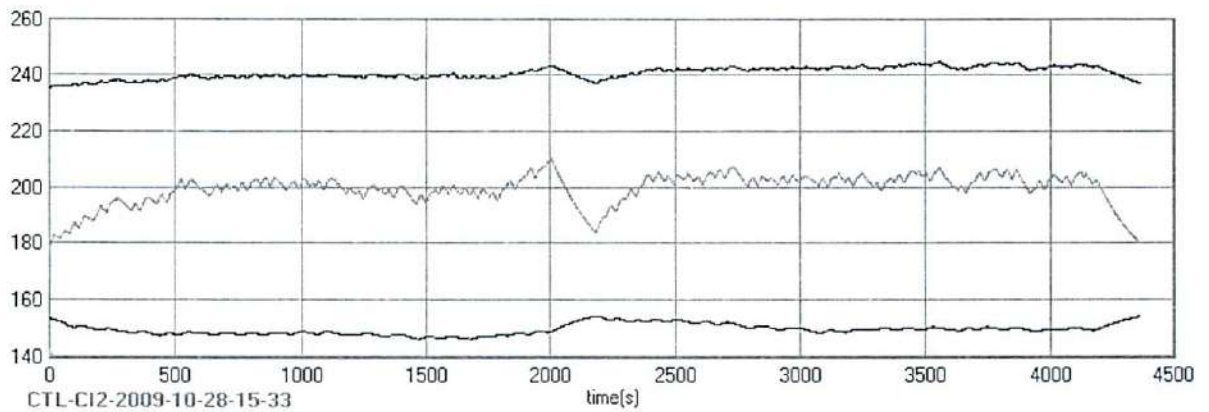
4 Cycle

Trotor(°C)
Tiron_s(°C)
Tw_s(°C)



5 Cycle

Trotor(°C)
Tiron_s(°C)
Tw_s(°C)



Handwritten signature

7C 5M AW4 10p/m² Normal Mode
Traction Motor 4 LCA 2132_IndE

010244

5 Cycle

time(s)	Trotor(°C)	Tiron_s(°C)	Tw_s(°C)
Maximum	244.8	154.3	210.4

time(s)	Trotor(°C)	Tiron_s(°C)	Tw_s(°C)
0	235.488	153.24	178.538
1	235.5	153.236	178.629
2	235.55	153.234	178.882
3	235.597	153.228	179.124
4	235.641	153.218	179.361
5	235.685	153.206	179.598
6	235.734	153.193	179.846
7	235.79	153.18	180.106
8	235.853	153.166	180.379
9	235.919	153.149	180.658
10	235.988	153.13	180.951
11	236.059	153.109	181.267
12	236.123	153.085	181.553
13	236.179	153.059	181.804
14	236.226	153.031	182.033
15	236.266	153	182.241
16	236.303	152.969	182.434
17	236.335	152.935	182.614
18	236.307	152.901	182.562
19	236.28	152.867	182.51
20	236.252	152.832	182.458
21	236.225	152.798	182.406
22	236.202	152.766	182.363
23	236.18	152.734	182.321
24	236.158	152.702	182.281
25	236.136	152.67	182.242
26	236.115	152.638	182.205
27	236.093	152.606	182.166
28	236.072	152.574	182.127
29	236.05	152.543	182.089
30	236.029	152.511	182.05
31	236.007	152.479	182.012
32	235.986	152.447	181.974
33	235.964	152.416	181.935
34	235.942	152.384	181.897
35	235.921	152.352	181.859
36	235.899	152.321	181.82
37	235.877	152.289	181.782
38	235.856	152.258	181.744
39	235.834	152.226	181.703
40	235.811	152.195	181.662
41	235.789	152.164	181.621
42	235.766	152.132	181.58
43	235.744	152.101	181.538
44	235.758	152.068	181.647

45	235.785	152.034	181.812
46	235.809	151.999	181.969
47	235.831	151.963	182.116
48	235.851	151.926	182.253
49	235.87	151.888	182.381
50	235.889	151.85	182.507
51	235.91	151.81	182.632
52	235.932	151.77	182.757
53	235.957	151.728	182.881
54	235.981	151.686	183.006
55	236.005	151.642	183.131
56	236.029	151.598	183.257
57	236.053	151.553	183.383
58	236.077	151.507	183.51
59	236.101	151.46	183.636
60	236.125	151.413	183.762
61	236.149	151.365	183.889
62	236.173	151.316	184.014
63	236.197	151.266	184.138
64	236.204	151.217	184.193
65	236.183	151.169	184.125
66	236.161	151.121	184.056
67	236.139	151.073	183.988
68	236.117	151.025	183.919
69	236.096	150.977	183.851
70	236.074	150.929	183.783
71	236.052	150.882	183.715
72	236.03	150.834	183.647
73	236.008	150.787	183.579
74	235.986	150.739	183.511
75	235.964	150.692	183.444
76	235.943	150.645	183.378
77	235.921	150.598	183.312
78	235.899	150.55	183.246
79	235.878	150.503	183.18
80	235.856	150.456	183.114
81	235.834	150.41	183.047
82	235.911	150.37	183.37
83	235.989	150.334	183.69
84	236.065	150.302	184.003
85	236.137	150.274	184.294
86	236.195	150.25	184.552
87	236.245	150.229	184.791
88	236.292	150.211	185.017
89	236.334	150.196	185.221
90	236.375	150.184	185.414
91	236.418	150.175	185.606
92	236.462	150.17	185.797
93	236.505	150.167	185.988
94	236.561	150.162	186.194
95	236.614	150.158	186.4
96	236.658	150.154	186.587
97	236.696	150.15	186.764
98	236.733	150.149	186.94
99	236.763	150.149	187.091

010245

100	236.765	150.152	187.122
101	236.758	150.157	187.109
102	236.752	150.157	187.096
103	236.719	150.184	186.971
104	236.685	150.21	186.846
105	236.651	150.236	186.721
106	236.617	150.262	186.598
107	236.583	150.288	186.474
108	236.549	150.314	186.351
109	236.516	150.34	186.229
110	236.482	150.366	186.107
111	236.448	150.391	185.986
112	236.414	150.416	185.865
113	236.381	150.441	185.745
114	236.347	150.467	185.625
115	236.313	150.491	185.505
116	236.28	150.516	185.386
117	236.246	150.541	185.268
118	236.213	150.566	185.15
119	236.179	150.59	185.033
120	236.229	150.591	185.26
121	236.279	150.596	185.489
122	236.326	150.598	185.712
123	236.369	150.597	185.926
124	236.413	150.593	186.139
125	236.459	150.589	186.359
126	236.512	150.584	186.59
127	236.572	150.58	186.834
128	236.636	150.573	187.085
129	236.702	150.564	187.345
130	236.772	150.554	187.628
131	236.837	150.54	187.899
132	236.893	150.525	188.134
133	236.941	150.507	188.344
134	236.982	150.488	188.534
135	237.018	150.467	188.709
136	237.051	150.445	188.872
137	237.08	150.422	189.024
138	237.107	150.398	189.168
139	237.131	150.374	189.305
140	237.152	150.348	189.435
141	237.162	150.335	189.496
142	237.141	150.314	189.441
143	237.121	150.292	189.386
144	237.101	150.271	189.333
145	237.081	150.25	189.28
146	237.062	150.228	189.229
147	237.043	150.207	189.183
148	237.025	150.186	189.138
149	237.007	150.164	189.094
150	236.99	150.143	189.051
151	236.972	150.122	189.009
152	236.954	150.1	188.963
153	236.935	150.079	188.917
154	236.917	150.058	188.871

010246

010247

155	236.898	150.036	188.826
156	236.88	150.015	188.78
157	236.861	149.994	188.734
158	236.843	149.973	188.689
159	236.824	149.951	188.643
160	236.806	149.93	188.598
161	236.787	149.909	188.553
162	236.769	149.888	188.508
163	236.751	149.866	188.462
164	236.732	149.845	188.417
165	236.714	149.824	188.372
166	236.695	149.803	188.327
167	236.677	149.781	188.283
168	236.658	149.76	188.238
169	236.639	149.739	188.189
170	236.619	149.718	188.139
171	236.599	149.697	188.088
172	236.579	149.676	188.038
173	236.559	149.655	187.986
174	236.586	149.632	188.134
175	236.611	149.609	188.275
176	236.634	149.584	188.409
177	236.655	149.56	188.535
178	236.674	149.534	188.653
179	236.691	149.508	188.761
180	236.707	149.48	188.862
181	236.724	149.452	188.962
182	236.743	149.423	189.061
183	236.763	149.393	189.16
184	236.785	149.362	189.26
185	236.806	149.329	189.361
186	236.827	149.296	189.463
187	236.848	149.262	189.566
188	236.869	149.227	189.668
189	236.891	149.191	189.772
190	236.908	149.163	189.832
191	236.983	149.138	190.13
192	237.054	149.116	190.409
193	237.116	149.099	190.66
194	237.165	149.084	190.882
195	237.212	149.073	191.095
196	237.254	149.064	191.286
197	237.294	149.058	191.463
198	237.336	149.055	191.634
199	237.379	149.056	191.804
200	237.419	149.059	191.973
201	237.47	149.062	192.152
202	237.523	149.064	192.337
203	237.57	149.066	192.512
204	237.607	149.068	192.667
205	237.646	149.071	192.83
206	237.678	149.076	192.972
207	237.689	149.083	193.026
208	237.682	149.094	192.997
209	237.675	149.099	192.967

010248

210	237.64	149.132	192.818
211	237.606	149.164	192.67
212	237.571	149.196	192.522
213	237.536	149.227	192.375
214	237.502	149.259	192.228
215	237.467	149.29	192.082
216	237.433	149.322	191.937
217	237.398	149.353	191.792
218	237.364	149.384	191.648
219	237.329	149.415	191.505
220	237.295	149.445	191.362
221	237.26	149.476	191.22
222	237.226	149.506	191.078
223	237.192	149.537	190.937
224	237.157	149.567	190.796
225	237.123	149.597	190.656
226	237.089	149.626	190.517
227	237.139	149.63	190.732
228	237.189	149.638	190.946
229	237.237	149.645	191.159
230	237.281	149.649	191.36
231	237.324	149.652	191.557
232	237.368	149.653	191.757
233	237.418	149.654	191.968
234	237.475	149.654	192.19
235	237.538	149.654	192.422
236	237.603	149.652	192.66
237	237.671	149.648	192.918
238	237.738	149.641	193.185
239	237.796	149.632	193.413
240	237.845	149.622	193.613
241	237.887	149.609	193.79
242	237.922	149.594	193.949
243	237.954	149.578	194.094
244	237.981	149.561	194.227
245	238.005	149.542	194.349
246	238.025	149.523	194.462
247	238.043	149.502	194.564
248	238.059	149.481	194.654
249	238.074	149.458	194.738
250	238.092	149.434	194.821
251	238.111	149.408	194.905
252	238.132	149.382	194.989
253	238.152	149.354	195.075
254	238.172	149.325	195.162
255	238.192	149.294	195.25
256	238.212	149.263	195.338
257	238.231	149.231	195.428
258	238.235	149.198	195.445
259	238.149	149.153	195.309
260	238.06	149.107	195.172
261	238.02	149.073	195.056
262	237.994	149.041	194.949
263	237.969	149.01	194.843
264	238.002	148.986	194.961

265	238.076	148.964	195.249
266	238.147	148.947	195.522
267	238.211	148.933	195.766
268	238.259	148.923	195.976
269	238.305	148.916	196.176
270	238.307	148.911	196.188
271	238.281	148.898	196.089
272	238.255	148.886	195.991
273	238.229	148.873	195.892
274	238.202	148.86	195.794
275	238.176	148.848	195.696
276	238.151	148.835	195.603
277	238.126	148.822	195.511
278	238.101	148.809	195.42
279	238.076	148.795	195.33
280	238.052	148.782	195.24
281	238.026	148.769	195.148
282	238.001	148.756	195.057
283	237.976	148.743	194.966
284	237.951	148.729	194.875
285	237.926	148.716	194.784
286	237.901	148.703	194.693
287	237.876	148.689	194.603
288	237.85	148.676	194.513
289	237.825	148.662	194.423
290	237.8	148.649	194.334
291	237.775	148.635	194.244
292	237.75	148.621	194.155
293	237.725	148.608	194.066
294	237.7	148.594	193.978
295	237.675	148.58	193.89
296	237.65	148.566	193.802
297	237.625	148.552	193.713
298	237.6	148.538	193.628
299	237.576	148.525	193.542
300	237.551	148.51	193.457
301	237.526	148.496	193.372
302	237.502	148.482	193.288
303	237.477	148.468	193.202
304	237.452	148.454	193.116
305	237.427	148.44	193.03
306	237.402	148.426	192.944
307	237.377	148.411	192.858
308	237.352	148.397	192.773
309	237.327	148.383	192.688
310	237.302	148.368	192.603
311	237.277	148.354	192.519
312	237.252	148.339	192.434
313	237.228	148.325	192.35
314	237.203	148.31	192.266
315	237.178	148.296	192.182
316	237.153	148.281	192.099
317	237.128	148.266	192.016
318	237.103	148.252	191.933
319	237.077	148.237	191.847

010249

320	237.052	148.222	191.761
321	237.026	148.207	191.673
322	236.999	148.193	191.585
323	236.973	148.178	191.497
324	236.977	148.162	191.539
325	237.001	148.144	191.664
326	237.021	148.126	191.78
327	237.039	148.106	191.886
328	237.085	148.098	192.089
329	237.126	148.092	192.271
330	237.165	148.09	192.439
331	237.206	148.09	192.604
332	237.249	148.094	192.768
333	237.289	148.1	192.931
334	237.342	148.105	193.107
335	237.394	148.109	193.287
336	237.439	148.113	193.452
337	237.476	148.117	193.603
338	237.514	148.123	193.76
339	237.545	148.129	193.891
340	237.55	148.139	193.918
341	237.543	148.15	193.883
342	237.536	148.156	193.849
343	237.501	148.19	193.694
344	237.466	148.224	193.539
345	237.432	148.257	193.386
346	237.397	148.291	193.232
347	237.362	148.324	193.08
348	237.327	148.357	192.928
349	237.292	148.39	192.776
350	237.257	148.423	192.626
351	237.222	148.456	192.476
352	237.188	148.488	192.326
353	237.153	148.521	192.177
354	237.118	148.553	192.029
355	237.083	148.585	191.882
356	237.049	148.617	191.735
357	237.014	148.649	191.588
358	236.98	148.68	191.442
359	236.945	148.712	191.297
360	236.995	148.717	191.508
361	237.044	148.727	191.719
362	237.091	148.735	191.925
363	237.135	148.741	192.119
364	237.177	148.744	192.312
365	237.223	148.747	192.509
366	237.273	148.75	192.717
367	237.331	148.752	192.936
368	237.394	148.754	193.165
369	237.459	148.753	193.399
370	237.527	148.751	193.656
371	237.592	148.746	193.911
372	237.648	148.739	194.128
373	237.695	148.73	194.318
374	237.735	148.719	194.486

010250

941

375	237.769	148.706	194.638
376	237.8	148.693	194.776
377	237.826	148.677	194.902
378	237.849	148.661	195.019
379	237.868	148.644	195.126
380	237.886	148.626	195.222
381	237.901	148.607	195.307
382	237.915	148.586	195.387
383	237.932	148.565	195.466
384	237.95	148.543	195.545
385	237.97	148.519	195.624
386	237.989	148.494	195.705
387	238.009	148.468	195.787
388	238.028	148.442	195.869
389	238.047	148.414	195.953
390	238.066	148.385	196.037
391	238.085	148.356	196.121
392	238.104	148.325	196.206
393	238.123	148.294	196.29
394	238.142	148.263	196.374
395	238.121	148.232	196.289
396	238.094	148.202	196.176
397	238.048	148.168	196.056
398	238.016	148.137	195.941
399	237.99	148.106	195.832
400	237.965	148.076	195.729
401	237.941	148.045	195.634
402	237.921	148.015	195.551
403	237.903	147.984	195.482
404	237.89	147.953	195.431
405	237.877	147.922	195.382
406	237.864	147.891	195.334
407	237.851	147.86	195.286
408	237.838	147.83	195.237
409	237.826	147.799	195.189
410	237.813	147.768	195.141
411	237.8	147.738	195.093
412	237.787	147.707	195.045
413	237.772	147.677	194.988
414	237.752	147.647	194.908
415	237.727	147.617	194.81
416	237.7	147.587	194.701
417	237.643	147.554	194.584
418	237.624	147.532	194.488
419	237.607	147.509	194.401
420	237.591	147.487	194.314
421	237.574	147.465	194.228
422	237.558	147.442	194.143
423	237.541	147.42	194.057
424	237.525	147.397	193.972
425	237.508	147.375	193.887
426	237.492	147.353	193.802
427	237.475	147.33	193.714
428	237.456	147.308	193.622
429	237.513	147.285	193.847

010251

430	237.586	147.264	194.137
431	237.658	147.246	194.421
432	237.729	147.231	194.693
433	237.795	147.221	194.94
434	237.844	147.213	195.153
435	237.89	147.209	195.352
436	237.932	147.206	195.534
437	237.971	147.207	195.697
438	238.01	147.21	195.849
439	238.052	147.217	196.002
440	238.092	147.226	196.153
441	238.136	147.236	196.308
442	238.19	147.244	196.475
443	238.241	147.252	196.642
444	238.279	147.26	196.784
445	238.317	147.269	196.927
446	238.351	147.278	197.062
447	238.373	147.289	197.15
448	238.366	147.302	197.111
449	238.359	147.314	197.066
450	238.323	147.351	196.897
451	238.288	147.389	196.729
452	238.252	147.426	196.561
453	238.216	147.463	196.395
454	238.181	147.5	196.229
455	238.145	147.537	196.063
456	238.11	147.573	195.898
457	238.074	147.609	195.734
458	238.039	147.645	195.571
459	238.004	147.681	195.408
460	237.968	147.717	195.246
461	237.933	147.753	195.085
462	237.898	147.788	194.924
463	237.862	147.824	194.764
464	237.827	147.859	194.605
465	237.792	147.894	194.446
466	237.757	147.929	194.288
467	237.808	147.934	194.493
468	237.858	147.944	194.696
469	237.907	147.957	194.9
470	237.952	147.966	195.091
471	237.995	147.974	195.275
472	238.037	147.98	195.457
473	238.084	147.986	195.649
474	238.138	147.992	195.852
475	238.198	147.999	196.065
476	238.261	148.003	196.286
477	238.327	148.005	196.519
478	238.395	148.006	196.777
479	238.456	148.004	197.004
480	238.507	148.001	197.198
481	238.55	147.995	197.368
482	238.586	147.987	197.518
483	238.618	147.978	197.654
484	238.646	147.968	197.777

010252

485	238.67	147.957	197.89
486	238.691	147.944	197.994
487	238.709	147.931	198.088
488	238.725	147.917	198.173
489	238.74	147.902	198.248
490	238.753	147.886	198.317
491	238.767	147.869	198.386
492	238.784	147.852	198.454
493	238.802	147.833	198.523
494	238.82	147.813	198.592
495	238.838	147.792	198.663
496	238.856	147.771	198.735
497	238.874	147.748	198.808
498	238.892	147.725	198.881
499	238.91	147.701	198.955
500	238.927	147.676	199.03
501	238.945	147.651	199.105
502	238.962	147.625	199.179
503	238.979	147.598	199.254
504	238.996	147.571	199.328
505	239.067	147.552	199.609
506	239.139	147.536	199.886
507	239.21	147.524	200.157
508	239.279	147.515	200.406
509	239.336	147.51	200.626
510	239.382	147.507	200.817
511	239.426	147.508	200.997
512	239.466	147.511	201.155
513	239.504	147.516	201.298
514	239.543	147.525	201.436
515	239.585	147.537	201.574
516	239.622	147.551	201.708
517	239.673	147.564	201.856
518	239.725	147.576	202.009
519	239.77	147.588	202.15
520	239.806	147.599	202.276
521	239.844	147.612	202.41
522	239.875	147.625	202.521
523	239.882	147.64	202.534
524	239.874	147.657	202.476
525	239.868	147.669	202.421
526	239.831	147.71	202.235
527	239.795	147.751	202.05
528	239.759	147.792	201.865
529	239.723	147.833	201.682
530	239.687	147.873	201.499
531	239.651	147.914	201.317
532	239.615	147.954	201.136
533	239.58	147.994	200.955
534	239.544	148.034	200.775
535	239.508	148.073	200.596
536	239.472	148.113	200.418
537	239.436	148.152	200.24
538	239.4	148.191	200.063
539	239.365	148.23	199.887

010253

540	239.329	148.269	199.712
541	239.293	148.307	199.537
542	239.258	148.346	199.363
543	239.308	148.355	199.559
544	239.357	148.37	199.753
545	239.404	148.384	199.942
546	239.448	148.395	200.118
547	239.49	148.405	200.29
548	239.534	148.414	200.466
549	239.584	148.423	200.652
550	239.64	148.432	200.849
551	239.702	148.441	201.054
552	239.766	148.447	201.266
553	239.833	148.453	201.5
554	239.898	148.455	201.736
555	239.953	148.455	201.934
556	240	148.454	202.105
557	240.04	148.45	202.254
558	240.074	148.445	202.387
559	240.103	148.439	202.506
560	240.129	148.431	202.614
561	240.152	148.423	202.713
562	240.172	148.413	202.803
563	240.189	148.403	202.883
564	240.157	148.393	202.753
565	240.125	148.384	202.622
566	240.068	148.362	202.462
567	240.007	148.339	202.299
568	239.964	148.327	202.164
569	239.94	148.326	202.058
570	239.917	148.324	201.953
571	239.894	148.323	201.851
572	239.872	148.322	201.751
573	239.846	148.311	201.648
574	239.892	148.309	201.837
575	239.916	148.308	201.932
576	239.896	148.309	201.84
577	239.876	148.309	201.748
578	239.855	148.31	201.654
579	239.834	148.31	201.558
580	239.812	148.31	201.462
581	239.771	148.299	201.332
582	239.709	148.274	201.167
583	239.667	148.259	201.028
584	239.637	148.25	200.908
585	239.608	148.241	200.79
586	239.578	148.233	200.673
587	239.549	148.223	200.557
588	239.52	148.214	200.442
589	239.491	148.205	200.327
590	239.462	148.196	200.212
591	239.433	148.187	200.098
592	239.404	148.177	199.984
593	239.375	148.168	199.87
594	239.346	148.158	199.757

010254

595	239.317	148.148	199.644
596	239.287	148.139	199.53
597	239.258	148.129	199.416
598	239.229	148.119	199.302
599	239.199	148.109	199.188
600	239.169	148.099	199.073
601	239.165	148.088	199.068
602	239.182	148.076	199.158
603	239.198	148.062	199.237
604	239.243	148.059	199.428
605	239.27	148.059	199.537
606	239.242	148.051	199.42
607	239.213	148.043	199.305
608	239.185	148.035	199.19
609	239.157	148.027	199.076
610	239.129	148.019	198.963
611	239.102	148.011	198.855
612	239.075	148.002	198.748
613	239.049	147.994	198.644
614	239.024	147.985	198.541
615	238.998	147.977	198.441
616	238.973	147.968	198.339
617	238.947	147.959	198.238
618	238.922	147.95	198.138
619	238.896	147.941	198.039
620	238.871	147.933	197.939
621	238.846	147.924	197.84
622	238.82	147.915	197.742
623	238.795	147.905	197.643
624	238.77	147.896	197.545
625	238.744	147.887	197.447
626	238.719	147.878	197.347
627	238.692	147.868	197.243
628	238.665	147.859	197.139
629	238.637	147.85	197.033
630	238.61	147.84	196.926
631	238.582	147.831	196.819
632	238.563	147.821	196.752
633	238.586	147.809	196.863
634	238.606	147.796	196.966
635	238.623	147.782	197.058
636	238.638	147.766	197.139
637	238.65	147.751	197.211
638	238.664	147.734	197.283
639	238.681	147.716	197.354
640	238.699	147.696	197.425
641	238.717	147.676	197.497
642	238.735	147.655	197.571
643	238.753	147.633	197.646
644	238.771	147.61	197.721
645	238.788	147.586	197.797
646	238.806	147.561	197.874
647	238.823	147.535	197.952
648	238.895	147.518	198.232
649	238.967	147.504	198.506

010255

946

650	239.035	147.494	198.759
651	239.093	147.488	198.982
652	239.139	147.485	199.177
653	239.184	147.484	199.363
654	239.223	147.485	199.525
655	239.261	147.49	199.673
656	239.301	147.497	199.816
657	239.343	147.508	199.958
658	239.38	147.521	200.097
659	239.43	147.533	200.248
660	239.482	147.544	200.405
661	239.527	147.554	200.552
662	239.563	147.564	200.681
663	239.601	147.576	200.819
664	239.633	147.588	200.934
665	239.641	147.602	200.956
666	239.633	147.618	200.902
667	239.627	147.629	200.85
668	239.591	147.669	200.67
669	239.555	147.709	200.49
670	239.519	147.749	200.31
671	239.483	147.789	200.132
672	239.447	147.828	199.954
673	239.411	147.868	199.777
674	239.375	147.907	199.601
675	239.339	147.946	199.426
676	239.303	147.984	199.251
677	239.268	148.023	199.077
678	239.232	148.061	198.904
679	239.196	148.099	198.731
680	239.161	148.137	198.559
681	239.125	148.175	198.388
682	239.089	148.213	198.217
683	239.054	148.25	198.048
684	239.018	148.288	197.879
685	239.068	148.296	198.077
686	239.118	148.31	198.274
687	239.165	148.323	198.466
688	239.208	148.334	198.645
689	239.251	148.343	198.821
690	239.295	148.351	199
691	239.344	148.359	199.189
692	239.401	148.367	199.389
693	239.462	148.375	199.598
694	239.526	148.38	199.814
695	239.593	148.384	200.049
696	239.658	148.386	200.291
697	239.714	148.385	200.494
698	239.761	148.383	200.669
699	239.801	148.378	200.821
700	239.835	148.372	200.957
701	239.865	148.365	201.08
702	239.871	148.357	201.109
703	239.843	148.35	200.991
704	239.815	148.343	200.874

010256

947

705	239.787	148.335	200.756
706	239.759	148.328	200.638
707	239.73	148.321	200.52
708	239.702	148.313	200.403
709	239.674	148.305	200.286
710	239.646	148.298	200.169
711	239.617	148.29	200.053
712	239.589	148.282	199.936
713	239.56	148.274	199.818
714	239.515	148.258	199.677
715	239.453	148.231	199.507
716	239.4	148.21	199.358
717	239.424	148.2	199.467
718	239.444	148.188	199.565
719	239.461	148.176	199.652
720	239.475	148.162	199.726
721	239.488	148.147	199.792
722	239.503	148.131	199.858
723	239.52	148.113	199.923
724	239.538	148.094	199.99
725	239.556	148.073	200.058
726	239.573	148.052	200.128
727	239.591	148.029	200.199
728	239.608	148.006	200.271
729	239.625	147.981	200.343
730	239.642	147.956	200.415
731	239.659	147.93	200.488
732	239.676	147.903	200.56
733	239.649	147.878	200.444
734	239.587	147.845	200.304
735	239.525	147.813	200.164
736	239.463	147.78	200.025
737	239.401	147.748	199.886
738	239.339	147.715	199.748
739	239.277	147.682	199.61
740	239.216	147.65	199.472
741	239.154	147.617	199.334
742	239.092	147.584	199.197
743	239.034	147.552	199.061
744	238.976	147.52	198.926
745	238.914	147.487	198.79
746	238.853	147.454	198.654
747	238.792	147.421	198.518
748	238.739	147.39	198.386
749	238.785	147.371	198.562
750	238.857	147.354	198.841
751	238.929	147.34	199.115
752	238.998	147.33	199.373
753	239.06	147.324	199.604
754	239.106	147.32	199.8
755	239.151	147.32	199.986
756	239.192	147.321	200.153
757	239.231	147.326	200.302
758	239.269	147.333	200.442
759	239.311	147.344	200.582

010257

760	239.35	147.356	200.72
761	239.396	147.37	200.864
762	239.449	147.382	201.019
763	239.498	147.393	201.17
764	239.534	147.404	201.298
765	239.572	147.416	201.43
766	239.605	147.428	201.551
767	239.622	147.442	201.609
768	239.614	147.459	201.553
769	239.607	147.472	201.498
770	239.571	147.513	201.315
771	239.535	147.553	201.132
772	239.499	147.594	200.95
773	239.463	147.634	200.769
774	239.427	147.674	200.589
775	239.391	147.714	200.409
776	239.355	147.754	200.23
777	239.319	147.793	200.052
778	239.283	147.833	199.875
779	239.247	147.872	199.698
780	239.212	147.911	199.522
781	239.176	147.95	199.347
782	239.14	147.988	199.172
783	239.104	148.027	198.999
784	239.069	148.065	198.826
785	239.033	148.103	198.653
786	238.997	148.141	198.482
787	239.048	148.149	198.68
788	239.098	148.161	198.874
789	239.147	148.176	199.07
790	239.191	148.188	199.251
791	239.234	148.198	199.425
792	239.276	148.207	199.599
793	239.324	148.215	199.783
794	239.378	148.224	199.977
795	239.439	148.233	200.182
796	239.502	148.24	200.394
797	239.568	148.245	200.62
798	239.636	148.249	200.871
799	239.695	148.249	201.083
800	239.745	148.248	201.263
801	239.786	148.245	201.42
802	239.821	148.24	201.557
803	239.851	148.233	201.679
804	239.877	148.225	201.789
805	239.9	148.217	201.889
806	239.919	148.207	201.98
807	239.936	148.196	202.059
808	239.95	148.184	202.128
809	239.962	148.171	202.187
810	239.976	148.157	202.246
811	239.992	148.142	202.305
812	240.009	148.126	202.364
813	240.027	148.108	202.425
814	240.044	148.089	202.487

010258

815	240.061	148.07	202.551
816	240.078	148.049	202.615
817	240.095	148.027	202.68
818	240.112	148.005	202.746
819	240.128	147.981	202.812
820	240.145	147.957	202.879
821	240.161	147.933	202.945
822	240.138	147.909	202.845
823	240.076	147.878	202.698
824	240.014	147.847	202.552
825	239.951	147.817	202.406
826	239.889	147.786	202.26
827	239.826	147.755	202.115
828	239.764	147.724	201.969
829	239.702	147.693	201.825
830	239.64	147.662	201.68
831	239.578	147.631	201.536
832	239.515	147.6	201.392
833	239.453	147.569	201.249
834	239.391	147.538	201.106
835	239.329	147.506	200.963
836	239.267	147.475	200.821
837	239.205	147.444	200.679
838	239.152	147.414	200.54
839	239.097	147.388	200.407
840	239.168	147.37	200.684
841	239.24	147.356	200.958
842	239.311	147.344	201.225
843	239.379	147.337	201.471
844	239.436	147.333	201.687
845	239.482	147.332	201.876
846	239.526	147.334	202.054
847	239.566	147.338	202.209
848	239.603	147.344	202.349
849	239.643	147.354	202.484
850	239.684	147.367	202.618
851	239.721	147.382	202.748
852	239.771	147.396	202.892
853	239.823	147.409	203.041
854	239.868	147.422	203.18
855	239.904	147.434	203.301
856	239.942	147.448	203.432
857	239.973	147.462	203.541
858	239.982	147.478	203.557
859	239.974	147.496	203.496
860	239.967	147.508	203.437
861	239.931	147.55	203.247
862	239.895	147.593	203.058
863	239.859	147.634	202.87
864	239.822	147.676	202.682
865	239.786	147.718	202.496
866	239.75	147.759	202.31
867	239.714	147.8	202.125
868	239.678	147.841	201.94
869	239.642	147.882	201.756

010259

870	239.606	147.922	201.574
871	239.57	147.963	201.391
872	239.535	148.003	201.21
873	239.499	148.043	201.029
874	239.463	148.083	200.849
875	239.427	148.122	200.67
876	239.391	148.162	200.492
877	239.356	148.201	200.314
878	239.406	148.211	200.508
879	239.455	148.226	200.699
880	239.503	148.241	200.887
881	239.546	148.253	201.06
882	239.588	148.264	201.231
883	239.632	148.274	201.403
884	239.681	148.283	201.586
885	239.737	148.294	201.779
886	239.799	148.303	201.981
887	239.863	148.311	202.19
888	239.93	148.317	202.419
889	239.995	148.321	202.655
890	240.051	148.322	202.853
891	240.099	148.321	203.024
892	240.139	148.319	203.173
893	240.174	148.315	203.306
894	240.205	148.31	203.427
895	240.233	148.305	203.538
896	240.231	148.299	203.524
897	240.209	148.293	203.425
898	240.187	148.288	203.327
899	240.166	148.282	203.235
900	240.146	148.276	203.142
901	240.125	148.271	203.05
902	240.104	148.265	202.959
903	240.084	148.259	202.867
904	240.063	148.253	202.776
905	240.042	148.247	202.685
906	240.022	148.241	202.594
907	240.001	148.235	202.504
908	239.98	148.229	202.413
909	239.96	148.222	202.323
910	239.939	148.216	202.234
911	239.918	148.21	202.144
912	239.898	148.203	202.055
913	239.877	148.197	201.964
914	239.855	148.19	201.871
915	239.832	148.184	201.773
916	239.808	148.177	201.67
917	239.783	148.171	201.563
918	239.756	148.164	201.449
919	239.73	148.158	201.338
920	239.704	148.151	201.225
921	239.677	148.144	201.11
922	239.649	148.137	200.993
923	239.621	148.131	200.875
924	239.592	148.124	200.754

010260

925	239.564	148.117	200.634
926	239.535	148.11	200.514
927	239.506	148.103	200.394
928	239.477	148.096	200.275
929	239.449	148.088	200.156
930	239.42	148.081	200.037
931	239.392	148.074	199.919
932	239.363	148.066	199.801
933	239.334	148.059	199.684
934	239.306	148.051	199.566
935	239.261	148.034	199.425
936	239.212	148.015	199.277
937	239.159	147.994	199.123
938	239.102	147.97	198.963
939	239.04	147.944	198.797
940	239.036	147.934	198.786
941	239.057	147.923	198.89
942	239.075	147.911	198.984
943	239.091	147.898	199.066
944	239.105	147.884	199.138
945	239.118	147.869	199.205
946	239.133	147.852	199.271
947	239.15	147.835	199.338
948	239.168	147.817	199.404
949	239.186	147.797	199.472
950	239.204	147.776	199.542
951	239.221	147.755	199.612
952	239.239	147.732	199.683
953	239.31	147.719	199.955
954	239.379	147.71	200.208
955	239.438	147.703	200.431
956	239.484	147.7	200.625
957	239.529	147.7	200.808
958	239.569	147.702	200.969
959	239.607	147.707	201.115
960	239.646	147.715	201.254
961	239.688	147.726	201.393
962	239.726	147.739	201.529
963	239.775	147.752	201.676
964	239.827	147.764	201.829
965	239.873	147.775	201.975
966	239.909	147.786	202.1
967	239.947	147.798	202.234
968	239.979	147.811	202.349
969	239.99	147.825	202.381
970	239.982	147.843	202.323
971	239.975	147.855	202.268
972	239.939	147.896	202.083
973	239.903	147.937	201.899
974	239.867	147.977	201.716
975	239.831	148.018	201.534
976	239.795	148.058	201.352
977	239.759	148.098	201.171
978	239.723	148.138	200.991
979	239.688	148.178	200.812

010261

952

980	239.652	148.217	200.633
981	239.616	148.257	200.455
982	239.58	148.296	200.278
983	239.544	148.335	200.101
984	239.509	148.374	199.925
985	239.473	148.412	199.75
986	239.437	148.451	199.576
987	239.402	148.489	199.403
988	239.366	148.527	199.23
989	239.417	148.536	199.427
990	239.466	148.55	199.621
991	239.514	148.563	199.813
992	239.557	148.575	199.991
993	239.6	148.585	200.165
994	239.643	148.594	200.34
995	239.692	148.602	200.526
996	239.748	148.611	200.722
997	239.809	148.62	200.927
998	239.873	148.626	201.14
999	239.94	148.631	201.37
1000	240.006	148.633	201.613
1001	240.063	148.634	201.817
1002	240.111	148.632	201.992
1003	240.151	148.628	202.143
1004	240.185	148.622	202.277
1005	240.214	148.616	202.396
1006	240.24	148.607	202.504
1007	240.262	148.598	202.602
1008	240.281	148.588	202.691
1009	240.298	148.577	202.771
1010	240.313	148.565	202.842
1011	240.326	148.553	202.904
1012	240.338	148.54	202.963
1013	240.352	148.525	203.021
1014	240.324	148.513	202.897
1015	240.295	148.5	202.771
1016	240.266	148.487	202.641
1017	240.236	148.474	202.508
1018	240.205	148.46	202.373
1019	240.129	148.429	202.202
1020	240.082	148.413	202.061
1021	240.047	148.401	201.932
1022	240.012	148.389	201.802
1023	239.976	148.378	201.674
1024	239.941	148.366	201.545
1025	239.9	148.351	201.412
1026	239.85	148.332	201.269
1027	239.791	148.309	201.118
1028	239.734	148.286	200.97
1029	239.672	148.261	200.817
1030	239.601	148.231	200.654
1031	239.523	148.198	200.486
1032	239.538	148.182	200.55
1033	239.555	148.164	200.614
1034	239.573	148.146	200.678

010262

1035	239.591	148.126	200.745
1036	239.609	148.106	200.812
1037	239.626	148.084	200.881
1038	239.644	148.061	200.95
1039	239.661	148.038	201.02
1040	239.678	148.013	201.091
1041	239.695	147.988	201.161
1042	239.767	147.973	201.435
1043	239.838	147.961	201.703
1044	239.829	147.953	201.625
1045	239.757	147.922	201.463
1046	239.685	147.892	201.301
1047	239.613	147.861	201.14
1048	239.541	147.83	200.979
1049	239.514	147.814	200.847
1050	239.486	147.797	200.715
1051	239.458	147.781	200.584
1052	239.43	147.764	200.453
1053	239.403	147.747	200.323
1054	239.375	147.73	200.193
1055	239.347	147.713	200.063
1056	239.378	147.705	200.153
1057	239.436	147.699	200.374
1058	239.482	147.696	200.566
1059	239.526	147.696	200.749
1060	239.566	147.698	200.908
1061	239.604	147.703	201.053
1062	239.643	147.712	201.193
1063	239.685	147.723	201.331
1064	239.722	147.737	201.467
1065	239.773	147.749	201.616
1066	239.825	147.761	201.77
1067	239.87	147.772	201.913
1068	239.906	147.783	202.04
1069	239.944	147.795	202.175
1070	239.975	147.808	202.287
1071	239.983	147.822	202.302
1072	239.975	147.839	202.245
1073	239.968	147.851	202.191
1074	239.932	147.892	202.006
1075	239.896	147.932	201.822
1076	239.86	147.973	201.64
1077	239.824	148.013	201.457
1078	239.788	148.054	201.276
1079	239.752	148.094	201.095
1080	239.716	148.134	200.915
1081	239.68	148.173	200.736
1082	239.644	148.213	200.558
1083	239.608	148.252	200.38
1084	239.573	148.291	200.203
1085	239.537	148.33	200.027
1086	239.501	148.369	199.851
1087	239.465	148.407	199.676
1088	239.43	148.446	199.502
1089	239.394	148.484	199.329

010263

1090	239.359	148.522	199.156
1091	239.409	148.531	199.353
1092	239.458	148.546	199.548
1093	239.505	148.559	199.738
1094	239.549	148.57	199.915
1095	239.591	148.58	200.088
1096	239.635	148.589	200.265
1097	239.685	148.597	200.452
1098	239.741	148.606	200.65
1099	239.803	148.614	200.856
1100	239.867	148.62	201.07
1101	239.934	148.625	201.304
1102	239.999	148.627	201.541
1103	240.055	148.627	201.741
1104	240.102	148.625	201.913
1105	240.141	148.621	202.063
1106	240.175	148.615	202.196
1107	240.204	148.608	202.315
1108	240.23	148.6	202.423
1109	240.252	148.591	202.521
1110	240.271	148.581	202.611
1111	240.288	148.57	202.691
1112	240.303	148.558	202.761
1113	240.315	148.545	202.822
1114	240.328	148.531	202.88
1115	240.343	148.516	202.939
1116	240.36	148.5	202.997
1117	240.377	148.484	203.056
1118	240.395	148.466	203.116
1119	240.412	148.447	203.178
1120	240.429	148.426	203.241
1121	240.444	148.406	203.295
1122	240.415	148.386	203.157
1123	240.386	148.367	203.021
1124	240.34	148.343	202.875
1125	240.288	148.317	202.726
1126	240.23	148.289	202.574
1127	240.229	148.268	202.562
1128	240.246	148.246	202.628
1129	240.263	148.222	202.696
1130	240.279	148.198	202.763
1131	240.296	148.173	202.83
1132	240.27	148.148	202.718
1133	240.251	148.132	202.605
1134	240.232	148.115	202.497
1135	240.213	148.098	202.388
1136	240.194	148.081	202.28
1137	240.176	148.064	202.173
1138	240.157	148.047	202.065
1139	240.138	148.03	201.958
1140	240.119	148.013	201.851
1141	240.1	147.996	201.745
1142	240.082	147.979	201.638
1143	240.063	147.962	201.532
1144	240.044	147.945	201.426

010264

1145	240.025	147.928	201.321
1146	240.007	147.911	201.216
1147	239.988	147.893	201.11
1148	239.969	147.876	201.006
1149	239.95	147.859	200.901
1150	239.932	147.842	200.797
1151	239.913	147.824	200.693
1152	239.894	147.807	200.589
1153	239.875	147.789	200.485
1154	239.856	147.772	200.381
1155	239.837	147.755	200.278
1156	239.819	147.737	200.175
1157	239.8	147.719	200.073
1158	239.781	147.702	199.971
1159	239.762	147.684	199.868
1160	239.743	147.667	199.766
1161	239.724	147.649	199.663
1162	239.705	147.631	199.56
1163	239.686	147.614	199.456
1164	239.666	147.596	199.353
1165	239.647	147.578	199.249
1166	239.627	147.56	199.145
1167	239.608	147.543	199.042
1168	239.588	147.525	198.939
1169	239.569	147.507	198.836
1170	239.549	147.489	198.733
1171	239.53	147.471	198.631
1172	239.51	147.453	198.529
1173	239.491	147.435	198.427
1174	239.471	147.417	198.325
1175	239.452	147.399	198.224
1176	239.432	147.381	198.123
1177	239.413	147.363	198.022
1178	239.393	147.345	197.921
1179	239.374	147.327	197.821
1180	239.354	147.309	197.72
1181	239.425	147.289	198.004
1182	239.496	147.272	198.285
1183	239.567	147.258	198.561
1184	239.637	147.247	198.828
1185	239.704	147.239	199.075
1186	239.76	147.234	199.295
1187	239.806	147.232	199.49
1188	239.85	147.231	199.676
1189	239.891	147.233	199.846
1190	239.871	147.237	199.758
1191	239.852	147.24	199.669
1192	239.832	147.242	199.581
1193	239.812	147.245	199.492
1194	239.792	147.248	199.404
1195	239.772	147.251	199.314
1196	239.751	147.253	199.224
1197	239.731	147.256	199.134
1198	239.711	147.258	199.044
1199	239.69	147.261	198.954

010265

956

1200	239.67	147.263	198.865
1201	239.649	147.265	198.777
1202	239.629	147.267	198.689
1203	239.609	147.269	198.601
1204	239.589	147.271	198.513
1205	239.569	147.273	198.426
1206	239.548	147.275	198.339
1207	239.528	147.277	198.252
1208	239.508	147.278	198.166
1209	239.488	147.28	198.08
1210	239.468	147.282	197.994
1211	239.448	147.283	197.908
1212	239.427	147.284	197.823
1213	239.407	147.286	197.736
1214	239.384	147.285	197.645
1215	239.35	147.278	197.533
1216	239.303	147.262	197.4
1217	239.245	147.24	197.245
1218	239.265	147.241	197.328
1219	239.303	147.244	197.48
1220	239.342	147.251	197.628
1221	239.384	147.26	197.775
1222	239.422	147.272	197.92
1223	239.473	147.283	198.079
1224	239.525	147.293	198.242
1225	239.568	147.302	198.39
1226	239.605	147.311	198.526
1227	239.642	147.322	198.666
1228	239.672	147.333	198.783
1229	239.675	147.346	198.787
1230	239.667	147.361	198.738
1231	239.661	147.37	198.691
1232	239.625	147.409	198.517
1233	239.589	147.448	198.343
1234	239.553	147.487	198.17
1235	239.517	147.525	197.998
1236	239.481	147.563	197.827
1237	239.445	147.601	197.656
1238	239.409	147.639	197.486
1239	239.373	147.677	197.317
1240	239.337	147.715	197.149
1241	239.301	147.752	196.981
1242	239.265	147.789	196.814
1243	239.229	147.826	196.647
1244	239.193	147.863	196.481
1245	239.158	147.9	196.316
1246	239.122	147.936	196.152
1247	239.086	147.973	195.988
1248	239.051	148.009	195.825
1249	239.1	148.018	196.026
1250	239.15	148.031	196.226
1251	239.196	148.043	196.42
1252	239.239	148.052	196.602
1253	239.281	148.06	196.781
1254	239.326	148.067	196.966

010266

1255	239.376	148.074	197.161
1256	239.433	148.082	197.366
1257	239.495	148.088	197.581
1258	239.56	148.092	197.802
1259	239.626	148.096	198.045
1260	239.69	148.096	198.286
1261	239.745	148.094	198.488
1262	239.791	148.09	198.664
1263	239.829	148.085	198.818
1264	239.862	148.078	198.956
1265	239.89	148.069	199.081
1266	239.916	148.06	199.195
1267	239.938	148.05	199.301
1268	239.957	148.039	199.399
1269	239.974	148.027	199.488
1270	239.99	148.014	199.57
1271	240.003	148.001	199.644
1272	240.016	147.987	199.712
1273	240.028	147.973	199.777
1274	240.041	147.958	199.843
1275	240.055	147.943	199.908
1276	240.071	147.927	199.972
1277	240.087	147.91	200.037
1278	240.104	147.893	200.102
1279	240.122	147.875	200.167
1280	240.139	147.856	200.234
1281	240.156	147.837	200.301
1282	240.172	147.817	200.37
1283	240.189	147.796	200.439
1284	240.206	147.774	200.508
1285	240.222	147.751	200.579
1286	240.238	147.728	200.65
1287	240.255	147.704	200.721
1288	240.271	147.679	200.792
1289	240.286	147.653	200.862
1290	240.256	147.63	200.736
1291	240.227	147.606	200.61
1292	240.197	147.582	200.485
1293	240.167	147.558	200.359
1294	240.137	147.534	200.234
1295	240.107	147.51	200.108
1296	240.074	147.485	199.98
1297	239.994	147.452	199.837
1298	239.972	147.435	199.723
1299	239.95	147.418	199.611
1300	239.929	147.401	199.502
1301	239.909	147.384	199.396
1302	239.89	147.367	199.294
1303	239.87	147.351	199.193
1304	239.85	147.334	199.089
1305	239.829	147.317	198.981
1306	239.808	147.299	198.871
1307	239.784	147.282	198.758
1308	239.701	147.247	198.616
1309	239.662	147.221	198.489

010267

1310	239.668	147.203	198.498
1311	239.739	147.187	198.778
1312	239.809	147.173	199.053
1313	239.879	147.163	199.316
1314	239.944	147.157	199.556
1315	239.994	147.154	199.762
1316	239.997	147.153	199.774
1317	239.947	147.136	199.627
1318	239.899	147.12	199.485
1319	239.855	147.106	199.347
1320	239.814	147.093	199.213
1321	239.776	147.082	199.083
1322	239.744	147.073	198.962
1323	239.712	147.064	198.841
1324	239.68	147.054	198.722
1325	239.648	147.045	198.603
1326	239.616	147.036	198.483
1327	239.584	147.027	198.364
1328	239.552	147.017	198.245
1329	239.52	147.008	198.126
1330	239.488	146.998	198.008
1331	239.456	146.988	197.89
1332	239.424	146.979	197.772
1333	239.392	146.969	197.655
1334	239.36	146.959	197.539
1335	239.329	146.949	197.426
1336	239.298	146.939	197.312
1337	239.265	146.928	197.193
1338	239.308	146.928	197.381
1339	239.347	146.929	197.545
1340	239.385	146.934	197.696
1341	239.425	146.941	197.843
1342	239.465	146.952	197.988
1343	239.504	146.965	198.132
1344	239.555	146.976	198.289
1345	239.607	146.987	198.45
1346	239.65	146.997	198.597
1347	239.686	147.006	198.731
1348	239.724	147.017	198.871
1349	239.754	147.029	198.987
1350	239.759	147.043	198.996
1351	239.751	147.058	198.945
1352	239.744	147.068	198.897
1353	239.708	147.107	198.721
1354	239.672	147.147	198.546
1355	239.635	147.186	198.371
1356	239.599	147.225	198.197
1357	239.563	147.264	198.024
1358	239.527	147.303	197.852
1359	239.491	147.341	197.68
1360	239.455	147.379	197.509
1361	239.419	147.417	197.339
1362	239.382	147.455	197.17
1363	239.346	147.493	197.001
1364	239.31	147.531	196.833

010268

010269

1365	239.275	147.568	196.666
1366	239.239	147.605	196.499
1367	239.203	147.642	196.333
1368	239.167	147.679	196.168
1369	239.131	147.716	196.003
1370	239.181	147.725	196.203
1371	239.23	147.738	196.401
1372	239.277	147.751	196.595
1373	239.32	147.76	196.775
1374	239.362	147.769	196.953
1375	239.406	147.777	197.136
1376	239.456	147.784	197.33
1377	239.513	147.792	197.534
1378	239.575	147.799	197.747
1379	239.639	147.804	197.966
1380	239.706	147.808	198.208
1381	239.769	147.809	198.447
1382	239.824	147.808	198.648
1383	239.87	147.805	198.824
1384	239.907	147.8	198.976
1385	239.94	147.794	199.112
1386	239.968	147.786	199.235
1387	239.993	147.777	199.346
1388	240.013	147.768	199.447
1389	240.031	147.757	199.539
1390	240.046	147.745	199.619
1391	240.059	147.732	199.688
1392	240.071	147.718	199.753
1393	240.085	147.703	199.817
1394	240.102	147.687	199.882
1395	240.119	147.669	199.947
1396	240.136	147.651	200.014
1397	240.153	147.631	200.082
1398	240.169	147.61	200.151
1399	240.185	147.589	200.221
1400	240.202	147.566	200.292
1401	240.218	147.542	200.363
1402	240.234	147.518	200.434
1403	240.249	147.493	200.506
1404	240.232	147.469	200.437
1405	240.162	147.437	200.293
1406	240.109	147.408	200.157
1407	240.074	147.383	200.028
1408	240.043	147.36	199.901
1409	240.013	147.336	199.774
1410	239.982	147.312	199.648
1411	239.952	147.288	199.522
1412	239.922	147.264	199.397
1413	239.891	147.24	199.272
1414	239.861	147.216	199.147
1415	239.831	147.192	199.022
1416	239.8	147.168	198.898
1417	239.77	147.144	198.774
1418	239.74	147.12	198.65
1419	239.709	147.096	198.527

1420	239.679	147.072	198.404
1421	239.649	147.048	198.281
1422	239.619	147.024	198.158
1423	239.588	146.999	198.036
1424	239.558	146.975	197.914
1425	239.528	146.951	197.793
1426	239.497	146.927	197.671
1427	239.467	146.902	197.55
1428	239.437	146.878	197.429
1429	239.407	146.853	197.309
1430	239.376	146.829	197.188
1431	239.346	146.804	197.068
1432	239.316	146.78	196.949
1433	239.286	146.755	196.829
1434	239.255	146.731	196.71
1435	239.225	146.706	196.591
1436	239.195	146.682	196.473
1437	239.165	146.657	196.354
1438	239.135	146.632	196.236
1439	239.105	146.607	196.119
1440	239.074	146.583	196.001
1441	239.044	146.558	195.884
1442	239.014	146.533	195.767
1443	238.984	146.508	195.65
1444	238.954	146.484	195.534
1445	238.924	146.459	195.419
1446	238.894	146.434	195.307
1447	238.866	146.409	195.198
1448	238.838	146.384	195.092
1449	238.811	146.358	194.991
1450	238.785	146.333	194.895
1451	238.76	146.308	194.802
1452	238.735	146.283	194.709
1453	238.709	146.257	194.616
1454	238.684	146.232	194.522
1455	238.657	146.207	194.424
1456	238.63	146.182	194.322
1457	238.602	146.156	194.217
1458	238.573	146.131	194.11
1459	238.544	146.106	194
1460	238.514	146.081	193.889
1461	238.484	146.056	193.778
1462	238.541	146.037	194.011
1463	238.612	146.021	194.296
1464	238.682	146.008	194.576
1465	238.75	145.999	194.838
1466	238.81	145.993	195.072
1467	238.855	145.99	195.275
1468	238.899	145.989	195.467
1469	238.939	145.991	195.64
1470	238.976	145.995	195.795
1471	239.014	146.002	195.944
1472	239.056	146.012	196.091
1473	239.094	146.025	196.237
1474	239.141	146.037	196.392

010270

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010271

1475	239.193	146.048	196.554
1476	239.24	146.058	196.712
1477	239.275	146.068	196.845
1478	239.313	146.079	196.986
1479	239.345	146.09	197.112
1480	239.36	146.103	197.165
1481	239.351	146.118	197.117
1482	239.344	146.13	197.069
1483	239.307	146.169	196.896
1484	239.271	146.208	196.724
1485	239.235	146.247	196.553
1486	239.198	146.286	196.382
1487	239.162	146.324	196.212
1488	239.125	146.363	196.042
1489	239.089	146.401	195.874
1490	239.053	146.439	195.706
1491	239.016	146.477	195.538
1492	238.98	146.515	195.372
1493	238.944	146.552	195.206
1494	238.908	146.59	195.041
1495	238.872	146.627	194.876
1496	238.836	146.664	194.713
1497	238.799	146.701	194.549
1498	238.763	146.737	194.387
1499	238.727	146.774	194.225
1500	238.778	146.781	194.427
1501	238.827	146.793	194.627
1502	238.875	146.806	194.826
1503	238.919	146.816	195.011
1504	238.961	146.825	195.191
1505	239.004	146.833	195.372
1506	239.052	146.841	195.563
1507	239.106	146.849	195.765
1508	239.167	146.857	195.977
1509	239.23	146.863	196.195
1510	239.296	146.868	196.43
1511	239.362	146.87	196.684
1512	239.419	146.87	196.899
1513	239.467	146.869	197.083
1514	239.507	146.865	197.244
1515	239.541	146.86	197.387
1516	239.571	146.853	197.515
1517	239.596	146.845	197.632
1518	239.617	146.837	197.738
1519	239.636	146.827	197.835
1520	239.651	146.817	197.922
1521	239.665	146.805	197.998
1522	239.676	146.793	198.065
1523	239.688	146.78	198.131
1524	239.703	146.765	198.197
1525	239.719	146.75	198.263
1526	239.735	146.734	198.329
1527	239.752	146.716	198.397
1528	239.768	146.698	198.467
1529	239.784	146.679	198.537

962

962

1530	239.8	146.659	198.608
1531	239.815	146.638	198.68
1532	239.831	146.617	198.752
1533	239.846	146.595	198.824
1534	239.862	146.572	198.896
1535	239.877	146.549	198.969
1536	239.891	146.525	199.041
1537	239.862	146.503	198.923
1538	239.833	146.481	198.805
1539	239.804	146.459	198.688
1540	239.775	146.436	198.572
1541	239.746	146.414	198.455
1542	239.716	146.392	198.339
1543	239.687	146.369	198.223
1544	239.658	146.347	198.106
1545	239.629	146.325	197.991
1546	239.6	146.302	197.875
1547	239.57	146.28	197.759
1548	239.541	146.257	197.644
1549	239.512	146.235	197.53
1550	239.483	146.212	197.415
1551	239.453	146.19	197.301
1552	239.523	146.174	197.581
1553	239.593	146.161	197.857
1554	239.662	146.152	198.127
1555	239.729	146.146	198.373
1556	239.782	146.144	198.587
1557	239.826	146.145	198.777
1558	239.868	146.148	198.955
1559	239.906	146.153	199.109
1560	239.942	146.16	199.252
1561	239.982	146.171	199.391
1562	240.022	146.185	199.53
1563	240.06	146.201	199.667
1564	240.112	146.215	199.818
1565	240.163	146.228	199.973
1566	240.205	146.24	200.112
1567	240.241	146.252	200.239
1568	240.278	146.265	200.372
1569	240.307	146.279	200.48
1570	240.31	146.295	200.474
1571	240.302	146.311	200.418
1572	240.295	146.322	200.365
1573	240.258	146.364	200.181
1574	240.222	146.405	199.999
1575	240.185	146.446	199.817
1576	240.148	146.488	199.636
1577	240.111	146.528	199.455
1578	240.075	146.569	199.275
1579	240.038	146.61	199.096
1580	240.002	146.65	198.918
1581	239.965	146.69	198.741
1582	239.928	146.73	198.564
1583	239.892	146.77	198.388
1584	239.855	146.81	198.213

010272

1585	239.819	146.849	198.038
1586	239.783	146.888	197.865
1587	239.746	146.927	197.692
1588	239.71	146.966	197.519
1589	239.674	147.005	197.348
1590	239.723	147.016	197.543
1591	239.772	147.031	197.737
1592	239.819	147.045	197.925
1593	239.861	147.056	198.1
1594	239.903	147.066	198.273
1595	239.948	147.076	198.451
1596	239.998	147.086	198.639
1597	240.055	147.096	198.838
1598	240.116	147.105	199.046
1599	240.18	147.112	199.26
1600	240.246	147.119	199.498
1601	240.308	147.122	199.728
1602	240.362	147.123	199.92
1603	240.406	147.123	200.087
1604	240.441	147.12	200.23
1605	240.473	147.116	200.359
1606	240.499	147.111	200.473
1607	240.522	147.104	200.577
1608	240.542	147.097	200.671
1609	240.558	147.089	200.756
1610	240.572	147.08	200.829
1611	240.56	147.07	200.791
1612	240.486	147.043	200.62
1613	240.412	147.017	200.45
1614	240.339	146.99	200.28
1615	240.265	146.963	200.11
1616	240.191	146.936	199.941
1617	240.118	146.909	199.773
1618	240.044	146.881	199.605
1619	239.971	146.854	199.437
1620	239.897	146.827	199.27
1621	239.824	146.799	199.103
1622	239.751	146.772	198.937
1623	239.677	146.744	198.771
1624	239.604	146.716	198.605
1625	239.531	146.688	198.44
1626	239.458	146.661	198.276
1627	239.385	146.633	198.112
1628	239.309	146.603	197.946
1629	239.241	146.578	197.788
1630	239.167	146.549	197.624
1631	239.098	146.522	197.465
1632	239.04	146.5	197.317
1633	239.049	146.488	197.376
1634	239.062	146.474	197.443
1635	239.077	146.46	197.51
1636	239.094	146.444	197.577
1637	239.111	146.428	197.645
1638	239.128	146.41	197.714
1639	239.144	146.392	197.784

010273

010274

1640	239.16	146.372	197.855
1641	239.176	146.352	197.927
1642	239.192	146.331	197.999
1643	239.208	146.31	198.073
1644	239.224	146.288	198.146
1645	239.239	146.265	198.219
1646	239.255	146.241	198.292
1647	239.27	146.218	198.365
1648	239.274	146.203	198.365
1649	239.344	146.189	198.642
1650	239.414	146.178	198.914
1651	239.482	146.17	199.172
1652	239.545	146.167	199.403
1653	239.591	146.166	199.598
1654	239.571	146.168	199.517
1655	239.54	146.162	199.399
1656	239.51	146.155	199.283
1657	239.48	146.148	199.169
1658	239.45	146.141	199.057
1659	239.422	146.134	198.951
1660	239.393	146.126	198.847
1661	239.366	146.119	198.744
1662	239.338	146.111	198.641
1663	239.31	146.104	198.541
1664	239.282	146.096	198.437
1665	239.254	146.089	198.333
1666	239.226	146.081	198.23
1667	239.197	146.073	198.127
1668	239.169	146.065	198.024
1669	239.141	146.058	197.921
1670	239.113	146.05	197.819
1671	239.085	146.042	197.717
1672	239.057	146.033	197.616
1673	239.029	146.025	197.515
1674	239	146.017	197.413
1675	238.971	146.009	197.308
1676	238.95	146.009	197.222
1677	238.992	146.011	197.404
1678	239.03	146.015	197.561
1679	239.067	146.022	197.706
1680	239.107	146.032	197.85
1681	239.146	146.045	197.992
1682	239.189	146.059	198.136
1683	239.242	146.071	198.294
1684	239.292	146.083	198.451
1685	239.33	146.094	198.585
1686	239.367	146.106	198.72
1687	239.4	146.118	198.846
1688	239.421	146.131	198.919
1689	239.412	146.148	198.868
1690	239.405	146.161	198.816
1691	239.368	146.201	198.637
1692	239.332	146.242	198.459
1693	239.295	146.282	198.282
1694	239.259	146.322	198.105

1695	239.222	146.362	197.929
1696	239.186	146.401	197.754
1697	239.15	146.441	197.58
1698	239.113	146.48	197.406
1699	239.077	146.519	197.233
1700	239.041	146.558	197.061
1701	239.005	146.597	196.89
1702	238.968	146.635	196.719
1703	238.932	146.673	196.549
1704	238.896	146.712	196.38
1705	238.86	146.749	196.211
1706	238.824	146.787	196.043
1707	238.788	146.825	195.876
1708	238.839	146.832	196.076
1709	238.889	146.844	196.272
1710	238.938	146.859	196.47
1711	238.982	146.871	196.655
1712	239.024	146.881	196.831
1713	239.066	146.89	197.006
1714	239.113	146.899	197.191
1715	239.166	146.908	197.387
1716	239.226	146.917	197.593
1717	239.288	146.925	197.806
1718	239.353	146.931	198.031
1719	239.421	146.935	198.282
1720	239.48	146.937	198.501
1721	239.53	146.937	198.687
1722	239.572	146.934	198.849
1723	239.607	146.931	198.99
1724	239.637	146.925	199.118
1725	239.663	146.919	199.232
1726	239.685	146.911	199.337
1727	239.705	146.903	199.432
1728	239.721	146.894	199.518
1729	239.689	146.885	199.394
1730	239.656	146.877	199.272
1731	239.625	146.869	199.154
1732	239.594	146.86	199.037
1733	239.564	146.851	198.922
1734	239.533	146.843	198.809
1735	239.503	146.834	198.697
1736	239.473	146.825	198.582
1737	239.442	146.816	198.468
1738	239.411	146.807	198.355
1739	239.381	146.798	198.241
1740	239.35	146.788	198.128
1741	239.319	146.779	198.015
1742	239.289	146.77	197.901
1743	239.257	146.761	197.787
1744	239.226	146.751	197.672
1745	239.195	146.742	197.558
1746	239.164	146.732	197.444
1747	239.132	146.722	197.329
1748	239.101	146.713	197.214
1749	239.069	146.703	197.099

