

4381	47457.4	50.9117	-4.16999	-4.16999	0	0	-4.2153	-5
4382	47471.6	50.9117	-6.26485	-6.26485	0	0	-6.26485	-5
4383	47485.7	50.9117	-6.26485	-6.26485	0	0	-6.26485	-5
4384	47499.9	50.9117	-6.26485	-6.26485	0	0	-6.26485	-5
4385	47514	50.9117	7.6127	7.6127	0	0	7.51531	-5
4386	47528.1	50.9117	8.98997	8.98997	0	0	8.89258	-5
4387	47542.3	50.9117	10.3672	10.3672	0	0	10.2699	-5
4388	47556.4	50.9117	11.7445	11.7445	0	0	11.6471	-5
4389	47570.6	50.9117	13.1218	13.1218	0	0	13.0244	-5
4390	47584.7	50.9117	7.36943	7.36943	0	0	7.36943	-5
4391	47598.9	50.9117	7.36943	7.36943	0	0	7.36943	-5
4392	47613	50.9117	7.36943	7.36943	0	0	7.36943	-5
4393	47627.1	50.9117	7.36943	7.36943	0	0	7.36943	-5
4394	47641.3	50.9117	7.36943	7.36943	0	0	7.36943	-5
4395	47655.4	50.9117	7.36943	7.36943	0	0	7.36943	-5
4396	47669.6	50.9117	8.54711	8.54711	0	0	8.42768	-5
4397	47683.7	50.9117	10.236	10.236	0	0	10.1166	-5
4398	47697.8	50.9117	11.9249	11.9249	0	0	11.8054	-5
4399	47712	50.9117	13.6137	13.6137	0	0	13.4943	-5
4400	47726.1	50.9117	15.3026	15.3026	0	0	15.1832	-5
4401	47740.3	50.9117	16.9915	16.9915	0	0	16.8721	0
4402	47754.4	50.9117	18.6804	18.6804	0	0	18.561	0
4403	47768.6	50.9117	12.524	12.524	0	0	12.502	0
4404	47782.7	50.9117	12.8357	12.8357	0	0	12.8136	0
4405	47796.8	50.9117	13.1473	13.1473	0	0	13.1252	0
4406	47811	50.9117	12.1114	12.1114	0	0	12.2088	0
4407	47825.1	50.9117	10.7342	10.7342	0	0	10.8316	0
4408	47839.3	51.6744	149.964	149.964	0	0.376399	10.5571	0
4409	47853.6	49.8048	-397.964	-221.909	-176.055	-1.1	10.3066	0
4410	47866.9	45.8449	-398.475	-221.907	-176.567	-1.09999	9.79568	0
4411	47879.1	41.8849	-398.957	-221.907	-177.049	-1.09999	9.31142	0
4412	47890.2	37.9249	-399.413	-221.908	-177.506	-1.09999	8.85381	0
4413	47900.1	33.965	-399.845	-221.909	-177.937	-1.09999	8.42286	0
4414	47909	30.005	-400.252	-221.911	-178.341	-1.1	8.01857	0
4415	47916.8	26.045	-400.63	-221.911	-178.719	-1.09999	7.64094	0
4416	47923.5	22.0851	-400.978	-221.911	-179.067	-1.09999	7.28997	0
4417	47929.1	18.1251	-401.301	-221.911	-179.39	-1.09998	6.96565	0
4418	47933.6	14.1652	-401.599	-221.911	-179.688	-1.09999	6.66799	0
4419	47936.9	10.2052	-401.866	-221.911	-179.955	-1.1	6.397	0
4420	47939.2	6.24539	-370.299	-55.8262	-314.473	-1.09993	6.15266	0
4421	47940.3	3.02556	-239.203	-0.445485	-238.758	-0.981748	5.97364	0
4422	47940.8	0.646911	-239.203	-9.53E-02	-239.108	-0.729373	5.85271	0
4423	47941	0	0	0	0	0	5.82148	0
4424	47941	0	0	0	0	0	5.82148	0
4425	47941	0	0	0	0	0	5.82148	0
4426	47941	0	0	0	0	0	5.82148	0
4427	47941	0	0	0	0	0	5.82148	0
4428	47941	0	0	0	0	0	5.82148	0
4429	47941	0	0	0	0	0	5.82148	0
4430	47941	0	0	0	0	0	5.82148	0
4431	47941	0	0	0	0	0	5.82148	0
4432	47941	0	0	0	0	0	5.82148	0
4433	47941	0	0	0	0	0	5.82148	0
4434	47941	0	0	0	0	0	5.82148	0
4435	47941	0	0	0	0	0	5.82148	0
4436	47941	0	0	0	0	0	5.82148	0

4437	47941	0	0	0	0	0	5.82148	0
4438	47941	0	0	0	0	0	5.82148	0
4439	47941	0	0	0	0	0	5.82148	0
4440	47941	0	0	0	0	0	5.82148	0
4441	47941	0	0	0	0	0	5.82148	0
4442	47941	0	0	0	0	0	5.82148	0
4443	47941	0	0	0	0	0	5.82148	0
4444	47941	0	0	0	0	0	5.82148	0
4445	47941	0	0	0	0	0	5.82148	0
4446	47941	0	0	0	0	0	5.82148	0
4447	47941	0	0	0	0	0	5.82148	0
4448	47941	0	0	0	0	0	5.82148	0
4449	47941	0	0	0	0	0	5.82148	0
4450	47941	0	0	0	0	0	5.82148	0
4451	47941	0	0	0	0	0	5.82148	0
4452	47941	0	0	0	0	0	5.82148	0
4453	47941	0	0	0	0	0	5.82148	0
4454	47941	0	0	0	0	0	5.82148	0
4455	47941	0	0	0	0	0	5.82148	0
4456	47941	0	0	0	0	0	5.82148	0
4457	47941	0	0	0	0	0	5.82148	0
4458	47941	0	0	0	0	0	5.82148	0
4459	47941	0	0	0	0	0	5.82148	0
4460	47941	0	0	0	0	0	5.82148	0
4461	47941	0	0	0	0	0	5.82148	0
4462	47941	0	0	0	0	0	5.82148	0
4463	47941	0	0	0	0	0	5.82148	0
4464	47941	0	0	0	0	0	5.82148	0
4465	47941	0	0	0	0	0	5.82148	0
4466	47941	0	0	0	0	0	5.82148	0
4467	47941	0	0	0	0	0	5.82148	0
4468	47941	0	0	0	0	0	5.82148	0
4469	47941	0	0	0	0	0	5.82148	0
4470	47941	0	0	0	0	0	5.82148	0
4471	47941	0	0	0	0	0	5.82148	0
4472	47941	0	0	0	0	0	5.82148	0
4473	47941	0	0	0	0	0	5.82148	0
4474	47941	0	0	0	0	0	5.82148	0
4475	47941	0	0	0	0	0	5.82148	0
4476	47941	0	0	0	0	0	5.82148	0
4477	47941	0	0	0	0	0	5.82148	0
4478	47941	0	0	0	0	0	5.82148	0
4479	47941	0	0	0	0	0	5.82148	0
4480	47941	0	0	0	0	0	5.82148	0
4481	47941	0	0	0	0	0	5.82148	0
4482	47941	0	0	0	0	0	5.82148	0
4483	47941	0	0	0	0	0	5.82148	0
4484	47941	0	0	0	0	0	5.82148	0
4485	47941	0	0	0	0	0	5.82148	0
4486	47941	0	0	0	0	0	5.82148	0
4487	47941	0	0	0	0	0	5.82148	0
4488	47941	0	0	0	0	0	5.82148	0
4489	47941	0	0	0	0	0	5.82148	0
4490	47941	0	0	0	0	0	5.82148	0
4491	47941	0	0	0	0	0	5.82148	0
4492	47941	0	0	0	0	0	5.82148	0

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010819

4493	47941	0	0	0	0	0	5.82148	0
4494	47941	0	0	0	0	0	5.82148	0
4495	47941	0	0	0	0	0	5.82148	0
4496	47941	0	0	0	0	0	5.82148	0
4497	47941	0	0	0	0	0	5.82148	0
4498	47941	0	0	0	0	0	5.82148	0
4499	47941	0	0	0	0	0	5.82148	0
4500	47941	0	0	0	0	0	5.82148	0
4501	47941	0	0	0	0	0	5.82148	0
4502	47941	0	0	0	0	0	5.82148	0
4503	47941	0	0	0	0	0	5.82148	0
4504	47941	0	0	0	0	0	5.82148	0
4505	47941	0	0	0	0	0	5.82148	0
4506	47941	0	0	0	0	0	5.82148	0
4507	47941	0	0	0	0	0	5.82148	0
4508	47941	0	0	0	0	0	5.82148	0
4509	47941	0	0	0	0	0	5.82148	0
4510	47941	0	0	0	0	0	5.82148	0
4511	47941	0	0	0	0	0	5.82148	0
4512	47941	0	0	0	0	0	5.82148	0
4513	47941	0	0	0	0	0	5.82148	0
4514	47941	0	0	0	0	0	5.82148	0
4515	47941	0	0	0	0	0	5.82148	0
4516	47941	0	0	0	0	0	5.82148	0
4517	47941	0	0	0	0	0	5.82148	0
4518	47941	0	0	0	0	0	5.82148	0
4519	47941	0	0	0	0	0	5.82148	0
4520	47941	0	0	0	0	0	5.82148	0
4521	47941	0	0	0	0	0	5.82148	0
4522	47941	0	0	0	0	0	5.82148	0
4523	47941	0	0	0	0	0	5.82148	0
4524	47941	0	0	0	0	0	5.82148	0
4525	47941	0	0	0	0	0	5.82148	0
4526	47941	0	0	0	0	0	5.82148	0
4527	47941	0	0	0	0	0	5.82148	0
4528	47941	0	0	0	0	0	5.82148	0
4529	47941	0	0	0	0	0	5.82148	0
4530	47941	0	0	0	0	0	5.82148	0
4531	47941	0	0	0	0	0	5.82148	0
4532	47941	0	0	0	0	0	5.82148	0
4533	47941	0	0	0	0	0	5.82148	0
4534	47941	0	0	0	0	0	5.82148	0
4535	47941	0	0	0	0	0	5.82148	0
4536	47941	0	0	0	0	0	5.82148	0
4537	47941	0	0	0	0	0	5.82148	0
4538	47941	0	0	0	0	0	5.82148	0
4539	47941	0	0	0	0	0	5.82148	0
4540	47941	0	0	0	0	0	5.82148	0
4541	47941	0	0	0	0	0	5.82148	0
4542	47941	0	0	0	0	0	5.82148	0
4543	47941	0	0	0	0	0	5.82148	0
4544	47941	0	0	0	0	0	5.82148	0
4545	47941	0	0	0	0	0	5.82148	0
4546	47941	0	0	0	0	0	5.82148	0
4547	47941	0	0	0	0	0	5.82148	0
4548	47941	0	0	0	0	0	5.82148	0

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010820

4549	47941	0	0	0	0	0	5.82148	0
4550	47941	0	0	0	0	0	5.82148	0
4551	47941	0	0	0	0	0	5.82148	0
4552	47941	0	0	0	0	0	5.82148	0
4553	47941	0	0	0	0	0	5.82148	0
4554	47941	0	0	0	0	0	5.82148	0
4555	47941	0	0	0	0	0	5.82148	0
4556	47941	0	0	0	0	0	5.82148	0
4557	47941	0	0	0	0	0	5.82148	0
4558	47941	0	0	0	0	0	5.82148	0
4559	47941	0	0	0	0	0	5.82148	0
4560	47941	0	0	0	0	0	5.82148	0
4561	47941	0	0	0	0	0	5.82148	0
4562	47941	0	0	0	0	0	5.82148	0
4563	47941	0	0	0	0	0	5.82148	0
4564	47941	0	0	0	0	0	5.82148	0
4565	47941	0	0	0	0	0	5.82148	0
4566	47941	0	0	0	0	0	5.82148	0
4567	47941	0	0	0	0	0	5.82148	0
4568	47941	0	0	0	0	0	5.82148	0
4569	47941	0	0	0	0	0	5.82148	0
4570	47941	0	0	0	0	0	5.82148	0
4571	47941	0	0	0	0	0	5.82148	0
4572	47941	0	0	0	0	0	5.82148	0
4573	47941	0	0	0	0	0	5.82148	0
4574	47941	0	0	0	0	0	5.82148	0
4575	47941	0	0	0	0	0	5.82148	0
4576	47941	0	0	0	0	0	5.82148	0
4577	47941	0	0	0	0	0	5.82148	0
4578	47941	0	0	0	0	0	5.82148	0
4579	47941	0	0	0	0	0	5.82148	0
4580	47941	0	0	0	0	0	5.82148	0
4581	47941	0	0	0	0	0	5.82148	0
4582	47941	0	0	0	0	0	5.82148	0
4583	47941	0	0	0	0	0	5.82148	0
4584	47941	0	0	0	0	0	5.82148	0
4585	47941	0	0	0	0	0	5.82148	0
4586	47941	0	0	0	0	0	5.82148	0
4587	47941	0	0	0	0	0	5.82148	0
4588	47941	0	0	0	0	0	5.82148	0
4589	47941	0	0	0	0	0	5.82148	0
4590	47941	0	0	0	0	0	5.82148	0
4591	47941	0	0	0	0	0	5.82148	0
4592	47941	0	0	0	0	0	5.82148	0
4593	47941	0	0	0	0	0	5.82148	0
4594	47941	0	0	0	0	0	5.82148	0
4595	47941	0	0	0	0	0	5.82148	0
4596	47941	0	0	0	0	0	5.82148	0
4597	47941	0	0	0	0	0	5.82148	0
4598	47941	0	0	0	0	0	5.82148	0
4599	47941	0	0	0	0	0	5.82148	0
4600	47941	0	0	0	0	0	5.82148	0
4601	47941	0	0	0	0	0	5.82148	0
4602	47941	0	0	0	0	0	5.82148	0
4603	47941	0	0	0	0	0	5.82148	0

time(s)	Isf(A)_rms_w4603.	Pm(kW)_average_w4603.	IL1(A)_rms_w4603.
4603	98.696	39.7056	368.54

time(s)	Isf(A)	Pm(kW)	IsPeak_vsi(A)	IL1(A)
0	28.1664	-1.06E-03	162.204	2.53721
1	91.641	5.24605	553.102	27.1763
2	137.22	20.5006	849.139	84.8019
3	137.247	33.3127	876.276	119.867
4	137.269	46.1176	896.411	154.196
5	137.292	58.9143	914.705	188.41
6	137.316	71.7026	923.273	223.722
7	137.34	84.4821	931.881	258.786
8	137.367	97.2523	929.857	294.922
9	137.394	110.013	927.143	331.101
10	137.423	122.764	942.016	367.319
11	137.453	135.504	963.936	403.764
12	138.492	148.233	970.024	439.359
13	140.627	160.953	958.917	474.138
14	143.149	173.275	952.327	507.565
15	147.292	184.332	961.802	539.008
16	151.275	195.129	970.509	569.689
17	145.509	192.072	943.732	559.422
18	139.882	188.86	917.647	548.78
19	135.7	186.94	893.837	541.973
20	132.815	186.219	871.701	538.7
21	130.063	185.531	850.59	535.579
22	127.803	185.168	830.586	533.715
23	125.93	185.061	811.439	532.844
24	124.122	184.959	792.958	532.003
25	122.413	184.822	776.559	531.058
26	39.63	31.2812	394.213	98.4337
27	43.7145	43.5693	402.651	131.811
28	45.0954	47.2883	405.367	141.964
29	46.5918	51.0072	408.15	152.2
30	44.5772	45.9796	404.392	138.369
31	45.3931	48.0281	405.92	144
32	45.9835	49.4954	407.019	148.039
33	45.9835	49.4954	407.019	148.039
34	45.9835	49.4954	407.019	148.039
35	45.9835	49.4954	407.019	148.039

010822

36	45.9835	49.4954	407.019	148.039
37	45.9835	49.4954	407.019	148.039
38	45.9835	49.4954	407.019	148.039
39	45.9835	49.4954	407.019	148.039
40	45.9835	49.4954	407.019	148.039
41	45.9835	49.4954	407.019	148.039
42	45.9835	49.4954	407.019	148.039
43	42.3974	39.8899	399.994	121.8
44	41.7995	38.2193	398.787	117.255
45	41.2231	36.5488	397.611	112.714
46	41.1032	36.1523	397.355	111.639
47	40.5602	34.357	396.197	106.772
48	120.633	184.475	764.836	529.303
49	119.214	184.199	755.488	527.904
50	117.837	183.931	746.422	526.546
51	116.563	183.681	738.686	525.299
52	115.451	183.433	739.671	524.316
53	114.374	183.192	740.626	523.363
54	113.33	182.959	741.551	522.439
55	112.307	182.731	742.457	521.535
56	111.296	182.505	743.353	520.641
57	111.051	182.681	748.212	521.308
58	110.89	182.896	753.406	522.127
59	110.731	183.107	758.521	522.935
60	110.571	183.321	763.681	523.749
61	110.409	183.537	768.909	524.574
62	110.35	183.739	772.309	525.349
63	110.551	183.905	771.076	525.994
64	110.759	184.077	769.803	526.661
65	110.972	184.253	768.502	527.341
66	111.189	184.431	767.175	528.035
67	111.373	184.546	765.775	528.556
68	111.382	184.324	764.084	528.155
69	111.391	184.106	762.422	527.76
70	111.4	183.891	760.788	527.372
71	111.408	183.68	759.182	526.99
72	111.416	183.473	757.603	526.615
73	111.238	182.929	755.182	525.329
74	111.058	182.388	752.785	524.046
75	110.882	181.855	750.428	522.785
76	110.708	181.332	748.112	521.546
77	110.538	180.818	745.835	520.327
78	26.0915	16.0129	377.762	61.8438
79	26.0915	16.0129	377.762	61.8438
80	26.0915	16.0129	377.762	61.8438
81	29.2699	27.5939	380.148	92.9944
82	29.8398	29.246	380.648	97.4526
83	30.4098	30.8981	381.147	101.911
84	28.9041	26.4211	379.849	89.8345
85	28.9041	26.4211	379.849	89.8345
86	28.9041	26.4211	379.849	89.8345
87	171.349	-333.839	1104.34	-748.607
88	170.72	-335.729	1108.53	-754.188
89	169.134	-335.518	1108.45	-755.296
90	164.661	-329.402	1092.54	-743.198
91	157.927	-316.052	1045.8	-714.746

010823

92	150.365	-296.201	969.453	-671.115
93	144.839	-276.39	928.268	-624.607
94	139.451	-256.626	894.421	-578.865
95	134.091	-236.853	879.689	-533.184
96	129.016	-217.079	869.801	-487.285
97	124.522	-197.325	845.644	-440.787
98	121.658	-177.591	803.847	-395.256
99	121.665	-1.58E+02	821.098	-347.75
100	121.941	-1.38E+02	854.02	-300.333
101	121.994	-1.18E+02	872.812	-254.329
102	122.044	-9.87E+01	853.929	-210.501
103	122.09	-78.9438	843.816	-163.22
104	122.131	-59.2136	819.538	-118.509
105	99.5289	-2.92E+01	656.861	-53.8089
106	67.4861	-6.71E-02	434.407	7.50323
107	67.4814	-2.76E-02	407.33	6.40904
108	0	0	0	0
109	0	0	0	0
110	0	0	0	0
111	0	0	0	0
112	0	0	0	0
113	0	0	0	0
114	0	0	0	0
115	0	0	0	0
116	0	0	0	0
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118	0	0	0	0
119	0	0	0	0
120	0	0	0	0
121	0	0	0	0
122	0	0	0	0
123	0	0	0	0
124	0	0	0	0
125	137.178	3.09292	806.356	36.5525
126	137.203	13.4429	831.793	65.2399
127	137.23	24.5649	859.129	96.0672
128	137.254	37.3754	882.664	130.759
129	137.276	50.1777	902.795	165.081
130	137.299	62.9716	917.392	199.766
131	137.324	75.7572	926.004	234.847
132	137.349	88.5338	931.712	270.202
133	137.376	101.301	929.06	306.254
134	137.403	114.059	926.984	342.578
135	137.432	126.806	948.949	378.948
136	137.462	139.542	970.896	415.288
137	139.169	152.269	966.5	450.395
138	141.295	164.935	955.44	485.028
139	144.374	176.545	955.13	516.865
140	148.362	187.188	964.25	547.132
141	150.281	194.796	965.855	568.447
142	144.744	191.635	940.188	557.976
143	139.727	188.771	916.927	548.487
144	136.014	187.018	896.242	542.329
145	133.59	186.412	877.647	539.58
146	131.358	185.854	860.521	537.047
147	129.353	185.353	845.141	534.773

148	127.871	185.171	831.276	533.746
149	126.642	185.102	818.718	533.175
150	125.534	185.039	807.396	532.66
151	124.504	184.981	796.871	532.181
152	123.496	184.923	786.566	531.713
153	122.513	184.841	777.215	531.156
154	77.8966	113.76	532.841	326.582
155	66.4709	92.9303	470.212	268.174
156	67.1129	94.1272	473.749	271.52
157	72.2778	103.691	502.15	298.282
158	73.0166	105.027	506.186	302.034
159	73.8146	106.471	510.546	306.086
160	74.7381	108.141	515.592	310.776
161	75.6615	109.812	520.637	315.466
162	71.4647	102.22	497.708	294.153
163	71.4647	102.22	497.708	294.153
164	71.4647	102.22	497.708	294.153
165	71.4647	102.22	497.708	294.153
166	71.4647	102.22	497.708	294.153
167	71.4647	102.22	497.708	294.153
168	71.4647	102.22	497.708	294.153
169	71.4647	102.22	497.708	294.153
170	71.4647	102.22	497.708	294.153
171	71.4647	102.22	497.708	294.153
172	71.4647	102.22	497.708	294.153
173	71.4647	102.22	497.708	294.153
174	71.4647	102.22	497.708	294.153
175	71.4647	102.22	497.708	294.153
176	71.4647	102.22	497.708	294.153
177	71.4647	102.22	497.708	294.153
178	71.4647	102.22	497.708	294.153
179	66.8047	93.5527	472.052	269.915
180	66.1271	92.288	468.331	266.379
181	66.5946	93.161	470.894	268.819
182	65.2427	90.5802	463.909	261.626
183	80.7833	118.861	548.498	340.953
184	120.785	184.505	765.834	529.452
185	119.825	184.318	759.514	528.506
186	118.812	184.121	752.841	527.507
187	117.75	183.914	745.844	526.46
188	116.643	183.699	738.614	525.37
189	115.604	183.467	739.535	524.451
190	114.52	183.225	740.496	523.492
191	113.391	182.973	741.497	522.493
192	112.219	182.711	742.536	521.456
193	111.167	182.527	744.483	520.719
194	110.965	182.795	750.965	521.742
195	110.768	183.058	757.326	522.746
196	110.575	183.316	763.566	523.731
197	110.385	183.569	769.689	524.697
198	110.405	183.785	771.972	525.526
199	110.623	183.965	770.637	526.224
200	110.837	184.142	769.324	526.911
201	111.048	184.316	768.033	527.586
202	167.565	-333.861	1104.29	-752.406
203	161.627	-324.744	1080.26	-733.578

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010823

204	153.972	-3.06E+02	1004.79	-693.091
205	147.692	-2.86E+02	949.315	-648.363
206	142.223	-266.664	911.569	-602.225
207	136.793	-246.938	881.205	-556.379
208	131.507	-227.209	878.238	-511.002
209	126.747	-2.07E+02	858.997	-464.646
210	123.133	-1.88E+02	825.373	-418.705
211	121.371	-168.026	806.233	-372.425
212	121.913	-148.298	835.499	-324.577
213	121.968	-128.568	871.156	-277.798
214	122.019	-108.838	863.443	-233.164
215	122.066	-89.1083	849.026	-187.578
216	122.11	-6.94E+01	833.945	-141.275
217	121.831	-4.95E+01	804.081	-96.7941
218	78.5415	-10.1351	518.322	-13.3583
219	67.4838	-4.79E-02	421.28	6.97274
220	67.4791	-8.40E-03	394.203	5.87855
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237	0	0	0	0
238	137.19	8.11086	818.689	50.4609
239	137.215	18.4608	844.126	79.1483
240	137.243	30.7771	872.289	113.069
241	137.265	43.5832	892.447	147.287
242	137.287	56.3815	912.589	181.501
243	137.311	69.1715	921.568	216.777
244	137.335	81.9528	930.178	251.846
245	137.362	94.7249	930.484	287.529
246	137.389	107.487	927.68	323.941
247	137.417	120.24	937.635	360.215
248	137.447	132.982	959.592	396.57
249	138.07	145.714	972.223	432.47
250	140.204	158.436	961.115	467.256
251	142.324	171.074	950.441	501.305
252	146.475	182.151	959.934	532.807
253	150.587	193.126	969.339	564.018
254	146.674	192.737	949.132	561.625
255	140.948	189.469	922.589	550.797
256	136.244	187.076	898.007	542.59
257	133.267	186.332	875.17	539.213
258	130.398	185.614	853.153	535.958
259	127.944	185.176	832.026	533.78