010275

960

1750	239.037	146.693	196.983
1751	239.005	146.683	196.868
1752	238.974	146.673	196.752
1753	238.942	146.663	196.637
1754	238.91	146.653	196.523
1755	238.881	146.648	196.421
1756	238.925	146.648	196.61
1757	238.964	146.649	196.775
1758	239.001	146.654	196.927
1759	239.041	146.661	197.074
1760	239.082	146.672	197.221
1761	239.12	146.684	197.366
1762	239.172	146.695	197.525
1763	239.223	146.706	197.686
1764	239.266	146.716	197.835
1765	239.302	146.725	197.97
1766	239.34	146.736	198.111
1767	239.37	146.747	198.227
1768	239.375	146.761	198.237
1769	239.367	146.776	198.187
1770	239.36	146.786	198.14
1771	239.324	146.825	197.966
1772	239.288	146.864	197.792
1773	239.252	146.903	197.619
1774	239.215	146.942	197.447
1775	239.179	146.98	197.276
1776	239.143	147.018	197.105
1777	239.107	147.057	196.935
1778	239.071	147.095	196.766
1779	239.035	147.132	196.597
1780	238.999	147.17	196.429
1781	238.963	147.208	196.262
1782	238.927	147.245	196.095
1783	238.891	147.282	195.929
1784	238.855	147.319	195.764
1785	238.819	147.356	195.6
1786	238.784	147.392	195.436
1787	238.748	147.429	195.273
1788	238.798	147.437	195.473
1789	238.847	147.451	195.673
1790	238.894	147.463	195.867
1791	238.936	147.473	196.048
1792	238.978	147.481	196.227
1793	239.023	147.488	196.411
1794	239.073	147.496	196.605
1795	239.13	147.504	196.81
1796	239.192	147.511	197.024
1797	239.256	147.515	197.245
1798	239.322	147.519	197.487
1799	239.386	147.52	197.728
1800	239.442	147.519	197.933
1801	239.488	147.517	198.112
1802	239.527	147.512	198.269
1803	239.561	147.506	198.41
1804	239.591	147.499	198.538

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1805	239.617	147.49	198.654
1806	239.639	147.481	198.761
1807	239.659	147.471	198.859
1808	239.676	147.46	198.949
1809	239.69	147.448	199.028
1810	239.703	147.435	199.098
1811	239.715	147.421	199.163
1812	239.729	147.407	199.228
1813	239.745	147.391	199.293
1814	239.762	147.375	199.358
1815	239.779	147.357	199.424
1816	239.796	147.339	199.49
1817	239.813	147.321	199.558
1818	239.83	147.301	199.626
1819	239.846	147.282	199.695
1820	239.862	147.262	199.764
1821	239.879	147.241	199.833
1822	239.949	147.23	200.103
1823	240.017	147.222	200.351
1824	240.072	147.219	200.566
1825	240.117	147.218	200.755
1826	240.16	147.22	200.931
1827	240.198	147.224	201.083
1828	240.235	147.231	201.223
1829	240.275	147.242	201.361
1830	240.315	147.255	201.497
1831	240.354	147.27	201.632
1832	240.407	147.284	201.783
1833	240.458	147.296	201.935
1834	240.5	147.308	202.071
1835	240.536	147.32	202.198
1836	240.573	147.333	202.327
1837	240.602	147.347	202.433
1838	240.604	147.363	202.42
1839	240.596	147.379	202.361
1840	240.59	147.39	202.306
1841	240.553	147.432	202.12
1842	240.517	147.474	201.934
1843	240.48	147.515	201.749
1844	240.444	147.556	201.565
1845	240.407	147.597	201.382
1846	240.371	147.638	201.199
1847	240.335	147.679	201.017
1848	240.298	147.719	200.836
1849	240.262	147.76	200.656
1850	240.226	147.8	200.476
1851	240.19	147.84	200.298
1852	240.153	147.879	200.12
1853	240.117	147.919	199.942
1854	240.081	147.958	199.766
1855	240.045	147.997	199.59
1856	240.009	148.036	199.415
1857	239.973	148.075	199.24
1858	240.023	148.086	199.435
1859	240.072	148.102	199.628

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1860	240.118	148.115	199.814
1861	240.161	148.127	199.988
1862	240.203	148.137	200.16
1863	240.248	148.146	200.337
1864	240.299	148.156	200.525
1865	240.356	148.166	200.723
1866	240.418	148.174	200.929
1867	240.483	148.181	201.144
1868	240.549	148.187	201.381
1869	240.612	148.189	201.609
1870	240.665	148.19	201.799
1871	240.71	148.189	201.965
1872	240.747	148.185	202.108
1873	240.779	148.181	202.236
1874	240.807	148.175	202.352
1875	240.832	148.168	202.456
1876	240.853	148.16	202.553
1877	240.871	148.151	202.64
1878	240.887	148.141	202.719
1879	240.902	148.131	202.789
1880	240.914	148.12	202.851
1881	240.925	148.108	202.908
1882	240.938	148.095	202.965
1883	240.953	148.082	203.022
1884	240.968	148.068	203.079
1885	240.985	148.053	203.135
1886	241.002	148.037	203.193
1887	241.018	148.02	203.252
1888	241.034	148.003	203.312
1889	241.051	147.985	203.373
1890	241.067	147.966	203.434
1891	241.083	147.947	203.496
1892	241.099	147.927	203.558
1893	241.114	147.907	203.621
1894	241.13	147.886	203.684
1895	241.145	147.865	203.748
1896	241.161	147.843	203.811
1897	241.176	147.821	203.874
1898	241.191	147.798	203.938
1899	241.206	147.775	204.001
1900	241.202	147.752	203.982
1901	241.177	147.73	203.875
1902	241.154	147.709	203.771
1903	241.223	147.694	204.042
1904	241.293	147.683	204.309
1905	241.363	147.675	204.568
1906	241.428	147.671	204.801
1907	241.479	147.671	204.999
1908	241.523	147.673	205.176
1909	241.565	147.679	205.337
1910	241.602	147.686	205.477
1911	241.638	147.696	205.605
1912	241.678	147.71	205.732
1913	241.718	147.726	205.857
1914	241.759	147.744	205.983

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1915	241.812	147.76	206.123
1916	241.862	147.775	206.265
1917	241.902	147.79	206.387
1918	241.938	147.804	206.505
1919	241.973	147.82	206.621
1920	241.999	147.836	206.704
1921	241.995	147.855	206.659
1922	241.987	147.872	206.592
1923	241.982	147.884	206.529
1924	241.945	147.929	206.33
1925	241.908	147.973	206.132
1926	241.871	148.017	205.935
1927	241.835	148.061	205.738
1928	241.798	148.105	205.542
1929	241.761	148.149	205.347
1930	241.724	148.192	205.153
1931	241.688	148.235	204.96
1932	241.651	148.278	204.767
1933	241.615	148.321	204.575
1934	241.578	148.364	204.384
1935	241.542	148.406	204.194
1936	241.505	148.448	204.005
1937	241.469	148.49	203.816
1938	241.432	148.532	203.628
1939	241.396	148.574	203.441
1940	241.36	148.615	203.255
1941	241.409	148.629	203.443
1942	241.458	148.646	203.63
1943	241.504	148.661	203.807
1944	241.546	148.674	203.973
1945	241.588	148.686	204.136
1946	241.634	148.698	204.307
1947	241.686	148.71	204.489
1948	241.745	148.722	204.681
1949	241.807	148.732	204.879
1950	241.871	148.741	205.089
1951	241.938	148.749	205.321
1952	241.999	148.754	205.537
1953	242.052	148.757	205.717
1954	242.097	148.757	205.874
1955	242.134	148.757	206.012
1956	242.167	148.754	206.135
1957	242.197	148.751	206.246
1958	242.222	148.747	206.347
1959	242.246	148.742	206.441
1960	242.266	148.736	206.527
1961	242.285	148.73	206.608
1962	242.301	148.723	206.682
1963	242.316	148.715	206.749
1964	242.33	148.707	206.809
1965	242.342	148.698	206.863
1966	242.353	148.688	206.91
1967	242.364	148.679	206.958
1968	242.377	148.668	207.006
1969	242.39	148.657	207.053

1970	242.405	148.645	207.101
1971	242.421	148.632	207.148
1972	242.437	148.619	207.196
1973	242.453	148.606	207.245
1974	242.469	148.591	207.294
1975	242.485	148.577	207.344
1976	242.5	148.561	207.395
1977	242.515	148.546	207.447
1978	242.531	148.529	207.499
1979	242.546	148.513	207.552
1980	242.561	148.496	207.604
1981	242.576	148.478	207.658
1982	242.591	148.46	207.711
1983	242.606	148.441	207.766
1984	242.621	148.422	207.82
1985	242.69	148.412	208.082
1986	242.759	148.405	208.336
1987	242.826	148.402	208.567
1988	242.88	148.403	208.766
1989	242.924	148.406	208.939
1990	242.966	148.413	209.1
1991	243.004	148.421	209.238
1992	243.041	148.432	209.362
1993	243.079	148.446	209.481
1994	243.12	148.463	209.598
1995	243.157	148.483	209.713
1996	243.207	148.501	209.842
1997	243.258	148.519	209.975
1998	243.301	148.535	210.097
1999	243.337	148.551	210.204
2000	243.374	148.568	210.321
2001	243.404	148.586	210.414
2002	243.411	148.605	210.405
2003	243.402	148.626	210.329
2004	243.395	148.641	210.258
2005	243.358	148.688	210.049
2006	243.321	148.734	209.841
2007	243.284	148.781	209.633
2008	243.247	148.827	209.427
2009	243.21	148.873	209.221
2010	243.173	148.918	209.016
2011	243.136	148.964	208.812
2012	243.1	149.009	208.609
2013	243.063	149.054	208.406
2014	243.026	149.099	208.205
2015	242.989	149.143	208.004
2016	242.952	149.188	207.804
2017	242.916	149.232	207.605
2018	242.879	149.276	207.407
2019	242.842	149.32	207.21
2020	242.806	149.363	207.013
2021	242.769	149.407	206.818
2022	242.732	149.45	206.623
2023	242.696	149.493	206.429
2024	242.659	149.536	206.235

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2025	242.623	149.578	206.043
2026	242.587	149.621	205.851
2027	242.55	149.663	205.66
2028	242.514	149.705	205.47
2029	242.477	149.746	205.281
2030	242.441	149.788	205.092
2031	242.405	149.829	204.905
2032	242.369	149.871	204.718
2033	242.332	149.912	204.531
2034	242.296	149.952	204.346
2035	242.26	149.993	204.161
2036	242.224	150.033	203.977
2037	242.188	150.074	203.794
2038	242.152	150.114	203.612
2039	242.116	150.153	203.43
2040	242.08	150.193	203.249
2041	242.044	150.233	203.069
2042	242.008	150.272	202.89
2043	241.972	150.311	202.711
2044	241.936	150.35	202.533
2045	241.9	150.388	202.356
2046	241.864	150.427	202.18
2047	241.828	150.465	202.004
2048	241.792	150.504	201.829
2049	241.757	150.541	201.655
2050	241.721	150.579	201.481
2051	241.685	150.617	201.308
2052	241.65	150.654	201.136
2053	241.614	150.692	200.965
2054	241.578	150.729	200.794
2055	241.543	150.766	200.624
2056	241.507	150.802	200.455
2057	241.472	150.839	200.287
2058	241.436	150.875	200.119
2059	241.401	150.911	199.951
2060	241.365	150.948	199.785
2061	241.33	150.983	199.619
2062	241.294	151.019	199.454
2063	241.259	151.055	199.29
2064	241.224	151.09	199.126
2065	241.189	151.125	198.963
2066	241.153	151.16	198.8
2067	241.118	151.195	198.639
2068	241.083	151.23	198.478
2069	241.048	151.264	198.317
2070	241.012	151.298	198.157
2071	240.977	151.333	197.998
2072	240.942	151.367	197.84
2073	240.907	151.4	197.682
2074	240.872	151.434	197.525
2075	240.837	151.468	197.369
2076	240.802	151.501	197.213
2077	240.767	151.534	197.058
2078	240.732	151.567	196.903
2079	240.697	151.6	196.749

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2080	240.662	151.633	196.596
2081	240.627	151.665	196.443
2082	240.593	151.698	196.291
2083	240.558	151.73	196.14
2084	240.523	151.762	195.989
2085	240.488	151.794	195.839
2086	240.453	151.826	195.689
2087	240.419	151.857	195.54
2088	240.384	151.889	195.392
2089	240.349	151.92	195.244
2090	240.315	151.951	195.097
2091	240.28	151.982	194.951
2092	240.246	152.013	194.805
2093	240.211	152.044	194.66
2094	240.176	152.074	194.515
2095	240.142	152.104	194.371
2096	240.107	152.135	194.227
2097	240.073	152.165	194.084
2098	240.039	152.195	193.942
2099	240.004	152.224	193.8
2100	239.97	152.254	193.659
2101	239.935	152.284	193.519
2102	239.901	152.313	193.379
2103	239.867	152.342	193.239
2104	239.833	152.371	193.1
2105	239.798	152.4	192.962
2106	239.764	152.429	192.824
2107	239.73	152.457	192.687
2108	239.696	152.486	192.551
2109	239.661	152.514	192.415
2110	239.627	152.542	192.279
2111	239.593	152.57	192.144
2112	239.559	152.598	192.01
2113	239.525	152.626	191.876
2114	239.491	152.654	191.743
2115	239.457	152.681	191.61
2116	239.423	152.709	191.478
2117	239.389	152.736	191.346
2118	239.355	152.763	191.215
2119	239.321	152.79	191.085
2120	239.287	152.817	190.955
2121	239.253	152.843	190.825
2122	239.22	152.87	190.696
2123	239.186	152.896	190.568
2124	239.152	152.923	190.44
2125	239.118	152.949	190.313
2126	239.084	152.975	190.186
2127	239.051	153.001	190.059
2128	239.017	153.026	189.934
2129	238.983	153.052	189.808
2130	238.95	153.077	189.684
2131	238.916	153.103	189.559
2132	238.882	153.128	189.435
2133	238.849	153.153	189.312
2134	238.815	153.178	189.189

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2135	238.782	153.203	189.067
2136	238.748	153.227	188.945
2137	238.715	153.252	188.824
2138	238.681	153.277	188.703
2139	238.648	153.301	188.583
2140	238.614	153.325	188.463
2141	238.581	153.349	188.344
2142	238.548	153.373	188.225
2143	238.514	153.397	188.107
2144	238.481	153.421	187.989
2145	238.448	153.444	187.872
2146	238.414	153.468	187.755
2147	238.381	153.491	187.638
2148	238.348	153.514	187.522
2149	238.315	153.537	187.407
2150	238.281	153.56	187.292
2151	238.248	153.583	187.178
2152	238.215	153.606	187.063
2153	238.182	153.628	186.95
2154	238.149	153.651	186.837
2155	238.116	153.673	186.724
2156	238.083	153.696	186.612
2157	238.05	153.718	186.5
2158	238.016	153.74	186.389
2159	237.983	153.762	186.278
2160	237.95	153.784	186.168
2161	237.918	153.805	186.058
2162	237.885	153.827	185.948
2163	237.852	153.848	185.839
2164	237.819	153.87	185.73
2165	237.786	153.891	185.622
2166	237.753	153.912	185.515
2167	237.72	153.933	185.407
2168	237.687	153.954	185.3
2169	237.655	153.975	185.194
2170	237.622	153.995	185.088
2171	237.589	154.016	184.982
2172	237.556	154.036	184.877
2173	237.524	154.057	184.773
2174	237.491	154.077	184.668
2175	237.458	154.097	184.564
2176	237.426	154.117	184.461
2177	237.393	154.137	184.358
2178	237.36	154.157	184.255
2179	237.328	154.176	184.153
2180	237.295	154.196	184.051
2181	237.263	154.215	183.95
2182	237.23	154.235	183.849
2183	237.198	154.254	183.749
2184	237.165	154.273	183.648
2185	237.216	154.27	183.887
2186	237.266	154.27	184.128
2187	237.314	154.268	184.367
2188	237.359	154.262	184.595
2189	237.403	154.254	184.823

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2190	237.449	154.244	185.056
2191	237.501	154.233	185.3
2192	237.561	154.222	185.556
2193	237.626	154.209	185.822
2194	237.693	154.193	186.095
2195	237.763	154.176	186.39
2196	237.831	154.155	186.683
2197	237.891	154.132	186.939
2198	237.941	154.107	187.168
2199	237.984	154.08	187.373
2200	238.022	154.051	187.563
2201	238.056	154.021	187.739
2202	238.086	153.989	187.903
2203	238.113	153.956	188.057
2204	238.137	153.922	188.202
2205	238.158	153.887	188.335
2206	238.178	153.85	188.458
2207	238.196	153.813	188.573
2208	238.217	153.774	188.688
2209	238.24	153.733	188.802
2210	238.264	153.691	188.917
2211	238.288	153.648	189.033
2212	238.312	153.603	189.15
2213	238.337	153.556	189.268
2214	238.361	153.508	189.386
2215	238.385	153.459	189.504
2216	238.409	153.409	189.621
2217	238.386	153.364	189.55
2218	238.375	153.322	189.495
2219	238.364	153.281	189.439
2220	238.353	153.239	189.383
2221	238.342	153.197	189.327
2222	238.331	153.156	189.273
2223	238.32	153.114	189.218
2224	238.347	153.073	189.321
2225	238.425	153.032	189.639
2226	238.503	152.994	189.954
2227	238.58	152.96	190.263
2228	238.654	152.929	190.557
2229	238.723	152.902	190.828
2230	238.776	152.878	191.071
2231	238.826	152.857	191.3
2232	238.873	152.839	191.516
2233	238.916	152.824	191.712
2234	238.957	152.812	191.897
2235	239.001	152.803	192.08
2236	239.045	152.797	192.261
2237	239.086	152.795	192.442
2238	239.14	152.791	192.635
2239	239.194	152.788	192.831
2240	239.24	152.784	193.014
2241	239.278	152.782	193.181
2242	239.317	152.781	193.355
2243	239.349	152.782	193.503
2244	239.357	152.786	193.55

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2245	239.35	152.793	193.528
2246	239.343	152.796	193.507
2247	239.31	152.824	193.369
2248	239.276	152.852	193.231
2249	239.242	152.881	193.094
2250	239.208	152.909	192.957
2251	239.174	152.937	192.821
2252	239.14	152.965	192.686
2253	239.107	152.992	192.551
2254	239.073	153.02	192.417
2255	239.039	153.047	192.283
2256	239.006	153.074	192.15
2257	238.972	153.101	192.017
2258	238.938	153.128	191.885
2259	238.905	153.155	191.753
2260	238.871	153.182	191.622
2261	238.837	153.209	191.492
2262	238.804	153.235	191.362
2263	238.77	153.261	191.233
2264	238.821	153.263	191.455
2265	238.871	153.268	191.678
2266	238.919	153.272	191.898
2267	238.963	153.272	192.106
2268	239.007	153.271	192.313
2269	239.053	153.267	192.524
2270	239.104	153.263	192.746
2271	239.163	153.259	192.98
2272	239.227	153.254	193.223
2273	239.293	153.246	193.473
2274	239.362	153.236	193.744
2275	239.429	153.223	194.016
2276	239.488	153.208	194.249
2277	239.537	153.191	194.455
2278	239.579	153.172	194.638
2279	239.615	153.15	194.804
2280	239.647	153.128	194.956
2281	239.675	153.103	195.095
2282	239.699	153.078	195.224
2283	239.72	153.051	195.342
2284	239.739	153.023	195.447
2285	239.755	152.994	195.541
2286	239.773	152.963	195.634
2287	239.794	152.931	195.726
2288	239.816	152.897	195.819
2289	239.838	152.862	195.914
2290	239.86	152.825	196.009
2291	239.881	152.787	196.106
2292	239.903	152.748	196.203
2293	239.925	152.707	196.301
2294	239.947	152.666	196.398
2295	239.968	152.624	196.495
2296	239.955	152.582	196.44
2297	239.939	152.548	196.354
2298	239.923	152.514	196.267
2299	239.908	152.48	196.181

010285

976

2300	239.892	152.446	196.095
2301	239.876	152.413	196.009
2302	239.86	152.379	195.924
2303	239.845	152.345	195.838
2304	239.829	152.311	195.753
2305	239.813	152.278	195.668
2306	239.797	152.244	195.583
2307	239.873	152.21	195.885
2308	239.949	152.179	196.185
2309	240.024	152.152	196.479
2310	240.097	152.128	196.756
2311	240.162	152.109	197.008
2312	240.212	152.092	197.227
2313	240.26	152.079	197.436
2314	240.304	152.069	197.627
2315	240.345	152.061	197.8
2316	240.385	152.056	197.962
2317	240.429	152.056	198.125
2318	240.47	152.058	198.287
2319	240.517	152.061	198.453
2320	240.572	152.064	198.63
2321	240.623	152.066	198.806
2322	240.662	152.068	198.958
2323	240.7	152.072	199.111
2324	240.735	152.077	199.254
2325	240.756	152.084	199.344
2326	240.749	152.094	199.308
2327	240.742	152.103	199.27
2328	240.707	152.137	199.11
2329	240.672	152.171	198.951
2330	240.637	152.204	198.792
2331	240.603	152.237	198.634
2332	240.568	152.271	198.476
2333	240.534	152.304	198.319
2334	240.499	152.337	198.163
2335	240.465	152.369	198.008
2336	240.43	152.402	197.853
2337	240.396	152.434	197.698
2338	240.361	152.467	197.545
2339	240.327	152.499	197.392
2340	240.292	152.531	197.239
2341	240.258	152.562	197.087
2342	240.224	152.594	196.936
2343	240.189	152.625	196.786
2344	240.155	152.657	196.636
2345	240.207	152.66	196.848
2346	240.257	152.668	197.058
2347	240.307	152.677	197.271
2348	240.352	152.683	197.471
2349	240.396	152.687	197.663
2350	240.439	152.688	197.854
2351	240.487	152.69	198.056
2352	240.542	152.691	198.269
2353	240.604	152.692	198.492
2354	240.668	152.69	198.723

010286

2355	240.736	152.686	198.967
2356	240.805	152.681	199.236
2357	240.867	152.672	199.471
2358	240.92	152.661	199.672
2359	240.964	152.648	199.85
2360	241.001	152.634	200.007
2361	241.034	152.617	200.148
2362	241.062	152.599	200.276
2363	241.086	152.579	200.393
2364	241.107	152.558	200.498
2365	241.124	152.536	200.59
2366	241.14	152.512	200.669
2367	241.156	152.487	200.747
2368	241.176	152.46	200.824
2369	241.196	152.432	200.902
2370	241.217	152.401	200.982
2371	241.237	152.369	201.063
2372	241.257	152.336	201.145
2373	241.277	152.302	201.229
2374	241.297	152.266	201.312
2375	241.317	152.23	201.395
2376	241.391	152.201	201.685
2377	241.466	152.175	201.971
2378	241.54	152.154	202.251
2379	241.61	152.136	202.51
2380	241.671	152.122	202.74
2381	241.719	152.111	202.942
2382	241.765	152.103	203.133
2383	241.808	152.098	203.305
2384	241.847	152.095	203.46
2385	241.887	152.096	203.607
2386	241.932	152.1	203.754
2387	241.971	152.107	203.899
2388	242.019	152.115	204.052
2389	242.073	152.122	204.213
2390	242.122	152.128	204.371
2391	242.16	152.135	204.505
2392	242.198	152.142	204.645
2393	242.232	152.151	204.772
2394	242.25	152.162	204.834
2395	242.242	152.177	204.783
2396	242.235	152.188	204.733
2397	242.199	152.226	204.554
2398	242.164	152.263	204.377
2399	242.129	152.301	204.2
2400	242.094	152.339	204.023
2401	242.059	152.376	203.848
2402	242.023	152.413	203.673
2403	241.988	152.45	203.499
2404	241.953	152.487	203.326
2405	241.918	152.524	203.153
2406	241.883	152.56	202.981
2407	241.848	152.596	202.81
2408	241.813	152.632	202.64
2409	241.778	152.668	202.47

010287

2410	241.743	152.704	202.301
2411	241.709	152.74	202.132
2412	241.674	152.775	201.965
2413	241.639	152.81	201.798
2414	241.69	152.816	202.002
2415	241.74	152.827	202.202
2416	241.79	152.839	202.403
2417	241.835	152.848	202.591
2418	241.878	152.855	202.772
2419	241.921	152.86	202.952
2420	241.97	152.865	203.143
2421	242.025	152.869	203.344
2422	242.087	152.874	203.556
2423	242.152	152.875	203.774
2424	242.219	152.875	204.008
2425	242.288	152.873	204.266
2426	242.348	152.868	204.484
2427	242.399	152.861	204.671
2428	242.442	152.852	204.834
2429	242.479	152.84	204.977
2430	242.511	152.828	205.108
2431	242.54	152.814	205.226
2432	242.565	152.799	205.334
2433	242.587	152.782	205.434
2434	242.606	152.765	205.524
2435	242.576	152.749	205.4
2436	242.547	152.732	205.277
2437	242.517	152.715	205.154
2438	242.487	152.699	205.031
2439	242.456	152.682	204.908
2440	242.426	152.665	204.785
2441	242.396	152.648	204.662
2442	242.355	152.626	204.526
2443	242.325	152.609	204.404
2444	242.287	152.588	204.272
2445	242.239	152.563	204.13
2446	242.192	152.537	203.988
2447	242.141	152.51	203.842
2448	242.077	152.475	203.68
2449	242.012	152.441	203.519
2450	241.948	152.407	203.358
2451	241.884	152.373	203.198
2452	241.819	152.338	203.038
2453	241.761	152.307	202.886
2454	241.713	152.28	202.746
2455	241.673	152.258	202.616
2456	241.617	152.227	202.467
2457	241.564	152.198	202.323
2458	241.516	152.171	202.185
2459	241.472	152.146	202.051
2460	241.471	152.127	202.06
2461	241.519	152.116	202.259
2462	241.564	152.109	202.445
2463	241.605	152.104	202.609
2464	241.644	152.103	202.761

010288

2465	241.686	152.105	202.91
2466	241.728	152.11	203.059
2467	241.77	152.118	203.206
2468	241.825	152.124	203.369
2469	241.877	152.13	203.534
2470	241.92	152.136	203.68
2471	241.957	152.142	203.818
2472	241.994	152.15	203.958
2473	242.024	152.159	204.073
2474	242.025	152.172	204.062
2475	242.017	152.184	204.013
2476	242.011	152.192	203.966
2477	241.976	152.23	203.79
2478	241.941	152.267	203.615
2479	241.906	152.304	203.441
2480	241.871	152.341	203.267
2481	241.836	152.378	203.095
2482	241.801	152.414	202.922
2483	241.766	152.451	202.751
2484	241.731	152.487	202.58
2485	241.696	152.523	202.41
2486	241.661	152.559	202.241
2487	241.626	152.594	202.072
2488	241.591	152.63	201.904
2489	241.556	152.665	201.737
2490	241.521	152.7	201.57
2491	241.487	152.735	201.404
2492	241.452	152.77	201.239
2493	241.417	152.805	201.074
2494	241.467	152.813	201.277
2495	241.517	152.826	201.48
2496	241.564	152.835	201.674
2497	241.607	152.842	201.858
2498	241.65	152.848	202.04
2499	241.697	152.852	202.228
2500	241.749	152.856	202.427
2501	241.809	152.86	202.637
2502	241.872	152.862	202.855
2503	241.938	152.862	203.082
2504	242.007	152.861	203.332
2505	242.071	152.856	203.568
2506	242.125	152.849	203.766
2507	242.171	152.84	203.939
2508	242.209	152.828	204.089
2509	242.242	152.815	204.224
2510	242.271	152.8	204.344
2511	242.296	152.784	204.453
2512	242.317	152.767	204.551
2513	242.303	152.749	204.502
2514	242.281	152.74	204.402
2515	242.259	152.731	204.303
2516	242.237	152.722	204.203
2517	242.215	152.713	204.104
2518	242.193	152.704	204.006
2519	242.171	152.695	203.907

010289

980

2520	242.149	152.686	203.809
2521	242.127	152.677	203.711
2522	242.105	152.667	203.614
2523	242.083	152.658	203.517
2524	242.061	152.649	203.42
2525	242.039	152.639	203.323
2526	242.017	152.63	203.226
2527	241.996	152.62	203.131
2528	241.974	152.61	203.036
2529	241.952	152.601	202.941
2530	241.93	152.591	202.846
2531	241.908	152.581	202.751
2532	241.924	152.561	202.831
2533	241.939	152.539	202.904
2534	241.954	152.516	202.975
2535	241.972	152.492	203.046
2536	241.992	152.467	203.117
2537	242.012	152.44	203.189
2538	242.032	152.412	203.263
2539	242.051	152.383	203.337
2540	242.071	152.352	203.413
2541	242.09	152.321	203.489
2542	242.109	152.289	203.566
2543	242.128	152.256	203.643
2544	242.148	152.222	203.72
2545	242.166	152.188	203.797
2546	242.185	152.152	203.874
2547	242.158	152.119	203.75
2548	242.231	152.092	204.034
2549	242.305	152.069	204.315
2550	242.378	152.05	204.589
2551	242.448	152.035	204.841
2552	242.506	152.023	205.063
2553	242.488	152.015	204.976
2554	242.456	151.998	204.846
2555	242.424	151.981	204.718
2556	242.392	151.964	204.59
2557	242.361	151.946	204.464
2558	242.33	151.929	204.343
2559	242.301	151.912	204.224
2560	242.271	151.894	204.105
2561	242.241	151.876	203.987
2562	242.211	151.859	203.868
2563	242.181	151.841	203.749
2564	242.151	151.824	203.63
2565	242.121	151.806	203.512
2566	242.09	151.788	203.394
2567	242.06	151.77	203.276
2568	242.03	151.752	203.159
2569	242	151.734	203.041
2570	241.97	151.716	202.925
2571	241.94	151.698	202.808
2572	241.91	151.68	202.692
2573	241.88	151.662	202.576
2574	241.85	151.644	202.461

010290

2575	241.82	151.625	202.346
2576	241.79	151.607	202.231
2577	241.76	151.588	202.115
2578	241.729	151.57	201.999
2579	241.722	151.56	201.968
2580	241.769	151.552	202.162
2581	241.811	151.547	202.338
2582	241.851	151.545	202.495
2583	241.89	151.546	202.643
2584	241.934	151.551	202.791
2585	241.974	151.559	202.937
2586	242.022	151.567	203.091
2587	242.075	151.574	203.253
2588	242.124	151.58	203.411
2589	242.16	151.587	203.544
2590	242.198	151.595	203.685
2591	242.232	151.604	203.811
2592	242.247	151.615	203.866
2593	242.239	151.629	203.816
2594	242.232	151.64	203.767
2595	242.197	151.678	203.59
2596	242.161	151.716	203.414
2597	242.126	151.754	203.238
2598	242.091	151.791	203.063
2599	242.055	151.829	202.889
2600	242.02	151.866	202.716
2601	241.985	151.903	202.543
2602	241.949	151.94	202.371
2603	241.914	151.976	202.2
2604	241.879	152.013	202.03
2605	241.844	152.049	201.86
2606	241.809	152.085	201.691
2607	241.773	152.121	201.522
2608	241.738	152.157	201.354
2609	241.703	152.192	201.187
2610	241.668	152.228	201.021
2611	241.633	152.263	200.855
2612	241.684	152.269	201.058
2613	241.734	152.28	201.26
2614	241.783	152.292	201.461
2615	241.828	152.301	201.648
2616	241.871	152.307	201.829
2617	241.914	152.313	202.011
2618	241.963	152.317	202.203
2619	242.019	152.322	202.405
2620	242.081	152.327	202.618
2621	242.145	152.329	202.838
2622	242.212	152.329	203.074
2623	242.281	152.327	203.33
2624	242.34	152.322	203.546
2625	242.39	152.315	203.732
2626	242.432	152.306	203.894
2627	242.468	152.295	204.037
2628	242.499	152.283	204.165
2629	242.526	152.269	204.281

010291

2630	242.55	152.254	204.387
2631	242.57	152.238	204.483
2632	242.587	152.22	204.567
2633	242.603	152.202	204.641
2634	242.616	152.182	204.706
2635	242.632	152.161	204.771
2636	242.649	152.139	204.836
2637	242.668	152.116	204.902
2638	242.687	152.091	204.968
2639	242.706	152.065	205.037
2640	242.725	152.038	205.106
2641	242.743	152.009	205.177
2642	242.762	151.98	205.248
2643	242.78	151.95	205.319
2644	242.798	151.919	205.391
2645	242.816	151.887	205.463
2646	242.834	151.854	205.534
2647	242.733	151.807	205.375
2648	242.633	151.761	205.217
2649	242.533	151.714	205.059
2650	242.435	151.667	204.902
2651	242.338	151.622	204.746
2652	242.242	151.576	204.591
2653	242.14	151.528	204.433
2654	242.063	151.486	204.286
2655	242.011	151.45	204.149
2656	241.983	151.418	204.022
2657	241.955	151.387	203.896
2658	241.928	151.355	203.771
2659	241.9	151.324	203.647
2660	241.872	151.292	203.523
2661	241.845	151.261	203.4
2662	241.818	151.229	203.278
2663	241.817	151.205	203.246
2664	241.89	151.181	203.528
2665	241.963	151.161	203.806
2666	242.034	151.145	204.072
2667	242.102	151.133	204.315
2668	242.155	151.124	204.523
2669	242.201	151.119	204.712
2670	242.244	151.116	204.886
2671	242.284	151.116	205.039
2672	242.322	151.119	205.179
2673	242.363	151.125	205.319
2674	242.404	151.135	205.457
2675	242.447	151.146	205.596
2676	242.501	151.156	205.749
2677	242.552	151.165	205.904
2678	242.593	151.174	206.038
2679	242.63	151.184	206.168
2680	242.666	151.195	206.296
2681	242.693	151.207	206.393
2682	242.691	151.222	206.362
2683	242.683	151.237	206.305
2684	242.678	151.246	206.251

010292

983

2685	242.642	151.286	206.064
2686	242.606	151.326	205.878
2687	242.571	151.367	205.693
2688	242.535	151.406	205.509
2689	242.499	151.446	205.325
2690	242.464	151.486	205.142
2691	242.428	151.525	204.96
2692	242.392	151.564	204.779
2693	242.357	151.603	204.598
2694	242.321	151.642	204.418
2695	242.286	151.68	204.239
2696	242.25	151.719	204.06
2697	242.215	151.757	203.883
2698	242.179	151.795	203.706
2699	242.144	151.833	203.53
2700	242.109	151.87	203.354
2701	242.073	151.908	203.179
2702	242.123	151.918	203.376
2703	242.173	151.933	203.572
2704	242.219	151.945	203.758
2705	242.262	151.954	203.934
2706	242.305	151.962	204.108
2707	242.351	151.969	204.29
2708	242.404	151.975	204.482
2709	242.463	151.982	204.684
2710	242.527	151.987	204.894
2711	242.592	151.99	205.114
2712	242.661	151.993	205.358
2713	242.723	151.991	205.583
2714	242.776	151.987	205.771
2715	242.821	151.981	205.935
2716	242.858	151.974	206.077
2717	242.891	151.964	206.204
2718	242.919	151.953	206.318
2719	242.944	151.941	206.421
2720	242.965	151.928	206.515
2721	242.983	151.913	206.598
2722	242.999	151.898	206.671
2723	243.013	151.881	206.734
2724	243.026	151.864	206.793
2725	243.042	151.845	206.851
2726	243.059	151.825	206.909
2727	243.078	151.804	206.968
2728	243.096	151.782	207.028
2729	243.114	151.758	207.09
2730	243.132	151.734	207.153
2731	243.15	151.708	207.217
2732	243.168	151.681	207.281
2733	243.185	151.653	207.347
2734	243.203	151.624	207.413
2735	243.22	151.595	207.478
2736	243.198	151.566	207.376
2737	243.177	151.544	207.253
2738	243.157	151.523	207.13
2739	243.107	151.493	206.992

010293

2740	243.019	151.452	206.834
2741	242.958	151.416	206.687
2742	242.929	151.387	206.553
2743	242.9	151.358	206.421
2744	242.872	151.329	206.292
2745	242.844	151.3	206.162
2746	242.816	151.271	206.033
2747	242.787	151.242	205.904
2748	242.759	151.213	205.776
2749	242.731	151.184	205.648
2750	242.703	151.155	205.52
2751	242.675	151.126	205.392
2752	242.647	151.096	205.265
2753	242.618	151.067	205.138
2754	242.59	151.038	205.011
2755	242.562	151.009	204.884
2756	242.534	150.979	204.758
2757	242.506	150.95	204.632
2758	242.477	150.921	204.507
2759	242.449	150.891	204.381
2760	242.421	150.862	204.256
2761	242.393	150.833	204.131
2762	242.364	150.803	204.007
2763	242.336	150.774	203.883
2764	242.308	150.745	203.759
2765	242.28	150.715	203.635
2766	242.252	150.686	203.512
2767	242.223	150.656	203.388
2768	242.195	150.627	203.266
2769	242.167	150.597	203.143
2770	242.139	150.568	203.021
2771	242.111	150.538	202.899
2772	242.082	150.509	202.777
2773	242.054	150.479	202.656
2774	242.026	150.45	202.535
2775	241.998	150.42	202.414
2776	241.97	150.391	202.293
2777	241.941	150.361	202.173
2778	241.913	150.332	202.052
2779	241.885	150.302	201.932
2780	241.857	150.272	201.813
2781	241.828	150.243	201.694
2782	241.801	150.213	201.576
2783	241.773	150.183	201.46
2784	241.745	150.154	201.344
2785	241.718	150.124	201.229
2786	241.691	150.094	201.116
2787	241.664	150.065	201.003
2788	241.637	150.035	200.891
2789	241.609	150.005	200.779
2790	241.582	149.975	200.667
2791	241.555	149.945	200.555
2792	241.528	149.916	200.444
2793	241.501	149.886	200.333
2794	241.553	149.863	200.535

010294

2795	241.625	149.843	200.818
2796	241.697	149.826	201.094
2797	241.766	149.813	201.351
2798	241.825	149.804	201.579
2799	241.871	149.798	201.776
2800	241.916	149.795	201.963
2801	241.956	149.795	202.128
2802	241.994	149.797	202.277
2803	242.033	149.802	202.42
2804	242.075	149.811	202.563
2805	242.113	149.822	202.703
2806	242.162	149.833	202.854
2807	242.215	149.843	203.011
2808	242.261	149.852	203.16
2809	242.297	149.861	203.289
2810	242.335	149.871	203.426
2811	242.366	149.883	203.544
2812	242.377	149.896	203.576
2813	242.369	149.912	203.522
2814	242.362	149.924	203.469
2815	242.326	149.964	203.287
2816	242.29	150.003	203.106
2817	242.254	150.043	202.926
2818	242.218	150.083	202.746
2819	242.182	150.122	202.568
2820	242.146	150.161	202.39
2821	242.11	150.2	202.212
2822	242.074	150.239	202.036
2823	242.038	150.277	201.86
2824	242.002	150.315	201.685
2825	241.966	150.354	201.51
2826	241.93	150.392	201.337
2827	241.894	150.429	201.164
2828	241.858	150.467	200.991
2829	241.822	150.505	200.82
2830	241.787	150.542	200.649
2831	241.751	150.579	200.479
2832	241.802	150.587	200.679
2833	241.851	150.6	200.876
2834	241.899	150.613	201.071
2835	241.943	150.623	201.253
2836	241.985	150.631	201.43
2837	242.029	150.639	201.608
2838	242.078	150.646	201.797
2839	242.134	150.653	201.997
2840	242.196	150.659	202.206
2841	242.26	150.664	202.422
2842	242.327	150.666	202.657
2843	242.393	150.667	202.903
2844	242.45	150.665	203.11
2845	242.497	150.661	203.287
2846	242.537	150.655	203.442
2847	242.572	150.647	203.58
2848	242.602	150.638	203.704
2849	242.628	150.628	203.817

010295

2850	242.651	150.616	203.92
2851	242.671	150.604	204.015
2852	242.689	150.591	204.101
2853	242.657	150.579	203.975
2854	242.625	150.566	203.849
2855	242.594	150.554	203.725
2856	242.562	150.541	203.601
2857	242.531	150.529	203.477
2858	242.5	150.516	203.354
2859	242.468	150.504	203.232
2860	242.437	150.491	203.109
2861	242.405	150.478	202.986
2862	242.374	150.465	202.863
2863	242.342	150.452	202.741
2864	242.311	150.439	202.619
2865	242.279	150.426	202.497
2866	242.247	150.413	202.375
2867	242.216	150.4	202.253
2868	242.184	150.386	202.131
2869	242.161	150.372	202.046
2870	242.175	150.356	202.121
2871	242.187	150.34	202.187
2872	242.201	150.322	202.253
2873	242.216	150.303	202.319
2874	242.234	150.283	202.385
2875	242.251	150.261	202.452
2876	242.269	150.239	202.52
2877	242.286	150.216	202.59
2878	242.303	150.192	202.66
2879	242.32	150.167	202.731
2880	242.337	150.141	202.802
2881	242.354	150.115	202.874
2882	242.371	150.088	202.946
2883	242.388	150.061	203.018
2884	242.404	150.034	203.09
2885	242.42	150.006	203.162
2886	242.437	149.978	203.233
2887	242.453	149.95	203.304
2888	242.469	149.922	203.376
2889	242.466	149.893	203.367
2890	242.438	149.866	203.248
2891	242.409	149.839	203.124
2892	242.379	149.812	202.997
2893	242.349	149.785	202.87
2894	242.319	149.758	202.744
2895	242.289	149.731	202.618
2896	242.26	149.704	202.493
2897	242.23	149.677	202.369
2898	242.2	149.649	202.244
2899	242.17	149.622	202.12
2900	242.141	149.595	201.995
2901	242.111	149.568	201.871
2902	242.081	149.54	201.747
2903	242.051	149.513	201.624
2904	242.021	149.486	201.498

010296

987

2905	241.939	149.449	201.355
2906	241.917	149.429	201.243
2907	241.896	149.409	201.133
2908	241.875	149.389	201.027
2909	241.856	149.368	200.926
2910	241.836	149.348	200.825
2911	241.817	149.328	200.726
2912	241.835	149.308	200.784
2913	241.906	149.288	201.066
2914	241.977	149.271	201.343
2915	242.047	149.257	201.615
2916	242.115	149.247	201.864
2917	242.171	149.241	202.084
2918	242.216	149.237	202.277
2919	242.26	149.236	202.46
2920	242.299	149.238	202.619
2921	242.337	149.242	202.764
2922	242.376	149.249	202.904
2923	242.417	149.26	203.043
2924	242.454	149.273	203.18
2925	242.504	149.285	203.329
2926	242.556	149.296	203.484
2927	242.601	149.307	203.627
2928	242.637	149.317	203.754
2929	242.675	149.329	203.89
2930	242.705	149.341	204.002
2931	242.713	149.355	204.017
2932	242.705	149.372	203.96
2933	242.698	149.383	203.906
2934	242.662	149.424	203.72
2935	242.625	149.465	203.536
2936	242.589	149.506	203.353
2937	242.552	149.547	203.17
2938	242.516	149.587	202.988
2939	242.479	149.627	202.806
2940	242.443	149.667	202.626
2941	242.407	149.707	202.446
2942	242.37	149.746	202.267
2943	242.334	149.786	202.089
2944	242.298	149.825	201.911
2945	242.262	149.864	201.734
2946	242.225	149.903	201.558
2947	242.189	149.942	201.383
2948	242.153	149.98	201.208
2949	242.117	150.018	201.034
2950	242.081	150.057	200.861
2951	242.131	150.066	201.059
2952	242.181	150.08	201.254
2953	242.228	150.093	201.445
2954	242.271	150.104	201.622
2955	242.314	150.113	201.797
2956	242.358	150.122	201.974
2957	242.407	150.13	202.162
2958	242.464	150.138	202.36
2959	242.525	150.146	202.567

010297

2960	242.589	150.151	202.781
2961	242.656	150.155	203.015
2962	242.721	150.157	203.258
2963	242.779	150.156	203.464
2964	242.827	150.154	203.643
2965	242.869	150.15	203.802
2966	242.905	150.144	203.943
2967	242.937	150.138	204.072
2968	242.966	150.13	204.19
2969	242.985	150.121	204.274
2970	242.961	150.114	204.171
2971	242.937	150.106	204.073
2972	242.915	150.098	203.977
2973	242.892	150.091	203.882
2974	242.869	150.083	203.788
2975	242.846	150.075	203.693
2976	242.823	150.067	203.599
2977	242.801	150.059	203.505
2978	242.778	150.051	203.411
2979	242.755	150.043	203.318
2980	242.732	150.035	203.225
2981	242.71	150.026	203.132
2982	242.687	150.018	203.039
2983	242.664	150.01	202.947
2984	242.642	150.001	202.855
2985	242.619	149.993	202.763
2986	242.596	149.984	202.671
2987	242.574	149.976	202.58
2988	242.551	149.967	202.489
2989	242.527	149.958	202.393
2990	242.503	149.95	202.296
2991	242.479	149.941	202.199
2992	242.454	149.932	202.101
2993	242.429	149.923	202.002
2994	242.453	149.912	202.111
2995	242.474	149.901	202.212
2996	242.493	149.889	202.307
2997	242.509	149.876	202.395
2998	242.525	149.863	202.475
2999	242.538	149.848	202.548
3000	242.55	149.834	202.614
3001	242.562	149.818	202.677
3002	242.575	149.802	202.74
3003	242.59	149.786	202.803
3004	242.605	149.768	202.866
3005	242.622	149.75	202.928
3006	242.639	149.732	202.992
3007	242.655	149.712	203.055
3008	242.672	149.692	203.12
3009	242.689	149.672	203.185
3010	242.705	149.65	203.252
3011	242.721	149.629	203.318
3012	242.737	149.607	203.385
3013	242.753	149.584	203.452
3014	242.769	149.561	203.52

010298

3015	242.785	149.537	203.588
3016	242.801	149.513	203.656
3017	242.817	149.489	203.724
3018	242.832	149.464	203.793
3019	242.848	149.439	203.861
3020	242.863	149.414	203.929
3021	242.878	149.388	203.997
3022	242.893	149.362	204.064
3023	242.908	149.336	204.132
3024	242.893	149.311	204.072
3025	242.875	149.286	203.997
3026	242.857	149.26	203.924
3027	242.839	149.235	203.853
3028	242.823	149.21	203.784
3029	242.806	149.185	203.716
3030	242.789	149.16	203.648
3031	242.773	149.135	203.582
3032	242.756	149.11	203.517
3033	242.74	149.084	203.452
3034	242.724	149.059	203.386
3035	242.707	149.034	203.32
3036	242.691	149.009	203.253
3037	242.674	148.984	203.186
3038	242.657	148.959	203.12
3039	242.641	148.934	203.055
3040	242.624	148.909	202.989
3041	242.607	148.884	202.924
3042	242.591	148.86	202.858
3043	242.574	148.835	202.793
3044	242.557	148.81	202.727
3045	242.541	148.785	202.662
3046	242.524	148.76	202.597
3047	242.507	148.735	202.532
3048	242.49	148.71	202.467
3049	242.474	148.686	202.402
3050	242.457	148.661	202.337
3051	242.44	148.636	202.273
3052	242.423	148.611	202.208
3053	242.404	148.587	202.134
3054	242.383	148.562	202.048
3055	242.358	148.538	201.951
3056	242.332	148.514	201.845
3057	242.362	148.497	201.957
3058	242.432	148.481	202.233
3059	242.43	148.47	202.197
3060	242.4	148.451	202.067
3061	242.37	148.433	201.938
3062	242.34	148.414	201.809
3063	242.31	148.395	201.682
3064	242.281	148.376	201.556
3065	242.251	148.357	201.432
3066	242.222	148.338	201.308
3067	242.193	148.319	201.183
3068	242.163	148.299	201.056
3069	242.133	148.28	200.93

010299

990

3070	242.103	148.261	200.802
3071	242.072	148.242	200.674
3072	242.042	148.222	200.545
3073	242.011	148.203	200.416
3074	242.081	148.191	200.688
3075	242.148	148.183	200.939
3076	242.205	148.178	201.162
3077	242.25	148.176	201.356
3078	242.293	148.176	201.538
3079	242.332	148.179	201.7
3080	242.369	148.185	201.846
3081	242.407	148.193	201.985
3082	242.448	148.205	202.123
3083	242.485	148.219	202.259
3084	242.533	148.233	202.405
3085	242.584	148.245	202.558
3086	242.63	148.257	202.704
3087	242.665	148.268	202.829
3088	242.703	148.28	202.962
3089	242.734	148.293	203.078
3090	242.747	148.308	203.112
3091	242.738	148.326	203.055
3092	242.731	148.338	202.999
3093	242.694	148.38	202.813
3094	242.657	148.422	202.629
3095	242.62	148.463	202.445
3096	242.583	148.504	202.261
3097	242.546	148.545	202.079
3098	242.51	148.586	201.897
3099	242.473	148.627	201.716
3100	242.436	148.667	201.536
3101	242.399	148.707	201.356
3102	242.363	148.747	201.178
3103	242.326	148.787	201
3104	242.289	148.827	200.822
3105	242.253	148.866	200.646
3106	242.216	148.906	200.47
3107	242.18	148.945	200.295
3108	242.143	148.984	200.121
3109	242.107	149.022	199.947
3110	242.157	149.031	200.144
3111	242.207	149.045	200.338
3112	242.254	149.059	200.53
3113	242.298	149.071	200.709
3114	242.34	149.081	200.883
3115	242.383	149.091	201.057
3116	242.432	149.1	201.242
3117	242.486	149.109	201.438
3118	242.547	149.118	201.643
3119	242.611	149.125	201.855
3120	242.676	149.13	202.085
3121	242.742	149.134	202.328
3122	242.798	149.135	202.533
3123	242.846	149.134	202.709
3124	242.885	149.131	202.861

010300

3125	242.918	149.126	202.995
3126	242.947	149.12	203.117
3127	242.972	149.113	203.226
3128	242.994	149.105	203.326
3129	243.013	149.096	203.418
3130	243.029	149.086	203.5
3131	243.043	149.075	203.573
3132	243.054	149.064	203.636
3133	243.065	149.052	203.694
3134	243.077	149.038	203.752
3135	243.092	149.024	203.81
3136	243.107	149.009	203.867
3137	243.123	148.993	203.926
3138	243.094	148.977	203.792
3139	243.065	148.962	203.659
3140	243.035	148.947	203.525
3141	243.006	148.931	203.391
3142	243.022	148.914	203.453
3143	243.037	148.895	203.516
3144	243.052	148.876	203.579
3145	243.067	148.855	203.644
3146	243.082	148.834	203.709
3147	243.097	148.813	203.774
3148	243.112	148.79	203.84
3149	243.126	148.767	203.906
3150	243.195	148.753	204.179
3151	243.265	148.741	204.446
3152	243.332	148.734	204.698
3153	243.384	148.73	204.882
3154	243.323	148.711	204.722
3155	243.291	148.701	204.585
3156	243.259	148.69	204.451
3157	243.228	148.68	204.318
3158	243.197	148.669	204.187
3159	243.166	148.658	204.061
3160	243.137	148.648	203.937
3161	243.108	148.637	203.817
3162	243.079	148.626	203.697
3163	243.05	148.615	203.575
3164	243.02	148.603	203.453
3165	242.991	148.592	203.332
3166	242.961	148.581	203.207
3167	242.929	148.57	203.077
3168	242.897	148.559	202.944
3169	242.864	148.547	202.808
3170	242.807	148.526	202.653
3171	242.743	148.504	202.496
3172	242.694	148.489	202.354
3173	242.658	148.479	202.225
3174	242.612	148.465	202.087
3175	242.546	148.442	201.929
3176	242.475	148.414	201.764
3177	242.437	148.401	201.627
3178	242.403	148.388	201.494
3179	242.449	148.386	201.692

010301

3180	242.493	148.385	201.877
3181	242.533	148.388	202.044
3182	242.57	148.392	202.192
3183	242.607	148.4	202.331
3184	242.648	148.411	202.469
3185	242.686	148.424	202.605
3186	242.731	148.438	202.747
3187	242.783	148.451	202.9
3188	242.832	148.463	203.051
3189	242.869	148.474	203.178
3190	242.905	148.486	203.309
3191	242.939	148.499	203.43
3192	242.958	148.513	203.494
3193	242.949	148.53	203.437
3194	242.942	148.544	203.38
3195	242.905	148.586	203.194
3196	242.868	148.628	203.008
3197	242.831	148.669	202.824
3198	242.794	148.71	202.64
3199	242.757	148.751	202.457
3200	242.72	148.792	202.275
3201	242.684	148.833	202.093
3202	242.647	148.873	201.912
3203	242.61	148.914	201.732
3204	242.573	148.954	201.553
3205	242.537	148.994	201.374
3206	242.5	149.034	201.196
3207	242.463	149.073	201.019
3208	242.427	149.113	200.843
3209	242.39	149.152	200.667
3210	242.354	149.191	200.492
3211	242.317	149.23	200.318
3212	242.369	149.238	200.516
3213	242.418	149.25	200.71
3214	242.467	149.265	200.906
3215	242.512	149.278	201.087
3216	242.554	149.288	201.26
3217	242.596	149.298	201.432
3218	242.643	149.307	201.615
3219	242.697	149.316	201.807
3220	242.757	149.326	202.011
3221	242.82	149.333	202.22
3222	242.885	149.339	202.445
3223	242.952	149.343	202.694
3224	243.011	149.344	202.907
3225	243.06	149.343	203.087
3226	243.101	149.341	203.244
3227	243.135	149.336	203.38
3228	243.165	149.33	203.503
3229	243.19	149.323	203.613
3230	243.212	149.315	203.712
3231	243.23	149.306	203.803
3232	243.246	149.296	203.882
3233	243.259	149.285	203.952
3234	243.27	149.273	204.011

010302

3235	243.281	149.26	204.069
3236	243.295	149.246	204.126
3237	243.31	149.23	204.184
3238	243.326	149.214	204.242
3239	243.342	149.197	204.302
3240	243.357	149.179	204.363
3241	243.425	149.17	204.617
3242	243.488	149.165	204.845
3243	243.534	149.163	205.038
3244	243.577	149.164	205.217
3245	243.598	149.167	205.299
3246	243.568	149.163	205.168
3247	243.537	149.159	205.038
3248	243.507	149.155	204.908
3249	243.476	149.15	204.778
3250	243.446	149.146	204.649
3251	243.416	149.141	204.524
3252	243.387	149.137	204.399
3253	243.357	149.132	204.276
3254	243.328	149.127	204.153
3255	243.299	149.122	204.032
3256	243.27	149.117	203.908
3257	243.24	149.112	203.785
3258	243.211	149.107	203.663
3259	243.181	149.101	203.541
3260	243.152	149.096	203.419
3261	243.122	149.091	203.298
3262	243.093	149.085	203.176
3263	243.062	149.079	203.052
3264	243.032	149.074	202.928
3265	242.99	149.062	202.786
3266	242.925	149.037	202.609
3267	242.876	149.022	202.461
3268	242.851	149.022	202.358
3269	242.829	149.024	202.263
3270	242.808	149.027	202.17
3271	242.787	149.029	202.079
3272	242.767	149.031	201.989
3273	242.746	149.033	201.897
3274	242.725	149.035	201.806
3275	242.704	149.037	201.714
3276	242.683	149.038	201.623
3277	242.662	149.04	201.532
3278	242.641	149.042	201.442
3279	242.62	149.043	201.353
3280	242.599	149.045	201.263
3281	242.579	149.046	201.174
3282	242.558	149.047	201.085
3283	242.537	149.049	200.997
3284	242.516	149.05	200.909
3285	242.496	149.051	200.821
3286	242.475	149.052	200.733
3287	242.454	149.053	200.646
3288	242.433	149.054	200.557
3289	242.412	149.054	200.468

010303

3290	242.389	149.054	200.375
3291	242.352	149.045	200.258
3292	242.302	149.027	200.116
3293	242.284	149.028	200.038
3294	242.321	149.03	200.193
3295	242.359	149.035	200.339
3296	242.401	149.043	200.485
3297	242.439	149.054	200.629
3298	242.484	149.065	200.779
3299	242.537	149.075	200.939
3300	242.586	149.084	201.098
3301	242.622	149.093	201.232
3302	242.66	149.103	201.37
3303	242.693	149.114	201.496
3304	242.711	149.126	201.562
3305	242.702	149.142	201.511
3306	242.695	149.154	201.461
3307	242.658	149.193	201.283
3308	242.622	149.233	201.106
3309	242.585	149.272	200.93
3310	242.549	149.311	200.755
3311	242.512	149.35	200.58
3312	242.476	149.389	200.406
3313	242.439	149.427	200.233
3314	242.403	149.466	200.061
3315	242.366	149.504	199.889
3316	242.33	149.542	199.718
3317	242.294	149.58	199.547
3318	242.257	149.617	199.378
3319	242.221	149.655	199.209
3320	242.185	149.692	199.041
3321	242.148	149.729	198.873
3322	242.112	149.766	198.706
3323	242.076	149.803	198.54
3324	242.127	149.81	198.742
3325	242.177	149.821	198.942
3326	242.226	149.834	199.142
3327	242.271	149.845	199.328
3328	242.313	149.854	199.507
3329	242.355	149.861	199.686
3330	242.403	149.868	199.875
3331	242.457	149.875	200.074
3332	242.517	149.882	200.284
3333	242.58	149.887	200.501
3334	242.646	149.891	200.732
3335	242.714	149.892	200.988
3336	242.772	149.891	201.207
3337	242.822	149.888	201.392
3338	242.863	149.883	201.554
3339	242.897	149.876	201.697
3340	242.927	149.867	201.825
3341	242.953	149.858	201.941
3342	242.975	149.847	202.047
3343	242.994	149.835	202.143
3344	243.01	149.823	202.23

010304

3345	243.024	149.809	202.306
3346	243.036	149.795	202.372
3347	243.047	149.779	202.436
3348	243.061	149.763	202.5
3349	243.077	149.745	202.563
3350	243.093	149.727	202.627
3351	243.11	149.707	202.692
3352	243.126	149.687	202.759
3353	243.142	149.665	202.827
3354	243.158	149.643	202.895
3355	243.173	149.62	202.964
3356	243.189	149.596	203.033
3357	243.204	149.572	203.104
3358	243.219	149.547	203.174
3359	243.234	149.521	203.244
3360	243.249	149.494	203.314
3361	243.264	149.468	203.384
3362	243.233	149.442	203.259
3363	243.203	149.417	203.135
3364	243.173	149.392	203.011
3365	243.142	149.367	202.887
3366	243.112	149.342	202.763
3367	243.082	149.316	202.64
3368	243.051	149.291	202.517
3369	243.021	149.266	202.394
3370	242.991	149.241	202.272
3371	242.96	149.215	202.149
3372	242.93	149.19	202.028
3373	242.9	149.164	201.906
3374	242.869	149.139	201.785
3375	242.839	149.113	201.664
3376	242.809	149.088	201.543
3377	242.827	149.07	201.606
3378	242.897	149.053	201.884
3379	242.967	149.039	202.157
3380	243.035	149.029	202.414
3381	243.096	149.023	202.644
3382	243.141	149.02	202.838
3383	243.185	149.02	203.022
3384	243.225	149.022	203.187
3385	243.262	149.026	203.333
3386	243.299	149.034	203.47
3387	243.34	149.045	203.608
3388	243.378	149.059	203.743
3389	243.424	149.072	203.884
3390	243.476	149.085	204.036
3391	243.524	149.096	204.184
3392	243.56	149.108	204.309
3393	243.597	149.12	204.44
3394	243.63	149.133	204.558
3395	243.647	149.147	204.612
3396	243.638	149.164	204.553
3397	243.631	149.178	204.496
3398	243.594	149.22	204.308
3399	243.557	149.262	204.121

010305

3400	243.52	149.304	203.935
3401	243.483	149.345	203.749
3402	243.446	149.386	203.564
3403	243.409	149.427	203.38
3404	243.372	149.468	203.197
3405	243.336	149.509	203.015
3406	243.299	149.55	202.833
3407	243.262	149.59	202.652
3408	243.225	149.63	202.472
3409	243.189	149.67	202.293
3410	243.152	149.71	202.114
3411	243.116	149.749	201.936
3412	243.079	149.789	201.759
3413	243.042	149.828	201.583
3414	243.006	149.867	201.407
3415	243.057	149.875	201.604
3416	243.107	149.888	201.798
3417	243.155	149.903	201.992
3418	243.2	149.915	202.172
3419	243.242	149.926	202.344
3420	243.284	149.935	202.516
3421	243.332	149.944	202.699
3422	243.386	149.953	202.891
3423	243.446	149.963	203.095
3424	243.509	149.97	203.304
3425	243.575	149.975	203.529
3426	243.642	149.979	203.779
3427	243.7	149.98	203.989
3428	243.749	149.979	204.166
3429	243.789	149.976	204.321
3430	243.823	149.971	204.456
3431	243.853	149.965	204.576
3432	243.878	149.957	204.684
3433	243.899	149.949	204.783
3434	243.917	149.939	204.872
3435	243.933	149.929	204.95
3436	243.946	149.917	205.019
3437	243.957	149.905	205.077
3438	243.968	149.891	205.134
3439	243.982	149.877	205.191
3440	243.997	149.861	205.247
3441	244.013	149.845	205.304
3442	244.028	149.827	205.363
3443	244.044	149.809	205.423
3444	244.059	149.789	205.484
3445	244.074	149.769	205.545
3446	244.089	149.748	205.608
3447	244.104	149.726	205.671
3448	244.119	149.703	205.735
3449	244.133	149.68	205.798
3450	244.147	149.656	205.862
3451	244.161	149.632	205.926
3452	244.167	149.607	205.955
3453	244.135	149.584	205.823
3454	244.104	149.561	205.691

010306

3455	244.073	149.538	205.56
3456	244.042	149.514	205.429
3457	244.011	149.491	205.298
3458	243.979	149.468	205.168
3459	243.948	149.444	205.038
3460	243.917	149.421	204.909
3461	243.887	149.397	204.783
3462	243.857	149.374	204.661
3463	243.828	149.35	204.542
3464	243.87	149.334	204.7
3465	243.939	149.32	204.971
3466	244.008	149.31	205.236
3467	244.074	149.303	205.475
3468	244.126	149.301	205.68
3469	244.17	149.301	205.862
3470	244.211	149.305	206.028
3471	244.19	149.309	205.929
3472	244.159	149.306	205.797
3473	244.129	149.302	205.665
3474	244.098	149.298	205.532
3475	244.062	149.292	205.393
3476	244.027	149.286	205.255
3477	243.997	149.282	205.126
3478	243.966	149.277	204.997
3479	243.936	149.273	204.869
3480	243.906	149.269	204.743
3481	243.876	149.264	204.616
3482	243.845	149.259	204.489
3483	243.815	149.255	204.362
3484	243.784	149.25	204.235
3485	243.754	149.245	204.109
3486	243.723	149.24	203.983
3487	243.693	149.235	203.857
3488	243.681	149.238	203.802
3489	243.718	149.243	203.947
3490	243.756	149.251	204.084
3491	243.797	149.263	204.22
3492	243.834	149.277	204.353
3493	243.881	149.29	204.495
3494	243.933	149.303	204.646
3495	243.98	149.315	204.792
3496	244.015	149.326	204.914
3497	244.052	149.338	205.044
3498	244.084	149.352	205.16
3499	244.099	149.366	205.203
3500	244.091	149.384	205.143
3501	244.083	149.397	205.085
3502	244.046	149.44	204.896
3503	244.009	149.482	204.707
3504	243.972	149.524	204.52
3505	243.935	149.566	204.333
3506	243.898	149.607	204.147
3507	243.861	149.648	203.962
3508	243.824	149.69	203.778
3509	243.787	149.731	203.594

010307

010308

3510	243.75	149.771	203.411
3511	243.714	149.812	203.229
3512	243.677	149.852	203.048
3513	243.64	149.893	202.867
3514	243.603	149.933	202.687
3515	243.567	149.972	202.508
3516	243.53	150.012	202.33
3517	243.493	150.052	202.152
3518	243.457	150.091	201.975
3519	243.508	150.1	202.171
3520	243.557	150.113	202.365
3521	243.606	150.128	202.557
3522	243.65	150.14	202.735
3523	243.692	150.151	202.907
3524	243.735	150.16	203.079
3525	243.783	150.169	203.262
3526	243.837	150.179	203.455
3527	243.898	150.188	203.658
3528	243.961	150.195	203.867
3529	244.026	150.201	204.093
3530	244.093	150.204	204.339
3531	244.15	150.205	204.545
3532	244.198	150.204	204.72
3533	244.238	150.201	204.872
3534	244.271	150.196	205.006
3535	244.3	150.19	205.125
3536	244.325	150.182	205.231
3537	244.346	150.174	205.328
3538	244.363	150.164	205.415
3539	244.379	150.154	205.492
3540	244.391	150.142	205.558
3541	244.402	150.129	205.614
3542	244.413	150.116	205.67
3543	244.427	150.101	205.726
3544	244.443	150.085	205.782
3545	244.458	150.069	205.839
3546	244.474	150.051	205.897
3547	244.489	150.032	205.957
3548	244.504	150.012	206.018
3549	244.519	149.991	206.08
3550	244.534	149.969	206.142
3551	244.603	149.958	206.406
3552	244.669	149.951	206.647
3553	244.724	149.948	206.857
3554	244.768	149.947	207.04
3555	244.811	149.949	207.212
3556	244.805	149.954	207.177
3557	244.74	149.931	206.989
3558	244.68	149.912	206.81
3559	244.626	149.896	206.645
3560	244.578	149.884	206.491
3561	244.537	149.877	206.35
3562	244.474	149.855	206.169
3563	244.415	149.835	205.994
3564	244.359	149.818	205.827

3565	244.301	149.798	205.655
3566	244.239	149.777	205.479
3567	244.19	149.764	205.325
3568	244.141	149.75	205.173
3569	244.092	149.736	205.02
3570	244.043	149.722	204.868
3571	243.994	149.708	204.716
3572	243.94	149.691	204.556
3573	243.882	149.671	204.389
3574	243.82	149.648	204.214
3575	243.756	149.624	204.036
3576	243.699	149.604	203.869
3577	243.649	149.587	203.713
3578	243.584	149.562	203.535
3579	243.52	149.537	203.358
3580	243.458	149.514	203.186
3581	243.398	149.491	203.016
3582	243.333	149.466	202.839
3583	243.348	149.457	202.913
3584	243.368	149.448	203.009
3585	243.384	149.437	203.095
3586	243.395	149.426	203.157
3587	243.409	149.426	203.216
3588	243.34	149.398	203.04
3589	243.27	149.371	202.863
3590	243.201	149.344	202.687
3591	243.132	149.316	202.512
3592	243.063	149.289	202.337
3593	243.031	149.28	202.215
3594	242.999	149.272	202.094
3595	242.968	149.263	201.973
3596	242.936	149.255	201.853
3597	242.904	149.246	201.734
3598	242.872	149.237	201.614
3599	242.841	149.229	201.494
3600	242.809	149.22	201.374
3601	242.777	149.211	201.255
3602	242.745	149.202	201.136
3603	242.714	149.193	201.019
3604	242.683	149.183	200.905
3605	242.653	149.174	200.793
3606	242.623	149.164	200.685
3607	242.594	149.155	200.581
3608	242.567	149.145	200.481
3609	242.539	149.135	200.383
3610	242.513	149.125	200.289
3611	242.487	149.115	200.2
3612	242.462	149.105	200.112
3613	242.466	149.094	200.15
3614	242.483	149.082	200.244
3615	242.498	149.069	200.33
3616	242.472	149.058	200.239
3617	242.444	149.046	200.143
3618	242.416	149.034	200.042
3619	242.386	149.023	199.936

010309

1000

3620	242.355	149.011	199.828
3621	242.325	148.999	199.722
3622	242.294	148.987	199.613
3623	242.263	148.976	199.501
3624	242.231	148.964	199.388
3625	242.198	148.952	199.272
3626	242.166	148.94	199.156
3627	242.133	148.928	199.041
3628	242.101	148.916	198.926
3629	242.068	148.904	198.81
3630	242.112	148.901	199.001
3631	242.151	148.901	199.168
3632	242.188	148.904	199.32
3633	242.227	148.91	199.469
3634	242.268	148.919	199.617
3635	242.306	148.93	199.762
3636	242.357	148.94	199.921
3637	242.408	148.949	200.084
3638	242.452	148.958	200.233
3639	242.488	148.966	200.369
3640	242.525	148.976	200.511
3641	242.555	148.987	200.628
3642	242.56	149	200.638
3643	242.552	149.015	200.589
3644	242.545	149.024	200.541
3645	242.508	149.063	200.366
3646	242.472	149.102	200.192
3647	242.435	149.141	200.019
3648	242.399	149.179	199.846
3649	242.362	149.218	199.674
3650	242.326	149.256	199.503
3651	242.289	149.294	199.332
3652	242.253	149.332	199.162
3653	242.216	149.37	198.993
3654	242.18	149.407	198.825
3655	242.144	149.445	198.657
3656	242.107	149.482	198.49
3657	242.071	149.519	198.323
3658	242.035	149.555	198.158
3659	241.999	149.592	197.993
3660	241.962	149.629	197.828
3661	241.926	149.665	197.665
3662	241.976	149.673	197.866
3663	242.026	149.686	198.067
3664	242.073	149.698	198.262
3665	242.115	149.707	198.444
3666	242.158	149.714	198.625
3667	242.202	149.721	198.81
3668	242.252	149.728	199.005
3669	242.309	149.734	199.212
3670	242.371	149.74	199.427
3671	242.435	149.743	199.648
3672	242.502	149.746	199.893
3673	242.565	149.746	200.134
3674	242.62	149.743	200.337

010310

1001

3675	242.665	149.738	200.514
3676	242.703	149.732	200.668
3677	242.735	149.724	200.806
3678	242.763	149.714	200.93
3679	242.786	149.704	201.042
3680	242.807	149.692	201.145
3681	242.824	149.679	201.237
3682	242.838	149.666	201.318
3683	242.85	149.651	201.388
3684	242.862	149.635	201.454
3685	242.876	149.618	201.52
3686	242.892	149.6	201.586
3687	242.909	149.58	201.653
3688	242.925	149.56	201.721
3689	242.941	149.538	201.791
3690	242.957	149.516	201.861
3691	242.973	149.492	201.933
3692	242.988	149.467	202.005
3693	243.004	149.442	202.077
3694	243.019	149.416	202.15
3695	243.034	149.389	202.222
3696	243.034	149.362	202.232
3697	242.933	149.321	202.077
3698	242.919	149.303	201.999
3699	242.989	149.285	202.279
3700	243.059	149.269	202.554
3701	243.129	149.257	202.822
3702	243.195	149.249	203.067
3703	243.249	149.244	203.281
3704	243.293	149.242	203.47
3705	243.336	149.243	203.648
3706	243.374	149.246	203.803
3707	243.411	149.252	203.945
3708	243.45	149.261	204.081
3709	243.491	149.272	204.217
3710	243.528	149.287	204.35
3711	243.578	149.3	204.497
3712	243.629	149.312	204.648
3713	243.673	149.324	204.787
3714	243.709	149.335	204.912
3715	243.747	149.348	205.044
3716	243.777	149.361	205.153
3717	243.783	149.377	205.16
3718	243.775	149.394	205.1
3719	243.768	149.406	205.043
3720	243.731	149.448	204.854
3721	243.694	149.49	204.666
3722	243.657	149.532	204.479
3723	243.621	149.573	204.293
3724	243.584	149.615	204.107
3725	243.547	149.656	203.922
3726	243.51	149.697	203.738
3727	243.473	149.738	203.554
3728	243.437	149.778	203.371
3729	243.4	149.819	203.189

010311

102

3730	243.363	149.859	203.008
3731	243.327	149.899	202.828
3732	243.29	149.939	202.648
3733	243.254	149.979	202.469
3734	243.217	150.018	202.291
3735	243.181	150.058	202.113
3736	243.144	150.097	201.937
3737	243.194	150.107	202.131
3738	243.244	150.122	202.325
3739	243.291	150.136	202.513
3740	243.334	150.147	202.688
3741	243.376	150.157	202.86
3742	243.42	150.166	203.035
3743	243.47	150.175	203.221
3744	243.526	150.185	203.417
3745	243.587	150.193	203.622
3746	243.651	150.199	203.833
3747	243.718	150.205	204.067
3748	243.782	150.207	204.301
3749	243.836	150.207	204.497
3750	243.882	150.205	204.666
3751	243.92	150.201	204.812
3752	243.952	150.196	204.941
3753	243.98	150.189	205.056
3754	244.004	150.181	205.16
3755	244.024	150.172	205.255
3756	244.041	150.162	205.339
3757	244.056	150.151	205.414
3758	244.068	150.139	205.479
3759	244.079	150.126	205.536
3760	244.091	150.112	205.592
3761	244.104	150.098	205.648
3762	244.118	150.083	205.704
3763	244.134	150.067	205.76
3764	244.15	150.05	205.816
3765	244.166	150.033	205.873
3766	244.181	150.016	205.931
3767	244.197	149.997	205.989
3768	244.212	149.979	206.048
3769	244.228	149.96	206.108
3770	244.243	149.94	206.168
3771	244.258	149.92	206.228
3772	244.273	149.899	206.289
3773	244.288	149.878	206.35
3774	244.303	149.856	206.412
3775	244.317	149.834	206.474
3776	244.331	149.811	206.536
3777	244.346	149.787	206.599
3778	244.35	149.763	206.62
3779	244.328	149.747	206.505
3780	244.307	149.732	206.39
3781	244.285	149.716	206.275
3782	244.264	149.701	206.161
3783	244.242	149.685	206.047
3784	244.221	149.669	205.934

010312

3785	244.199	149.653	205.82
3786	244.178	149.637	205.707
3787	244.157	149.621	205.595
3788	244.134	149.605	205.478
3789	244.111	149.589	205.357
3790	244.087	149.573	205.234
3791	244.019	149.545	205.089
3792	243.976	149.519	204.949
3793	243.944	149.495	204.817
3794	243.913	149.471	204.688
3795	243.882	149.448	204.56
3796	243.851	149.424	204.433
3797	243.821	149.4	204.308
3798	243.79	149.376	204.183
3799	243.759	149.352	204.057
3800	243.729	149.328	203.932
3801	243.698	149.304	203.807
3802	243.668	149.28	203.682
3803	243.637	149.256	203.558
3804	243.606	149.232	203.434
3805	243.576	149.208	203.31
3806	243.545	149.184	203.186
3807	243.541	149.167	203.154
3808	243.611	149.151	203.43
3809	243.68	149.138	203.701
3810	243.748	149.129	203.958
3811	243.812	149.123	204.191
3812	243.859	149.121	204.388
3813	243.902	149.122	204.57
3814	243.943	149.125	204.735
3815	243.98	149.13	204.879
3816	244.016	149.138	205.012
3817	244.056	149.15	205.146
3818	244.094	149.164	205.277
3819	244.137	149.18	205.412
3820	244.189	149.193	205.559
3821	244.239	149.206	205.708
3822	244.277	149.219	205.833
3823	244.314	149.232	205.958
3824	244.348	149.245	206.077
3825	244.37	149.26	206.151
3826	244.363	149.278	206.096
3827	244.355	149.293	206.035
3828	244.35	149.304	205.977
3829	244.313	149.347	205.785
3830	244.276	149.39	205.593
3831	244.239	149.433	205.403
3832	244.202	149.475	205.213
3833	244.165	149.518	205.023
3834	244.127	149.56	204.835
3835	244.09	149.602	204.647
3836	244.053	149.643	204.46
3837	244.016	149.685	204.274
3838	243.98	149.726	204.089
3839	243.943	149.768	203.904

010313

1004

3840	243.906	149.809	203.721
3841	243.869	149.849	203.538
3842	243.832	149.89	203.355
3843	243.795	149.931	203.174
3844	243.758	149.971	202.993
3845	243.722	150.011	202.813
3846	243.771	150.024	203.005
3847	243.821	150.04	203.198
3848	243.866	150.053	203.378
3849	243.908	150.064	203.549
3850	243.95	150.075	203.718
3851	243.996	150.085	203.895
3852	244.049	150.094	204.084
3853	244.108	150.105	204.282
3854	244.171	150.113	204.488
3855	244.235	150.12	204.706
3856	244.303	150.125	204.949
3857	244.362	150.127	205.163
3858	244.412	150.127	205.343
3859	244.454	150.125	205.498
3860	244.488	150.122	205.633
3861	244.518	150.116	205.754
3862	244.544	150.11	205.86
3863	244.565	150.102	205.957
3864	244.607	150.104	206.126
3865	244.589	150.107	206.041
3866	244.529	150.087	205.867
3867	244.474	150.069	205.701
3868	244.422	150.054	205.544
3869	244.376	150.041	205.396
3870	244.333	150.031	205.256
3871	244.276	150.011	205.086
3872	244.223	149.993	204.923
3873	244.174	149.977	204.767
3874	244.13	149.964	204.619
3875	244.09	149.953	204.478
3876	244.03	149.93	204.305
3877	243.969	149.907	204.132
3878	243.909	149.884	203.961
3879	243.848	149.861	203.789
3880	243.788	149.838	203.618
3881	243.727	149.815	203.448
3882	243.667	149.792	203.278
3883	243.606	149.769	203.109
3884	243.546	149.745	202.94
3885	243.485	149.722	202.771
3886	243.425	149.698	202.603
3887	243.365	149.675	202.436
3888	243.305	149.651	202.269
3889	243.244	149.627	202.102
3890	243.184	149.603	201.936
3891	243.124	149.579	201.77
3892	243.059	149.552	201.598
3893	243.014	149.536	201.456
3894	242.969	149.52	201.316

010314

3895	242.924	149.504	201.175
3896	242.879	149.488	201.035
3897	242.838	149.474	200.901
3898	242.778	149.45	200.739
3899	242.718	149.425	200.577
3900	242.658	149.4	200.415
3901	242.598	149.375	200.254
3902	242.538	149.35	200.093
3903	242.478	149.325	199.932
3904	242.418	149.3	199.772
3905	242.359	149.275	199.613
3906	242.299	149.249	199.454
3907	242.239	149.224	199.295
3908	242.179	149.198	199.137
3909	242.119	149.173	198.98
3910	242.059	149.147	198.822
3911	242	149.121	198.665
3912	241.94	149.095	198.509
3913	241.88	149.069	198.353
3914	241.828	149.049	198.213
3915	241.779	149.029	198.078
3916	241.732	149.012	197.949
3917	241.688	148.996	197.825
3918	241.647	148.981	197.706
3919	241.669	148.969	197.821
3920	241.688	148.956	197.926
3921	241.704	148.942	198.02
3922	241.717	148.926	198.101
3923	241.729	148.91	198.174
3924	241.742	148.892	198.247
3925	241.758	148.874	198.319
3926	241.774	148.854	198.391
3927	241.791	148.833	198.465
3928	241.808	148.812	198.54
3929	241.824	148.789	198.615
3930	241.84	148.766	198.692
3931	241.856	148.742	198.769
3932	241.872	148.717	198.846
3933	241.888	148.692	198.924
3934	241.904	148.666	199.002
3935	241.919	148.64	199.08
3936	241.891	148.616	198.97
3937	241.877	148.59	198.919
3938	241.892	148.564	198.997
3939	241.907	148.536	199.075
3940	241.977	148.517	199.358
3941	242.047	148.501	199.638
3942	242.117	148.489	199.91
3943	242.183	148.48	200.157
3944	242.235	148.475	200.371
3945	242.279	148.473	200.563
3946	242.321	148.473	200.742
3947	242.359	148.476	200.898
3948	242.395	148.481	201.042
3949	242.435	148.49	201.184

010315

10-6

3950	242.475	148.501	201.325
3951	242.514	148.515	201.465
3952	242.567	148.527	201.621
3953	242.618	148.538	201.778
3954	242.659	148.549	201.918
3955	242.696	148.559	202.049
3956	242.732	148.571	202.182
3957	242.76	148.583	202.29
3958	242.761	148.598	202.275
3959	242.753	148.613	202.221
3960	242.746	148.623	202.169
3961	242.71	148.664	201.988
3962	242.673	148.705	201.807
3963	242.636	148.745	201.626
3964	242.599	148.785	201.447
3965	242.562	148.825	201.268
3966	242.526	148.865	201.09
3967	242.489	148.905	200.913
3968	242.452	148.945	200.736
3969	242.416	148.984	200.56
3970	242.379	149.023	200.385
3971	242.343	149.062	200.211
3972	242.306	149.101	200.037
3973	242.27	149.139	199.864
3974	242.233	149.178	199.692
3975	242.197	149.216	199.52
3976	242.16	149.254	199.35
3977	242.124	149.292	199.18
3978	242.174	149.302	199.377
3979	242.223	149.317	199.574
3980	242.269	149.33	199.763
3981	242.312	149.34	199.94
3982	242.354	149.349	200.116
3983	242.399	149.357	200.298
3984	242.45	149.365	200.49
3985	242.508	149.374	200.693
3986	242.57	149.381	200.904
3987	242.634	149.386	201.123
3988	242.7	149.39	201.366
3989	242.762	149.391	201.596
3990	242.815	149.39	201.789
3991	242.859	149.387	201.958
3992	242.895	149.382	202.103
3993	242.927	149.375	202.234
3994	242.954	149.368	202.352
3995	242.977	149.359	202.458
3996	242.996	149.349	202.555
3997	243.013	149.338	202.642
3998	243.027	149.326	202.719
3999	243.039	149.314	202.785
4000	243.05	149.3	202.846
4001	243.063	149.285	202.907
4002	243.078	149.269	202.968
4003	243.094	149.252	203.029
4004	243.11	149.234	203.092

010316

1007

4005	243.126	149.215	203.156
4006	243.141	149.195	203.221
4007	243.157	149.174	203.287
4008	243.172	149.152	203.354
4009	243.242	149.14	203.622
4010	243.309	149.132	203.871
4011	243.368	149.127	204.094
4012	243.413	149.125	204.286
4013	243.457	149.125	204.467
4014	243.498	149.128	204.634
4015	243.481	149.132	204.555
4016	243.46	149.136	204.457
4017	243.439	149.14	204.358
4018	243.418	149.143	204.261
4019	243.397	149.147	204.163
4020	243.375	149.151	204.065
4021	243.354	149.154	203.966
4022	243.332	149.158	203.867
4023	243.311	149.161	203.768
4024	243.289	149.164	203.67
4025	243.268	149.167	203.571
4026	243.246	149.17	203.474
4027	243.225	149.173	203.377
4028	243.203	149.176	203.281
4029	243.182	149.179	203.185
4030	243.161	149.182	203.089
4031	243.14	149.184	202.994
4032	243.118	149.187	202.898
4033	243.097	149.189	202.804
4034	243.076	149.192	202.709
4035	243.055	149.194	202.615
4036	243.033	149.196	202.521
4037	243.012	149.198	202.427
4038	242.991	149.2	202.334
4039	242.97	149.202	202.241
4040	242.949	149.204	202.148
4041	242.927	149.206	202.056
4042	242.907	149.208	201.964
4043	242.886	149.209	201.874
4044	242.865	149.211	201.784
4045	242.844	149.213	201.694
4046	242.824	149.214	201.605
4047	242.798	149.206	201.505
4048	242.818	149.196	201.605
4049	242.834	149.185	201.694
4050	242.848	149.173	201.769
4051	242.858	149.159	201.832
4052	242.903	149.156	202.026
4053	242.947	149.155	202.21
4054	242.986	149.157	202.372
4055	243.023	149.161	202.519
4056	243.061	149.168	202.66
4057	243.103	149.178	202.799
4058	243.14	149.191	202.937
4059	243.187	149.204	203.083

010317

1018

gls

4060	243.239	149.215	203.238
4061	243.286	149.226	203.386
4062	243.321	149.236	203.512
4063	243.358	149.248	203.646
4064	243.391	149.26	203.764
4065	243.404	149.274	203.806
4066	243.396	149.291	203.749
4067	243.389	149.303	203.694
4068	243.352	149.345	203.51
4069	243.315	149.386	203.326
4070	243.278	149.427	203.143
4071	243.242	149.467	202.96
4072	243.205	149.508	202.779
4073	243.168	149.548	202.598
4074	243.131	149.588	202.418
4075	243.095	149.628	202.238
4076	243.058	149.668	202.06
4077	243.022	149.708	201.882
4078	242.985	149.747	201.705
4079	242.949	149.786	201.528
4080	242.912	149.825	201.353
4081	242.876	149.864	201.178
4082	242.839	149.903	201.004
4083	242.803	149.941	200.83
4084	242.766	149.979	200.657
4085	242.817	149.987	200.856
4086	242.867	150.001	201.051
4087	242.915	150.015	201.246
4088	242.959	150.026	201.426
4089	243.001	150.036	201.601
4090	243.044	150.044	201.776
4091	243.092	150.052	201.962
4092	243.147	150.061	202.158
4093	243.208	150.069	202.364
4094	243.271	150.075	202.577
4095	243.337	150.08	202.807
4096	243.404	150.082	203.054
4097	243.461	150.082	203.262
4098	243.509	150.08	203.44
4099	243.548	150.076	203.594
4100	243.582	150.07	203.73
4101	243.611	150.063	203.852
4102	243.636	150.054	203.961
4103	243.658	150.045	204.062
4104	243.676	150.034	204.153
4105	243.692	150.023	204.234
4106	243.706	150.011	204.306
4107	243.717	149.998	204.368
4108	243.729	149.984	204.427
4109	243.742	149.969	204.486
4110	243.757	149.952	204.545
4111	243.773	149.935	204.604
4112	243.789	149.917	204.664
4113	243.805	149.898	204.726
4114	243.82	149.878	204.789

010318

1009

4115	243.836	149.857	204.852
4116	243.851	149.835	204.916
4117	243.866	149.813	204.981
4118	243.881	149.79	205.047
4119	243.896	149.766	205.113
4120	243.911	149.741	205.178
4121	243.925	149.716	205.244
4122	243.939	149.69	205.31
4123	243.908	149.666	205.179
4124	243.877	149.642	205.048
4125	243.845	149.618	204.917
4126	243.814	149.594	204.786
4127	243.783	149.57	204.656
4128	243.752	149.546	204.526
4129	243.721	149.522	204.397
4130	243.689	149.498	204.267
4131	243.658	149.473	204.137
4132	243.626	149.449	204.005
4133	243.594	149.425	203.874
4134	243.562	149.4	203.743
4135	243.53	149.376	203.611
4136	243.447	149.34	203.459
4137	243.43	149.323	203.369
4138	243.499	149.306	203.645
4139	243.569	149.292	203.918
4140	243.638	149.281	204.183
4141	243.704	149.274	204.426
4142	243.759	149.27	204.638
4143	243.803	149.269	204.825
4144	243.846	149.271	205.001
4145	243.844	149.275	204.987
4146	243.789	149.258	204.822
4147	243.733	149.24	204.656
4148	243.681	149.225	204.498
4149	243.629	149.21	204.341
4150	243.577	149.195	204.184
4151	243.534	149.183	204.037
4152	243.495	149.174	203.897
4153	243.461	149.167	203.764
4154	243.43	149.162	203.637
4155	243.4	149.157	203.51
4156	243.355	149.144	203.363
4157	243.31	149.13	203.215
4158	243.266	149.117	203.068
4159	243.221	149.104	202.922
4160	243.176	149.09	202.775
4161	243.132	149.077	202.63
4162	243.092	149.066	202.492
4163	243.058	149.058	202.363
4164	243.027	149.052	202.24
4165	242.997	149.046	202.118
4166	242.966	149.039	201.996
4167	242.936	149.033	201.876
4168	242.906	149.027	201.755
4169	242.875	149.02	201.634

010319

1010

4170	242.845	149.013	201.514
4171	242.815	149.007	201.394
4172	242.784	149	201.274
4173	242.756	148.993	201.161
4174	242.761	148.984	201.196
4175	242.798	148.987	201.35
4176	242.835	148.992	201.493
4177	242.876	149.001	201.636
4178	242.914	149.012	201.777
4179	242.958	149.025	201.922
4180	243.01	149.036	202.078
4181	243.06	149.047	202.236
4182	243.099	149.057	202.37
4183	243.136	149.067	202.504
4184	243.17	149.079	202.631
4185	243.193	149.092	202.716
4186	243.187	149.107	202.673
4187	243.179	149.121	202.619
4188	243.174	149.13	202.569
4189	243.137	149.17	202.387
4190	243.1	149.211	202.207
4191	243.064	149.251	202.027
4192	243.027	149.291	201.847
4193	242.99	149.331	201.669
4194	242.953	149.37	201.491
4195	242.917	149.41	201.314
4196	242.88	149.449	201.138
4197	242.844	149.488	200.963
4198	242.807	149.527	200.788
4199	242.77	149.566	200.614
4200	242.734	149.605	200.441
4201	242.697	149.643	200.268
4202	242.661	149.681	200.096
4203	242.625	149.719	199.925
4204	242.588	149.757	199.755
4205	242.552	149.795	199.585
4206	242.516	149.832	199.416
4207	242.479	149.87	199.247
4208	242.443	149.907	199.08
4209	242.407	149.944	198.913
4210	242.371	149.981	198.747
4211	242.334	150.017	198.581
4212	242.298	150.054	198.416
4213	242.262	150.09	198.252
4214	242.226	150.126	198.089
4215	242.19	150.162	197.926
4216	242.154	150.198	197.764
4217	242.118	150.233	197.602
4218	242.082	150.269	197.441
4219	242.046	150.304	197.281
4220	242.01	150.339	197.122
4221	241.974	150.374	196.963
4222	241.938	150.409	196.805
4223	241.902	150.443	196.647
4224	241.866	150.478	196.49

010320

1011

4225	241.831	150.512	196.334
4226	241.795	150.546	196.178
4227	241.759	150.58	196.024
4228	241.723	150.614	195.869
4229	241.688	150.647	195.716
4230	241.652	150.681	195.563
4231	241.617	150.714	195.41
4232	241.581	150.747	195.259
4233	241.545	150.78	195.107
4234	241.51	150.813	194.957
4235	241.474	150.846	194.807
4236	241.439	150.878	194.658
4237	241.403	150.911	194.509
4238	241.368	150.943	194.361
4239	241.332	150.975	194.214
4240	241.297	151.007	194.067
4241	241.262	151.038	193.921
4242	241.226	151.07	193.775
4243	241.191	151.101	193.63
4244	241.156	151.133	193.486
4245	241.12	151.164	193.342
4246	241.085	151.195	193.199
4247	241.05	151.225	193.056
4248	241.015	151.256	192.914
4249	240.98	151.287	192.773
4250	240.945	151.317	192.632
4251	240.909	151.347	192.492
4252	240.874	151.377	192.352
4253	240.839	151.407	192.213
4254	240.804	151.437	192.074
4255	240.769	151.467	191.936
4256	240.734	151.496	191.799
4257	240.699	151.525	191.662
4258	240.664	151.555	191.526
4259	240.63	151.584	191.39
4260	240.595	151.612	191.255
4261	240.56	151.641	191.12
4262	240.525	151.67	190.986
4263	240.49	151.698	190.853
4264	240.455	151.727	190.72
4265	240.421	151.755	190.588
4266	240.386	151.783	190.456
4267	240.351	151.811	190.325
4268	240.317	151.839	190.194
4269	240.282	151.866	190.064
4270	240.247	151.894	189.934
4271	240.213	151.921	189.805
4272	240.178	151.948	189.676
4273	240.144	151.976	189.548
4274	240.109	152.003	189.42
4275	240.074	152.029	189.293
4276	240.04	152.056	189.167
4277	240.006	152.083	189.041
4278	239.971	152.109	188.915
4279	239.937	152.135	188.791

010321-

1012



4280	239.902	152.162	188.666
4281	239.868	152.188	188.542
4282	239.834	152.214	188.419
4283	239.799	152.239	188.296
4284	239.765	152.265	188.173
4285	239.731	152.291	188.051
4286	239.696	152.316	187.93
4287	239.662	152.341	187.809
4288	239.628	152.366	187.689
4289	239.594	152.391	187.569
4290	239.56	152.416	187.449
4291	239.526	152.441	187.33
4292	239.491	152.466	187.212
4293	239.457	152.49	187.094
4294	239.423	152.515	186.977
4295	239.389	152.539	186.86
4296	239.355	152.563	186.743
4297	239.321	152.587	186.627
4298	239.287	152.611	186.511
4299	239.253	152.635	186.396
4300	239.219	152.658	186.282
4301	239.186	152.682	186.168
4302	239.152	152.705	186.054
4303	239.118	152.729	185.941
4304	239.084	152.752	185.828
4305	239.05	152.775	185.716
4306	239.016	152.798	185.604
4307	238.983	152.821	185.492
4308	238.949	152.843	185.381
4309	238.915	152.866	185.271
4310	238.881	152.888	185.161
4311	238.848	152.911	185.051
4312	238.814	152.933	184.942
4313	238.78	152.955	184.834
4314	238.747	152.977	184.725
4315	238.713	152.999	184.618
4316	238.68	153.021	184.51
4317	238.646	153.043	184.403
4318	238.613	153.064	184.297
4319	238.579	153.086	184.191
4320	238.546	153.107	184.085
4321	238.512	153.128	183.98
4322	238.479	153.149	183.875
4323	238.445	153.17	183.771
4324	238.412	153.191	183.667
4325	238.378	153.212	183.564
4326	238.345	153.233	183.461
4327	238.312	153.253	183.358
4328	238.278	153.274	183.256
4329	238.245	153.294	183.154
4330	238.212	153.314	183.053
4331	238.179	153.334	182.952
4332	238.145	153.354	182.851
4333	238.112	153.374	182.751
4334	238.079	153.394	182.651

010322

1013



4335	238.046	153.414	182.552
4336	238.013	153.433	182.453
4337	237.979	153.453	182.354
4338	237.946	153.472	182.256
4339	237.913	153.492	182.159
4340	237.88	153.511	182.061
4341	237.847	153.53	181.964
4342	237.814	153.549	181.868
4343	237.781	153.568	181.772
4344	237.748	153.587	181.676
4345	237.715	153.605	181.581
4346	237.682	153.624	181.486
4347	237.649	153.642	181.391
4348	237.616	153.661	181.297
4349	237.584	153.679	181.203
4350	237.551	153.697	181.109
4351	237.518	153.715	181.016
4352	237.485	153.733	180.924
4353	237.452	153.751	180.831
4354	237.419	153.769	180.739
4355	237.387	153.787	180.648
4356	237.354	153.804	180.557
4357	237.321	153.822	180.466
4358	237.288	153.839	180.375
4359	237.256	153.857	180.285
4360	237.223	153.874	180.196
4361	237.19	153.891	180.106
4362	237.158	153.908	180.017
4363	237.125	153.925	179.929
4364	237.093	153.942	179.84
4365	237.06	153.959	179.752
4366	237.028	153.975	179.665
4367	236.995	153.992	179.578
4368	236.962	154.008	179.491
4369	236.93	154.025	179.404

010323

GRADIENTS	
4409.916	125.000
4620.000	0.000
5157.143	5.000
5750.000	-2.000
6010.000	0.000
6622.778	18.000
7184.737	0.000
7508.737	-7.000
8399.198	6.500
8726.800	0.000
9164.800	-3.000
9496.000	20.000
9795.000	-20.000
10136.497	0.000
10603.997	4.000
10992.874	0.000
11204.639	-20.000
11661.657	3.000
11900.000	9.500
12764.962	0.000
12899.067	-13.000
13451.280	-3.000
13776.666	0.000
14543.333	-3.000
14823.824	0.000
15177.488	20.000
15568.585	-3.000
16074.666	0.000
16172.817	15.000
16384.402	-10.000
16936.536	-3.000
17168.115	0.000
17310.642	3.000
17612.198	-3.000
18289.919	-20.000
19262.404	-17.500
19538.972	0.000
19738.972	20.000
20129.771	0.000
20304.771	-20.000
20377.308	0.000
20552.308	-2.000
21112.955	0.000
21405.473	-5.000
22359.466	-2.000
22571.523	10.000
23298.705	0.000
23798.705	4.500
24052.680	0.000
24493.172	-6.500
24906.067	2.000
25301.252	13.000
25565.871	0.000
25815.871	6.000
	0.000

010324

1015

26194.937	14.000
26243.880	0.000
26372.817	20.000
26553.057	0.000
26834.148	12.000
27430.815	0.000
27668.024	20.000
28143.024	0.000
28380.320	0.000
28617.616	-20.000
29092.616	0.000
29329.825	-12.000
29926.492	0.000
30207.583	-20.000
30387.823	0.000
30516.760	-14.000
30565.703	0.000
30944.769	-6.000
31194.769	0.000
31459.388	-13.000
31854.573	-2.000
32267.468	6.500
32707.960	0.000
32961.935	-4.500
33461.935	0.000
34189.117	-10.000
34401.174	2.000
35355.167	5.000
35647.685	0.000
36208.332	2.000
36383.332	0.000
36455.869	20.000
36630.869	0.000
37021.668	-20.000
37221.668	0.000
37498.236	17.500
38470.721	20.000
39148.442	3.000
39449.998	-3.000
39592.525	0.000
39824.104	3.000
40376.238	10.000
40587.823	-15.000
40685.974	0.000
41192.055	3.000
41583.152	-20.000
41936.816	0.000
42217.307	3.000
42983.974	0.000
43309.360	3.000
43861.573	13.000
43995.678	0.000
44860.640	-9.500
45098.983	-3.000
45556.001	20.000

1016

ds

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010325

45767.766	0.000
46156.643	-4.000
46624.143	0.000
46965.640	20.000
47264.640	-20.000
47595.840	3.000
48033.840	0.000
48361.442	-6.500
49251.903	7.000
49575.903	0.000
50137.862	-18.000
50750.640	0.000
51010.640	2.000
51603.497	-5.000
52140.640	0.000
52350.724	0.000
CURVES	187.000
4409.916	0.000
4591.681	200.000
4838.257	0.000
4951.266	550.000
5157.496	0.000
5524.264	500.000
5776.528	0.000
6028.674	1000.000
6130.168	0.000
6168.714	200.000
6474.003	0.000
6498.901	2100.000
6581.368	0.000
7375.390	450.000
7589.693	0.000
7720.014	200.000
8010.708	0.000
8031.193	200.000
8327.542	0.000
8753.779	750.000
9055.068	0.000
9435.346	1200.000
9570.240	0.000
10810.810	250.000
10995.122	0.000
11183.551	225.000
11417.369	0.000
11639.227	200.000
11864.262	0.000
12507.238	200.000
12677.609	0.000
13268.612	12000.000
13315.736	0.000
14447.063	5000.000
14513.822	0.000
14801.397	200.000
15092.091	0.000
15165.263	200.000

010320

1017

15398.780	0.000
15620.515	3000.000
15677.064	0.000
16034.556	300.000
16365.358	0.000
16408.348	1100.000
16504.118	0.000
16756.944	350.000
16970.545	0.000
17161.945	1400.000
17233.624	0.000
17263.830	400.000
17455.042	0.000
17485.035	3700.000
18013.922	0.000
18082.605	2500.000
18170.962	0.000
18957.167	200.000
19333.680	0.000
19462.681	600.000
19507.355	0.000
19542.811	500.000
19622.789	0.000
19721.689	1200.000
19803.238	0.000
19888.886	2100.000
19990.650	0.000
20133.081	1200.000
20214.913	0.000
20582.818	250.000
20738.061	0.000
20759.563	250.000
20869.824	0.000
21681.312	6000.000
21716.748	0.000
23090.843	1000.000
23193.388	0.000
23436.610	3000.000
23508.717	0.000
24048.790	275.000
24431.310	0.000
24997.050	250.000
25349.028	0.000
25590.415	250.000
25789.509	0.000
25814.131	250.000
26012.516	0.000
27136.043	2500.000
27220.450	0.000
27309.254	1200.000
27404.249	0.000
27669.137	2500.000
27752.151	0.000
27875.721	1200.000
27975.554	0.000

Toda la información contenida en este documento es propiedad de Alstom

1018

010827

28380.320	0.000
28785.086	1200.000
28884.919	0.000
29008.489	2500.000
29091.503	0.000
29356.391	1200.000
29451.386	0.000
29540.190	2500.000
29624.597	0.000
30748.124	250.000
30946.509	0.000
30971.131	250.000
31170.225	0.000
31411.612	250.000
31763.590	0.000
32329.330	275.000
32711.850	0.000
33251.923	3000.000
33324.030	0.000
33567.252	1000.000
33669.797	0.000
35043.892	6000.000
35079.328	0.000
35890.816	250.000
36001.077	0.000
36022.579	250.000
36177.822	0.000
36545.727	1200.000
36627.559	0.000
36769.990	2100.000
36871.754	0.000
36957.402	1200.000
37038.951	0.000
37137.851	500.000
37217.829	0.000
37253.285	600.000
37297.959	0.000
37426.960	200.000
37803.473	0.000
38589.678	2500.000
38678.035	0.000
38746.718	3700.000
39275.605	0.000
39305.598	400.000
39496.810	0.000
39527.016	1400.000
39598.695	0.000
39790.095	350.000
40003.696	0.000
40256.522	1100.000
40352.292	0.000
40395.282	300.000
40726.084	0.000
41083.576	3000.000
41140.125	0.000

010328

1019

41361.860	200.000
41595.377	0.000
41668.549	200.000
41959.243	0.000
42246.818	5000.000
42313.577	0.000
43444.904	12000.000
43492.028	0.000
44083.031	200.000
44253.402	0.000
44896.378	200.000
45121.413	0.000
45343.271	225.000
45577.089	0.000
45765.518	250.000
45949.830	0.000
47190.400	1200.000
47325.294	0.000
47705.572	750.000
48006.861	0.000
48433.098	200.000
48729.447	0.000
48749.932	200.000
49040.626	0.000
49170.947	450.000
49385.250	0.000
50179.272	2100.000
50261.739	0.000
50286.637	200.000
50591.926	0.000
50630.472	1000.000
50731.966	0.000
50984.112	500.000
51236.376	0.000
51603.144	550.000
51809.374	0.000
51922.383	200.000
52168.959	0.000
52350.724	0.000

010329

1020

COMMENTS_CATEGORIES	1.000	
START_COMMENTS_CATEGORY_1	Stations	39.000
4409.916	Tláhuac	
5892.459	Tlaltenco	
7027.862	Zapotitlan	
8567.407	Nopalera	
10013.120	Olivos	
10739.000	San Lorenzo	
12418.210	Periférico Oriente	
13637.340	Calle 11	
14710.070	La Virgen	
15877.410	Estime Culhuacan	
17059.850	Barrio Tula	
19371.690	Atlalilco	
20951.820	Mexicaltizingo	
22906.520	Ermita	
23951.310	Eje Central	
25381.350	Parque de los Venados	
26093.850	Zapata	
26694.000	20 Noviembre	
27568.980	Insurgentes	
28380.320	Mixcoac	
29191.660	Insurgentes	
30066.640	20 Noviembre	
30666.790	Zapata	
31379.290	Parque de los Venados	
32809.330	Eje Central	
33854.120	Ermita	
35808.820	Mexicaltizingo	
37388.950	Atlalilco	
39700.790	Barrio Tula	
40883.230	Esime Culhuacan	
42050.570	La Virgen	
43123.300	Calle 11	
44342.430	Periférico Oriente	
46021.640	San Lorenzo	
46747.520	Olivos	
48193.233	Nopalera	
49732.778	Zapotitlan	
50868.181	Tlaltenco	
52350.724	Tláhuac	
SPEED_LIMITS_CATEGORIES	1.000	
START_SPEED_LIMITS_CATEGORY_1	Speed Limits	86.000
4409.916	80.000	
4591.681	50.912	
4838.257	80.000	
6168.714	50.912	
6474.003	80.000	
7375.390	76.368	
7589.693	80.000	
7720.014	50.912	
8010.708	80.000	
8031.193	50.912	
8327.542	80.000	
10810.810	56.921	

010330

1021

10995.122	80.000
11183.551	54.000
11417.369	80.000
11639.227	50.912
11864.262	80.000
12507.238	50.912
12677.609	80.000
14801.397	50.912
15092.091	80.000
15165.263	50.912
15398.780	80.000
16034.556	62.354
16365.358	80.000
16756.944	67.350
16970.545	80.000
17263.830	72.000
17455.042	80.000
18957.167	50.912
19333.680	80.000
20582.818	56.921
20738.061	80.000
20759.563	56.921
20869.824	80.000
24048.790	59.699
24431.310	80.000
24997.050	56.921
25349.028	80.000
25590.415	56.921
25789.509	80.000
25814.131	56.921
26012.516	80.000
30748.124	56.921
30946.509	80.000
30971.131	56.921
31170.225	80.000
31411.612	56.921
31763.590	80.000
32329.330	59.699
32711.850	80.000
35890.816	56.921
36001.077	80.000
36022.579	56.921
36177.822	80.000
37426.960	50.912
37803.473	80.000
39305.598	72.000
39496.810	80.000
39790.095	67.350
40003.696	80.000
40395.282	62.354
40726.084	80.000
41361.860	50.912
41595.377	80.000
41668.549	50.912
41959.243	80.000

1022

010301

44083.031	50.912	
44253.402	80.000	
44896.378	50.912	
45121.413	80.000	
45343.271	54.000	
45577.089	80.000	
45765.518	56.921	
45949.830	80.000	
48433.098	50.912	
48729.447	80.000	
48749.932	50.912	
49040.626	80.000	
49170.947	76.368	
49385.250	80.000	
50286.637	50.912	
50591.926	80.000	
51922.383	50.912	
52168.959	80.000	
52350.724	80.000	

010332

1023

CHARACTERISTIC CURVE - MEXICO L12**Revision History**

REV.	DESCRIPTION	DATE	RESPONSIBLE		
			ELAB.	CHECK.	APPROV.
00	Characteristic_R00	3-Nov-09	R.Valentim	M.Chagas	P.Decottignies
	AW1 Carga Normal 4p/m ² - Normal Mode				
	AW2 Carga Nominal 6p/m ² - Normal Mode				
	AW3 Carga Nominal 8p/m ² - Normal Mode				
	AW4 Carga Nominal 10p/m ² - Normal Mode				

010333

1024

010334

time(s)	speed(km/h)	F(kN)	F_elec(kN)	F_brakeP(kN)	gamma(m/s2)
110	80.1971294	365.2776	309.39443	55.88316405	1.100028214
110.1	79.8011289	365.3459	310.31323	55.03264065	1.099997572
110.2	79.4051298	365.417	312.143	53.2739748	1.099997361
110.3	79.0091307	365.4879	313.97278	51.5150752	1.099997887
110.4	78.6131315	365.5584	315.80759	49.75082659	1.099997744
110.5	78.2171322	365.6289	317.64253	47.98641517	1.099998294
110.6	77.8211326	365.699	319.47747	46.22155499	1.099998841
110.7	77.4251329	365.769	321.3124	44.45660052	1.09999922
110.8	77.0291329	365.8386	323.14734	42.69130552	1.100000368
110.9	76.6331329	365.9078	324.98228	40.92549653	1.09999999
111	76.2371329	365.9769	326.81721	39.1596469	1.100000215
111.1	75.8411328	366.0452	328.65196	37.39322694	1.100000101
111.2	75.445133	366.1134	330.48644	35.62692654	1.099999101
111.3	75.0491334	366.1814	332.32091	33.86052101	1.099998817
111.4	74.6531339	366.2493	334.15568	32.09362062	1.099998649
111.5	74.2571343	366.3172	335.9905	30.32666342	1.099999089
111.6	73.8611345	366.3843	337.82536	28.55897439	1.099999438
111.7	73.4651348	366.4514	339.66032	26.79104056	1.099998963
111.8	73.0691351	366.5182	341.49528	25.02287896	1.099999259
111.9	72.6731355	366.5845	343.33024	23.25426534	1.099998674
112	72.2771361	366.6508	345.16519	21.48564583	1.099998511
112.1	71.8811365	366.7169	347.00015	19.7167032	1.099998744
112.2	71.4851369	366.7828	348.8351	17.94768266	1.099998975
112.3	71.0891371	366.8485	350.67006	16.17841329	1.099999954
112.4	70.6931371	366.9136	352.50501	14.4086025	1.099999884
112.5	70.2971371	366.9787	354.33996	12.63877394	1.100000057
112.6	69.901137	367.0431	356.28595	10.75714669	1.100000212
112.7	69.5051372	367.1072	358.5657	8.541537038	1.099999153
112.8	69.1091376	367.1713	360.84545	6.325861024	1.099998788
112.9	68.7131381	367.2352	363.14418	4.090997992	1.099998614
113	68.3171385	367.299	365.45013	1.848886657	1.099998991
113.1	67.9211387	367.3622	367.36224	0	1.099999613
113.2	67.525139	367.4252	367.4252	0	1.099998894
113.3	67.1291394	367.488	367.48801	0	1.099998954
113.4	66.7331399	367.5504	367.55035	0	1.099998567
113.5	66.3371405	367.6127	367.61268	0	1.099998352
113.6	65.941141	367.6747	367.6747	0	1.099998632
113.7	65.5451415	367.7366	367.73658	0	1.099998737
113.8	65.1491417	367.7983	367.79832	0	1.099999494
113.9	64.7531418	367.8594	367.8594	0	1.099999627
114	64.357142	367.9205	367.92047	0	1.099999638
114.1	63.961142	367.9809	367.98094	0	1.099999898
114.2	63.5651423	368.0411	368.04109	0	1.099999001
114.3	63.1691428	368.1012	368.10119	0	1.099998606
114.4	62.7731433	368.1611	368.16105	0	1.099998538
114.5	62.3771437	368.2209	368.22091	0	1.099998867
114.6	61.9811439	368.2802	368.28016	0	1.099999601
114.7	61.5851443	368.3391	368.33905	0	1.09999885
114.8	61.1891447	368.3978	368.39783	0	1.099998704
114.9	60.7931453	368.4562	368.4562	0	1.099998441
115	60.3971459	368.5145	368.51452	0	1.099998131
115.1	60.0011465	368.5726	368.57256	0	1.099998475
115.2	59.605147	368.6304	368.63039	0	1.0999985
115.3	59.2091474	368.6882	368.68817	0	1.099999091

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115.4	58.8131476	368.7452	368.7452	1.099999408	0
115.5	58.4171479	368.8022	368.8022	1.099999225	0
115.6	58.021148	368.8588	368.8587	1.099999792	0
115.7	57.6251484	368.9149	368.9149	1.099998808	0
115.8	57.229149	368.9711	368.9710	1.099998415	0
115.9	56.8331495	369.0269	369.0269	1.099998435	0
116	56.43715	369.0828	369.0827	1.0999987	0
116.1	56.0411502	369.1382	369.1382	1.09999717	0
116.2	55.6451504	369.1933	369.1933	1.099999522	0
116.3	55.2491505	369.2483	369.2483	1.099999816	0
116.4	54.8531504	369.3026	369.3026	1.100000073	0
116.5	54.4571505	369.3569	369.3569	1.099999551	0
116.6	54.0611507	369.4108	369.4108	1.099999702	0
116.7	53.6651509	369.4644	369.4644	1.099999225	0
116.8	53.2691512	369.5179	369.5179	1.099999118	0
116.9	52.8731515	369.5711	369.5710	1.099999178	0
117	52.4771518	369.6241	369.6241	1.099999066	0
117.1	52.081152	369.6769	369.6769	1.099999643	0
117.2	51.6851521	369.7294	369.7294	1.099999781	0
117.3	51.289152	369.7818	369.7818	1.100000347	0
117.4	50.8931517	369.8335	369.8334	1.100000901	0
117.5	50.4971516	369.885	369.8850	1.10000016	0
117.6	50.1011516	369.9363	369.9362	1.100000128	0
117.7	49.7051517	369.9873	369.9872	1.099999771	0
117.8	49.3091518	370.0382	370.0381	1.099999738	0
117.9	48.9131518	370.0885	370.0885	1.09999998	0
118	48.517152	370.1387	370.1387	1.099999356	0
118.1	48.1211523	370.1887	370.1887	1.099999452	0
118.2	47.7251526	370.2383	370.2382	1.099998986	0
118.3	47.329153	370.2878	370.2875	1.099998751	0
118.4	46.9331535	370.3369	370.3369	1.099998817	0
118.5	46.5371539	370.3859	370.3859	1.099998652	0
118.6	46.1411543	370.4347	370.4347	1.099999084	0
118.7	45.7451545	370.4832	370.4832	1.099999382	0
118.8	45.3491546	370.5317	370.5316	1.099999744	0
118.9	44.9531544	370.5793	370.5793	1.100000588	0
119	44.5571545	370.6269	370.6267	1.099999853	0
119.1	44.1611545	370.6742	370.6741	1.099999861	0
119.2	43.7651547	370.7212	370.7211	1.099999584	0
119.3	43.3691549	370.7681	370.7681	1.099999431	0
119.4	42.973155	370.8144	370.8143	1.09999973	0
119.5	42.5771553	370.8606	370.8606	1.099999127	0
119.6	42.1811556	370.9065	370.9065	1.099999062	0
119.7	41.7851561	370.9521	370.9521	1.09999869	0
119.8	41.3891567	370.9977	370.9977	1.099998323	0
119.9	40.9931572	371.0427	371.0425	1.099998621	0
120	40.5971578	371.0878	371.0876	1.099998294	0
120.1	40.2011583	371.1326	371.1325	1.099998618	0
120.2	39.8051586	371.177	371.1770	1.099998986	0
120.3	39.4091589	371.2213	371.2213	1.099999204	0
120.4	39.0131591	371.2652	371.2651	1.099999688	0
120.5	38.6171592	371.3087	371.3087	1.099999495	0
120.6	38.2211594	371.352	371.3520	1.099999487	0
120.7	37.8251596	371.395	371.3950	1.099999341	0
120.8	37.4291599	371.438	371.438	1.099999175	0

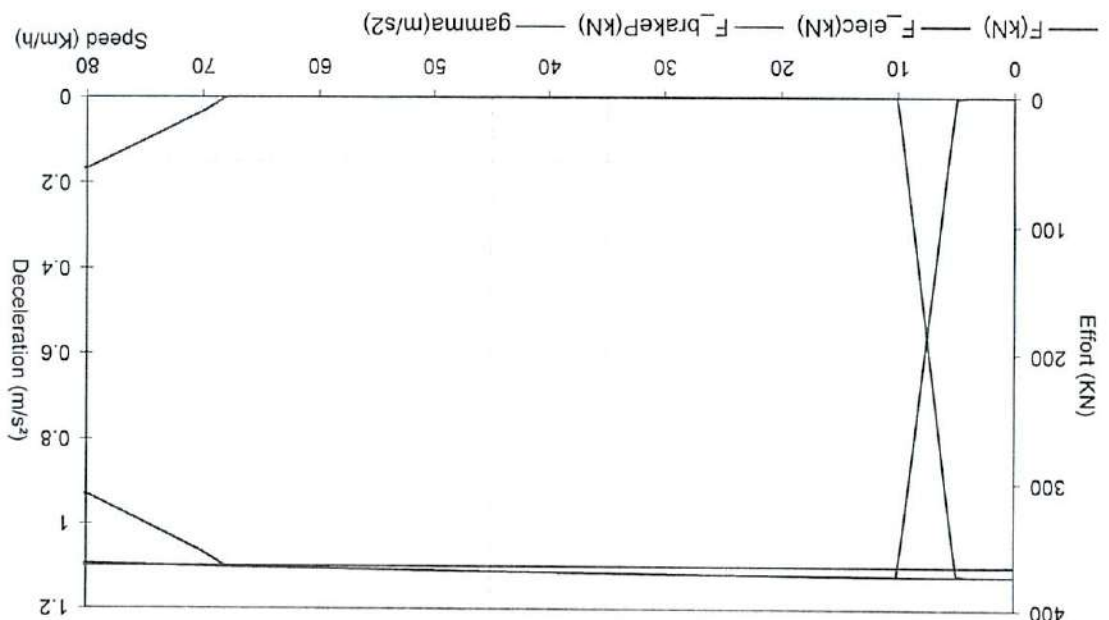
120.9	37.0331601	371.4803	371.48027	0	1.09999964
121	36.6371605	371.5225	371.52245	0	1.099998843
121.1	36.241161	371.5644	371.56437	0	1.099998597
121.2	35.8451616	371.6059	371.60595	0	1.099998355
121.3	35.4491623	371.6475	371.64751	0	1.099997916
121.4	35.053163	371.6886	371.68859	0	1.099998189
121.5	34.6571638	371.7296	371.72962	0	1.099997873
121.6	34.2611644	371.7704	371.77037	0	1.099998135
121.7	33.865165	371.8108	371.81085	0	1.09999838
121.8	33.4691655	371.8512	371.85116	0	1.099998623
121.9	33.0731658	371.891	371.89099	0	1.099999128
122	32.6771661	371.9306	371.93062	0	1.099999118
122.1	32.2811664	371.9699	371.96994	0	1.099999119
122.2	31.8851667	372.0089	372.00894	0	1.099999202
122.3	31.4891671	372.0478	372.04777	0	1.099998913
122.4	31.0931674	372.0861	372.08615	0	1.09999908
122.5	30.697168	372.1243	372.12431	0	1.099998558
122.6	30.3011686	372.1622	372.16216	0	1.099998242
122.7	29.9051694	372.1998	372.1998	0	1.099997882
122.8	29.5091703	372.2372	372.23722	0	1.099997603
122.9	29.1131712	372.2744	372.27444	0	1.099997461
123	28.7171721	372.3115	372.31146	0	1.099997447
123.1	28.321173	372.3482	372.3482	0	1.099997598
123.2	27.9251737	372.3847	372.38469	0	1.099997815
123.3	27.5291744	372.4209	372.42088	0	1.099998101
123.4	27.133175	372.4568	372.45678	0	1.099998363
123.5	26.7371756	372.4924	372.49244	0	1.099998403
123.6	26.3411761	372.5277	372.5277	0	1.099998496
123.7	25.9451767	372.5628	372.56282	0	1.099998469
123.8	25.5491772	372.5978	372.59778	0	1.099998418
123.9	25.1531776	372.6323	372.6323	0	1.099998847
124	24.757178	372.6667	372.66668	0	1.099998956
124.1	24.3611783	372.7008	372.70084	0	1.099999094
124.2	23.9651784	372.7346	372.73456	0	1.099999632
124.3	23.5691785	372.7679	372.76793	0	1.099999695
124.4	23.1731786	372.8011	372.80111	0	1.099999597
124.5	22.7771789	372.834	372.83404	0	1.099999412
124.6	22.3811791	372.8665	372.8665	0	1.099999356
124.7	21.9851794	372.8987	372.89872	0	1.099999301
124.8	21.58918	372.9307	372.93071	0	1.099998559
124.9	21.1931808	372.9626	372.96258	0	1.099998031
125	20.7971816	372.9943	372.99428	0	1.099997803
125.1	20.4011823	373.0256	373.02559	0	1.099997902
125.2	20.005183	373.0567	373.05674	0	1.099998139
125.3	19.6091836	373.0875	373.08752	0	1.099998135
125.4	19.2131843	373.1182	373.11823	0	1.099998138
125.5	18.8171848	373.1485	373.14851	0	1.099998364
125.6	18.4211853	373.1787	373.17867	0	1.099998601
125.7	18.0251856	373.2084	373.20836	0	1.099998888
125.8	17.6291859	373.2379	373.23791	0	1.099999135
125.9	17.2331862	373.2669	373.26692	0	1.099999223
126	16.8371865	373.2959	373.29587	0	1.099999267
126.1	16.4411869	373.3244	373.32435	0	1.099998981
126.2	16.0451874	373.3528	373.35284	0	1.099998695
126.3	15.649188	373.381	373.38099	0	1.099998527

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126.4	15.2531886	373.4091	373.40911	0	1.099998368
126.5	14.857189	373.4366	373.43662	0	1.099998608
126.6	14.4611891	373.4638	373.46376	0	1.099999095
126.7	14.0651894	373.4908	373.49083	0	1.099999434
126.8	13.66919	373.5176	373.51755	0	1.099998969
126.9	13.2731906	373.5443	373.54428	0	1.099998505
127	12.8771911	373.5706	373.57056	0	1.099998413
127.1	12.4811914	373.5964	373.59641	0	1.099998682
127.2	12.0851918	373.6223	373.62225	0	1.099998951
127.3	11.6891922	373.6476	373.6476	0	1.099998978
127.4	11.2931927	373.6727	373.67266	0	1.099998864
127.5	10.8971932	373.6977	373.69772	0	1.099998749
127.6	10.5011937	373.7223	373.7223	0	1.099998866
127.7	10.1051942	373.7463	373.74629	0	1.099998603
127.8	9.70919476	373.7703	349.95999	23.81028428	1.099998545
127.9	9.31319531	373.7943	320.6348	53.15945447	1.099998488
128	8.91719646	373.8143	291.30966	82.50459862	1.099998091
128.1	8.52119772	373.8335	261.98453	111.848946	1.099997627
128.2	8.12519898	373.8527	232.65939	141.1932933	1.099997164
128.3	7.72920025	373.8719	203.33425	170.5376452	1.0999967
128.4	7.33321108	373.8688	174.00981	199.8589831	1.09999173
128.5	6.93722983	373.8473	144.68596	229.1613056	1.099983037
128.6	6.54124858	373.8257	115.3621	258.4636339	1.099974344
128.7	6.14526733	373.8042	86.038246	287.7659622	1.099965651
128.8	5.74928607	373.7827	56.714385	317.0682951	1.099956957
128.9	5.35330482	373.7612	27.390521	346.3706307	1.099948264
129	4.95756604	373.7603	1.1749362	372.585374	1.099897991
129.1	4.56183711	373.7603	0.6893724	373.0709379	1.099846028
129.2	4.16610819	373.7603	0.2038085	373.5565018	1.099794065
129.3	3.77037927	373.7603	-2.19E-05	373.7603321	1.099742101
129.4	3.37465034	373.7603	-4.55E-05	373.7603558	1.099690138
129.5	2.97892142	373.7603	-7.04E-05	373.7603807	1.099638175
129.6	2.58319249	373.7603	-0.000118	373.7604286	1.099586212
129.7	2.18746357	373.7603	-0.000166	373.7604765	1.099534248
129.8	1.79173464	373.7603	-0.000265	373.7605752	1.099482285
129.9	1.39600572	373.7603	-0.000409	373.7607197	1.099430322
130	1.0002768	373.7603	-0.000554	373.7608643	1.099378358
130.1	0.60454787	373.7603	-0.000335	373.7606452	1.099326395
130.2	0.20881895	373.7603	-0.000116	373.760426	1.099274432
130.3	0	373.7603	0	373.7603103	1.099247011

010337

MEXICO L12 7C5M AW1 Normal load 4p/m² Electric & Mechanic Braking curve 1650V
wheel Diameter 805mm



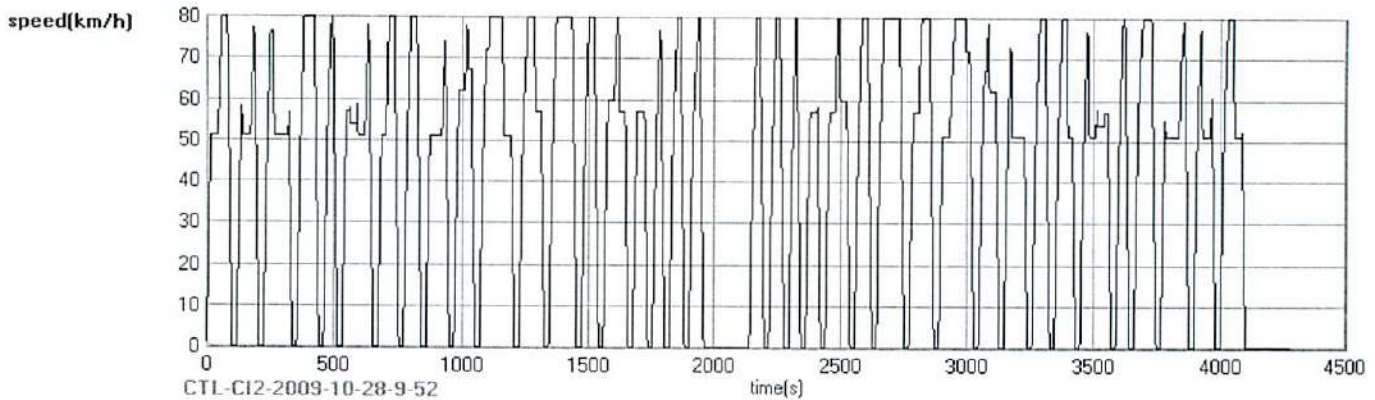
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Handwritten signature in blue ink.

Handwritten mark in red ink.

Handwritten mark in red ink.