010826

260	125.945	185.062	811.592	532.851
261	123.989	184.951	791.604	531.942
262	122.083	184.758	774.386	530.732
263	120.229	184.397	762.17	528.904
264	118.401	184.041	750.137	527.102
265	116.605	183.69	738.648	525.336
266	115.014	183.335	740.059	523.929
267	113.463	182.989	741.433	522.557
268	111.952	182.651	742.773	521.22
269	111.079	182.643	747.307	521.165
270	110.839	182.964	755.051	522.387
271	110.603	183.278	762.649	523.586
272	110.372	183.586	770.104	524.763
273	110.459	183.829	771.641	525.699
274	110.71	184.037	770.103	526.503
275	110.955	184.239	768.602	527.289
276	111.194	184.436	767.14	528.054
277	111.374	184.529	765.641	528.524
278	111.383	184.308	763.965	528.126
279	111.391	184.106	762.422	527.76
280	111.398	183.92	761.01	527.424
281	59.2196	93.6198	465.185	272.2
282	168.295	-334.982	1107.24	-754.721
283	161.944	-325.23	1081.54	-734.582
284	153.896	-305.923	1004	-692.674
285	147.326	-285.042	946.55	-645.24
286	141.636	-264.539	907.938	-597.279
287	41.1776	-29.5271	431.785	-56.0084
288	42.0939	39.0418	399.381	119.493
289	42.0939	39.0418	399.381	119.493
290	42.0939	39.0418	399.381	119.493
291	42.0939	39.0418	399.381	119.493
292	42.0939	39.0418	399.381	119.493
293	49.0873	57.0515	413.049	168.83
294	49.8237	58.722	414.681	173.423
295	50.5601	60.3925	416.312	178.015
296	51.2965	62.063	417.943	182.608
297	52.0329	63.7335	419.574	187.201
298	48.4382	55.5791	411.612	164.782
299	48.4382	55.5791	411.612	164.782
300	48.4382	55.5791	411.612	164.782
301	48.4382	55.5791	411.612	164.782
302	48.4382	55.5791	411.612	164.782
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307	48.4382	55.5791	411.612	164.782
308	48.4382	55.5791	411.612	164.782
309	48.4382	55.5791	411.612	164.782
310	48.4382	55.5791	411.612	164.782
311	48.4382	55.5791	411.612	164.782
312	48.4382	55.5791	411.612	164.782
313	47.81	54.0345	410.416	160.532
314	47.4877	53.2337	409.816	158.328
315	51.0163	61.4273	417.322	180.86

010827

316	51.0163	61.4273	417.322	180.86
317	51.0163	61.4273	417.322	180.86
318	51.2937	62.0567	417.937	182.591
319	52.0301	63.7272	419.568	187.184
320	48.4382	55.5791	411.612	164.782
321	48.4382	55.5791	411.612	164.782
322	48.4382	55.5791	411.612	164.782
323	48.4382	55.5791	411.612	164.782
324	48.4382	55.5791	411.612	164.782
325	48.4382	55.5791	411.612	164.782
326	48.4382	55.5791	411.612	164.782
327	48.4382	55.5791	411.612	164.782
328	48.4382	55.5791	411.612	164.782
329	48.4382	55.5791	411.612	164.782
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331	48.4382	55.5791	411.612	164.782
332	48.4382	55.5791	411.612	164.782
333	48.4382	55.5791	411.612	164.782
334	48.4382	55.5791	411.612	164.782
335	48.4382	5.56E+01	411.612	164.782
336	43.7338	4.36E+01	402.69	131.958
337	42.1826	39.2896	399.56	120.167
338	40.7414	34.9561	396.583	108.396
339	39.4309	30.6226	393.788	96.6482
340	49.5158	58.0253	413.98	171.507
341	120.38	184.426	763.168	529.053
342	118.866	1.84E+02	753.199	527.561
343	117.372	1.84E+02	743.355	526.087
344	110.805	175.357	709.896	501.082
345	140.627	-260.885	901.696	-588.776
346	135.244	-241.157	880.336	-543.084
347	130.044	-221.429	874.698	-497.546
348	125.38	-201.701	852.49	-451.012
349	122.294	-181.974	813.131	-405.369
350	121.538	-162.246	814.687	-358.392
351	121.929	-142.518	846.032	-310.789
352	121.983	-122.788	877.105	-264.028
353	122.033	-103.058	857.781	-220.374
354	122.079	-8.33E+01	846.063	-173.725
355	122.122	-6.36E+01	825.752	-128.328
356	109.147	-37.9682	720.353	-72.3472
357	67.4877	-8.06E-02	443.662	7.87721
358	67.4824	-3.63E-02	413.346	6.65215
359	0	0	0	0
360	0	0	0	0
361	0	0	0	0
362	0	0	0	0
363	0	0	0	0
364	0	0	0	0
365	0	0	0	0
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367	0	0	0	0
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369	0	0	0	0
370	0	0	0	0
371	0	0	0	0

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372	0	0	0	0
373	0	0	0	0
374	0	0	0	0
375	0	0	0	0
376	137.173	0.793337	800.704	30.1787
377	137.197	11.1433	826.142	58.8661
378	137.223	21.7181	852.132	88.1765
379	137.249	34.5297	878.198	123.084
380	137.271	47.3338	898.323	157.457
381	137.294	60.1298	915.527	191.74
382	137.318	72.9172	924.091	227.055
383	137.343	85.6959	932.315	262.156
384	137.37	98.4652	929.674	298.179
385	137.397	111.225	926.885	334.537
386	137.426	123.975	944.07	370.87
387	137.455	136.714	966.021	407.216
388	138.695	149.442	968.968	442.665
389	140.829	162.161	957.863	477.441
390	143.544	174.33	953.231	510.565
391	147.683	185.377	962.698	541.981
392	150.977	195.193	969.084	569.764
393	144.956	191.756	941.168	558.376
394	139.363	188.564	915.238	547.798
395	135.401	186.865	891.54	541.634
396	132.501	186.14	869.291	538.344
397	129.722	185.445	847.968	535.191
398	127.519	185.151	827.68	533.583
399	125.603	185.043	808.098	532.692
400	123.742	184.937	789.083	531.827
401	121.946	184.731	773.479	530.596
402	120.25	184.401	762.314	528.925
403	118.6	184.08	751.442	527.298
404	116.991	183.767	740.845	525.712
405	115.548	183.454	739.585	524.401
406	114.173	183.147	740.803	523.186
407	112.822	182.846	742.001	521.99
408	111.504	182.552	743.169	520.825
409	111.036	182.701	748.697	521.384
410	110.826	182.981	755.459	522.452
411	110.62	183.255	762.094	523.499
412	110.418	183.524	768.604	524.526
413	110.379	183.763	772.131	525.442
414	110.611	183.955	770.712	526.185
415	110.839	184.143	769.317	526.915
416	111.063	184.328	767.945	527.632
417	111.283	184.51	766.596	528.338
418	111.377	184.451	765.048	528.383
419	111.386	184.23	763.364	527.983
420	111.395	184.009	761.682	527.584
421	111.404	183.792	760.032	527.192
422	111.411	183.597	758.547	526.839
423	111.381	183.361	757.093	526.352
424	111.255	182.981	755.41	525.451
425	111.153	182.674	754.053	524.725
426	111.076	182.44	753.017	524.171
427	111.022	182.278	752.3	523.787

428	110.986	182.171	751.824	523.532
429	110.952	182.068	751.371	523.29
430	110.919	181.968	750.925	523.051
431	110.886	181.869	750.488	522.817
432	110.854	181.772	750.057	522.587
433	110.822	181.676	749.635	522.361
434	110.791	181.582	749.219	522.138
435	110.761	181.49	748.81	521.919
436	110.731	181.399	748.409	521.705
437	110.689	181.273	747.851	521.406
438	110.611	181.039	746.816	520.852
439	110.496	180.69	745.27	520.025
440	16.2548	5.95E+00	248.636	28.4355
441	28.9253	-3.25E+01	417.486	-59.5925
442	40.577	-70.6471	431.173	-150.621
443	48.5799	-91.1894	442.441	-199.266
444	48.8438	-91.8371	442.841	-200.795
445	49.1077	-92.4848	443.241	-202.324
446	49.3242	-93.0163	443.569	-203.579
447	49.3242	-93.0163	443.569	-203.579
448	49.3242	-93.0163	443.569	-203.579
449	49.3242	-93.0163	443.569	-203.579
450	46.4871	-8.61E+01	439.269	-187.14
451	39.193	-6.70E+01	429.324	-141.946
452	101.772	-207.471	711.685	-468.988
453	171.112	-334.55	1105.92	-750.708
454	170.213	-335.794	1108.79	-754.889
455	168.607	-335.383	1108.28	-755.495
456	162.9	-326.699	1085.41	-737.615
457	155.655	-310.343	1022.24	-702.306
458	148.844	-290.618	957.995	-658.169
459	143.392	-270.893	918.794	-612.066
460	137.943	-251.168	885.097	-566.164
461	132.64	-231.439	878.874	-520.731
462	127.747	-211.711	863.758	-474.623
463	123.747	-191.983	834.331	-428.464
464	121.248	-172.256	800.047	-382.695
465	121.82	-152.528	828.901	-334.798
466	121.956	-132.799	863.743	-287.606
467	122.008	-1.13E+02	867.586	-242.524
468	122.056	-9.33E+01	851.194	-197.715
469	122.102	-73.6083	839.941	-150.75
470	122.142	-53.878	811.976	-106.558
471	87.8222	-18.575	579.584	-31.2457
472	67.4848	-5.64E-02	427.085	7.20734
473	67.4801	-1.69E-02	400.008	6.11315
474	0	0	0	0
475	0	0	0	0
476	0	0	0	0
477	0	0	0	0
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479	0	0	0	0
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482	0	0	0	0
483	0	0	0	0

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484	0	0	0	0
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489	0	0	0	0
490	0	0	0	0
491	137.185	5.89178	813.235	44.3102
492	137.21	16.2418	836.611	72.9597
493	137.238	28.0299	867.645	105.671
494	137.26	40.8381	888.126	139.948
495	137.282	53.6382	908.237	174.358
496	137.306	66.4299	919.722	209.255
497	137.33	79.2132	928.332	244.329
498	137.356	91.9873	930.977	279.994
499	137.383	104.752	928.312	316.079
500	137.411	117.507	932.925	352.416
501	137.44	130.251	954.886	388.778
502	137.612	142.985	974.606	425.008
503	139.747	155.709	963.496	459.8
504	141.88	168.421	952.396	494.559
505	145.578	179.758	957.883	526.001
506	149.674	190.689	967.25	557.085
507	148.068	193.532	955.595	564.261
508	142.344	190.265	929.06	553.436
509	137.101	187.29	904.582	543.562
510	134.235	186.574	882.593	540.311
511	131.519	185.894	861.756	537.23
512	128.947	185.251	842.023	534.312
513	127.112	1.85E+02	823.52	533.393
514	125.38	185.03	805.819	532.588
515	123.723	184.936	788.885	531.818
516	122.147	184.77	774.804	530.795
517	120.643	184.477	764.902	529.313
518	119.185	184.194	755.298	527.875
519	117.771	183.918	745.982	526.481
520	116.424	183.65	738.809	525.176
521	115.221	183.381	739.875	524.112
522	114.049	183.12	740.913	523.076
523	112.907	182.865	741.926	522.066
524	111.794	182.616	742.912	521.081
525	111.117	182.592	746.066	520.969
526	110.941	1.83E+02	751.767	521.869
527	110.767	1.83E+02	757.36	522.752
528	110.597	183.286	762.849	523.618
529	110.43	183.509	768.234	524.468
530	110.324	183.718	772.465	525.268
531	110.516	1.84E+02	771.291	525.882
532	110.704	184.032	770.137	526.485
533	110.89	184.185	769.003	527.079
534	111.072	184.335	767.888	527.662
535	111.251	184.483	766.792	528.236
536	111.374	184.525	765.613	528.517
537	168.926	-335.465	1108.38	-755.374
538	163.793	-328.069	1089.02	-740.445
539	156.67	-312.893	1032.76	-707.862

010830

540	149.458	-292.872	962.621	-663.396
541	143.953	-272.926	922.267	-616.797
542	138.463	-253.05	888.312	-570.544
543	133.122	-233.236	879.145	-524.864
544	128.166	-213.482	865.752	-478.801
545	124.004	-193.755	838.083	-432.551
546	121.197	-174.027	797.456	-386.995
547	121.769	-154.299	826.31	-339.099
548	121.951	-1.35E+02	860.515	-291.832
549	122.003	-114.84	869.321	-246.443
550	122.052	-95.1101	852.102	-201.96
551	122.098	-75.3799	841.843	-154.826
552	122.138	-55.6496	814.487	-110.526
553	91.7091	-22.1098	605.242	-38.7373
554	67.4852	-5.99E-02	429.516	7.30558
555	67.4806	-2.04E-02	402.439	6.21139
556	0	0	0	0
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569	0	0	0	0
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571	0	0	0	0
572	0	0	0	0
573	137.183	4.96248	810.951	41.7344
574	137.207	15.3125	834.169	70.381
575	137.235	26.8794	864.817	102.482
576	137.258	39.6885	886.317	136.875
577	137.28	52.4892	906.43	171.278
578	137.304	65.2818	918.948	206.105
579	137.328	78.0658	927.664	240.873
580	137.354	90.8408	931.221	276.743
581	137.381	103.606	928.506	312.936
582	137.408	116.362	930.973	349.123
583	137.438	129.107	952.915	385.514
584	137.467	141.842	974.927	421.546
585	139.555	154.567	964.493	456.677
586	141.688	167.281	953.392	491.441
587	145.216	178.792	957.055	523.255
588	149.333	189.781	966.472	554.503
589	148.81	193.956	959.034	565.664
590	143.269	190.793	933.346	555.185
591	138.149	187.871	909.613	545.503
592	134.968	186.757	888.219	541.143
593	132.347	186.102	868.113	538.17
594	129.863	185.48	849.051	535.351
595	127.808	185.168	830.633	533.717

010831

010832

596	126.062	185.069	812.792	532.905
597	124.377	184.973	795.571	532.122
598	122.743	184.881	778.868	531.362
599	121.119	184.57	768.036	529.782
600	119.466	184.248	757.148	528.152
601	117.781	183.92	746.054	526.491
602	116.122	183.582	739.076	524.909
603	44.6147	52.438	371.358	156.175
604	40.3105	-39.958	407.209	-80.7879
605	43.0268	-51.1576	412.107	-107.58
606	46.4966	-62.3572	418.177	-134.159
607	9.64653	2.70586	105.562	11.5701
608	65.5987	99.4444	471.295	285.61
609	144.774	-276.154	927.771	-624.059
610	49.7686	-67.7711	428.025	-146.804
611	49.7686	-67.7711	428.025	-146.804
612	47.7954	-61.579	424.674	-132.137
613	44.6175	-51.6068	419.278	-108.515
614	42.1309	-41.6347	414.802	-84.7108
615	36.0312	-16.4295	388.18	-24.9034
616	10.7138	-4.88527	115.424	-7.40497
617	25.9183	7.07696	277.899	30.121
618	35.3585	19.3467	362.33	66.3892
619	38.4684	31.6167	367.161	99.5948
620	39.455	34.9333	368.04	108.566
621	42.0063	42.4844	370.461	129.047
622	42.0063	42.4844	370.461	129.047
623	42.0063	42.4844	370.461	129.047
624	42.0063	42.4844	370.461	129.047
625	42.0063	42.4844	370.461	129.047
626	42.0063	42.4844	370.461	129.047
627	42.0063	42.4844	370.461	129.047
628	42.0063	42.4844	370.461	129.047
629	42.0063	42.4844	370.461	129.047
630	42.0063	42.4844	370.461	129.047
631	38.9988	33.3996	367.633	104.418
632	38.5018	31.7293	367.191	99.8993
633	38.0049	30.0589	366.748	95.3809
634	37.508	28.3886	366.305	90.8625
635	70.5796	104.211	483.063	299.315
636	116.555	183.679	738.692	525.292
637	115.315	183.402	739.792	524.195
638	66.6777	-116.296	482.355	-261.261
639	142.15	-266.398	911.114	-601.605
640	55.28	-77.8914	467.937	-170.693
641	37.8749	24.8467	389.433	80.9868
642	37.9561	25.1912	389.731	81.9211
643	38.5936	27.8542	392.002	89.1431
644	39.399	30.5172	393.72	96.3625
645	40.2043	33.1802	395.438	103.582
646	47.6591	53.6595	410.135	159.499
647	49.5023	57.993	413.969	171.419
648	51.4126	62.3265	418.2	183.333
649	53.3851	66.66	422.767	195.281
650	55.4286	70.9935	427.716	207.269
651	52.9303	65.6954	421.666	192.613

652	53.8974	67.7463	424.008	198.286
653	53.8974	6.77E+01	424.008	198.286
654	53.8974	67.7463	424.008	198.286
655	53.8974	67.7463	424.008	198.286
656	53.8974	67.7463	424.008	198.286
657	53.8974	67.7463	424.008	198.286
658	53.8974	67.7463	424.008	198.286
659	53.3905	66.6713	422.78	195.313
660	51.6122	62.7793	418.643	184.577
661	49.8965	58.8872	414.842	173.877
662	44.3342	45.3005	403.902	136.521
663	42.343	39.7379	399.884	121.387
664	40.5053	34.1753	396.079	106.28
665	38.823	28.6127	392.491	91.1994
666	37.4516	23.0501	387.878	76.1144
667	120.496	184.449	763.928	529.167
668	118.929	1.84E+02	753.612	527.623
669	117.374	1.84E+02	743.371	526.09
670	115.937	183.541	739.24	524.745
671	114.607	1.83E+02	740.419	523.569
672	113.311	182.955	741.568	522.423
673	112.048	182.673	742.687	521.306
674	111.135	182.568	745.487	520.878
675	110.935	182.835	751.95	521.898
676	110.738	183.098	758.292	522.899
677	110.545	183.355	764.514	523.881
678	110.356	183.608	770.619	524.844
679	110.438	183.813	771.765	525.634
680	110.656	183.992	770.433	526.33
681	110.87	184.169	769.124	527.016
682	111.08	184.342	767.837	527.689
683	111.287	184.513	766.571	528.351
684	111.377	184.46	765.121	528.401
685	165.018	-329.95	1093.98	-744.33
686	158.431	-317.317	1051.03	-717.503
687	150.744	-297.593	972.311	-674.343
688	145.245	-277.868	931.39	-628.05
689	139.87	-258.143	897.012	-582.395
690	134.509	-238.415	879.923	-536.777
691	129.396	-218.687	871.611	-491.078
692	124.759	-198.959	849.106	-444.559
693	121.896	-179.232	807.323	-399.042
694	121.618	-1.60E+02	818.698	-351.735
695	121.936	-1.40E+02	851.03	-304.248
696	121.99	-120.045	874.419	-257.96
697	122.04	-100.315	855.096	-214.306
698	122.086	-80.5852	844.657	-167.154
699	122.128	-60.8549	821.865	-122.185
700	103.13	-32.4961	680.633	-60.7499
701	67.4866	-7.14E-02	437.397	7.62406
702	67.4818	-3.08E-02	409.583	6.50006
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708	0	0	0	0
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719	0	0	0	0
720	137.176	2.23193	804.24	34.1661
721	137.201	12.5819	826.995	62.8041
722	137.227	23.499	856.509	93.1128
723	137.252	36.3099	881	127.843
724	137.274	49.1129	901.149	162.07
725	137.297	61.9076	916.676	196.847
726	137.322	74.6939	925.288	231.93
727	137.346	87.4713	931.938	267.19
728	137.373	100.239	929.222	303.39
729	137.4	112.998	926.508	339.564
730	137.43	125.746	947.122	375.924
731	137.46	138.483	969.071	412.266
732	138.992	151.211	967.424	447.501
733	141.126	163.928	956.32	482.273
734	144.122	175.872	954.552	514.949
735	148.256	186.905	964.007	546.325
736	150.114	194.7	965.079	568.13
737	144.154	191.298	937.452	556.86
738	138.982	188.346	913.474	547.078
739	135.448	186.877	891.9	541.687
740	132.831	186.223	871.827	538.719
741	130.354	185.603	852.822	535.909
742	128.228	185.192	834.927	533.912
743	126.571	185.098	817.989	533.142
744	124.901	185.003	800.919	532.365
745	123.288	184.912	784.437	531.616
746	87.9494	131.002	587.7	375.391
747	39.0057	29.2166	392.881	92.8367
748	39.0057	29.2166	392.881	92.8367
749	39.0057	29.2166	392.881	92.8367
750	39.0057	29.2166	392.881	92.8367
751	36.6182	19.5129	384.817	66.5214
752	35.7417	14.475	382.892	52.9964
753	28.2695	7.48E+00	308.931	31.5532
754	1.82429	4.83E-01	19.9361	2.0362
755	14.6255	3.86912	159.829	16.3244
756	120.312	184.413	762.718	528.986
757	118.448	184.05	750.444	527.148
758	116.593	183.688	738.659	525.326
759	114.914	183.313	740.147	523.84
760	113.226	182.936	741.643	522.348
761	111.535	182.559	743.141	520.852
762	110.983	182.771	750.389	521.651
763	110.724	183.117	758.747	522.97

010834

764	110.477	183.446	766.714	524.228
765	110.353	183.742	772.289	525.36
766	110.619	183.961	770.661	526.211
767	110.871	184.17	769.116	527.02
768	111.11	184.367	767.654	527.785
769	111.338	184.555	766.262	528.513
770	111.38	1.84E+02	764.566	528.269
771	111.389	1.84E+02	762.841	527.859
772	111.398	183.938	761.145	527.456
773	111.406	183.719	759.478	527.061
774	111.415	183.504	757.84	526.671
775	111.259	182.993	755.462	525.479
776	111.072	182.431	752.974	524.148
777	110.889	181.878	750.529	522.839
778	110.709	181.335	748.125	521.553
779	110.533	180.801	745.762	520.288
780	24.762	9.63139	376.911	44.724
781	24.762	9.63139	376.911	44.724
782	24.762	9.63139	376.911	44.724
783	24.8846	10.2197	376.99	46.3022
784	24.8849	10.2214	376.99	46.3068
785	24.762	9.63139	376.911	44.724
786	24.7877	9.75448	376.928	45.0542
787	24.7733	9.68564	376.919	44.8695
788	25.0232	10.8852	377.078	48.0875
789	171.4	-333.687	1104	-748.157
790	170.831	-335.394	1107.79	-753.2
791	169.432	-335.594	1108.54	-755.183
792	165.796	-331.145	1097.13	-746.797
793	159.506	-320.02	1062.18	-723.392
794	151.685	-300.366	981.066	-680.567
795	146.131	-280.656	937.547	-635.068
796	140.64	-260.931	901.775	-588.883
797	135.256	-241.204	880.343	-543.19
798	130.055	-221.475	874.75	-497.655
799	125.391	-201.748	852.542	-451.12
800	122.301	-1.82E+02	813.229	-405.475
801	121.537	-1.62E+02	814.62	-358.504
802	121.929	-142.564	845.948	-310.899
803	121.983	-122.834	877.15	-264.13
804	122.033	-103.104	857.827	-220.476
805	122.079	-83.3737	846.086	-173.836
806	122.122	-63.6434	825.817	-128.431
807	109.249	-38.0602	721.021	-72.5423
808	67.4877	-8.07E-02	443.767	7.88147
809	67.4825	-3.64E-02	413.409	6.65471
810	0	0	0	0
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812	0	0	0	0
813	0	0	0	0
814	0	0	0	0
815	0	0	0	0
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817	0	0	0	0
818	0	0	0	0
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820	0	0	0	0
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822	0	0	0	0
823	0	0	0	0
824	0	0	0	0
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826	0	0	0	0
827	137.173	0.769144	800.644	30.1116
828	137.197	11.1191	823.152	58.7451
829	137.223	21.6881	852.058	88.0935
830	137.249	34.4998	878.151	123.003
831	137.271	47.3039	898.276	157.376
832	137.294	60.0999	915.458	191.887
833	137.318	72.8873	924.16	226.687
834	137.343	85.666	932.322	262.071
835	137.37	98.4354	929.606	298.276
836	137.397	111.195	926.891	334.453
837	137.426	123.945	944.053	370.676
838	137.455	136.684	965.97	407.131
839	138.69	149.413	968.994	442.584
840	140.824	162.131	957.888	477.36
841	143.534	1.74E+02	953.209	510.491
842	147.674	1.85E+02	962.676	541.908
843	150.986	195.198	969.122	569.779
844	144.939	191.746	941.089	558.344
845	139.309	188.533	914.988	547.696
846	135.349	186.852	891.14	541.575
847	132.428	186.122	868.734	538.262
848	129.63	185.422	847.262	535.087
849	127.437	185.147	826.839	533.544
850	125.507	185.037	807.113	532.647
851	123.632	184.931	787.958	531.776
852	121.824	184.707	772.678	530.477
853	120.073	184.366	761.145	528.75
854	118.363	184.034	749.885	527.065
855	116.702	183.71	738.947	525.427
856	115.243	183.386	739.855	524.132
857	113.826	183.07	741.111	522.878
858	112.445	182.762	742.335	521.657
859	111.182	182.505	743.972	520.639
860	110.964	182.797	751.028	521.752
861	110.749	183.084	757.951	522.845
862	110.538	1.83E+02	764.743	523.917
863	110.331	183.64	771.407	524.969
864	110.488	183.853	771.463	525.792
865	110.726	184.049	770.009	526.553
866	110.959	184.242	768.579	527.301
867	111.189	184.432	767.173	528.036
868	111.374	184.539	765.717	528.542
869	111.383	184.309	763.972	528.128
870	111.392	184.084	762.257	527.721
871	111.401	183.863	760.571	527.32
872	111.409	183.645	758.914	526.927
873	111.383	183.368	757.122	526.368
874	111.195	182.799	754.606	525.021
875	111.009	182.24	752.133	523.697