010308



Time [s]	4280
Distance [m]	47941
Commercial Speed [Km/h]	40.32
Total Stop Time [s]	972
Running Time	3308
Average Speed [Km/h]	52.17
Stop Time [s]	17
Return time [s]	180
Isf(A)	87.44
IL1(A)	324.53
Isf(A) without stop time	99.46
ILf(A) without stop time	369.15
Eln(kwh)	473.56
Eln_T(kwh)	1242.09
Eln_B(kwh)	768.53

7C 5M AW1 4p/m² Normal Mode

time(s)	distance(m)	speed(km/h)	F(kN)	F_elec(kN)	F_brakeP(kN)	gamma(m/s ²)	Resist(kN)	gradient(0/0)
0	0	0	5.65662	5.65662	0	0	5.65662	0
1	0.576531	2.39319	231.383	231.383	0	0.653527	5.76706	0
2	1.40477	5.23387	397.181	397.181	0	1.13332	5.91079	0
3	3.38562	9.31152	397.181	397.181	0	1.13244	6.14108	0
4	6.52911	13.3864	397.181	397.181	0	1.13162	6.39946	0
5	10.8068	17.4583	397.181	397.181	0	1.13075	6.68584	0
6	16.2203	21.527	397.181	397.181	0	1.12982	7.00016	0
7	22.7641	25.5923	397.182	397.182	0	1.12881	7.34231	0
8	30.4373	29.6539	397.191	397.191	0	1.12776	7.71221	0
9	39.2355	33.6898	392	392	0	1.11333	8.10755	0
10	49.1415	37.5772	357.664	357.664	0	1.02394	8.51452	0
11	60.0666	41.0135	319.097	319.097	0	0.904772	8.89566	0
12	71.8977	44.1266	294.458	294.458	0	0.831414	9.25828	0
13	84.5592	47.0011	275.843	275.843	0	0.774511	9.60774	0
14	97.9929	49.6979	260.071	260.071	0	0.72745	9.94838	0
15	112.063	50.9117	10.1057	10.1057	0	0	10.1057	0

010340

16	126.205	50.9117	10.1057	10.1057	0	0	10.1057	0
17	140.347	50.9117	10.1057	10.1057	0	0	10.1057	0
18	154.489	50.9117	10.1057	10.1057	0	0	10.1057	0
19	168.631	50.9117	10.1057	10.1057	0	0	10.1057	0
20	182.773	50.9117	22.8904	22.8904	0	0	22.8004	0
21	196.915	50.9117	24.1636	24.1636	0	0	24.0736	0
22	211.058	50.9117	33.3824	33.3824	0	0	33.182	5
23	225.2	50.9117	36.2168	36.2168	0	0	36.0164	5
24	239.342	50.9117	39.0513	39.0513	0	0	38.8508	5
25	253.484	50.9117	35.339	35.339	0	0	35.2286	5
26	267.626	50.9117	36.9002	36.9002	0	0	36.7898	5
27	281.768	50.9117	38.1651	38.1651	0	0	38.1651	5
28	295.91	50.9117	38.1651	38.1651	0	0	38.1651	5
29	310.053	50.9117	38.1651	38.1651	0	0	38.1651	5
30	324.195	50.9117	38.1651	38.1651	0	0	38.1651	5
31	338.337	50.9117	38.1651	38.1651	0	0	38.1651	5
32	352.479	50.9117	38.1651	38.1651	0	0	38.1651	5
33	366.621	50.9117	38.1651	38.1651	0	0	38.1651	5
34	380.763	50.9117	38.1651	38.1651	0	0	38.1651	5
35	394.905	50.9117	38.1651	38.1651	0	0	38.1651	5
36	409.048	50.9117	38.1651	38.1651	0	0	38.1651	5
37	423.19	50.9117	38.1651	38.1651	0	0	38.1651	5
38	437.332	50.9117	30.9637	30.9637	0	0	31.0537	5
39	451.474	50.9117	29.6905	29.6905	0	0	29.7806	5
40	465.616	50.9117	28.4173	28.4173	0	0	28.5074	5
41	479.758	50.9117	28.1374	28.1374	0	0	28.2455	5
42	493.9	50.9117	26.7448	26.7448	0	0	26.8347	5
43	508.106	51.7909	249.358	249.358	0	0.622617	25.6768	5
44	522.811	54.0637	238.004	238.004	0	0.616049	25.9815	5
45	538.131	56.222	228.229	228.229	0	0.586379	26.2791	5
46	554.032	58.2435	219.796	219.796	0	0.546495	31.5633	5
47	570.48	60.1617	211.982	211.982	0	0.521022	32.3795	5
48	587.448	62.002	206.446	206.446	0	0.502524	33.2072	5
49	604.919	63.7768	201.107	201.107	0	0.484576	34.0472	5
50	622.875	65.5052	196.093	196.093	0	0.475174	32.2323	5
51	641.306	67.1897	191.643	191.643	0	0.461486	32.4966	5
52	660.199	68.8258	187.322	187.322	0	0.448181	32.7579	5
53	679.539	70.415	183.115	183.115	0	0.436262	32.6589	5
54	699.316	71.9779	178.954	178.954	0	0.432297	29.8603	5
55	719.525	73.5272	174.829	174.829	0	0.428627	26.9968	5
56	740.163	75.0637	170.738	170.738	0	0.425243	24.069	5
57	761.228	76.6061	166.634	166.634	0	0.429937	18.3418	-2
58	782.722	78.1518	162.521	162.521	0	0.428885	14.5876	-2
59	804.645	79.6924	137.888	137.888	0	0.404771	10.7562	-2
60	826.856	80	8.4435	8.4435	0	0	8.4435	-2
61	849.078	80	8.4435	8.4435	0	0	8.4435	-2
62	871.301	80	8.4435	8.4435	0	0	8.4435	-2
63	893.523	80	8.4435	8.4435	0	0	8.4435	-2
64	915.745	80	8.4435	8.4435	0	0	8.4435	-2
65	937.967	80	8.4435	8.4435	0	0	8.4435	-2
66	960.189	80	8.4435	8.4435	0	0	8.4435	-2
67	982.412	80	8.4435	8.4435	0	0	8.4435	-2
68	1004.63	80	8.4435	8.4435	0	0	8.4435	-2
69	1026.86	80	8.4435	8.4435	0	0	8.4435	-2
70	1049.08	80	8.4435	8.4435	0	0	8.4435	-2

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71	1071.3	80	8.4435	8.4435	0	0	8.4435	-2
72	1093.52	80	8.4435	8.4435	0	0	8.4435	-2
73	1115.74	80	13.5713	13.5713	0	0	13.5353	-2
74	1137.97	80	14.3715	14.3715	0	0	14.3355	-2
75	1160.19	80	15.1718	15.1718	0	0	15.1358	-2
76	1182.41	80	15.972	15.972	0	0	15.936	-2
77	1204.63	80	13.4851	13.4851	0	0	13.4851	-2
78	1226.86	80	13.4851	13.4851	0	0	13.4851	-2
79	1249.08	80	13.4851	13.4851	0	0	13.4851	-2
80	1271.07	77.727	-360.039	-319.92	-40.1184	-1.05129	13.1237	-2
81	1292.11	73.776	-366.395	-338.22	-28.1747	-1.0995	13.3698	-2
82	1312.05	69.813	-367.056	-356.245	-10.8109	-1.10206	13.592	-2
83	1330.89	65.841	-367.689	-367.473	-0.215886	-1.10446	13.7907	-2
84	1348.63	61.8606	-368.294	-368.294	0	-1.10673	13.9663	0
85	1365.26	57.8723	-368.742	-368.742	0	-1.10872	14.1188	0
86	1380.79	53.9043	-369.428	-369.428	0	-1.10206	11.2211	0
87	1395.21	49.9362	-369.956	-369.849	-0.107271	-1.10241	10.8133	0
88	1408.53	45.967	-370.454	-369.846	-0.608321	-1.10272	10.4231	0
89	1420.74	41.999	-370.923	-369.845	-1.07787	-1.10164	9.58001	0
90	1431.86	38.0354	-371.367	-369.846	-1.52079	-1.10048	8.73522	0
91	1441.88	34.0751	-371.785	-369.847	-1.93769	-1.09999	8.14674	0
92	1450.79	30.1151	-372.179	-369.851	-2.32756	-1.1	7.75599	0
93	1458.6	26.1552	-372.542	-369.851	-2.69074	-1.09999	7.3919	0
94	1465.32	22.1952	-372.877	-369.852	-3.02551	-1.09998	7.05446	0
95	1470.94	18.2353	-373.187	-369.852	-3.33529	-1.09998	6.74369	0
96	1475.44	14.2753	-373.472	-369.852	-3.6199	-1.09999	6.45957	0
97	1478.86	10.3153	-373.724	-369.852	-3.87209	-1.1	6.20211	0
98	1481.15	6.35556	-350.734	-101.166	-249.568	-1.09992	5.97132	0
99	1482.25	3.09177	-222.362	-0.758723	-221.604	-0.988757	5.80113	0
100	1482.83	0.713122	-222.362	-0.175001	-222.187	-0.736395	5.68851	0
101	1483	0	0	0	0	0	5.65662	0
102	1483	0	0	0	0	0	5.65662	0
103	1483	0	0	0	0	0	5.65662	0
104	1483	0	0	0	0	0	5.65662	0
105	1483	0	0	0	0	0	5.65662	0
106	1483	0	0	0	0	0	5.65662	0
107	1483	0	0	0	0	0	5.65662	0
108	1483	0	0	0	0	0	5.65662	0
109	1483	0	0	0	0	0	5.65662	0
110	1483	0	0	0	0	0	5.65662	0
111	1483	0	0	0	0	0	5.65662	0
112	1483	0	0	0	0	0	5.65662	0
113	1483	0	0	0	0	0	5.65662	0
114	1483	0	0	0	0	0	5.65662	0
115	1483	0	0	0	0	0	5.65662	0
116	1483	0	0	0	0	0	5.65662	0
117	1483	0	0	0	0	0	5.65662	0
118	1483.41	1.69381	397.182	397.182	0	4.60E-01	5.73378	0
119	1483.99	4.11285	397.182	397.182	0	1.11711	5.85243	0
120	1485.69	8.14955	397.181	397.181	0	1.13269	6.07258	0
121	1488.51	12.2252	397.181	397.181	0	1.13185	6.32296	0
122	1492.47	16.298	397.181	397.181	0	1.131	6.60136	0
123	1497.56	20.3677	397.181	397.181	0	1.13009	6.90773	0
124	1503.78	24.434	397.181	397.181	0	1.12911	7.24196	0
125	1511.13	28.4966	397.189	397.189	0	1.12807	7.60396	0

010342

126	1519.61	32.5457	393.61	393.61	0	1.1184	7.99267	0
127	1529.2	36.5117	371.097	371.097	0	1.06408	8.40042	0
128	1539.85	40.0578	326.799	326.799	0	0.919293	12.6699	0
129	1551.42	43.1847	301.913	301.913	0	0.828874	17.6269	0
130	1563.81	46.0139	281.616	281.616	0	0.752736	22.8923	0
131	1576.96	48.6065	266.454	266.454	0	0.692303	28.4399	0
132	1590.8	50.9889	253.365	253.365	0	0.636802	34.2461	0
133	1605.27	53.1859	242.39	242.39	0	0.587253	40.2894	18
134	1620.33	55.2046	232.474	232.474	0	0.532474	49.0982	18
135	1635.92	57.0413	224.811	224.811	0	0.490625	55.8323	18
136	1652	58.3193	-368.816	-368.816	0	-1.25241	64.2142	18
137	1667.57	53.8126	-313.228	-313.228	0	-1.16392	69.8126	18
138	1682.08	51.1636	-35.3307	-35.3307	0	-0.362584	70.4375	18
139	1696.23	50.9117	68.2663	68.2663	0	0	68.2663	18
140	1710.38	50.9117	68.2663	68.2663	0	0	68.2663	18
141	1724.52	50.9117	70.4939	70.4939	0	0	70.4346	18
142	1738.66	50.9117	71.3599	71.3599	0	0	71.2969	18
143	1752.8	50.9117	72.2773	72.2773	0	0	72.2107	18
144	1766.95	50.9117	79.5744	79.5744	0	0	79.5023	18
145	1781.09	50.9117	80.5929	80.5929	0	0	80.5209	18
146	1795.23	50.9117	81.7191	81.7191	0	0	81.6291	18
147	1809.37	50.9117	82.9923	82.9923	0	0	82.9023	18
148	1823.51	50.9117	84.2655	84.2655	0	0	84.1755	18
149	1837.66	50.9117	78.3494	78.3494	0	0	78.3494	18
150	1851.8	50.9117	78.3494	78.3494	0	0	78.3494	18
151	1865.94	50.9117	78.3494	78.3494	0	0	78.3494	18
152	1880.08	50.9117	78.3494	78.3494	0	0	78.3494	18
153	1894.22	50.9117	78.3494	78.3494	0	0	78.3494	18
154	1908.37	50.9117	78.3494	78.3494	0	0	78.3494	18
155	1922.51	50.9117	78.3494	78.3494	0	0	78.3494	18
156	1936.65	50.9117	78.3494	78.3494	0	0	78.3494	18
157	1950.79	50.9117	78.3494	78.3494	0	0	78.3494	18
158	1964.94	50.9117	78.3494	78.3494	0	0	78.3494	18
159	1979.08	50.9117	78.3494	78.3494	0	0	78.3494	18
160	1993.22	50.9117	78.3494	78.3494	0	0	78.3494	18
161	2007.36	50.9117	78.3494	78.3494	0	0	78.3494	18
162	2021.5	50.9117	78.3494	78.3494	0	0	78.3494	18
163	2035.65	50.9117	78.3494	78.3494	0	0	78.3494	18
164	2049.79	50.9117	78.3494	78.3494	0	0	78.3494	18
165	2063.93	50.9117	73.7693	73.7693	0	0	78.3494	18
166	2078.07	50.9117	71.5645	71.5645	0	0	71.6883	18
167	2092.21	50.9117	70.6622	70.6622	0	0	70.7436	18
168	2106.36	50.9117	71.2339	71.2339	0	0	71.3799	18
169	2120.5	50.9117	69.2907	69.2907	0	0	69.4203	18
170	2134.64	50.9327	119.357	119.357	0	9.28E-02	67.7587	18
171	2148.96	52.4055	246.288	246.288	0	0.525323	65.51	18
172	2163.77	54.2788	236.93	236.93	0	0.51674	59.0836	18
173	2179.11	56.126	228.63	228.63	0	0.511182	52.5784	18
174	2194.95	57.9577	220.988	220.988	0	0.506877	46.4036	18
175	2211.31	59.7755	213.405	213.405	0	0.503332	40.0267	18
176	2228.16	61.5897	207.686	207.686	0	0.505423	33.4503	0
177	2245.52	63.4161	202.192	202.192	0	0.509008	26.711	0
178	2263.39	65.2554	196.752	196.752	0	0.512878	19.891	0
179	2281.78	67.1132	191.845	191.845	0	0.518969	12.8757	0
180	2300.68	68.9574	186.974	186.974	0	0.505215	12.7404	0

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010340

181	2320.08	70.7485	182.227	182.227	0	0.490593	13.0321	0
182	2339.98	72.4875	177.597	177.597	0	0.476315	13.3206	0
183	2360.35	74.176	173.102	173.102	0	0.46244	13.6056	0
184	2381.18	75.8152	168.739	168.739	0	0.44896	13.8869	0
185	2402.46	77.4067	164.504	164.504	0	0.435866	14.1643	0
186	2423.65	74.3631	-366.296	-335.499	-30.7966	-1.09999	13.6374	0
187	2443.76	70.4032	-366.961	-353.849	-13.1121	-1.1	12.9755	0
188	2462.76	66.4432	-367.593	-365.77	-1.82227	-1.09999	12.3402	0
189	2480.67	62.4833	-368.2	-368.2	0	-1.09998	11.7315	0
190	2497.47	58.5233	-368.782	-368.782	0	-1.09999	11.1495	0
191	2513.18	54.5633	-369.34	-369.34	0	-1.1	10.5942	0
192	2527.79	50.6034	-369.87	-369.849	-2.09E-02	-1.09999	10.0655	0
193	2541.29	46.6434	-370.369	-369.846	-0.522912	-1.09999	9.5635	0
194	2553.7	42.6834	-370.843	-369.845	-0.998001	-1.09998	9.08814	0
195	2565.01	38.7235	-371.292	-369.846	-1.44636	-1.09999	8.63943	0
196	2575.21	34.7635	-371.716	-369.847	-1.86944	-1.1	8.21739	0
197	2584.32	30.8036	-372.113	-369.851	-2.26227	-1.09999	7.82201	0
198	2592.33	26.8436	-372.479	-369.851	-2.62751	-1.09998	7.45328	0
199	2599.23	22.8837	-372.82	-369.852	-2.96811	-1.09998	7.11121	0
200	2605.04	18.9237	-373.135	-369.852	-3.28355	-1.09999	6.7958	0
201	2609.74	14.9637	-373.426	-369.852	-3.57377	-1.09999	6.50705	0
202	2613.34	11.0038	-373.687	-369.852	-3.83482	-1.09999	6.24496	0
203	2615.84	7.04392	-373.865	-151.915	-221.95	-1.09994	6.00953	0
204	2617.15	3.5053	-222.362	-0.860203	-221.502	-1.03263	5.8217	0
205	2617.73	1.12665	-222.362	-0.276481	-222.086	-0.780268	5.7074	0
206	2618	0	0	0	0	0	5.65662	0
207	2618	0	0	0	0	0	5.65662	0
208	2618	0	0	0	0	0	5.65662	0
209	2618	0	0	0	0	0	5.65662	0
210	2618	0	0	0	0	0	5.65662	0
211	2618	0	0	0	0	0	5.65662	0
212	2618	0	0	0	0	0	5.65662	0
213	2618	0	0	0	0	0	5.65662	0
214	2618	0	0	0	0	0	5.65662	0
215	2618	0	0	0	0	0	5.65662	0
216	2618	0	0	0	0	0	5.65662	0
217	2618	0	0	0	0	0	5.65662	0
218	2618	0	0	0	0	0	5.65662	0
219	2618	0	0	0	0	0	5.65662	0
220	2618	0	0	0	0	0	5.65662	0
221	2618	0	0	0	0	0	5.65662	0
222	2618	0	0	0	0	0	5.65662	0
223	2618.31	1.27326	397.182	397.182	0	0.345836	5.71417	0
224	2618.88	3.6923	397.182	397.182	0	1.00E+00	5.83109	0
225	2620.32	7.44073	397.181	397.181	0	1.13284	6.03192	0
226	2622.93	11.5169	397.181	397.181	0	1.132	6.27741	0
227	2626.7	15.5902	397.181	397.181	0	1.13116	6.55095	0
228	2631.59	19.6604	397.181	397.181	0	1.13026	6.85246	0
229	2637.62	23.7273	397.181	397.181	0	1.12928	7.18185	0
230	2644.77	27.7906	397.187	397.187	0	1.12825	7.53903	0
231	2653.05	31.8455	394.595	394.595	0	1.1215	7.92345	0
232	2662.46	35.8413	379.549	379.549	0	1.08935	8.32962	0
233	2672.93	39.4909	333.537	333.537	0	0.951964	8.72431	0
234	2684.36	42.7305	305.508	305.508	0	0.864301	9.09362	0
235	2696.64	45.706	283.417	283.417	0	0.797115	9.44856	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010344

236	2709.73	48.483	267.176	267.176	0	0.750856	9.03462	0
237	2723.57	51.1108	252.756	252.756	0	0.713527	7.23463	0
238	2738.11	53.6196	240.223	240.223	0	0.68255	5.32013	0
239	2753.34	56.0221	229.063	229.063	0	0.65554	3.29609	0
240	2769.23	58.3397	219.394	219.394	0	0.633572	1.16846	0
241	2785.75	60.5814	210.719	210.719	0	0.614346	-1.05907	-7
242	2802.88	62.7693	204.138	204.138	0	0.60195	-3.38115	-7
243	2820.62	64.9138	197.687	197.687	0	0.590203	-5.79481	-7
244	2838.94	67.0207	192.09	192.09	0	0.581077	-8.29778	-7
245	2857.85	69.0888	186.627	186.627	0	0.566887	-8.87605	-7
246	2877.32	71.0985	181.295	181.295	0	0.55046	-8.54793	-7
247	2897.34	73.0498	176.1	176.1	0	0.534434	-8.22278	-7
248	2917.9	74.9442	171.057	171.057	0	0.518858	-7.90089	-7
249	2938.95	76.3675	-7.65505	-7.65505	0	1.86E-03	-7.65505	-7
250	2960.16	76.3675	-7.65505	-7.65505	0	0	-7.65505	-7
251	2981.38	76.3675	-1.37682	-1.37682	0	0	-1.41683	-7
252	3002.59	76.3675	-0.528029	-0.528029	0	0	-0.568041	-7
253	3023.8	76.3675	0.32076	0.32076	0	0	0.280748	-7
254	3045.02	76.3675	3.07261	3.07261	0	0	2.77454	-7
255	3066.23	76.3675	9.39564	9.39564	0	0	9.09757	-7
256	3087.44	76.3675	15.7187	15.7187	0	0	15.4206	-7
257	3108.66	76.3675	22.0417	22.0417	0	0	21.7436	6.5
258	3129.74	74.7491	-301.288	-301.288	0	-0.914878	27.7481	6.5
259	3149.95	70.7094	-366.912	-352.429	-14.483	-1.15811	33.096	6.5
260	3169.01	66.5088	-367.582	-365.585	-1.99732	-1.17438	38.0444	6.5
261	3186.9	62.295	-368.228	-368.228	0	-1.16544	34.3113	6.5
262	3203.62	58.1032	-368.842	-368.842	0	-1.1635	33.0284	6.5
263	3219.18	53.919	-358.776	-358.776	0	-1.15787	31.8228	6.5
264	3233.71	51.1967	-82.1069	-82.1069	0	-0.383341	30.878	6.5
265	3247.87	50.9117	31.0397	31.0397	0	0	31.0077	6.5
266	3262.01	50.9117	30.1979	30.1979	0	0	30.1979	6.5
267	3276.15	50.9117	30.1979	30.1979	0	0	30.1979	6.5
268	3290.29	50.9117	30.1979	30.1979	0	0	30.1979	6.5
269	3304.44	50.9117	30.1979	30.1979	0	0	30.1979	6.5
270	3318.58	50.9117	43.6551	43.6551	0	0	43.5651	6.5
271	3332.72	50.9117	44.9283	44.9283	0	0	44.8383	6.5
272	3346.86	50.9117	46.2015	46.2015	0	0	46.1114	6.5
273	3361.01	50.9117	47.4747	47.4747	0	0	47.3846	6.5
274	3375.15	50.9117	48.7478	48.7478	0	0	48.6578	6.5
275	3389.29	50.9117	42.8018	42.8018	0	0	42.8018	6.5
276	3403.43	50.9117	42.8018	42.8018	0	0	42.8018	6.5
277	3417.57	50.9117	42.8018	42.8018	0	0	42.8018	6.5
278	3431.72	50.9117	42.8018	42.8018	0	0	42.8018	6.5
279	3445.86	50.9117	42.8018	42.8018	0	0	42.8018	6.5
280	3460	50.9117	42.8018	42.8018	0	0	42.8018	6.5
281	3474.14	50.9117	42.8018	42.8018	0	0	42.8018	6.5
282	3488.28	50.9117	42.8018	42.8018	0	0	42.8018	6.5
283	3502.43	50.9117	42.8018	42.8018	0	0	42.8018	6.5
284	3516.57	50.9117	42.8018	42.8018	0	0	42.8018	6.5
285	3530.71	50.9117	42.8018	42.8018	0	0	42.8018	6.5
286	3544.85	50.9117	42.8018	42.8018	0	0	42.8018	6.5
287	3558.99	50.9117	42.8018	42.8018	0	0	42.8018	6.5
288	3573.14	50.9117	42.8018	42.8018	0	0	42.8018	6.5
289	3587.28	50.9117	42.8018	42.8018	0	0	42.8018	6.5
290	3601.42	50.9117	41.7864	41.7864	0	0	41.8429	6.5

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291	3615.56	50.9117	41.1217	41.1217	0	0	41.1601	6.5
292	3629.71	50.9117	47.259	47.259	0	0	47.259	6.5
293	3643.85	50.9117	47.259	47.259	0	0	47.259	6.5
294	3657.99	50.9117	47.259	47.259	0	0	47.259	6.5
295	3672.13	50.9117	47.4699	47.4699	0	0	47.3799	6.5
296	3686.27	50.9117	48.7431	48.7431	0	0	48.653	6.5
297	3700.42	50.9117	42.8018	42.8018	0	0	42.8018	6.5
298	3714.56	50.9117	42.8018	42.8018	0	0	42.8018	6.5
299	3728.7	50.9117	42.8018	42.8018	0	0	42.8018	6.5
300	3742.84	50.9117	42.8018	42.8018	0	0	42.8018	6.5
301	3756.98	50.9117	42.8018	42.8018	0	0	42.8018	6.5
302	3771.13	50.9117	42.8018	42.8018	0	0	42.8018	6.5
303	3785.27	50.9117	42.8018	42.8018	0	0	42.8018	6.5
304	3799.41	50.9117	42.8018	42.8018	0	0	42.8018	6.5
305	3813.55	50.9117	42.8018	42.8018	0	0	42.8018	6.5
306	3827.7	50.9117	42.8018	42.8018	0	0	42.8018	6.5
307	3841.84	50.9117	42.8018	42.8018	0	0	42.8018	6.5
308	3855.98	50.9117	42.8018	42.8018	0	0	42.8018	6.5
309	3870.12	50.9117	42.8018	42.8018	0	0	42.8018	6.5
310	3884.26	50.9117	42.8018	42.8018	0	0	42.8018	6.5
311	3898.41	50.9117	42.8018	42.8018	0	0	42.8018	6.5
312	3912.55	50.9117	42.8018	42.8018	0	0	42.8018	6.5
313	3926.69	50.9117	34.387	34.387	0	0	34.6206	6.5
314	3940.83	50.9117	31.0842	31.0842	0	0	31.3178	6.5
315	3954.97	50.9117	27.7814	27.7814	0	0	28.015	6.5
316	3969.12	50.9117	24.4786	24.4786	0	0	24.7122	6.5
317	3983.26	50.9117	21.1758	21.1758	0	0	21.4094	6.5
318	3997.47	51.8502	249.062	249.062	0	0.64204	19.0995	0
319	4012.2	54.1973	237.337	237.337	0	0.639329	17.3005	0
320	4027.57	56.4499	227.278	227.278	0	0.615183	15.406	0
321	4043.48	56.8024	-369.027	-369.027	0	-1.10655	13.1725	0
322	4058.71	52.8311	-369.572	-369.572	0	-1.10022	10.442	0
323	4072.83	48.8711	-370.09	-369.848	-0.241692	-1.09999	9.84263	0
324	4085.86	44.9112	-370.583	-369.845	-0.738062	-1.1	9.35227	0
325	4097.78	40.9512	-371.046	-369.845	-1.20022	-1.09999	8.88858	0
326	4108.61	36.9912	-371.48	-369.846	-1.63383	-1.09998	8.45154	0
327	4118.33	33.0313	-371.89	-369.848	-2.04119	-1.09998	8.04115	0
328	4126.96	29.0713	-372.274	-369.851	-2.42314	-1.09999	7.65743	0
329	4134.48	25.1114	-372.634	-369.852	-2.78269	-1.1	7.30037	0
330	4140.91	21.1514	-372.964	-369.852	-3.11263	-1.09999	6.96996	0
331	4146.23	17.1914	-373.266	-369.852	-3.41389	-1.09998	6.66621	0
332	4150.45	13.2315	-373.542	-369.852	-3.69007	-1.09999	6.38912	0
333	4153.57	9.27154	-373.78	-316.146	-57.6336	-1.09998	6.13869	0
334	4155.55	5.31193	-290.309	-24.2242	-266.085	-1.09986	5.91493	0
335	4156.4	2.46478	-222.362	-0.604859	-221.758	-0.922237	5.77051	0
336	4156.98	8.61E-02	-222.362	-2.11E-02	-222.341	-0.669874	5.66043	0
337	4157	0	0	0	0	0	5.65662	0
338	4157	0	0	0.00E+00	0	0	5.65662	0
339	4157	0	0	0	0	0	5.65662	0
340	4157	0	0	0	0	0	5.65662	0
341	4157	0	0	0	0	0	5.65662	0
342	4157	0	0	0	0	0	5.65662	0
343	4157	0	0	0	0	0	5.65662	0
344	4157	0	0	0	0	0	5.65662	0
345	4157	0	0	0	0	0	5.65662	0

346	4157	0	0	0	0	0	5.65662	0
347	4157	0	0	0	0	0	5.65662	0
348	4157	0	0	0	0	0	5.65662	0
349	4157	0	0	0	0	0	5.65662	0
350	4157	0	0	0	0	0	5.65662	0
351	4157	0	0	0	0	0	5.65662	0
352	4157	0	0	0	0	0	5.65662	0
353	4157	0	0	0	0	0	5.65662	0
354	4157.56	2.33145	397.182	397.182	0	0.633255	5.76409	0
355	4158.36	5.14644	397.181	397.181	0	1.13334	5.90616	0
356	4160.32	9.22414	397.181	397.181	0	1.13246	6.13585	0
357	4163.44	13.299	397.181	397.181	0	1.13163	6.39362	0
358	4167.7	17.371	397.181	397.181	0	1.13077	6.67941	0
359	4173.08	21.4399	397.181	397.181	0	1.12984	6.99313	0
360	4179.61	25.5052	397.182	397.182	0	1.12884	7.33469	0
361	4187.25	29.5669	397.191	397.191	0	1.12778	7.70399	0
362	4196.03	33.604	392.121	392.121	0	1.11371	8.09886	0
363	4205.91	37.4985	358.656	358.656	0	1.0269	8.50604	0
364	4216.82	40.9437	319.649	319.649	0	0.906417	8.88773	0
365	4228.63	44.0624	294.966	294.966	0	0.832924	9.25065	0
366	4241.27	46.9414	276.192	276.192	0	0.775552	9.60035	0
367	4254.69	49.6435	260.39	260.39	0	0.729905	9.42397	0
368	4268.84	52.1979	247.325	247.325	0	0.693082	8.82068	0
369	4283.68	54.6282	235.184	235.184	0	0.659597	8.16561	0
370	4299.18	56.9483	225.199	225.199	0	0.632198	7.46138	0
371	4315.31	59.1763	215.904	215.904	0	0.607324	6.71114	0
372	4332.05	61.3218	208.492	208.492	0	0.587635	5.91688	-3
373	4349.37	63.3943	202.257	202.257	0	0.561808	8.5738	-3
374	4367.26	65.3862	196.407	196.407	0	0.545997	8.1243	-3
375	4385.69	67.326	191.283	191.283	0	0.532489	7.65025	-3
376	4404.66	69.2121	186.301	186.301	0	0.516054	8.32885	-3
377	4424.14	71.0496	181.426	181.426	0	0.505265	7.16944	-3
378	4444.12	72.8407	176.657	176.657	0	0.490557	7.46751	-3
379	4464.6	74.5796	172.027	172.027	0	0.476263	7.76212	-3
380	4485.55	76.2678	167.534	167.534	0	0.462379	8.05306	-3
381	4506.97	77.9069	163.173	163.173	0	0.448889	8.34017	-3
382	4528.83	79.4981	158.939	158.939	0	0.435782	8.62326	-3
383	4551.02	80	8.71344	8.71344	0	0	8.71344	-3
384	4573.25	80	8.71344	8.71344	0	0	8.71344	-3
385	4595.47	80	8.71344	8.71344	0	0	8.71344	-3
386	4617.69	80	8.71344	8.71344	0	0	8.71344	-3
387	4639.91	80	8.71344	8.71344	0	0	8.71344	-3
388	4662.13	80	6.60117	6.60117	0	0	6.62517	-3
389	4684.36	80	6.30963	6.30963	0	0	6.09168	-3
390	4706.58	80	17.0611	17.0611	0	0	16.5773	-3
391	4728.8	80	28.1643	28.1643	0	0	27.6565	-3
392	4751.02	80	39.4493	39.4493	0	0	38.9415	-3
393	4773.25	80	50.7343	50.7343	0	0	50.2264	20
394	4795.47	80	62.0192	62.0192	0	0	61.5114	20
395	4817.69	80	73.3042	73.3042	0	0	72.7964	20
396	4839.91	80	76.4477	76.4477	0	0	76.4477	20
397	4862.13	80	76.4477	76.4477	0	0	76.4477	20
398	4884.36	80	76.4477	76.4477	0	0	76.4477	20
399	4906.58	80	76.4477	76.4477	0	0	76.4477	20
400	4928.8	80	76.4477	76.4477	0	0	76.4477	20

**ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS**

RESULT EBRCL130R00.xls

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401	4951.02	80	76.4477	76.4477	0	0	76.4477	20
402	4973.25	80	76.4477	76.4477	0	0	76.4477	20
403	4995.47	80	76.4477	76.4477	0	0	76.4477	20
404	5017.69	80	74.1428	74.1428	0	0	75.026	20
405	5039.91	80	56.8497	56.8497	0	0	57.7179	20
406	5062.13	80	37.5571	37.5571	0	0	38.4253	20
407	5084.36	80	18.2645	18.2645	0	0	19.1327	20
408	5106.58	80	-2.26069	-2.26069	0	0	-1.37752	-20
409	5128.8	80	-21.8867	-21.8867	0	0	-21.0036	-20
410	5151.02	80	-41.5128	-41.5128	0	0	-40.6296	-20
411	5173.25	80	-46.3549	-46.3549	0	0	-46.3399	-20
412	5195.47	80	-46.6884	-46.6884	0	0	-46.6734	-20
413	5217.69	80	-47.0218	-47.0218	0	0	-47.0068	-20
414	5239.91	80	-47.1963	-47.1963	0	0	-47.1963	-20
415	5262.13	80	-47.1963	-47.1963	0	0	-47.1963	-20
416	5284.36	80	-47.1963	-47.1963	0	0	-47.1963	-20
417	5306.58	80	-47.1963	-47.1963	0	0	-47.1963	-20
418	5328.8	80	-40.6958	-40.6958	0	0	-41.1374	-20
419	5351.02	80	-30.8828	-30.8828	0	0	-31.3243	-20
420	5373.23	79.5949	-196.508	-196.508	0	-0.471479	-21.5909	-20
421	5394.97	76.5581	-365.924	-325.333	-40.5904	-1.02315	-12.5293	0
422	5415.72	72.8243	-366.561	-342.63	-23.9312	-1.04968	-4.00538	0
423	5435.42	68.9973	-367.193	-358.551	-8.6419	-1.07487	4.06347	0
424	5454.04	65.0823	-367.808	-367.808	0	-1.09869	11.6689	0
425	5471.57	61.1223	-368.405	-368.405	0	-1.09999	11.5285	0
426	5488	57.1624	-368.976	-368.976	0	-1.09998	10.9557	0
427	5503.33	53.2024	-369.522	-369.522	0	-1.09999	10.4095	0
428	5517.55	49.2424	-370.043	-369.848	-0.194829	-1.09999	9.88997	0
429	5530.68	45.2825	-370.539	-369.845	-0.69398	-1.1	9.39712	0
430	5542.71	41.3225	-371.002	-369.845	-1.15687	-1.09999	8.93092	0
431	5553.64	37.3625	-371.44	-369.846	-1.59363	-1.09998	8.49138	0
432	5563.47	33.4026	-371.852	-369.848	-2.00437	-1.09999	8.0785	0
433	5572.2	29.4426	-372.24	-369.851	-2.38911	-1.09999	7.69228	0
434	5579.82	25.4827	-372.603	-369.852	-2.75123	-1.09999	7.33271	0
435	5586.35	21.5227	-372.933	-369.852	-3.08163	-1.09999	6.99981	0
436	5591.78	17.5628	-373.238	-369.852	-3.38591	-1.09998	6.69356	0
437	5596.11	13.6028	-373.517	-369.852	-3.66505	-1.09999	6.41397	0
438	5599.32	9.64284	-373.76	-343.521	-30.2396	-1.09999	6.16104	0
439	5601.41	5.68318	-311.804	-51.5942	-260.209	-1.09988	5.93478	0
440	5602.35	2.68782	-222.362	-0.659592	-221.703	-0.9459	5.78133	0
441	5602.93	0.309167	-222.362	-7.59E-02	-222.287	-0.693537	5.67034	0
442	5603	0	0	0	0	0	5.65662	0
443	5603	0	0	0	0	0	5.65662	0
444	5603	0	0	0.00E+00	0	0	5.65662	0
445	5603	0	0	0	0	0	5.65662	0
446	5603	0	0	0	0	0	5.65662	0
447	5603	0	0	0	0	0	5.65662	0
448	5603	0	0	0	0	0	5.65662	0
449	5603	0	0	0	0	0	5.65662	0
450	5603	0	0	0	0	0	5.65662	0
451	5603	0	0	0	0	0	5.65662	0
452	5603	0	0	0	0	0	5.65662	0
453	5603	0	0	0	0	0	5.65662	0
454	5603	0	0	0	0	0	5.65662	0
455	5603	0	0	0	0	0	5.65662	0

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456	5603	0	0	0	0	0	5.65662	0
457	5603	0	0	0	0	0	5.65662	0
458	5603	0	0	0	0	0	5.65662	0
459	5603.5	2.10462	397.182	397.182	0	0.571647	5.75323	0
460	5604.22	4.76399	397.182	397.182	0	1.13342	5.88607	0
461	5606.08	8.84194	397.181	397.181	0	1.13254	6.11312	0
462	5609.1	12.9171	397.181	397.181	0	1.13171	6.36826	0
463	5613.25	16.9894	397.181	397.181	0	1.13085	6.65142	0
464	5618.53	21.0585	397.181	397.181	0	1.12993	6.96253	0
465	5624.94	25.1242	397.181	397.181	0	1.12893	7.30148	0
466	5632.49	29.1862	397.19	397.19	0	1.12788	7.66819	0
467	5641.16	33.228	392.65	392.65	0	1.11538	8.06092	0
468	5650.94	37.1516	363.029	363.029	0	1.03997	8.46872	0
469	5661.75	40.6363	322.082	322.082	0	0.912336	9.30981	0
470	5673.48	43.7697	297.283	297.283	0	0.835466	10.7088	0
471	5686.05	46.6479	277.908	277.908	0	0.773103	12.1664	0
472	5699.38	49.3333	262.204	262.204	0	0.722819	13.6817	0
473	5713.44	51.849	249.068	249.068	0	0.679479	15.2505	0
474	5728.17	54.2194	237.227	237.227	0	0.640258	16.8701	4
475	5743.55	56.4561	227.253	227.253	0	0.606017	18.537	4
476	5759.53	58.5787	218.397	218.397	0	0.575274	20.2495	4
477	5776.08	60.594	210.681	210.681	0	0.547331	22.0045	4
478	5793.18	62.5222	204.881	204.881	0	0.525261	23.8017	4
479	5810.81	64.3777	199.299	199.299	0	0.507354	24.3838	4
480	5828.94	66.1741	194.326	194.326	0	0.491995	24.6624	4
481	5847.57	67.9182	189.719	189.719	0	0.477817	24.9381	4
482	5866.67	69.6122	185.245	185.245	0	0.464034	25.2108	4
483	5886.24	71.2572	180.873	180.873	0	0.450567	25.4804	4
484	5906.25	72.8543	176.621	176.621	0	0.437452	25.7465	4
485	5926.71	74.405	172.492	172.492	0	0.424708	26.009	4
486	5947.58	75.9105	168.485	168.485	0	0.412329	26.2678	4
487	5968.87	77.3721	164.596	164.596	0	0.400304	26.5227	4
488	5990.57	78.7911	160.82	160.82	0	0.38862	26.7736	4
489	6012.64	79.9959	35.7841	35.7841	0	9.14E-02	26.9894	4
490	6034.86	80	26.9901	26.9901	0	0	26.9901	4
491	6057.08	80	26.9901	26.9901	0	0	26.9901	4
492	6079.3	80	26.9901	26.9901	0	0	26.9901	4
493	6101.53	79.8871	-127.713	-127.713	0	-0.411755	26.9698	4
494	6123.37	76.9198	-365.852	-323.658	-42.1939	-1.13578	26.4434	4
495	6144.17	72.8404	-366.551	-342.555	-23.996	-1.13064	23.97	4
496	6163.84	68.7797	-367.22	-359.166	-8.05431	-1.12562	21.565	4
497	6182.38	64.7365	-367.86	-367.86	0	-1.12089	19.29	4
498	6199.8	60.7099	-368.467	-368.467	0	-1.11643	17.1443	0
499	6216.11	56.6989	-369.042	-369.042	0	-1.11225	15.1269	0
500	6231.3	52.7023	-369.589	-369.589	0	-1.10837	13.2371	0
501	6245.39	48.7192	-370.109	-369.848	-0.260677	-1.10477	11.474	0
502	6258.37	44.7485	-370.602	-369.845	-0.756856	-1.10146	9.83692	0
503	6270.25	40.7876	-371.065	-369.845	-1.21933	-1.09999	8.86999	0
504	6281.03	36.8276	-371.498	-369.846	-1.65154	-1.09998	8.43405	0
505	6290.71	32.8676	-371.906	-369.849	-2.05743	-1.09998	8.02477	0
506	6299.29	28.9077	-372.289	-369.851	-2.43814	-1.09999	7.64215	0
507	6306.77	24.9477	-372.648	-369.852	-2.79629	-1.1	7.28618	0
508	6313.15	20.9878	-372.978	-369.852	-3.12592	-1.09999	6.95688	0
509	6318.43	17.0278	-373.278	-369.852	-3.42624	-1.09998	6.65423	0
510	6322.6	13.0678	-373.553	-369.852	-3.7011	-1.09998	6.37824	0

511	6325.67	9.1079	-373.789	-304.082	-69.707	-1.09998	6.12891	0
512	6327.61	5.14831	-280.836	-12.1614	-268.674	-1.09985	5.90626	0
513	6328.43	2.36648	-222.362	-0.580736	-221.782	-0.911808	5.76577	0
514	6329	0	0	0	0	0	5.65662	0
515	6329	0	0	0	0	0	5.65662	0
516	6329	0	0	0	0	0	5.65662	0
517	6329	0	0	0	0	0	5.65662	0
518	6329	0	0	0	0	0	5.65662	0
519	6329	0	0	0	0	0	5.65662	0
520	6329	0	0	0	0	0	5.65662	0
521	6329	0	0	0	0	0	5.65662	0
522	6329	0	0	0	0	0	5.65662	0
523	6329	0	0	0	0	0	5.65662	0
524	6329	0	0	0	0	0	5.65662	0
525	6329	0	0	0	0	0	5.65662	0
526	6329	0	0	0	0	0	5.65662	0
527	6329	0	0	0	0	0	5.65662	0
528	6329	0	0	0	0	0	5.65662	0
529	6329	0	0	0	0	0	5.65662	0
530	6329	0	0	0	0	0	5.65662	0
531	6329	1.24E-02	397.182	397.182	0	3.36E-03	5.65717	0
532	6329.58	2.43142	397.182	397.182	0	0.660408	5.7689	0
533	6330.43	5.31499	397.181	397.181	0	1.1333	5.9151	0
534	6332.43	9.39258	397.181	397.181	0	1.13243	6.14595	0
535	6335.6	13.4674	397.181	397.181	0	1.1316	6.40488	0
536	6339.9	17.5393	397.181	397.181	0	1.13073	6.69182	0
537	6345.33	21.6079	397.181	397.181	0	1.1298	7.00669	0
538	6351.9	25.6731	397.182	397.182	0	1.12879	7.3494	0
539	6359.59	29.7347	397.191	397.191	0	1.12774	7.71985	0
540	6368.42	33.7694	391.888	391.888	0	1.11298	8.11563	0
541	6378.34	37.6498	356.749	356.749	0	1.02121	8.52237	0
542	6389.29	41.0778	318.588	318.588	0	0.903255	8.90299	0
543	6401.14	44.1787	294.045	294.045	0	0.800793	19.3653	0
544	6413.8	46.9426	276.185	276.185	0	0.743494	20.6131	0
545	6427.2	49.5261	261.076	261.076	0	0.695611	21.9042	0
546	6441.3	51.9492	248.568	248.568	0	0.654816	23.2354	0
547	6456.05	54.2346	237.151	237.151	0	0.617562	24.6048	0
548	6471.41	56.3806	181.251	181.251	0	0.515305	20.9288	0
549	6487.2	56.921	21.0047	21.0047	0	0	21.0047	0
550	6503.01	56.921	21.0047	21.0047	0	0	21.0047	0
551	6518.82	56.921	17.9711	17.9711	0	0	18.4127	0
552	6534.63	56.921	10.989	10.989	0	0	11.4306	0
553	6550.44	56.921	4.00693	4.00693	0	0	4.44851	0
554	6566.25	56.921	-2.97516	-2.97516	0	0	-2.53357	0
555	6582.07	56.921	-9.95725	-9.95725	0	0	-9.51566	0
556	6597.88	56.921	-22.9659	-22.9659	0	0	-22.4523	-20
557	6613.69	56.921	-31.0868	-31.0868	0	0	-30.5732	-20
558	6629.5	56.921	-39.2076	-39.2076	0	0	-38.694	-20
559	6645.31	56.921	-47.3285	-47.3285	0	0	-46.8149	-20
560	6661.13	57.214	91.0853	91.0853	0	0.360589	-50.8591	-20
561	6677.24	57.6535	-368.906	-368.906	0	-0.920996	-50.7968	-20
562	6692.81	54.6611	-229.311	-229.311	0	-0.568433	-51.2144	-20
563	6707.85	54	-51.3047	-51.3047	0	0	-51.3047	-20
564	6722.85	54	-51.3047	-51.3047	0	0.00E+00	-51.3047	-20
565	6737.85	54	-44.1305	-44.1305	0	0	-44.6383	-20

566	6752.85	54	-36.5131	-36.5131	0	0	-37.0209	-20
567	6767.85	54	-28.8957	-28.8957	0	0.00E+00	-29.4036	-20
568	6782.85	54	-9.2573	-9.2573	0	0	-9.84514	-20
569	6797.85	54	-0.439569	-0.439569	0	0	-1.02742	3
570	6812.85	54	8.37816	8.37816	0	0	7.79031	3
571	6827.85	54	17.1959	17.1959	0	0	16.608	3
572	6842.85	54	21.2418	21.2418	0	0	25.4258	3
573	6857.85	54	28.0118	28.0118	0	0	27.504	3
574	6872.85	54	30.9941	30.9941	0	0	30.9941	3
575	6887.85	54	30.9941	30.9941	0	0	30.9941	3
576	6902.85	54	30.9941	30.9941	0	0	30.9941	3
577	6917.85	54	30.9941	30.9941	0	0	30.9941	3
578	6932.85	54	30.9941	30.9941	0	0	30.9941	3
579	6947.85	54	30.9941	30.9941	0	0	30.9941	3
580	6962.85	54	30.9941	30.9941	0	0	30.9941	3
581	6977.85	54	30.9941	30.9941	0	0	30.9941	3
582	6992.85	54	30.9941	30.9941	0	0	30.9941	3
583	7007.85	54	25.2806	25.2806	0	0	25.3606	3
584	7022.85	54	24.0802	24.0802	0	0	24.1602	3
585	7037.85	54	22.8798	22.8798	0	0	22.9598	3
586	7052.85	54	21.6795	21.6795	0	0	21.7595	3
587	7067.85	54	20.4791	20.4791	0	0	20.5591	3
588	7082.86	54.301	164.39	164.39	0	0.365449	19.8316	3
589	7098.22	56.3648	227.633	227.633	0	0.602538	20.1168	3
590	7114.17	58.4828	218.797	218.797	0	0.575951	20.417	3
591	7130.24	56.0262	-369.138	-369.138	0	-1.12684	20.0695	3
592	7145.25	52.2523	-237.677	-237.677	0	-8.00E-01	19.5557	3
593	7159.51	50.9117	19.379	19.379	0	-1.38E-02	19.379	3
594	7173.65	50.9117	19.379	19.379	0	0	19.379	3
595	7187.8	50.9117	20.3916	20.3916	0	0	20.248	3
596	7201.94	50.9117	22.4212	22.4212	0	0	22.2777	3
597	7216.08	50.9117	24.4508	24.4508	0	0	24.3073	3
598	7230.22	50.9117	39.2564	39.2564	0	0	39.0228	3
599	7244.36	50.9117	42.5592	42.5592	0	0	42.3256	3
600	7258.51	50.9117	45.862	45.862	0	0	45.6284	9.5
601	7272.65	50.9117	49.1648	49.1648	0	0	48.9312	9.5
602	7286.79	50.9117	52.4676	52.4676	0	0	52.234	9.5
603	7300.93	50.9117	49.2324	49.2324	0	0	49.0888	9.5
604	7315.07	50.9117	51.262	51.262	0	0	51.1185	9.5
605	7329.22	50.9117	52.0751	52.0751	0	0	52.0751	9.5
606	7343.36	50.9117	52.0751	52.0751	0	0	52.0751	9.5
607	7357.5	50.9117	52.0751	52.0751	0	0	52.0751	9.5
608	7371.64	50.9117	52.0751	52.0751	0	0	52.0751	9.5
609	7385.79	50.9117	52.0751	52.0751	0	0	52.0751	9.5
610	7399.93	50.9117	52.0751	52.0751	0	0	52.0751	9.5
611	7414.07	50.9117	52.0751	52.0751	0	0	52.0751	9.5
612	7428.21	50.9117	50.1597	50.1597	0	0	50.3694	9.5
613	7442.35	50.9117	47.1933	47.1933	0	0	47.4031	9.5
614	7456.5	50.9117	37.6409	37.6409	0	0	37.9407	9.5
615	7470.64	50.9117	33.4014	33.4014	0	0	33.7011	9.5
616	7484.78	50.9117	29.1618	29.1618	0	0	29.4616	9.5
617	7498.92	50.9117	24.9223	24.9223	0	0	25.222	0
618	7513.06	50.9117	20.6827	20.6827	0	0	20.9825	0
619	7527.21	51.0403	118.537	118.537	0	0.238073	17.0171	0
620	7541.63	53.0327	243.155	243.155	0	0.665127	14.257	0

621	7556.69	55.3773	231.753	231.753	0	0.63979	11.4178	0
622	7572.39	57.6329	222.343	222.343	0	0.613546	11.0223	0
623	7588.7	59.7896	213.346	213.346	0	0.586462	11.3327	0
624	7605.59	61.8607	206.871	206.871	0	0.566327	11.6383	0
625	7623.06	63.8643	200.843	200.843	0	0.547933	11.9408	0
626	7641.07	65.8035	195.305	195.305	0	0.53086	12.24	0
627	7659.61	67.6854	190.334	190.334	0	0.515563	12.5366	0
628	7678.67	69.5132	185.506	185.506	0	0.500692	12.8304	0
629	7698.22	71.2882	180.791	180.791	0	0.486164	13.1211	0
630	7718.27	73.0115	176.202	176.202	0	0.472011	13.4085	0
631	7738.78	74.6847	171.748	171.748	0	0.458257	13.6924	0
632	7759.75	76.3091	167.425	167.425	0	0.444898	13.9725	0
633	7781.17	77.8862	163.228	163.228	0	0.431919	14.2488	0
634	7802.79	76.4172	-365.941	-325.986	-39.9552	-1.09999	13.9913	0
635	7823.46	72.4572	-366.616	-344.331	-22.285	-1.09998	13.3155	0
636	7843.04	68.4972	-367.266	-359.964	-7.30121	-1.09999	12.6664	0
637	7861.52	64.5373	-367.89	-367.89	0	-1.09999	12.0439	0
638	7878.89	60.5773	-368.487	-368.487	0	-1.09999	11.4481	0
639	7895.17	56.6174	-369.054	-369.054	0	-1.09999	10.8789	0
640	7910.35	52.6574	-369.595	-369.595	0	-1.09999	10.3364	0
641	7924.43	48.6974	-370.112	-369.848	-0.263614	-1.09999	9.82056	0
642	7937.4	44.7375	-370.603	-369.845	-0.758325	-1.1	9.33138	0
643	7949.28	40.7775	-371.066	-369.845	-1.2205	-1.09999	8.86885	0
644	7960.06	36.8176	-371.499	-369.846	-1.65263	-1.09998	8.43298	0
645	7969.73	32.8576	-371.907	-369.849	-2.05842	-1.09998	8.02376	0
646	7978.31	28.8976	-372.29	-369.851	-2.43906	-1.09999	7.64121	0
647	7985.79	24.9377	-372.649	-369.852	-2.79713	-1.1	7.28531	0
648	7992.16	20.9777	-372.978	-369.852	-3.12672	-1.09999	6.95608	0
649	7997.44	17.0178	-373.279	-369.852	-3.42699	-1.09998	6.6535	0
650	8001.61	13.0578	-373.554	-369.852	-3.70178	-1.09998	6.37758	0
651	8004.68	9.09786	-373.789	-303.342	-70.4476	-1.09998	6.12831	0
652	8006.62	5.13828	-280.255	-11.4215	-268.833	-1.09985	5.90573	0
653	8007.43	2.36045	-222.362	-0.579256	-221.783	-0.911168	5.76548	0
654	8008	0	0	0	0	0	5.65662	0
655	8008	0	0	0	0	0	5.65662	0
656	8008	0	0	0	0	0	5.65662	0
657	8008	0	0	0	0	0	5.65662	0
658	8008	0	0	0	0	0	5.65662	0
659	8008	0	0	0	0	0	5.65662	0
660	8008	0	0	0	0	0	5.65662	0
661	8008	0	0	0	0	0	5.65662	0
662	8008	0	0	0	0	0	5.65662	0
663	8008	0	0	0	0	0	5.65662	0
664	8008	0	0	0	0	0	5.65662	0
665	8008	0	0	0	0	0	5.65662	0
666	8008	0	0	0	0	0	5.65662	0
667	8008	0	0	0	0	0	5.65662	0
668	8008	0	0	0	0	0	5.65662	0
669	8008	0	0	0	0	0	5.65662	0
670	8008	0	0	0	0	0	5.65662	0
671	8008	1.85E-02	397.182	397.182	0	5.03E-03	5.65744	0
672	8008.58	2.43755	397.182	397.182	0	0.662073	5.7692	0
673	8009.43	5.32533	397.181	397.181	0	1.1333	5.91564	0
674	8011.44	9.40292	397.181	397.181	0	1.13242	6.14657	0
675	8014.61	13.4777	397.181	397.181	0	1.1316	6.40557	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010352

676	8018.91	17.5496	397.181	397.181	0	1.13073	6.69258	0
677	8024.35	21.6182	397.181	397.181	0	1.1298	7.00752	0
678	8030.92	25.6834	397.182	397.182	0	1.12879	7.3503	0
679	8038.62	29.745	397.191	397.191	0	1.12773	7.72083	0
680	8047.44	33.7795	391.874	391.874	0	1.11294	8.11666	0
681	8057.37	37.659	356.633	356.633	0	1.02086	8.52337	0
682	8068.32	41.086	318.523	318.523	0	0.903061	8.90393	0
683	8080.17	44.1934	293.93	293.93	0	0.829841	9.26625	0
684	8092.85	47.0635	275.478	275.478	0	0.773422	9.61549	0
685	8106.29	49.6685	260.243	260.243	0	0.688958	23.3559	0
686	8120.33	50.9117	24.8712	24.8712	0	0	24.7812	0
687	8134.47	50.9117	26.1444	26.1444	0	0	26.0544	0
688	8148.61	50.9117	27.4176	27.4176	0	0	27.3275	0
689	8162.76	50.9117	28.6908	28.6908	0	0	28.6007	0
690	8176.9	50.9117	22.7096	22.7096	0	0	22.7096	0
691	8191.04	50.9117	22.7096	22.7096	0	0	22.7096	0
692	8205.18	50.9117	22.7096	22.7096	0	0	22.7096	0
693	8219.33	50.9117	22.7096	22.7096	0	0	22.7096	0
694	8233.47	50.9117	22.7096	22.7096	0	0	22.7096	0
695	8247.61	50.9117	22.7096	22.7096	0	0	22.7096	0
696	8261.75	50.9117	22.7096	22.7096	0	0	22.7096	0
697	8275.89	50.9117	15.579	15.579	0	0	15.6691	0
698	8290.04	50.9117	12.5848	12.5848	0	0	12.9619	0
699	8304.18	50.9117	7.25238	7.25238	0	0	7.62944	0
700	8318.32	50.9117	1.91997	1.91997	0	0	2.29703	0
701	8332.46	50.9117	-3.41245	-3.41245	0	0	-3.03539	0
702	8346.66	51.7237	218.977	218.977	0	0.6007	-7.47489	0
703	8361.39	54.3158	236.745	236.745	0	0.720858	-11.3532	-13
704	8376.83	56.8675	225.536	225.536	0	0.699651	-15.4323	-13
705	8392.97	59.3519	215.172	215.172	0	0.681899	-19.7108	-13
706	8409.8	61.7823	207.106	207.106	0	0.670921	-24.1827	-13
707	8427.29	64.1777	199.901	199.901	0	0.656398	-26.3977	-13
708	8445.44	66.4801	193.518	193.518	0	0.625055	-22.0331	-13
709	8464.22	68.6737	187.723	187.723	0	0.595193	-17.5393	-13
710	8483.58	70.7607	182.195	182.195	0	0.565759	-12.9235	-13
711	8503.52	72.7425	176.919	176.919	0	0.536723	-8.19314	-3
712	8523.99	74.6208	171.918	171.918	0	0.508179	-3.35553	-3
713	8544.96	76.3973	167.19	167.19	0	0.480139	1.58247	-3
714	8566.42	78.077	162.721	162.721	0	0.457233	5.00918	-3
715	8588.34	79.692	129.706	129.706	0	0.396345	5.29702	-3
716	8610.55	80	5.3524	5.3524	0	0	5.3524	-3
717	8632.77	80	5.3524	5.3524	0	0	5.3524	-3
718	8654.99	80	5.3524	5.3524	0	0	5.3524	-3
719	8677.21	80	5.3524	5.3524	0	0	5.3524	-3
720	8699.44	80	5.3524	5.3524	0	0	5.3524	-3
721	8721.66	80	5.3524	5.3524	0	0	5.3524	-3
722	8743.88	80	5.3524	5.3524	0	0	5.3524	-3
723	8766.1	80	5.3524	5.3524	0	0	5.3524	-3
724	8788.32	80	5.3524	5.3524	0	0	5.3524	-3
725	8810.55	80	5.3524	5.3524	0	0	5.3524	-3
726	8832.77	80	5.3524	5.3524	0	0	5.3524	-3
727	8854.99	80	5.3524	5.3524	0	0	5.3524	-3
728	8877.21	80	5.63896	5.63896	0	0	5.63886	-3
729	8899.44	80	5.63559	5.63559	0	0	5.63597	-3
730	8921.66	80	5.3524	5.3524	0	0	5.3524	-3

1243

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010353

731	8943.88	80	5.39883	5.39883	0	0	5.40033	-3
732	8966.1	80	5.36548	5.36548	0	0	5.36699	-3
733	8988.32	80	6.5423	6.5423	0	0	6.47606	-3
734	9010.38	78.2776	-308.288	-308.288	0	-0.877978	7.62937	-3
735	9031.6	74.4585	-366.28	-335.058	-31.2226	-1.0847	8.37083	-3
736	9051.74	70.5462	-366.937	-353.186	-13.7511	-1.08856	9.05007	0
737	9070.79	66.6205	-367.565	-365.269	-2.29515	-1.09221	9.68109	0
738	9088.75	62.6819	-368.17	-368.17	0	-1.09565	10.264	0
739	9105.62	58.7313	-368.753	-368.753	0	-1.09889	10.799	0
740	9121.38	54.7719	-369.312	-369.312	0	-1.1	10.6228	0
741	9136.05	50.812	-369.842	-369.842	0	-1.09999	10.0927	0
742	9149.61	46.852	-370.343	-369.847	-0.496576	-1.09999	9.58927	0
743	9162.07	42.892	-370.819	-369.845	-0.973657	-1.09999	9.11251	0
744	9173.44	38.9321	-371.27	-369.846	-1.42379	-1.09999	8.6624	0
745	9183.7	34.9721	-371.695	-369.847	-1.84877	-1.1	8.23896	0
746	9192.87	31.0122	-372.092	-369.85	-2.24156	-1.09999	7.84217	0
747	9200.93	27.0522	-372.46	-369.851	-2.60836	-1.09998	7.47204	0
748	9207.9	23.0922	-372.802	-369.852	-2.95073	-1.09998	7.12857	0
749	9213.76	19.1323	-373.12	-369.852	-3.26789	-1.09999	6.81175	0
750	9218.52	15.1723	-373.412	-369.852	-3.55983	-1.09999	6.5216	0
751	9222.18	11.2124	-373.676	-369.852	-3.82352	-1.09999	6.2581	0
752	9224.73	7.2525	-373.858	-167.292	-206.566	-1.09994	6.02126	0
753	9226.12	3.63059	-222.362	-0.89095	-221.472	-1.04592	5.82798	0
754	9226.7	1.25194	-222.362	-0.307228	-222.055	-0.793561	5.71318	0
755	9227	0	0	0	0	0	5.65662	0
756	9227	0	0	0	0	0	5.65662	0
757	9227	0	0	0	0	0	5.65662	0
758	9227	0	0	0	0	0	5.65662	0
759	9227	0	0	0	0	0	5.65662	0
760	9227	0	0	0	0	0	5.65662	0
761	9227	0	0	0	0	0	5.65662	0
762	9227	0	0	0	0	0	5.65662	0
763	9227	0	0	0	0	0	5.65662	0
764	9227	0	0	0	0	0	5.65662	0
765	9227	0	0	0	0	0	5.65662	0
766	9227	0	0	0	0	0	5.65662	0
767	9227	0	0	0	0	0	5.65662	0
768	9227	0	0	0	0	0	5.65662	0
769	9227	0	0	0	0	0	5.65662	0
770	9227	0	0	0	0	0	5.65662	0
771	9227	0	0	0	0	0	5.65662	0
772	9227.27	1.14584	397.182	397.182	0	0.311226	5.70828	0
773	9227.85	3.56488	397.182	397.182	0	0.968273	5.82468	0
774	9229.2	7.22597	397.181	397.181	0	1.13289	6.01977	0
775	9231.77	11.3022	397.181	397.181	0	1.13204	6.26378	0
776	9235.47	15.3757	397.181	397.181	0	1.1312	6.53585	0
777	9240.3	19.4461	397.181	397.181	0	1.1303	6.83588	0
778	9246.27	23.5132	397.181	397.181	0	1.12934	7.16381	0
779	9253.36	27.5767	397.186	397.186	0	1.12831	7.51953	0
780	9261.59	31.6328	394.894	394.894	0	1.12244	7.9026	0
781	9270.93	35.6357	382.142	382.142	0	1.09678	8.30805	0
782	9281.35	39.3104	335.813	335.813	0	0.958749	8.70425	0
783	9292.73	42.5668	306.804	306.804	0	0.868158	9.07453	0
784	9304.98	45.5571	284.287	284.287	0	0.801299	8.88558	0
785	9318.02	48.3516	267.945	267.945	0	0.755041	8.36773	0

010354

786	9331.82	50.9869	253.375	253.375	0	0.713712	7.79237	0
787	9346.34	53.4893	240.874	240.874	0	0.679091	7.16363	0
788	9361.53	55.872	229.689	229.689	0	0.648107	6.48398	0
789	9377.37	58.1559	220.161	220.161	0	0.622483	5.75693	-3
790	9393.83	60.3502	211.415	211.415	0	0.598836	4.98442	-3
791	9410.89	62.475	205.023	205.023	0	0.58262	4.16993	-3
792	9428.53	64.5426	198.803	198.803	0	0.567022	3.31575	-3
793	9446.74	66.5553	193.319	193.319	0	0.551642	3.08448	-3
794	9465.5	68.511	188.153	188.153	0	0.535738	3.39527	-3
795	9484.8	70.4102	183.128	183.128	0	0.520258	3.70332	-3
796	9504.61	72.2544	178.218	178.218	0	0.505118	4.00831	-3
797	9524.93	74.045	173.451	173.451	0	0.490404	4.30996	-3
798	9545.74	75.7833	168.824	168.824	0	0.476109	4.60804	-3
799	9567.03	77.4711	164.333	164.333	0	0.462222	4.90235	-3
800	9588.78	79.1096	159.973	159.973	0	0.448728	5.1927	-3
801	9610.93	80	5.3524	5.3524	0	0	5.3524	-3
802	9633.15	80	5.3524	5.3524	0	0	5.3524	-3
803	9655.37	80	5.3524	5.3524	0	0	5.3524	-3
804	9677.59	80	5.3524	5.3524	0	0	5.3524	-3
805	9699.82	80	5.3524	5.3524	0	0	5.3524	-3
806	9722.04	80	5.3524	5.3524	0	0	5.3524	-3
807	9744.26	80	5.3524	5.3524	0	0	5.3524	-3
808	9766.48	80	5.3524	5.3524	0	0	5.3524	-3
809	9788.71	80	5.3524	5.3524	0	0	5.3524	-3
810	9810.93	80	5.3524	5.3524	0	0	5.3524	-3
811	9833.15	80	5.3524	5.3524	0	0	5.3524	-3
812	9855.37	80	5.3524	5.3524	0	0	5.3524	-3
813	9877.59	80	5.3524	5.3524	0	0	5.3524	-3
814	9899.82	80	5.3524	5.3524	0	0	5.3524	-3
815	9922.04	80	5.3524	5.3524	0	0	5.3524	-3
816	9944.26	80	5.3524	5.3524	0	0	5.3524	-3
817	9966.48	80	5.3524	5.3524	0	0	5.3524	-3
818	9988.71	80	5.3524	5.3524	0	0	5.3524	-3
819	10010.9	80	5.3524	5.3524	0	0	5.3524	-3
820	10033.2	80	5.3524	5.3524	0	0	5.3524	-3
821	10055.4	80	6.12067	6.12067	0	0	6.11992	-3
822	10077.5	78.9849	-234.527	-234.527	0	-0.662594	6.87773	-3
823	10099	75.4547	-366.111	-330.443	-35.6679	-1.08215	7.66197	-3
824	10119.4	71.5565	-366.767	-348.505	-18.2626	-1.08445	7.79902	-3
825	10138.8	67.6457	-367.401	-362.371	-5.03002	-1.08795	8.3748	0
826	10157	63.7227	-368.013	-368.013	0	-1.09127	8.90657	0
827	10174.2	59.7882	-368.602	-368.602	0	-1.09439	9.39534	0
828	10190.2	55.8425	-369.164	-369.164	0	-1.09746	9.89725	0
829	10205.2	51.8862	-369.698	-369.698	0	-1.09999	10.2339	0
830	10219	47.9262	-370.208	-369.847	-0.360962	-1.09999	9.7232	0
831	10231.8	43.9662	-370.693	-369.845	-0.848304	-1.09999	9.2392	0
832	10243.5	40.0063	-371.153	-369.846	-1.30759	-1.1	8.78187	0
833	10254	36.0463	-371.583	-369.846	-1.73613	-1.09999	8.35119	0
834	10263.5	32.0864	-371.984	-369.849	-2.13494	-1.09998	7.94717	0
835	10271.9	28.1264	-372.361	-369.851	-2.50979	-1.09998	7.56981	0
836	10279.1	24.1664	-372.713	-369.852	-2.86128	-1.09999	7.2191	0
837	10285.3	20.2065	-373.039	-369.852	-3.18732	-1.09999	6.89506	0
838	10290.3	16.2465	-373.336	-369.852	-3.48443	-1.09999	6.59767	0
839	10294.3	12.2866	-373.606	-369.852	-3.75392	-1.09998	6.32694	0
840	10297.2	8.32665	-373.824	-246.485	-127.34	-1.09996	6.08287	0

841	10298.9	4.36718	-235.609	-1.07171	-234.538	-1.09981	5.86548	0
842	10299.5	1.89719	-222.362	-0.465573	-221.897	-0.862019	5.74337	0
843	10300	0	0	0	0	0	5.65662	0
844	10300	0	0	0	0	0	5.65662	0
845	10300	0	0	0	0	0	5.65662	0
846	10300	0	0	0	0	0	5.65662	0
847	10300	0	0	0	0	0	5.65662	0
848	10300	0	0	0	0	0	5.65662	0
849	10300	0	0	0	0	0	5.65662	0
850	10300	0	0	0	0	0	5.65662	0
851	10300	0	0	0	0	0	5.65662	0
852	10300	0	0	0	0	0	5.65662	0
853	10300	0	0	0	0	0	5.65662	0
854	10300	0	0	0	0	0	5.65662	0
855	10300	0	0	0	0	0	5.65662	0
856	10300	0	0	0	0	0	5.65662	0
857	10300	0	0	0	0	0	5.65662	0
858	10300	0	0	0	0	0	5.65662	0
859	10300	0	0	0	0	0	5.65662	0
860	10300.1	0.489631	397.182	397.182	0	0.132991	5.67842	0
861	10300.7	2.90867	397.182	397.182	0	0.790038	5.79212	0
862	10301.7	6.11968	397.181	397.181	0	1.13313	5.95841	0
863	10304	10.1968	397.181	397.181	0	1.13226	6.19481	0
864	10307.4	14.271	397.181	397.181	0	1.13143	6.45928	0
865	10311.9	18.3422	397.181	397.181	0	1.13055	6.75173	0
866	10317.5	22.4102	397.181	397.181	0	1.12961	7.0721	0
867	10324.3	26.4747	397.184	397.184	0	1.12859	7.42029	0
868	10332.2	30.5353	396.439	396.439	0	1.1271	7.79619	0
869	10341.3	34.558	390.778	390.778	0	1.10949	8.19622	0
870	10351.4	38.3484	347.941	347.941	0	0.985179	11.9215	0
871	10362.5	41.6406	314.134	314.134	0	0.865977	17.2006	0
872	10374.5	44.5919	290.775	290.775	0	0.78103	22.8389	0
873	10387.3	47.2684	274.28	274.28	0	0.714105	28.8022	0
874	10400.8	49.6304	260.466	260.466	0	0.616523	48.4852	0
875	10414.8	50.9117	56.6394	56.6394	0	0	56.1078	20
876	10428.9	50.9117	64.1576	64.1576	0	0	63.626	20
877	10443.1	50.9117	71.6757	71.6757	0	0	71.1441	20
878	10457.2	50.9117	79.1939	79.1939	0	0	78.6623	20
879	10471.4	50.9117	79.433	79.433	0	0	78.9914	20
880	10485.5	50.9117	84.5316	84.5316	0	0	84.5316	20
881	10499.6	50.9117	84.5316	84.5316	0	0	84.5316	20
882	10513.8	50.9117	84.5316	84.5316	0	0	84.5316	20
883	10527.9	50.9117	84.5316	84.5316	0	0	84.5316	20
884	10542.1	50.9117	84.5316	84.5316	0	0	84.5316	20
885	10556.2	50.9117	84.5316	84.5316	0	0	84.5316	20
886	10570.3	50.9117	84.5316	84.5316	0	0	84.5316	20
887	10584.5	50.9117	84.5316	84.5316	0	0	84.5316	20
888	10598.6	50.9117	84.5316	84.5316	0	0	84.5316	20
889	10612.8	50.9117	84.5316	84.5316	0	0	84.5316	20
890	10626.9	50.9117	84.5316	84.5316	0	0	84.5316	20
891	10641.1	50.9117	84.5316	84.5316	0	0	84.5316	20
892	10655.2	50.9117	84.5316	84.5316	0	0	84.5316	20
893	10669.3	50.9117	84.5316	84.5316	0	0	84.5316	20
894	10683.5	50.9117	78.0239	78.0239	0	0	78.1139	20
895	10697.6	50.9117	79.3811	79.3811	0	0	79.9603	20

896	10711.8	50.9117	71.3253	71.3253	0	0	71.8864	20
897	10725.9	50.9117	63.5268	63.5268	0	0	64.0697	20
898	10740.1	50.9117	55.9856	55.9856	0	0	56.5103	20
899	10754.2	50.9117	45.1684	45.1684	0	0	43.1867	20
900	10768.3	50.9117	49.3649	49.3649	0	0	49.7827	-3
901	10782.5	50.9117	43.4564	43.4564	0	0	43.8742	-3
902	10796.6	50.9117	37.5478	37.5478	0	0	37.9656	-3
903	10810.8	50.9117	31.6393	31.6393	0	0	32.0571	-3
904	10824.9	50.9117	19.9563	19.9563	0	0	26.1486	-3
905	10839	50.9117	13.4363	13.4363	0	0	13.4363	-3
906	10853.2	50.9117	13.4363	13.4363	0	0	13.4363	-3
907	10867.3	50.9117	13.4363	13.4363	0	0	13.4363	-3
908	10881.5	50.9117	13.4363	13.4363	0	0	13.4363	-3
909	10895.6	50.9117	13.4363	13.4363	0	0	13.4363	-3
910	10909.8	50.9117	13.4363	13.4363	0	0	13.4363	-3
911	10923.9	50.9117	13.4363	13.4363	0	0	13.4363	-3
912	10938	50.9117	13.4363	13.4363	0	0	13.4363	-3
913	10952.2	50.9117	13.4363	13.4363	0	0	13.4363	-3
914	10966.3	50.9117	13.4363	13.4363	0	0	13.4363	-3
915	10980.5	50.9117	13.4363	13.4363	0	0	13.4363	-3
916	10994.6	50.9117	6.53001	6.53001	0	0	6.62004	-3
917	11008.8	50.9117	5.25682	5.25682	0	0	5.34685	-3
918	11022.9	50.9117	3.98364	3.98364	0	0	4.07367	-3
919	11037	50.9117	2.71045	2.71045	0	0	2.80048	-3
920	11051.2	50.9117	1.43727	1.43727	0	0	1.5273	-3
921	11065.4	51.4125	183.068	183.068	0	0.471344	0.898061	-3
922	11080	53.8225	239.209	239.209	0	0.691509	1.21996	-3
923	11095.2	56.2435	228.14	228.14	0	0.656653	1.98674	-3
924	11111.2	58.546	218.534	218.534	0	0.624678	3.36917	-3
925	11127.8	60.7373	210.25	210.25	0	0.596028	4.78554	-3
926	11144.9	62.8399	203.925	203.925	0	0.573436	6.23614	-3
927	11162.7	64.8623	197.841	197.841	0	0.551454	7.71984	0
928	11181	66.8098	192.647	192.647	0	0.531853	9.23516	0
929	11199.8	68.6886	187.684	187.684	0	0.512959	10.7811	0
930	11219.1	70.4945	182.904	182.904	0	0.49105	13.5518	0
931	11238.9	72.2299	178.283	178.283	0	0.474912	14.4911	0
932	11259.2	73.9134	173.801	173.801	0	0.461131	14.7567	0
933	11279.8	73.1701	-366.497	-341.027	-25.4694	-1.1	13.4352	0
934	11299.6	69.2073	-367.153	-357.958	-9.19516	-1.10064	13.0057	0
935	11318.3	65.2456	-367.783	-367.783	0	-1.10032	12.2661	0
936	11335.9	61.285	-368.38	-368.38	0	-1.10001	11.56	0
937	11352.3	57.3251	-368.953	-368.953	0	-1.09998	10.9787	0
938	11367.7	53.3651	-369.5	-369.5	0	-1.09999	10.4314	0
939	11382	49.4051	-370.023	-369.849	-0.174293	-1.09999	9.9108	0
940	11395.2	45.4452	-370.519	-369.845	-0.67403	-1.1	9.41685	0
941	11407.2	41.4852	-370.983	-369.845	-1.13787	-1.09999	8.94955	0
942	11418.2	37.5253	-371.422	-369.846	-1.57602	-1.09998	8.50892	0
943	11428.1	33.5653	-371.836	-369.848	-1.98823	-1.09999	8.09494	0
944	11436.9	29.6053	-372.225	-369.851	-2.3742	-1.09999	7.70762	0
945	11444.5	25.6454	-372.588	-369.851	-2.73674	-1.09999	7.34696	0
946	11451.1	21.6854	-372.92	-369.852	-3.06804	-1.09998	7.01296	0
947	11456.6	17.7255	-373.226	-369.852	-3.37366	-1.09998	6.70562	0
948	11461	13.7655	-373.506	-369.852	-3.65409	-1.09999	6.42493	0
949	11464.2	9.80556	-373.752	-355.517	-18.2348	-1.09999	6.1709	0
950	11466.3	5.84587	-321.223	-63.5885	-257.635	-1.09989	5.94355	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010357

951	11467.3	2.78556	-222.362	-0.683577	-221.679	-0.95627	5.7861	0
952	11467.9	0.406908	-222.362	-9.99E-02	-222.263	-0.703907	5.67471	0
953	11468	0	0	0	0	0	5.65662	0
954	11468	0	0	0	0	0	5.65662	0
955	11468	0	0	0	0	0	5.65662	0
956	11468	0	0	0	0	0	5.65662	0
957	11468	0	0	0	0	0	5.65662	0
958	11468	0	0	0	0	0	5.65662	0
959	11468	0	0	0	0	0	5.65662	0
960	11468	0	0	0	0	0	5.65662	0
961	11468	0	0	0	0	0	5.65662	0
962	11468	0	0	0	0	0	5.65662	0
963	11468	0	0	0	0	0	5.65662	0
964	11468	0	0	0	0	0	5.65662	0
965	11468	0	0	0	0	0	5.65662	0
966	11468	0	0	0	0	0	5.65662	0
967	11468	0	0	0	0	0	5.65662	0
968	11468	0	0	0	0	0	5.65662	0
969	11468	0	0	0	0	0	5.65662	0
970	11468.5	2.00522	397.182	397.182	0	0.544648	5.7485	0
971	11469.2	4.59639	397.182	397.182	0	1.13346	5.87734	0
972	11471	8.67443	397.181	397.181	0	1.13257	6.10324	0
973	11473.9	12.7497	397.181	397.181	0	1.13175	6.35723	0
974	11478.1	16.8221	397.181	397.181	0	1.13089	6.63924	0
975	11483.3	20.8913	397.181	397.181	0	1.12997	6.94919	0
976	11489.7	24.9572	397.181	397.181	0	1.12897	7.287	0
977	11497.2	29.0194	397.19	397.19	0	1.12793	7.65257	0
978	11505.8	33.0631	392.882	392.882	0	1.11611	8.04435	0
979	11515.5	36.9977	364.97	364.97	0	1.04576	8.45223	0
980	11526.3	40.5026	323.141	323.141	0	0.916823	8.83773	0
981	11538	43.6572	298.173	298.173	0	0.842468	9.20256	0
982	11550.5	46.5642	278.398	278.398	0	0.782136	9.55372	0
983	11563.8	49.2874	262.472	262.472	0	0.734613	9.89573	0
984	11577.9	51.8508	249.059	249.059	0	0.694044	10.2292	0
985	11592.6	54.2792	236.928	236.928	0	0.657735	10.5554	0
986	11608	56.5644	226.801	226.801	0	0.614236	15.2532	0
987	11624	58.6947	217.913	217.913	0	0.571073	20.8588	0
988	11640.6	60.5878	210.7	210.7	0	0.506826	35.9859	0
989	11657.7	62.2429	118.221	118.221	0	0.263198	42.9113	0
990	11675	62.3538	50.0942	50.0942	0	0	49.703	15
991	11692.3	62.3538	56.6352	56.6352	0	0	56.4789	15
992	11709.6	62.3538	48.6861	48.6861	0	0	48.9069	15
993	11727	62.3538	44.8619	44.8619	0	0	45.0827	15
994	11744.3	62.3538	37.5644	37.5644	0	0	38.1163	15
995	11761.6	62.3538	28.0038	28.0038	0	0	28.5557	15
996	11778.9	62.3538	18.4431	18.4431	0	0	18.9951	-10
997	11796.2	62.3538	8.88253	8.88253	0	0	9.43451	-10
998	11813.6	62.3538	-0.678082	-0.678082	0	0	-0.1261	-10
999	11830.9	62.3538	-10.2387	-10.2387	0	0	-9.68671	-10
1000	11848.2	62.3538	-10.7964	-10.7964	0	0	-10.7964	-10
1001	11865.5	62.3538	-10.7964	-10.7964	0	0	-10.7964	-10
1002	11882.9	62.3538	-10.7964	-10.7964	0	0	-10.7964	-10
1003	11900.2	62.3538	-10.7964	-10.7964	0	0	-10.7964	-10
1004	11917.5	62.3538	-8.6338	-8.6338	0	0	-8.78835	-10
1005	11934.8	62.3538	-5.95682	-5.95682	0	0	-6.11138	-10

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1006	11952.1	62.3538	-3.27985	-3.27985	0	0	-3.43441	-10
1007	11969.5	62.3538	-4.36091	-4.36091	0	0	-4.43596	-10
1008	11986.8	62.3538	-2.92691	-2.92691	0	0	-3.01677	-3
1009	12004.1	62.3538	-3.16E-02	-3.16E-02	0	0	-0.142541	-3
1010	12021.4	62.3538	1.8893	1.8893	0	0	1.77839	-3
1011	12038.8	63.3695	202.332	202.332	0	0.569968	5.83535	-3
1012	12056.7	65.3783	196.428	196.428	0	0.549272	7.01591	-3
1013	12075.1	67.3329	191.265	191.265	0	0.538675	5.49889	-3
1014	12094.1	69.2427	186.221	186.221	0	0.523488	5.80484	-3
1015	12113.6	71.1107	181.263	181.263	0	0.512108	4.64676	-3
1016	12133.6	72.9277	176.425	176.425	0	0.498134	4.6219	-3
1017	12154.1	74.6953	171.719	171.719	0	0.484577	4.58605	-3
1018	12175.1	76.4144	167.145	167.145	0	0.470918	4.71752	-3
1019	12196.6	78.0837	162.703	162.703	0	0.457177	5.01037	-3
1020	12218.2	76.2978	-365.962	-326.539	-39.4233	-1.07314	4.69723	-3
1021	12238.8	72.4345	-366.62	-344.436	-22.1834	-1.07314	4.0384	-3
1022	12258.4	68.7523	-262.106	-262.106	0	-0.810773	3.43408	-3
1023	12277.3	67.3498	3.20995	3.20995	0	-1.59E-02	3.20995	-3
1024	12296	67.3498	3.20995	3.20995	0	0	3.20995	-3
1025	12314.7	67.3498	3.20995	3.20995	0	0	3.20995	-3
1026	12333.4	67.3498	3.20995	3.20995	0	0	3.20995	-3
1027	12352.1	67.3498	10.7255	10.7255	0	0	10.6741	-3
1028	12370.8	67.3498	11.6879	11.6879	0	0	11.6365	-3
1029	12389.5	67.3498	12.6504	12.6504	0	0	12.5989	-3
1030	12408.2	67.3498	13.6128	13.6128	0	0	13.5614	-3
1031	12426.9	67.3498	10.4122	10.4122	0	0	10.4122	-3
1032	12445.6	67.3498	10.4122	10.4122	0	0	10.4122	-3
1033	12464.3	67.3498	10.9911	10.9911	0	0	10.9249	-3
1034	12483	67.3059	-68.0295	-68.0295	0	-0.18953	12.1571	-3
1035	12501.5	65.1035	-344.268	-344.268	0	-0.990282	13.0346	-3
1036	12519	61.1494	-368.401	-368.401	0	-1.10597	13.5975	-3
1037	12535.5	57.1618	-368.976	-368.976	0	-1.10911	14.109	0
1038	12550.8	53.1632	-369.528	-369.528	0	-1.11205	14.5727	0
1039	12565	49.1688	-370.053	-369.848	-0.204124	-1.1037	11.1624	0
1040	12578.1	45.1944	-370.55	-369.845	-0.704839	-1.10427	10.8621	0
1041	12590.1	41.218	-371.014	-369.845	-1.16907	-1.10477	10.5722	0
1042	12601	37.2407	-371.453	-369.846	-1.60678	-1.10439	10.0002	0
1043	12610.8	33.2678	-371.866	-369.848	-2.01769	-1.10293	9.08314	0
1044	12619.5	29.2999	-372.253	-369.851	-2.40215	-1.10164	8.25009	0
1045	12627.1	25.3363	-372.615	-369.852	-2.76394	-1.10052	7.50073	0
1046	12633.6	21.376	-372.946	-369.852	-3.09388	-1.09999	6.98799	0
1047	12639	17.4161	-373.249	-369.852	-3.39695	-1.09998	6.68273	0
1048	12643.2	13.4561	-373.527	-369.852	-3.67493	-1.09999	6.40412	0
1049	12646.4	9.49615	-373.768	-332.706	-41.0626	-1.09998	6.15218	0
1050	12648.5	5.5365	-303.311	-40.7807	-262.531	-1.09987	5.92691	0
1051	12649.4	2.5997	-222.362	-0.637968	-221.725	-0.936551	5.77705	0
1052	12649.9	0.221049	-222.362	-5.42E-02	-222.308	-0.684188	5.66641	0
1053	12650	0	0	0	0	0	5.65662	0
1054	12650	0	0	0	0	0	5.65662	0
1055	12650	0	0	0	0	0	5.65662	0
1056	12650	0	0	0	0	0	5.65662	0
1057	12650	0	0	0	0	0	5.65662	0
1058	12650	0	0	0	0	0	5.65662	0
1059	12650	0	0	0	0	0	5.65662	0
1060	12650	0	0	0	0	0	5.65662	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010359

1061	12650	0	0	0	0	0	5.65662	0
1062	12650	0	0	0	0	0	5.65662	0
1063	12650	0	0	0	0	0	5.65662	0
1064	12650	0	0	0	0	0	5.65662	0
1065	12650	0	0	0	0	0	5.65662	0
1066	12650	0	0	0	0	0	5.65662	0
1067	12650	0	0	0	0	0	5.65662	0
1068	12650	0	0	0	0	0	5.65662	0
1069	12650	0	0	0	0	0	5.65662	0
1070	12650.5	2.19424	397.182	397.182	0	0.595987	5.75751	0
1071	12651.3	4.91509	397.181	397.181	0	1.13339	5.89398	0
1072	12653.2	8.99294	397.181	397.181	0	1.13251	6.12207	0
1073	12656.2	13.068	397.181	397.181	0	1.13168	6.37825	0
1074	12660.4	17.1402	397.181	397.181	0	1.13082	6.66245	0
1075	12665.8	21.2092	397.181	397.181	0	1.12989	6.97459	0
1076	12672.2	25.2747	397.181	397.181	0	1.12889	7.31457	0
1077	12679.8	29.3366	397.19	397.19	0	1.12784	7.68231	0
1078	12688.5	33.3765	392.441	392.441	0	1.11465	8.09585	0
1079	12698.3	37.2852	361.346	361.346	0	1.03297	9.15356	0
1080	12709.2	40.7451	321.221	321.221	0	0.907049	10.2542	0
1081	12720.9	43.8619	296.553	296.553	0	0.831327	11.3946	0
1082	12733.5	46.7281	277.44	277.44	0	0.770543	12.5755	0
1083	12746.9	49.4062	261.777	261.777	0	0.721237	13.7971	0
1084	12760.9	51.9016	248.805	248.805	0	0.671221	17.8286	3
1085	12775.7	54.2445	237.101	237.101	0	0.633201	19.173	3
1086	12791.1	56.4574	227.247	227.247	0	0.599334	20.8328	3
1087	12807	58.5547	218.497	218.497	0	0.567943	22.8749	3
1088	12823.6	60.5472	210.822	210.822	0	0.545272	22.2121	3
1089	12840.7	62.4712	205.034	205.034	0	0.52808	22.9835	3
1090	12858.3	64.34	199.413	199.413	0	0.507095	24.5868	3
1091	12876.4	66.1452	194.402	194.402	0	0.496896	23.0484	3
1092	12895	67.9169	189.722	189.722	0	0.487861	21.4775	3
1093	12914.1	69.6555	185.13	185.13	0	0.478561	20.0863	-3
1094	12933.7	71.3801	180.546	180.546	0	0.479824	15.0625	-3
1095	12953.7	72	12.3884	12.3884	0	0	12.5208	-3
1096	12973.7	72	10.2678	10.2678	0	0	10.2678	-3
1097	12993.7	72	10.2678	10.2678	0	0	10.2678	-3
1098	13013.7	72	10.2678	10.2678	0	0	10.2678	-3
1099	13033.7	72	10.2678	10.2678	0	0	10.2678	-3
1100	13053.7	72	7.32281	7.32281	0	0	7.38919	-3
1101	13073.7	72	6.12879	6.12879	0	0	6.18231	-3
1102	13093.7	72	5.66113	5.66113	0	0	5.70128	-3
1103	13113.7	72	14.433	14.433	0	0	4.89833	-3
1104	13133.8	73.2064	175.683	175.683	0	0.496141	4.56667	-3
1105	13154.4	75.0079	170.887	170.887	0	0.504559	-3.13902	-3
1106	13175.5	76.8391	166.014	166.014	0	0.512446	-10.7377	-3
1107	13197.1	78.6992	161.065	161.065	0	0.520636	-18.5179	-3
1108	13219.2	80	-26.9526	-26.9526	0	0	-26.5772	-20
1109	13241.4	80	-35.2937	-35.2937	0	0	-34.9183	-20
1110	13263.6	80	-43.6347	-43.6347	0	0	-43.2594	-20
1111	13285.8	80	-46.515	-46.515	0	0.00E+00	-46.515	-20
1112	13308.1	80	-46.515	-46.515	0	0	-46.515	-20
1113	13330.3	80	-46.515	-46.515	0	0	-46.515	-20
1114	13352.5	80	-46.515	-46.515	0	0	-46.515	-20
1115	13374.7	80	-46.515	-46.515	0	0	-46.515	-20

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010330

1116	13397	80	-46.515	-46.515	0	0.00E+00	-46.515	-20
1117	13419.2	80	-46.515	-46.515	0	0	-46.515	-20
1118	13441.4	80	-46.515	-46.515	0	0	-46.515	-20
1119	13463.6	80	-46.515	-46.515	0	0	-46.515	-20
1120	13485.8	80	-46.515	-46.515	0	0	-46.515	-20
1121	13508.1	80	-46.515	-46.515	0	0	-46.515	-20
1122	13530.3	80	-46.515	-46.515	0	0	-46.515	-20
1123	13552.5	80	-46.515	-46.515	0	0	-46.515	-20
1124	13574.7	80	-46.515	-46.515	0	0	-46.515	-20
1125	13597	80	-46.515	-46.515	0	0	-46.515	-20
1126	13619.2	80	-46.7103	-46.7103	0	0	-46.7089	-20
1127	13641.4	80	-46.7233	-46.7233	0	0	-46.7235	-20
1128	13663.6	80	-46.7021	-46.7021	0	0	-46.7038	-20
1129	13685.8	80	-46.0861	-46.0861	0	0	-46.0933	-20
1130	13708.1	80	-45.4549	-45.4549	0	0	-45.4557	-20
1131	13730.3	80	-45.4625	-45.4625	0	0	-45.4611	-20
1132	13752.5	80	-46.188	-46.188	0	0	-46.188	-20
1133	13774.7	80	-46.7983	-46.7983	0	0	-46.7911	-20
1134	13797	80	-46.9584	-46.9584	0	0	-46.9512	-20
1135	13819.2	80	-46.5564	-46.5564	0	0	-46.6044	-20
1136	13841.4	80	-45.4077	-45.4077	0	0	-45.4629	-20
1137	13863.6	80	-44.181	-44.181	0	0	-44.2362	-20
1138	13885.8	80	-42.9544	-42.9544	0	0	-43.0096	-17.5
1139	13908.1	80	-41.7278	-41.7278	0	0	-41.783	-17.5
1140	13930.3	80	-40.5012	-40.5012	0	0	-40.5564	-17.5
1141	13952.5	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1142	13974.7	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1143	13997	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1144	14019.2	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1145	14041.4	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1146	14063.6	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1147	14085.8	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1148	14108.1	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1149	14130.3	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1150	14152.5	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1151	14174.7	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1152	14197	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1153	14219.2	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1154	14241.4	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1155	14263.6	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1156	14285.8	80	-39.4686	-39.4686	0	0	-39.4686	-17.5
1157	14308.1	79.9602	-168.161	-168.161	0	-0.230068	-39.4757	-17.5
1158	14330	77.3446	-365.778	-321.691	-44.0865	-0.943368	-39.9408	-17.5
1159	14351	73.9485	-366.366	-337.421	-28.9447	-0.943374	-40.5274	-17.5
1160	14371.1	70.5523	-366.935	-353.158	-13.7779	-0.94338	-41.0944	-17.5
1161	14390.2	67.1562	-367.479	-363.755	-3.72396	-0.94337	-41.6417	-17.5
1162	14408.4	63.76	-368.007	-368.007	0	-0.943373	-42.1694	-17.5
1163	14425.6	60.3639	-368.519	-368.519	0	-0.94338	-42.6776	-17.5
1164	14441.9	56.9677	-369.004	-369.004	0	-0.94337	-43.1661	-17.5
1165	14457.3	53.5716	-369.473	-369.473	0	-0.943373	-43.635	-17.5
1166	14471.7	51.1124	-137.061	-137.061	0	-0.32596	-43.9623	-17.5
1167	14485.9	50.9117	-43.9886	-43.9886	0	0	-43.9886	-17.5
1168	14500	50.9117	-43.9886	-43.9886	0	0	-43.9886	-17.5
1169	14514.2	50.9117	-43.9886	-43.9886	0	0	-43.9886	-17.5
1170	14528.3	50.9117	-43.9886	-43.9886	0	0	-43.9886	-17.5

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010361

1171	14542.5	50.9117	-43.9886	-43.9886	0	0	-43.9886	-17.5
1172	14556.6	50.9117	-30.4581	-30.4581	0	0	-30.4581	-17.5
1173	14570.7	50.9117	-29.1849	-29.1849	0	0	-29.2749	-17.5
1174	14584.9	50.9117	-27.9117	-27.9117	0	0	-28.0017	-17.5
1175	14599	50.9117	-26.6385	-26.6385	0	0	-26.7286	-17.5
1176	14613.2	50.9117	-25.3654	-25.3654	0	0	-25.4554	-17.5
1177	14627.3	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1178	14641.4	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1179	14655.6	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1180	14669.7	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1181	14683.9	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1182	14698	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1183	14712.2	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1184	14726.3	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1185	14740.4	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1186	14754.6	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1187	14768.7	50.9117	-31.3847	-31.3847	0	0	-31.3847	-17.5
1188	14782.9	50.9117	-30.8567	-30.8567	0	0	-31.2431	-17.5
1189	14797	50.9117	-25.3923	-25.3923	0	0	-25.7787	-17.5
1190	14811.2	50.9117	-19.928	-19.928	0	0	-20.3144	-17.5
1191	14825.3	50.9117	-14.4636	-14.4636	0	0	-14.85	-17.5
1192	14839.4	50.9117	-8.9993	-8.9993	0	0	-9.38569	-17.5
1193	14853.6	50.9117	-3.53495	-3.53495	0	0	-3.92134	0
1194	14867.7	50.9117	-34.7668	-34.7668	0	0	1.54301	0
1195	14881.5	48.075	-370.193	-369.848	-0.345752	-1.09067	6.52025	0
1196	14894.3	44.1204	-370.679	-369.845	-0.833573	-1.105	10.984	0
1197	14906	40.1165	-371.144	-369.846	-1.29858	-1.11809	15.0419	0
1198	14916.6	36.0677	-371.583	-369.846	-1.73654	-1.12992	18.6895	0
1199	14926.1	32.0058	-371.992	-369.849	-2.14282	-1.11763	14.0355	0
1200	14934.4	27.9867	-372.374	-369.851	-2.52249	-1.11546	12.9033	0
1201	14941.6	23.975	-372.729	-369.852	-2.87711	-1.11359	11.8995	0
1202	14947.7	19.9695	-373.057	-369.852	-3.20498	-1.112	11.0238	0
1203	14952.7	15.9692	-373.357	-369.852	-3.50482	-1.1107	10.2759	0
1204	14956.6	11.9731	-373.627	-369.852	-3.77518	-1.10968	9.6559	0
1205	14959.4	7.98018	-373.835	-220.941	-152.893	-1.10893	9.16397	0
1206	14961	4.05095	-219.868	-0.994105	-218.874	-1.09856	8.80021	0
1207	14961.6	1.66846	-219.868	-0.409441	-219.458	-0.841689	8.63174	0
1208	14962	0	0	0	0	0	8.5195	0
1209	14962	0	0	0	0	0	8.5195	0
1210	14962	0	0	0	0	0	8.5195	0
1211	14962	0	0	0	0	0	8.5195	0
1212	14962	0	0	0	0	0	8.5195	0
1213	14962	0	0	0	0	0	8.5195	0
1214	14962	0	0	0	0	0	8.5195	0
1215	14962	0	0	0	0	0	8.5195	0
1216	14962	0	0	0	0	0	8.5195	0
1217	14962	0	0	0	0	0	8.5195	0
1218	14962	0	0	0	0	0	8.5195	0
1219	14962	0	0	0	0	0	8.5195	0
1220	14962	0	0	0	0	0	8.5195	0
1221	14962	0	0	0	0	0	8.5195	0
1222	14962	0	0	0	0	0	8.5195	0
1223	14962	0	0	0	0	0	8.5195	0
1224	14962	0	0	0	0	0	8.5195	0
1225	14962.2	0.722955	397.182	397.182	0	0.195248	8.53622	0

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010352

1226	14962.8	3.13523	397.182	397.182	0	0.846728	8.59844	0
1227	14963.9	6.48481	397.181	397.181	0	1.12525	8.67268	0
1228	14966.2	10.535	397.181	397.181	0	1.125	8.69859	0
1229	14969.7	14.5851	397.181	397.181	0	1.12509	8.64993	0
1230	14974.3	18.6361	397.181	397.181	0	1.12541	8.52788	0
1231	14980.1	22.6886	397.181	397.181	0	1.12596	8.33263	0
1232	14986.9	26.7403	397.184	397.184	0	1.12553	8.47866	0
1233	14994.9	30.7948	396.074	396.074	0	1.12611	7.82116	0
1234	15004	34.8134	390.365	390.365	0	1.10836	8.22255	0
1235	15014.2	38.5888	344.91	344.91	0	0.985877	8.62464	0
1236	15025.4	41.9153	311.959	311.959	0	0.88351	8.99902	0
1237	15037.5	44.9555	287.973	287.973	0	0.811895	9.35762	0
1238	15050.4	47.7765	271.308	271.308	0	0.760979	9.70442	0
1239	15064	50.3726	256.443	256.443	0	0.693393	17.8635	0
1240	15078.3	52.7613	244.51	244.51	0	0.637728	25.046	0
1241	15093.3	54.9545	233.567	233.567	0	0.584374	32.4219	0
1242	15108.9	56.9998	224.984	224.984	0	0.549009	35.8975	0
1243	15125	58.8881	217.107	217.107	0	0.502963	43.8633	0
1244	15141.6	60.603	210.654	210.654	0	0.45446	53.9918	20
1245	15158.6	62.1423	206.024	206.024	0	0.411196	64.2686	20
1246	15176.1	63.5579	201.765	201.765	0	0.376759	71.8767	20
1247	15193.9	64.8487	197.882	197.882	0	0.342385	79.8402	20
1248	15212.1	66.0593	194.629	194.629	0	0.33552	79.1436	20
1249	15230.6	67.2756	191.416	191.416	0	0.334166	76.1767	20
1250	15249.5	68.4608	188.286	188.286	0	0.324612	76.338	20
1251	15268.6	69.628	185.203	185.203	0	0.329594	71.5341	20
1252	15288.1	70.8481	181.962	181.962	0	0.34771	62.0441	20
1253	15308	72.1281	178.554	178.554	0	0.362629	53.4878	20
1254	15328.2	73.4393	175.063	175.063	0	0.367776	48.2182	20
1255	15348.8	74.7916	171.463	171.463	0	0.382839	39.4196	0
1256	15369.8	76.1987	167.718	167.718	0	0.398204	30.372	0
1257	15391.1	77.6679	163.809	163.809	0	0.417441	19.8239	0
1258	15412.9	79.1885	159.763	159.763	0	0.41787	15.6263	0
1259	15435.1	80	15.3914	15.3914	0	0	15.4055	0
1260	15457.3	80	15.1344	15.1344	0	0	15.1437	0
1261	15479.5	80	15.8392	15.8392	0	0	15.8307	0
1262	15501.8	80	16.0298	16.0298	0	0	16.0212	0
1263	15524	80	16.855	16.855	0	0	16.8543	0
1264	15546.2	80	16.838	16.838	0	0	16.84	0
1265	15568.4	80	15.8261	15.8261	0	0	15.8261	0
1266	15590.6	80	15.1321	15.1321	0	0	15.1406	0
1267	15612.9	80	14.9415	14.9415	0	0	14.9501	0
1268	15635.1	80	14.751	14.751	0	0	14.7596	0
1269	15657.3	80	10.9113	10.9113	0	0	11.3529	0
1270	15679.5	80	1.09831	1.09831	0	0	1.5399	0
1271	15701.8	80	-8.71471	-8.71471	0	0	-8.27312	0
1272	15724	80	-16.4004	-16.4004	0	0	-15.9738	-20
1273	15746.2	80	-24.8641	-24.8641	0	0	-24.4262	-20
1274	15768.4	80	-34.6495	-34.6495	0	0	-34.2069	-20
1275	15790.6	80	-43.7704	-43.7704	0	0	-43.7645	-20
1276	15812.9	80	-46.279	-46.279	0	0	-46.264	-20
1277	15835.1	80	-41.6715	-41.6715	0	0	-42.0981	-20
1278	15857.3	80	-32.1919	-32.1919	0	0	-32.6185	-20
1279	15879.5	80	-22.6293	-22.6293	0	0	-23.0709	-20
1280	15901.8	80	-13.0528	-13.0528	0	0	-13.4502	0

1053

1281	15924	80	-4.22105	-4.22105	0	0	-4.61848	0
1282	15946.2	80	4.61067	4.61067	0	0	4.21324	0
1283	15968.4	79.9986	-25.7196	-25.7196	0	-8.58E-03	11.4892	-2
1284	15990.4	77.8961	-337.933	-319.137	-18.7957	-0.970575	10.1428	-2
1285	16011.5	74.0071	-366.356	-337.149	-29.2066	-1.0854	8.5374	-2
1286	16031.5	70.1046	-367.01	-355.232	-11.7775	-1.08285	7.00335	-2
1287	16050.5	66.2087	-367.63	-366.433	-1.1967	-1.08209	6.12118	-2
1288	16068.3	62.3132	-368.225	-368.225	0	-1.08209	5.52377	-2
1289	16085.1	58.5392	-279.068	-279.068	0	-0.873451	5.53001	-2
1290	16101.1	56.9264	-2.15227	-2.15227	0	-7.28E-02	6.00581	-2
1291	16116.9	56.921	6.74742	6.74742	0	0	6.70326	-2
1292	16132.7	56.921	7.44563	7.44563	0	0	7.40147	-2
1293	16148.5	56.921	8.14384	8.14384	0	0	8.09968	0
1294	16164.3	56.921	8.84205	8.84205	0	0	8.79789	0
1295	16180.1	56.921	20.2153	20.2153	0	0	20.0991	0
1296	16195.9	56.921	22.0522	22.0522	0	0	21.9361	0
1297	16211.7	56.921	23.8696	23.8696	0	0	23.773	0
1298	16227.6	56.921	25.0129	25.0129	0	0	24.9409	0
1299	16243.4	56.921	21.0047	21.0047	0	0.00E+00	21.0047	0
1300	16259.2	56.921	21.0047	21.0047	0	0	21.0047	0
1301	16275	56.921	21.0047	21.0047	0	0	21.0047	0
1302	16290.8	56.921	21.0047	21.0047	0	0	21.0047	0
1303	16306.6	56.921	21.0047	21.0047	0	0	21.0047	0
1304	16322.4	56.921	21.0047	21.0047	0	0	21.0047	0
1305	16338.2	56.921	19.7703	19.7703	0	0	19.8064	0
1306	16354	56.921	24.4978	24.4978	0	0	24.4978	0
1307	16369.9	56.921	24.4978	24.4978	0	0	24.4978	0
1308	16385.7	56.921	24.4978	24.4978	0	0	24.4978	0
1309	16401.5	56.921	30.5107	30.5107	0	0	30.5079	0
1310	16417.3	56.921	30.419	30.419	0	0	30.4326	0
1311	16433	55.6977	-265.041	-265.041	0	-0.775779	20.8336	0
1312	16448	51.8754	-369.7	-369.7	0	-1.12918	20.3155	0
1313	16461.8	47.822	-370.221	-369.847	-0.373987	-1.11418	14.6133	0
1314	16474.5	43.8162	-370.711	-369.845	-0.86569	-1.11153	13.2079	0
1315	16486.2	39.8195	-371.173	-369.846	-1.32768	-1.10912	11.9108	0
1316	16496.7	35.8311	-371.606	-369.846	-1.75936	-1.10692	10.7218	0
1317	16506.1	31.8502	-372.008	-369.85	-2.1583	-1.10495	9.64006	0
1318	16514.4	27.8759	-372.384	-369.851	-2.5327	-1.10322	8.66566	0
1319	16521.6	23.9074	-372.734	-369.852	-2.88278	-1.10173	7.79801	0
1320	16527.6	19.9439	-373.059	-369.852	-3.20695	-1.10046	7.03686	0
1321	16532.6	15.9838	-373.356	-369.852	-3.50361	-1.09999	6.57888	0
1322	16536.5	12.0238	-373.624	-369.852	-3.77176	-1.09999	6.30992	0
1323	16539.3	8.06389	-373.832	-227.112	-146.72	-1.09996	6.06762	0
1324	16541	4.118	-222.362	-1.01056	-221.352	-1.09764	5.85269	0
1325	16541.6	1.73935	-222.362	-0.426838	-221.936	-0.845272	5.73592	0
1326	16542	0	0	0	0	0	5.65662	0
1327	16542	0	0	0	0	0	5.65662	0
1328	16542	0	0	0	0	0	5.65662	0
1329	16542	0	0	0	0	0	5.65662	0
1330	16542	0	0	0	0	0	5.65662	0
1331	16542	0	0	0	0	0	5.65662	0
1332	16542	0	0	0	0	0	5.65662	0
1333	16542	0	0	0	0	0	5.65662	0
1334	16542	0	0	0	0	0	5.65662	0
1335	16542	0	0	0	0	0	5.65662	0

1336	16542	0	0	0	0	0	5.65662	0
1337	16542	0	0	0	0	0	5.65662	0
1338	16542	0	0	0	0	0	5.65662	0
1339	16542	0	0	0	0	0	5.65662	0
1340	16542	0	0	0	0	0	5.65662	0
1341	16542	0	0	0	0	0	5.65662	0
1342	16542	0	0	0	0	0	5.65662	0
1343	16542.2	0.650155	397.182	397.182	0	0.176592	5.68566	0
1344	16542.7	3.0692	397.182	397.182	0	0.833638	5.80002	0
1345	16543.8	6.39034	397.181	397.181	0	1.13307	5.97323	0
1346	16546.1	10.4672	397.181	397.181	0	1.13221	6.21149	0
1347	16549.6	14.5412	397.181	397.181	0	1.13138	6.47782	0
1348	16554.2	18.6123	397.181	397.181	0	1.13049	6.77213	0
1349	16560	22.6801	397.181	397.181	0	1.12954	7.09435	0
1350	16566.8	26.7443	397.185	397.185	0	1.12852	7.44438	0
1351	16574.8	30.8043	396.06	396.06	0	1.12606	7.82207	0
1352	16583.9	34.8228	390.406	390.406	0	1.10832	8.22351	0
1353	16594.1	38.5972	344.804	344.804	0	0.98556	8.62557	0
1354	16605.3	41.9228	311.9	311.9	0	0.883333	8.99988	0
1355	16617.4	44.9624	287.928	287.928	0	0.811733	9.35845	0
1356	16630.3	47.783	271.27	271.27	0	0.760866	9.70523	0
1357	16643.9	50.4378	256.118	256.118	0	0.718676	8.83732	0
1358	16658.3	52.9608	243.514	243.514	0	0.685562	7.58464	0
1359	16673.3	55.3687	231.789	231.789	0	0.654896	6.2513	0
1360	16689	57.6802	222.146	222.146	0	0.630916	4.84182	0
1361	16705.4	59.9077	212.853	212.853	0	0.608176	3.35954	-5
1362	16722.3	62.0669	206.25	206.25	0	0.593038	1.80831	-5
1363	16739.9	64.1756	199.907	199.907	0	0.579292	0.191822	-5
1364	16758	66.2372	194.159	194.159	0	0.567343	-1.48839	-5
1365	16776.7	68.2591	188.818	188.818	0	0.555713	-2.82732	-5
1366	16795.9	70.2292	183.61	183.61	0	0.539669	-2.5085	-5
1367	16815.7	72.1422	178.517	178.517	0	0.523964	-2.19261	-5
1368	16836	73.9996	173.572	173.572	0	0.508702	-1.87995	-5
1369	16856.8	75.8028	168.772	168.772	0	0.493872	-1.57079	-5
1370	16878.1	77.5535	164.113	164.113	0	0.479466	-1.26536	-5
1371	16899.8	79.2531	159.591	159.591	0	0.465467	-0.963845	-5
1372	16922	80	-0.8298	-0.8298	0	0	-0.8298	-5
1373	16944.2	80	0.47126	0.47126	0	0	0.405022	-5
1374	16966.5	80	1.94321	1.94321	0	0	1.87698	-5
1375	16988.7	80	3.41517	3.41517	0	0	3.34893	-5
1376	17010.9	80	4.88712	4.88712	0	0	4.82088	-2
1377	17033.1	80	6.35907	6.35907	0	0	6.29283	-2
1378	17055.4	80	7.83103	7.83103	0	0	7.76479	-2
1379	17077.6	80	8.4435	8.4435	0	0	8.4435	-2
1380	17099.8	80	8.4435	8.4435	0	0	8.4435	-2
1381	17122	80	8.4435	8.4435	0	0	8.4435	-2
1382	17144.2	80	8.4435	8.4435	0	0	8.4435	-2
1383	17166.5	80	8.4435	8.4435	0	0	8.4435	-2
1384	17188.7	80	8.4435	8.4435	0	0	8.4435	-2
1385	17210.9	80	8.4435	8.4435	0	0	8.4435	-2
1386	17233.1	80	8.4435	8.4435	0	0	8.4435	-2
1387	17255.4	80	8.4435	8.4435	0	0	8.4435	-2
1388	17277.6	80	8.9742	8.9742	0	0	8.97374	-2
1389	17299.8	80	8.97365	8.97365	0	0	8.97413	-2
1390	17322	80	8.4435	8.4435	0	0	8.4435	-2

1391	17344.2	80	8.53821	8.53821	0	0	8.54121	-2
1392	17366.5	80	8.47152	8.47152	0	0	8.47452	-2
1393	17388.7	80	8.4435	8.4435	0	0	8.4435	-2
1394	17410.9	80	8.4435	8.4435	0	0	8.4435	-2
1395	17433.1	80	8.4435	8.4435	0	0	8.4435	-2
1396	17455.4	80	8.4435	8.4435	0	0	8.4435	-2
1397	17477.6	80	8.4435	8.4435	0	0	8.4435	-2
1398	17499.8	80	8.4435	8.4435	0	0	8.4435	-2
1399	17522	80	8.4435	8.4435	0	0	8.4435	-2
1400	17544.2	80	8.4435	8.4435	0	0	8.4435	-2
1401	17566.5	80	8.4435	8.4435	0	0	8.4435	-2
1402	17588.7	80	8.4435	8.4435	0	0	8.4435	-2
1403	17610.9	80	8.4435	8.4435	0	0	8.4435	-2
1404	17633.1	80	8.4435	8.4435	0	0	8.4435	-2
1405	17655.4	80	8.4435	8.4435	0	0	8.4435	-2
1406	17677.6	80	8.4435	8.4435	0	0	8.4435	-2
1407	17699.8	80	8.4435	8.4435	0	0	8.4435	-2
1408	17722	80	8.4435	8.4435	0	0	8.4435	-2
1409	17744.2	80	8.4435	8.4435	0	0	8.4435	-2
1410	17766.5	80	8.4435	8.4435	0	0	8.4435	-2
1411	17788.7	80	8.4435	8.4435	0	0	8.4435	-2
1412	17810.9	80	8.4435	8.4435	0	0	8.4435	-2
1413	17833.1	80	8.4435	8.4435	0	0	8.4435	-2
1414	17855.4	80	8.4435	8.4435	0	0	8.4435	-2
1415	17877.6	80	8.4435	8.4435	0	0	8.4435	-2
1416	17899.8	80	14.0599	14.0599	0	0	13.7949	-2
1417	17922	80	19.9477	19.9477	0	0	19.6828	-2
1418	17944.2	80	25.8355	25.8355	0	0	25.5706	-2
1419	17966.5	80	31.7233	31.7233	0	0	31.4584	10
1420	17988.7	80	37.6111	37.6111	0	0	37.3462	10
1421	18010.9	80	43.499	43.499	0	0	43.234	10
1422	18033.1	80	45.5367	45.5367	0	0	45.5367	10
1423	18055.4	80	45.5367	45.5367	0	0	45.5367	10
1424	18077.6	80	45.5367	45.5367	0	0	45.5367	10
1425	18099.8	80	43.5059	43.5059	0	0	43.7267	10
1426	18122	80	38.5994	38.5994	0	0	38.8202	10
1427	18144.2	80	33.6929	33.6929	0	0	33.9137	10
1428	18166.5	80	28.7864	28.7864	0	0	29.0072	0
1429	18188.7	80	23.8799	23.8799	0	0	24.1007	0
1430	18210.9	80	18.9734	18.9734	0	0	19.1942	0
1431	18233.1	80	14.6257	14.6257	0	0	14.6257	0
1432	18255.4	80	14.6257	14.6257	0	0	14.6257	0
1433	18277.5	78.824	-265.031	-265.031	0	-0.772458	14.4151	0
1434	18298.9	75.0802	-366.176	-332.177	-33.9986	-1.1	13.7602	0
1435	18319.2	71.1203	-366.84	-350.526	-16.3144	-1.09999	13.0934	0
1436	18338.4	67.1603	-367.479	-363.744	-3.735	-1.09999	12.4532	0
1437	18356.5	63.2003	-368.092	-368.092	0	-1.09999	11.8398	0
1438	18373.5	59.2404	-368.68	-368.68	0	-1.09999	11.2529	0
1439	18389.4	55.2804	-369.244	-369.244	0	-1.1	10.6928	0
1440	18404.2	51.3205	-369.774	-369.774	0	-1.09999	10.1593	0
1441	18417.9	47.3605	-370.279	-369.847	-0.432379	-1.09999	9.65242	0
1442	18430.5	43.4005	-370.759	-369.845	-0.914317	-1.09999	9.17224	0
1443	18442	39.4406	-371.214	-369.846	-1.36878	-1.09999	8.71871	0
1444	18452.4	35.4806	-371.643	-369.847	-1.79684	-1.09999	8.29184	0
1445	18461.8	31.5206	-372.041	-369.85	-2.19108	-1.09999	7.89163	0

1446	18470	27.5607	-372.413	-369.851	-2.56169	-1.09998	7.51807	0
1447	18477.1	23.6007	-372.76	-369.852	-2.90838	-1.09999	7.17118	0
1448	18483.1	19.6408	-373.082	-369.852	-3.22973	-1.09999	6.85094	0
1449	18488	15.6808	-373.378	-369.852	-3.52571	-1.09999	6.55736	0
1450	18491.8	11.7209	-373.644	-369.852	-3.79232	-1.09999	6.29044	0
1451	18494.5	7.76096	-373.842	-204.779	-169.063	-1.09995	6.05018	0
1452	18496	3.93603	-222.362	-0.965904	-221.397	-1.07833	5.84342	0
1453	18496.6	1.55738	-222.362	-0.382182	-221.98	-0.825966	5.72738	0
1454	18497	0	0	0	0	0	5.65662	0
1455	18497	0	0	0	0	0	5.65662	0
1456	18497	0	0	0	0	0	5.65662	0
1457	18497	0	0	0	0	0	5.65662	0
1458	18497	0	0	0	0	0	5.65662	0
1459	18497	0	0	0	0	0	5.65662	0
1460	18497	0	0	0	0	0	5.65662	0
1461	18497	0	0	0	0	0	5.65662	0
1462	18497	0	0	0	0	0	5.65662	0
1463	18497	0	0	0	0	0	5.65662	0
1464	18497	0	0	0	0	0	5.65662	0
1465	18497	0	0	0	0	0	5.65662	0
1466	18497	0	0	0	0	0	5.65662	0
1467	18497	0	0	0	0	0	5.65662	0
1468	18497	0	0	0	0	0	5.65662	0
1469	18497	0	0	0	0	0	5.65662	0
1470	18497	0	0	0	0	0	5.65662	0
1471	18497.2	0.835217	397.182	397.182	0	0.226857	5.69406	0
1472	18497.8	3.25426	397.182	397.182	0	0.883904	5.80918	0
1473	18498.9	6.70237	397.181	397.181	0	1.133	5.99047	0
1474	18501.4	10.779	397.181	397.181	0	1.13215	6.23088	0
1475	18504.9	14.8528	397.181	397.181	0	1.13131	6.49934	0
1476	18509.6	18.9236	397.181	397.181	0	1.13042	6.79579	0
1477	18515.4	22.9911	397.181	397.181	0	1.12946	7.12014	0
1478	18522.4	27.0551	397.185	397.185	0	1.12844	7.4723	0
1479	18530.5	31.1139	395.625	395.625	0	1.12474	7.85203	0
1480	18539.7	35.1275	388.007	388.007	0	1.10696	8.25507	0
1481	18550	38.866	341.415	341.415	0	0.975453	8.65512	0
1482	18561.2	42.1646	309.987	309.987	0	0.877635	9.02783	0
1483	18573.4	45.1846	286.466	286.466	0	0.806721	9.38528	0
1484	18586.3	47.9915	270.051	270.051	0	0.757226	9.73141	0
1485	18600	50.6288	255.164	255.164	0	0.712315	10.0688	0
1486	18614.4	53.1209	242.714	242.714	0	0.675055	10.3985	0
1487	18629.5	55.4833	231.311	231.311	0	0.640527	10.7208	0
1488	18645.2	57.7348	221.918	221.918	0	0.612266	11.0368	0
1489	18661.6	59.8871	212.939	212.939	0	0.585239	11.3469	0
1490	18678.5	61.9548	206.588	206.588	0	0.565463	11.6523	0
1491	18696	63.9307	200.644	200.644	0	0.539225	14.7432	0
1492	18714	65.8365	195.218	195.218	0	0.517068	16.9092	0
1493	18732.5	67.6692	190.377	190.377	0	0.502047	17.2406	0
1494	18751.6	69.451	185.67	185.67	0	0.493889	15.3411	0
1495	18771.1	71.2019	181.02	181.02	0	0.479563	15.6276	0
1496	18791.1	72.9074	176.479	176.479	0	0.469611	14.5137	0
1497	18811.6	74.574	172.042	172.042	0	0.456981	14.4273	0
1498	18832.6	76.191	167.739	167.739	0	0.44081	15.6971	0
1499	18854	77.7443	163.606	163.606	0	0.42296	17.7163	0
1500	18875.8	79.2319	159.647	159.647	0	0.404429	20.1468	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010367

1501	18897.9	80	22.5861	22.5861	0	0	22.4868	4.5
1502	18920.1	80	24.7941	24.7941	0	0	24.6947	4.5
1503	18942.4	80	27.002	27.002	0	0	26.9026	4.5
1504	18964.6	80	28.5357	28.5357	0	0	28.5357	4.5
1505	18986.8	80	28.5357	28.5357	0	0	28.5357	4.5
1506	19009	80	28.5357	28.5357	0	0	28.5357	4.5
1507	19031.3	80	29.8245	29.8245	0	0	29.8218	4.5
1508	19053.5	80	29.8614	29.8614	0	0	29.8607	4.5
1509	19075.7	80	29.856	29.856	0	0	29.8572	4.5
1510	19097.9	80	28.9885	28.9885	0	0	29.3759	4.5
1511	19120.1	80	28.8217	28.8217	0	0	28.8277	4.5
1512	19142.4	80	28.6883	28.6883	0	0	28.6943	4.5
1513	19164.6	80	28.555	28.555	0	0	28.561	4.5
1514	19186.8	80	28.5357	28.5357	0	0	28.5357	4.5
1515	19209	80	28.5357	28.5357	0	0	28.5357	4.5
1516	19231.3	80	28.5357	28.5357	0	0	28.5357	4.5
1517	19253.5	80	28.5357	28.5357	0	0	28.5357	4.5
1518	19275.7	80	28.5357	28.5357	0	0	28.5357	4.5
1519	19297.9	80	28.5357	28.5357	0	0	28.5357	4.5
1520	19320.1	79.2431	-208.556	-208.556	0	-0.648982	28.2704	4.5
1521	19341.7	75.6501	-366.076	-329.538	-36.538	-1.13369	25.4973	4.5
1522	19362.1	71.5801	-366.763	-348.395	-18.3675	-1.1278	22.7767	4.5
1523	19381.4	67.5306	-367.419	-362.697	-4.72243	-1.12224	20.1997	4.5
1524	19399.6	63.5005	-368.046	-368.046	0	-1.11701	17.7649	0
1525	19416.7	59.4888	-368.644	-368.644	0	-1.1121	15.4714	0
1526	19432.7	55.4941	-369.213	-369.213	0	-1.10751	13.3181	0
1527	19447.5	51.5154	-369.748	-369.748	0	-1.10323	11.3041	0
1528	19461.3	47.5512	-370.255	-369.847	-0.408308	-1.09999	9.67622	0
1529	19474	43.5912	-370.737	-369.845	-0.892067	-1.09999	9.19475	0
1530	19485.5	39.6312	-371.194	-369.846	-1.34816	-1.09999	8.73993	0
1531	19496	35.6713	-371.623	-369.846	-1.77675	-1.09999	8.31178	0
1532	19505.3	31.7113	-372.022	-369.85	-2.17216	-1.09998	7.91029	0
1533	19513.6	27.7514	-372.396	-369.851	-2.5442	-1.09998	7.53545	0
1534	19520.7	23.7914	-372.744	-369.852	-2.8925	-1.09999	7.18727	0
1535	19526.8	19.8314	-373.067	-369.852	-3.21543	-1.09999	6.86575	0
1536	19531.8	15.8715	-373.364	-369.852	-3.5118	-1.09999	6.57089	0
1537	19535.6	11.9115	-373.631	-369.852	-3.77938	-1.09999	6.30268	0
1538	19538.4	7.95162	-373.836	-218.835	-155.001	-1.09996	6.06114	0
1539	19540	4.05056	-222.362	-0.99401	-221.368	-1.09048	5.84925	0
1540	19540.6	1.67191	-222.362	-0.410288	-221.952	-0.838117	5.73275	0
1541	19541	0	0	0	0	0	5.65662	0
1542	19541	0	0	0	0	0	5.65662	0
1543	19541	0	0	0	0	0	5.65662	0
1544	19541	0	0	0	0	0	5.65662	0
1545	19541	0	0	0	0	0	5.65662	0
1546	19541	0	0	0	0	0	5.65662	0
1547	19541	0	0	0	0	0	5.65662	0
1548	19541	0	0	0	0	0	5.65662	0
1549	19541	0	0	0	0	0	5.65662	0
1550	19541	0	0	0	0	0	5.65662	0
1551	19541	0	0	0	0	0	5.65662	0
1552	19541	0	0	0	0	0	5.65662	0
1553	19541	0	0	0	0	0	5.65662	0
1554	19541	0	0	0	0	0	5.65662	0
1555	19541	0	0	0	0	0	5.65662	0

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010368

1556	19541	0	0	0	0	0	5.65662	0
1557	19541	0	0	0	0	0	5.65662	0
1558	19541.2	0.718741	397.182	397.182	0	0.195221	5.68877	0
1559	19541.8	3.13778	397.182	397.182	0	0.852267	5.80341	0
1560	19542.9	6.50598	397.181	397.181	0	1.13305	5.9796	0
1561	19545.2	10.5827	397.181	397.181	0	1.13219	6.21866	0
1562	19548.7	14.6567	397.181	397.181	0	1.13135	6.48578	0
1563	19553.4	18.7277	397.181	397.181	0	1.13047	6.78088	0
1564	19559.1	22.7954	397.181	397.181	0	1.12951	7.10389	0
1565	19566	26.8595	397.185	397.185	0	1.12849	7.45471	0
1566	19574.1	30.9194	395.898	395.898	0	1.12612	7.65334	0
1567	19583.2	34.9453	389.614	389.614	0	1.1121	6.74321	0
1568	19593.4	38.7277	343.159	343.159	0	0.98934	5.67681	0
1569	19604.7	42.0786	310.667	310.667	0	0.893002	4.44305	0
1570	19616.8	45.1609	286.616	286.616	0	0.825464	3.0679	0
1571	19629.7	48.0433	269.748	269.748	0	0.780096	1.56506	0
1572	19643.5	50.7351	254.633	254.633	0	0.712692	9.40585	-6.5
1573	19657.9	53.2348	242.145	242.145	0	0.678594	8.60991	-6.5
1574	19673	55.6161	230.757	230.757	0	0.647524	7.75525	-6.5
1575	19688.8	57.8989	221.234	221.234	0	0.622442	6.84565	-6.5
1576	19705.2	59.6611	44.7967	44.7967	0	0.165911	5.82216	-6.5
1577	19721.8	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1578	19738.3	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1579	19754.9	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1580	19771.5	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1581	19788.1	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1582	19804.7	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1583	19821.3	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1584	19837.8	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1585	19854.4	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1586	19871	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1587	19887.6	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1588	19904.2	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1589	19920.8	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1590	19937.3	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1591	19953.9	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1592	19970.5	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1593	19987.1	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1594	20003.7	59.6992	0.39386	0.39386	0	0	0.39386	-6.5
1595	20020.3	59.6992	0.725502	0.725502	0	0	1.69839	-6.5
1596	20036.8	59.6992	-0.660964	-0.660964	0	0	-0.783163	-6.5
1597	20053.4	59.6992	1.36548	1.36548	0	0	1.24328	-6.5
1598	20070	59.6992	3.39193	3.39193	0	0	3.26973	-6.5
1599	20086.6	59.6992	5.41837	5.41837	0	0	5.29617	2
1600	20103.2	60.6023	210.656	210.656	0	0.587192	8.23781	2
1601	20120.4	62.6623	204.459	204.459	0	0.558971	11.758	2
1602	20138	64.622	198.564	198.564	0	0.53135	15.3746	2
1603	20156.2	66.4862	193.501	193.501	0	0.507385	18.5291	2
1604	20175	68.285	188.75	188.75	0	0.49276	18.8145	2
1605	20194.2	70.0319	184.135	184.135	0	0.478543	19.097	2
1606	20213.9	71.7283	179.619	179.619	0	0.464625	19.3762	2
1607	20234	73.3753	175.234	175.234	0	0.451097	19.652	2
1608	20254.6	74.9743	170.976	170.976	0	0.437951	19.9242	2
1609	20275.7	76.5267	166.846	166.846	0	0.425184	20.1926	2
1610	20297.1	78.034	162.835	162.835	0	0.412779	20.4571	2