010336

876	110.827	181.691	749.702	522.396
877	110.649	181.151	747.312	521.118
878	110.473	180.621	744.963	519.861
879	24.762	9.63139	376.911	44.724
880	24.762	9.63E+00	376.911	44.724
881	24.762	9.63139	376.911	44.724
882	24.762	9.63139	376.911	44.724
883	24.762	9.63139	376.911	44.724
884	24.762	9.63139	376.911	44.724
885	25.0896	11.2038	377.121	48.9423
886	138.966	-278.646	922.915	-628.646
887	170.955	-335.023	1106.97	-752.104
888	169.743	-335.674	1108.64	-755.066
889	166.924	-332.877	1101.7	-750.373
890	161.016	-323.806	1077.79	-731.641
891	153.227	-304.241	997.059	-689.011
892	147.207	-284.606	945.655	-644.228
893	141.741	-264.916	908.583	-598.156
894	136.324	-245.19	880.942	-552.359
895	131.039	-225.461	877.976	-506.982
896	126.334	-2.06E+02	857.03	-460.523
897	122.879	-1.86E+02	821.672	-414.673
898	121.421	-166.278	808.79	-368.182
899	121.918	-146.551	838.684	-320.408
900	121.972	-126.821	874.636	-273.347
901	122.023	-107.091	861.731	-229.297
902	122.07	-87.3605	848.13	-183.39
903	122.114	-67.6303	831.468	-137.361
904	117.996	-46.0155	778.766	-89.4026
905	74.7069	-6.64795	493.01	-5.96782
906	67.4834	-4.44E-02	418.881	6.87581
907	67.4787	-4.91E-03	391.804	5.78162
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923	0	0	0	0
924	0	0	0	0
925	137.192	9.02772	817.657	52.9418
926	137.217	19.3777	846.38	81.6896
927	137.245	31.9117	874.073	116.111
928	137.267	44.7174	894.209	150.442
929	137.289	57.5148	913.758	184.576
930	137.313	70.3041	922.412	219.611
931	137.338	83.0846	930.94	254.952

010837

932	137.364	95.8559	930.239	290.75
933	137.391	108.618	927.475	327.086
934	137.42	121.369	939.581	363.437
935	137.449	134.11	961.536	399.789
936	138.259	146.841	971.239	435.553
937	140.384	159.509	960.178	470.191
938	142.593	171.793	951.057	503.35
939	146.587	182.45	960.19	533.658
940	150.466	192.804	969.063	563.101
941	147.318	193.104	952.12	562.844
942	142.303	190.242	928.87	553.359
943	138.033	187.805	909.075	545.284
944	135.449	186.877	891.907	541.688
945	133.44	186.375	876.493	539.409
946	131.63	185.922	862.611	537.356
947	130.014	185.518	850.207	535.522
948	128.624	185.214	838.974	534.096
949	127.601	185.156	828.515	533.621
950	126.672	185.103	819.026	533.189
951	125.782	1.85E+02	809.931	532.775
952	124.923	1.85E+02	801.151	532.376
953	124.094	184.957	792.676	531.99
954	123.294	184.912	784.496	531.618
955	122.524	184.843	777.285	531.166
956	121.786	184.7	772.429	530.439
957	75.9487	110.331	522.206	316.924
958	75.9487	110.331	522.206	316.924
959	75.9487	110.331	522.206	316.924
960	75.9487	110.331	522.206	316.924
961	75.9487	110.331	522.206	316.924
962	75.9487	110.331	522.206	316.924
963	75.9487	110.331	522.206	316.924
964	73.2873	105.517	507.665	303.408
965	71.3926	102.09	497.314	293.786
966	65.7536	91.5667	466.463	264.372
967	60.5151	81.3813	442.019	236.045
968	55.6832	71.5333	428.333	208.763
969	55.37	70.8691	427.574	206.925
970	51.761	63.1166	418.972	185.505
971	48.345	55.3643	411.411	164.191
972	45.2256	47.6118	405.609	142.855
973	42.3865	3.99E+01	399.972	121.717
974	37.5659	2.35E+01	388.298	77.4301
975	36.1482	17.0493	383.551	59.8892
976	36.1482	17.0493	383.551	59.8892
977	36.1482	17.0493	383.551	59.8892
978	36.1482	17.0493	383.551	59.8892
979	36.1482	17.0493	383.551	59.8892
980	36.1482	17.0493	383.551	59.8892
981	36.1482	17.0493	383.551	59.8892
982	36.1482	17.0493	383.551	59.8892
983	36.1482	17.0493	383.551	59.8892
984	36.1482	17.0493	383.551	59.8892
985	36.1482	17.0493	383.551	59.8892
986	29.3199	7.75649	320.411	32.7257
987	23.0058	6.0861	251.409	25.6781

010838

988	16.6916	4.41572	182.408	18.6305
989	10.3775	2.74533	113.406	11.5829
990	4.06336	1.07495	44.4048	4.53536
991	120.764	184.501	765.695	529.431
992	119.031	184.164	754.282	527.723
993	117.352	183.837	743.226	526.068
994	115.825	183.516	739.34	524.646
995	114.417	183.202	740.588	523.401
996	113.057	182.898	741.793	522.198
997	111.743	182.605	742.957	521.036
998	111.078	182.644	747.326	521.168
999	110.874	182.917	753.927	522.21
1000	110.675	183.182	760.33	523.22
1001	110.484	183.436	766.475	524.19
1002	110.298	183.684	772.469	525.136
1003	110.503	183.866	771.371	525.84
1004	110.719	184.044	770.048	526.532
1005	110.931	184.219	768.749	527.212
1006	160.495	-322.503	1072.43	-728.803
1007	152.644	-302.777	991.015	-685.82
1008	146.784	-283.052	942.465	-640.624
1009	1.41E+02	-2.63E+02	905.868	-5.94E+02
1010	135.898	-2.44E+02	880.703	-548.702
1011	130.622	-2.24E+02	877.447	-503.307
1012	125.958	-204.144	855.24	-456.773
1013	122.648	-184.416	818.304	-411.004
1014	121.468	-164.688	811.115	-364.322
1015	121.922	-144.96	841.581	-316.615
1016	121.977	-125.23	877.534	-269.554
1017	122.027	-105.5	860.174	-225.778
1018	122.074	-85.7703	847.315	-179.579
1019	122.117	-66.04	829.214	-133.799
1020	114.507	-42.8424	755.733	-82.6775
1021	71.2182	-3.47527	469.981	0.756296
1022	67.483	-4.12E-02	416.699	6.78762
1023	67.4783	-1.72E-03	389.622	5.69342
1024	0	0	0	0
1025	0	0	0	0
1026	0	0	0	0
1027	0	0	0	0
1028	0	0	0	0
1029	0	0	0	0
1030	0	0	0	0
1031	0	0	0	0
1032	0	0	0	0
1033	0	0	0	0
1034	0	0	0	0
1035	0	0	0	0
1036	0	0	0	0
1037	0	0	0	0
1038	0	0	0	0
1039	0	0	0	0
1040	0	0	0	0
1041	137.194	9.86192	822.992	55.3144
1042	137.219	20.2119	848.43	84.0017
1043	137.247	32.944	875.696	118.879

010839

1044	137.269	45.7491	895.832	153.208
1045	137.291	58.546	914.456	187.401
1046	137.315	71.3345	923.025	222.712
1047	137.34	84.1143	931.633	257.777
1048	137.366	96.8848	929.935	293.88
1049	137.393	109.646	927.252	330.013
1050	137.422	122.397	941.351	366.368
1051	137.452	1.35E+02	963.36	402.488
1052	138.431	1.48E+02	970.343	438.357
1053	140.565	160.587	959.237	473.138
1054	143.029	172.955	952.053	506.655
1055	147.173	184.015	961.531	538.107
1056	151.279	194.973	970.922	569.27
1057	145.677	192.168	944.511	559.74
1058	140.039	188.949	918.371	549.076
1059	135.785	186.961	894.491	542.07
1060	132.896	186.239	872.323	538.792
1061	130.146	185.551	851.226	535.673
1062	127.909	185.174	831.665	533.764
1063	126.136	185.073	813.543	532.94
1064	124.587	184.985	797.712	532.219
1065	123.159	184.904	783.122	531.556
1066	121.861	184.714	772.92	530.513
1067	120.678	184.484	765.127	529.346
1068	119.599	184.274	758.023	528.283
1069	118.504	184.061	750.814	527.204
1070	117.401	183.846	743.549	526.116
1071	116.322	183.627	738.899	525.086
1072	115.262	183.39	739.839	524.148
1073	114.131	183.138	740.841	523.148
1074	112.93	182.87	741.906	522.085
1075	111.658	1.83E+02	743.033	520.96
1076	111.052	1.83E+02	748.188	521.304
1077	86.803	142.067	618.437	405.594
1078	33.9983	-17.1185	452.29	-25.2226
1079	33.9983	-17.1185	452.29	-25.2226
1080	33.9983	-17.1185	452.29	-25.2226
1081	33.5091	-16.5592	446.342	-24.0821
1082	25.3181	-12.5115	337.237	-18.1954
1083	17.1271	-8.4637	228.133	-12.3088
1084	17.4482	-8.62238	232.41	-12.5395
1085	13.5873	-6.71446	180.983	-9.76483
1086	8.9393	-4.41754	119.072	-6.42443
1087	0.421778	0.125384	5.60004	0.548276
1088	69.9017	111.014	523.625	318.418
1089	110.57	183.321	763.699	523.752
1090	110.371	183.588	770.133	524.768
1091	110.435	183.81	771.785	525.623
1092	110.669	184.003	770.353	526.373
1093	110.902	184.195	768.93	527.117
1094	111.131	184.384	767.526	527.852
1095	111.357	184.571	766.142	528.576
1096	111.381	184.368	764.416	528.233
1097	111.39	184.142	762.693	527.824
1098	111.398	183.919	761	527.422
1099	169.823	-335.694	1108.67	-755.036

010840

1100	167.364	-333.553	1103.48	-751.771
1101	36.8714	-45.4567	498.555	-92.3487
1102	14.3722	4.58834	222.448	20.5998
1103	14.3722	4.58834	222.448	20.5998
1104	14.3722	4.58834	222.448	20.5998
1105	30.2353	17.3812	447.175	63.2564
1106	30.5667	19.052	447.372	67.7414
1107	30.9742	20.7227	447.643	72.2347
1108	31.3817	22.3934	447.914	76.728
1109	30.1858	17.0904	447.149	62.4765
1110	30.1858	17.0904	447.149	62.4765
1111	30.3014	17.7695	447.211	64.2976
1112	29.9783	15.8721	447.039	59.2099
1113	161.948	-325.237	1081.56	-734.597
1114	154.573	-307.623	1011.02	-696.379
1115	148.068	-287.769	952.146	-651.561
1116	142.634	-2.68E+02	913.569	-605.391
1117	137.06	-2.48E+02	881.355	-558.676
1118	131.755	-228.137	878.378	-513.136
1119	126.947	-208.328	859.95	-466.643
1120	123.243	-188.513	826.98	-420.456
1121	121.351	-168.716	805.224	-374.101
1122	121.911	-148.945	833.939	-326.468
1123	121.966	-129.194	870.311	-279.008
1124	122.017	-109.461	864.053	-234.541
1125	122.065	-89.7306	849.216	-189.255
1126	122.109	-70.0004	834.827	-142.669
1127	122.149	-50.27	806.862	-98.477
1128	79.9066	-11.3766	527.334	-15.9895
1129	67.484	-4.91E-02	422.133	7.00725
1130	67.4793	-9.65E-03	395.057	5.91306
1131	0	0	0	0
1132	0	0	0	0
1133	0	0	0	0
1134	0	0	0	0
1135	0	0	0	0
1136	0	0	0	0
1137	0	0	0	0
1138	0	0	0	0
1139	0	0	0	0
1140	0	0	0	0
1141	0	0	0	0
1142	0	0	0	0
1143	0	0	0	0
1144	0	0	0	0
1145	0	0	0	0
1146	0	0	0	0
1147	0	0	0	0
1148	137.189	7.78443	814.391	49.4918
1149	137.214	18.1344	843.324	78.2435
1150	137.242	30.373	871.653	111.986
1151	137.264	43.1794	891.811	146.207
1152	137.286	55.978	911.954	180.423
1153	137.31	68.7682	921.297	215.671
1154	137.335	81.5498	929.906	250.741
1155	137.361	94.3222	930.48	286.614

010841

1156	137.388	107.085	927.766	322.8
1157	137.416	119.838	936.942	359.068
1158	137.446	132.581	958.899	395.424
1159	138.002	145.31	972.576	431.366
1160	140.132	158.006	961.49	466.081
1161	142.165	170.649	950.077	500.096
1162	146.287	181.651	959.506	531.386
1163	150.361	192.523	968.822	562.302
1164	147.081	192.969	951.021	562.395
1165	141.44	189.749	924.867	551.726
1166	136.627	187.172	900.951	543.025
1167	133.829	186.472	879.483	539.851
1168	131.175	185.808	859.116	536.839
1169	128.708	185.219	839.834	534.135
1170	126.939	185.119	821.754	533.313
1171	125.249	185.023	804.484	532.528
1172	123.618	184.93	787.811	531.769
1173	122.046	184.75	774.14	530.696
1174	120.532	184.456	764.168	529.203
1175	119.07	184.171	754.539	527.761
1176	117.633	183.892	745.077	526.345
1177	116.264	183.614	738.951	525.034
1178	115.01	183.334	740.062	523.926
1179	113.746	183.052	741.182	522.807
1180	112.48	182.769	742.304	521.688
1181	111.222	182.488	743.42	520.574
1182	110.995	182.755	750.001	521.59
1183	110.792	183.026	756.56	522.625
1184	110.592	183.292	762.995	523.641
1185	110.396	183.554	769.31	524.638
1186	110.401	183.781	771.997	525.513
1187	110.633	183.973	770.572	526.258
1188	110.864	184.164	769.162	526.996
1189	111.092	184.352	767.767	527.726
1190	111.317	184.538	766.388	528.447
1191	111.379	184.404	764.692	528.299
1192	111.389	184.155	762.798	527.849
1193	111.399	183.893	760.804	527.375
1194	111.41	183.618	758.709	526.878
1195	111.292	183.093	755.908	525.718
1196	111.022	182.278	752.297	523.785
1197	110.739	181.426	748.525	521.767
1198	66.4274	107.813	496.711	313.023
1199	48.785	-91.6928	442.752	-200.455
1200	48.785	-91.6928	442.752	-200.455
1201	48.785	-91.6928	442.752	-200.455
1202	48.785	-91.6928	442.752	-200.455
1203	48.785	-91.6928	442.752	-200.455
1204	48.785	-91.6928	442.752	-200.455
1205	48.785	-91.6928	442.752	-200.455
1206	48.785	-9.17E+01	442.752	-200.455
1207	48.785	-9.17E+01	442.752	-200.455
1208	48.785	-91.6928	442.752	-200.455
1209	48.785	-91.6928	442.752	-200.455
1210	48.785	-91.6928	442.752	-200.455
1211	48.785	-91.6928	442.752	-200.455

010842

1212	48.9205	-92.0254	442.957	-201.24
1213	48.947	-92.0904	442.997	-201.393
1214	48.9463	-92.0887	442.996	-201.389
1215	49.0404	-92.3196	443.139	-201.934
1216	47.9614	-89.6714	441.503	-195.683
1217	47.9435	-89.6276	441.476	-195.579
1218	47.9659	-89.6824	441.51	-195.709
1219	48.9339	-92.0584	442.977	-201.318
1220	49.0606	-92.3693	443.169	-202.052
1221	49.1873	-92.6802	443.361	-202.786
1222	48.4751	-90.9321	442.282	-198.659
1223	47.5145	-88.5745	440.826	-193.093
1224	46.5436	-86.1917	439.354	-187.468
1225	45.5728	-83.8089	437.883	-181.842
1226	44.6572	-81.4261	436.625	-176.195
1227	43.7552	-79.0434	435.42	-170.541
1228	43.3621	-78.0047	434.895	-168.077
1229	43.3621	-78.0047	434.895	-168.077
1230	43.3621	-78.0047	434.895	-168.077
1231	43.3621	-78.0047	434.895	-168.077
1232	43.3621	-78.0047	434.895	-168.077
1233	43.3621	-7.80E+01	434.895	-168.077
1234	43.3621	-7.80E+01	434.895	-168.077
1235	43.3621	-78.0047	434.895	-168.077
1236	43.3621	-78.0047	434.895	-168.077
1237	43.3621	-78.0047	434.895	-168.077
1238	43.3621	-78.0047	434.895	-168.077
1239	43.3621	-78.0047	434.895	-168.077
1240	43.3621	-78.0047	434.895	-168.077
1241	43.3621	-78.0047	434.895	-168.077
1242	43.3621	-78.0047	434.895	-168.077
1243	43.3621	-78.0047	434.895	-168.077
1244	171.375	-333.762	1104.17	-748.379
1245	170.822	-335.423	1107.85	-753.286
1246	169.626	-335.644	1108.6	-755.11
1247	167.281	-333.426	1103.14	-751.507
1248	162.167	-325.573	1082.45	-735.291
1249	155.807	-310.726	1023.82	-703.14
1250	149.718	-293.829	964.584	-665.613
1251	144.988	-276.931	929.411	-625.867
1252	140.479	-260.349	900.781	-587.528
1253	47.4086	-54.8465	450.546	-116.366
1254	47.4086	-54.8465	450.546	-116.366
1255	47.4086	-54.8465	450.546	-116.366
1256	47.4086	-54.8465	450.546	-116.366
1257	47.4086	-54.8465	450.546	-116.366
1258	43.1708	-39.0803	438.678	-78.8729
1259	42.7689	-37.5086	437.514	-75.1291
1260	42.3671	-35.937	436.351	-71.3853
1261	41.9929	-34.3653	435.23	-67.6359
1262	41.7418	-32.7937	434.297	-63.8613
1263	43.2239	-39.2879	438.831	-79.3676
1264	43.2239	-39.2879	438.831	-79.3676
1265	43.2239	-39.2879	438.831	-79.3676
1266	43.2239	-39.2879	438.831	-79.3676
1267	43.2239	-39.2879	438.831	-79.3676

010843

1268	43.2239	-39.2879	438.831	-79.3676
1269	43.2239	-39.2879	438.831	-79.3676
1270	43.2239	-39.2879	438.831	-79.3676
1271	43.2239	-39.2879	438.831	-79.3676
1272	43.2239	-39.2879	438.831	-79.3676
1273	43.2239	-39.2879	438.831	-79.3676
1274	43.2239	-39.2879	438.831	-79.3676
1275	42.3599	-35.9087	436.33	-71.3179
1276	41.1618	-29.1634	432.143	-55.1423
1277	40.084	-22.418	428.141	-38.9422
1278	35.5245	-15.6726	384.57	-24.1629
1279	20.2344	-8.93E+00	219.048	-13.763
1280	4.94437	-2.18E+00	53.5252	-3.36304
1281	137.589	-249.885	882.906	-563.179
1282	132.673	-231.561	878.893	-521.013
1283	127.758	-211.758	863.811	-474.733
1284	123.708	-191.716	833.764	-427.846
1285	121.271	-171.458	801.214	-380.758
1286	121.855	-151.334	830.648	-331.898
1287	121.96	-131.323	866.431	-284.086
1288	122.012	-111.347	865.9	-238.714
1289	122.061	-91.3993	850.2	-193.068
1290	122.106	-71.476	836.919	-145.974
1291	122.147	-51.5712	808.706	-101.391
1292	82.4083	-13.6516	543.847	-20.8112
1293	67.4842	-5.13E-02	423.576	7.06555
1294	67.4795	-1.17E-02	396.455	5.96958
1295	0	0	0	0
1296	0	0	0	0
1297	0	0	0	0
1298	0	0	0	0
1299	0	0	0	0
1300	0	0	0	0
1301	0	0	0	0
1302	0	0	0	0
1303	0	0	0	0
1304	0	0	0	0
1305	0	0	0	0
1306	0	0	0	0
1307	0	0	0	0
1308	0	0	0	0
1309	0	0	0	0
1310	0	0	0	0
1311	0	0	0	0
1312	137.188	7.19091	816.428	47.911
1313	137.212	17.4502	841.642	76.3472
1314	137.24	29.4015	870.126	109.381
1315	137.262	42.0551	890.023	143.305
1316	137.284	54.7116	909.925	177.236
1317	137.308	67.3744	920.358	211.847
1318	137.332	80.0465	928.893	246.616
1319	137.358	92.7304	930.819	282.101
1320	137.384	105.42	928.168	317.981
1321	137.412	118.112	933.968	354.142
1322	137.442	130.834	955.889	390.44
1323	137.704	143.567	974.137	426.281

010844

1535

1324	139.844	1.56E+02	962.988	461.39
1325	141.977	1.69E+02	951.888	496.15
1326	145.777	180.29	958.338	527.513
1327	149.896	191.282	967.759	558.774
1328	147.68	193.311	953.797	563.528
1329	141.942	190.036	927.194	552.675
1330	136.931	187.248	903.277	543.369
1331	134.189	186.562	882.239	540.259
1332	131.668	185.932	862.898	537.399
1333	129.335	185.348	845.001	534.752
1334	127.598	185.156	828.487	533.619
1335	126.122	185.072	813.399	532.933
1336	124.792	184.997	799.805	532.315
1337	123.627	184.931	787.905	531.773
1338	122.581	184.855	777.662	531.223
1339	121.655	184.674	771.567	530.31
1340	120.835	184.515	766.164	529.502
1341	120.069	184.366	761.119	528.746
1342	119.28	184.212	755.926	527.969
1343	118.505	184.061	750.82	527.205
1344	117.754	183.915	745.873	526.464
1345	116.996	183.768	740.88	525.717
1346	116.219	183.604	738.991	524.994
1347	115.411	183.424	739.707	524.28
1348	114.553	183.232	740.467	523.521
1349	113.663	183.034	741.256	522.734
1350	112.723	182.824	742.089	521.902
1351	111.725	182.601	742.974	521.02
1352	111.111	182.601	746.284	521.003
1353	110.921	182.853	752.386	521.966
1354	110.727	183.113	758.659	522.957
1355	110.536	1.83E+02	764.818	523.929
1356	110.348	1.84E+02	770.875	524.885
1357	110.447	183.82	771.713	525.661
1358	110.663	183.998	770.39	526.353
1359	110.874	184.172	769.1	527.028
1360	111.08	184.342	767.841	527.687
1361	111.282	184.508	766.606	528.333
1362	111.376	184.469	765.189	528.417
1363	111.385	184.265	763.636	528.048
1364	111.393	184.064	762.099	527.683
1365	111.401	183.865	760.585	527.324
1366	111.408	183.669	759.094	526.969
1367	111.416	183.47	757.583	526.61
1368	111.225	182.89	755.007	525.236
1369	111.015	182.258	752.211	523.739
1370	110.791	181.581	749.215	522.136
1371	110.556	180.872	746.075	520.455
1372	41.1223	-72.0877	431.902	-154.039
1373	47.6616	-88.9357	441.049	-193.946
1374	48.6457	-91.351	442.541	-199.648
1375	43.7269	-78.9686	435.382	-170.364
1376	37.0247	-60.554	426.683	-126.622
1377	31.3264	-41.8614	420.069	-81.9861
1378	27.4821	-23.6017	416.013	-38.0893
1379	10.1932	-6.44452	160.425	-8.26371

010845

1380	25.1269	11.3828	377.145	49.4225
1381	104.255	-212.462	726.027	-480.357
1382	171.038	-334.773	1106.41	-751.365
1383	169.942	-335.725	1108.7	-754.991
1384	167.645	-333.984	1104.61	-752.66
1385	161.773	-324.968	1080.85	-734.04
1386	154.292	-306.919	1008.11	-694.845
1387	148.432	-289.105	954.889	-654.66
1388	29.7548	8.34449	325.495	35.6798
1389	32.7122	9.36815	357.538	39.733
1390	32.8718	10.3919	357.728	42.4787
1391	33.0315	11.4156	357.918	45.2243
1392	33.1911	12.4394	358.108	47.97
1393	36.7709	29.4156	362.918	93.6749
1394	37.5586	32.109	363.775	100.95
1395	38.286	34.5962	364.567	107.668
1396	38.7743	36.2659	365.098	112.178
1397	36.9677	30.0884	363.132	95.4922
1398	36.9677	30.0884	363.132	95.4922
1399	36.9677	30.0884	363.132	95.4922
1400	36.9677	30.0884	363.132	95.4922
1401	36.9677	30.0884	363.132	95.4922
1402	36.9677	30.0884	363.132	95.4922
1403	36.3966	28.1359	362.51	90.2184
1404	38.4655	35.2101	364.762	109.326
1405	38.4655	35.2101	364.762	109.326
1406	40.1419	4.03E+01	366.636	123.099
1407	41.427	4.40E+01	368.086	133.216
1408	36.9677	30.0884	363.132	95.4922
1409	144.359	-274.643	924.58	-620.542
1410	138.941	-254.781	891.27	-574.573
1411	133.496	-234.635	879.355	-528.081
1412	128.45	-214.685	867.106	-481.638
1413	124.153	-194.781	840.257	-434.919
1414	121.27	-174.918	798.187	-389.089
1415	121.746	-155.091	825.152	-341.021
1416	121.949	-135.296	859.192	-293.563
1417	122.002	-115.528	869.995	-247.965
1418	122.051	-95.7842	852.447	-203.576
1419	122.096	-76.0538	842.334	-156.295
1420	122.137	-56.3235	815.442	-112.036
1421	93.1877	-23.4544	615.003	-41.5871
1422	67.4854	-6.13E-02	430.441	7.34296
1423	67.4807	-2.18E-02	403.364	6.24876
1424	0	0	0	0
1425	0	0	0	0
1426	0	0	0	0
1427	0	0	0	0
1428	0	0	0	0
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
1434	0	0	0	0
1435	0	0	0	0