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010353

1611	20319	79.4972	158.942	158.942	0	0.400726	20.7176	2
1612	20341.2	80	20.8079	20.8079	0	0	20.8079	2
1613	20363.4	80	20.8079	20.8079	0	0	20.8079	2
1614	20385.7	80	20.8079	20.8079	0	0	20.8079	2
1615	20407.7	78.1899	-304.327	-304.327	0	-0.903493	20.4847	2
1616	20428.9	74.2518	-366.317	-336.015	-30.3017	-1.11979	20.4536	2
1617	20449	70.1937	-366.998	-354.819	-12.1785	-1.1339	24.6491	2
1618	20467.9	66.0862	-367.651	-366.779	-0.872043	-1.1472	28.5894	2
1619	20485.7	61.9323	-368.285	-368.285	0	-1.1597	32.2727	2
1620	20502.3	58.1496	-210.747	-210.747	0	-0.76406	35.7616	13
1621	20518.2	56.921	39.6958	39.6958	0	0	39.453	13
1622	20534	56.921	43.536	43.536	0	0	43.2931	13
1623	20549.8	56.921	47.3761	47.3761	0	0	47.1333	13
1624	20565.7	56.921	51.0891	51.0891	0	0	50.9734	13
1625	20581.5	56.921	51.1059	51.1059	0	0	51.1059	13
1626	20597.3	56.921	61.994	61.994	0	0	61.922	13
1627	20613.1	56.921	63.1328	63.1328	0	0	63.0608	13
1628	20628.9	56.921	64.2716	64.2716	0	0	64.1996	13
1629	20644.7	56.921	65.4103	65.4103	0	0	65.3383	13
1630	20660.5	56.921	61.189	61.189	0	0	61.189	13
1631	20676.3	56.921	61.189	61.189	0	0	61.189	13
1632	20692.1	56.921	61.189	61.189	0	0	61.189	13
1633	20708	56.921	61.189	61.189	0	0	61.189	13
1634	20723.8	56.921	61.189	61.189	0	0	61.189	13
1635	20739.6	56.921	61.189	61.189	0	0	61.189	13
1636	20755.4	56.921	61.189	61.189	0	0	61.189	13
1637	20771.2	56.921	61.189	61.189	0	0	61.189	13
1638	20787	56.921	61.189	61.189	0	0	61.189	13
1639	20802.8	56.921	61.189	61.189	0	0	61.189	13
1640	20818.6	56.921	61.189	61.189	0	0	61.189	13
1641	20834.4	56.921	57.1281	57.1281	0	0	57.4152	13
1642	20850.3	56.921	52.5898	52.5898	0	0	52.8768	13
1643	20866	55.6792	-231.604	-231.604	0	-0.757337	48.1923	13
1644	20880.9	51.7525	-369.714	-369.714	0	-1.19596	43.3677	13
1645	20894.7	47.4694	-370.264	-369.847	-0.416699	-1.18451	38.8624	0
1646	20907.3	43.2258	-370.778	-369.845	-0.932919	-1.17404	34.7328	0
1647	20918.7	39.0181	-371.259	-369.846	-1.41284	-1.16456	30.9746	0
1648	20929	34.8428	-371.707	-369.847	-1.86009	-1.15604	27.5837	0
1649	20938.1	30.6966	-371.723	-369.851	-1.87238	-1.14836	24.5574	0
1650	20946	26.6258	-372.497	-369.851	-2.64588	-1.1258	16.3527	0
1651	20952.9	22.5879	-372.843	-369.852	-2.99138	-1.1187	13.552	0
1652	20958.6	18.5736	-373.161	-369.852	-3.30873	-1.11276	11.1833	0
1653	20963.2	14.5764	-373.452	-369.852	-3.59966	-1.10957	9.78621	0
1654	20966.7	10.5837	-373.709	-369.852	-3.85733	-1.10884	9.27357	0
1655	20969.1	6.59338	-363.378	-118.699	-244.679	-1.10827	8.86761	0
1656	20970.2	3.22367	-219.972	-0.79109	-219.181	-1.00906	8.60776	0
1657	20970.8	0.841334	-219.972	-0.206464	-219.765	-0.7524	8.45301	0
1658	20971	0	0	0	0	0	8.40066	0
1659	20971	0	0	0	0	0	8.40066	0
1660	20971	0	0	0	0	0	8.40066	0
1661	20971	0	0	0	0	0	8.40066	0
1662	20971	0	0	0	0	0	8.40066	0
1663	20971	0	0	0	0	0	8.40066	0
1664	20971	0	0	0	0	0	8.40066	0
1665	20971	0	0	0	0	0	8.40066	0

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010370

1666	20971	0	0	0	0	0	8.40066	0
1667	20971	0	0	0	0	0	8.40066	0
1668	20971	0	0	0	0	0	8.40066	0
1669	20971	0	0	0	0	0	8.40066	0
1670	20971	0	0	0	0	0	8.40066	0
1671	20971	0	0	0	0	0	8.40066	0
1672	20971	0	0	0	0	0	8.40066	0
1673	20971	0	0	0	0	0	8.40066	0
1674	20971	0	0	0	0	0	8.40066	0
1675	20971.4	1.56053	397.182	397.182	0	0.421538	8.44461	0
1676	20972	3.97306	397.182	397.182	0	1.07322	8.52069	0
1677	20973.6	7.8922	397.181	397.181	0	1.12533	8.6167	0
1678	20976.3	11.9427	397.181	397.181	0	1.12507	8.66665	0
1679	20980.2	15.9928	397.181	397.181	0	1.12504	8.6625	0
1680	20985.2	20.0432	397.181	397.181	0	1.12518	8.60488	0
1681	20991.3	24.0944	397.181	397.181	0	1.12548	8.49407	0
1682	20998.6	28.1471	397.188	397.188	0	1.12596	8.33026	0
1683	21006.9	32.1948	394.104	394.104	0	1.11951	8.11292	0
1684	21016.4	36.1772	375.315	375.315	0	1.07669	8.365	0
1685	21027	39.7846	329.836	329.836	0	0.940928	8.75706	0
1686	21038.5	42.9981	303.39	303.39	0	0.857995	9.12493	0
1687	21050.9	45.9534	281.97	281.97	0	0.792797	9.47875	0
1688	21064	48.7137	265.827	265.827	0	0.744624	9.82263	0
1689	21077.9	51.309	251.765	251.765	0	0.702145	10.1578	0
1690	21092.5	53.7634	239.504	239.504	0	0.662939	11.3485	0
1691	21107.8	56.0741	215.682	215.682	0	0.624736	13.6875	0
1692	21123.5	56.921	16.0259	16.0259	0	0	15.8934	0
1693	21139.3	56.921	18.1205	18.1205	0	0	17.988	0
1694	21155.2	56.921	20.2151	20.2151	0	0	20.0827	0
1695	21171	56.921	22.3098	22.3098	0	0	22.1773	6
1696	21186.8	56.921	35.0115	35.0115	0	0	34.807	6
1697	21202.6	56.921	38.2449	38.2449	0	0	38.0404	6
1698	21218.4	56.921	41.4783	41.4783	0	0	41.2738	6
1699	21234.2	56.921	43.4916	43.4916	0	0	43.4196	6
1700	21250	56.921	39.5513	39.5513	0	0	44.5584	6
1701	21265.8	56.921	39.5513	39.5513	0	0	39.5513	6
1702	21281.6	56.921	39.5513	39.5513	0	0	39.5513	6
1703	21297.5	56.921	39.5513	39.5513	0	0	39.5513	6
1704	21313.3	56.921	39.5513	39.5513	0	0	39.5513	6
1705	21329.1	56.921	39.5513	39.5513	0	0	39.5513	6
1706	21344.9	56.921	38.2412	38.2412	0	0	38.3737	6
1707	21360.7	56.921	36.1466	36.1466	0	0	36.2791	6
1708	21376.5	56.921	34.052	34.052	0	0	34.1845	6
1709	21392.3	56.921	30.5006	30.5006	0	0	30.668	6
1710	21408.1	56.921	33.1325	33.1325	0	0	33.265	0
1711	21423.9	56.921	31.0379	31.0379	0	0	31.1704	0
1712	21439.8	56.921	28.9433	28.9433	0	0	29.0758	0
1713	21455.6	56.921	27.3506	27.3506	0	0	27.411	0
1714	21471.4	56.921	26.3947	26.3947	0	0	26.4552	0
1715	21487.2	56.921	21.0047	21.0047	0	0	21.0047	0
1716	21503	56.921	21.0047	21.0047	0	0	21.0047	0
1717	21518.8	56.921	21.0047	21.0047	0	0	21.0047	0
1718	21534.6	56.921	21.0047	21.0047	0	0	21.0047	0
1719	21550.4	56.921	21.0047	21.0047	0	0	21.0047	0
1720	21566.2	56.821	-105.163	-105.163	0	-0.314478	20.9906	0

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1721	21581.7	54.1572	-367.562	-367.562	0	-1.10082	20.6218	0
1722	21596.2	50.0934	-369.937	-369.849	-8.75E-02	-1.12919	20.0825	0
1723	21609.6	46.0607	-370.442	-369.846	-0.596381	-1.11314	14.0322	0
1724	21621.8	42.0585	-370.916	-369.845	-1.07084	-1.11058	12.6744	0
1725	21632.9	38.065	-371.363	-369.846	-1.51751	-1.10826	11.4248	0
1726	21642.9	34.0795	-371.785	-369.847	-1.93716	-1.10617	10.2829	0
1727	21651.9	30.1011	-372.18	-369.851	-2.32874	-1.10432	9.24844	0
1728	21659.7	26.1289	-372.545	-369.851	-2.69309	-1.10268	8.321	0
1729	21666.4	22.1622	-372.88	-369.852	-3.02821	-1.10128	7.50022	0
1730	21672	18.2001	-373.19	-369.852	-3.33793	-1.10011	6.78554	0
1731	21676.5	14.2402	-373.474	-369.852	-3.62226	-1.09999	6.45717	0
1732	21679.9	10.2802	-373.726	-369.852	-3.87399	-1.1	6.19995	0
1733	21682.2	6.32043	-348.699	-98.5755	-250.124	-1.09991	5.96939	0
1734	21683.3	3.07066	-222.362	-0.753543	-221.609	-0.986518	5.80009	0
1735	21683.8	0.692013	-222.362	-0.169821	-222.193	-0.734155	5.68755	0
1736	21684	0	0	0	0	0	5.65662	0
1737	21684	0	0	0	0	0	5.65662	0
1738	21684	0	0	0	0	0	5.65662	0
1739	21684	0	0	0	0	0	5.65662	0
1740	21684	0	0	0	0	0	5.65662	0
1741	21684	0	0	0	0	0	5.65662	0
1742	21684	0	0	0	0	0	5.65662	0
1743	21684	0	0	0	0	0	5.65662	0
1744	21684	0	0	0	0	0	5.65662	0
1745	21684	0	0	0	0	0	5.65662	0
1746	21684	0	0	0	0	0	5.65662	0
1747	21684	0	0	0	0	0	5.65662	0
1748	21684	0	0	0	0	0	5.65662	0
1749	21684	0	0	0	0	0	5.65662	0
1750	21684	0	0	0	0	0	5.65662	0
1751	21684	0	0	0	0	0	5.65662	0
1752	21684	0	0	0	0	0	5.65662	0
1753	21684.4	1.71528	397.182	397.182	0	0.465894	5.73479	0
1754	21685	4.13432	397.182	397.182	0	1.12294	5.85353	0
1755	21686.7	8.18574	397.181	397.181	0	1.13268	6.07468	0
1756	21689.5	12.2614	397.181	397.181	0	1.13185	6.3253	0
1757	21693.5	16.3341	397.181	397.181	0	1.131	6.60396	0
1758	21698.6	20.4038	397.181	397.181	0	1.13008	6.91057	0
1759	21704.8	24.47	397.181	397.181	0	1.1291	7.24505	0
1760	21712.2	28.5327	397.189	397.189	0	1.12806	7.6073	0
1761	21720.7	32.5745	393.569	393.569	0	1.11318	9.75351	0
1762	21730.3	36.5051	371.181	371.181	0	1.05047	13.1248	0
1763	21740.9	40.0073	327.156	327.156	0	0.909083	16.7953	0
1764	21752.5	4.31E+01	302.565	302.565	0	8.22E-01	20.7208	0
1765	21764.8	45.9125	282.209	282.209	0	0.749443	24.6201	0
1766	21778	48.5218	266.949	266.949	0	0.703916	24.9447	0
1767	21791.8	50.9743	253.438	253.438	0	0.663131	25.2603	14
1768	21806.3	53.2944	241.847	241.847	0	0.628449	25.5683	14
1769	21821.4	55.4937	231.267	231.267	0	0.596415	25.8687	14
1770	21837.1	57.5902	222.521	222.521	0	0.570105	26.1627	0
1771	21853.4	59.5943	214.161	214.161	0	0.544944	26.4507	0
1772	21870.2	61.5398	207.836	207.836	0	0.538956	22.0408	0
1773	21887.6	63.4757	202.013	202.013	0	0.536758	16.9647	0
1774	21905.5	65.3829	196.416	196.416	0	0.5182	17.7184	0
1775	21923.9	67.1761	191.679	191.679	0	0.48005	26.1309	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010372

1776	21942.8	68.8329	187.303	187.303	0	0.442384	34.7385	0
1777	21962.1	70.3552	183.274	183.274	0	0.40522	43.5237	0
1778	21981.8	71.7446	179.575	179.575	0	0.368545	52.4694	20
1779	22001.9	73.0032	176.224	176.224	0	0.332467	61.5586	20
1780	22022.4	74.133	173.216	173.216	0	0.297016	70.7752	20
1781	22043.1	75.1491	170.511	170.511	0	0.275195	75.594	20
1782	22064.1	76.1247	167.915	167.915	0	0.267176	75.7625	20
1783	22085.4	76.923	-349.392	-323.644	-25.7481	-0.554906	70.4675	20
1784	22106.1	72.4371	-366.612	-344.424	-22.1881	-1.2367	60.5399	20
1785	22125.7	68.0326	-367.333	-361.278	-6.05525	-1.21176	51.2056	20
1786	22144	63.7151	-368.008	-368.008	0	-1.18837	42.452	0
1787	22161.1	59.4791	-368.64	-368.64	0	-1.16651	34.2668	0
1788	22177	55.3191	-369.233	-369.233	0	-1.14613	26.6373	0
1789	22191.8	51.2299	-369.781	-369.781	0	-1.1272	19.5526	0
1790	22205.5	47.2062	-370.294	-369.847	-0.447292	-1.10973	13.002	0
1791	22218	43.2371	-370.779	-369.845	-0.933382	-1.09999	9.153	0
1792	22229.5	39.2772	-371.232	-369.846	-1.38646	-1.09999	8.70057	0
1793	22239.9	35.3172	-371.661	-369.847	-1.81403	-1.09999	8.2748	0
1794	22249.1	31.3573	-372.057	-369.85	-2.2073	-1.09999	7.87569	0
1795	22257.3	27.3973	-372.428	-369.851	-2.57668	-1.09998	7.50323	0
1796	22264.3	23.4373	-372.774	-369.852	-2.92199	-1.09999	7.15744	0
1797	22270.3	19.4774	-373.094	-369.852	-3.24199	-1.09999	6.8383	0
1798	22275.2	15.5174	-373.389	-369.852	-3.53676	-1.09999	6.54582	0
1799	22278.9	11.5575	-373.656	-369.852	-3.8034	-1.09999	6.28	0
1800	22281.5	7.59758	-373.847	-192.734	-181.113	-1.09995	6.04084	0
1801	22283.1	3.83789	-222.362	-0.94182	-221.421	-1.06792	5.83844	0
1802	22283.6	1.45924	-222.362	-0.358098	-222.004	-0.815554	5.7228	0
1803	22284	0	0	0	0	0	5.65662	0
1804	22284	0	0	0	0	0	5.65662	0
1805	22284	0	0	0	0	0	5.65662	0
1806	22284	0	0	0	0	0	5.65662	0
1807	22284	0	0	0	0	0	5.65662	0
1808	22284	0	0	0	0	0	5.65662	0
1809	22284	0	0	0	0	0	5.65662	0
1810	22284	0	0	0	0	0	5.65662	0
1811	22284	0	0	0	0	0	5.65662	0
1812	22284	0	0	0	0	0	5.65662	0
1813	22284	0	0	0	0	0	5.65662	0
1814	22284	0	0	0	0	0	5.65662	0
1815	22284	0	0	0	0	0	5.65662	0
1816	22284	0	0	0	0	0	5.65662	0
1817	22284	0	0	0	0	0	5.65662	0
1818	22284	0	0	0	0	0	5.65662	0
1819	22284	0	0	0	0	0	5.65662	0
1820	22284.2	0.935023	397.182	397.182	0	0.253966	5.69861	0
1821	22284.8	3.35406	397.182	397.182	0	0.911013	5.81414	0
1822	22286	6.87064	397.181	397.181	0	1.13297	5.99983	0
1823	22288.5	10.9471	397.181	397.181	0	1.13211	6.2414	0
1824	22292.1	15.0208	397.181	397.181	0	1.13128	6.51102	0
1825	22296.8	19.0915	397.181	397.181	0	1.13039	6.80863	0
1826	22302.7	23.1589	397.181	397.181	0	1.12942	7.13412	0
1827	22309.7	27.2227	397.186	397.186	0	1.1284	7.48742	0
1828	22317.8	31.2808	395.39	395.39	0	1.124	7.86824	0
1829	22327.1	35.2916	386.48	386.48	0	1.10561	8.27213	0
1830	22337.4	39.0094	339.608	339.608	0	0.970064	8.67093	0

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010373

1831	22348.7	42.2943	308.96	308.96	0	0.87458	9.04286	0
1832	22360.9	45.2985	285.8	285.8	0	0.799182	11.1679	0
1833	22373.8	48.062	269.639	269.639	0	0.740855	14.9459	0
1834	22387.6	50.6224	255.195	255.195	0	0.686723	18.9063	0
1835	22402	53.0046	243.295	243.295	0	0.640028	23.0355	0
1836	22417	55.2226	232.399	232.399	0	0.595492	27.321	0
1837	22432.6	57.2933	223.76	223.76	0	0.557482	31.7518	12
1838	22448.8	59.2299	215.681	215.681	0	0.520721	36.3177	12
1839	22465.5	61.0397	209.34	209.34	0	0.488304	41.0091	12
1840	22482.7	62.7426	204.218	204.218	0	0.459468	45.819	12
1841	22500.4	64.3463	199.394	199.394	0	0.435915	49.1078	12
1842	22518.5	65.8895	195.078	195.078	0	0.422597	49.3467	12
1843	22537	67.3877	191.12	191.12	0	0.410424	49.5825	12
1844	22555.9	68.8427	187.277	187.277	0	0.398592	49.8152	12
1845	22575.2	70.2557	183.539	183.539	0	0.387081	50.0446	12
1846	22594.9	71.6279	179.886	179.886	0	0.375822	50.2706	12
1847	22615	72.9601	176.339	176.339	0	0.364883	50.4931	12
1848	22635.4	74.2535	172.896	172.896	0	0.354255	50.712	12
1849	22656.2	75.5093	169.553	169.553	0	0.343932	50.9272	12
1850	22677.4	76.7284	166.309	166.309	0	0.333906	51.1388	12
1851	22698.9	77.9121	163.159	163.159	0	0.324166	51.3466	12
1852	22720.7	79.0612	160.102	160.102	0	0.314703	51.5506	12
1853	22742.8	80	53.3958	53.3958	0	0	53.3932	12
1854	22765	80	53.4264	53.4264	0	0	53.4262	12
1855	22787.2	80	53.4063	53.4063	0	0	53.4083	12
1856	22809.4	80	52.5001	52.5001	0	0	52.7272	12
1857	22831.7	80	52.2779	52.2779	0	0	52.2761	12
1858	22853.9	80	52.3459	52.3459	0	0	52.3417	12
1859	22876.1	80	52.4646	52.4646	0	0	52.4582	12
1860	22898.3	80	52.4289	52.4289	0	0	51.7189	12
1861	22920.6	80	54.1536	54.1536	0	0	54.1385	12
1862	22942.7	79.291	-190.102	-190.102	0	-0.674287	55.3578	12
1863	22964.3	75.5373	-366.093	-330.06	-36.0332	-1.20791	51.1169	12
1864	22984.7	71.2319	-366.819	-350.008	-16.8106	-1.18754	43.3549	12
1865	23003.9	66.9911	-367.503	-364.222	-3.28107	-1.16936	36.3895	12
1866	23021.9	62.8094	-368.148	-368.148	0	-1.15474	30.697	0
1867	23038.8	58.6787	-368.758	-368.758	0	-1.14107	25.3648	0
1868	23054.5	54.5955	-369.334	-369.334	0	-1.12833	20.3875	0
1869	23069.1	50.5564	-369.875	-369.849	-2.55E-02	-1.1167	15.8321	0
1870	23082.6	46.5566	-370.379	-369.846	-0.532261	-1.10635	11.7522	0
1871	23095	42.59	-370.854	-369.845	-1.00891	-1.09998	9.07724	0
1872	23106.3	38.63	-371.302	-369.846	-1.45647	-1.09999	8.62917	0
1873	23116.4	34.6701	-371.726	-369.847	-1.8787	-1.09999	8.20776	0
1874	23125.5	30.7101	-372.122	-369.851	-2.27155	-1.09999	7.813	0
1875	23133.5	26.7502	-372.488	-369.851	-2.63609	-1.09999	7.4449	0
1876	23140.4	22.7902	-372.828	-369.852	-2.9759	-1.09998	7.10346	0
1877	23146.2	18.8303	-373.142	-369.852	-3.29057	-1.09999	6.78868	0
1878	23150.8	14.8703	-373.432	-369.852	-3.58002	-1.09999	6.50056	0
1879	23154.4	10.9103	-373.692	-369.852	-3.83988	-1.09999	6.2391	0
1880	23156.9	6.95049	-373.868	-145.027	-228.84	-1.09994	6.00429	0
1881	23158.2	3.44918	-222.362	-0.84643	-221.516	-1.02668	5.81889	0
1882	23158.7	1.07053	-222.362	-0.262708	-222.1	-0.774314	5.70482	0
1883	23159	0	0	0	0	0	5.65662	0
1884	23159	0	0	0	0	0	5.65662	0
1885	23159	0	0	0	0	0	5.65662	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010371

1886	23159	0	0	0	0	0	5.65662	0
1887	23159	0	0	0	0	0	5.65662	0
1888	23159	0	0	0	0	0	5.65662	0
1889	23159	0	0	0	0	0	5.65662	0
1890	23159	0	0	0	0	0	5.65662	0
1891	23159	0	0	0	0	0	5.65662	0
1892	23159	0	0	0	0	0	5.65662	0
1893	23159	0	0	0	0	0	5.65662	0
1894	23159	0	0	0	0	0	5.65662	0
1895	23159	0	0	0	0	0	5.65662	0
1896	23159	0	0	0	0	0	5.65662	0
1897	23159	0	0	0	0	0	5.65662	0
1898	23159	0	0	0	0	0	5.65662	0
1899	23159	0	0	0	0	0	5.65662	0
1900	23159.3	1.33033	397.182	397.182	0	0.361338	5.71681	0
1901	23159.9	3.74938	397.182	397.182	0	1.01838	5.83397	0
1902	23161.4	7.53693	397.181	397.181	0	1.13282	6.03739	0
1903	23164	11.613	397.181	397.181	0	1.13198	6.28355	0
1904	23167.8	15.6862	397.181	397.181	0	1.13114	6.55775	0
1905	23172.7	19.7564	397.181	397.181	0	1.13023	6.85991	0
1906	23178.8	23.8232	397.181	397.181	0	1.12926	7.18996	0
1907	23186	27.8864	397.187	397.187	0	1.12823	7.5478	0
1908	23194.3	31.9288	394.478	394.478	0	1.11324	10.6521	0
1909	23203.7	35.8713	379.172	379.172	0	1.06804	15.2129	0
1910	23214.1	39.425	334.368	334.368	0	0.920729	20.2202	0
1911	23225.5	42.5281	307.11	307.11	0	0.82086	25.6031	0
1912	23237.7	45.3241	285.65	285.65	0	0.740064	31.3261	0
1913	23250.7	4.79E+01	270.765	270.765	0	6.79E-01	37.358	0
1914	23264.3	50.197	257.321	257.321	0	0.617931	44.7167	20
1915	23278.6	52.3218	246.706	246.706	0	0.566065	51.9094	20
1916	23293.4	54.2669	236.989	236.989	0	0.517932	58.7329	20
1917	23308.7	56.045	228.967	228.967	0	0.473935	65.7447	20
1918	23324.5	57.6733	222.175	222.175	0	0.43333	72.924	20
1919	23340.7	59.1866	215.862	215.862	0	0.411629	74.0755	20
1920	23357.4	60.6404	210.542	210.542	0	0.397037	73.6743	20
1921	23374.4	62.0457	206.314	206.314	0	0.384508	73.7601	20
1922	23391.8	63.4068	202.22	202.22	0	0.372385	73.8398	20
1923	23409.6	64.7238	198.258	198.258	0	0.360044	74.1281	20
1924	23427.8	66.0011	194.783	194.783	0	0.349981	74.0929	20
1925	23446.3	67.2419	191.506	191.506	0	0.339901	74.2882	20
1926	23465.1	68.4467	188.323	188.323	0	0.329225	74.4803	20
1927	23484.3	69.594	185.292	185.292	0	0.313878	77.044	20
1928	23503.8	70.6995	182.358	182.358	0	0.300575	78.6959	20
1929	23523.6	71.7648	179.521	179.521	0	0.291809	78.8804	20
1930	23543.7	72.8071	176.746	176.746	0	0.288349	77.2968	20
1931	23564	73.8293	174.025	174.025	0	0.279953	77.4693	20
1932	23584.7	74.8334	171.352	171.352	0	0.275576	76.3038	20
1933	23605.6	75.8119	168.748	168.748	0	0.268443	76.1583	20
1934	23626.8	76.7652	166.211	166.211	0	0.261526	76.006	20
1935	23648.3	77.6934	163.741	163.741	0	0.254272	76.0368	20
1936	23670	78.6004	161.328	161.328	0	0.255591	73.1671	20
1937	23691.9	79.5586	158.778	158.778	0	0.275819	63.6388	20
1938	23714.1	80	53.4759	53.4759	0	0	53.9175	20
1939	23736.3	79.9448	-32.7428	-32.7428	0	-0.185142	44.0948	0
1940	23758.3	77.772	-319.7	-319.7	0	-0.985661	34.0053	0

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010375

1941	23779.4	73.7094	-366.399	-338.528	-27.87	-1.13032	24.0107	0
1942	23799.3	69.6888	-367.069	-356.596	-10.4729	-1.10487	14.5493	0
1943	23818.1	65.7276	-367.707	-367.707	0	-1.09999	12.2282	0
1944	23835.8	61.7676	-368.307	-368.307	0	-1.09999	11.6244	0
1945	23852.4	57.8076	-368.884	-368.884	0	-1.09998	11.0472	0
1946	23867.9	53.8477	-369.436	-369.436	0	-1.09999	10.4967	0
1947	23882.3	49.8877	-369.962	-369.849	-0.113394	-1.1	9.97281	0
1948	23895.6	45.9278	-370.459	-369.846	-0.61328	-1.09999	9.47561	0
1949	23907.8	41.9678	-370.927	-369.845	-1.08153	-1.09999	9.00507	0
1950	23918.9	38.0078	-371.37	-369.846	-1.5238	-1.09998	8.56119	0
1951	23928.9	34.0479	-371.788	-369.848	-1.94038	-1.09999	8.14396	0
1952	23937.8	30.0879	-372.181	-369.851	-2.33004	-1.1	7.7534	0
1953	23945.7	26.128	-372.545	-369.851	-2.69324	-1.09999	7.38949	0
1954	23952.4	22.168	-372.879	-369.852	-3.02778	-1.09998	7.05224	0
1955	23958	18.208	-373.189	-369.852	-3.33733	-1.09998	6.74164	0
1956	23962.5	14.2481	-373.474	-369.852	-3.62172	-1.09999	6.45771	0
1957	23965.9	10.2881	-373.726	-369.852	-3.87356	-1.1	6.20043	0
1958	23968.2	6.32835	-349.158	-99.1593	-249.999	-1.09991	5.96983	0
1959	23969.3	3.07542	-222.362	-0.75471	-221.608	-0.987023	5.80033	0
1960	23969.8	0.696771	-222.362	-0.170988	-222.191	-0.73466	5.68777	0
1961	23970	0	0	0	0	0	5.65662	0
1962	23970	0	0	0	0	0	5.65662	0
1963	23970	0	0	0	0	0	5.65662	0
1964	23970	0	0	0	0	0	5.65662	0
1965	23970	0	0	0	0	0	5.65662	0
1966	23970	0	0	0	0	0	5.65662	0
1967	23970	0	0	0	0	0	5.65662	0
1968	23970	0	0	0	0	0	5.65662	0
1969	23970	0	0	0	0	0	5.65662	0
1970	23970	0	0	0	0	0	5.65662	0
1971	23970	0	0	0	0	0	5.65662	0
1972	23970	0	0	0	0	0	5.65662	0
1973	23970	0	0	0	0	0	5.65662	0
1974	23970	0	0	0	0	0	5.65662	0
1975	23970	0.00E+00	0	0.00E+00	0	0	5.65662	0
1976	23970	0	0	0	0	0	5.65662	0
1977	23970	0	0	0	0	0	5.65662	0
1978	23970	0	0	0	0	0	5.65662	0
1979	23970	0	0	0	0	0	5.65662	0
1980	23970	0	0	0	0	0	5.65662	0
1981	23970	0	0	0	0	0	5.65662	0
1982	23970	0	0	0	0	0	5.65662	0
1983	23970	0	0	0	0	0	5.65662	0
1984	23970	0	0	0	0	0	5.65662	0
1985	23970	0	0	0	0	0	5.65662	0
1986	23970	0	0	0	0	0	5.65662	0
1987	23970	0	0	0	0	0	5.65662	0
1988	23970	0	0	0	0	0	5.65662	0
1989	23970	0	0	0	0	0	5.65662	0
1990	23970	0	0	0	0	0	5.65662	0
1991	23970	0	0	0	0	0	5.65662	0
1992	23970	0	0	0	0	0	5.65662	0
1993	23970	0	0	0	0	0	5.65662	0
1994	23970	0	0	0	0	0	5.65662	0
1995	23970	0	0	0	0	0	5.65662	0

1966

1996	23970	0	0	0	0	0	5.65662	0
1997	23970	0	0	0	0	0	5.65662	0
1998	23970	0	0	0	0	0	5.65662	0
1999	23970	0	0	0	0	0	5.65662	0
2000	23970	0	0	0	0	0	5.65662	0
2001	23970	0	0	0	0	0	5.65662	0
2002	23970	0	0	0	0	0	5.65662	0
2003	23970	0	0	0	0	0	5.65662	0
2004	23970	0	0	0	0	0	5.65662	0
2005	23970	0	0	0	0	0	5.65662	0
2006	23970	0	0	0	0	0	5.65662	0
2007	23970	0	0	0	0	0	5.65662	0
2008	23970	0	0	0	0	0	5.65662	0
2009	23970	0	0	0	0	0	5.65662	0
2010	23970	0	0	0	0	0	5.65662	0
2011	23970	0	0	0	0	0	5.65662	0
2012	23970	0	0	0	0	0	5.65662	0
2013	23970	0	0	0	0	0	5.65662	0
2014	23970	0	0	0	0	0	5.65662	0
2015	23970	0	0	0	0	0	5.65662	0
2016	23970	0	0	0	0	0	5.65662	0
2017	23970	0	0	0	0	0	5.65662	0
2018	23970	0	0	0	0	0	5.65662	0
2019	23970	0	0	0	0	0	5.65662	0
2020	23970	0	0	0	0	0	5.65662	0
2021	23970	0	0	0	0	0	5.65662	0
2022	23970	0	0	0	0	0	5.65662	0
2023	23970	0	0	0	0	0	5.65662	0
2024	23970	0	0	0	0	0	5.65662	0
2025	23970	0	0	0	0	0	5.65662	0
2026	23970	0	0	0	0	0	5.65662	0
2027	23970	0	0	0	0	0	5.65662	0
2028	23970	0	0	0	0	0	5.65662	0
2029	23970	0	0	0	0	0	5.65662	0
2030	23970	0	0	0	0	0	5.65662	0
2031	23970	0	0	0	0	0	5.65662	0
2032	23970	0	0	0	0	0	5.65662	0
2033	23970	0	0	0	0	0	5.65662	0
2034	23970	0	0	0	0	0	5.65662	0
2035	23970	0	0	0	0	0	5.65662	0
2036	23970	0	0	0	0	0	5.65662	0
2037	23970	0	0	0	0	0	5.65662	0
2038	23970	0	0	0	0	0	5.65662	0
2039	23970	0	0	0	0	0	5.65662	0
2040	23970	0	0	0	0	0	5.65662	0
2041	23970	0	0	0	0	0	5.65662	0
2042	23970	0	0	0	0	0	5.65662	0
2043	23970	0	0	0	0	0	5.65662	0
2044	23970	0	0	0	0	0	5.65662	0
2045	23970	0	0	0	0	0	5.65662	0
2046	23970	0	0	0	0	0	5.65662	0
2047	23970	0	0	0	0	0	5.65662	0
2048	23970	0	0	0	0	0	5.65662	0
2049	23970	0	0	0	0	0	5.65662	0
2050	23970	0	0	0	0	0	5.65662	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010377

2051	23970	0	0	0	0	0	5.65662	0
2052	23970	0	0	0	0	0	5.65662	0
2053	23970	0	0	0	0	0	5.65662	0
2054	23970	0	0	0	0	0	5.65662	0
2055	23970	0	0	0	0	0	5.65662	0
2056	23970	0	0	0	0	0	5.65662	0
2057	23970	0	0	0	0	0	5.65662	0
2058	23970	0	0	0	0	0	5.65662	0
2059	23970	0	0	0	0	0	5.65662	0
2060	23970	0	0	0	0	0	5.65662	0
2061	23970	0	0	0	0	0	5.65662	0
2062	23970	0	0	0	0	0	5.65662	0
2063	23970	0	0	0	0	0	5.65662	0
2064	23970	0	0	0	0	0	5.65662	0
2065	23970	0	0	0	0	0	5.65662	0
2066	23970	0	0	0	0	0	5.65662	0
2067	23970	0	0	0	0	0	5.65662	0
2068	23970	0	0	0	0	0	5.65662	0
2069	23970	0	0	0	0	0	5.65662	0
2070	23970	0	0	0	0	0	5.65662	0
2071	23970	0	0	0	0	0	5.65662	0
2072	23970	0	0	0	0	0	5.65662	0
2073	23970	0	0	0	0	0	5.65662	0
2074	23970	0	0	0	0	0	5.65662	0
2075	23970	0	0	0	0	0	5.65662	0
2076	23970	0	0	0	0	0	5.65662	0
2077	23970	0	0	0	0	0	5.65662	0
2078	23970	0	0	0	0	0	5.65662	0
2079	23970	0	0	0	0	0	5.65662	0
2080	23970	0	0	0	0	0	5.65662	0
2081	23970	0	0	0	0	0	5.65662	0
2082	23970	0	0	0	0	0	5.65662	0
2083	23970	0	0	0	0	0	5.65662	0
2084	23970	0	0	0	0	0	5.65662	0
2085	23970	0	0	0	0	0	5.65662	0
2086	23970	0	0	0	0	0	5.65662	0
2087	23970	0	0	0	0	0	5.65662	0
2088	23970	0	0	0	0	0	5.65662	0
2089	23970	0	0	0	0	0	5.65662	0
2090	23970	0	0	0	0	0	5.65662	0
2091	23970	0	0	0	0	0	5.65662	0
2092	23970	0	0	0	0	0	5.65662	0
2093	23970	0	0	0	0	0	5.65662	0
2094	23970	0	0	0	0	0	5.65662	0
2095	23970	0	0	0	0	0	5.65662	0
2096	23970	0	0	0	0	0	5.65662	0
2097	23970	0	0	0	0	0	5.65662	0
2098	23970	0	0	0	0	0	5.65662	0
2099	23970	0	0	0	0	0	5.65662	0
2100	23970	0	0	0	0	0	5.65662	0
2101	23970	0	0	0	0	0	5.65662	0
2102	23970	0	0	0	0	0	5.65662	0
2103	23970	0	0	0	0	0	5.65662	0
2104	23970	0	0	0	0	0	5.65662	0
2105	23970	0	0	0	0	0	5.65662	0

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010373

2106	23970	0	0	0	0	0	5.65662	0
2107	23970	0	0	0	0	0	5.65662	0
2108	23970	0	0	0	0	0	5.65662	0
2109	23970	0	0	0	0	0	5.65662	0
2110	23970	0	0	0	0	0	5.65662	0
2111	23970	0	0	0	0	0	5.65662	0
2112	23970	0	0	0	0	0	5.65662	0
2113	23970	0	0	0	0	0	5.65662	0
2114	23970	0	0	0	0	0	5.65662	0
2115	23970	0	0	0	0	0	5.65662	0
2116	23970	0	0	0	0	0	5.65662	0
2117	23970	0	0	0	0	0	5.65662	0
2118	23970	0	0	0	0	0	5.65662	0
2119	23970	0	0	0	0	0	5.65662	0
2120	23970	0	0	0	0	0	5.65662	0
2121	23970	0	0	0	0	0	5.65662	0
2122	23970	0	0	0	0	0	5.65662	0
2123	23970	0	0	0	0	0	5.65662	0
2124	23970	0	0	0	0	0	5.65662	0
2125	23970	0	0	0	0	0	5.65662	0
2126	23970	0	0	0	0	0	5.65662	0
2127	23970	0	0	0	0	0	5.65662	0
2128	23970	0	0	0	0	0	5.65662	0
2129	23970	0	0	0	0	0	5.65662	0
2130	23970	0	0	0	0	0	5.65662	0
2131	23970	0	0	0	0	0	5.65662	0
2132	23970	0	0	0	0	0	5.65662	0
2133	23970	0	0	0	0	0	5.65662	0
2134	23970	0	0	0	0	0	5.65662	0
2135	23970	0	0	0	0	0	5.65662	0
2136	23970	0	0	0	0	0	5.65662	0
2137	23970	0	0	0	0	0	5.65662	0
2138	23970	0	0	0	0	0	5.65662	0
2139	23970	0	0	0	0	0	5.65662	0
2140	23970	0	0	0	0	0	5.65662	0
2141	23970.4	1.71044	397.182	397.182	0	0.46458	5.73456	0
2142	23971	4.12948	397.182	397.182	0	1.12163	5.85328	0
2143	23972.7	8.17758	397.181	397.181	0	1.13268	6.0742	0
2144	23975.5	12.2532	397.181	397.181	0	1.13185	6.32477	0
2145	23979.5	16.326	397.181	397.181	0	1.131	6.60337	0
2146	23984.6	20.3956	397.181	397.181	0	1.13008	6.90993	0
2147	23990.8	24.4619	397.181	397.181	0	1.1291	7.24435	0
2148	23998.2	28.5246	397.189	397.189	0	1.12806	7.60654	0
2149	24006.7	32.5734	393.571	393.571	0	1.11828	7.99542	0
2150	24016.3	36.5378	370.768	370.768	0	1.0631	8.40319	0
2151	24026.9	40.0997	326.391	326.391	0	0.929096	8.79235	0
2152	24038.5	43.2867	301.106	301.106	0	0.851196	9.15883	0
2153	24051	46.2206	280.407	280.407	0	0.788132	9.51147	0
2154	24064.2	48.9646	264.36	264.36	0	0.740246	9.85453	0
2155	24078.1	51.5459	250.582	250.582	0	0.698603	10.1889	0
2156	24092.8	53.9902	238.372	238.372	0	0.662057	10.516	0
2157	24108.1	56.3096	227.864	227.864	0	0.630156	10.8358	0
2158	24124.1	58.5248	218.623	218.623	0	0.602348	11.1497	0
2159	24140.6	60.6448	210.529	210.529	0	0.581229	10.1659	0
2160	24157.8	62.7421	204.219	204.219	0	0.583935	2.91104	0

2161	24175.5	64.8505	197.877	197.877	0	0.58727	-4.59263	0
2162	24193.8	66.9752	192.21	192.21	0	0.593164	-12.3456	0
2163	24212.7	69.1232	186.536	186.536	0	0.599892	-20.3492	-20
2164	24232.2	71.2963	180.769	180.769	0	0.60709	-28.6058	-20
2165	24252.3	73.4962	174.912	174.912	0	0.614763	-37.1181	-20
2166	24273	75.7246	168.98	168.98	0	0.622967	-45.8887	-20
2167	24294.4	77.9522	163.052	163.052	0	0.610608	-47.5616	-20
2168	24316.3	79.8661	31.0204	31.0204	0	0.262595	-47.2204	-20
2169	24338.5	80	-47.1963	-47.1963	0	0	-47.1963	-20
2170	24360.8	80	-47.1963	-47.1963	0	0	-47.1963	-20
2171	24383	80	-44.9639	-44.9639	0	0	-44.9789	-20
2172	24405.2	80	-43.3696	-43.3696	0	0	-43.3738	-20
2173	24427.4	80	-43.3326	-43.3326	0	0	-43.3319	-20
2174	24449.7	80	-45.0957	-45.0957	0	0	-45.0957	-20
2175	24471.9	80	-45.0957	-45.0957	0	0	-45.0957	-20
2176	24494.1	80	-46.4475	-46.4475	0	0	-46.4325	-20
2177	24516.3	80	-46.781	-46.781	0	0	-46.766	-20
2178	24538.5	79.1241	-301.561	-301.561	0	-0.700099	-47.1426	-20
2179	24560	75.9017	-366.032	-328.373	-37.6589	-0.921001	-47.9202	-20
2180	24580.7	72.5861	-366.594	-343.734	-22.8605	-0.920996	-48.4849	-20
2181	24600.4	69.2692	-367.143	-357.783	-9.36037	-0.923961	-48.0102	-20
2182	24619.1	65.9337	-367.68	-367.211	-0.469554	-0.934093	-45.0468	-20
2183	24637	62.5271	-368.199	-368.199	0	-0.956962	-37.6673	-20
2184	24653.9	59.0405	-368.714	-368.714	0	-0.978528	-30.7341	-20
2185	24669.8	55.4795	-369.221	-369.221	0	-0.996911	-24.8901	-20
2186	24684.7	51.855	-369.707	-369.707	0	-1.01444	-19.3235	0
2187	24698.6	48.1689	-370.182	-369.848	-0.33487	-1.03191	-13.7644	0
2188	24711.4	44.4222	-370.644	-369.845	-0.799302	-1.04809	-8.63793	0
2189	24723.3	40.6197	-371.088	-369.845	-1.2427	-1.06294	-3.9493	0
2190	24734	36.7662	-371.508	-369.846	-1.66162	-1.07645	0.296827	0
2191	24743.7	32.8663	-371.909	-369.849	-2.06062	-1.08861	4.09478	0
2192	24752.3	28.9252	-372.288	-369.851	-2.43654	-1.09932	7.44689	0
2193	24759.7	24.9652	-372.646	-369.852	-2.79484	-1.1	7.2877	0
2194	24766.1	21.0053	-372.976	-369.852	-3.12452	-1.09999	6.95828	0
2195	24771.4	17.0453	-373.277	-369.852	-3.42491	-1.09998	6.65551	0
2196	24775.6	13.0854	-373.552	-369.852	-3.69992	-1.09999	6.3794	0
2197	24778.7	9.12541	-373.788	-305.373	-68.4146	-1.09998	6.12996	0
2198	24780.6	5.16583	-281.85	-13.4526	-268.397	-1.09985	5.90719	0
2199	24781.4	2.377	-222.362	-0.583318	-221.779	-0.912924	5.76628	0
2200	24782	0	0	0	0	0	5.65662	0
2201	24782	0	0	0	0	0	5.65662	0
2202	24782	0	0	0	0	0	5.65662	0
2203	24782	0	0	0	0	0	5.65662	0
2204	24782	0	0	0	0	0	5.65662	0
2205	24782	0	0	0	0	0	5.65662	0
2206	24782	0	0	0	0	0	5.65662	0
2207	24782	0	0	0	0	0	5.65662	0
2208	24782	0	0	0	0	0	5.65662	0
2209	24782	0	0	0	0	0	5.65662	0
2210	24782	0	0	0	0	0	5.65662	0
2211	24782	0	0	0	0	0	5.65662	0
2212	24782	0	0	0	0	0	5.65662	0
2213	24782	0	0	0	0	0	5.65662	0
2214	24782	0	0	0	0	0	5.65662	0
2215	24782	0	0	0	0	0	5.65662	0

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010330

2216	24782	0	0	0	0	0	5.65662	0
2217	24782	1.67E-03	397.182	397.182	0	4.55E-04	5.65669	0
2218	24782.6	2.42071	397.182	397.182	0	0.657501	5.76839	0
2219	24783.4	5.29695	397.181	397.181	0	1.13331	5.91414	0
2220	24785.4	9.37455	397.181	397.181	0	1.13243	6.14487	0
2221	24788.6	13.4494	397.181	397.181	0	1.1316	6.40367	0
2222	24792.9	17.5213	397.181	397.181	0	1.13074	6.69049	0
2223	24798.3	21.5899	397.181	397.181	0	1.1298	7.00524	0
2224	24804.9	25.6552	397.182	397.182	0	1.1288	7.34782	0
2225	24812.6	29.7167	397.191	397.191	0	1.12774	7.71815	0
2226	24821.4	33.7517	391.913	391.913	0	1.11306	8.11383	0
2227	24831.3	37.6336	356.953	356.953	0	1.02182	8.52062	0
2228	24842.2	41.0635	318.701	318.701	0	0.903592	8.90136	0
2229	24854.1	44.1751	294.074	294.074	0	0.8335	8.15629	0
2230	24866.8	47.0758	275.406	275.406	0	0.786202	5.15026	0
2231	24880.2	49.8325	259.285	259.285	0	0.748467	1.93203	0
2232	24894.4	52.4685	245.973	245.973	0	0.719096	-1.48768	0
2233	24909.4	55.0059	233.33	233.33	0	0.69264	-5.09943	0
2234	24925	57.4618	223.057	223.057	0	0.673453	-8.89534	-12
2235	24941.3	59.8524	213.084	213.084	0	0.65596	-12.869	-12
2236	24958.2	62.178	205.916	205.916	0	0.640067	-14.7394	-12
2237	24975.8	64.463	199.043	199.043	0	0.628378	-17.5973	-12
2238	24994	66.7127	192.903	192.903	0	0.620108	-20.9428	-12
2239	25012.9	68.9112	187.096	187.096	0	0.602334	-20.6305	-12
2240	25032.3	71.0606	181.396	181.396	0	0.589495	-21.909	-12
2241	25052.3	73.1568	175.815	175.815	0	0.575793	-22.7727	-12
2242	25073	75.1973	170.383	170.383	0	0.558959	-22.4065	-12
2243	25094.1	77.1806	165.106	165.106	0	0.543611	-22.3968	-12
2244	25115.8	79.1098	159.972	159.972	0	0.529379	-22.6272	-12
2245	25138	80	-21.3967	-21.3967	0	0	-21.4039	-12
2246	25160.2	80	-20.7663	-20.7663	0	0	-20.7675	-12
2247	25182.4	80	-20.7659	-20.7659	0	0	-20.7648	-12
2248	25204.6	80	-21.4592	-21.4592	0	0	-21.4592	-12
2249	25226.9	80	-22.0582	-22.0582	0	0	-22.051	-12
2250	25249.1	80	-22.2183	-22.2183	0	0	-22.2111	-12
2251	25271.3	80	-22.3783	-22.3783	0	0	-22.3711	-12
2252	25293.5	80	-22.4675	-22.4675	0	0	-22.4675	-12
2253	25315.8	80	-22.4675	-22.4675	0	0	-22.4675	-12
2254	25338	80	-22.4675	-22.4675	0	0	-22.4675	-12
2255	25360.2	80	-22.4675	-22.4675	0	0	-22.4675	-12
2256	25382.4	80	-22.4675	-22.4675	0	0	-22.4675	-12
2257	25404.6	80	-22.4675	-22.4675	0	0	-22.4675	-12
2258	25426.8	79.1882	-268.143	-268.143	0	-0.674439	-22.6132	-12
2259	25448.4	75.8171	-366.049	-328.765	-37.2847	-0.993969	-22.735	-12
2260	25468.9	72.2088	-366.66	-345.482	-21.1782	-1.00973	-17.9006	-12
2261	25488.5	68.5451	-367.261	-359.829	-7.43137	-1.02473	-13.3207	-12
2262	25507	64.8289	-367.849	-367.849	0	-1.04E+00	-8.99751	-12
2263	25524.5	61.0629	-368.416	-368.416	0	-1.05236	-4.93378	0
2264	25540.9	57.2501	-368.965	-368.965	0	-1.06496	-1.13127	0
2265	25556.3	53.3934	-369.498	-369.498	0	-1.07675	2.40759	0
2266	25570.6	49.4957	-370.013	-369.849	-0.164594	-1.08772	5.68117	0
2267	25583.8	45.5601	-370.507	-369.845	-0.661305	-1.09785	8.68777	0
2268	25595.9	41.6007	-370.97	-369.845	-1.12439	-1.09999	8.9628	0
2269	25606.9	37.6407	-371.41	-369.846	-1.56352	-1.09998	8.52139	0
2270	25616.8	33.6808	-371.825	-369.848	-1.97678	-1.09999	8.10664	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010331

2271	25625.6	29.7208	-372.215	-369.851	-2.36361	-1.1	7.71854	0
2272	25633.3	25.7609	-372.578	-369.851	-2.72645	-1.09999	7.3571	0
2273	25639.9	21.8009	-372.91	-369.852	-3.0584	-1.09998	7.02233	0
2274	25645.4	17.841	-373.217	-369.852	-3.36496	-1.09998	6.7142	0
2275	25649.8	13.881	-373.498	-369.852	-3.64635	-1.09999	6.43274	0
2276	25653.1	9.92104	-373.745	-364.031	-9.71456	-1.09999	6.17794	0
2277	25655.3	5.96133	-327.908	-72.1013	-255.807	-1.09989	5.9498	0
2278	25656.3	2.85493	-222.362	-0.700601	-221.662	-0.963629	5.78949	0
2279	25656.9	0.476278	-222.362	-0.116879	-222.246	-0.711267	5.67782	0
2280	25657	0	0	0	0	0	5.65662	0
2281	25657	0	0	0	0	0	5.65662	0
2282	25657	0	0	0	0	0	5.65662	0
2283	25657	0	0	0	0	0	5.65662	0
2284	25657	0	0	0	0	0	5.65662	0
2285	25657	0	0	0	0	0	5.65662	0
2286	25657	0	0	0	0	0	5.65662	0
2287	25657	0	0	0	0	0	5.65662	0
2288	25657	0	0	0	0	0	5.65662	0
2289	25657	0	0	0	0	0	5.65662	0
2290	25657	0	0	0	0	0	5.65662	0
2291	25657	0	0	0	0	0	5.65662	0
2292	25657	0	0	0	0	0	5.65662	0
2293	25657	0	0	0	0	0	5.65662	0
2294	25657	0	0	0	0	0	5.65662	0
2295	25657	0	0	0	0	0	5.65662	0
2296	25657	0	0	0	0	0	5.65662	0
2297	25657.5	1.93468	397.182	397.182	0	0.525486	5.74515	0
2298	25658.1	4.47744	397.182	397.182	0	1.13348	5.87118	0
2299	25659.9	8.55553	397.181	397.181	0	1.1326	6.09625	0
2300	25662.8	12.6309	397.181	397.181	0	1.13177	6.34942	0
2301	25666.9	16.7034	397.181	397.181	0	1.13092	6.63062	0
2302	25672.1	20.7727	397.181	397.181	0	1.13	6.93976	0
2303	25678.5	24.8387	397.181	397.181	0	1.129	7.27676	0
2304	25685.9	28.901	397.189	397.189	0	1.12796	7.64152	0
2305	25694.5	32.946	393.047	393.047	0	1.11663	8.03261	0
2306	25704.2	36.8885	366.347	366.347	0	1.04988	8.44055	0
2307	25715	40.4067	323.899	323.899	0	0.919175	8.8269	0
2308	25726.6	43.5688	298.873	298.873	0	0.844552	9.1921	0
2309	25739.1	46.5075	278.73	278.73	0	0.797832	4.49198	0
2310	25752.5	49.3171	262.299	262.299	0	0.765894	-1.03355	0
2311	25766.5	52.0237	248.196	248.196	0	0.741296	-6.89722	0
2312	25781.4	54.6528	235.062	235.062	0	0.720987	-13.0862	0
2313	25796.9	57.2202	224.065	224.065	0	0.707439	-19.5905	0
2314	25813.1	59.7458	213.529	213.529	0	0.696543	-26.402	-20
2315	25830.1	62.246	205.712	205.712	0	0.693934	-33.5144	-20
2316	25847.7	64.7433	198.2	198.2	0	0.693585	-40.9232	-20
2317	25866.1	67.2445	191.499	191.499	0	0.696306	-48.6271	-20
2318	25885.1	69.7203	184.959	184.959	0	0.678265	-48.958	-20
2319	25904.8	72.1247	178.563	178.563	0	0.658548	-48.5621	-20
2320	25925.1	74.4242	172.441	172.441	0	0.617578	-40.5634	-20
2321	25946.1	76.5637	166.747	166.747	0	0.573123	-30.9325	-20
2322	25967.7	78.5443	161.477	161.477	0	0.529231	-21.0694	-20
2323	25989.7	79.9884	7.89184	7.89184	0	8.56E-02	-11.0715	0
2324	26011.9	80	-0.814807	-0.814807	0	0	-1.25639	0
2325	26034	78.542	-302.899	-302.899	0	-0.865373	8.24577	0

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010382

2326	26055.3	74.7218	-366.232	-333.837	-32.3948	-1.08339	7.96786	0
2327	26075.6	70.8561	-366.881	-351.75	-15.1314	-1.0653	1.06952	0
2328	26094.7	67.0462	-367.497	-364.066	-3.4306	-1.05613	-2.71122	0
2329	26112.8	63.2441	-368.085	-368.085	0	-1.05613	-3.30001	-14
2330	26129.8	59.442	-368.651	-368.651	0	-1.05614	-3.86423	-14
2331	26145.8	55.6399	-369.193	-369.193	0	-1.05614	-4.40387	-14
2332	26160.8	51.8378	-369.705	-369.705	0	-1.05613	-4.91894	0
2333	26174.6	48.0357	-370.195	-369.847	-0.347202	-1.05613	-5.40944	0
2334	26187.4	44.2177	-370.666	-369.845	-0.821082	-1.06567	-2.58796	0
2335	26199.2	40.3605	-371.116	-369.845	-1.27064	-1.07619	0.596024	0
2336	26209.9	36.4671	-371.539	-369.846	-1.69229	-1.08573	3.46864	0
2337	26219.4	32.5412	-371.94	-369.849	-2.09135	-1.0943	6.02773	0
2338	26227.9	28.5875	-372.319	-369.851	-2.4675	-1.09999	7.61238	0
2339	26235.3	24.6275	-372.674	-369.852	-2.82292	-1.09999	7.25857	0
2340	26241.6	20.6676	-373.003	-369.852	-3.15147	-1.09999	6.93142	0
2341	26246.8	16.7076	-373.302	-369.852	-3.45039	-1.09998	6.63093	0
2342	26250.9	12.7477	-373.575	-369.852	-3.72268	-1.09998	6.35709	0
2343	26253.9	8.78773	-373.806	-280.477	-93.3287	-1.09997	6.10992	0
2344	26255.7	4.82819	-262.301	-1.18484	-261.116	-1.09983	5.88942	0
2345	26256.5	2.17416	-222.362	-0.53354	-221.829	-0.891403	5.75655	0
2346	26257	0	0	0	0	0	5.65662	0
2347	26257	0	0	0	0	0	5.65662	0
2348	26257	0	0	0	0	0	5.65662	0
2349	26257	0	0	0	0	0	5.65662	0
2350	26257	0	0	0	0	0	5.65662	0
2351	26257	0	0	0	0	0	5.65662	0
2352	26257	0	0	0	0	0	5.65662	0
2353	26257	0	0	0	0	0	5.65662	0
2354	26257	0	0	0	0	0	5.65662	0
2355	26257	0	0	0	0	0	5.65662	0
2356	26257	0	0	0	0	0	5.65662	0
2357	26257	0	0	0	0	0	5.65662	0
2358	26257	0	0	0	0	0	5.65662	0
2359	26257	0	0	0	0	0	5.65662	0
2360	26257	0	0	0	0	0	5.65662	0
2361	26257	0	0	0	0	0	5.65662	0
2362	26257	0	0	0	0	0	5.65662	0
2363	26257	0.207963	397.182	397.182	0	5.65E-02	5.66583	0
2364	26257.6	2.627	397.182	397.182	0	0.713533	5.77837	0
2365	26258.6	5.64477	397.181	397.181	0	1.13323	5.93271	0
2366	26260.6	9.72215	397.181	397.181	0	1.13236	6.16584	0
2367	26263.9	13.7967	397.181	397.181	0	1.13153	6.42704	0
2368	26268.3	17.8683	397.181	397.181	0	1.13066	6.71624	0
2369	26273.8	21.9367	397.181	397.181	0	1.12972	7.03337	0
2370	26280.5	26.0017	397.183	397.183	0	1.12871	7.37832	0
2371	26288.3	30.0629	397.035	397.035	0	1.12765	7.75101	0
2372	26297.2	34.0929	391.433	391.433	0	1.11155	8.14856	0
2373	26307.2	37.944	353.04	353.04	0	1.01014	8.55425	0
2374	26318.2	41.339	316.521	316.521	0	0.897096	8.93281	0
2375	26330.1	44.4259	292.09	292.09	0	0.824366	9.29401	0
2376	26342.9	47.2431	274.427	274.427	0	0.739976	20.0572	0
2377	26356.4	49.8143	259.391	259.391	0	0.692291	21.354	0
2378	26370.5	52.2279	247.175	247.175	0	0.65234	22.6907	0
2379	26385.4	54.5046	235.802	235.802	0	0.6152	24.0656	0
2380	26400.8	56.5745	144.817	144.817	0	3.96E-01	25.4643	0

2381	26416.6	56.921	21.0047	21.0047	0	0	21.0047	0
2382	26432.4	56.921	21.0047	21.0047	0	0	21.0047	0
2383	26448.2	56.921	21.0047	21.0047	0	0	21.0047	0
2384	26464	56.921	20.988	20.988	0	0	21.0047	0
2385	26479.8	56.921	18.8933	18.8933	0	0	19.0258	0
2386	26495.6	56.921	16.7987	16.7987	0	0	16.9312	0
2387	26511.5	56.921	14.7041	14.7041	0	0	14.8365	0
2388	26527.3	56.921	12.6094	12.6094	0	0	12.7419	0
2389	26543.1	56.921	9.2936	9.2936	0	0	9.46752	-6
2390	26558.9	56.921	6.67986	6.67986	0	0	6.8375	-6
2391	26574.7	56.921	9.59538	9.59538	0	0	9.72785	-6
2392	26590.5	56.921	7.50075	7.50075	0	0	7.63323	-6
2393	26606.3	56.921	5.78042	5.78042	0	0	5.72791	-6
2394	26622.1	56.921	6.91919	6.91919	0	0	6.84717	-6
2395	26638	56.921	2.45811	2.45811	0	0	2.45811	-6
2396	26653.8	56.921	2.45811	2.45811	0	0	2.45811	-6
2397	26669.6	56.921	2.45811	2.45811	0	0	2.45811	-6
2398	26685.4	56.921	2.45811	2.45811	0	0	2.45811	-6
2399	26701.2	56.921	2.45811	2.45811	0	0	2.45811	-6
2400	26717	56.921	2.86994	2.86994	0	0	2.73746	-6
2401	26732.8	56.921	4.96457	4.96457	0	0	4.83209	-6
2402	26748.6	56.921	7.05919	7.05919	0	0	6.92672	-6
2403	26764.4	56.921	3.74186	3.74186	0	0	3.68141	-6
2404	26780.3	56.921	4.69772	4.69772	0	0	4.63726	-6
2405	26796.1	56.921	5.65357	5.65357	0	0	5.59312	0
2406	26811.9	56.921	6.60943	6.60943	0	0	6.54897	0
2407	26827.7	56.921	7.56528	7.56528	0	0	7.50483	0
2408	26843.6	58.1002	220.394	220.394	0	0.612024	9.5923	0
2409	26859.6	55.7527	-369.177	-369.177	0	-1.09999	10.7582	0
2410	26874.5	51.7928	-369.711	-369.711	0	-1.09999	10.2215	0
2411	26888.4	47.8328	-370.22	-369.847	-0.372754	-1.09999	9.71148	0
2412	26901.1	43.8728	-370.704	-369.845	-0.859203	-1.09999	9.22811	0
2413	26912.7	39.9129	-371.163	-369.846	-1.3177	-1.1	8.7714	0
2414	26923.3	35.9529	-371.593	-369.846	-1.74625	-1.09999	8.34135	0
2415	26932.7	31.993	-371.994	-369.849	-2.14421	-1.09998	7.93796	0
2416	26941	28.033	-372.37	-369.851	-2.51835	-1.09998	7.56123	0
2417	26948.3	24.073	-372.721	-369.852	-2.86906	-1.09999	7.21115	0
2418	26954.4	20.1131	-373.046	-369.852	-3.19432	-1.09999	6.88774	0
2419	26959.4	16.1531	-373.343	-369.852	-3.49125	-1.09999	6.59098	0
2420	26963.4	12.1932	-373.612	-369.852	-3.76026	-1.09998	6.32088	0
2421	26966.2	8.23325	-373.827	-239.599	-134.229	-1.09996	6.07744	0
2422	26967.9	4.27379	-230.202	-1.04879	-229.153	-1.09981	5.86068	0
2423	26968.6	1.84109	-222.362	-0.451804	-221.911	-0.856066	5.74072	0
2424	26969	0	0	0	0	0	5.65662	0
2425	26969	0	0	0	0	0	5.65662	0
2426	26969	0	0	0	0	0	5.65662	0
2427	26969	0	0	0	0	0	5.65662	0
2428	26969	0	0	0	0	0	5.65662	0
2429	26969	0	0	0	0	0	5.65662	0
2430	26969	0	0	0	0	0	5.65662	0
2431	26969	0	0	0	0	0	5.65662	0
2432	26969	0	0	0	0	0	5.65662	0
2433	26969	0	0	0	0	0	5.65662	0
2434	26969	0	0	0	0	0	5.65662	0
2435	26969	0	0	0	0	0	5.65662	0

2436	26969	0	0	0	0	0	5.65662	0
2437	26969	0	0	0	0	0	5.65662	0
2438	26969	0	0	0	0	0	5.65662	0
2439	26969	0	0	0	0	0	5.65662	0
2440	26969	0	0	0	0	0	5.65662	0
2441	26969.1	0.546691	397.182	397.182	0	0.148489	5.68099	0
2442	26969.7	2.96573	397.182	397.182	0	0.805536	5.79493	0
2443	26970.8	6.21589	397.181	397.181	0	1.13311	5.96367	0
2444	26973	10.2929	397.181	397.181	0	1.13224	6.20073	0
2445	26976.4	14.367	397.181	397.181	0	1.13141	6.46585	0
2446	26981	18.4394	397.181	397.181	0	1.13178	6.32935	0
2447	26986.7	22.5216	397.181	397.181	0	1.13555	5.01784	0
2448	26993.5	26.6189	397.184	397.184	0	1.1402	3.41099	0
2449	27001.5	30.7292	396.166	396.166	0	1.13075	1.50659	0
2450	27010.6	34.722	390.547	390.547	0	1.10353	10.0173	0
2451	27020.7	38.5017	346.008	346.008	0	0.990278	8.23047	0
2452	27031.9	41.8541	312.444	312.444	0	0.893077	6.20615	0
2453	27044	44.9412	288.011	288.011	0	0.827911	3.97706	0
2454	27056.9	47.8324	270.981	270.981	0	0.783711	1.56137	-13
2455	27070.5	50.5775	255.42	255.42	0	0.745311	-1.0274	-13
2456	27085	53.256	242.039	242.039	0	0.731693	-9.77047	-13
2457	27100.1	55.84	210.407	210.407	0	0.701514	-13.7667	-13
2458	27115.8	56.921	-18.4165	-18.4165	0	0	-18.1294	-13
2459	27131.7	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2460	27147.5	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2461	27163.3	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2462	27179.1	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2463	27194.9	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2464	27210.7	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2465	27226.5	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2466	27242.3	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2467	27258.1	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2468	27274	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2469	27289.8	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2470	27305.6	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2471	27321.4	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2472	27337.2	56.921	-19.1796	-19.1796	0	0	-19.1796	-13
2473	27353	56.921	-24.2436	-24.2436	0	0	-19.1796	-13
2474	27368.8	56.921	-25.3824	-25.3824	0	0	-25.3104	-13
2475	27384.6	56.921	-23.8654	-23.8654	0	0	-24.0362	-13
2476	27400.4	56.921	-21.164	-21.164	0	0	-21.3349	-13
2477	27416.3	56.921	-18.4626	-18.4626	0	0	-18.6335	-13
2478	27432.1	57.5059	178.446	178.446	0	0.509927	-15.2382	-13
2479	27448.4	59.8474	213.105	213.105	0	0.650433	-10.9439	-2
2480	27465.3	62.123	206.082	206.082	0	0.616627	-6.49262	-2
2481	27482.9	64.2815	199.588	199.588	0	0.584436	-1.90095	-2
2482	27501	66.327	193.922	193.922	0	0.554152	2.82269	-2
2483	27519.7	68.2691	188.792	188.792	0	0.528743	6.44758	-2
2484	27539	70.1436	183.838	183.838	0	0.513483	6.7508	-2
2485	27558.7	71.9637	178.992	178.992	0	0.498542	7.05096	-2
2486	27578.9	73.731	174.287	174.287	0	0.484023	7.34777	-2
2487	27599.7	75.4467	169.719	169.719	0	0.469915	7.64102	-2
2488	27620.8	77.1125	165.287	165.287	0	0.456211	7.93051	-2
2489	27642.5	78.7297	160.984	160.984	0	0.442896	8.21607	-2
2490	27664.6	80	8.4435	8.4435	0	0	8.4435	-2

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2491	27686.8	80	8.4435	8.4435	0	0	8.4435	-2
2492	27709	80	8.4435	8.4435	0	0	8.4435	-2
2493	27731.2	79.9294	-131.55	-131.55	0	-0.35454	8.43078	-2
2494	27753.1	77.1205	-365.817	-322.729	-43.0881	-1.08208	7.93191	-2
2495	27774	73.2249	-366.487	-340.774	-25.7135	-1.08209	7.26224	-2
2496	27793.8	69.3271	-367.135	-357.619	-9.51613	-1.08546	7.78054	-2
2497	27812.5	65.4	-367.76	-367.76	0	-1.09563	10.6695	-2
2498	27830.1	61.5292	-290.067	-290.067	0	-0.926059	13.3878	-2
2499	27846.9	59.7227	-10.1895	-10.1895	0	-0.125384	16.27	-2
2500	27863.5	59.6992	19.5665	19.5665	0	0	19.3788	6.5
2501	27880.1	59.6992	22.6787	22.6787	0	0	22.4911	6.5
2502	27896.7	59.6992	25.791	25.791	0	0	25.6033	6.5
2503	27913.2	59.6992	28.9032	28.9032	0	0	28.7155	6.5
2504	27929.8	59.6992	41.3257	41.3257	0	0	41.2602	6.5
2505	27946.4	59.6992	42.4115	42.4115	0	0	42.346	6.5
2506	27963	59.6992	43.4972	43.4972	0	0	43.4318	6.5
2507	27979.6	59.6992	44.583	44.583	0	0	44.5175	6.5
2508	27996.1	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2509	28012.7	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2510	28029.3	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2511	28045.9	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2512	28062.5	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2513	28079.1	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2514	28095.6	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2515	28112.2	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2516	28128.8	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2517	28145.4	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2518	28162	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2519	28178.6	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2520	28195.1	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2521	28211.7	59.6992	40.5782	40.5782	0	0	40.5782	6.5
2522	28228.3	59.6992	40.3898	40.3898	0	0	40.5333	6.5
2523	28244.9	59.6992	38.0099	38.0099	0	0	38.1534	6.5
2524	28261.5	59.6992	35.6299	35.6299	0	0	35.7734	6.5
2525	28278	58.8531	-233.349	-233.349	0	-0.722445	33.2771	6.5
2526	28293.9	55.0645	-369.272	-369.272	0	-1.15734	30.4675	6.5
2527	28308.6	50.9369	-369.824	-369.824	0	-1.13667	22.7794	0
2528	28322.2	46.8609	-370.341	-369.847	-0.49445	-1.12845	19.4222	0
2529	28334.6	42.8134	-370.827	-369.845	-0.981911	-1.12091	16.3324	0
2530	28346	38.7917	-371.284	-369.846	-1.43813	-1.11406	13.5073	0
2531	28356.2	34.7935	-371.713	-369.847	-1.8657	-1.10788	10.9452	0
2532	28365.3	30.8164	-372.111	-369.851	-2.26035	-1.10236	8.64378	0
2533	28373.3	26.8545	-372.478	-369.851	-2.62651	-1.09998	7.45425	0
2534	28380.2	22.8945	-372.819	-369.852	-2.96721	-1.09998	7.11211	0
2535	28386	18.9345	-373.135	-369.852	-3.28273	-1.09999	6.79663	0
2536	28390.7	14.9746	-373.425	-369.852	-3.57305	-1.09999	6.5078	0
2537	28394.3	11.0146	-373.686	-369.852	-3.83423	-1.09999	6.24564	0
2538	28396.8	7.05476	-373.864	-152.714	-221.15	-1.09994	6.01014	0
2539	28398.2	3.51181	-222.362	-0.861801	-221.501	-1.03332	5.82202	0
2540	28398.7	1.13316	-222.362	-0.278079	-222.084	-0.780959	5.7077	0
2541	28399	0	0	0	0	0	5.65662	0
2542	28399	0	0	0	0	0	5.65662	0
2543	28399	0	0	0	0	0	5.65662	0
2544	28399	0	0	0	0	0	5.65662	0
2545	28399	0	0	0	0	0	5.65662	0

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2546	28399	0	0	0	0	0	5.65662	0
2547	28399	0	0	0	0	0	5.65662	0
2548	28399	0	0	0	0	0	5.65662	0
2549	28399	0	0	0	0	0	5.65662	0
2550	28399	0	0	0	0	0	5.65662	0
2551	28399	0	0	0	0	0	5.65662	0
2552	28399	0	0	0	0	0	5.65662	0
2553	28399	0	0	0	0	0	5.65662	0
2554	28399	0	0	0	0	0	5.65662	0
2555	28399	0	0	0	0	0	5.65662	0
2556	28399	0	0	0	0	0	5.65662	0
2557	28399	0	0	0	0	0	5.65662	0
2558	28399.3	1.26664	397.182	397.182	0	0.344037	5.71386	0
2559	28399.9	3.68568	397.182	397.182	0	1.00108	5.83076	0
2560	28401.3	7.42957	397.181	397.181	0	1.13285	6.03128	0
2561	28403.9	11.5057	397.181	397.181	0	1.132	6.2767	0
2562	28407.7	15.579	397.181	397.181	0	1.13116	6.55017	0
2563	28412.6	19.6492	397.181	397.181	0	1.13026	6.8516	0
2564	28418.6	23.7162	397.181	397.181	0	1.12929	7.18091	0
2565	28425.7	27.7795	397.187	397.187	0	1.12826	7.53802	0
2566	28434	31.8345	394.611	394.611	0	1.12155	7.92237	0
2567	28443.4	35.8307	379.684	379.684	0	1.08976	8.3285	0
2568	28453.9	39.4815	333.655	333.655	0	0.952317	8.72327	0
2569	28465.3	42.722	305.575	305.575	0	0.864501	9.09263	0
2570	28477.6	45.6982	283.463	283.463	0	0.797251	9.44761	0
2571	28490.7	48.4772	267.211	267.211	0	0.751264	8.92897	0
2572	28504.5	51.1022	252.799	252.799	0	0.711741	7.89248	0
2573	28519.1	53.6004	240.319	240.319	0	0.678588	6.77992	0
2574	28534.3	55.9844	229.22	229.22	0	0.649324	5.59468	0
2575	28550.2	58.2754	219.663	219.663	0	0.625141	4.34132	0
2576	28566.7	60.4823	211.017	211.017	0	0.603373	3.02245	-4.5
2577	28583.8	62.6262	204.568	204.568	0	0.588629	1.64241	-4.5
2578	28601.4	64.7182	198.275	198.275	0	0.574513	0.203728	-4.5
2579	28619.7	66.7634	192.769	192.769	0	0.562736	-1.29197	-4.5
2580	28638.5	68.7606	187.494	187.494	0	0.547151	-1.20124	-4.5
2581	28657.9	70.7004	182.356	182.356	0	0.531321	-0.885731	-4.5
2582	28677.8	72.5838	177.341	177.341	0	0.515856	-0.573263	-4.5
2583	28698.2	74.4124	172.473	172.473	0	0.500826	-0.26412	-4.5
2584	28719.1	76.1877	167.748	167.748	0	0.486225	4.15E-02	-4.5
2585	28740.5	77.9113	163.161	163.161	0	0.47204	0.343252	-4.5
2586	28762.4	79.5834	141.223	141.223	0	0.443221	0.640858	-4.5
2587	28784.6	80	0.715751	0.715751	0	0	0.715751	-4.5
2588	28806.8	80	0.715751	0.715751	0	0	0.715751	-4.5
2589	28829.1	80	0.715751	0.715751	0	0	0.715751	-4.5
2590	28851.3	80	2.016	2.016	0	0	2.01376	-4.5
2591	28873.5	80	2.04391	2.04391	0	0	2.04358	-4.5
2592	28895.7	80	2.02948	2.02948	0	0	2.03105	-4.5
2593	28918	80	1.10672	1.10672	0	0	1.11272	-4.5
2594	28940.2	80	0.973347	0.973347	0	0	0.979349	-4.5
2595	28962.4	80	0.839973	0.839973	0	0	0.845974	-4.5
2596	28984.6	80	1.07592	1.07592	0	0	0.976561	-4.5
2597	29006.8	80	3.28385	3.28385	0	0	3.18449	-4.5
2598	29029.1	80	5.49178	5.49178	0	0	5.39242	-4.5
2599	29051.3	80	7.69971	7.69971	0	0	7.60035	-4.5
2600	29073.5	80	9.90764	9.90764	0	0	9.80828	0

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2601	29095.7	80	12.1156	12.1156	0	0	12.0162	0
2602	29118	80	14.3235	14.3235	0	0	14.2241	0
2603	29140.2	80	14.6257	14.6257	0	0	14.6257	0
2604	29162.4	80	17.2564	17.2564	0	0	17.2384	0
2605	29184.6	80	17.6565	17.6565	0	0	17.6385	0
2606	29206.8	80	19.3322	19.3322	0	0	1.93E+01	0
2607	29228.9	78.2415	-3.19E+02	-3.18E+02	-1.41199	-0.935276	1.68E+01	0
2608	29250.1	74.3088	-3.66E+02	-3.36E+02	-30.554	-1.10729	1.61E+01	0
2609	29270.2	70.3306	-366.973	-354.185	-12.7878	-1.10311	14.0386	0
2610	29289.2	66.3613	-367.606	-366.002	-1.60379	-1.10211	13.0605	0
2611	29307.1	62.3955	-368.213	-368.213	0	-1.10117	12.1295	0
2612	29323.8	58.4329	-368.795	-368.795	0	-1.1003	11.2456	0
2613	29339.5	54.4728	-369.352	-369.352	0	-1.09999	10.5818	0
2614	29354.1	50.5128	-369.882	-369.849	-3.30E-02	-1.09999	10.0537	0
2615	29367.6	46.5529	-370.381	-369.846	-0.534344	-1.09999	9.55233	0
2616	29380	42.5929	-370.854	-369.845	-1.00857	-1.09998	9.07758	0
2617	29391.3	38.6329	-371.302	-369.846	-1.45615	-1.09999	8.62949	0
2618	29401.4	34.673	-371.725	-369.847	-1.87842	-1.09999	8.20805	0
2619	29410.5	30.713	-372.122	-369.851	-2.27126	-1.09999	7.81328	0
2620	29418.5	26.7531	-372.487	-369.851	-2.63582	-1.09998	7.44516	0
2621	29425.4	22.7931	-372.827	-369.852	-2.97566	-1.09998	7.1037	0
2622	29431.2	18.8332	-373.142	-369.852	-3.29035	-1.09999	6.7889	0
2623	29435.8	14.8732	-373.432	-369.852	-3.57983	-1.09999	6.50076	0
2624	29439.4	10.9132	-373.692	-369.852	-3.83972	-1.09999	6.23928	0
2625	29441.9	6.95339	-373.867	-145.241	-228.627	-1.09994	6.00446	0
2626	29443.2	3.45092	-222.362	-0.846857	-221.516	-1.02686	5.81897	0
2627	29443.7	1.07227	-222.362	-0.263135	-222.099	-0.774498	5.7049	0
2628	29444	0	0	0	0	0	5.65662	0
2629	29444	0	0	0	0	0	5.65662	0
2630	29444	0	0	0	0	0	5.65662	0
2631	29444	0	0	0	0	0	5.65662	0
2632	29444	0	0	0	0	0	5.65662	0
2633	29444	0	0	0	0	0	5.65662	0
2634	29444	0	0	0	0	0	5.65662	0
2635	29444	0	0	0	0	0	5.65662	0
2636	29444	0	0	0	0	0	5.65662	0
2637	29444	0	0	0	0	0	5.65662	0
2638	29444	0	0	0	0	0	5.65662	0
2639	29444	0	0	0	0	0	5.65662	0
2640	29444	0	0	0	0	0	5.65662	0
2641	29444	0	0	0	0	0	5.65662	0
2642	29444	0	0	0	0	0	5.65662	0
2643	29444	0	0	0	0	0	5.65662	0
2644	29444	0	0	0	0	0	5.65662	0
2645	29444.3	1.32856	397.182	397.182	0	0.360858	5.71673	0
2646	29444.9	3.74761	397.182	397.182	0	1.0179	5.83388	0
2647	29446.4	7.53395	397.181	397.181	0	1.13282	6.03722	0
2648	29449	11.61	397.181	397.181	0	1.13198	6.28336	0
2649	29452.8	15.6833	397.181	397.181	0	1.13114	6.55753	0
2650	29457.7	19.7534	397.181	397.181	0	1.13023	6.85968	0
2651	29463.8	23.8202	397.181	397.181	0	1.12926	7.18971	0
2652	29470.9	27.8835	397.187	397.187	0	1.12823	7.54753	0
2653	29479.3	31.9376	394.465	394.465	0	1.12109	7.93252	0
2654	29488.7	35.9304	378.426	378.426	0	1.08599	8.33899	0
2655	29499.2	39.5686	332.557	332.557	0	0.949046	8.73296	0

2656	29510.6	42.8013	304.947	304.947	0	0.862632	9.1019	0
2657	29522.9	45.7715	283.034	283.034	0	0.795971	9.45654	0
2658	29536	48.5428	266.827	266.827	0	0.747606	9.80096	0
2659	29549.9	51.1479	252.57	252.57	0	0.704554	10.1366	0
2660	29564.4	53.613	240.256	240.256	0	0.667697	10.4649	0
2661	29579.7	55.9507	229.361	229.361	0	0.63466	10.7857	0
2662	29595.5	58.1816	220.054	220.054	0	0.606656	11.1006	0
2663	29612	60.3144	211.522	211.522	0	0.580511	11.4095	0
2664	29629	62.3682	205.344	205.344	0	0.561669	11.7142	0
2665	29646.6	64.3554	199.366	199.366	0	0.543423	12.0159	0
2666	29664.8	66.2795	194.047	194.047	0	0.526992	12.3145	0
2667	29683.4	68.1478	189.113	189.113	0	0.511803	12.6104	0
2668	29702.6	69.9622	184.32	184.32	0	0.497037	12.9034	0
2669	29722.3	71.7348	179.601	179.601	0	0.490882	10.3033	0
2670	29742.5	73.4989	174.905	174.905	0	0.489303	6.1452	0
2671	29763.1	75.2579	170.222	170.222	0	0.488066	1.88348	0
2672	29784.3	77.0132	165.551	165.551	0	0.487165	-2.48143	-10
2673	29805.9	78.7658	160.888	160.888	0	0.486583	-6.94911	-10
2674	29828	80	-11.8274	-11.8274	0	0	-11.6066	-10
2675	29850.2	80	-16.2853	-16.2853	0	0	-16.2853	-10
2676	29872.5	80	-16.2853	-16.2853	0	0	-16.2853	-10
2677	29894.7	80	-16.2853	-16.2853	0	0	-16.2853	-10
2678	29916.9	80	-16.2853	-16.2853	0	0	-16.2853	-10
2679	29939.1	80	-11.2988	-11.2988	0	0	-11.5637	-10
2680	29961.3	80	-5.41097	-5.41097	0	0	-5.67593	-10
2681	29983.6	80	0.476839	0.476839	0	0	0.211887	-10
2682	30005.8	80	6.36465	6.36465	0	0	6.0997	2
2683	30028	80	12.2525	12.2525	0	0	11.9875	2
2684	30050.2	80	18.1403	18.1403	0	0	17.8753	2
2685	30072.5	80	20.8079	20.8079	0	0	20.8079	2
2686	30094.7	80	20.8079	20.8079	0	0	20.8079	2
2687	30116.9	80	20.8079	20.8079	0	0	20.8079	2
2688	30139.1	80	20.8079	20.8079	0	0	20.8079	2
2689	30161.3	80	20.8079	20.8079	0	0	20.8079	2
2690	30183.6	80	20.8079	20.8079	0	0	20.8079	2
2691	30205.8	80	20.8079	20.8079	0	0	20.8079	2
2692	30228	80	20.8079	20.8079	0	0	20.8079	2
2693	30250.2	80	20.8079	20.8079	0	0	20.8079	2
2694	30272.5	80	20.8079	20.8079	0	0	20.8079	2
2695	30294.7	80	20.8079	20.8079	0	0	20.8079	2
2696	30316.9	80	20.8079	20.8079	0	0	20.8079	2
2697	30339.1	80	20.8079	20.8079	0	0	20.8079	2
2698	30361.3	80	20.8079	20.8079	0	0	20.8079	2
2699	30383.6	80	20.8079	20.8079	0	0	20.8079	2
2700	30405.8	80	20.8079	20.8079	0	0	20.8079	2
2701	30428	80	20.8079	20.8079	0	0	20.8079	2
2702	30450.2	80	20.8079	20.8079	0	0	20.8079	2
2703	30472.5	80	20.8079	20.8079	0	0	20.8079	2
2704	30494.7	80	20.8079	20.8079	0	0	20.8079	2
2705	30516.9	80	20.8079	20.8079	0	0	20.8079	2
2706	30539.1	80	20.8079	20.8079	0	0	20.8079	2
2707	30561.3	80	20.8079	20.8079	0	0	20.8079	2
2708	30583.6	80	20.8079	20.8079	0	0	20.8079	2
2709	30605.8	80	20.8079	20.8079	0	0	20.8079	2
2710	30628	80	20.8079	20.8079	0	0	20.8079	2

2711	30650.2	80	21.341	21.341	0	0	21.3409	2
2712	30672.5	80	20.8079	20.8079	0	0	20.8079	2
2713	30694.7	80	20.8079	20.8079	0	0	20.8079	2
2714	30716.9	80	20.8724	20.8724	0	0	20.8754	2
2715	30739.1	80	20.8079	20.8079	0	0	20.8087	2
2716	30761.3	80	20.8079	20.8079	0	0	20.8079	2
2717	30783.6	80	20.8079	20.8079	0	0	20.8079	2
2718	30805.8	80	20.8079	20.8079	0	0	20.8079	2
2719	30828	80	20.8079	20.8079	0	0	20.8079	2
2720	30850.2	80	20.8079	20.8079	0	0	20.8079	2
2721	30872.5	80	20.8079	20.8079	0	0	20.8079	2
2722	30894.7	80	22.1576	22.1576	0	0	22.0913	2
2723	30916.9	80	23.6295	23.6295	0	0	23.5633	2
2724	30939.1	80	25.1015	25.1015	0	0	25.0352	2
2725	30961.3	80	26.5734	26.5734	0	0	26.5072	5
2726	30983.6	80	28.0454	28.0454	0	0	27.9792	5
2727	31005.8	80	29.5173	29.5173	0	0	29.4511	5
2728	31028	80	30.0812	30.0812	0	0	30.0812	5
2729	31050.2	80	30.0812	30.0812	0	0	30.0812	5
2730	31072.5	80	30.0812	30.0812	0	0	30.0812	5
2731	31094.7	80	30.0812	30.0812	0	0	30.0812	5
2732	31116.9	80	30.0812	30.0812	0	0	30.0812	5
2733	31139.1	80	30.0812	30.0812	0	0	30.0812	5
2734	31161.3	80	30.0812	30.0812	0	0	30.0812	5
2735	31183.4	78.5552	-276.28	-276.28	0	-0.844181	28.0951	5
2736	31204.7	74.6374	-366.25	-334.229	-32.0209	-1.13293	25.0613	5
2737	31224.9	70.5712	-366.932	-353.07	-13.8618	-1.12649	22.1536	5
2738	31244	66.5275	-367.579	-365.532	-2.04657	-1.12039	19.402	0
2739	31261.9	62.505	-368.196	-368.196	0	-1.11466	16.805	0
2740	31278.7	58.5026	-368.785	-368.785	0	-1.10929	14.3614	0
2741	31294.4	54.5188	-369.346	-369.346	0	-1.10428	12.0701	0
2742	31309	50.5524	-369.877	-369.849	-2.78E-02	-1.09999	10.0589	0
2743	31322.5	46.5924	-370.376	-369.846	-0.529351	-1.09999	9.5572	0
2744	31334.9	42.6325	-370.849	-369.845	-1.00395	-1.09998	9.08219	0
2745	31346.1	38.6725	-371.298	-369.846	-1.45188	-1.09999	8.63383	0
2746	31356.3	34.7125	-371.721	-369.847	-1.8745	-1.1	8.21213	0
2747	31365.4	30.7526	-372.118	-369.851	-2.26734	-1.09999	7.81709	0
2748	31373.4	26.7926	-372.484	-369.851	-2.63219	-1.09998	7.44871	0
2749	31380.3	22.8327	-372.824	-369.852	-2.97236	-1.09998	7.10698	0
2750	31386.1	18.8727	-373.139	-369.852	-3.28738	-1.09999	6.79191	0
2751	31390.8	14.9127	-373.429	-369.852	-3.57718	-1.09999	6.50351	0
2752	31394.4	10.9528	-373.69	-369.852	-3.83758	-1.09999	6.24176	0
2753	31396.9	6.99293	-373.866	-148.156	-225.71	-1.09994	6.00667	0
2754	31398.2	3.47467	-222.362	-0.852686	-221.51	-1.02938	5.82016	0
2755	31398.7	1.09602	-222.362	-0.268964	-222.094	-0.777018	5.70599	0
2756	31399	0	0	0	0	0	5.65662	0
2757	31399	0	0	0	0	0	5.65662	0
2758	31399	0	0	0	0	0	5.65662	0
2759	31399	0	0	0	0	0	5.65662	0
2760	31399	0	0	0	0	0	5.65662	0
2761	31399	0	0	0	0	0	5.65662	0
2762	31399	0	0	0	0	0	5.65662	0
2763	31399	0	0	0	0	0	5.65662	0
2764	31399	0	0	0	0	0	5.65662	0
2765	31399	0	0	0	0	0	5.65662	0

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010390

2766	31399	0	0	0	0	0	5.65662	0
2767	31399	0	0	0	0	0	5.65662	0
2768	31399	0	0	0	0	0	5.65662	0
2769	31399	0	0	0	0	0	5.65662	0
2770	31399	0	0	0	0	0	5.65662	0
2771	31399	0	0	0	0	0	5.65662	0
2772	31399	0	0	0	0	0	5.65662	0
2773	31399.3	1.30441	397.182	397.182	0	0.354296	5.71561	0
2774	31399.9	3.72345	397.182	397.182	0	1.01134	5.83266	0
2775	31401.3	7.49323	397.181	397.181	0	1.13283	6.0349	0
2776	31404	11.5694	397.181	397.181	0	1.13199	6.28076	0
2777	31407.8	15.6426	397.181	397.181	0	1.13114	6.55466	0
2778	31412.7	19.7128	397.181	397.181	0	1.13024	6.85653	0
2779	31418.7	23.7796	397.181	397.181	0	1.12927	7.18628	0
2780	31425.9	27.8429	397.187	397.187	0	1.12824	7.54381	0
2781	31434.2	31.8974	394.522	394.522	0	1.12127	7.92856	0
2782	31443.6	35.8915	378.916	378.916	0	1.08746	8.33489	0
2783	31454.1	39.5348	332.984	332.984	0	0.950316	8.72919	0
2784	31465.5	42.7704	305.192	305.192	0	0.863361	9.09828	0
2785	31477.8	45.7429	283.201	283.201	0	0.796471	9.45306	0
2786	31490.9	48.4302	267.485	267.485	0	0.718149	20.5895	0
2787	31504.7	50.9266	253.676	253.676	0	0.673577	21.9047	0
2788	31519.2	53.2777	241.931	241.931	0	0.635401	23.2592	0
2789	31534.3	55.4421	231.483	231.483	0	0.584159	30.3053	0
2790	31549.9	56.921	21.6887	21.6887	0	9.46E-03	30.9351	0
2791	31565.7	56.921	21.0047	21.0047	0	0	21.0047	0
2792	31581.6	56.921	21.0047	21.0047	0	0	21.0047	0
2793	31597.4	56.921	19.9197	19.9197	0	0	19.9598	0
2794	31613.2	56.921	24.4978	24.4978	0	0	24.4978	0
2795	31629	56.921	24.4978	24.4978	0	0	24.4978	0
2796	31644.8	56.921	24.4978	24.4978	0	0	24.4978	0
2797	31660.6	56.921	24.533	24.533	0	0	24.4978	0
2798	31676.4	56.921	25.6662	25.6662	0	0	25.5941	0
2799	31692.2	56.921	21.0047	21.0047	0	0	21.0047	0
2800	31708	56.921	21.0047	21.0047	0	0	21.0047	0
2801	31723.9	56.921	21.0047	21.0047	0	0	21.0047	0
2802	31739.7	56.921	21.5464	21.5464	0	0	21.5023	0
2803	31755.5	56.921	22.2447	22.2447	0	0	22.2005	0
2804	31771.3	56.921	17.5851	17.5851	0	0	17.613	0
2805	31787.1	56.921	17.1445	17.1445	0	0	17.1724	0
2806	31802.9	56.921	16.704	16.704	0	0	16.7318	2
2807	31818.7	56.921	16.2634	16.2634	0	0	16.2913	2
2808	31834.5	56.921	15.8228	15.8228	0	0	15.8507	2
2809	31850.4	58.068	220.528	220.528	0	0.592435	16.4738	2
2810	31866.9	60.1467	212.027	212.027	0	0.564347	17.4994	2
2811	31883.9	62.1425	206.023	206.023	0	5.46E-01	17.8626	2
2812	31901.4	64.0736	200.214	200.214	0	0.528079	18.1549	2
2813	31919.4	65.9462	194.928	194.928	0	0.513828	17.736	2
2814	31938	67.7722	190.105	190.105	0	0.501363	17.2039	2
2815	31957.1	69.5542	185.398	185.398	0	0.489307	16.6483	2
2816	31976.7	71.2933	180.777	180.777	0	0.476737	16.3587	0
2817	31996.7	72.9403	176.392	176.392	0	0.440123	24.5959	0
2818	32017.2	74.4567	172.355	172.355	0	0.404068	32.99	0
2819	32038	75.8444	168.661	168.661	0	0.368601	41.5261	0
2820	32059.3	77.1027	165.313	165.313	0	0.331736	50.8905	20

2821	32080.9	78.2275	162.32	162.32	0	0.294856	60.6166	20
2822	32102.7	79.2208	159.677	159.677	0	0.258677	70.4512	20
2823	32124.9	80	76.4477	76.4477	0	2.21E-03	76.4477	20
2824	32147.1	80	79.8673	79.8673	0	0	78.7177	20
2825	32169.3	80	71.4241	71.4241	0	0	71.8643	20
2826	32191.5	80	61.5886	61.5886	0	0	62.0335	20
2827	32213.8	80	50.3958	50.3958	0	0	50.8374	20
2828	32236	80	39.2418	39.2418	0	0	39.6984	0
2829	32258.2	80	29.0953	29.0953	0	0	29.5519	0
2830	32280.4	80	18.9489	18.9489	0	0	19.4054	0
2831	32302.6	80	14.6257	14.6257	0	0	14.6257	0
2832	32324.9	80	14.6257	14.6257	0	0	14.6257	0
2833	32347.1	80	14.6257	14.6257	0	0	14.6257	0
2834	32369.3	80	15.9136	15.9136	0	0	15.905	0
2835	32391.5	80	16.8356	16.8356	0	0	16.0956	0
2836	32413.8	80	16.8555	16.8555	0	0	16.8559	0
2837	32436	80	15.8261	15.8261	0	0	15.8261	0
2838	32458.2	80	15.8261	15.8261	0	0	15.8261	0
2839	32480.4	80	15.3204	15.3204	0	0	15.3211	0
2840	32502.6	80	15.335	15.335	0	0	15.3331	0
2841	32524.9	80	15.4102	15.4102	0	0	15.4055	0
2842	32547.1	80	13.9591	13.9591	0	0	12.2912	0
2843	32569.3	80	5.50359	5.50359	0	0	5.94124	0
2844	32591.5	80	-4.2769	-4.2769	0	0	-3.83448	0
2845	32613.8	80	-14.1632	-14.1632	0	0	-13.7161	-20
2846	32636	80	-26.4718	-26.4718	0	0	-26.0152	-20
2847	32658.2	80	-36.2784	-36.2784	0	0	-35.8461	-20
2848	32680.4	80	-45.793	-45.793	0	0	-45.4026	-20
2849	32702.6	80	-47.1963	-47.1963	0	0	-47.1963	-20
2850	32724.9	80	-47.1963	-47.1963	0	0	-47.1963	-20
2851	32747.1	79.4897	-241.397	-241.397	0	-0.557559	-36.7402	-20
2852	32768.7	76.3423	-365.962	-326.333	-39.629	-0.979594	-27.6124	-20
2853	32789.5	72.7638	-366.572	-342.91	-23.6617	-1.00712	-18.7155	-20
2854	32809.2	69.1148	-367.173	-358.219	-8.95424	-1.01917	-15.1569	-20
2855	32827.8	65.403	-367.763	-367.763	0	-1.04113	-8.1581	0
2856	32845.5	61.61	-368.336	-368.336	0	-1.07407	2.64638	0
2857	32862.1	57.7067	-368.903	-368.903	0	-1.09306	8.63618	0
2858	32877.5	53.7372	-369.456	-369.456	0	-1.11086	14.2311	0
2859	32891.9	49.7422	-369.981	-369.849	-0.13175	-1.1	9.95408	0
2860	32905.2	45.7823	-370.477	-369.846	-0.631649	-1.09999	9.45786	0
2861	32917.3	41.8174	-370.944	-369.845	-1.09907	-1.10352	10.2077	0
2862	32928.4	37.8467	-371.387	-369.846	-1.54122	-1.10255	9.43167	0
2863	32938.4	33.8792	-371.805	-369.848	-1.95709	-1.10169	8.71582	0
2864	32947.2	29.9146	-372.197	-369.851	-2.34588	-1.10109	8.24195	0
2865	32955	25.9473	-372.561	-369.851	-2.70986	-1.10245	8.22326	0
2866	32961.6	21.9847	-372.895	-369.852	-3.04308	-1.09998	7.03727	0
2867	32967.2	18.0247	-373.203	-369.852	-3.35113	-1.09998	6.72791	0
2868	32971.7	14.0647	-373.486	-369.852	-3.63402	-1.09999	6.44521	0
2869	32975	10.1048	-373.736	-369.852	-3.88347	-1.1	6.18917	0
2870	32977.2	6.14504	-338.545	-85.6455	-252.9	-1.0999	5.9598	0
2871	32978.3	2.9653	-222.362	-0.727686	-221.635	-0.975339	5.7949	0
2872	32978.9	0.586648	-222.362	-0.143964	-222.219	-0.722976	5.68279	0
2873	32979	0	0	0	0	0	5.65662	0
2874	32979	0	0	0	0	0	5.65662	0
2875	32979	0	0	0	0	0	5.65662	0

2876	32979	0	0	0	0	0	5.65662	0
2877	32979	0	0	0	0	0	5.65662	0
2878	32979	0	0	0	0	0	5.65662	0
2879	32979	0	0	0	0	0	5.65662	0
2880	32979	0	0	0	0	0	5.65662	0
2881	32979	0	0	0	0	0	5.65662	0
2882	32979	0	0	0	0	0	5.65662	0
2883	32979	0	0	0	0	0	5.65662	0
2884	32979	0	0	0	0	0	5.65662	0
2885	32979	0	0	0	0	0	5.65662	0
2886	32979	0	0	0	0	0	5.65662	0
2887	32979	0	0	0	0	0	5.65662	0
2888	32979	0	0	0	0	0	5.65662	0
2889	32979	0	0	0	0	0	5.65662	0
2890	32979.4	1.82243	397.182	397.182	0	0.494999	5.73984	0
2891	32980	4.28819	397.182	397.182	0	1.13353	5.86142	0
2892	32981.8	8.36634	397.181	397.181	0	1.13264	6.08519	0
2893	32984.7	12.4418	397.181	397.181	0	1.13181	6.33705	0
2894	32988.7	16.5145	397.181	397.181	0	1.13096	6.61695	0
2895	32993.9	20.584	397.181	397.181	0	1.13004	6.9248	0
2896	33000.1	24.6501	397.181	397.181	0	1.12905	7.26051	0
2897	33007.6	28.7126	397.189	397.189	0	1.12801	7.62398	0
2898	33016.1	32.7596	393.309	393.309	0	1.11745	8.01398	0
2899	33025.7	36.5865	370.154	370.154	0	1.01356	24.6681	0
2900	33036.4	39.9554	327.91	327.91	0	0.872009	30.1061	0
2901	33047.9	42.9112	304.078	304.078	0	0.781852	35.9311	0
2902	33060.2	45.5711	284.206	284.206	0	0.704401	42.1063	0
2903	33073.2	47.99	270.06	270.06	0	0.644193	48.5986	0
2904	33086.8	50.2048	252.32	252.32	0	0.63202	55.3804	0
2905	33100.9	50.9117	55.0233	55.0233	0	0	54.6369	17.5
2906	33115.1	50.9117	60.4876	60.4876	0	0	60.1013	17.5
2907	33129.2	50.9117	65.952	65.952	0	0	65.5656	17.5
2908	33143.4	50.9117	71.4163	71.4163	0	0	71.03	17.5
2909	33157.5	50.9117	76.7458	76.7458	0	0	76.4943	17.5
2910	33171.6	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2911	33185.8	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2912	33199.9	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2913	33214.1	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2914	33228.2	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2915	33242.4	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2916	33256.5	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2917	33270.6	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2918	33284.8	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2919	33298.9	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2920	33313.1	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2921	33327.2	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2922	33341.3	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2923	33355.5	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2924	33369.6	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2925	33383.8	50.9117	76.8039	76.8039	0	0	76.8039	17.5
2926	33397.9	50.9117	70.0234	70.0234	0	0	70.1135	17.5
2927	33412.1	50.9117	68.7502	68.7502	0	0	68.8403	17.5
2928	33426.2	50.9117	67.4771	67.4771	0	0	67.5671	17.5
2929	33440.3	50.9117	66.2039	66.2039	0	0	66.2939	17.5
2930	33454.5	50.9117	64.9307	64.9307	0	0	65.0207	17.5

2931	33468.6	51.2296	213.24	213.24	0	0.375118	64.2416	17.5
2932	33483.1	53.0788	242.924	242.924	0	0.518498	64.4872	17.5
2933	33498.1	54.893	233.861	233.861	0	0.491388	64.7337	17.5
2934	33513.6	56.6185	226.575	226.575	0	0.469215	64.9733	17.5
2935	33529.6	58.2679	219.694	219.694	0	0.448521	65.2072	17.5
2936	33546	59.8446	213.117	213.117	0	0.428732	65.435	17.5
2937	33562.8	61.3585	208.381	208.381	0	0.414016	65.6578	17.5
2938	33580.1	62.8233	203.975	203.975	0	0.40058	65.877	17.5
2939	33597.7	64.2406	199.712	199.712	0	0.387573	66.0926	17.5
2940	33615.7	65.6123	195.81	195.81	0	0.375548	66.3045	17.5
2941	33634.2	66.9436	192.293	192.293	0	0.364733	66.5133	17.5
2942	33652.9	68.2367	188.878	188.878	0	0.354223	66.7189	17.5
2943	33672.1	69.4925	185.561	185.561	0	0.344008	66.9213	17.5
2944	33691.5	70.712	182.325	182.325	0	0.334043	67.1204	17.5
2945	33711.3	71.8961	179.172	179.172	0	0.324326	67.3162	17.5
2946	33731.5	73.0457	176.111	176.111	0	0.314886	67.5085	17.5
2947	33751.9	74.162	173.139	173.139	0	0.305715	67.6974	17.5
2948	33772.7	75.2457	170.254	170.254	0	0.296807	67.8829	17.5
2949	33793.7	76.2978	167.455	167.455	0	0.288158	68.0648	17.5
2950	33815.1	77.3193	164.737	164.737	0	0.279755	68.2433	17.5
2951	33836.7	78.3109	162.098	162.098	0	0.271593	68.4182	17.5
2952	33858.6	79.2737	159.536	159.536	0	0.263665	68.5896	17.5
2953	33880.7	80	68.72	68.72	0	0	68.72	17.5
2954	33902.9	80	68.72	68.72	0	0	68.72	17.5
2955	33925.1	80	68.72	68.72	0	0	68.72	17.5
2956	33947.4	80	68.72	68.72	0	0	68.72	17.5
2957	33969.6	80	68.72	68.72	0	0	68.72	17.5
2958	33991.8	80	68.8311	68.8311	0	0	68.7759	17.5
2959	34014	80	70.0578	70.0578	0	0	70.0026	17.5
2960	34036.3	80	71.2844	71.2844	0	0	71.2292	17.5
2961	34058.5	80	72.511	72.511	0	0	72.4558	17.5
2962	34080.7	80	73.7376	73.7376	0	0	73.6825	20
2963	34102.9	80	74.9643	74.9643	0	0	74.9091	20
2964	34125.1	80	76.1909	76.1909	0	0	76.1357	20
2965	34147.4	80	76.4477	76.4477	0	0	76.4477	20
2966	34169.6	80	76.4477	76.4477	0	0	76.4477	20
2967	34191.8	80	77.5498	77.5498	0	0	77.5426	20
2968	34214	80	78.1882	78.1882	0	0	78.1872	20
2969	34236.3	80	78.1832	78.1832	0	0	78.1845	20
2970	34258.5	80	77.456	77.456	0	0	77.456	20
2971	34280.7	80	77.0863	77.0863	0	0	77.0944	20
2972	34302.9	80	76.9323	76.9323	0	0	76.9382	20
2973	34325.1	80	76.8292	76.8292	0	0	76.8327	20
2974	34347.4	80	77.1853	77.1853	0	0	77.1805	20
2975	34369.6	80	77.2935	77.2935	0	0	77.2886	20
2976	34391.8	80	77.4016	77.4016	0	0	77.3967	20
2977	34414	80	77.129	77.129	0	0	77.129	20
2978	34436.3	80	77.129	77.129	0	0	77.129	20
2979	34458.5	80	77.129	77.129	0	0	77.129	20
2980	34480.7	80	77.129	77.129	0	0	77.129	20
2981	34502.9	80	77.129	77.129	0	0	77.129	20
2982	34525.1	80	77.129	77.129	0	0	77.129	20
2983	34547.4	80	77.129	77.129	0	0	77.129	20
2984	34569.6	80	77.129	77.129	0	0	77.129	20
2985	34591.8	80	77.129	77.129	0	0	77.129	20

2986	34614	80	77.129	77.129	0	0	77.129	20
2987	34636.3	80	77.129	77.129	0	0	77.129	20
2988	34658.5	80	77.129	77.129	0	0	77.129	20
2989	34680.7	80	72.1735	72.1735	0	0	72.5488	20
2990	34702.9	80	63.8324	63.8324	0	0	64.2077	20
2991	34725.1	80	55.4913	55.4913	0	0	55.8667	20
2992	34747.4	80	47.1503	47.1503	0	0	47.5256	3
2993	34769.6	79.4014	-181.198	-181.198	0	-0.600368	39.0869	3
2994	34791.2	75.8963	-366.027	-328.398	-37.6295	-1.14761	30.3552	3
2995	34811.8	72.6288	-152.417	-152.417	0	-0.548439	23.2988	3
2996	34831.8	72	23.1938	23.1938	0	0	23.1938	3
2997	34851.8	72	23.1938	23.1938	0	0	23.1938	3
2998	34871.8	72	24.9886	24.9886	0	0	24.9514	3
2999	34891.8	72	25.7458	25.7458	0	0	25.7072	3
3000	34911.8	72	29.6953	29.6953	0	0	29.6552	3
3001	34931.8	72	30.4983	30.4983	0	0	30.4581	3
3002	34951.8	72	31.3844	31.3844	0	0	31.3394	3
3003	34971.8	72	28.4577	28.4577	0	0	28.5902	3
3004	34991.8	72	25.8082	25.8082	0	0	25.9406	3
3005	35011.8	72	23.1586	23.1586	0	0	23.2911	3
3006	35031.8	72	20.5091	20.5091	0	0	20.6416	3
3007	35051.8	72	17.8596	17.8596	0	0	17.9921	-3
3008	35071.8	72	15.2101	15.2101	0	0	15.3426	-3
3009	35091.8	72	10.2331	10.2331	0	0	10.4264	-3
3010	35111.8	71.194	-340.14	-340.14	0	-0.96375	6.773	-3
3011	35131	67.303	-367.456	-363.34	-4.1157	-1.08953	8.865	-3
3012	35149.2	63.3806	-368.064	-368.064	0	-1.08966	8.30192	-3
3013	35166.2	59.4553	-368.65	-368.65	0	-1.0916	8.3868	-3
3014	35182.2	55.5199	-369.21	-369.21	0	-1.09449	8.824	-3
3015	35197.1	51.5873	-369.738	-369.738	0	-1.09164	7.30962	0
3016	35210.8	47.6532	-370.243	-369.847	-0.395487	-1.09376	7.53993	0
3017	35223.5	43.7118	-370.723	-369.845	-0.878054	-1.09573	7.73728	0
3018	35235.1	39.7636	-371.179	-369.846	-1.33389	-1.09753	7.90184	0
3019	35245.6	35.8093	-371.608	-369.846	-1.76185	-1.09914	8.03361	0
3020	35255	31.8498	-372.008	-369.85	-2.15841	-1.10012	7.97247	0
3021	35263.3	27.8898	-372.383	-369.851	-2.5315	-1.09998	7.5481	0
3022	35270.5	23.9298	-372.733	-369.852	-2.88098	-1.09999	7.19899	0
3023	35276.6	19.9698	-373.057	-369.852	-3.20506	-1.09999	6.87654	0
3024	35281.6	16.0099	-373.354	-369.852	-3.5017	-1.09999	6.58074	0
3025	35285.5	12.0499	-373.622	-369.852	-3.76998	-1.09999	6.31161	0
3026	35288.3	8.09002	-373.832	-229.039	-144.792	-1.09996	6.06913	0
3027	35290	4.1337	-222.362	-1.01441	-221.348	-1.0993	5.8535	0
3028	35290.6	1.75505	-222.362	-0.430691	-221.932	-0.846938	5.73666	0
3029	35291	0	0	0	0	0	5.65662	0
3030	35291	0	0	0	0	0	5.65662	0
3031	35291	0	0	0	0	0.00E+00	5.65662	0
3032	35291	0	0	0	0	0	5.65662	0
3033	35291	0	0	0	0	0	5.65662	0
3034	35291	0	0	0	0	0	5.65662	0
3035	35291	0	0	0	0	0	5.65662	0
3036	35291	0	0	0	0	0	5.65662	0
3037	35291	0	0	0	0	0	5.65662	0
3038	35291	0	0	0	0	0	5.65662	0
3039	35291	0	0	0	0	0	5.65662	0
3040	35291	0	0	0	0	0	5.65662	0

3041	35291	0	0	0	0	0	5.65662	0
3042	35291	0	0	0	0	0	5.65662	0
3043	35291	0	0	0	0	0	5.65662	0
3044	35291	0	0	0	0	0	5.65662	0
3045	35291	0	0	0	0	0	5.65662	0
3046	35291.2	0.634188	397.182	397.182	0	0.172255	5.68494	0
3047	35291.7	3.05323	397.182	397.182	0	0.829302	5.79923	0
3048	35292.8	6.36342	397.181	397.181	0	1.13308	5.97175	0
3049	35295.1	10.4403	397.181	397.181	0	1.13221	6.20983	0
3050	35298.6	1.45E+01	397.181	3.97E+02	0	1.13138	6.47597	0
3051	35303.2	18.5854	397.181	397.181	0	1.1305	6.77009	0
3052	35308.9	22.6532	397.181	397.181	0	1.12955	7.09213	0
3053	35315.8	26.7175	397.184	397.184	0	1.12853	7.44198	0
3054	35323.8	30.7775	396.098	396.098	0	1.12616	7.81949	0
3055	35332.9	34.7964	390.443	390.443	0	1.10843	8.22079	0
3056	35343.1	38.574	345.096	345.096	0	0.986432	8.62302	0
3057	35354.2	41.8987	312.091	312.091	0	0.881961	9.66277	0
3058	35366.3	44.9293	288.163	288.163	0	0.808244	10.8193	0
3059	35379.2	47.7324	271.566	271.566	0	0.755006	12.0165	0
3060	35392.8	50.2859	256.877	256.877	0	0.685283	21.0947	0
3061	35407.1	52.6743	244.945	244.945	0	0.644671	23.0924	0
3062	35422.1	54.9205	233.727	233.727	0	0.605979	25.1559	3
3063	35437.6	57.0388	224.821	224.821	0	0.573552	27.2812	3
3064	35453.7	59.0534	216.417	216.417	0	0.553736	25.6835	3
3065	35470.4	60.9967	209.47	209.47	0	0.529109	27.0721	3
3066	35487.6	62.8628	203.856	203.856	0	0.509338	28.2642	3
3067	35505.3	64.6649	198.435	198.435	0	0.492792	28.5391	3
3068	35523.5	66.4104	193.702	193.702	0	0.478153	28.8105	3
3069	35542.2	67.3498	28.9588	28.9588	0	0	28.9588	3
3070	35560.9	67.3498	28.9588	28.9588	0	0	28.9588	3
3071	35579.6	67.3498	28.9588	28.9588	0	0	28.9588	3
3072	35598.3	67.3498	25.0751	25.0751	0	0	25.1265	3
3073	35617	67.3498	24.1126	24.1126	0	0	24.1641	3
3074	35635.7	67.3498	23.1502	23.1502	0	0	23.2017	3
3075	35654.4	67.3498	22.1878	22.1878	0	0	22.2392	3
3076	35673.2	67.8596	189.874	189.874	0	0.472152	21.8376	3
3077	35692.2	69.5865	185.312	185.312	0	0.473206	22.1156	3
3078	35711.8	71.264	180.855	180.855	0	0.459474	22.3904	3
3079	35731.8	72.8927	176.518	176.518	0	0.446099	22.6618	3
3080	35752.3	74.474	172.308	172.308	0	0.433102	22.9297	3
3081	35773.2	76.0093	168.222	168.222	0	0.420478	23.1938	3
3082	35794.5	77.4998	164.256	164.256	0	0.408214	23.454	3
3083	35816.3	78.9469	157.259	157.259	0	0.396299	23.7103	3
3084	35837.9	76.1038	-365.996	-327.437	-38.5591	-1.12684	23.2102	3
3085	35858.5	72.0318	-366.687	-346.302	-20.385	-1.13403	25.0038	3
3086	35877.9	67.9432	-367.354	-361.531	-5.82323	-1.13869	25.9468	3
3087	35896.2	64.018	-263.939	-263.939	0	-0.883119	25.3652	3
3088	35913.7	62.3627	15.3525	15.3525	0	-8.26E-02	27.7628	3
3089	35931	62.3538	28.7997	28.7997	0	0	28.6452	3
3090	35948.4	62.3538	32.5207	32.5207	0	0	32.3341	3
3091	35965.7	62.3538	35.7881	35.7881	0	0	35.5975	3
3092	35983	62.3538	39.1256	39.1256	0	0	38.931	10
3093	36000.3	62.3538	46.7553	46.7553	0	0	46.5571	10
3094	36017.6	62.3538	50.2903	50.2903	0	0	50.0758	10
3095	36035	62.3538	54.0069	54.0069	0	0	53.7923	10

3096	36052.3	62.3538	55.0995	55.0995	0	0	55.0395	10
3097	36069.6	62.3538	51.0257	51.0257	0	0	51.0257	10
3098	36086.9	62.3538	51.0257	51.0257	0	0	51.0257	10
3099	36104.2	62.3538	51.0257	51.0257	0	0	51.0257	10
3100	36121.6	62.3538	42.9343	42.9343	0	0	43.4863	10
3101	36138.9	62.3538	33.3737	33.3737	0	0	33.9257	10
3102	36156.2	62.3538	23.8131	23.8131	0	0	24.365	10
3103	36173.5	62.3538	14.2524	14.2524	0	0	14.8044	10
3104	36190.8	62.3538	4.69184	4.69184	0	0	5.24382	-15
3105	36208.2	62.3538	-3.85491	-3.85491	0	0	-3.63412	-15
3106	36225.5	62.3538	-7.67916	-7.67916	0	0	-7.45836	-15
3107	36242.8	62.3538	-11.5034	-11.5034	0	0	-11.2826	-15
3108	36260.1	62.3538	-8.02891	-8.02891	0	0	-8.3601	-15
3109	36277.4	62.3538	-2.29254	-2.29254	0	0	-2.62373	0
3110	36294.8	62.3538	3.44383	3.44383	0	0.00E+00	3.11264	0
3111	36312.1	62.3538	9.18019	9.18019	0	0	8.849	0
3112	36329.4	62.3538	9.86272	9.86272	0	0	9.59155	0
3113	36346.5	59.9831	-368.574	-368.574	0	-1.10685	13.742	0
3114	36362.6	56.0037	-369.141	-369.141	0	-1.10408	12.2073	0
3115	36377.6	52.0341	-369.678	-369.678	0	-1.10147	10.767	0
3116	36391.5	48.0727	-370.19	-369.848	-0.342475	-1.09999	9.74161	0
3117	36404.3	44.1127	-370.676	-369.845	-0.831216	-1.09999	9.25663	0
3118	36416.1	40.1527	-371.137	-369.845	-1.29174	-1.1	8.79831	0
3119	36426.7	36.1928	-371.567	-369.846	-1.72027	-1.09999	8.36664	0
3120	36436.2	32.2328	-371.97	-369.849	-2.1204	-1.09998	7.96164	0
3121	36444.6	28.2729	-372.348	-369.851	-2.49636	-1.09998	7.58329	0
3122	36451.9	24.3129	-372.701	-369.852	-2.8491	-1.09999	7.2316	0
3123	36458.1	20.3529	-373.028	-369.852	-3.17634	-1.09999	6.90657	0
3124	36463.2	16.393	-373.326	-369.852	-3.47375	-1.09999	6.60819	0
3125	36467.2	12.433	-373.596	-369.852	-3.74398	-1.09998	6.33648	0
3126	36470.1	8.4731	-373.82	-257.282	-116.538	-1.09996	6.09142	0
3127	36471.9	4.51361	-244.087	-1.10764	-242.98	-1.09982	5.87305	0
3128	36472.5	1.98517	-222.362	-0.487161	-221.875	-0.871352	5.74754	0
3129	36473	0	0	0	0	0	5.65662	0
3130	36473	0	0	0	0	0	5.65662	0
3131	36473	0	0	0	0	0	5.65662	0
3132	36473	0	0	0	0	0	5.65662	0
3133	36473	0	0	0	0	0	5.65662	0
3134	36473	0	0	0	0	0	5.65662	0
3135	36473	0	0	0	0	0	5.65662	0
3136	36473	0	0	0	0	0	5.65662	0
3137	36473	0	0	0	0	0	5.65662	0
3138	36473	0	0	0	0	0	5.65662	0
3139	36473	0	0	0	0	0	5.65662	0
3140	36473	0	0	0	0	0	5.65662	0
3141	36473	0	0	0	0	0	5.65662	0
3142	36473	0	0	0	0	0	5.65662	0
3143	36473	0	0	0	0	0	5.65662	0
3144	36473	0	0	0	0	0	5.65662	0
3145	36473	0	0	0	0	0	5.65662	0
3146	36473.1	0.400164	397.182	397.182	0	0.10869	5.67441	0
3147	36473.7	2.81921	397.182	397.182	0	0.765737	5.78774	0
3148	36474.7	5.96884	397.181	397.181	0	1.13316	5.95021	0
3149	36476.9	10.046	397.181	397.181	0	1.13229	6.18557	0
3150	36480.2	14.1203	397.181	397.181	0	1.13146	6.449	0

3151	36484.7	18.1917	397.181	397.181	0	1.13059	6.74042	0
3152	36490.3	22.2598	397.181	397.181	0	1.12964	7.05976	0
3153	36497.1	26.3245	397.184	397.184	0	1.12863	7.40692	0
3154	36504.9	30.3854	396.643	396.643	0	1.12756	7.78181	0
3155	36513.9	34.4104	390.986	390.986	0	1.11014	8.18105	0
3156	36524	38.2301	349.432	349.432	0	0.999369	8.5854	0
3157	36535.1	41.594	314.503	314.503	0	0.891086	8.96203	0
3158	36547.1	44.6602	290.235	290.235	0	0.818849	9.32209	0
3159	36559.9	47.4997	272.927	272.927	0	0.76581	9.66979	0
3160	36573.5	50.1661	257.475	257.475	0	0.719373	10.0088	0
3161	36587.8	52.6825	244.904	244.904	0	0.68161	10.3398	0
3162	36602.7	55.0675	233.055	233.055	0	0.645947	10.6634	0
3163	36618.4	57.3373	223.576	223.576	0	0.617256	10.9804	0
3164	36634.6	59.5071	214.524	214.524	0	0.590011	11.2916	0
3165	36651.4	61.588	207.691	207.691	0	0.568829	11.5976	0
3166	36668.8	63.6005	201.637	201.637	0	0.550356	11.9005	0
3167	36686.7	65.5385	196.005	196.005	0	0.529522	13.4024	0
3168	36705.2	67.4157	191.046	191.046	0	0.514239	13.7068	0
3169	36724.2	69.236	186.238	186.238	0	0.49717	14.7781	0
3170	36743.7	71	181.558	181.558	0	0.481822	15.164	0
3171	36763.6	72.7003	177.031	177.031	0	0.464036	16.9883	0
3172	36783.9	71.5881	-366.762	-348.358	-18.4037	-1.11403	18.0218	3
3173	36803.2	67.5711	-367.413	-362.582	-4.83088	-1.11745	18.5516	3
3174	36821.4	63.5415	-368.04	-368.04	0	-1.12095	19.131	3
3175	36838.5	59.4998	-368.643	-368.643	0	-1.12423	19.6619	3
3176	36854.4	55.4469	-369.22	-369.22	0	-1.12684	19.9891	3
3177	36869.3	51.8849	-198.071	-198.071	0	-0.68561	19.507	3
3178	36883.5	50.9117	19.379	19.379	0	0	19.379	3
3179	36897.7	50.9117	19.379	19.379	0	0	19.379	3
3180	36911.8	50.9117	19.379	19.379	0	0	19.379	3
3181	36926	50.9117	19.379	19.379	0	0	19.379	3
3182	36940.1	50.9117	19.379	19.379	0	0	19.379	3
3183	36954.2	50.9117	32.2837	32.2837	0	0	32.1937	3
3184	36968.4	50.9117	33.5569	33.5569	0	0	33.4669	3
3185	36982.5	50.9117	34.8301	34.8301	0	0	34.7401	3
3186	36996.7	50.9117	36.1033	36.1033	0	0	36.0133	3
3187	37010.8	50.9117	37.3765	37.3765	0	0	37.2864	3
3188	37025	50.9117	31.9829	31.9829	0	0	31.9829	3
3189	37039.1	50.9117	31.9829	31.9829	0	0	31.9829	3
3190	37053.2	50.9117	31.9829	31.9829	0	0	31.9829	3
3191	37067.4	50.9117	31.9829	31.9829	0	0	31.9829	3
3192	37081.5	50.9117	31.9829	31.9829	0	0	31.9829	3
3193	37095.7	50.9117	31.9829	31.9829	0	0	31.9829	3
3194	37109.8	50.9117	28.1209	28.1209	0	0	28.6287	3
3195	37123.9	50.9117	20.9392	20.9392	0	0	21.447	3
3196	37138.1	50.9117	13.7575	13.7575	0	0	14.2653	3
3197	37152.2	50.9117	6.57576	6.57576	0	0	7.08358	3
3198	37166.4	50.9117	-0.605954	-0.605954	0	0	-9.81E-02	3
3199	37180.5	50.9117	-7.78767	-7.78767	0	0	-7.27985	-20
3200	37194.7	50.9117	-19.1281	-19.1281	0	0	-18.5409	-20
3201	37208.8	50.9117	-27.2979	-27.2979	0	0	-26.7288	-20
3202	37222.9	50.9117	-35.2105	-35.2105	0	0	-34.6595	-20
3203	37237.1	50.9117	-42.8657	-42.8657	0	0	-42.3329	-20
3204	37251.2	50.9117	-45.6799	-45.6799	0	0	-45.6732	-20
3205	37265.4	50.9117	-38.413	-38.413	0	0	-38.5031	-20

3206	37279.5	50.9117	-37.1399	-37.1399	0	0	-37.2299	-20
3207	37293.7	50.9117	-35.8667	-35.8667	0	0	-35.9567	-20
3208	37307.8	50.9117	-34.5935	-34.5935	0	0	-34.6835	-20
3209	37321.9	50.9117	-33.3203	-33.3203	0	0	-33.4103	-20
3210	37336.1	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3211	37350.2	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3212	37364.4	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3213	37378.5	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3214	37392.6	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3215	37406.8	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3216	37420.9	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3217	37435.1	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3218	37449.2	50.9117	-39.1124	-39.1124	0	0	-39.1124	-20
3219	37463.4	50.9117	-35.8189	-35.8189	0	0	-36.2605	-20
3220	37477.5	50.9117	-29.5739	-29.5739	0	0	-30.0155	-20
3221	37491.6	50.9117	-23.3289	-23.3289	0	0	-23.7705	-20
3222	37505.8	50.9117	-17.084	-17.084	0	0	-17.5256	-20
3223	37519.9	50.9117	-10.839	-10.839	0	0	-11.2806	-20
3224	37534.1	50.9117	-4.59403	-4.59403	0	0	-5.03562	0
3225	37548.2	50.6084	-211.406	-211.406	0	-0.555865	1.16681	0
3226	37561.8	47.2929	-370.291	-369.847	-0.443825	-1.07015	-0.663163	0
3227	37574.4	43.415	-370.76	-369.845	-0.915291	-1.08298	3.29602	0
3228	37586	39.4931	-371.211	-369.846	-1.36552	-1.0947	6.89543	0
3229	37596.4	35.5309	-371.638	-369.847	-1.79141	-1.10526	10.1311	0
3230	37605.7	31.5544	-372.037	-369.85	-2.18762	-1.10353	9.11952	0
3231	37613.9	27.586	-372.411	-369.851	-2.55926	-1.10139	8.00544	0
3232	37621	23.6246	-372.758	-369.852	-2.90639	-1.09999	7.17319	0
3233	37627	19.6646	-373.08	-369.852	-3.22794	-1.09999	6.85279	0
3234	37631.9	15.7046	-373.376	-369.852	-3.52397	-1.09999	6.55905	0
3235	37635.8	11.7447	-373.643	-369.852	-3.7907	-1.09999	6.29197	0
3236	37638.4	7.78479	-373.841	-206.536	-167.306	-1.09995	6.05155	0
3237	37640	3.95034	-222.362	-0.969417	-221.393	-1.07985	5.84415	0
3238	37640.6	1.57169	-222.362	-0.385695	-221.977	-0.827485	5.72805	0
3239	37641	0	0	0	0	0	5.65662	0
3240	37641	0	0	0	0	0	5.65662	0
3241	37641	0	0	0	0	0	5.65662	0
3242	37641	0	0	0	0	0	5.65662	0
3243	37641	0	0	0	0	0	5.65662	0
3244	37641	0	0	0	0	0	5.65662	0
3245	37641	0	0	0	0	0	5.65662	0
3246	37641	0	0	0	0	0	5.65662	0
3247	37641	0	0	0	0	0	5.65662	0
3248	37641	0	0	0	0	0	5.65662	0
3249	37641	0	0	0	0	0	5.66E+00	0
3250	37641	0	0	0	0	0	5.65662	0
3251	37641	0	0	0	0	0	5.65662	0
3252	37641	0	0	0	0	0	5.65662	0
3253	37641	0	0	0	0	0	5.65662	0
3254	37641	0	0	0	0	0	5.65662	0
3255	37641	0	0	0	0	0	5.65662	0
3256	37641.2	0.820658	397.182	397.182	0	0.222903	5.69339	0
3257	37641.8	3.2397	397.182	397.182	0	0.87995	5.80846	0
3258	37642.9	6.67783	397.181	397.181	0	1.13301	5.98911	0
3259	37645.4	10.7544	397.181	397.181	0	1.13215	6.22935	0
3260	37648.9	14.8283	397.181	397.181	0	1.13132	6.49765	0