010846

1436	0	0	0	0
1437	0	0	0	0
1438	0	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	137.182	4.60897	810.082	40.7546
1442	137.207	14.959	835.519	69.442
1443	137.234	26.4418	863.741	101.269
1444	137.257	39.2512	885.629	135.706
1445	137.279	52.0521	905.743	170.106
1446	137.303	64.845	918.654	204.907
1447	137.327	77.6292	927.369	239.677
1448	137.353	90.4045	931.42	275.228
1449	137.38	103.17	928.598	311.701
1450	137.407	115.926	930.221	347.885
1451	137.437	128.672	952.165	384.273
1452	137.466	1.41E+02	974.177	420.31
1453	139.437	1.54E+02	964.694	455.075
1454	141.615	166.847	953.771	490.254
1455	145.075	178.415	956.732	522.181
1456	149.2	189.424	966.166	553.49
1457	148.705	193.896	958.549	565.466
1458	142.847	190.552	931.392	554.388
1459	137.394	187.44	906.11	544.074
1460	134.303	186.591	883.116	540.388
1461	131.428	185.872	861.063	537.127
1462	128.713	185.219	839.877	534.137
1463	126.733	185.107	819.646	533.217
1464	124.804	184.998	799.933	532.32
1465	122.923	184.891	780.712	531.446
1466	121.109	184.568	767.971	529.772
1467	119.333	184.222	756.274	528.021
1468	117.59	183.883	744.795	526.303
1469	115.956	183.545	739.224	524.762
1470	114.451	183.209	740.558	523.431
1471	112.984	182.882	741.857	522.134
1472	111.555	182.563	743.124	520.869
1473	111.026	182.714	749.011	521.434
1474	110.798	183.017	756.348	522.592
1475	110.575	183.315	763.546	523.728
1476	110.356	183.607	770.608	524.843
1477	110.473	183.841	771.555	525.744
1478	110.724	184.049	770.015	526.549
1479	110.97	184.251	768.515	527.334
1480	111.208	184.447	767.057	528.097
1481	111.375	184.513	765.523	528.496
1482	111.384	184.281	763.758	528.077
1483	111.393	184.057	762.047	527.671
1484	111.402	183.839	760.388	527.277
1485	111.41	1.84E+02	758.78	526.895
1486	111.374	1.83E+02	757.001	526.303
1487	111.192	182.792	754.573	525.003
1488	111.013	182.252	752.186	523.726
1489	110.838	181.722	749.84	522.47
1490	110.665	181.201	747.533	521.236
1491	110.496	180.689	745.267	520.023

010847

1492	26.0915	16.0129	377.762	61.8438
1493	26.0915	16.0129	377.762	61.8438
1494	26.0915	16.0129	377.762	61.8438
1495	26.3208	17.1133	377.909	64.7958
1496	26.0915	16.0129	377.762	61.8438
1497	26.0915	16.0129	377.762	61.8438
1498	26.1213	16.1557	377.781	62.2268
1499	26.0926	16.018	377.763	61.8574
1500	26.0915	16.0129	377.762	61.8438
1501	26.0915	16.0129	377.762	61.8438
1502	26.0915	16.0129	377.762	61.8438
1503	26.0915	16.0129	377.762	61.8438
1504	26.0915	16.0129	377.762	61.8438
1505	26.0915	16.0129	377.762	61.8438
1506	26.0915	16.0129	377.762	61.8438
1507	26.0915	16.0129	377.762	61.8438
1508	26.0915	16.0129	377.762	61.8438
1509	26.0915	16.0129	377.762	61.8438
1510	26.0915	16.0129	377.762	61.8438
1511	26.0915	16.0129	377.762	61.8438
1512	26.0915	16.0129	377.762	61.8438
1513	26.0915	16.0129	377.762	61.8438
1514	26.0915	16.0129	377.762	61.8438
1515	26.0915	16.0129	377.762	61.8438
1516	26.0915	16.0129	377.762	61.8438
1517	26.0915	16.0129	377.762	61.8438
1518	26.0915	16.0129	377.762	61.8438
1519	26.0915	16.0129	377.762	61.8438
1520	26.0915	16.0129	377.762	61.8438
1521	26.0915	16.0129	377.762	61.8438
1522	27.1042	20.1116	378.481	72.8563
1523	30.8821	32.2669	381.561	105.604
1524	35.4557	44.4221	385.924	138.513
1525	40.6916	56.5772	391.372	171.79
1526	46.3377	68.7323	398.76	205.054
1527	52.2912	80.8873	416.414	238.467
1528	58.3028	92.5901	450.402	270.801
1529	58.3028	92.5901	450.402	270.801
1530	58.3028	92.5901	450.402	270.801
1531	58.3028	92.5901	450.402	270.801
1532	54.1406	84.5153	426.648	248.482
1533	49.0727	74.3861	404.925	220.578
1534	44.2051	64.2569	395.808	192.783
1535	39.5789	54.1277	389.991	165.097
1536	35.2902	43.9984	385.761	137.364
1537	31.4348	33.8691	382.045	109.928
1538	29.6777	28.776	380.506	96.1842
1539	38.9837	-6.64E+01	429.055	-140.56
1540	171.091	-3.35E+02	1106.06	-750.896
1541	170.052	-335.753	1108.74	-754.949
1542	167.947	-3.34E+02	1105.84	-753.617
1543	161.977	-3.25E+02	1081.68	-734.688
1544	154.432	-307.27	1009.56	-695.611
1545	148.007	-287.546	951.688	-651.045
1546	142.543	-267.821	913.545	-604.916
1547	137.103	-248.095	881.379	-559.039

010843

1548	131.817	-228.366	878.412	-513.662
1549	127.02	-208.638	860.299	-467.374
1550	123.301	-188.91	827.823	-421.374
1551	121.337	-169.183	804.542	-375.234
1552	121.909	-149.455	833.396	-327.337
1553	121.964	-129.725	869.343	-280.275
1554	122.016	-109.995	864.576	-235.724
1555	122.064	-90.2652	849.618	-190.35
1556	122.108	-70.5349	835.585	-143.867
1557	122.148	-50.8046	807.62	-99.6743
1558	81.0794	-12.4431	535.075	-18.2499
1559	67.4841	-5.02E-02	422.867	7.03689
1560	67.4794	-1.07E-02	395.79	5.9427
1561	0	0	0	0
1562	0	0	0	0
1563	0	0	0	0
1564	0	0	0	0
1565	0	0	0	0
1566	0	0	0	0
1567	0	0	0	0
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1571	0	0	0	0
1572	0	0	0	0
1573	0	0	0	0
1574	0	0	0	0
1575	0	0.00E+00	0	0
1576	0	0.00E+00	0	0
1577	0	0	0	0
1578	137.189	7.50401	817.197	48.7789
1579	137.213	17.854	842.635	77.4662
1580	137.241	30.0258	871.107	111.055
1581	137.263	42.8325	891.245	145.389
1582	137.285	55.6314	911.408	179.496
1583	137.31	68.4218	921.064	214.721
1584	137.334	81.2036	929.673	249.791
1585	137.36	93.9763	930.554	285.633
1586	137.387	106.739	927.839	321.82
1587	137.415	119.493	936.373	358.021
1588	137.445	132.235	958.305	394.439
1589	137.944	144.968	972.875	430.43
1590	140.079	157.69	961.766	465.217
1591	142.206	170.393	950.633	499.949
1592	146.232	181.504	959.379	530.967
1593	150.347	192.486	968.79	562.196
1594	147.022	192.935	950.748	562.284
1595	141.286	189.661	924.154	551.435
1596	136.463	187.131	899.688	542.839
1597	133.542	186.4	877.282	539.525
1598	130.757	185.704	855.912	536.366
1599	128.295	185.195	835.609	533.943
1600	126.404	185.088	816.288	533.064
1601	124.579	184.985	797.638	532.216
1602	122.818	184.885	779.637	531.397
1603	121.165	184.579	768.337	529.827

010849

1604	119.572	184.269	757.845	528.256
1605	118.04	183.971	747.755	526.746
1606	116.572	183.683	738.677	525.307
1607	115.277	183.394	739.825	524.162
1608	113.993	183.107	740.964	523.026
1609	112.741	182.828	742.073	521.918
1610	111.505	182.552	743.169	520.825
1611	111.049	182.684	748.287	521.32
1612	110.852	182.946	754.626	522.32
1613	110.662	183.2	760.761	523.288
1614	110.478	183.445	766.686	524.224
1615	110.301	183.681	772.393	525.124
1616	110.486	183.851	771.477	525.785
1617	110.681	184.013	770.28	526.411
1618	110.869	184.168	769.129	527.013
1619	111.05	184.317	768.023	527.591
1620	111.226	184.462	766.946	528.155
1621	111.373	184.555	765.839	528.571
1622	111.38	184.379	764.502	528.254
1623	111.387	184.208	763.201	527.945
1624	111.394	184.042	761.932	527.643
1625	111.4	183.878	760.684	527.347
1626	111.407	183.716	759.456	527.055
1627	111.413	183.556	758.233	526.765
1628	111.353	183.277	756.72	526.152
1629	111.213	182.856	754.856	525.155
1630	111.076	182.441	753.022	524.173
1631	110.941	182.034	751.219	523.209
1632	110.808	181.634	749.447	522.26
1633	110.678	181.24	747.705	521.328
1634	110.55	180.853	745.993	520.412
1635	82.6656	136.421	587.998	393.435
1636	125.322	-253.444	845.559	-572.695
1637	170.966	-3.35E+02	1106.89	-752.007
1638	169.693	-3.36E+02	1108.62	-755.085
1639	166.521	-332.258	1100.07	-749.097
1640	160.257	-321.906	1069.96	-727.502
1641	152.294	-301.897	987.385	-683.903
1642	146.49	-281.975	940.255	-638.127
1643	140.972	-262.134	903.831	-591.683
1644	135.568	-242.367	880.518	-545.867
1645	130.33	-222.638	876.06	-500.4
1646	125.666	-202.911	853.852	-453.865
1647	122.469	-183.184	815.693	-408.16
1648	121.503	-163.456	812.918	-361.329
1649	121.925	-143.728	843.828	-313.675
1650	121.98	-123.998	878.016	-266.973
1651	122.03	-104.268	858.82	-223.274
1652	122.077	-84.5375	846.683	-176.625
1653	122.12	-64.8072	827.467	-131.038
1654	111.802	-40.3825	737.878	-77.4641
1655	68.5136	-1.01574	452.128	5.96897
1656	67.4827	-3.88E-02	415.007	6.71925
1657	0	0.00E+00	0	0
1658	0	0	0	0
1659	0	0	0	0

010850

1660	0	0	0	0
1661	0	0	0	0
1662	0	0	0	0
1663	0	0	0	0
1664	0	0	0	0
1665	0	0	0	0
1666	0	0	0	0
1667	0	0	0	0
1668	0	0	0	0
1669	0	0	0	0
1670	0	0	0	0
1671	0	0	0	0
1672	0	0	0	0
1673	0	0	0	0
1674	137.171	0.158625	799.144	28.4194
1675	137.196	10.5086	824.582	57.1068
1676	137.221	20.9323	850.201	85.9986
1677	137.248	33.7443	876.962	120.984
1678	137.27	46.5488	897.089	155.352
1679	137.292	59.3453	914.996	189.591
1680	137.317	72.1333	923.65	224.622
1681	137.341	84.9125	932.171	259.967
1682	137.368	97.6824	929.844	295.95
1683	137.395	110.443	927.079	332.282
1684	137.424	123.193	942.756	368.539
1685	137.454	135.945	964.696	405.022
1686	138.577	148.74	969.581	440.744
1687	140.733	161.587	958.364	475.872
1688	143.42	173.999	952.948	509.626
1689	147.649	185.284	962.619	541.717
1690	150.857	195.124	968.525	569.536
1691	144.634	191.572	939.677	557.768
1692	138.825	188.256	912.745	546.781
1693	135.107	186.792	889.289	541.301
1694	132.222	1.86E+02	867.147	538.027
1695	129.453	1.85E+02	845.909	534.886
1696	127.325	185.14	825.696	533.492
1697	125.41	185.032	806.129	532.602
1698	123.529	184.925	786.905	531.728
1699	121.68	1.85E+02	771.728	5.30E+02
1700	119.899	184.333	759.998	528.579
1701	118.171	183.996	748.62	526.875
1702	116.511	183.669	738.732	525.253
1703	115.043	183.341	740.033	523.955
1704	113.612	183.022	741.301	522.689
1705	112.218	182.711	742.536	521.456
1706	0.335314	-0.159649	3.81832	-0.239239
1707	0.335314	-0.159649	3.81832	-0.239239
1708	0.335314	-0.159649	3.81832	-0.239239
1709	0.335314	-0.159649	3.81832	-0.239239
1710	0.335314	-0.159649	3.81832	-0.239239
1711	0.335314	-0.159649	3.81832	-0.239239
1712	0.335314	-0.159649	3.81832	-0.239239
1713	0.335314	-0.159649	3.81832	-0.239239
1714	0.335314	-0.159649	3.81832	-0.239239
1715	0.335314	-0.159649	3.81832	-0.239239

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1716	0.335314	-0.159649	3.81832	-0.239239
1717	4.39915	1.26374	50.0365	5.4175
1718	4.65796	-2.21773	53.0415	-3.32334
1719	2.65838	0.76367	30.2368	3.27377
1720	13.521	3.88417	153.79	16.651
1721	24.3837	7.00467	277.343	30.0282
1722	111.167	182.527	744.482	520.719
1723	110.962	182.8	751.092	521.762
1724	110.766	183.06	757.384	522.755
1725	110.581	183.307	763.36	523.699
1726	110.402	183.545	769.111	524.606
1727	110.37	183.756	772.185	525.414
1728	110.575	183.925	770.931	526.07
1729	110.776	184.091	769.699	526.715
1730	110.974	184.255	768.487	527.349
1731	111.169	184.415	767.295	527.973
1732	111.36	184.573	766.124	528.585
1733	111.379	184.4	764.665	528.292
1734	111.387	1.84E+02	763.211	527.947
1735	111.394	1.84E+02	761.782	527.608
1736	111.402	183.837	760.377	527.274
1737	111.409	183.656	758.996	526.946
1738	111.416	183.478	757.639	526.624
1739	170.719	-335.732	1108.54	-754.198
1740	169.095	-335.508	1108.43	-755.31
1741	164.331	-328.895	1091.2	-742.152
1742	157.165	-314.136	1037.9	-710.572
1743	149.705	-293.78	964.484	-665.5
1744	18.2924	-8.54581	201.449	-12.8499
1745	48.3699	61.6019	378.472	181.283
1746	50.8308	67.2324	384.628	196.735
1747	53.3633	72.8629	391.761	212.199
1748	53.997	74.2236	394.801	215.946
1749	61.4813	89.7364	438.353	258.786
1750	62.3044	91.4061	443.275	263.406
1751	63.1524	93.0758	448.264	268.042
1752	64.004	94.7455	453.261	272.68
1753	63.911	94.5632	452.716	272.174
1754	61.1221	89.0076	436.205	256.769
1755	61.1221	89.0076	436.205	256.769
1756	61.1221	89.0076	436.205	256.769
1757	61.1221	89.0076	436.205	256.769
1758	61.1221	89.0076	436.205	256.769
1759	61.1221	89.0076	436.205	256.769
1760	61.1221	8.90E+01	436.205	256.769
1761	61.1221	8.90E+01	436.205	256.769
1762	61.1221	89.0076	436.205	256.769
1763	61.1221	89.0076	436.205	256.769
1764	59.0739	84.8527	423.957	245.272
1765	55.8779	78.1985	405.467	226.903
1766	110.99	-210.997	737.813	-478.779
1767	141.391	-263.649	906.419	-595.209
1768	135.536	-242.246	880.499	-545.586
1769	129.953	-221.042	874.263	-496.635
1770	124.984	-200.026	850.604	-447.06
1771	121.888	-179.176	807.206	-398.915

010852

1772	121.648	-158.477	820.2	-349.241
1773	121.941	-138.082	854.115	-300.209
1774	121.996	-1.18E+02	872.344	-253.271
1775	122.046	-9.79E+01	853.528	-208.63
1776	122.092	-77.9597	843.311	-160.862
1777	122.133	-58.0617	817.906	-115.929
1778	96.6607	-26.6127	637.928	-48.2807
1779	67.4858	-6.42E-02	432.443	7.42386
1780	67.4811	-2.46E-02	405.324	6.32797
1781	0	0	0	0
1782	0	0	0	0
1783	0	0	0	0
1784	0	0	0	0
1785	0	0	0	0
1786	0	0	0	0
1787	0	0	0	0
1788	0	0	0	0
1789	0	0	0	0
1790	0	0	0	0
1791	0	0	0	0
1792	0	0	0	0
1793	0	0	0	0
1794	0	0	0	0
1795	0	0	0	0
1796	0	0	0	0
1797	0	0	0	0
1798	137.18	3.83687	808.184	38.6146
1799	137.204	14.0995	833.407	67.0599
1800	137.231	25.2726	860.868	98.0286
1801	137.255	3.79E+01	883.537	132.246
1802	137.277	5.06E+01	903.44	166.18
1803	137.3	63.2477	917.578	200.524
1804	137.324	75.9126	926.109	235.274
1805	137.349	88.5846	931.701	270.347
1806	137.376	101.266	929.003	306.301
1807	137.402	113.959	926.812	342.293
1808	137.432	126.665	948.747	378.409
1809	137.462	139.388	970.63	414.847
1810	139.144	152.115	966.634	449.973
1811	141.277	164.831	955.531	484.742
1812	144.417	176.659	955.227	517.188
1813	148.548	187.685	964.676	548.543
1814	149.675	194.45	963.047	567.301
1815	143.748	191.066	935.567	556.091
1816	138.248	187.927	910.071	545.69
1817	134.806	186.716	886.973	540.958
1818	131.969	186.007	865.212	537.741
1819	129.291	185.337	844.66	534.702
1820	127.3	185.139	825.44	533.481
1821	125.511	185.038	807.163	532.649
1822	123.807	184.941	789.748	531.857
1823	122.193	184.779	775.107	530.84
1824	120.668	184.482	765.064	529.337
1825	119.284	184.213	755.947	527.972
1826	118.034	183.97	747.719	526.741
1827	116.861	183.741	739.991	525.584

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1828	115.846	183.521	739.322	524.664
1829	114.892	183.308	740.167	523.821
1830	46.5492	57.282	374.667	169.439
1831	46.5492	57.282	374.667	169.439
1832	46.5492	57.282	374.667	169.439
1833	46.5492	57.282	374.667	169.439
1834	46.5492	57.282	374.667	169.439
1835	45.8167	55.5441	373.136	164.674
1836	44.6111	52.4729	371.581	156.269
1837	43.4258	49.4017	370.289	147.866
1838	41.5003	44.243	368.169	133.793
1839	42.9055	48.0536	369.722	144.178
1840	41.7548	44.9824	368.456	135.797
1841	40.6976	41.9112	367.263	127.474
1842	39.8595	3.95E+01	366.318	120.875
1843	39.3771	3.81E+01	365.774	117.077
1844	36.9677	3.01E+01	363.132	95.4922
1845	36.9677	3.01E+01	363.132	95.4922
1846	36.9677	30.0884	363.132	95.4922
1847	36.9677	30.0884	363.132	95.4922
1848	36.9677	30.0884	363.132	95.4922
1849	69.3459	-121.887	496.091	-274.22
1850	143.414	-270.974	918.932	-612.254
1851	137.829	-250.755	884.392	-565.204
1852	132.427	-230.644	878.755	-518.903
1853	127.508	-210.702	862.622	-472.242
1854	123.575	-190.804	831.832	-425.741
1855	121.286	-170.945	801.964	-379.513
1856	121.861	-151.123	830.956	-331.387
1857	121.96	-131.331	866.418	-284.104
1858	122.012	-111.565	866.114	-239.197
1859	122.06	-91.8232	850.417	-194.084
1860	122.105	-72.0928	837.793	-147.356
1861	122.145	-52.3625	809.828	-103.164
1862	84.4972	-15.5512	557.636	-24.8372
1863	67.4845	-5.33E-02	425.005	7.12329
1864	67.4798	-1.38E-02	397.928	6.0291
1865	0	0	0	0
1866	0	0	0	0
1867	0	0	0	0
1868	0	0	0	0
1869	0	0	0	0
1870	0	0	0	0
1871	0	0	0	0
1872	0	0	0	0
1873	0	0	0	0
1874	0	0	0	0
1875	0	0	0	0
1876	0	0	0	0
1877	0	0	0	0
1878	0	0	0	0
1879	0	0	0	0
1880	0	0	0	0
1881	0	0.00E+00	0	0
1882	137.187	6.69E+00	815.189	46.5137
1883	137.211	17.0368	840.626	75.2011

019854

1884	137.24	29.0141	869.517	108.343
1885	137.262	41.8215	889.674	142.577
1886	137.284	54.6211	909.782	176.993
1887	137.308	67.4122	920.383	211.95
1888	137.332	80.1947	928.993	247.022
1889	137.358	92.9681	930.768	282.775
1890	137.385	105.732	928.053	318.964
1891	137.413	118.486	934.613	355.21
1892	137.443	131.22	956.603	391.354
1893	137.749	143.843	973.891	427.033
1894	139.85	156.327	962.956	461.49
1895	141.92	168.659	952.188	495.21
1896	145.491	179.526	957.684	525.343
1897	149.386	189.92	966.591	554.899
1898	148.853	193.98	959.234	565.746
1899	143.425	190.882	934.069	555.48
1900	138.388	188.007	910.721	545.955
1901	135.141	186.8	889.546	541.339
1902	132.54	186.15	869.591	538.388
1903	130.06	185.53	850.56	535.574
1904	127.992	185.178	832.519	533.803
1905	126.305	185.083	815.269	533.018
1906	124.669	184.99	798.552	532.258
1907	123.044	184.898	781.944	531.502
1908	121.438	184.632	770.135	530.096
1909	119.852	184.323	759.692	528.533
1910	118.363	184.034	749.882	527.064
1911	117	183.768	740.908	525.721
1912	115.849	183.522	739.318	524.668
1913	114.839	183.296	740.213	523.775
1914	113.934	183.094	741.016	522.973
1915	113.13	182.915	741.728	522.263
1916	112.428	182.758	742.35	521.642
1917	111.826	1.83E+02	742.884	521.109
1918	111.297	1.83E+02	743.353	520.641
1919	111.13	182.576	745.669	520.906
1920	111.045	182.689	748.4	521.337
1921	110.951	182.814	751.44	521.817
1922	110.844	182.957	754.88	522.36
1923	110.725	183.115	758.717	522.966
1924	156.786	-313.184	1033.97	-708.497
1925	149.262	-292.154	961.146	-661.729
1926	143.559	-271.498	919.827	-613.473
1927	137.95	-2.51E+02	885.138	-566.22
1928	132.578	-2.31E+02	878.839	-520.193
1929	127.687	-211.459	863.474	-474.028
1930	123.71	-191.731	833.797	-427.882
1931	121.255	-172.004	800.416	-382.082
1932	121.827	-152.276	829.27	-334.186
1933	121.957	-132.546	864.202	-287.005
1934	122.009	-112.816	867.339	-241.966
1935	122.057	-93.0863	851.064	-197.111
1936	122.102	-73.3561	839.584	-150.185
1937	122.143	-53.6258	811.619	-105.993
1938	87.2688	-18.0717	575.931	-30.1791
1939	67.4848	-5.59E-02	426.739	7.19335

010855

1940	67.4801	-1.64E-02	399.662	6.09916
1941	0	0	0	0
1942	0	0	0	0
1943	0	0	0	0
1944	0	0	0	0
1945	0	0	0	0
1946	0	0	0	0
1947	0	0	0	0
1948	0	0	0	0
1949	0	0	0	0
1950	0	0	0	0
1951	0	0	0	0
1952	0	0	0	0
1953	0	0	0	0
1954	0	0	0	0
1955	0	0	0	0
1956	0	0	0	0
1957	0	0	0	0
1958	137.185	6.02408	813.56	44.6769
1959	137.21	1.64E+01	838.997	73.3643
1960	137.238	2.82E+01	868.047	106.125
1961	137.26	41.0017	888.367	140.481
1962	137.282	53.8017	908.494	174.797
1963	137.306	66.5934	919.901	209.446
1964	137.331	79.3765	928.442	244.778
1965	137.356	92.1505	930.942	280.457
1966	137.383	104.915	928.227	316.647
1967	137.411	117.67	933.206	352.881
1968	137.441	130.414	955.213	389.064
1969	137.639	143.148	974.464	425.453
1970	139.774	155.872	963.354	460.245
1971	141.907	168.584	952.254	495.005
1972	145.641	179.926	958.027	526.479
1973	149.759	190.916	967.445	557.733
1974	147.939	193.459	954.996	564.017
1975	142.272	190.224	928.726	553.3
1976	137.121	187.295	904.74	543.586
1977	134.348	186.602	883.461	540.439
1978	131.755	185.954	863.569	537.498
1979	129.337	185.349	845.015	534.754
1980	127.54	185.153	827.894	533.592
1981	125.972	185.064	811.867	532.863
1982	124.502	184.98	796.849	532.18
1983	123.129	184.903	782.815	531.542
1984	121.861	184.715	772.924	530.513
1985	120.674	184.483	765.103	529.343
1986	119.524	184.26	757.533	528.21
1987	118.409	184.043	750.19	527.11
1988	117.328	183.832	743.067	526.044
1989	116.316	183.626	738.905	525.08
1990	115.396	183.42	739.72	524.266
1991	114.499	183.22	740.515	523.473
1992	113.625	183.025	741.29	522.7
1993	112.773	182.835	742.044	521.947
1994	111.943	182.65	742.78	521.213
1995	111.188	182.498	743.787	520.609