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3261	37653.6	18.8991	397.181	397.181	0	1.13043	6.79393	0
3262	37659.4	22.9666	397.181	397.181	0	1.12947	7.11811	0
3263	37666.3	27.0307	397.185	397.185	0	1.12845	7.4701	0
3264	37674.4	31.0896	395.659	395.659	0	1.12485	7.84967	0
3265	37683.6	35.1036	388.213	388.213	0	1.10707	8.25258	0
3266	37693.9	38.8449	341.682	341.682	0	0.976248	8.65279	0
3267	37705.1	42.1457	310.136	310.136	0	0.878081	9.02564	0
3268	37717.3	45.1672	286.568	286.568	0	0.807085	9.38317	0
3269	37730.2	47.9752	270.146	270.146	0	0.757511	9.72935	0
3270	37743.9	50.6121	255.247	255.247	0	0.711309	10.4985	0
3271	37758.3	53.0956	242.84	242.84	0	0.671405	11.7813	0
3272	37773.4	55.4397	231.493	231.493	0	0.634148	13.0996	0
3273	37789.1	57.6633	222.217	222.217	0	0.603219	14.4521	0
3274	37805.4	59.7779	213.395	213.395	0	0.573529	15.8371	0
3275	37822.3	61.797	207.062	207.062	0	0.550595	17.2534	3
3276	37839.8	63.7371	201.226	201.226	0	0.527263	19.4504	3
3277	37857.7	65.5963	195.852	195.852	0	0.507202	20.9467	3
3278	37876.2	67.3878	191.12	191.12	0	0.489086	22.4549	3
3279	37895.2	69.1209	186.542	186.542	0	0.474799	22.7977	3
3280	37914.6	70.8077	182.07	182.07	0	0.462601	22.5281	3
3281	37934.5	72.4479	177.703	177.703	0	0.449343	22.7285	3
3282	37954.8	74.0412	173.461	173.461	0	0.436464	22.9239	3
3283	37975.6	75.5887	169.341	169.341	0	0.423937	23.121	3
3284	37996.8	77.0915	165.343	165.343	0	0.411575	23.3823	3
3285	38018.4	78.5505	161.461	161.461	0	0.399564	23.6397	3
3286	38040.5	79.909	90.6588	90.6588	0	0.229382	23.8826	3
3287	38062.7	80	23.899	23.899	0	0	23.899	3
3288	38084.9	80	23.899	23.899	0	0	23.899	3
3289	38107.1	80	23.899	23.899	0	0	23.899	3
3290	38129.3	80	23.899	23.899	0	0	23.899	3
3291	38151.6	80	23.899	23.899	0	0	23.899	3
3292	38173.8	80	23.899	23.899	0	0	23.899	3
3293	38196	80	23.899	23.899	0	0	23.899	3
3294	38218.2	80	23.899	23.899	0	0	23.899	3
3295	38240.5	80	23.899	23.899	0	0	23.899	3
3296	38262.7	80	23.899	23.899	0	0	23.899	3
3297	38284.9	80	23.899	23.899	0	0	23.899	3
3298	38307.1	80	23.899	23.899	0	0	23.899	3
3299	38329.3	80	23.899	23.899	0	0	23.899	3
3300	38351.6	80	23.899	23.899	0	0	23.899	3
3301	38373.8	80	23.899	23.899	0	0	23.899	3
3302	38396	80	23.899	23.899	0	0	23.899	3
3303	38418.2	80	23.899	23.899	0	0	23.899	3
3304	38440.5	80	23.899	23.899	0	0	23.899	3
3305	38462.7	80	23.899	23.899	0	0	23.899	3
3306	38484.9	79.8037	-122.405	-122.405	0	-0.38736	23.8637	3
3307	38506.7	76.9185	-365.852	-323.664	-42.1881	-1.12633	23.1783	3
3308	38527.5	72.8713	-366.546	-342.412	-24.1339	-1.12234	21.1064	3
3309	38547.2	68.838	-367.211	-359.001	-8.21006	-1.11857	19.139	3
3310	38565.8	64.818	-367.848	-367.848	0	-1.11502	17.2754	3
3311	38583.2	60.8104	-368.452	-368.452	0	-1.11167	15.515	0
3312	38599.6	56.8145	-369.025	-369.025	0	-1.10853	13.8571	0
3313	38614.8	52.8294	-369.572	-369.572	0	-1.10561	12.3012	0
3314	38628.9	48.8545	-370.092	-369.848	-0.243683	-1.1029	10.8468	0
3315	38641.9	44.8889	-370.586	-369.845	-0.740554	-1.10042	9.49352	0

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3316	38653.8	40.9289	-371.048	-369.845	-1.20282	-1.09999	8.88604	0
3317	38664.7	36.9689	-371.482	-369.846	-1.63624	-1.09998	8.44915	0
3318	38674.4	33.009	-371.892	-369.848	-2.04341	-1.09998	8.03892	0
3319	38683	29.049	-372.276	-369.851	-2.42519	-1.09999	7.65534	0
3320	38690.5	25.0891	-372.636	-369.852	-2.78454	-1.1	7.29843	0
3321	38696.9	21.1291	-372.966	-369.852	-3.1145	-1.09999	6.96817	0
3322	38702.3	17.1691	-373.267	-369.852	-3.41557	-1.09998	6.66458	0
3323	38706.5	13.2092	-373.544	-369.852	-3.69158	-1.09999	6.38763	0
3324	38709.6	9.24924	-373.781	-314.502	-59.2791	-1.09998	6.13735	0
3325	38711.6	5.28963	-289.018	-22.5802	-266.438	-1.09986	5.91375	0
3326	38712.4	2.45138	-222.362	-0.601571	-221.761	-0.920815	5.76987	0
3327	38713	7.27E-02	-222.362	-1.78E-02	-222.345	-0.668453	5.65983	0
3328	38713	0	0	0	0	0	5.65662	0
3329	38713	0	0	0	0	0	5.65662	0
3330	38713	0	0	0	0	0	5.65662	0
3331	38713	0	0	0	0	0	5.65662	0
3332	38713	0	0	0	0	0	5.65662	0
3333	38713	0	0	0	0	0	5.65662	0
3334	38713	0	0	0	0	0	5.65662	0
3335	38713	0	0	0	0	0	5.65662	0
3336	38713	0	0	0	0	0	5.65662	0
3337	38713	0	0	0	0	0	5.65662	0
3338	38713	0	0	0	0	0	5.65662	0
3339	38713	0	0	0	0	0	5.65662	0
3340	38713	0	0	0	0	0	5.65662	0
3341	38713	0	0	0	0	0	5.65662	0
3342	38713	0	0	0	0	0	5.65662	0
3343	38713	0	0	0	0	0	5.65662	0
3344	38713	0	0	0	0	0	5.65662	0
3345	38713.6	2.34507	397.182	397.182	0	0.636956	5.76474	0
3346	38714.4	5.16941	397.181	397.181	0	1.13334	5.90738	0
3347	38716.3	9.24709	397.181	397.181	0	1.13246	6.13723	0
3348	38719.5	13.322	397.181	397.181	0	1.13163	6.39516	0
3349	38723.7	17.394	397.181	397.181	0	1.13076	6.6811	0
3350	38729.1	21.4628	397.181	397.181	0	1.12983	6.99497	0
3351	38735.6	25.5281	397.182	397.182	0	1.12883	7.33669	0
3352	38743.3	29.5898	397.191	397.191	0	1.12778	7.70615	0
3353	38752.1	33.6265	392.089	392.089	0	1.11361	8.10114	0
3354	38762	37.5194	358.393	358.393	0	1.02612	8.50828	0
3355	38772.9	40.9621	319.504	319.504	0	0.905984	8.88981	0
3356	38784.7	44.0793	294.833	294.833	0	0.832527	9.25265	0
3357	38797.3	46.9571	276.1	276.1	0	0.775278	9.60229	0
3358	38810.8	49.6565	260.314	260.314	0	0.728173	9.94305	0
3359	38824.9	52.1999	247.315	247.315	0	0.688825	10.2755	0
3360	38839.8	54.6074	235.288	235.288	0	0.650834	11.2862	0
3361	38855.2	56.8854	225.462	225.462	0	0.617959	12.6284	0
3362	38871.3	59.0518	216.424	216.424	0	0.587662	14.0043	0
3363	38888	61.115	209.114	209.114	0	0.5619	15.4116	0
3364	38905.3	63.0968	203.152	203.152	0	0.540399	16.8511	3
3365	38923.1	65.0023	197.423	197.423	0	0.51948	18.3213	3
3366	38941.4	66.837	192.575	192.575	0	0.500949	19.8208	3
3367	38960.2	68.6062	187.902	187.902	0	0.482948	21.3487	3
3368	38979.5	70.3134	183.386	183.386	0	0.467274	22.2341	3
3369	38999.3	71.9698	178.976	178.976	0	0.453679	22.5075	3
3370	39019.5	73.578	174.694	174.694	0	0.440468	22.7774	3

3371	39040.1	75.1386	170.539	170.539	0	0.426817	23.3266	3
3372	39061.2	76.6516	166.513	166.513	0	0.414364	23.5921	3
3373	39082.7	78.1206	162.605	162.605	0	0.402879	23.5635	3
3374	39104.6	79.5495	158.802	158.802	0	0.391334	23.818	3
3375	39126.8	80	23.9354	23.9354	0	0	23.9369	3
3376	39149	80	23.9021	23.9021	0	0	23.9036	3
3377	39171.3	80	23.899	23.899	0	0	23.899	3
3378	39193.5	80	23.899	23.899	0	0	23.899	3
3379	39215.7	80	23.899	23.899	0	0	23.899	3
3380	39237.9	80	23.899	23.899	0	0	23.899	3
3381	39260.2	80	23.899	23.899	0	0	23.899	3
3382	39282.4	80	23.899	23.899	0	0	23.899	3
3383	39304.6	80	23.899	23.899	0	0	23.899	3
3384	39326.8	80	23.899	23.899	0	0	23.899	3
3385	39349	80	23.899	23.899	0	0	23.899	3
3386	39371.3	80	23.899	23.899	0	0	23.899	3
3387	39393.5	80	26.7229	26.7229	0	0	26.5022	3
3388	39415.7	80	31.6295	31.6295	0	0	31.4087	3
3389	39437.9	80	36.536	36.536	0	0	36.3152	3
3390	39460.2	80	41.4425	41.4425	0	0	41.2217	13
3391	39482.1	77.4608	-354.24	-321.153	-33.0869	-1.12258	45.6167	13
3392	39503	73.1552	-366.501	-341.097	-25.4037	-1.2044	49.4947	13
3393	39522.7	68.7997	-367.215	-359.11	-8.10517	-1.21055	50.9056	13
3394	39541.3	64.4712	-367.897	-367.897	0	-1.19518	44.9118	13
3395	39558.6	60.1963	-368.541	-368.541	0	-1.18079	39.3007	13
3396	39574.7	55.9714	-369.143	-369.143	0	-1.16738	34.0664	13
3397	39589.7	52.17	-219.902	-219.902	0	-0.775904	29.2483	0
3398	39603.9	50.9117	24.7049	24.7049	0	-1.78E-03	24.9919	0
3399	39618.1	50.9117	20.6457	20.6457	0	0	20.9327	0
3400	39632.2	50.9117	16.5865	16.5865	0	0	16.8735	0
3401	39646.4	50.9117	12.5272	12.5272	0	0	12.8143	0
3402	39660.5	50.9117	10.1057	10.1057	0	0	10.1057	0
3403	39674.6	50.9117	22.939	22.939	0	0	22.849	0
3404	39688.8	50.9117	24.2122	24.2122	0	0	24.1221	0
3405	39702.9	50.9117	25.4853	25.4853	0	0	25.3953	0
3406	39717.1	50.9117	26.7585	26.7585	0	0	26.6685	0
3407	39731.2	50.9117	28.0317	28.0317	0	0	27.9417	0
3408	39745.4	50.9117	22.7096	22.7096	0	0	22.7096	0
3409	39759.5	50.9117	22.7096	22.7096	0	0	22.7096	0
3410	39773.6	50.9117	22.7096	22.7096	0	0	22.7096	0
3411	39787.8	50.9117	22.7096	22.7096	0	0	22.7096	0
3412	39801.9	50.9117	22.7096	22.7096	0	0	22.7096	0
3413	39816.1	50.9117	22.7096	22.7096	0	0	22.7096	0
3414	39830.2	50.9117	22.7096	22.7096	0	0	22.7096	0
3415	39844.3	50.0043	-247.18	-247.18	0	-0.704504	16.2176	0
3416	39857.7	46.3199	-370.41	-369.846	-0.563586	-1.11453	14.5462	0
3417	39870	42.3139	-370.886	-369.845	-1.04096	-1.11132	12.9594	0
3418	39881.2	38.319	-371.336	-369.846	-1.48997	-1.1084	11.5012	0
3419	39891.3	34.334	-371.759	-369.847	-1.91187	-1.10577	10.171	0
3420	39900.3	30.358	-372.156	-369.851	-2.30527	-1.10344	8.96809	0
3421	39908.2	26.3899	-372.521	-369.851	-2.66907	-1.10137	7.89208	0
3422	39915	22.4284	-372.858	-369.852	-3.00606	-1.09998	7.0736	0
3423	39920.6	18.4685	-373.17	-369.852	-3.31776	-1.09999	6.76125	0
3424	39925.2	14.5085	-373.456	-369.852	-3.60426	-1.09999	6.47556	0
3425	39928.7	10.5485	-373.712	-369.852	-3.85946	-1.09999	6.21654	0

3426	39931.1	6.58873	-364.234	-118.356	-245.878	-1.09993	5.98417	0
3427	39932.2	3.23185	-222.362	-0.793099	-221.569	-1.00362	5.80807	0
3428	39932.8	0.853204	-222.362	-0.209377	-222.153	-0.751257	5.69488	0
3429	39933	0	0	0	0	0	5.65662	0
3430	39933	0	0	0	0	0	5.65662	0
3431	39933	0	0	0	0	0	5.65662	0
3432	39933	0	0	0	0	0	5.65662	0
3433	39933	0	0	0	0	0	5.65662	0
3434	39933	0	0	0	0	0	5.65662	0
3435	39933	0	0	0	0	0	5.65662	0
3436	39933	0	0	0	0	0	5.65662	0
3437	39933	0	0	0	0	0	5.65662	0
3438	39933	0	0	0	0	0	5.65662	0
3439	39933	0	0	0	0	0.00E+00	5.65662	0
3440	39933	0	0	0	0	0	5.65662	0
3441	39933	0	0	0	0	0	5.65662	0
3442	39933	0	0	0	0	0	5.65662	0
3443	39933	0	0	0	0	0	5.65662	0
3444	39933	0	0	0	0	0	5.65662	0
3445	39933	0	0	0	0	0	5.65662	0
3446	39933.4	1.55135	397.182	397.182	0	0.421369	5.7271	0
3447	39934	3.97039	397.182	397.182	0	1.07842	5.84517	0
3448	39935.6	7.90944	397.181	397.181	0	1.13274	6.05871	0
3449	39938.3	11.9853	397.181	397.181	0	1.1319	6.30743	0
3450	39942.2	16.0582	397.181	397.181	0	1.13106	6.58419	0
3451	39947.2	20.1281	397.181	397.181	0	1.13015	6.88891	0
3452	39953.4	24.1946	397.181	397.181	0	1.12917	7.2215	0
3453	39960.7	28.2575	397.188	397.188	0	1.12813	7.58187	0
3454	39969.1	32.3088	393.943	393.943	0	1.11945	7.96916	0
3455	39978.6	36.2863	373.94	373.94	0	1.07258	8.37653	0
3456	39989.2	39.8797	328.747	328.747	0	0.937358	8.76769	0
3457	40000.7	43.0853	302.7	302.7	0	0.85594	9.13516	0
3458	40013.1	46.034	281.498	281.498	0	0.791389	9.48861	0
3459	40026.3	48.7894	265.385	265.385	0	0.743304	9.83224	0
3460	40040.2	51.3805	251.409	251.409	0	0.701076	10.1672	0
3461	40054.8	53.8335	239.155	239.155	0	0.6644	10.4947	0
3462	40070.1	56.1604	228.486	228.486	0	0.632028	10.815	0
3463	40086	58.3821	219.217	219.217	0	0.604138	11.1293	0
3464	40102.5	60.5064	210.945	210.945	0	0.57875	11.4376	0
3465	40119.6	62.554	204.785	204.785	0	0.559964	11.7421	0
3466	40137.3	64.5351	198.826	198.826	0	0.541772	12.0436	0
3467	40155.5	66.4539	193.587	193.587	0	0.525575	12.3418	0
3468	40174.2	68.3171	188.665	188.665	0	0.510425	12.6375	0
3469	40193.4	70.1266	183.883	183.883	0	0.495695	12.9302	0
3470	40213.1	71.8838	179.205	179.205	0	0.481274	13.2199	0
3471	40233.3	73.5898	174.663	174.663	0	0.467259	13.5061	0
3472	40254	75.2461	170.253	170.253	0	0.45364	13.7887	0
3473	40275.1	76.8542	165.974	165.974	0	0.440413	14.0675	0
3474	40296.5	75.6153	-366.082	-329.699	-36.383	-1.09999	13.8523	0
3475	40317	71.6553	-366.75	-348.047	-18.7037	-1.09999	13.1819	0
3476	40336.3	67.6953	-367.393	-362.231	-5.16215	-1.09999	12.5382	0
3477	40354.6	63.7354	-368.011	-368.011	0	-1.09999	11.9211	0
3478	40371.7	59.7754	-368.604	-368.604	0	-1.1	11.3307	0
3479	40387.8	55.8195	-369.166	-369.166	0	-1.09569	9.28274	0
3480	40402.7	52.1582	-242.227	-242.227	0	-0.772441	5.64519	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

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3481	40417	50.9117	2.28228	2.28228	0	-4.82E-05	2.49203	0
3482	40431.1	50.9117	-0.684083	-0.684083	0	0	-0.47433	0
3483	40445.3	50.9117	-3.65044	-3.65044	0	0	-3.44069	0
3484	40459.4	50.9117	-6.6168	-6.6168	0	0	-6.40705	-9.5
3485	40473.6	50.9117	-9.58316	-9.58316	0	0	-9.37341	-9.5
3486	40487.7	50.9117	0.253225	0.253225	0	0	0.372951	-9.5
3487	40501.9	50.9117	-1.43995	-1.43995	0	0	-1.32023	-9.5
3488	40516	50.9117	-3.13313	-3.13313	0	0	-3.0134	-9.5
3489	40530.1	50.9117	-2.63744	-2.63744	0	0	-2.72747	-9.5
3490	40544.3	50.9117	-1.36426	-1.36426	0	0	-1.45429	-9.5
3491	40558.4	50.9117	-6.65587	-6.65587	0	0	-6.65587	-9.5
3492	40572.6	50.9117	-6.65587	-6.65587	0	0	-6.65587	-9.5
3493	40586.7	50.9117	-6.65587	-6.65587	0	0	-6.65587	-9.5
3494	40600.8	50.9117	-6.65587	-6.65587	0	0	-6.65587	-9.5
3495	40615	50.9117	-6.65587	-6.65587	0	0	-6.65587	-9.5
3496	40629.1	50.9117	-5.07284	-5.07284	0	0	-5.21635	-9.5
3497	40643.3	50.9117	-3.04322	-3.04322	0	0	-3.18674	-9.5
3498	40657.4	50.9117	-1.01361	-1.01361	0	0	-1.15712	-9.5
3499	40671.6	50.9117	1.01601	1.01601	0	0	0.872494	-9.5
3500	40685.7	50.9117	3.04562	3.04562	0	0	2.90211	-9.5
3501	40699.8	50.9117	5.07524	5.07524	0	0	4.93172	-3
3502	40714	50.9117	0.489329	0.489329	0	0	0.435842	-3
3503	40728.1	50.9117	1.24576	1.24576	0	0	1.19227	-3
3504	40742.3	50.9117	2.00219	2.00219	0	0	1.9487	-3
3505	40756.4	50.9117	2.75862	2.75862	0	0	2.70513	-3
3506	40770.6	50.9117	1.72803	1.72803	0	0	1.81806	-3
3507	40784.7	51.0719	112.104	112.104	0	0.265672	0.853368	-3
3508	40799.1	53.1803	242.418	242.418	0	0.701113	1.13321	-3
3509	40814.3	55.634	230.682	230.682	0	0.665562	1.4684	-3
3510	40830	57.9736	220.922	220.922	0	0.636192	1.79753	-3
3511	40846	55.8112	-299.818	-299.818	0	-0.924151	1.493	-3
3512	40861.2	54.022	-22.9356	-22.9356	0	-0.123339	1.24704	-3
3513	40876.2	54	1.24405	1.24405	0	0	1.24405	-3
3514	40891.2	54	1.24405	1.24405	0	0	1.24405	-3
3515	40906.2	54	1.24405	1.24405	0	0	1.24405	-3
3516	40921.2	54	1.24405	1.24405	0	0	1.24405	-3
3517	40936.2	54	12.7506	12.7506	0	0	12.6706	-3
3518	40951.2	54	13.951	13.951	0	0	13.8709	-3
3519	40966.2	54	15.1513	15.1513	0	0	15.0713	-3
3520	40981.2	54	16.3517	16.3517	0	0	16.2717	-3
3521	40996.2	54	17.5521	17.5521	0	0	17.472	-3
3522	41011.2	54	12.4475	12.4475	0	0	12.4475	-3
3523	41026.2	54	12.4475	12.4475	0	0	12.4475	-3
3524	41041.2	54	1.24E+01	1.24E+01	0	0	1.24E+01	-3
3525	41056.2	54	12.4475	12.4475	0	0	12.4475	-3
3526	41071.2	54	12.4475	12.4475	0	0	12.4475	-3
3527	41086.2	54	18.078	18.078	0	0	17.5702	-3
3528	41101.2	54	25.6954	25.6954	0	0	25.1875	-3
3529	41116.2	54	33.3127	33.3127	0	0	32.8049	-3
3530	41131.2	54	40.9301	40.9301	0	0	40.4222	-3
3531	41146.2	54	48.5474	48.5474	0	0	48.0396	20
3532	41161.2	54	56.1648	56.1648	0	0.00E+00	55.657	20
3533	41176.2	54	57.3812	57.3812	0	0	56.9534	20
3534	41191.2	54	63.7982	63.7982	0	0	63.3704	20
3535	41206.2	54	70.2152	70.2152	0	0	69.7874	20

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3536	41221.2	54	73.5408	73.5408	0	0	73.6208	20
3537	41236.2	54.0012	94.2279	94.2279	0	1.00E-02	72.4206	20
3538	41251.3	55.2144	232.433	232.433	0	0.464385	72.5057	20
3539	41266.9	56.8468	225.623	225.623	0	0.443913	72.7332	20
3540	41282.8	56.9506	42.5479	42.5479	0	-0.138021	72.7478	20
3541	41298.6	56.921	67.5843	67.5843	0	0	68.0259	20
3542	41314.4	56.921	60.6022	60.6022	0	0	61.0438	20
3543	41330.2	56.921	53.6201	53.6201	0	0	54.0617	20
3544	41346	56.921	46.638	46.638	0	0	47.0796	20
3545	41361.8	56.921	50.2597	50.2597	0	0	50.6293	0
3546	41377.6	56.921	44.4164	44.4164	0	0	44.786	0
3547	41393.5	56.921	38.5731	38.5731	0	0	38.9426	0
3548	41409.3	56.921	32.7298	32.7298	0	0	33.0993	0
3549	41425.1	56.921	21.8107	21.8107	0	0	27.256	0
3550	41440.9	56.921	21.0047	21.0047	0	0	21.0047	0
3551	41456.7	56.921	21.0047	21.0047	0	0	21.0047	0
3552	41472.5	56.921	21.0047	21.0047	0	0	21.0047	0
3553	41488.3	56.921	21.0047	21.0047	0	0	21.0047	0
3554	41504	55.5539	-279.094	-279.094	0	-0.816263	20.8137	0
3555	41518.9	51.6767	-369.726	-369.726	0	-1.12918	20.2893	0
3556	41532.7	47.6116	-370.248	-369.847	-0.400681	-1.12918	19.7669	0
3557	41545.4	43.5752	-370.739	-369.845	-0.893812	-1.11344	13.839	0
3558	41556.9	39.5716	-371.2	-369.846	-1.35449	-1.11104	12.5476	0
3559	41567.4	35.5763	-371.633	-369.847	-1.78669	-1.10886	11.3646	0
3560	41576.7	31.5883	-372.034	-369.85	-2.18429	-1.10691	10.2891	0
3561	41584.9	27.607	-372.409	-369.851	-2.55737	-1.10519	9.321	0
3562	41592	23.6314	-372.757	-369.852	-2.90576	-1.10371	8.45993	0
3563	41598.1	19.6607	-373.08	-369.852	-3.22818	-1.10246	7.70564	0
3564	41603	15.6942	-373.377	-369.852	-3.52471	-1.10144	7.05781	0
3565	41606.8	11.7309	-373.644	-369.852	-3.7916	-1.10064	6.51682	0
3566	41609.5	7.77009	-373.842	-205.452	-168.389	-1.10006	6.0829	0
3567	41611	3.94152	-222.362	-0.967251	-221.395	-1.07891	5.8437	0
3568	41611.6	1.56287	-222.362	-0.383529	-221.979	-0.826548	5.72764	0
3569	41612	0	0	0	0	0	5.65662	0
3570	41612	0	0	0	0	0	5.65662	0
3571	41612	0	0	0	0	0	5.65662	0
3572	41612	0	0	0	0	0	5.65662	0
3573	41612	0	0	0	0	0	5.65662	0
3574	41612	0	0	0	0	0	5.65662	0
3575	41612	0	0	0	0	0	5.65662	0
3576	41612	0	0	0	0	0	5.65662	0
3577	41612	0	0	0	0	0	5.65662	0
3578	41612	0	0	0	0	0	5.65662	0
3579	41612	0	0	0	0	0	5.65662	0
3580	41612	0	0	0	0	0	5.65662	0
3581	41612	0	0	0	0	0	5.65662	0
3582	41612	0	0	0	0	0	5.65662	0
3583	41612	0	0	0	0	0	5.65662	0
3584	41612	0	0	0	0	0	5.65662	0
3585	41612	0	0	0	0	0	5.65662	0
3586	41612.2	0.829635	397.182	397.182	0	0.225341	5.6938	0
3587	41612.8	3.24868	397.182	397.182	0	0.882388	5.8089	0
3588	41613.9	6.69296	397.181	397.181	0	1.13301	5.98995	0
3589	41616.4	10.7696	397.181	397.181	0	1.13215	6.23029	0
3590	41619.9	14.8434	397.181	397.181	0	1.13131	6.49869	0

3591	41624.6	18.9142	397.181	397.181	0	1.13043	6.79508	0
3592	41630.4	22.9817	397.181	397.181	0	1.12947	7.11936	0
3593	41637.4	27.0457	397.185	397.185	0	1.12844	7.47145	0
3594	41645.4	31.1046	395.638	395.638	0	1.12478	7.85112	0
3595	41654.6	35.1183	388.086	388.086	0	1.10701	8.25412	0
3596	41664.9	38.8579	341.517	341.517	0	0.975758	8.65423	0
3597	41676.2	42.1573	310.044	310.044	0	0.877821	9.02699	0
3598	41688.3	45.1833	286.474	286.474	0	0.809739	8.35803	0
3599	41701.3	48.0069	269.961	269.961	0	0.763272	7.56283	0
3600	41715	50.6717	254.949	254.949	0	0.721499	6.69321	0
3601	41729.4	53.2029	242.304	242.304	0	0.687357	5.75392	0
3602	41744.5	55.6157	230.758	230.758	0	0.656259	4.74851	0
3603	41760.3	57.9301	221.103	221.103	0	0.631251	3.68101	-4
3604	41776.7	60.157	211.996	211.996	0	0.607643	2.55411	-4
3605	41793.7	62.3147	205.505	205.505	0	0.592139	1.37153	-4
3606	41811.3	64.4181	199.178	199.178	0	0.577333	0.136251	-4
3607	41829.5	66.4668	193.553	193.553	0	0.561325	-2.05E-02	-4
3608	41848.2	68.4568	188.296	188.296	0	0.545142	0.295471	-4
3609	41867.5	70.3894	183.183	183.183	0	0.529392	0.60881	-4
3610	41887.3	72.266	178.187	178.187	0	0.513985	0.919141	-4
3611	41907.7	74.0879	173.336	173.336	0	4.99E-01	1.22617	-4
3612	41928.5	75.8568	168.628	168.628	0	0.484466	1.52965	-4
3613	41949.8	77.5742	164.058	164.058	0	0.470334	1.82938	-4
3614	41971.6	79.2414	159.622	159.622	0	0.456602	2.12516	-4
3615	41993.8	80	2.2613	2.2613	0	0	2.2613	-4
3616	42016	80	2.2613	2.2613	0	0	2.2613	-4
3617	42038.2	80	2.2613	2.2613	0	0	2.2613	-4
3618	42060.4	80	2.2613	2.2613	0	0	2.2613	-4
3619	42082.6	80	2.2613	2.2613	0	0	2.2613	-4
3620	42104.9	79.7573	-130.446	-130.446	0	-0.347953	2.21764	-4
3621	42126.7	77.0223	-365.834	-323.184	-42.6506	-1.06419	1.73251	-4
3622	42147.6	73.1908	-366.493	-340.932	-25.5615	-1.06505	1.37121	-4
3623	42167.4	69.347	-367.131	-357.563	-9.56813	-1.07012	2.48438	-4
3624	42186.1	65.4854	-367.745	-367.745	0	-1.07491	3.52541	-4
3625	42203.7	61.6071	-368.332	-368.332	0	-1.07941	4.49432	-4
3626	42220.3	57.713	-368.898	-368.898	0	-1.08365	5.39123	0
3627	42235.8	53.8042	-369.442	-369.442	0	-1.08761	6.21622	0
3628	42250.2	49.8816	-369.963	-369.849	-0.11436	-1.09131	6.96933	0
3629	42263.5	45.9463	-370.457	-369.846	-0.611118	-1.0947	7.65062	0
3630	42275.7	41.9992	-370.923	-369.845	-1.07803	-1.09782	8.26023	0
3631	42286.8	38.0418	-371.366	-369.846	-1.52012	-1.09998	8.56488	0
3632	42296.9	34.0818	-371.785	-369.847	-1.93702	-1.09999	8.14743	0
3633	42305.8	30.1219	-372.178	-369.851	-2.32694	-1.1	7.75663	0
3634	42313.6	26.1619	-372.542	-369.851	-2.69011	-1.09999	7.3925	0
3635	42320.3	22.202	-372.877	-369.852	-3.02495	-1.09998	7.05502	0
3636	42325.9	18.242	-373.187	-369.852	-3.33478	-1.09998	6.74E+00	0
3637	42330.4	14.2821	-373.471	-369.852	-3.61945	-1.09999	6.46003	0
3638	42333.9	10.3221	-373.724	-369.852	-3.87172	-1.1	6.20253	0
3639	42336.2	6.36232	-351.125	-101.664	-249.461	-1.09992	5.97169	0
3640	42337.3	3.09583	-222.362	-0.759718	-221.603	-0.989188	5.80133	0
3641	42337.8	0.71718	-222.362	-0.175996	-222.186	-0.736825	5.68869	0
3642	42338	0	0	0	0	0	5.65662	0
3643	42338	0	0	0	0	0	5.65662	0
3644	42338	0	0	0	0	0	5.65662	0
3645	42338	0	0	0	0	0	5.65662	0

3646	42338	0	0	0	0	0	5.65662	0
3647	42338	0	0	0	0	0	5.65662	0
3648	42338	0	0	0	0	0	5.65662	0
3649	42338	0	0	0	0	0	5.65662	0
3650	42338	0	0	0	0	0	5.65662	0
3651	42338	0	0	0	0	0	5.65662	0
3652	42338	0	0	0	0	0	5.65662	0
3653	42338	0	0	0	0	0	5.65662	0
3654	42338	0	0	0	0	0	5.65662	0
3655	42338	0	0	0	0	0	5.65662	0
3656	42338	0	0	0	0	0	5.65662	0
3657	42338	0	0	0	0	0	5.65662	0
3658	42338	0	0	0	0	0	5.65662	0
3659	42338.4	1.68968	397.182	397.182	0	0.458943	5.73358	0
3660	42339	4.10872	397.182	397.182	0	1.11599	5.85222	0
3661	42340.7	8.1426	397.181	397.181	0	1.13269	6.07218	0
3662	42343.5	12.2183	397.181	397.181	0	1.13186	6.3225	0
3663	42347.5	16.291	397.181	397.181	0	1.13101	6.60087	0
3664	42352.5	20.3607	397.181	397.181	0	1.13009	6.90718	0
3665	42358.8	24.427	397.181	397.181	0	1.12911	7.24136	0
3666	42366.1	28.4897	397.189	397.189	0	1.12807	7.60332	0
3667	42374.6	32.5389	393.619	393.619	0	1.11843	7.99199	0
3668	42384.2	36.5052	371.179	371.179	0	1.06432	8.39974	0
3669	42394.8	40.071	326.699	326.699	0	0.930174	8.78913	0
3670	42406.4	43.2605	301.313	301.313	0	0.851813	9.15574	0
3671	42418.8	46.1963	280.55	280.55	0	0.788557	9.50849	0
3672	42432.1	48.9418	264.493	264.493	0	0.740643	9.85163	0
3673	42446	51.5244	250.69	250.69	0	0.698925	10.1861	0
3674	42460.7	53.9698	238.474	238.474	0	0.662362	10.5132	0
3675	42476	56.2902	227.945	227.945	0	0.630399	10.8331	0
3676	42491.9	58.4998	218.726	218.726	0	0.59467	13.8985	0
3677	42508.5	60.5516	210.809	210.809	0	0.549166	21.5	0
3678	42525.6	62.4536	205.087	205.087	0	0.509829	29.3283	0
3679	42543.2	64.2154	199.787	199.787	0	0.471117	37.3659	0
3680	42561.2	65.8399	195.209	195.209	0	0.433857	45.5949	20
3681	42579.7	67.3338	191.263	191.263	0	0.39803	53.999	20
3682	42598.6	68.6998	187.655	187.655	0	0.362727	62.5616	20
3683	42617.9	69.9398	184.379	184.379	0	0.327979	71.2666	20
3684	42637.5	71.0731	181.363	181.363	0	0.308673	74.9076	20
3685	42657.4	72.1673	178.45	178.45	0	0.299693	75.0891	20
3686	42677.6	73.2297	175.621	175.621	0	0.29097	75.2673	20
3687	42698	74.2611	172.875	172.875	0	0.282495	75.4421	20
3688	42718.8	75.2625	170.21	170.21	0	0.274264	75.6135	20
3689	42739.8	76.2347	167.623	167.623	0	0.266272	75.7816	20
3690	42761.2	77.1786	165.111	165.111	0	0.258508	75.9463	20
3691	42782.7	78.0923	162.68	162.68	0	0.244802	78.2412	20
3692	42804.5	79.0445	160.146	160.146	0	0.286819	61.2134	20
3693	42826.6	80	41.3264	41.3264	0	5.59E-03	42.1945	20
3694	42848.9	80	23.5042	23.5042	0	0	24.3877	20
3695	42871.1	80	1.36685	1.36685	0	0	2.25002	-20
3696	42893.3	80	-18.2592	-18.2592	0	0	-17.376	-20
3697	42915.5	80	-38.9526	-38.9526	0	0	-38.0544	-20
3698	42937.8	80	-46.4965	-46.4965	0	0	-46.4815	-20
3699	42960	80	-46.8299	-46.8299	0	0	-46.8149	-20
3700	42982.2	80	-47.1633	-47.1633	0	0	-47.1483	-20

3701	43004.4	80	-47.1963	-47.1963	0	0	-47.1963	-20
3702	43026.6	80	-47.1963	-47.1963	0	0	-47.1963	-20
3703	43048.9	80	-47.1963	-47.1963	0	0	-47.1963	-20
3704	43071.1	80	-47.1963	-47.1963	0	0	-47.1963	-20
3705	43093.3	80	-47.1963	-47.1963	0	0	-47.1963	-20
3706	43115.5	80	-46.8735	-46.8735	0	0	-47.1963	-20
3707	43137.8	80	-35.5885	-35.5885	0	0	-36.0963	-20
3708	43160	80	-24.3035	-24.3035	0	0	-24.8114	-20
3709	43182.2	80	-13.0186	-13.0186	0	0	-13.5264	-20
3710	43204.4	80	-1.73358	-1.73358	0	0	-2.24141	3
3711	43226.6	80	9.55139	9.55139	0	0	9.04357	3
3712	43248.9	80	20.8364	20.8364	0	0	20.3285	3
3713	43271.1	80	23.899	23.899	0	0	23.899	3
3714	43293.3	80	23.899	23.899	0	0	23.899	3
3715	43315.5	80	27.7603	27.7603	0	0	27.7363	3
3716	43337.8	80	28.2938	28.2938	0	0	28.2697	3
3717	43360	80	28.8273	28.8273	0	0	28.8032	3
3718	43382.2	80	27.26	27.26	0	0	27.26	3
3719	43404.4	80	27.26	27.26	0	0	27.26	3
3720	43426.6	80	27.26	27.26	0	0	27.26	3
3721	43448.9	80	27.26	27.26	0	0	27.26	3
3722	43471.1	80	27.26	27.26	0	0	27.26	3
3723	43493.3	80	27.26	27.26	0	0	27.26	3
3724	43515.5	80	27.26	27.26	0	0	27.26	3
3725	43537.8	80	27.26	27.26	0	0	27.26	3
3726	43559.9	79.3764	-182.982	-182.982	0	-0.570692	26.7474	3
3727	43581.6	75.9655	-366.02	-328.077	-37.943	-1.13126	24.7141	3
3728	43602.1	71.906	-366.708	-346.885	-19.8231	-1.12209	20.8588	3
3729	43621.5	67.8762	-367.364	-361.72	-5.64424	-1.11702	18.4503	3
3730	43639.8	63.864	-367.991	-367.991	0	-1.11224	16.1728	0
3731	43657	59.8686	-368.59	-368.59	0	-1.10776	14.0255	0
3732	43673.1	55.8885	-369.157	-369.157	0	-1.10398	12.1559	0
3733	43688.1	51.9197	-369.694	-369.694	0	-1.10111	10.6253	0
3734	43701.9	47.9591	-370.204	-369.847	-0.356814	-1.09999	9.72733	0
3735	43714.7	43.9991	-370.69	-369.845	-0.84447	-1.09999	9.24311	0
3736	43726.4	40.0391	-371.15	-369.846	-1.30404	-1.1	8.78555	0
3737	43736.9	36.0792	-371.579	-369.846	-1.73257	-1.09999	8.35465	0
3738	43746.4	32.1192	-371.981	-369.849	-2.13168	-1.09998	7.95041	0
3739	43754.8	28.1593	-372.358	-369.851	-2.50677	-1.09998	7.57283	0
3740	43762.1	24.1993	-372.71	-369.852	-2.85855	-1.09999	7.2219	0
3741	43768.2	20.2393	-373.037	-369.852	-3.18486	-1.09999	6.89764	0
3742	43773.3	16.2794	-373.334	-369.852	-3.48204	-1.09999	6.60003	0
3743	43777.3	12.3194	-373.604	-369.852	-3.75169	-1.09998	6.32908	0
3744	43780.1	8.35951	-373.823	-248.907	-124.916	-1.09996	6.08479	0
3745	43781.9	4.40004	-237.511	-1.07977	-236.432	-1.09981	5.86718	0
3746	43782.5	1.91693	-222.362	-0.470416	-221.892	-0.864113	5.74431	0
3747	43783	0	0	0	0	0	5.65662	0
3748	43783	0	0	0	0	0	5.65662	0
3749	43783	0	0	0	0	0	5.65662	0
3750	43783	0	0	0	0	0	5.65662	0
3751	43783	0	0	0	0	0	5.65662	0
3752	43783	0	0	0	0	0	5.65662	0
3753	43783	0	0	0	0	0	5.65662	0
3754	43783	0	0	0	0	0	5.65662	0
3755	43783	0	0	0	0	0	5.65662	0

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3756	43783	0	0	0	0	0	5.65662	0
3757	43783	0	0	0	0	0	5.65662	0
3758	43783	0	0	0	0	0	5.65662	0
3759	43783	0	0	0	0	0	5.65662	0
3760	43783	0	0	0	0	0	5.65662	0
3761	43783	0	0	0	0	0	5.65662	0
3762	43783	0	0	0	0	0	5.65662	0
3763	43783	0	0	0	0	0	5.65662	0
3764	43783.1	0.469558	397.182	397.182	0	0.127539	5.67752	0
3765	43783.7	2.8886	397.182	397.182	0	0.784586	5.79114	0
3766	43784.7	6.08584	397.181	397.181	0	1.13314	5.95657	0
3767	43786.9	10.1629	397.181	397.181	0	1.13227	6.19274	0
3768	43790.3	14.2372	397.181	397.181	0	1.13144	6.45697	0
3769	43794.8	18.3085	397.181	397.181	0	1.13056	6.74919	0
3770	43800.5	22.3765	397.181	397.181	0	1.12961	7.06933	0
3771	43807.3	26.441	397.184	397.184	0	1.1286	7.41729	0
3772	43815.2	30.5017	396.486	396.486	0	1.12723	7.79296	0
3773	43824.2	34.5249	390.825	390.825	0	1.10964	8.19281	0
3774	43834.3	38.3322	348.146	348.146	0	0.99553	8.59654	0
3775	43845.5	41.6854	313.779	313.779	0	0.888929	8.97254	0
3776	43857.5	44.7442	289.57	289.57	0	0.81687	9.33219	0
3777	43870.3	47.5784	272.466	272.466	0	0.764435	9.67963	0
3778	43883.9	50.2407	257.103	257.103	0	0.719143	9.67597	0
3779	43898.2	52.7678	244.478	244.478	0	0.687298	7.95509	0
3780	43913.2	55.1842	232.558	232.558	0	0.657486	6.1313	0
3781	43928.7	54.8052	-369.307	-369.307	0	-1.08039	3.85639	0
3782	43943.4	51.5711	-176.059	-176.059	0	-0.569082	1.30807	0
3783	43957.6	50.9117	-0.957579	-0.957579	0	0	-0.814064	-6.5
3784	43971.7	50.9117	-2.98719	-2.98719	0	0	-2.84368	-6.5
3785	43985.9	50.9117	-5.01681	-5.01681	0	0	-4.87329	-6.5
3786	44000	50.9117	-7.04642	-7.04642	0	0	-6.90291	-6.5
3787	44014.2	50.9117	-9.07604	-9.07604	0	0	-8.93252	-6.5
3788	44028.3	50.9117	3.16648	3.16648	0	0	3.07645	-6.5
3789	44042.4	50.9117	4.43966	4.43966	0	0	4.34964	-6.5
3790	44056.6	50.9117	5.71285	5.71285	0	0	5.62282	-6.5
3791	44070.7	50.9117	6.98603	6.98603	0	0.00E+00	6.896	-6.5
3792	44084.9	50.9117	8.25922	8.25922	0	0	8.16919	-6.5
3793	44099	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3794	44113.2	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3795	44127.3	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3796	44141.4	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3797	44155.6	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3798	44169.7	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3799	44183.9	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3800	44198	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3801	44212.1	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3802	44226.3	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3803	44240.4	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3804	44254.6	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3805	44268.7	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3806	44282.9	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3807	44297	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3808	44311.1	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3809	44325.3	50.9117	1.3296	1.3296	0	0	1.37959	-6.5
3810	44339.4	50.9117	-2.72526	-2.72526	0	0	0.790366	-6.5

010409

3811	44353.6	50.9117	7.07381	7.07381	0	0	7.07381	-6.5
3812	44367.7	50.9117	7.07381	7.07381	0	0	7.07381	-6.5
3813	44381.9	50.9117	7.07381	7.07381	0	0	7.07381	-6.5
3814	44396	50.9117	7.74849	7.74849	0	0	7.65847	-6.5
3815	44410.1	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3816	44424.3	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3817	44438.4	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3818	44452.6	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3819	44466.7	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3820	44480.8	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3821	44495	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3822	44509.1	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3823	44523.3	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3824	44537.4	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3825	44551.6	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3826	44565.7	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3827	44579.8	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3828	44594	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3829	44608.1	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3830	44622.3	50.9117	2.61744	2.61744	0	0	2.61744	-6.5
3831	44636.4	50.9117	-4.28864	-4.28864	0	0	-4.19861	-6.5
3832	44650.6	50.9117	-5.56182	-5.56182	0	0	-5.47179	-6.5
3833	44664.7	50.9117	-6.835	-6.835	0	0	-6.74498	-6.5
3834	44678.8	50.9117	-8.10819	-8.10819	0	0	-8.01816	-6.5
3835	44693	50.9117	-8.9725	-8.9725	0	0	-8.87444	-6.5
3836	44707.1	51.3878	168.292	168.292	0	0.459871	-9.92404	-6.5
3837	44721.7	53.8603	239.02	239.02	0	0.722379	-9.59377	-6.5
3838	44737.1	56.391	227.524	227.524	0	0.687474	-9.24498	-6.5
3839	44753.1	58.8076	217.443	217.443	0	0.657129	-8.90175	-6.5
3840	44769.7	61.0901	209.189	209.189	0	0.614419	-2.61773	-6.5
3841	44787	63.239	202.725	202.725	0	0.579728	2.86411	-6.5
3842	44804.8	65.2575	196.747	196.747	0	0.543841	9.20834	-6.5
3843	44823.2	67.1519	191.743	191.743	0	0.510415	15.7235	-6.5
3844	44842.1	68.9495	186.995	186.995	0	0.486675	19.1555	7
3845	44861.5	70.6436	182.507	182.507	0	0.456091	25.211	7
3846	44881.4	72.2284	178.287	178.287	0	0.425929	31.3888	7
3847	44901.6	73.7057	174.354	174.354	0	0.396274	37.6794	7
3848	44922.3	75.0859	170.679	170.679	0	0.375981	41.0006	7
3849	44943.4	76.3273	85.263	85.263	0	0.165268	41.2151	7
3850	44964.6	76.3675	41.2221	41.2221	0	0	41.2221	7
3851	44985.8	76.3675	37.9618	37.9618	0	0	38.0018	7
3852	45007	76.3675	37.113	37.113	0	0	37.153	7
3853	45028.2	76.3675	36.2642	36.2642	0	0	36.3043	7
3854	45049.4	76.4623	119.28	119.28	0	0.204492	35.6369	7
3855	45070.8	77.7446	163.605	163.605	0	0.370353	35.8615	7
3856	45092.6	79.0574	160.112	160.112	0	0.359542	36.0944	7
3857	45114.5	77.549	-335.82	-320.744	-15.0755	-1.03005	32.9668	7
3858	45135.5	73.438	-366.45	-339.786	-26.6642	-1.14496	29.0164	7
3859	45155.3	69.3331	-367.132	-357.602	-9.52986	-1.1361	25.2725	7
3860	45174	65.2591	-367.78	-367.78	0	-1.12774	21.7376	0
3861	45191.6	61.2144	-368.39	-368.39	0	-1.11987	18.4097	0
3862	45208	57.1971	-368.97	-368.97	0	-1.11251	15.2863	0
3863	45223.3	53.2053	-369.521	-369.521	0	-1.11E+00	12.3659	0
3864	45237.6	49.2372	-370.044	-369.848	-0.195493	-1.09999	9.8893	0
3865	45250.7	45.2772	-370.54	-369.845	-0.694625	-1.1	9.39648	0

3866	45262.7	41.3172	-371.003	-369.845	-1.15748	-1.09999	8.93032	0
3867	45273.7	37.3573	-371.44	-369.846	-1.5942	-1.09998	8.49082	0
3868	45283.5	33.3973	-371.853	-369.848	-2.00489	-1.09998	8.07797	0
3869	45292.2	29.4374	-372.241	-369.851	-2.38959	-1.09999	7.69178	0
3870	45299.8	25.4774	-372.603	-369.852	-2.7517	-1.09999	7.33225	0
3871	45306.4	21.5175	-372.934	-369.852	-3.08207	-1.09999	6.99938	0
3872	45311.8	17.5575	-373.238	-369.852	-3.3863	-1.09998	6.69317	0
3873	45316.1	13.5975	-373.517	-369.852	-3.6654	-1.09999	6.41362	0
3874	45319.3	9.63758	-373.761	-343.133	-30.6278	-1.09999	6.16072	0
3875	45321.4	5.67792	-311.499	-51.2064	-260.293	-1.09988	5.9345	0
3876	45322.4	2.68466	-222.362	-0.658816	-221.704	-0.945564	5.78118	0
3877	45322.9	0.306006	-222.362	-7.51E-02	-222.287	-0.693202	5.6702	0
3878	45323	0	0	0	0	0	5.65662	0
3879	45323	0	0	0	0	0	5.65662	0
3880	45323	0	0	0	0	0	5.65662	0
3881	45323	0	0	0	0	0	5.65662	0
3882	45323	0	0	0	0	0	5.65662	0
3883	45323	0	0	0	0	0	5.65662	0
3884	45323	0	0	0	0	0	5.65662	0
3885	45323	0	0	0	0	0	5.65662	0
3886	45323	0	0	0	0	0	5.65662	0
3887	45323	0	0	0	0	0	5.65662	0
3888	45323	0	0	0	0	0	5.65662	0
3889	45323	0	0	0	0	0	5.65662	0
3890	45323	0	0	0	0	0	5.65662	0
3891	45323	0	0	0	0	0	5.65662	0
3892	45323	0	0	0	0	0	5.65662	0
3893	45323	0	0	0	0	0	5.65662	0
3894	45323	0	0	0	0	0	5.65662	0
3895	45323.5	2.10784	397.182	397.182	0	0.57252	5.75338	0
3896	45324.2	4.76941	397.182	397.182	0	1.13342	5.88635	0
3897	45326.1	8.84735	397.181	397.181	0	1.13254	6.11344	0
3898	45329.1	12.9225	397.181	397.181	0	1.13171	6.36862	0
3899	45333.3	16.9948	397.181	397.181	0	1.13085	6.65182	0
3900	45338.5	21.0639	397.181	397.181	0	1.12993	6.96296	0
3901	45345	25.1296	397.181	397.181	0	1.12893	7.30195	0
3902	45352.5	29.1916	397.19	397.19	0	1.12788	7.66869	0
3903	45361.2	33.2334	392.642	392.642	0	1.11536	8.06145	0
3904	45371	37.1566	362.967	362.967	0	1.03978	8.46925	0
3905	45381.8	40.6419	322.038	322.038	0	0.913536	8.85348	0
3906	45393.5	43.785	297.161	297.161	0	0.839457	9.2177	0
3907	45406.1	46.6833	277.702	277.702	0	0.780058	9.56842	0
3908	45419.4	49.3992	261.819	261.819	0	0.732663	9.91003	0
3909	45433.5	51.9565	248.531	248.531	0	0.692465	10.2432	0
3910	45448.3	54.3794	236.428	236.428	0	0.656237	10.569	0
3911	45463.7	56.6804	226.317	226.317	0	0.625502	10.8878	0
3912	45479.8	58.8792	217.144	217.144	0	0.597897	11.2007	0
3913	45496.4	60.9834	209.51	209.51	0	0.574375	11.5079	0
3914	45513.6	63.0155	203.397	203.397	0	0.555727	11.8118	0
3915	45531.4	64.9817	197.489	197.489	0	0.537669	12.1124	0
3916	45549.7	66.8873	192.442	192.442	0	0.522052	12.4101	0
3917	45568.6	68.7381	187.553	187.553	0	0.507	12.7051	0
3918	45587.9	70.5355	182.794	182.794	0	0.492341	12.9972	0
3919	45607.7	72.2807	178.148	178.148	0	0.478014	13.286	0
3920	45628.1	73.9752	173.637	173.637	0	0.464091	13.5714	0

3921	45648.8	75.6203	169.258	169.258	0	0.450564	13.8532	0
3922	45670.1	77.0734	-365.819	-322.947	-42.8723	-3.74E-01	9.2727	0
3923	45690.9	73.2095	-366.484	-340.845	-25.6389	-1.06196	0.314127	0
3924	45710.7	69.4299	-367.112	-357.328	-9.78362	-1.03918	-8.18348	0
3925	45729.5	65.7302	-367.701	-367.701	0	-1.01758	-16.2316	-18
3926	45747.3	62.1061	-368.252	-368.252	0	-0.997144	-23.8409	-18
3927	45764	58.5535	-368.773	-368.773	0	-0.977866	-31.0217	-18
3928	45779.8	55.0593	-369.275	-369.275	0	-0.963459	-36.4944	-18
3929	45794.6	51.835	-254.152	-254.152	0	-0.668473	-42.1149	-18
3930	45808.8	50.9117	-43.2412	-43.2412	0	0	-43.3314	-18
3931	45823	50.9117	-41.979	-41.979	0	0	-42.0674	-18
3932	45837.1	50.9117	-40.7412	-40.7412	0	0	-40.8279	-18
3933	45851.3	50.9117	-40.7321	-40.7321	0	0	-44.3337	-18
3934	45865.4	50.9117	-39.6493	-39.6493	0	0	-39.7267	-18
3935	45879.5	50.9117	-32.2304	-32.2304	0	0	-32.3119	-18
3936	45893.7	50.9117	-31.0785	-31.0785	0	0	-31.16	-18
3937	45907.8	50.9117	-29.9266	-29.9266	0	0	-30.008	-18
3938	45922	50.9117	-28.7646	-28.7646	0	0	-28.8546	-18
3939	45936.1	50.9117	-27.4914	-27.4914	0	0	-27.5815	-18
3940	45950.3	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3941	45964.4	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3942	45978.5	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3943	45992.7	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3944	46006.8	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3945	46021	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3946	46035.1	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3947	46049.2	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3948	46063.4	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3949	46077.5	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3950	46091.7	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3951	46105.8	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3952	46120	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3953	46134.1	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3954	46148.2	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3955	46162.4	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3956	46176.5	50.9117	-32.9302	-32.9302	0	0	-32.9302	-18
3957	46190.7	50.9117	-38.2409	-38.2409	0	0	-38.111	-18
3958	46204.8	50.9117	-39.9426	-39.9426	0	0	-39.8308	-18
3959	46219	50.9117	-41.3871	-41.3871	0	0	-41.2934	-18
3960	46233.1	50.9117	-41.1586	-41.1586	0	0	-41.0866	-18
3961	46247.2	50.9117	-42.1771	-42.1771	0	0	-42.1051	-18
3962	46261.4	51.6901	181.618	181.618	0	0.588055	-40.7673	-18
3963	46276.2	54.5056	235.797	235.797	0	0.796112	-38.2044	-18
3964	46291.7	57.268	223.866	223.866	0	0.748121	-33.802	-18
3965	46308	59.8631	213.039	213.039	0	0.696745	-26.9622	-18
3966	46324.9	60.6512	-368.48	-368.48	0	-1.00475	-21.44	-18
3967	46341.2	56.9995	-369.003	-369.003	0	-1.0227	-15.7659	0
3968	46356.5	53.2851	-369.515	-369.515	0	-1.03953	-10.4658	0
3969	46370.8	49.5123	-370.013	-369.849	-0.164347	-1.05522	-5.54414	0
3970	46384	45.685	-370.493	-369.846	-0.647192	-1.06974	-1.00545	0
3971	46396.2	41.8074	-370.949	-369.845	-1.10354	-1.0833	3.22151	0
3972	46407.3	37.8821	-371.386	-369.846	-1.54036	-1.09604	7.18148	0
3973	46417.2	33.9239	-371.8	-369.848	-1.95268	-1.09999	8.13133	0
3974	46426.1	29.9639	-372.193	-369.851	-2.34134	-1.1	7.7416	0
3975	46433.9	26.004	-372.556	-369.851	-2.70462	-1.09999	7.37853	0

3976	46440.6	22.044	-372.89	-369.852	-3.03812	-1.09998	7.04211	0
3977	46446.1	18.0841	-373.199	-369.852	-3.34666	-1.09998	6.73235	0
3978	46450.6	14.1241	-373.482	-369.852	-3.63004	-1.09999	6.44925	0
3979	46454	10.1641	-373.732	-369.852	-3.88028	-1.1	6.19281	0
3980	46456.2	6.2044	-341.982	-90.0215	-251.96	-1.09991	5.96304	0
3981	46457.3	3.00096	-222.362	-0.736437	-221.626	-0.979122	5.79666	0
3982	46457.8	0.622307	-222.362	-0.152715	-222.21	-0.72676	5.6844	0
3983	46458	0	0	0	0	0	5.65662	0
3984	46458	0	0	0	0	0	5.65662	0
3985	46458	0	0	0	0	0	5.65662	0
3986	46458	0	0	0	0	0	5.65662	0
3987	46458	0	0	0	0	0	5.65662	0
3988	46458	0	0	0	0	0	5.65662	0
3989	46458	0	0	0	0	0	5.65662	0
3990	46458	0	0	0	0	0	5.65662	0
3991	46458	0	0	0	0	0	5.65662	0
3992	46458	0	0	0	0	0	5.65662	0
3993	46458	0	0	0	0	0	5.65662	0
3994	46458	0	0	0	0	0	5.65662	0
3995	46458	0	0	0	0	0	5.65662	0
3996	46458	0	0	0	0	0	5.65662	0
3997	46458	0	0	0	0	0	5.65662	0
3998	46458	0	0	0	0	0	5.65662	0
3999	46458	0	0	0	0	0	5.65662	0
4000	46458.4	1.78617	397.182	397.182	0	0.485149	5.73813	0
4001	46459	4.22704	397.182	397.182	0	1.13354	5.85828	0
4002	46460.8	8.30522	397.181	397.181	0	1.13265	6.08162	0
4003	46463.6	12.3808	397.181	397.181	0	1.13182	6.33307	0
4004	46467.6	16.4534	397.181	397.181	0	1.13097	6.61255	0
4005	46472.8	20.523	397.181	397.181	0	1.13006	6.91998	0
4006	46479	24.5892	397.181	397.181	0	1.12907	7.25527	0
4007	46486.4	28.6517	397.189	397.189	0	1.12803	7.61833	0
4008	46495	32.6994	393.394	393.394	0	1.11772	8.00797	0
4009	46504.6	36.6566	369.271	369.271	0	1.05862	8.41582	0
4010	46515.3	40.2035	325.508	325.508	0	0.925658	8.80402	0
4011	46526.9	43.3823	300.349	300.349	0	0.848943	9.17009	0
4012	46539.4	46.3076	279.899	279.899	0	0.785503	9.90427	0
4013	46552.6	49.0393	263.923	263.923	0	0.736129	10.8311	0
4014	46566.6	51.6032	250.296	250.296	0	0.693141	11.781	0
4015	46581.3	53.9995	238.325	238.325	0	0.640044	18.0452	0
4016	46596.6	56.2351	228.175	228.175	0	0.605669	19.581	0
4017	46612.5	58.3572	219.322	219.322	0	0.575327	21.1574	2
4018	46629	60.3728	211.347	211.347	0	0.547038	22.772	2
4019	46646	62.3038	205.538	205.538	0	0.532864	21.8384	2
4020	46663.6	64.1849	199.879	199.879	0	0.513345	22.8994	2
4021	46681.7	65.9994	194.787	194.787	0	0.496722	23.4944	2
4022	46700.2	67.7603	190.136	190.136	0	0.482408	23.7723	2
4023	46719.3	69.4705	185.619	185.619	0	0.468495	24.0472	2
4024	46738.8	71.1314	181.208	181.208	0	0.454907	24.319	2
4025	46758.8	72.7439	176.915	176.915	0	0.441666	24.5873	2
4026	46779.2	74.3095	172.746	172.746	0	0.4288	24.8521	2
4027	46800.1	75.8295	168.701	168.701	0	0.416302	25.1131	2
4028	46821.4	77.3052	164.774	164.774	0	0.404161	25.3703	2
4029	46843	78.7607	160.901	160.901	0	0.401213	22.5109	2
4030	46865.1	79.9955	31.5831	31.5831	0	9.78E-02	21.9372	2

4031	46887.3	80	21.1018	21.1018	0	0	21.1378	2
4032	46909.6	80	20.8079	20.8079	0	0	20.8079	2
4033	46931.8	80	20.8079	20.8079	0	0	20.8079	2
4034	46954	80	20.8079	20.8079	0	0	20.8079	2
4035	46976.2	80	20.8079	20.8079	0	0	20.8079	2
4036	46998.5	80	20.8079	20.8079	0	0	20.8079	2
4037	47020.7	80	20.8079	20.8079	0	0	20.8079	2
4038	47042.9	80	20.8079	20.8079	0	0	20.8079	2
4039	47065.1	80	20.8079	20.8079	0	0	20.8079	2
4040	47087.3	80	20.8079	20.8079	0	0	20.8079	2
4041	47109.6	80	20.8079	20.8079	0	0	20.8079	2
4042	47131.8	80	19.3885	19.3885	0	0	19.5431	2
4043	47154	80	15.9539	15.9539	0	0	16.1085	2
4044	47176.2	80	12.5194	12.5194	0	0	12.6739	2
4045	47198.5	80	13.8727	13.8727	0	0	13.9945	-5
4046	47220.7	80	11.1656	11.1656	0	0	11.2874	-5
4047	47242.9	80	8.45856	8.45856	0	0	8.58038	-5
4048	47265.1	80	3.75343	3.75343	0	0	3.75343	-5
4049	47287.3	79.9077	-99.1058	-99.1058	0	-0.261688	3.73682	-5
4050	47309.3	77.4605	-365.757	-321.154	-44.6027	-1.05483	3.30151	-5
4051	47330.2	73.6138	-366.422	-338.972	-27.4502	-1.06851	2.63786	-5
4052	47350.2	69.7672	-367.064	-356.375	-10.6887	-1.06852	1.99936	-5
4053	47369	65.9206	-367.676	-367.248	-0.428064	-1.06851	1.38603	-5
4054	47386.8	62.0739	-368.261	-368.261	0	-1.06851	0.797839	-5
4055	47403.5	58.2341	-368.823	-368.823	0	-1.06149	-2.1864	-5
4056	47419.1	54.4156	-369.36	-369.36	0	-1.06002	-3.23269	-5
4057	47433.8	51.3972	-154.792	-154.792	0	-0.492295	-4.11662	-5
4058	47447.9	50.9117	-3.7912	-3.7912	0	0	-3.8286	-5
4059	47462.1	50.9117	-3.21238	-3.21238	0	0	-3.2564	-5
4060	47476.2	50.9117	-5.34979	-5.34979	0	0	-5.34979	-5
4061	47490.4	50.9117	-5.34979	-5.34979	0	0	-5.34979	-5
4062	47504.5	50.9117	-5.34979	-5.34979	0	0	-5.34979	-5
4063	47518.7	50.9117	7.89819	7.89819	0	0	7.80816	-5
4064	47532.8	50.9117	9.17137	9.17137	0	0	9.08134	-5
4065	47546.9	50.9117	10.4446	10.4446	0	0	10.3545	-5
4066	47561.1	50.9117	11.7177	11.7177	0	0	11.6277	-5
4067	47575.2	50.9117	12.9909	12.9909	0	0	12.9009	-5
4068	47589.4	50.9117	7.25409	7.25409	0	0	7.25409	-5
4069	47603.5	50.9117	7.25409	7.25409	0	0	7.25409	-5
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4071	47631.8	50.9117	7.25409	7.25409	0	0	7.25409	-5
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4073	47660.1	50.9117	7.29558	7.29558	0	0	7.25409	-5
4074	47674.2	50.9117	8.85682	8.85682	0	0	8.74642	-5
4075	47688.4	50.9117	10.4181	10.4181	0	0	10.3077	-5
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4077	47716.6	50.9117	13.5405	13.5405	0	0	13.4302	-5
4078	47730.8	50.9117	15.1018	15.1018	0	0	14.9914	0
4079	47744.9	50.9117	16.663	16.663	0	0	16.5526	0
4080	47759.1	50.9117	11.8259	11.8259	0	0	11.8056	0
4081	47773.2	50.9117	12.114	12.114	0	0	12.0936	0
4082	47787.4	50.9117	12.4021	12.4021	0	0	12.3817	0
4083	47801.5	50.9117	12.4917	12.4917	0	0	12.5817	0
4084	47815.6	50.9117	11.2185	11.2185	0	0	1.13E+01	0
4085	47829.8	50.9358	64.4547	64.4547	0	0.100791	10.1089	0

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4086	47844.1	52.451	-369.623	-369.623	0	9.16E-02	10.3089	0
4087	47858.1	48.4911	-370.138	-369.848	-0.289662	-1.10E+00	9.79441	0
4088	47871	44.5311	-370.627	-369.845	-0.7824	-1.1	9.30661	0
4089	47882.9	40.5711	-371.09	-369.845	-1.2446	-1.09999	8.84547	0
4090	47893.6	36.6112	-371.521	-369.846	-1.67497	-1.09999	8.41099	0
4091	47903.2	32.6512	-371.928	-369.849	-2.07889	-1.09998	8.00317	0
4092	47911.7	28.6913	-372.309	-369.851	-2.45799	-1.09999	7.622	0
4093	47919.1	24.7313	-372.666	-369.852	-2.81429	-1.1	7.2675	0
4094	47925.5	20.7713	-372.995	-369.852	-3.14319	-1.09999	6.93965	0
4095	47930.7	16.8114	-373.294	-369.852	-3.44256	-1.09998	6.63846	0
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