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1996	111.057	182.673	748.028	521.279
1997	110.927	182.845	752.189	521.935
1998	110.801	183.014	756.272	522.58
1999	110.677	183.18	760.274	523.211
2000	110.557	183.339	764.129	523.82
2001	110.441	183.495	767.884	524.413
2002	110.326	183.647	771.568	524.994
2003	110.386	183.769	772.086	525.466
2004	110.519	183.879	771.27	525.893
2005	110.651	183.988	770.463	526.315
2006	110.781	1.84E+02	769.672	526.729
2007	110.908	1.84E+02	768.895	527.136
2008	111.033	184.303	768.125	527.538
2009	111.155	1.84E+02	767.383	527.926
2010	111.271	1.84E+02	766.674	528.298
2011	111.372	184.572	765.971	528.603
2012	111.377	184.453	765.066	528.388
2013	168.704	-335.408	1108.31	-755.458
2014	162.735	-326.444	1084.74	-737.09
2015	155.007	-308.715	1015.52	-698.758
2016	148.181	-288.183	952.997	-652.523
2017	142.641	-267.887	913.617	-605.457
2018	137.025	-247.806	881.335	-558.374
2019	131.696	-227.914	878.344	-512.623
2020	126.91	-208.171	859.774	-466.274
2021	123.233	-188.444	826.835	-420.297
2022	121.351	-168.716	805.224	-374.101
2023	121.911	-148.989	834.241	-326.224
2024	121.966	-129.259	870.193	-279.162
2025	122.017	-109.529	864.119	-234.691
2026	122.065	-89.7986	849.251	-189.418
2027	122.109	-70.0683	834.924	-142.821
2028	122.149	-50.338	806.959	-98.6292
2029	80.0557	-11.5121	528.318	-16.2769
2030	67.484	-4.93E-02	422.227	7.01102
2031	67.4793	-9.79E-03	395.15	5.91682
2032	0	0	0	0
2033	0	0	0	0
2034	0	0	0	0
2035	0	0	0	0
2036	0	0	0	0
2037	0	0	0	0
2038	0	0	0	0
2039	0	0	0	0
2040	0	0	0	0
2041	0	0	0	0
2042	0	0	0	0
2043	0	0	0	0
2044	0	0	0	0
2045	0	0	0	0
2046	0	0	0	0
2047	0	0	0	0
2048	0	0	0	0
2049	137.189	7.74878	817.799	49.4573
2050	137.214	18.0988	841.49	78.1125
2051	137.242	30.3288	871.584	111.868

010857

2052	137.264	43.1353	891.742	146.089
2053	137.286	55.9339	911.884	180.305
2054	137.31	68.7242	921.267	215.55
2055	137.335	81.5058	929.876	250.62
2056	137.361	94.2782	930.49	286.489
2057	137.388	107.041	927.775	322.675
2058	137.416	119.794	936.867	358.942
2059	137.446	132.48	958.726	395.138
2060	137.948	144.987	972.858	430.483
2061	140.013	157.298	962.108	464.146
2062	142.043	169.396	951.545	497.224
2063	145.633	179.905	958.009	526.419
2064	149.405	189.972	966.636	555.047
2065	149.047	194.091	960.133	566.113
2066	143.932	191.171	936.42	556.439
2067	139.332	188.546	915.094	547.739
2068	136.03	187.023	896.367	542.348
2069	133.855	186.479	879.678	539.88
2070	131.868	185.982	864.438	537.626
2071	130.064	185.531	850.596	535.579
2072	128.543	185.21	838.148	534.059
2073	127.439	185.147	826.865	533.546
2074	126.372	185.086	815.962	533.05
2075	125.338	185.028	805.393	532.569
2076	124.339	184.971	795.178	532.104
2077	123.373	184.916	785.305	531.655
2078	122.443	184.828	776.756	531.087
2079	121.553	184.654	770.89	530.209
2080	120.687	184.486	765.186	529.355
2081	119.846	184.322	759.654	528.527
2082	119.032	184.164	754.287	527.724
2083	118.258	184.013	749.19	526.961
2084	117.52	183.87	744.331	526.233
2085	116.816	183.733	739.698	525.54
2086	116.191	183.598	739.016	524.97
2087	115.597	183.465	739.542	524.444
2088	114.998	183.331	740.072	523.915
2089	114.414	183.201	740.59	523.398
2090	113.832	183.071	741.106	522.883
2091	113.262	182.944	741.611	522.379
2092	112.704	182.819	742.106	521.886
2093	112.157	182.697	742.59	521.402
2094	111.622	1.83E+02	743.064	520.929
2095	111.183	1.83E+02	743.967	520.638
2096	111.089	182.629	746.968	521.111
2097	110.984	182.77	750.365	521.648
2098	110.867	182.927	754.155	522.246
2099	110.737	183.1	758.334	522.905
2100	110.595	183.288	762.9	523.626
2101	110.442	183.493	767.853	524.408
2102	110.312	183.708	772.538	525.229
2103	110.524	183.883	771.244	525.907
2104	160.796	-323.261	1075.56	-730.454
2105	152.946	-303.537	994.152	-687.476
2106	146.991	-283.812	944.025	-642.387
2107	141.512	-264.087	907.167	-596.227

010858

2108	136.102	-244.36	880.817	-550.45
2109	130.816	-224.631	877.851	-505.073
2110	126.137	-204.904	856.096	-458.566
2111	122.759	-185.176	819.914	-412.758
2112	121.445	-165.449	810.003	-366.168
2113	121.92	-145.721	840.196	-318.429
2114	121.975	-125.991	876.148	-271.367
2115	122.025	-106.261	860.919	-227.461
2116	122.072	-86.5306	847.704	-181.401
2117	122.115	-66.8003	830.292	-135.502
2118	116.175	-44.3595	766.746	-85.8929
2119	72.8862	-4.99218	480.992	-2.45862
2120	67.4832	-4.27E-02	417.742	6.82978
2121	67.4785	-3.24E-03	390.665	5.73559
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010861

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2302	137.193	9.46308	822.012	54.2089
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2304	137.246	32.4504	874.92	117.556
2305	137.268	45.2558	895.079	151.758
2306	137.29	58.053	914.122	186.051
2307	137.314	70.8418	922.694	221.361
2308	137.339	83.6219	931.302	256.426
2309	137.365	96.3929	930.123	292.279
2310	137.392	109.154	927.326	328.666
2311	137.421	121.905	940.505	364.966
2312	137.451	134.646	962.459	401.318
2313	138.349	147.377	970.772	437.017
2314	140.483	160.097	959.665	471.798
2315	142.868	172.527	951.686	505.437
2316	147.014	183.591	961.167	536.901
2317	151.122	194.553	970.561	568.075
2318	145.903	192.297	945.56	560.168
2319	140.248	189.069	919.341	549.472
2320	135.899	186.99	895.365	542.199
2321	133.005	186.266	873.159	538.916
2322	130.245	185.576	851.98	535.784
2323	127.932	185.175	831.899	533.775
2324	126.054	185.068	812.707	532.902
2325	124.24	184.966	794.17	532.058
2326	122.443	184.828	776.755	531.087
2327	120.648	184.478	764.935	529.318
2328	118.828	184.124	752.946	527.523
2329	116.98	183.765	740.779	525.702
2330	115.256	183.389	739.844	524.143
2331	113.528	183.003	741.375	522.615

010862

2332	111.765	182.61	742.938	521.055
2333	110.993	1.83E+02	750.072	521.601
2334	110.685	1.83E+02	760.007	523.169
2335	110.376	183.58	769.954	524.739
2336	110.553	183.907	771.063	526.001
2337	110.908	184.2	768.893	527.137
2338	111.257	184.488	766.76	528.253
2339	111.381	184.348	764.267	528.198
2340	111.395	184.005	761.651	527.577
2341	111.408	1.84E+02	759.099	526.971
2342	111.303	1.83E+02	756.057	525.798
2343	111.014	182.253	752.188	523.727
2344	110.727	1.81E+02	748.355	521.676
2345	46.2797	6.86E+01	399.339	204.593
2346	49.0348	-92.306	443.13	-201.902
2347	171.289	-334.019	1104.74	-749.139
2348	170.726	-335.711	1108.49	-754.136
2349	169.423	-335.592	1108.54	-755.187
2350	166.676	-332.497	1100.69	-749.588
2351	161.644	-324.77	1080.33	-733.632
2352	155.074	-308.884	1016.22	-699.127
2353	149.078	-291.476	959.756	-660.158
2354	144.168	-273.703	923.594	-618.604
2355	139.171	-255.613	892.691	-576.509
2356	134.187	-237.212	879.743	-534.01
2357	129.355	-218.511	871.414	-490.664
2358	124.868	-199.534	850.051	-445.9
2359	122.052	-180.304	809.595	-401.517
2360	121.579	-160.847	816.734	-354.994
2361	121.933	-141.186	848.459	-307.613
2362	121.987	-121.456	875.801	-261.082
2363	122.037	-101.726	856.477	-217.427
2364	122.083	-81.9959	845.38	-170.534
2365	122.125	-62.2657	823.864	-125.345
2366	106.226	-35.3111	701.066	-66.7159
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2386	137.174	1.49187	802.421	32.1148
2387	137.199	11.8418	827.858	60.8022

010863

2388	137.225	22.5829	854.257	90.5734
2389	137.251	35.3941	879.549	125.447
2390	137.273	48.1977	899.682	159.773
2391	137.295	60.993	916.06	194.338
2392	137.32	73.7799	924.673	229.422
2393	137.344	86.558	932.132	264.6
2394	137.371	99.3267	929.416	300.803
2395	137.398	112.086	926.702	336.978
2396	137.428	124.835	945.552	373.324
2397	137.457	137.573	967.502	409.668
2398	138.839	150.301	968.218	445.013
2399	140.973	163.019	957.113	479.787
2400	143.825	175.079	953.873	512.694
2401	147.962	186.12	963.335	544.093
2402	150.512	1.95E+02	966.928	568.885
2403	144.406	1.91E+02	938.618	557.336
2404	138.66	188.163	911.982	546.47
2405	134.866	186.731	887.436	541.027
2406	131.801	185.965	863.922	537.55
2407	128.83	185.226	841.083	534.192
2408	126.677	185.104	819.071	533.191
2409	124.554	184.983	797.378	532.204
2410	122.482	184.835	777.013	531.125
2411	120.468	184.443	763.746	529.14
2412	118.482	184.057	750.667	527.182
2413	116.532	183.674	738.713	525.272
2414	114.81	183.29	740.239	523.749
2415	113.115	182.911	741.742	522.249
2416	111.457	182.541	743.211	520.782
2417	110.971	182.787	750.786	521.714
2418	110.705	183.142	759.349	523.066
2419	110.444	183.49	767.768	524.394
2420	110.418	183.795	771.892	525.567
2421	110.718	184.044	770.052	526.53
2422	111.011	1.84E+02	768.259	527.468
2423	111.299	1.85E+02	766.5	528.389
2424	111.381	184.366	764.405	528.231
2425	111.392	184.079	762.214	527.71
2426	111.403	183.794	760.046	527.195
2427	111.415	1.84E+02	757.912	526.689
2428	111.209	1.83E+02	754.805	525.128
2429	110.966	182.11	751.557	523.389
2430	110.727	181.389	748.364	521.681
2431	110.492	180.68	745.225	520.001
2432	32.1563	-44.9792	420.964	-89.4583
2433	32.1563	-44.9792	420.964	-89.4583
2434	32.1563	-44.9792	420.964	-89.4583
2435	171.346	-333.848	1104.36	-748.635
2436	170.759	-335.611	1108.27	-753.84
2437	169.379	-335.581	1108.52	-755.203
2438	165.992	-331.446	1097.93	-747.419
2439	160.192	-321.742	1069.29	-727.144
2440	152.723	-302.975	991.833	-686.252
2441	147.035	-283.974	944.357	-642.762
2442	141.695	-264.753	908.304	-597.777
2443	136.361	-245.326	880.963	-552.672

010864

2444	131.105	-225.708	878.013	-507.548
2445	126.392	-205.981	857.309	-461.108
2446	122.915	-186.254	822.196	-415.244
2447	121.414	-166.526	808.427	-368.784
2448	121.917	-146.798	838.232	-320.999
2449	121.972	-127.068	874.184	-273.938
2450	122.022	-107.338	861.808	-230.076
2451	122.07	-87.6082	848.257	-183.983
2452	122.113	-67.878	831.819	-137.915
2453	118.54	-46.5098	782.354	-90.4502
2454	75.2504	-7.14218	496.598	-7.01529
2455	67.4835	-4.49E-02	419.221	6.88955
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2474	137.192	8.89777	820.623	52.642
2475	137.217	19.2478	844.509	81.3008
2476	137.244	31.7509	873.825	115.655
2477	137.266	44.5567	893.979	149.889
2478	137.289	57.3542	913.649	184.136
2479	137.313	70.1435	922.223	219.444
2480	137.337	82.9242	930.832	254.512
2481	137.364	95.6956	930.274	290.293
2482	137.391	1.08E+02	927.509	326.63
2483	137.419	1.21E+02	939.305	362.98
2484	137.449	133.951	961.26	399.333
2485	138.232	146.682	971.379	435.116
2486	140.366	159.402	960.271	469.899
2487	142.641	171.92	951.166	503.711
2488	146.789	182.989	960.652	535.19
2489	150.909	193.985	970.075	566.459
2490	146.084	192.4	946.397	560.509
2491	140.159	189.018	918.932	549.305
2492	135.62	186.92	893.221	541.882
2493	132.421	186.12	868.675	538.253
2494	129.28	185.335	844.577	534.689
2495	126.874	185.115	821.084	533.283
2496	124.587	184.985	797.719	532.22
2497	122.311	184.802	775.884	530.957
2498	120.056	184.363	761.036	528.734
2499	117.789	183.922	746.106	526.499

010865

2500	115.623	1.83E+02	739.519	524.467
2501	113.602	1.83E+02	741.31	522.68
2502	111.633	182.58	743.055	520.938
2503	110.955	182.808	751.29	521.793
2504	110.659	183.203	760.827	523.299
2505	110.384	183.57	769.715	524.702
2506	110.488	183.854	771.461	525.793
2507	110.769	184.086	769.74	526.693
2508	111.027	184.298	768.162	527.519
2509	111.262	184.492	766.725	528.271
2510	111.376	184.474	765.229	528.426
2511	111.385	184.252	763.532	528.023
2512	166.006	-331.467	1097.98	-747.462
2513	160.045	-321.372	1067.76	-726.339
2514	152.51	-302.44	989.625	-685.086
2515	146.907	-283.507	943.398	-641.679
2516	141.646	-264.573	907.998	-597.359
2517	136.445	-245.638	881.01	-553.39
2518	131.363	-226.671	878.157	-509.764
2519	126.757	-207.523	859.044	-464.744
2520	123.196	-188.188	826.293	-419.708
2521	121.352	-168.684	805.271	-374.023
2522	121.911	-149.028	833.788	-326.666
2523	121.966	-129.298	870.121	-279.257
2524	122.017	-109.568	864.158	-234.779
2525	122.064	-89.8381	849.4	-189.327
2526	122.109	-70.1078	834.98	-142.91
2527	122.149	-50.3775	807.015	-98.7177
2528	80.1424	-11.591	528.89	-16.444
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2544	0	0	0	0
2545	0	0	0	0
2546	0	0	0	0
2547	0	0	0	0
2548	137.189	7.72805	817.748	49.3999
2549	137.214	18.078	843.185	78.0872
2550	137.242	30.3032	871.544	111.799
2551	137.264	43.1096	891.681	146.132
2552	137.286	55.9083	911.844	180.236
2553	137.31	68.6986	921.25	215.48
2554	137.335	81.4802	929.859	250.55
2555	137.361	94.2527	930.495	286.417

010866

2556	137.388	107.016	927.822	322.524
2557	137.416	119.769	936.823	358.869
2558	137.446	132.511	958.78	395.226
2559	137.991	145.243	972.635	431.183
2560	140.125	157.965	961.526	465.97
2561	142.17	170.662	950.088	500.135
2562	146.322	181.743	959.584	531.646
2563	150.436	192.722	968.993	562.869
2564	146.97	192.906	950.508	562.186
2565	141.548	189.811	925.371	551.932
2566	136.798	187.215	902.262	543.219
2567	134.072	186.533	881.341	540.126
2568	131.485	185.886	861.497	537.191
2569	129.033	185.273	842.685	534.41
2570	127.247	185.136	824.905	533.456
2571	125.521	185.038	807.263	532.654
2572	123.855	184.944	790.234	531.879
2573	122.253	184.791	775.504	530.9
2574	120.718	184.492	765.394	529.386
2575	119.216	184.2	755.503	527.906
2576	117.735	183.911	745.748	526.446
2577	116.311	183.624	738.909	525.076
2578	115.007	183.333	740.065	523.922
2579	33.3606	13.5264	358.309	50.8854
2580	32.7542	9.63731	357.588	40.4549
2581	33.4066	13.8216	358.364	51.6773
2582	32.9277	10.7504	357.794	43.4402
2583	27.4489	7.70E+00	300.27	32.9147
2584	32.6836	9.18E+00	357.504	39.2408
2585	10.3243	2.89536	112.94	12.3801
2586	10.3243	2.89536	112.94	12.3801
2587	10.3243	2.89536	112.94	12.3801
2588	10.3243	2.89536	112.94	12.3801
2589	10.3243	2.89536	112.94	12.3801
2590	10.8302	3.03725	118.475	12.9868
2591	21.7806	6.10817	238.263	26.1176
2592	32.6827	9.1791	357.503	39.2259
2593	16.2839	4.56669	178.134	19.5265
2594	21.281	5.96807	232.798	25.5186
2595	26.278	7.36944	287.462	31.5106
2596	31.2751	8.77082	342.125	37.5027
2597	32.8376	10.1723	357.687	41.8897
2598	113.821	183.069	741.116	522.873
2599	146.162	-280.769	937.78	-635.331
2600	140.671	-261.044	901.969	-589.146
2601	135.287	-2.41E+02	880.36	-543.45
2602	130.082	-2.22E+02	874.877	-497.922
2603	125.418	-201.861	852.67	-451.388
2604	122.317	-182.133	813.469	-405.737
2605	121.534	-162.405	814.454	-358.779
2606	121.928	-142.677	845.388	-311.497
2607	121.983	-122.947	876.994	-264.646
2608	122.033	-103.217	857.938	-220.726
2609	122.079	-83.487	846.144	-174.107
2610	122.122	-63.7567	825.978	-128.685
2611	109.497	-38.2863	722.662	-73.0215

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2612	67.4878	-8.11E-02	444.026	7.89193
2613	67.4825	-3.66E-02	413.565	6.66099
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2627	0	0.00E+00	0	0
2628	0	0	0	0
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2630	0	0	0	0
2631	137.172	0.7097	800.498	29.9469
2632	137.197	11.0597	825.936	58.6342
2633	137.222	21.6145	851.877	87.8895
2634	137.249	34.4262	878.027	122.852
2635	137.271	47.2303	898.161	157.179
2636	137.294	60.0264	915.409	191.686
2637	137.318	72.8147	924.022	226.773
2638	137.343	85.631	932.329	261.972
2639	137.37	98.5099	929.59	298.487
2640	137.397	111.461	926.835	335.207
2641	137.427	124.496	944.968	372.357
2642	137.457	137.261	966.965	408.779
2643	138.765	149.861	968.602	443.811
2644	140.894	162.545	957.527	478.492
2645	143.692	174.724	953.569	511.685
2646	147.888	185.922	963.165	543.531
2647	150.521	194.933	966.968	568.901
2648	144.328	191.397	938.255	557.188
2649	138.516	188.08	911.312	546.196
2650	134.696	186.689	886.132	540.834
2651	131.514	185.893	861.719	537.224
2652	128.532	185.209	838.031	534.053
2653	126.288	185.082	815.102	533.01
2654	124.088	184.957	792.611	531.987
2655	121.972	184.736	773.651	530.622
2656	119.942	184.341	760.281	528.621
2657	117.973	183.958	747.313	526.68
2658	116.121	183.582	739.078	524.908
2659	6.67872	-3.11876	73.4925	-4.68991
2660	37.8476	-27.1182	402.728	-49.9586
2661	37.8476	-27.1182	402.728	-49.9586
2662	37.8476	-27.1182	402.728	-49.9586
2663	37.8476	-27.1182	402.728	-49.9586
2664	37.8476	-27.1182	402.728	-49.9586
2665	37.8476	-27.1182	402.728	-49.9586
2666	37.8476	-27.1182	402.728	-49.9586
2667	37.8476	-27.1182	402.728	-49.9586

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2668	37.8476	-27.1182	402.728	-49.9586
2669	39.075	-34.8339	404.979	-68.5275
2670	39.2525	-35.57	405.299	-70.2887
2671	38.5491	-31.8444	404.019	-61.3416
2672	37.9961	-28.1189	403.001	-52.3688
2673	40.3796	41.0043	366.971	125.015
2674	113.211	182.932	741.657	522.334
2675	111.698	182.595	742.997	520.996
2676	111.044	182.69	748.433	521.343
2677	110.818	182.991	755.704	522.49
2678	110.605	183.275	762.584	523.576
2679	110.402	183.546	769.122	524.608
2680	110.398	183.779	772.013	525.504
2681	110.63	183.971	770.592	526.248
2682	110.859	184.159	769.195	526.979
2683	111.083	184.344	767.821	527.697
2684	111.304	184.526	766.471	528.404
2685	111.378	184.429	764.885	528.345
2686	111.387	184.209	763.209	527.947
2687	111.395	183.993	761.562	527.555
2688	111.404	183.78	759.942	527.171
2689	111.412	183.571	758.35	526.793
2690	111.324	1.83E+02	756.337	525.947
2691	170.801	-3.35E+02	1107.99	-753.467
2692	169.363	-335.577	1108.52	-755.209
2693	165.572	-330.802	1096.23	-746.088
2694	159.201	-319.253	1059.02	-721.722
2695	145.316	-288.558	949.765	-654.017
2696	34.9866	26.1543	368.464	84.8173
2697	36.2892	30.9473	370.959	97.733
2698	37.667	35.7402	373.719	110.664
2699	39.2461	40.5332	376.745	123.629
2700	44.8433	55.7985	386.859	165.269
2701	47.9883	63.4212	392.987	186.148
2702	48.7111	65.0933	394.461	190.734
2703	49.4469	66.7654	395.986	195.321
2704	50.1827	68.4375	397.512	199.909
2705	47.2843	6.17E+01	391.615	181.474
2706	47.2843	6.17E+01	391.615	181.474
2707	47.2843	61.7149	391.615	181.474
2708	47.2843	61.7149	391.615	181.474
2709	47.2843	61.7149	391.615	181.474
2710	47.2843	61.7149	391.615	181.474
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2712	47.2843	61.7149	391.615	181.474
2713	47.2843	61.7149	391.615	181.474
2714	47.2843	61.7149	391.615	181.474
2715	47.2843	61.7149	391.615	181.474
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2717	47.2843	61.7149	391.615	181.474
2718	47.2843	61.7149	391.615	181.474
2719	46.6626	60.208	390.404	177.347
2720	45.1504	56.5428	387.457	167.307
2721	43.7042	52.8777	384.787	157.27
2722	148.117	-287.947	952.512	-651.975
2723	142.436	-267.434	912.884	-604.016

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2724	136.808	-246.993	881.213	-556.506
2725	131.379	-226.731	878.166	-509.903
2726	126.54	-206.609	858.015	-462.588
2727	122.967	-186.612	822.955	-416.071
2728	121.408	-166.729	808.13	-369.277
2729	121.917	-146.947	837.588	-321.697
2730	121.971	-127.215	873.917	-274.288
2731	122.022	-107.485	862.118	-230.17
2732	122.069	-87.7551	848.332	-184.335
2733	122.113	-68.0249	832.027	-138.245
2734	118.862	-46.8029	784.482	-91.0715
2735	75.5727	-7.43528	498.725	-7.63647
2736	67.4835	-4.52E-02	419.422	6.89769
2737	67.4788	-5.70E-03	392.346	5.8035
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2750	0	0	0	0
2751	0	0	0	0
2752	0	0	0	0
2753	0	0	0	0
2754	0	0.00E+00	0	0
2755	137.192	8.82E+00	820.433	52.4284
2756	137.217	19.1707	844.306	81.087
2757	137.244	31.6555	873.675	115.4
2758	137.266	44.4613	893.807	149.756
2759	137.288	57.259	913.585	183.875
2760	137.313	70.0483	922.159	219.183
2761	137.337	82.829	930.887	253.921
2762	137.364	95.6005	930.209	290.238
2763	137.391	108.362	927.494	326.421
2764	137.419	121.114	939.142	362.709
2765	137.449	133.856	961.097	399.063
2766	138.216	146.587	971.461	434.857
2767	140.35	159.308	960.354	469.64
2768	142.61	171.837	951.095	503.475
2769	146.758	182.907	960.581	534.956
2770	150.868	193.876	969.981	566.148
2771	146.267	192.505	947.248	560.856
2772	140.564	189.249	920.808	550.07
2773	136.04	187.025	896.447	542.359
2774	133.089	186.287	873.803	539.011
2775	130.254	185.578	852.055	535.795
2776	127.871	185.171	831.28	533.746
2777	125.912	185.06	811.253	532.835
2778	124.004	184.952	791.753	531.948
2779	122.153	184.771	774.842	530.801

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2780	120.361	184.422	763.041	529.034
2781	118.605	184.081	751.476	527.303
2782	116.884	183.746	740.141	525.606
2783	115.35	183.41	739.761	524.226
2784	113.878	183.081	741.065	522.924
2785	112.443	182.761	742.337	521.655
2786	111.173	182.518	744.265	520.685
2787	110.946	182.821	751.597	521.842
2788	110.723	183.118	758.79	522.977
2789	110.504	183.41	765.849	524.091
2790	110.297	183.696	772.633	525.18
2791	110.548	183.903	771.095	525.984
2792	110.795	184.107	769.583	526.775
2793	111.038	184.307	768.097	527.553
2794	111.277	184.504	766.636	528.317
2795	111.378	184.44	764.969	528.365
2796	111.387	184.205	763.179	527.939
2797	111.396	183.974	761.419	527.521
2798	111.405	183.747	759.687	527.11
2799	111.414	1.84E+02	757.969	526.702
2800	111.264	1.83E+02	755.54	525.521
2801	111.069	182.419	752.925	524.121
2802	110.877	181.842	750.369	522.753
2803	110.694	181.287	747.913	521.439
2804	110.517	180.756	745.56	520.18
2805	26.291	16.9702	377.889	64.4119
2806	27.5084	21.5284	378.788	76.6688
2807	28.8087	26.0866	379.777	88.9345
2808	29.6777	28.776	380.506	96.1842
2809	29.6777	28.776	380.506	96.1842
2810	31.7072	34.6586	382.284	112.059
2811	33.1272	38.4615	383.629	122.351
2812	171.429	-333.598	1103.8	-747.894
2813	170.851	-335.336	1107.66	-753.029
2814	169.447	-335.598	1108.55	-755.178
2815	165.771	-331.107	1097.03	-746.719
2816	159.407	-319.77	1061.15	-722.848
2817	151.549	-300.026	979.661	-679.825
2818	146.033	-280.296	936.808	-634.233
2819	140.54	-260.571	901.16	-588.045
2820	135.16	-240.843	880.289	-542.361
2821	129.97	-2.21E+02	874.344	-496.805
2822	125.306	-2.01E+02	852.137	-450.271
2823	122.248	-181.66	812.466	-404.645
2824	121.547	-161.932	815.147	-357.63
2825	121.93	-142.204	846.605	-310.04
2826	121.984	-122.474	876.798	-263.333
2827	122.034	-102.744	857.338	-219.899
2828	122.08	-83.0135	845.902	-172.973
2829	122.123	-63.2832	825.307	-127.624
2830	108.458	-37.3415	715.805	-71.0192
2831	67.4876	-7.95E-02	442.944	7.84822
2832	67.4824	-3.57E-02	412.915	6.63473
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2836	0	0	0	0
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2849	0	0	0	0
2850	137.173	0.958077	801.109	30.6353
2851	137.198	11.3081	826.546	59.3227
2852	137.223	21.922	852.633	88.7418
2853	137.25	34.7336	878.519	123.629
2854	137.272	47.5375	898.644	158.003
2855	137.294	60.3334	915.615	192.528
2856	137.319	73.1206	924.228	227.613
2857	137.343	85.8992	932.272	262.733
2858	137.37	98.6684	929.63	298.758
2859	137.397	111.428	926.842	335.113
2860	137.426	124.177	944.455	371.337
2861	137.456	136.916	966.37	407.795
2862	138.729	149.645	968.791	443.219
2863	140.863	162.363	957.686	477.995
2864	143.61	174.507	953.383	511.068
2865	147.749	185.552	962.848	542.479
2866	150.878	195.136	968.624	569.576
2867	144.864	191.703	940.741	558.202
2868	139.283	188.518	914.87	547.648
2869	135.373	186.858	891.329	541.603
2870	132.503	186.141	869.309	538.347
2871	129.766	1.85E+02	848.308	535.241
2872	127.592	1.85E+02	828.428	533.617
2873	125.726	185.05	809.357	532.749
2874	123.925	184.948	790.947	531.912
2875	122.194	184.779	775.111	530.841
2876	120.534	184.456	764.181	529.205
2877	118.924	184.143	753.579	527.618
2878	117.362	183.839	743.294	526.078
2879	115.927	183.539	739.25	524.736
2880	114.597	183.242	740.428	523.56
2881	113.291	182.95	741.585	522.405
2882	111.979	182.658	742.748	521.245
2883	111.109	182.603	746.333	521.011
2884	110.887	182.899	753.492	522.141
2885	110.662	183.199	760.746	523.286
2886	110.434	183.503	768.098	524.446
2887	110.399	183.78	772.005	525.508
2888	110.679	184.011	770.293	526.404
2889	110.961	184.244	768.566	527.308
2890	111.24	184.474	766.863	528.199
2891	111.378	184.437	764.943	528.358

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2892	111.389	184.159	762.829	527.856
2893	111.4	183.892	760.789	527.372
2894	111.41	183.641	758.878	526.918
2895	111.361	183.301	756.825	526.209
2896	111.166	182.713	754.227	524.818
2897	110.987	182.172	751.828	523.534
2898	110.822	181.674	749.627	522.357
2899	110.672	181.221	747.62	521.282
2900	110.528	180.786	745.695	520.252
2901	34.3294	41.539	384.814	130.696
2902	34.3294	41.539	384.814	130.696
2903	34.3294	41.539	384.814	130.696
2904	34.3294	41.539	384.814	130.696
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2923	34.3294	41.539	384.814	130.696
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2925	34.7583	42.637	385.237	133.673
2926	34.7556	42.6299	385.234	133.654
2927	34.3294	41.539	384.814	130.696
2928	34.3986	41.7159	384.882	131.176
2929	34.3448	41.5783	384.829	130.802
2930	34.3294	41.539	384.814	130.696
2931	34.3294	41.539	384.814	130.696
2932	34.3294	41.539	384.814	130.696
2933	34.3294	41.539	384.814	130.696
2934	34.3294	41.539	384.814	130.696
2935	34.3294	4.15E+01	384.814	130.696
2936	35.0403	4.34E+01	385.514	135.63
2937	36.2746	46.3977	386.731	143.908
2938	37.5736	49.4364	388.013	152.238
2939	38.8726	52.4752	389.295	160.568
2940	40.2085	5.55E+01	390.772	168.885
2941	41.5892	5.86E+01	392.486	177.187
2942	42.5571	60.6833	393.688	183.008
2943	42.5571	60.6833	393.688	183.008
2944	42.5571	60.6833	393.688	183.008
2945	42.5571	60.6833	393.688	183.008
2946	42.5571	60.6833	393.688	183.008
2947	42.5571	60.6833	393.688	183.008

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2948	42.5571	60.6833	393.688	183.008
2949	171.412	-333.65	1103.92	-748.049
2950	170.82	-335.427	1107.86	-753.298
2951	169.334	-335.569	1108.51	-755.22
2952	165.247	-330.303	1094.91	-745.057
2953	158.595	-317.729	1052.72	-718.4
2954	150.789	-297.761	972.654	-674.731
2955	145.25	-277.887	931.43	-628.093
2956	139.859	-258.103	896.944	-582.302
2957	134.498	-238.373	879.917	-536.68
2958	129.386	-218.645	871.564	-490.979
2959	124.753	-198.918	849.018	-444.462
2960	121.89	-179.19	807.235	-398.946
2961	121.619	-159.462	818.759	-351.633
2962	121.937	-139.733	851.106	-304.148
2963	121.99	-120.003	874.13	-258.126
2964	122.04	-100.273	855.055	-214.213
2965	122.086	-80.5433	844.635	-167.053
2966	122.128	-60.813	821.805	-122.091
2967	103.038	-32.4125	680.026	-60.5727
2968	67.4866	-7.13E-02	437.301	7.62019
2969	67.4818	-3.08E-02	409.525	6.49774
2970	0	0	0	0
2971	0	0	0	0
2972	0	0	0	0
2973	0	0	0	0
2974	0	0	0	0
2975	0	0	0	0
2976	0	0	0	0
2977	0	0	0	0
2978	0	0	0	0
2979	0	0	0	0
2980	0	0	0	0
2981	0	0	0	0
2982	0	0	0	0
2983	0	0	0	0
2984	0	0	0	0
2985	0	0	0	0
2986	0	0	0	0
2987	137.176	2.25391	799.86	34.1454
2988	137.201	12.6039	829.731	62.9144
2989	137.227	23.5262	856.576	93.1882
2990	137.252	36.3371	881.042	127.915
2991	137.274	49.1401	901.164	162.299
2992	137.297	61.9348	916.749	196.684
2993	137.322	74.7211	925.306	232.004
2994	137.346	87.4984	931.932	267.267
2995	137.373	100.266	929.216	303.467
2996	137.4	113.025	926.502	339.64
2997	137.43	125.773	947.169	376.001
2998	137.46	138.51	969.117	412.343
2999	138.996	151.238	967.4	447.575
3000	141.13	163.955	956.296	482.346
3001	144.131	175.895	954.573	515.016
3002	148.265	186.928	964.027	546.391
3003	150.1	194.692	965.018	568.105

010874

3004	144.362	191.417	938.414	557.252
3005	139.137	188.435	914.192	547.371
3006	135.494	186.888	892.253	541.739
3007	132.833	186.223	871.842	538.721
3008	130.413	185.618	853.273	535.975
3009	128.3	185.196	835.657	533.945
3010	126.582	185.098	818.105	533.147
3011	124.879	185.002	800.7	532.355
3012	123.235	184.909	783.899	531.591
3013	121.655	184.674	771.567	530.31
3014	120.127	184.377	761.499	528.803
3015	118.699	184.099	752.096	527.396
3016	117.314	183.829	742.977	526.031
3017	116.038	183.564	739.151	524.835
3018	114.864	183.301	740.192	523.796
3019	36.9677	30.0884	363.132	95.4922
3020	36.9677	30.0884	363.132	95.4922
3021	36.9677	30.0884	363.132	95.4922
3022	37.1518	30.718	363.332	97.1928
3023	37.4512	31.7418	363.658	99.958
3024	35.6782	25.1784	361.521	82.2392
3025	35.5303	24.5324	361.303	80.497
3026	35.3823	23.8864	361.084	78.7548
3027	35.2344	2.32E+01	360.865	77.0126
3028	35.0864	2.26E+01	360.646	75.2704
3029	113.875	183.081	741.068	522.922
3030	112.662	182.81	742.143	521.848
3031	111.485	182.547	743.186	520.807
3032	111.055	182.675	748.064	521.284
3033	110.868	182.925	754.114	522.239
3034	110.682	183.172	760.092	523.183
3035	110.499	183.417	766.006	524.116
3036	110.317	183.659	771.855	525.039
3037	110.474	183.842	771.547	525.748
3038	110.668	184.002	770.363	526.368
3039	110.841	184.145	769.3	526.924
3040	110.995	184.272	768.357	527.417
3041	111.129	184.382	767.539	527.845
3042	111.242	184.475	766.851	528.205
3043	111.333	184.551	766.291	528.498
3044	111.373	184.55	765.802	528.562
3045	111.376	184.486	765.316	528.447
3046	111.378	184.428	764.875	528.342
3047	111.381	184.357	764.332	528.213
3048	111.385	184.266	763.645	528.05
3049	111.389	184.155	762.799	527.849
3050	111.394	184.022	761.782	527.608
3051	111.4	183.869	760.62	527.332
3052	111.407	183.698	759.313	527.021
3053	111.415	183.509	757.875	526.68
3054	111.282	183.063	755.773	525.646
3055	111.115	182.558	753.537	524.449
3056	110.95	182.062	751.342	523.274
3057	110.791	181.582	749.218	522.137
3058	110.636	1.81E+02	747.147	521.03
3059	110.485	1.81E+02	745.121	519.945

010875

3060	30.5326	31.2541	381.255	102.871
3061	30.0412	29.8295	380.824	99.0272
3062	30.1734	30.2128	380.94	100.062
3063	30.2092	30.3165	380.971	100.341
3064	29.6777	28.776	380.506	96.1842
3065	26.5545	18.1849	378.063	67.6717
3066	2.85039	-1.80213	44.8609	-2.31085
3067	27.0489	-20.9239	415.57	-31.6345
3068	31.5349	-42.6447	420.294	-83.8633
3069	38.2989	-64.3611	428.226	-135.687
3070	45.1605	-82.7558	437.298	-179.349
3071	48.2148	-90.2934	441.887	-197.151
3072	49.3242	-93.0163	443.569	-203.579
3073	43.0749	-77.246	434.511	-166.277
3074	171.135	-334.483	1105.77	-750.508
3075	170.34	-335.827	1108.83	-754.841
3076	168.807	-335.434	1108.34	-755.419
3077	163.931	-328.281	1089.58	-740.883
3078	157.408	-314.747	1040.42	-711.903
3079	150.177	-295.512	968.039	-669.517
3080	144.697	-275.873	927.178	-623.406
3081	139.258	-255.929	893.23	-577.243
3082	133.912	-236.186	879.588	-531.648
3083	128.869	-216.457	869.101	-485.819
3084	124.427	-196.671	844.26	-439.28
3085	121.557	-176.899	802.384	-393.661
3086	121.686	-157.143	822.151	-346.003
3087	121.943	-137.387	855.05	-298.86
3088	121.996	-117.626	872.049	-252.607
3089	122.046	-97.8956	853.53	-208.636
3090	122.091	-78.1655	843.417	-161.355
3091	122.133	-58.4352	818.435	-116.765
3092	97.8211	-27.668	645.587	-50.5172
3093	67.4859	-6.55E-02	433.339	7.46006
3094	67.4812	-2.60E-02	406.262	6.36587
3095	0	0	0	0
3096	0	0	0	0
3097	0	0	0	0
3098	0	0	0	0
3099	0	0	0	0
3100	0	0.00E+00	0	0
3101	0	0.00E+00	0	0
3102	0	0	0	0
3103	0	0	0	0
3104	0	0	0	0
3105	0	0	0	0
3106	0	0	0	0
3107	0	0	0	0
3108	0	0	0	0
3109	0	0	0	0
3110	0	0	0	0
3111	0	0	0	0
3112	137.179	3.50124	803.137	37.6066
3113	137.204	13.8512	832.797	66.3716
3114	137.231	25.0704	860.371	97.4683
3115	137.255	37.8807	883.472	132.042

010876

3116	137.277	50.6825	903.589	166.434
3117	137.3	63.4762	917.732	201.151
3118	137.325	76.2614	926.344	236.23
3119	137.35	89.0377	931.717	271.336
3120	137.377	101.805	928.889	307.828
3121	137.404	114.562	927.85	344.013
3122	137.434	127.309	949.815	380.382
3123	137.463	140.045	971.761	416.721
3124	139.122	151.988	966.746	449.624
3125	141.081	163.664	956.55	481.552
3126	143.621	174.535	953.407	511.148
3127	147.266	1.84E+02	961.743	538.813
3128	150.793	1.94E+02	969.81	565.583
3129	147.371	193.134	952.363	562.943
3130	142.744	190.494	930.914	554.193
3131	138.516	188.08	911.311	546.196
3132	135.674	186.933	893.632	541.943
3133	133.586	186.411	877.615	539.575
3134	131.672	185.933	862.932	537.404
3135	129.926	185.496	849.536	535.423
3136	128.474	185.206	837.435	534.026
3137	127.405	185.145	826.518	533.53
3138	126.392	185.088	816.161	533.059
3139	125.414	185.032	806.163	532.604
3140	124.469	184.979	796.512	532.165
3141	123.558	184.927	787.197	531.741
3142	122.678	184.874	778.304	531.319
3143	121.84	184.71	772.781	530.492
3144	70.3662	100.192	491.672	288.476
3145	70.3662	100.192	491.672	288.476
3146	70.3662	100.192	491.672	288.476
3147	70.3662	100.192	491.672	288.476
3148	70.3662	100.192	491.672	288.476
3149	70.3662	100.192	491.672	288.476
3150	70.3662	100.192	491.672	288.476
3151	70.3662	100.192	491.672	288.476
3152	70.3662	100.192	491.672	288.476
3153	70.3662	100.192	491.672	288.476
3154	65.6455	91.358	465.923	263.791
3155	64.7803	89.6875	461.597	259.142
3156	63.9151	88.017	457.272	254.493
3157	63.0499	86.3465	452.946	249.844
3158	62.1848	84.676	448.621	245.195
3159	121.317	184.609	769.337	529.977
3160	120.361	184.423	763.043	529.034
3161	119.434	184.242	756.937	528.12
3162	118.535	184.067	751.014	527.234
3163	117.662	183.897	745.269	526.374
3164	116.816	183.733	739.696	525.54
3165	116.059	183.568	739.132	524.854
3166	115.338	183.407	739.771	524.216
3167	114.635	183.25	740.394	523.594
3168	113.95	183.097	741.002	522.988
3169	113.282	182.948	741.593	522.397
3170	112.631	182.803	742.17	521.821
3171	111.997	182.662	742.732	521.26

010877

3172	111.379	182.524	743.28	520.713
3173	111.129	182.577	745.71	520.913
3174	111.03	182.709	748.882	521.413
3175	110.934	182.837	751.994	521.905
3176	110.839	182.964	755.048	522.387
3177	110.746	183.088	758.044	522.859
3178	110.655	183.209	760.983	523.323
3179	110.565	183.328	763.868	523.779
3180	110.477	183.445	766.698	524.225
3181	110.391	183.56	769.474	524.664
3182	110.307	183.673	772.198	525.094
3183	110.374	183.76	772.158	525.428
3184	110.471	183.84	771.564	525.739
3185	110.567	183.919	770.979	526.045
3186	110.661	183.996	770.405	526.346
3187	110.753	184.072	769.84	526.641
3188	110.844	184.147	769.284	526.932
3189	110.933	184.221	768.738	527.218
3190	111.021	184.293	768.201	527.499
3191	111.106	184.363	767.681	527.771
3192	111.187	184.43	767.184	528.031
3193	111.265	184.494	766.71	528.279
3194	111.338	184.555	766.259	528.515
3195	111.373	184.545	765.767	528.554
3196	111.376	184.476	765.244	528.43
3197	111.379	184.412	764.75	528.313
3198	111.381	184.349	764.276	528.2
3199	111.384	184.288	763.812	528.09
3200	111.386	184.229	763.361	527.983
3201	111.388	184.173	762.935	527.882
3202	111.39	1.84E+02	762.524	527.784
3203	111.393	1.84E+02	762.119	527.688
3204	111.395	184.013	761.711	527.591
3205	111.397	183.959	761.302	527.494
3206	111.399	183.906	760.897	527.398
3207	111.401	183.853	760.497	527.303
3208	111.403	183.802	760.107	527.21
3209	111.405	183.752	759.727	527.12
3210	111.407	183.703	759.355	527.031
3211	111.409	183.655	758.99	526.945
3212	111.411	183.608	758.627	526.859
3213	111.413	183.561	758.271	526.774
3214	111.415	183.515	757.92	526.691
3215	111.416	183.47	757.575	526.609
3216	111.377	183.35	757.046	526.327
3217	111.338	183.232	756.522	526.046
3218	111.299	183.116	756.008	525.771
3219	111.262	183.002	755.502	525.501
3220	111.224	182.889	755.005	525.235
3221	111.188	182.779	754.517	524.973
3222	111.152	182.671	754.037	524.716
3223	111.117	182.564	753.565	524.464
3224	111.079	182.45	753.058	524.193
3225	111.026	1.82E+02	752.355	523.816
3226	110.958	1.82E+02	751.441	523.327
3227	110.874	181.831	750.319	522.727

010876

3228	110.774	181.531	748.991	522.016
3229	170.896	-335.2	1107.36	-752.628
3230	163.622	-325.116	1074.44	-732.06
3231	36.0269	41.9137	424.822	130.039
3232	36.0269	41.9137	424.822	130.039
3233	37.1965	45.0837	425.887	138.632
3234	37.73	46.4829	426.367	142.438
3235	40.7146	53.8053	428.988	162.503
3236	41.3235	55.2954	429.529	166.586
3237	42.0333	5.69E+01	430.337	171.021
3238	40.0779	5.22E+01	428.429	158.223
3239	38.0792	47.3397	426.674	144.786
3240	36.2147	42.4227	424.993	131.419
3241	34.4005	37.5056	423.341	118.09
3242	32.7884	32.5886	422.005	104.816
3243	31.2085	27.6716	420.719	91.5502
3244	28.8688	18.701	419.071	67.4178
3245	169.217	-335.539	1108.47	-755.264
3246	165.169	-330.183	1094.6	-744.81
3247	158.705	-318.006	1053.87	-719.004
3248	150.98	-298.46	974.09	-676.353
3249	145.519	-278.864	933.493	-630.368
3250	140.181	-259.27	898.938	-585.019
3251	134.847	-239.677	880.113	-539.679
3252	129.717	-220.046	873.141	-494.283
3253	125.068	-200.381	851.004	-447.898
3254	122.107	-180.685	810.402	-402.396
3255	121.576	-160.962	816.566	-355.275
3256	121.932	-141.233	848.374	-307.724
3257	121.986	-121.503	875.847	-261.185
3258	122.037	-101.773	856.523	-217.531
3259	122.082	-82.0426	845.404	-170.646
3260	122.125	-62.3123	823.931	-125.449
3261	106.328	-35.4042	701.742	-66.9132
3262	67.4872	-7.63E-02	440.726	7.7586
3263	67.4821	-3.38E-02	411.583	6.58089
3264	0	0	0	0
3265	0	0	0	0
3266	0	0	0	0
3267	0	0	0	0
3268	0	0	0	0
3269	0	0	0	0
3270	0	0	0	0
3271	0	0	0	0
3272	0	0	0	0
3273	0	0	0	0
3274	0	0	0	0
3275	0	0	0	0
3276	0	0	0	0
3277	0	0	0	0
3278	0	0	0	0
3279	0	0	0	0
3280	0	0	0	0
3281	137.174	1.4674	802.361	32.047
3282	137.199	11.8174	827.798	60.7344
3283	137.225	22.5526	854.183	90.4894

010879

1579

3284	137.251	35.3638	879.501	125.366
3285	137.273	48.1674	899.634	159.691
3286	137.295	60.9628	916.039	194.255
3287	137.32	73.7497	924.652	229.339
3288	137.344	86.5278	932.138	264.515
3289	137.371	99.2966	929.422	300.717
3290	137.398	112.056	926.708	336.893
3291	137.428	124.805	945.5	373.238
3292	137.457	137.543	967.45	409.582
3293	138.834	150.271	968.244	444.931
3294	140.968	162.989	957.14	479.705
3295	143.811	175.043	953.843	512.594
3296	147.934	186.046	963.271	543.883
3297	150.638	194.999	967.511	569.122
3298	144.699	191.609	939.976	557.89
3299	139.398	188.584	915.403	547.865
3300	135.63	186.922	893.297	541.894
3301	132.965	186.256	872.852	538.87
3302	130.447	185.627	853.535	536.014
3303	128.273	185.194	835.381	533.933
3304	126.599	185.099	818.277	533.155
3305	124.955	185.006	801.478	532.391
3306	123.378	184.917	785.356	531.657
3307	121.877	184.718	773.025	530.529
3308	120.433	184.437	763.517	529.105
3309	119.032	184.164	754.293	527.725
3310	117.674	183.9	745.347	526.385
3311	116.385	183.641	738.843	525.142
3312	115.231	183.383	739.867	524.121
3313	114.105	183.132	740.864	523.125
3314	113	182.885	741.844	522.147
3315	111.883	1.83E+02	742.833	521.16
3316	111.13	1.83E+02	745.655	520.904
3317	110.95	182.816	751.472	521.822
3318	110.771	183.054	757.233	522.732
3319	110.595	183.289	762.912	523.628
3320	110.422	183.519	768.483	524.507
3321	110.34	183.731	772.367	525.319
3322	110.539	183.895	771.152	525.954
3323	110.734	184.056	769.959	526.579
3324	110.926	184.214	768.785	527.193
3325	111.114	184.37	767.631	527.797
3326	111.3	1.85E+02	766.496	528.391
3327	111.376	1.84E+02	765.19	528.417
3328	111.384	184.285	763.788	528.084
3329	168.229	-334.88	1106.98	-754.511
3330	162.05	-325.394	1081.97	-734.921
3331	85.8505	-167.432	631.183	-379.761
3332	39.362	4.35E+01	421.233	132.468
3333	40.9065	4.78E+01	423.356	144.177
3334	43.3716	54.2833	426.572	161.954
3335	45.5483	59.5956	429.798	176.486
3336	50.8042	71.8005	437.994	209.918
3337	53.3238	77.3169	445.182	225.083
3338	56.0826	83.2476	454.466	241.411
3339	57.8596	86.9419	461.383	251.613

010880

1571

3340	55.0957	81.1485	450.977	235.626
3341	55.0957	81.1485	450.977	235.626
3342	55.0957	81.1485	450.977	235.626
3343	52.2847	75.0698	441.784	218.9
3344	45.5943	59.707	429.867	176.791
3345	39.6508	44.3441	421.65	134.764
3346	34.8	28.9812	414.625	93.2622
3347	31.5063	13.6182	410.219	52.0002
3348	3.32032	-1.64081	44.2267	-2.38622
3349	19.8295	-9.79915	264.129	-14.2509
3350	31.531	-15.5817	419.993	-22.6604
3351	33.9589	-16.8427	452.223	-24.5575
3352	16.5306	-8.16894	220.188	-11.8801
3353	1.80459	0.536459	23.9599	2.34581
3354	30.894	9.75329	409.103	41.6383
3355	31.187	11.6028	409.637	46.5969
3356	154.616	-307.733	1011.47	-696.62
3357	148.107	-287.911	952.438	-651.891
3358	142.624	-268.116	914.049	-605.603
3359	137.176	-248.367	881.42	-559.665
3360	131.89	-228.638	878.453	-514.288
3361	127.085	-208.91	860.605	-468.016
3362	123.34	-189.182	828.399	-422.001
3363	121.329	-169.455	804.144	-375.894
3364	121.901	-149.727	832.998	-327.998
3365	121.964	-129.997	868.847	-280.924
3366	122.015	-110.267	864.843	-236.325
3367	122.063	-90.5371	849.758	-191.002
3368	122.107	-70.8069	835.97	-144.476
3369	122.148	-51.0766	808.005	-100.283
3370	81.6761	-12.9857	539.014	-19.3999
3371	67.4842	-5.08E-02	423.24	7.05198
3372	67.4795	-1.13E-02	396.163	5.95778
3373	0	0	0	0
3374	0	0	0	0
3375	0	0	0	0
3376	0	0	0	0
3377	0	0	0	0
3378	0	0	0	0
3379	0	0	0	0
3380	0	0	0	0
3381	0	0	0	0
3382	0	0	0	0
3383	0	0	0	0
3384	0	0	0	0
3385	0	0	0	0
3386	0	0	0	0
3387	0	0	0	0
3388	0	0	0	0
3389	0	0	0	0
3390	137.188	7.36134	813.279	48.3178
3391	137.213	17.7113	842.284	77.0708
3392	137.241	29.8492	870.83	110.582
3393	137.263	42.656	890.968	144.916
3394	137.285	55.455	911.131	179.025
3395	137.309	68.2456	920.945	214.237

010881

3396	137.334	81.0275	929.554	249.308
3397	137.36	93.8003	930.591	285.134
3398	137.387	106.564	927.877	321.321
3399	137.415	119.317	936.044	357.581
3400	137.445	132.06	958.002	393.938
3401	137.915	144.792	973.028	429.95
3402	140.05	157.515	961.919	464.738
3403	142.177	170.219	950.791	499.473
3404	146.175	181.352	959.249	530.535
3405	150.291	192.335	968.661	561.767
3406	147.104	1.93E+02	951.128	562.439
3407	141.362	1.90E+02	924.508	551.579
3408	136.504	187.141	900.005	542.885
3409	133.582	186.41	877.583	539.57
3410	130.795	185.713	856.2	536.408
3411	128.321	185.197	835.88	533.956
3412	126.43	185.09	816.55	533.076
3413	124.604	184.986	797.891	532.228
3414	122.842	184.886	779.88	531.408
3415	121.161	184.578	768.31	529.823
3416	119.541	184.263	757.643	528.226
3417	117.976	183.958	747.337	526.683
3418	116.477	183.662	738.762	525.223
3419	115.153	183.366	739.935	524.052
3420	113.864	183.078	741.078	522.911
3421	112.619	182.8	742.181	521.811
3422	111.418	182.532	743.245	520.748
3423	111.042	182.692	748.493	521.352
3424	110.855	182.943	754.539	522.306
3425	155.613	-310.237	1021.8	-702.075
3426	148.699	-290.084	956.898	-656.93
3427	143.112	-2.70E+02	917.065	-609.711
3428	80.6265	-1.38E+02	564.007	-310.339
3429	37.8749	24.8467	389.433	80.9868
3430	37.8749	24.8467	389.433	80.9868
3431	37.8749	24.8467	389.433	80.9868
3432	37.8749	24.8467	389.433	80.9868
3433	37.8749	24.8467	389.433	80.9868
3434	43.2608	42.3019	401.736	128.363
3435	43.8588	43.9724	402.942	132.908
3436	44.4567	45.6429	404.149	137.453
3437	45.1055	47.3134	405.385	142.034
3438	45.7777	48.9839	406.636	146.631
3439	42.9322	41.3839	401.073	125.865
3440	42.9322	41.3839	401.073	125.865
3441	42.9322	41.3839	401.073	125.865
3442	42.9322	41.3839	401.073	125.865
3443	42.9322	41.3839	401.073	125.865
3444	42.9322	41.3839	401.073	125.865
3445	40.2603	33.3651	395.557	104.083
3446	37.6618	23.9422	388.65	78.5337
3447	35.7487	14.5192	382.903	53.1147
3448	19.2652	5.10E+00	210.532	21.503
3449	9.22573	-4.07E+00	99.873	-6.27512
3450	39.7525	-20.3434	426.91	-33.9595
3451	40.8722	-27.3513	431.068	-50.7904

010882

3452	42.725	-37.3367	437.387	-74.7196
3453	45.197	-47.0046	444.543	-97.7493
3454	47.9032	-56.355	451.767	-119.927
3455	50.5359	-64.3858	458.268	-138.88
3456	45.3164	-47.4716	444.889	-98.8619
3457	44.9145	-45.9	443.725	-95.1181
3458	44.5127	-44.3283	442.562	-91.3743
3459	44.1108	-42.7567	441.399	-87.6305
3460	43.709	-41.185	440.235	-83.8867
3461	45.663	-48.8273	445.892	-102.091
3462	45.663	-48.8273	445.892	-102.091
3463	45.663	-48.8273	445.892	-102.091
3464	45.663	-48.8273	445.892	-102.091
3465	45.663	-48.8273	445.892	-102.091
3466	45.663	-48.8273	445.892	-102.091
3467	45.663	-48.8273	445.892	-102.091
3468	45.663	-48.8273	445.892	-102.091
3469	45.663	-48.8273	445.892	-102.091
3470	44.0061	-42.347	441.096	-86.6544
3471	42.0365	-34.638	435.392	-68.2908
3472	40.8048	-26.9291	430.818	-49.7763
3473	39.573	-19.2201	426.244	-31.2618
3474	26.0913	-11.5109	282.451	-17.7467
3475	8.61696	-3.80161	93.2827	-5.86105
3476	137.107	-248.112	881.382	-559.08
3477	132.137	-229.563	878.592	-516.415
3478	127.384	-210.175	862.029	-471
3479	123.542	-190.573	831.343	-425.209
3480	121.291	-170.786	802.197	-379.126
3481	121.865	-150.989	831.153	-331.061
3482	121.96	-131.229	866.603	-283.862
3483	122.012	-111.497	866.047	-239.046
3484	122.06	-91.7666	850.388	-193.948
3485	122.105	-72.0364	837.713	-147.23
3486	122.145	-52.3061	809.748	-103.037
3487	84.3735	-15.4387	556.819	-24.5988
3488	67.4845	-5.32E-02	424.928	7.12016
3489	67.4798	-1.37E-02	397.851	6.02597
3490	0	0	0	0
3491	0	0	0	0
3492	0	0	0	0
3493	0	0	0	0
3494	0	0	0	0
3495	0	0	0	0
3496	0	0	0	0
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3498	0	0	0	0
3499	0	0	0	0
3500	0	0	0	0
3501	0	0	0	0
3502	0	0	0	0
3503	0	0	0	0
3504	0	0	0	0
3505	0	0	0	0
3506	0	0	0	0
3507	137.187	6.71636	815.261	46.5957

010883

3508	137.212	17.0663	840.699	75.2831
3509	137.24	29.0507	869.574	108.441
3510	137.262	4.19E+01	889.732	142.675
3511	137.284	5.47E+01	909.84	177.091
3512	137.308	67.4488	920.408	212.051
3513	137.332	80.2312	929.018	247.123
3514	137.358	93.0046	930.761	282.878
3515	137.385	105.768	928.046	319.067
3516	137.413	118.523	934.675	355.314
3517	137.443	131.266	956.634	391.674
3518	137.782	143.999	973.721	427.781
3519	139.917	156.722	962.611	462.571
3520	142.048	169.432	951.504	497.323
3521	145.918	180.664	958.66	528.579
3522	150.035	191.654	968.077	559.83
3523	147.476	193.195	952.853	563.143
3524	141.708	189.902	926.109	552.233
3525	136.694	187.189	901.464	543.101
3526	133.779	186.46	879.096	539.794
3527	131.012	185.768	857.864	536.654
3528	128.506	185.207	837.77	534.042
3529	126.651	185.102	818.806	533.179
3530	124.871	185.001	800.613	532.351
3531	123.163	184.905	783.166	531.558
3532	121.543	184.653	770.826	530.199
3533	119.998	184.352	760.651	528.676
3534	118.513	184.063	750.869	527.212
3535	117.084	183.785	741.461	525.804
3536	115.796	183.51	739.365	524.621
3537	114.581	183.238	740.443	523.546
3538	113.392	182.973	741.496	522.495
3539	112.234	182.714	742.522	521.47
3540	111.183	182.504	743.949	520.635
3541	110.999	182.75	749.876	521.57
3542	110.819	182.99	755.694	522.489
3543	110.642	183.226	761.401	523.389
3544	110.468	183.458	767.001	524.273
3545	110.297	1.84E+02	772.496	525.141
3546	110.486	183.852	771.476	525.785
3547	110.682	184.013	770.276	526.413
3548	110.874	184.172	769.097	527.03
3549	111.064	184.329	767.938	527.636
3550	111.25	184.482	766.798	528.233
3551	111.374	184.519	765.571	528.508
3552	111.382	184.334	764.156	528.172
3553	111.389	184.151	762.765	527.841
3554	111.396	183.972	761.399	527.517
3555	111.403	183.795	760.055	527.198
3556	111.41	183.622	758.734	526.884
3557	111.401	183.421	757.358	526.494
3558	111.25	182.968	755.353	525.421
3559	111.103	182.522	753.381	524.366
3560	110.958	182.085	751.443	523.329
3561	110.815	181.654	749.539	522.309
3562	110.675	181.231	747.666	521.307
3563	110.537	180.816	745.826	520.323

010884

3564	36.9255	47.9204	387.374	148.082
3565	36.9255	47.9204	387.374	148.082
3566	36.9255	47.9204	387.374	148.082
3567	171.28	-3.34E+02	1104.8	-749.221
3568	170.564	-3.36E+02	1108.9	-754.756
3569	168.856	-335.447	1108.36	-755.401
3570	163.58	-327.743	1088.17	-739.772
3571	156.434	-312.3	1030.32	-706.571
3572	149.321	-292.369	961.587	-662.228
3573	143.833	-272.493	921.526	-615.788
3574	138.358	-252.668	887.661	-569.656
3575	133.029	-232.89	879.093	-524.069
3576	128.088	-213.154	865.383	-478.028
3577	123.956	-193.427	837.389	-431.794
3578	121.206	-173.699	797.936	-386.199
3579	121.778	-153.972	826.79	-338.303
3580	121.952	-134.242	861.112	-291.05
3581	122.004	-114.512	869	-245.718
3582	122.053	-94.7822	851.934	-201.175
3583	122.098	-75.052	841.821	-153.894
3584	122.139	-55.3217	814.022	-109.792
3585	90.9897	-21.4555	600.493	-37.3507
3586	67.4852	-5.93E-02	429.066	7.2874
3587	67.4805	-1.98E-02	401.989	6.19321
3588	0	0	0	0
3589	0	0	0	0
3590	0	0	0	0
3591	0	0	0	0
3592	0	0	0	0
3593	0	0	0	0
3594	0	0	0	0
3595	0	0	0	0
3596	0	0	0	0
3597	0	0	0	0
3598	0	0	0	0
3599	0	0	0	0
3600	0	0	0	0
3601	0	0	0	0
3602	0	0	0	0
3603	0	0	0	0
3604	0	0	0	0
3605	137.183	5.13448	811.373	42.2112
3606	137.208	15.4845	836.811	70.8985
3607	137.236	27.0924	865.34	103.073
3608	137.258	39.9012	886.636	137.531
3609	137.28	52.7019	906.765	171.848
3610	137.304	65.4943	919.092	206.688
3611	137.328	78.2781	927.808	241.455
3612	137.354	91.053	931.176	277.345
3613	137.381	103.818	928.461	313.538
3614	137.409	116.574	931.318	349.754
3615	137.438	129.319	953.279	386.119
3616	137.468	142.053	975.291	422.147
3617	139.59	154.778	964.309	457.255
3618	141.724	167.492	953.208	492.018
3619	145.285	178.976	957.213	523.777

010885

3620	149.408	189.981	966.643	555.072
3621	148.397	193.72	957.121	564.884
3622	142.562	190.389	930.069	553.848
3623	137.152	187.303	904.972	543.62
3624	134.199	186.565	882.318	540.27
3625	131.388	185.862	860.75	537.081
3626	128.754	185.221	840.297	534.156
3627	126.871	185.115	821.057	533.281
3628	125.065	185.012	802.596	532.442
3629	123.332	184.914	784.892	531.636
3630	121.686	184.68	771.766	530.34
3631	120.11	184.374	761.387	528.787
3632	118.593	184.078	751.399	527.291
3633	117.134	183.794	741.791	525.853
3634	115.822	183.515	739.342	524.644
3635	114.599	183.242	740.426	523.562
3636	113.408	182.977	741.482	522.509
3637	112.248	182.717	742.51	521.482
3638	111.185	182.502	743.882	520.624
3639	111.002	182.747	749.802	521.559
3640	110.822	1.83E+02	755.603	522.474
3641	110.645	1.83E+02	761.295	523.373
3642	110.471	183.454	766.895	524.256
3643	110.301	183.681	772.389	525.124
3644	110.482	183.848	771.5	525.772
3645	110.678	184.01	770.3	526.4
3646	110.871	184.169	769.121	527.017
3647	111.06	184.325	767.961	527.624
3648	111.246	184.479	766.821	528.221
3649	111.374	184.523	765.6	528.514
3650	111.382	184.337	764.185	528.178
3651	111.389	184.155	762.793	527.848
3652	111.396	183.975	761.426	527.523
3653	111.403	1.84E+02	760.082	527.204
3654	111.41	1.84E+02	758.76	526.89
3655	111.404	1.83E+02	757.399	526.516
3656	111.253	182.977	755.393	525.442
3657	111.107	182.534	753.434	524.394
3658	110.971	182.125	751.621	523.423
3659	110.848	181.752	749.97	522.54
3660	110.736	181.415	748.479	521.742
3661	171.223	-334.216	1105.17	-749.72
3662	170.285	-335.813	1108.81	-754.862
3663	168.184	-334.812	1106.8	-754.371
3664	161.638	-324.76	1080.3	-733.611
3665	153.335	-304.513	998.178	-689.602
3666	146.88	-283.406	943.191	-641.445
3667	141.257	-263.164	905.59	-594.08
3668	19.3994	-8.56164	209.997	-13.1973
3669	38.5407	27.6723	391.878	88.6499
3670	37.2858	22.3462	387.269	74.2055
3671	36.1436	17.0202	383.543	59.8112
3672	35.4583	12.6793	382.432	48.1885
3673	35.4583	12.6793	382.432	48.1885
3674	39.4915	30.8231	393.917	97.1919
3675	39.9967	32.4937	394.995	101.721

010886

3676	40.5019	34.1642	396.072	106.249
3677	41.0071	35.8347	397.15	110.778
3678	40.8316	35.2544	396.776	109.205
3679	39.0057	29.2166	392.881	92.8367
3680	39.0057	29.2166	392.881	92.8367
3681	39.0057	29.2166	392.881	92.8367
3682	39.0057	29.2166	392.881	92.8367
3683	39.0057	29.2166	392.881	92.8367
3684	39.0057	29.2166	392.881	92.8367
3685	121.352	-219.44	792.257	-495.504
3686	133.625	-235.115	879.427	-529.187
3687	128.558	-215.144	867.623	-482.72
3688	124.218	-195.229	841.206	-435.952
3689	121.335	-175.366	799.135	-390.122
3690	121.733	-155.548	824.484	-342.13
3691	121.948	-135.77	858.328	-294.693
3692	122	-116.026	870.261	-249.318
3693	122.05	-96.2962	852.59	-205.007
3694	122.095	-76.5661	842.597	-157.522
3695	122.136	-56.8358	816.168	-113.183
3696	94.3118	-24.4766	622.422	-43.7535
3697	67.4855	-6.23E-02	431.144	7.37137
3698	67.4808	-2.28E-02	404.067	6.27717
3699	0	0	0	0
3700	0	0	0	0
3701	0	0	0	0
3702	0	0	0	0
3703	0	0	0	0
3704	0	0	0	0
3705	0	0	0	0
3706	0	0	0	0
3707	0	0	0	0
3708	0	0	0	0
3709	0	0	0	0
3710	0	0	0	0
3711	0	0	0	0
3712	0	0	0	0
3713	0	0	0	0
3714	0	0	0	0
3715	0	0	0	0
3716	137.181	4.34024	809.421	40.0098
3717	137.206	14.6902	834.859	68.6971
3718	137.233	26.1091	862.924	100.347
3719	137.257	38.9187	885.105	134.817
3720	137.279	5.17E+01	905.22	169.215
3721	137.302	64.513	918.431	203.995
3722	137.327	77.2974	927.144	238.768
3723	137.352	90.0729	931.384	274.566
3724	137.379	102.839	928.669	310.761
3725	137.406	115.595	929.632	346.963
3726	137.436	128.341	951.595	383.329
3727	137.466	141.077	973.606	419.371
3728	139.427	153.802	965.161	454.586
3729	141.56	1.67E+02	954.059	489.352
3730	144.967	1.78E+02	956.485	521.364
3731	149.093	189.14	965.923	552.681

010887

3732	148.863	193.986	959.282	565.765
3733	142.994	190.636	932.073	554.666
3734	137.549	187.528	906.83	544.368
3735	134.421	186.62	884.018	540.522
3736	131.595	185.913	862.337	537.316
3737	128.899	185.239	841.659	534.258
3738	126.975	185.121	822.122	533.33
3739	125.13	185.016	803.269	532.472
3740	123.35	184.915	785.072	531.645
3741	121.646	184.673	771.503	530.301
3742	120.002	184.353	760.681	528.681
3743	118.408	184.042	750.183	527.109
3744	116.862	183.742	740.001	525.585
3745	115.489	1.83E+02	739.638	524.349
3746	114.17	1.83E+02	740.806	523.183
3747	112.885	182.86	741.945	522.046
3748	111.633	182.58	743.055	520.938
3749	111.068	182.658	747.662	521.221
3750	110.869	182.924	754.084	522.235
3751	110.673	183.184	760.386	523.229
3752	110.481	183.44	766.568	524.205
3753	110.293	183.691	772.635	525.162
3754	110.512	183.873	771.317	525.868
3755	158.771	-318.173	1054.56	-719.367
3756	150.977	-298.449	974.067	-676.327
3757	145.485	-278.741	933.233	-630.081
3758	140.465	-260.296	900.691	-587.407
3759	9.63422	2.5487	105.284	10.7533
3760	2.8645	-1.26376	31.0096	-1.94837
3761	11.1648	-4.92567	120.865	-7.59405
3762	19.4652	-8.58759	210.72	-13.2397
3763	27.7655	-12.2495	300.575	-18.8854
3764	0.364238	-0.160693	3.94305	-0.247746
3765	5.102	-2.25089	55.2316	-3.47026
3766	9.83976	-4.34108	106.52	-6.69277
3767	8.73809	-3.85505	94.594	-5.94344
3768	5.17552	-2.28332	56.0275	-3.52027
3769	19.8598	-8.76169	214.992	-13.5081
3770	19.8598	-8.76169	214.992	-13.5081
3771	19.8598	-8.76169	214.992	-13.5081
3772	19.8598	-8.76169	214.992	-13.5081
3773	19.8598	-8.76169	214.992	-13.5081
3774	15.6254	-6.8936	169.153	-10.6281
3775	9.94628	-4.38807	107.673	-6.76522
3776	4.2671	-1.88255	46.1935	-2.90238
3777	2.50269	0.662078	27.3496	2.79339
3778	12.5682	3.32488	137.347	14.0281
3779	22.6337	5.98768	247.343	25.2628
3780	0.107756	2.85E-02	1.17757	0.120273
3781	3.85914	1.02092	42.1731	4.30741
3782	7.61053	2.01334	83.1685	8.49455
3783	11.3619	3.00576	124.164	12.6817
3784	6.59688	1.74518	72.0913	7.36317
3785	89.2205	133.471	593.989	382.357
3786	119.769	184.307	759.142	528.45
3787	118.066	183.976	747.926	526.772

010888

3788	116.437	183.653	738.797	525.188
3789	145.891	-280.22	936.355	-633.523
3790	53.0221	-76.9157	432.557	-168.392
3791	3.98304	1.08756	42.7067	4.62889
3792	3.98304	1.08756	42.7067	4.62889
3793	3.98304	1.08756	42.7067	4.62889
3794	3.98304	1.08756	42.7067	4.62889
3795	34.9005	16.883	361.794	59.7586
3796	35.1745	18.5533	361.968	64.2415
3797	35.5619	20.2236	362.731	68.7628
3798	35.9494	21.894	363.493	73.2841
3799	36.3369	23.5643	364.255	77.8053
3800	34.8681	16.6766	361.78	59.2052
3801	34.8681	1.67E+01	361.78	59.2052
3802	34.8681	1.67E+01	361.78	59.2052
3803	34.8681	16.6766	361.78	59.2052
3804	34.8681	16.6766	361.78	59.2052
3805	36.2396	23.1448	364.064	76.6697
3806	39.1013	33.7444	367.725	105.35
3807	42.6591	44.344	371.091	134.095
3808	46.7666	54.9436	375.036	163.084
3809	51.3587	65.5431	385.461	192.187
3810	56.2982	76.1427	403.397	221.388
3811	57.2223	78.0507	408.25	226.658
3812	61.6332	86.9799	432.281	251.366
3813	66.2107	95.9092	458.295	276.17
3814	69.3546	101.903	476.226	292.868
3815	68.4702	100.233	471.2	288.209
3816	117.275	183.822	742.719	525.992
3817	116.549	183.678	738.698	525.286
3818	115.902	183.533	739.271	524.715
3819	115.262	183.39	739.839	524.148
3820	79.531	123.973	542.734	354.336
3821	56.7263	79.9914	410.278	231.846
3822	51.9651	69.7542	387.823	203.661
3823	54.2342	74.7249	396.146	217.328
3824	50.3472	66.1573	383.266	193.783
3825	46.6789	57.5897	374.938	170.283
3826	43.2793	49.0221	370.129	146.828
3827	40.1962	40.4544	366.698	123.526
3828	36.9677	30.0884	363.132	95.4922
3829	36.9677	30.0884	363.132	95.4922
3830	36.9677	30.0884	363.132	95.4922
3831	36.9677	30.0884	363.132	95.4922
3832	145.7	-279.525	934.888	-631.906
3833	140.813	-261.556	902.843	-590.337
3834	135.283	-241.302	880.357	-543.415
3835	129.974	-221.133	874.365	-496.847
3836	125.256	-201.177	851.9	-449.776
3837	122.191	-181.264	811.628	-403.732
3838	121.563	-1.61E+02	815.941	-356.311
3839	121.932	-1.42E+02	847.452	-308.797
3840	121.986	-121.733	876.072	-261.695
3841	122.036	-101.945	856.691	-217.911
3842	122.082	-82.1775	845.473	-170.969
3843	122.124	-62.4275	824.094	-125.707

010889

3844	106.566	-35.6207	703.313	-67.372
3845	67.4872	-7.66E-02	440.974	7.76861
3846	67.4822	-3.40E-02	411.732	6.5869
3847	0	0	0	0
3848	0	0	0	0
3849	0	0	0	0
3850	0	0	0	0
3851	0	0	0	0
3852	0	0	0	0
3853	0	0	0	0
3854	0	0	0	0
3855	0	0	0	0
3856	0	0	0	0
3857	0	0	0	0
3858	0	0	0	0
3859	0	0	0	0
3860	0	0	0	0
3861	0	0	0	0
3862	0	0	0	0
3863	0	0	0	0
3864	137.174	1.41048	802.221	31.8893
3865	137.199	11.7605	827.658	60.5766
3866	137.225	22.4821	854.01	90.2941
3867	137.251	35.2934	879.4	125.125
3868	137.273	48.097	899.55	159.354
3869	137.295	60.8925	915.992	194.062
3870	137.32	73.6794	924.605	229.146
3871	137.344	86.4575	932.153	264.316
3872	137.371	99.2264	929.437	300.518
3873	137.398	111.985	926.723	336.694
3874	137.428	124.734	945.416	372.92
3875	137.457	137.473	967.329	409.383
3876	138.822	1.50E+02	968.305	444.74
3877	140.956	1.63E+02	957.201	479.514
3878	143.792	174.991	953.798	512.446
3879	147.931	186.037	963.264	543.857
3880	150.581	194.967	967.244	569.014
3881	144.54	1.92E+02	939.24	557.59
3882	138.909	1.88E+02	913.136	546.941
3883	135.109	186.792	889.298	541.302
3884	132.173	186.058	866.778	537.972
3885	129.356	185.354	845.164	534.776
3886	127.216	185.134	824.582	533.442
3887	125.264	185.024	804.63	532.534
3888	123.364	184.916	785.22	531.651
3889	121.532	184.65	770.752	530.188
3890	119.748	184.303	759.007	528.43
3891	118.007	183.964	747.542	526.714
3892	116.351	183.634	738.873	525.112
3893	114.871	183.303	740.185	523.803
3894	113.429	182.981	741.463	522.527
3895	112.023	182.667	742.709	521.284
3896	111.108	182.605	746.368	521.017
3897	110.885	182.902	753.566	522.153
3898	110.666	183.194	760.629	523.268
3899	110.451	183.481	767.559	524.361

010890

3900	110.355	183.744	772.275	525.367
3901	110.602	183.948	770.764	526.157
3902	110.845	184.148	769.279	526.934
3903	111.083	184.345	767.82	527.698
3904	111.318	184.538	766.384	528.449
3905	111.379	184.401	764.666	528.293
3906	111.389	184.167	762.885	527.87
3907	111.398	183.937	761.134	527.454
3908	111.407	183.711	759.413	527.045
3909	169.481	-335.607	1108.56	-755.165
3910	166.081	-331.582	1098.28	-747.7
3911	160.016	-321.301	1067.47	-726.183
3912	152.321	-301.965	987.666	-684.052
3913	146.647	-282.552	941.438	-639.464
3914	141.229	-263.065	905.421	-593.849
3915	135.874	-243.509	880.689	-548.492
3916	130.626	-223.888	877.466	-503.347
3917	125.973	-204.211	855.315	-456.931
3918	122.659	-184.489	818.457	-411.171
3919	121.465	-164.761	811.009	-364.498
3920	121.922	-145.033	841.449	-316.788
3921	121.977	-125.303	877.402	-269.727
3922	122.027	-105.573	860.245	-225.939
3923	122.074	-85.8427	847.352	-179.752
3924	122.117	-66.1124	829.317	-133.961
3925	114.666	-42.9868	756.782	-82.9837
3926	71.377	-3.61972	471.029	0.450143
3927	67.483	-4.14E-02	416.798	6.79163
3928	67.4783	-1.87E-03	389.721	5.69744
3929	0	0	0	0
3930	0	0	0	0
3931	0	0	0	0
3932	0	0	0	0
3933	0	0	0	0
3934	0	0	0	0
3935	0	0	0	0
3936	0	0	0	0
3937	0	0	0	0
3938	0	0	0	0
3939	0	0	0	0
3940	0	0	0	0
3941	0	0	0	0
3942	0	0	0	0
3943	0	0	0	0
3944	0	0	0	0
3945	0	0	0	0
3946	137.194	9.82394	822.899	55.2091
3947	137.219	20.1739	848.337	83.8965
3948	137.246	32.897	875.622	118.753
3949	137.268	45.7021	895.758	153.082
3950	137.291	58.499	914.424	187.272
3951	137.315	71.2876	923.077	222.305
3952	137.339	84.0674	931.602	257.648
3953	137.366	96.838	930.027	293.546
3954	137.393	109.599	927.231	329.927
3955	137.422	122.35	941.27	366.234

010891

3956	137.452	135.09	963.28	402.355
3957	138.402	147.82	970.336	437.873
3958	140.557	160.54	959.278	473.01
3959	143.014	172.914	952.018	506.539
3960	147.158	183.975	961.496	537.992
3961	151.264	194.933	970.887	569.156
3962	145.699	192.18	944.611	559.781
3963	140.058	188.961	918.464	549.114
3964	135.796	186.964	894.574	542.082
3965	132.907	186.241	872.403	538.804
3966	130.151	185.552	851.259	535.678
3967	127.865	185.171	831.219	533.744
3968	126.009	185.066	812.245	532.881
3969	124.287	184.968	794.653	532.08
3970	122.702	1.85E+02	778.458	531.342
3971	121.267	1.85E+02	769.011	529.928
3972	119.954	184.343	760.364	528.633
3973	118.761	184.111	752.506	527.457
3974	117.685	183.902	745.422	526.397
3975	116.725	183.715	739.099	525.45
3976	115.954	183.545	739.226	524.76
3977	115.286	183.396	739.817	524.17
3978	114.672	183.259	740.362	523.626
3979	114.073	183.125	740.892	523.097
3980	113.489	182.995	741.41	522.58
3981	112.921	1.83E+02	741.914	522.077
3982	112.366	1.83E+02	742.405	521.587
3983	111.826	182.623	742.884	521.109
3984	111.3	182.506	743.35	520.644
3985	111.13	182.575	745.655	520.904
3986	111.046	182.687	748.359	521.331
3987	110.965	182.795	750.98	521.745
3988	110.866	182.927	754.168	522.248
3989	110.741	183.094	758.203	522.885
3990	110.59	183.296	763.078	523.654
3991	110.412	183.532	768.797	524.557
3992	110.395	183.776	772.033	525.493
3993	110.671	184.005	770.34	526.38
3994	110.98	184.26	768.449	527.369
3995	111.32	184.54	766.371	528.456
3996	111.384	1.84E+02	763.787	528.084
3997	111.398	1.84E+02	761.153	527.458
3998	111.411	183.599	758.559	526.842
3999	111.233	182.914	755.115	525.294
4000	110.938	182.024	751.175	523.185
4001	110.648	181.149	747.302	521.112
4002	49.3242	-93.0163	443.569	-203.579
4003	49.3242	-93.0163	443.569	-203.579
4004	45.8227	-84.4224	438.262	-183.291
4005	37.6763	-62.5008	427.472	-131.258
4006	30.9851	-40.5791	419.701	-78.9128
4007	26.6822	-18.6574	415.196	-26.171
4008	9.47336	3.47039	144.906	16.5723
4009	29.0027	26.7669	379.924	90.7649
4010	36.9255	47.9204	387.374	148.082
4011	36.9255	47.9204	387.374	148.082

010892

4012	40.0616	55.1907	390.589	168.002
4013	40.562	56.292	391.211	171.011
4014	41.0624	57.3934	391.832	174.02
4015	39.9109	54.8591	390.402	167.096
4016	39.9109	54.8591	390.402	167.096
4017	39.9109	54.8591	390.402	167.096
4018	39.9109	54.8591	390.402	167.096
4019	39.9109	54.8591	390.402	167.096
4020	39.9109	54.8591	390.402	167.096
4021	39.9109	54.8591	390.402	167.096
4022	39.9109	54.8591	390.402	167.096
4023	39.9109	54.8591	390.402	167.096
4024	171.244	-334.154	1105.04	-749.538
4025	170.444	-335.853	1108.86	-754.802
4026	168.732	-335.415	1108.32	-755.447
4027	163.144	-327.073	1086.4	-738.387
4028	155.875	-310.895	1024.52	-703.508
4029	148.954	-291.022	958.823	-659.104
4030	143.481	-271.218	919.35	-612.822
4031	138.026	-251.467	885.608	-566.861
4032	132.72	-231.738	878.919	-521.42
4033	127.818	-212.01	864.096	-475.329
4034	123.79	-192.283	834.966	-429.155
4035	121.239	-172.555	799.609	-383.422
4036	121.811	-152.828	828.463	-335.525
4037	121.955	-133.098	863.197	-288.321
4038	122.007	-113.368	867.88	-243.187
4039	122.056	-93.6381	851.347	-198.433
4040	122.101	-73.9079	840.366	-151.421
4041	122.141	-54.1776	812.401	-107.229
4042	88.4794	-19.1726	583.923	-32.5124
4043	67.4849	-5.70E-02	427.496	7.22395
4044	67.4802	-1.75E-02	400.419	6.12976
4045	0	0	0	0
4046	0	0	0	0
4047	0	0	0	0
4048	0	0	0	0
4049	0	0	0	0
4050	0	0	0	0
4051	0	0	0	0
4052	0	0	0	0
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4055	0	0	0	0
4056	0	0	0	0
4057	0	0	0	0
4058	0	0	0	0
4059	0	0	0	0
4060	0	0	0	0
4061	0	0	0	0
4062	137.184	5.73465	812.848	43.8747
4063	137.209	16.0846	838.286	72.5621
4064	137.237	27.8354	867.166	105.132
4065	137.26	40.6437	887.804	139.521
4066	137.282	53.4439	907.931	173.837
4067	137.305	66.2358	919.591	208.723

010893

4068	137.33	79.0192	928.202	243.797
4069	137.356	91.7934	931.018	279.444
4070	137.383	104.558	928.354	315.528
4071	137.41	117.313	932.614	351.827
4072	137.44	130.058	954.552	388.226
4073	137.579	142.792	974.775	424.48
4074	139.714	155.516	963.665	459.272
4075	141.847	168.229	952.564	494.033
4076	145.525	179.617	957.762	525.6
4077	149.646	190.616	967.187	556.878
4078	148.046	1.94E+02	955.495	564.221
4079	142.236	1.90E+02	928.561	553.233
4080	136.973	187.258	903.605	543.418
4081	134.003	186.516	880.815	540.048
4082	131.141	185.8	858.861	536.802
4083	128.504	185.207	837.746	534.04
4084	126.52	185.095	817.475	533.118
4085	124.582	184.985	797.665	532.217
4086	122.687	184.875	778.361	531.327
4087	11.1013	-4.89762	120.176	-7.5508
4088	16.7804	-7.40315	181.656	-11.4136
4089	22.4596	-9.90867	243.136	-15.2765
4090	28.1388	-12.4142	304.616	-19.1393
4091	15.189	4.01821	165.987	16.9534
4092	21.5032	5.68859	234.988	24.0009
4093	27.8173	7.35898	303.99	31.0485
4094	34.1314	9.02936	372.991	38.0961
4095	35.1457	10.6999	381.926	42.8883
4096	10.7907	2.85465	117.922	12.0441
4097	10.7907	2.85465	117.922	12.0441
4098	10.7907	2.85E+00	117.922	12.0441
4099	10.7907	2.85E+00	117.922	12.0441
4100	10.7907	2.85465	117.922	12.0441
4101	10.7907	2.85465	117.922	12.0441
4102	10.7907	2.85465	117.922	12.0441
4103	10.7907	2.85465	117.922	12.0441
4104	10.7907	2.85465	117.922	12.0441
4105	10.7907	2.85465	117.922	12.0441
4106	10.7907	2.85465	117.922	12.0441
4107	10.7907	2.85465	117.922	12.0441
4108	10.7907	2.85465	117.922	12.0441
4109	10.7907	2.85465	117.922	12.0441
4110	10.7907	2.85465	117.922	12.0441
4111	10.7907	2.85465	117.922	12.0441
4112	3.52757	0.933206	38.5496	3.93732
4113	32.8913	8.70129	359.439	36.7119
4114	32.8913	8.70129	359.439	36.7119
4115	32.8913	8.70129	359.439	36.7119
4116	32.8913	8.70129	359.439	36.7119
4117	35.0399	10.0298	381.754	41.0941
4118	10.7907	2.85465	117.922	12.0441
4119	10.7907	2.85465	117.922	12.0441
4120	10.7907	2.85465	117.922	12.0441
4121	10.7907	2.85465	117.922	12.0441
4122	10.7907	2.85465	117.922	12.0441
4123	10.7907	2.85465	117.922	12.0441

010894

4124	10.7907	2.85465	117.922	12.0441
4125	10.7907	2.85465	117.922	12.0441
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4130	10.7907	2.85465	117.922	12.0441
4131	10.7907	2.85465	117.922	12.0441
4132	10.7907	2.85E+00	117.922	12.0441
4133	10.7907	2.85E+00	117.922	12.0441
4134	14.1812	-6.25644	153.519	-9.64574
4135	17.7438	-7.82817	192.085	-12.0689
4136	21.3064	-9.39989	230.652	-14.4921
4137	24.8689	-10.9716	269.218	-16.9152
4138	27.3395	-12.0616	295.964	-18.5957
4139	120.523	184.454	764.111	529.194
4140	118.662	184.092	751.854	527.359
4141	116.857	183.74	739.964	525.58
4142	115.256	183.389	739.844	524.143
4143	113.761	183.055	741.169	522.821
4144	112.36	182.743	742.41	521.582
4145	111.175	182.515	744.199	520.674
4146	110.974	182.783	750.688	521.699
4147	110.784	183.037	756.812	522.665
4148	110.605	183.275	762.57	523.574
4149	110.44	183.495	767.901	524.415
4150	110.298	183.697	772.625	525.184
4151	110.464	183.834	771.609	525.715
4152	110.62	183.962	770.654	526.215
4153	110.773	184.089	769.716	526.706
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4155	111.076	184.338	767.866	527.674
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4157	111.372	184.572	765.971	528.603
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4159	111.385	184.26	763.594	528.038
4160	111.391	184.107	762.431	527.762
4161	111.397	183.957	761.285	527.49
4162	111.403	183.803	760.115	527.212
4163	169.342	-335.571	1108.51	-755.217
4164	165.212	-330.248	1094.77	-744.945
4165	158.481	-317.443	1051.55	-717.777
4166	150.677	-297.347	971.806	-673.772
4167	145.112	-277.384	930.368	-626.923
4168	139.705	-257.546	895.992	-581.005
4169	134.346	-237.805	879.832	-535.374
4170	129.252	-218.077	870.925	-489.639
4171	124.671	-198.35	847.815	-443.152
4172	121.807	-178.622	806.032	-397.635
4173	121.636	-158.894	819.59	-350.254
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4201	137.228	23.8951	857.482	94.2106
4202	137.253	36.7058	881.611	128.964
4203	137.275	49.5086	901.772	163.128
4204	137.298	62.303	916.942	197.932
4205	137.322	75.0891	925.65	232.719
4206	137.347	87.8662	931.854	268.309
4207	137.374	100.634	929.138	304.509
4208	137.401	113.392	926.424	340.681
4209	137.431	126.14	947.801	377.047
4210	137.46	138.877	969.749	413.389
4211	139.058	151.604	967.08	448.576
4212	141.192	164.321	955.977	483.347
4213	144.25	176.214	954.846	515.923
4214	148.383	187.244	964.298	547.29
4215	149.922	194.591	964.193	567.769
4216	143.977	191.197	936.629	556.524
4217	138.461	188.049	911.058	546.093
4218	134.923	186.746	887.87	541.091
4219	132.073	186.033	866.01	537.859
4220	129.356	185.354	845.162	534.776
4221	127.301	185.139	825.447	533.481
4222	125.445	185.034	806.479	532.618
4223	123.653	184.932	788.17	531.785
4224	121.935	184.729	773.406	530.586
4225	120.283	184.407	762.527	528.957
4226	118.68	184.095	751.974	527.378
4227	117.126	183.793	741.738	525.845
4228	115.72	183.493	739.433	524.553
4229	114.396	183.197	740.607	523.382
4230	113.105	182.909	741.75	522.24
4231	111.847	182.628	742.865	521.128
4232	111.103	182.612	746.539	521.044
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4236	110.308	183.705	772.561	525.217
4237	110.578	183.928	770.909	526.082
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4247	45.6122	-48.6286	445.745	-101.618
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4274	72.2164	103.803	501.195	298.572
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4278	113.441	182.984	741.452	522.538
4279	149.516	-293.084	963.055	-663.886
4280	144.521	-274.746	925.415	-621.362
4281	139.306	-256.103	893.527	-577.648
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4283	129.23	-217.984	870.82	-489.419
4284	124.7	-198.548	848.236	-443.611
4285	121.846	-178.888	806.595	-398.249
4286	121.628	-159.16	819.201	-350.9
4287	121.937	-139.431	851.656	-303.427
4288	121.991	-119.701	874.082	-257.2
4289	122.041	-99.9715	854.759	-213.545
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4316	137.275	49.336	901.472	162.824
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4318	137.322	74.9167	925.438	232.541
4319	137.347	87.6939	931.89	267.821
4320	137.374	100.462	929.174	304.021
4321	137.401	113.22	926.461	340.194
4322	137.43	125.968	947.543	376.426
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4327	148.328	187.096	964.171	546.869
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4329	144.072	191.251	937.068	556.703
4330	138.577	188.115	911.595	546.312
4331	135.011	186.768	888.549	541.191
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4333	129.65	185.427	847.418	535.11
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4336	124.217	184.964	793.932	532.048
4337	122.621	184.862	777.923	531.262
4338	121.079	184.562	767.77	529.742
4339	119.591	184.273	757.97	528.275
4340	118.15	183.992	748.48	526.855
4341	116.752	183.72	739.275	525.477
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4370	25.3167	1.23E+01	377.266	51.8669
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4394	33.7854	8.93781	369.21	37.7098
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4404	35.9143	15.5679	383.172	55.9226
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010902

1533

4572	0	0	0	0
4573	0	0	0	0
4574	0	0	0	0
4575	0	0	0	0
4576	0	0	0	0
4577	0	0	0	0
4578	0	0	0	0
4579	0	0	0	0
4580	0	0	0	0
4581	0	0	0	0
4582	0	0	0	0
4583	0	0	0	0
4584	0	0	0	0
4585	0	0	0	0
4586	0	0	0	0
4587	0	0	0	0
4588	0	0	0	0
4589	0	0	0	0
4590	0	0	0	0
4591	0	0	0	0
4592	0	0	0	0
4593	0	0	0	0
4594	0	0	0	0
4595	0	0	0	0
4596	0	0	0	0
4597	0	0	0	0
4598	0	0	0	0
4599	0	0	0	0
4600	0	0	0	0
4601	0	0	0	0
4602	0	0	0	0
4603	0	0	0	0

010903

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

time(s)	Eln(kwh)	Eln_T(kwh)	Eln_B(kwh)
4603	755.945	1193.6	437.659

time(s)	lcapa_vsi(A) rms_w4603.	Is_vsi(A)_rms_w4603.
4603	261.501	397.236

010904

time(s)	Eln(kwh)	Eln_T(kwh)	Eln_B(kwh)
0	0	0	0
1	1.86E-02	1.86E-02	0
2	8.86E-02	8.86E-02	0
3	0.216476	0.216476	0
4	0.387765	0.387765	0
5	0.601894	0.601894	0
6	0.859477	0.859477	0
7	1.16104	1.16104	0
8	1.50711	1.50711	0
9	1.89838	1.89838	0
10	2.33489	2.33489	0
11	2.81681	2.81681	0
12	3.34377	3.34377	0
13	3.9147	3.9147	0
14	4.52827	4.52827	0
15	5.18238	5.18238	0
16	5.87531	5.87531	0
17	6.58101	6.58101	0
18	7.27363	7.27363	0
19	7.95535	7.95535	0
20	8.63078	8.63078	0
21	9.3022	9.3022	0
22	9.97051	9.97051	0
23	10.6371	10.6371	0
24	11.3026	11.3026	0
25	11.967	11.967	0
26	12.3605	12.3605	0
27	12.5044	12.5044	0
28	12.6755	12.6755	0
29	12.8593	12.8593	0
30	13.041	13.041	0
31	13.2174	13.2174	0
32	13.4	13.4	0
33	13.585	13.585	0
34	13.7701	13.7701	0
35	13.9551	13.9551	0
36	14.1402	14.1402	0
37	14.3252	14.3252	0
38	14.5102	14.5102	0

time(s)	lcapa_vsi(A)	Is_vsi(A)	IsPeak_vsi(A)
0	41.8616	112.672	162.204
1	134.054	367.483	553.102
2	231.813	550.308	849.139
3	248.452	551.427	876.276
4	269.647	552.801	896.411
5	289.338	554.161	914.705
6	302.672	555.421	923.273
7	315.813	556.683	931.881
8	319.186	557.738	929.857
9	321.921	558.778	927.143
10	319.491	561.038	942.016
11	314.944	563.79	963.936
12	310.146	568.033	970.024
13	305.066	573.89	958.917
14	301.086	581.598	952.327
15	301.391	596.601	961.802
16	301.459	610.982	970.509
17	284.983	589.039	943.732
18	269.196	567.62	917.647
19	256.463	550.948	893.837
20	246.387	538.474	871.701
21	236.778	526.577	850.59
22	225.641	516.966	830.586
23	213.285	509.154	811.439
24	201.359	501.613	792.958
25	189.912	494.5	776.559
26	90.0915	173.157	394.213
27	93.482	188.196	402.651
28	94.6656	193.32	405.367
29	95.9729	198.903	408.15
30	94.2147	191.388	404.392
31	94.9257	194.43	405.92
32	95.4415	196.634	407.019
33	95.4415	196.634	407.019
34	95.4415	196.634	407.019
35	95.4415	196.634	407.019
36	95.4415	196.634	407.019
37	95.4415	196.634	407.019
38	95.4415	196.634	407.019

1505

010905

39	14.6953	14.6953	0
40	14.8803	14.8803	0
41	15.0654	15.0654	0
42	15.2504	15.2504	0
43	15.4191	15.4191	0
44	15.5685	15.5685	0
45	15.7122	15.7122	0
46	15.8525	15.8525	0
47	15.989	15.989	0
48	16.3865	16.3865	0
49	17.0473	17.0473	0
50	17.7063	17.7063	0
51	18.3637	18.3637	0
52	19.0197	19.0197	0
53	19.6745	19.6745	0
54	20.3281	20.3281	0
55	20.9806	20.9806	0
56	21.632	21.632	0
57	22.2832	22.2832	0
58	22.9353	22.9353	0
59	23.5885	23.5885	0
60	24.2427	24.2427	0
61	24.8979	24.8979	0
62	25.5541	25.5541	0
63	26.2112	26.2112	0
64	26.8691	26.8691	0
65	27.5278	27.5278	0
66	28.1874	28.1874	0
67	28.8478	28.8478	0
68	29.5083	29.5083	0
69	30.1682	30.1682	0
70	30.8277	30.8277	0
71	31.4866	31.4866	0
72	32.1451	32.1451	0
73	32.8026	32.8026	0
74	33.4585	33.4585	0
75	34.1127	34.1127	0
76	34.7654	34.7654	0
77	35.4166	35.4166	0
78	35.7805	35.7805	0
79	35.8578	35.8578	0
80	35.9351	35.9351	0
81	36.0319	36.0319	0
82	36.1509	36.1509	0
83	36.2755	36.2755	0
84	36.3953	36.3953	0
85	36.5076	36.5076	0
86	36.6199	36.6199	0
87	36.1614	36.6199	0.458521
88	35.1282	36.6199	1.49169
89	34.0905	36.6199	2.52946
90	33.0602	36.6199	3.55968
91	32.0579	36.6199	4.56201
92	31.1051	36.6199	5.51479
93	30.2143	36.6199	6.4056
94	29.3869	36.6199	7.23299

39	95.4415	196.634	407.019
40	95.4415	196.634	407.019
41	95.4415	196.634	407.019
42	95.4415	196.634	407.019
43	92.3636	183.323	399.994
44	91.8558	181.111	398.787
45	91.3717	178.983	397.611
46	91.2753	178.544	397.355
47	90.839	176.559	396.197
48	177.059	487.135	764.836
49	166.812	481.263	755.488
50	156.872	475.567	746.422
51	148.317	470.329	738.686
52	148.462	466.191	739.671
53	148.602	462.18	740.626
54	148.738	458.292	741.551
55	148.871	454.486	742.457
56	149.002	450.721	743.353
57	150.792	450.708	748.212
58	152.726	451.089	753.406
59	154.63	451.464	758.521
60	156.551	451.842	763.681
61	158.498	452.225	768.909
62	159.658	452.626	772.309
63	158.829	453.073	771.076
64	157.971	453.534	769.803
65	157.096	454.005	768.502
66	156.203	454.485	767.175
67	155.347	454.859	765.775
68	154.739	454.663	764.084
69	154.141	454.47	762.422
70	153.553	454.281	760.788
71	152.975	454.095	759.182
72	152.407	453.912	757.603
73	151.802	453.033	755.182
74	151.206	452.156	752.785
75	150.621	451.293	750.428
76	150.045	450.445	748.112
77	149.479	449.612	745.835
78	95.5939	132.966	377.762
79	95.5939	132.966	377.762
80	95.5939	132.966	377.762
81	96.3015	143.125	380.148
82	96.4509	145.013	380.648
83	96.6002	146.9	381.147
84	96.2124	141.934	379.849
85	96.2124	141.934	379.849
86	96.2124	141.934	379.849
87	550.393	624.32	1020.65
88	549.567	626.115	1029.35
89	550.146	624.684	1034.48
90	554.244	613.627	1027.67
91	558.695	591.594	989.821
92	561.295	562.241	918.381
93	566.777	545.523	880.107
94	574.378	528.76	854.819

1596

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010906

95	28.6224	36.6199	7.99752
96	27.9208	36.6199	8.69909
97	27.2828	36.6199	9.33714
98	26.708	36.6199	9.91192
99	26.1972	36.6199	10.4227
100	25.7516	36.6199	10.8683
101	25.3703	36.6199	11.2496
102	25.0507	36.6199	11.5692
103	24.7938	36.6199	11.8261
104	24.6001	36.6199	12.0198
105	24.4816	36.6199	12.1383
106	24.4498	36.6199	12.1701
107	24.4594	36.6295	12.1701
108	24.4638	36.6339	12.1701
109	24.4638	36.6339	12.1701
110	24.4638	36.6339	12.1701
111	24.4638	36.6339	12.1701
112	24.4638	36.6339	12.1701
113	24.4638	36.6339	12.1701
114	24.4638	36.6339	12.1701
115	24.4638	36.6339	12.1701
116	24.4638	36.6339	12.1701
117	24.4638	36.6339	12.1701
118	24.4638	36.6339	12.1701
119	24.4638	36.6339	12.1701
120	24.4638	36.6339	12.1701
121	24.4638	36.6339	12.1701
122	24.4638	36.6339	12.1701
123	24.4638	36.6339	12.1701
124	24.4638	36.6339	12.1701
125	24.4866	36.6567	12.1701
126	24.5502	36.7204	12.1701
127	24.651	36.8212	12.1701
128	24.7928	36.9629	12.1701
129	24.9777	37.1478	12.1701
130	25.2057	37.3759	12.1701
131	25.4774	37.6475	12.1701
132	25.793	37.9632	12.1701
133	26.1533	38.3234	12.1701
134	26.5588	38.729	12.1701
135	27.0098	39.1799	12.1701
136	27.5062	39.6763	12.1701
137	28.0472	40.2174	12.1701
138	28.6319	40.802	12.1701
139	29.2581	41.4282	12.1701
140	29.9231	42.0932	12.1701
141	30.6203	42.7904	12.1701
142	31.3243	43.4944	12.1701
143	32.0158	44.186	12.1701
144	32.6976	44.8677	12.1701
145	33.3738	45.5439	12.1701
146	34.0467	46.2168	12.1701
147	34.7166	46.8867	12.1701
148	35.3844	47.5545	12.1701
149	36.0512	48.2214	12.1701
150	36.7174	48.8875	12.1701

95	579.633	514.24	850.193
96	580.604	504.338	850.132
97	576.111	500.279	833.452
98	566.096	499.678	805.029
99	555.269	505.589	846.866
100	541.109	507.774	885.007
101	519.292	505.072	893.739
102	485.062	499.921	866.726
103	437.783	497.316	851.996
104	376.744	494.462	824.2
105	239.847	401.937	658.507
106	91.7229	272.298	434.164
107	96.5431	270.901	407.279
108	0	0	0
109	0	0	0
110	0	0	0
111	0	0	0
112	0	0	0
113	0	0	0
114	0	0	0
115	0	0	0
116	0	0	0
117	0	0	0
118	0	0	0
119	0	0	0
120	0	0	0
121	0	0	0
122	0	0	0
123	0	0	0
124	0	0	0
125	213.071	549.005	806.356
126	224.214	549.78	831.793
127	236.189	550.613	859.129
128	255.177	551.863	882.664
129	276.368	553.237	902.795
130	293.694	554.558	917.392
131	306.841	555.821	926.004
132	317.317	557.027	931.712
133	319.971	558.072	929.06
134	322.582	559.156	926.984
135	318.042	561.91	948.949
136	313.505	564.663	970.896
137	308.534	569.891	966.5
138	303.475	575.724	955.44
139	301.176	586.035	955.13
140	301.469	600.477	964.25
141	298.373	607.206	965.855
142	282.839	586.129	940.188
143	268.761	567.029	916.927
144	257.558	552.303	896.242
145	249.094	541.825	877.647
146	241.299	532.174	860.521
147	234.298	523.507	845.141
148	226.086	517.248	831.276
149	217.982	512.124	818.718
150	210.676	507.504	807.396

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT EBRCL130R00.xls

ALSTOM

010907

151	37.3829	49.553	12.1701
152	38.0478	50.218	12.1701
153	38.7121	50.8823	12.1701
154	39.2482	51.4183	12.1701
155	39.6199	51.7901	12.1701
156	39.9572	52.1274	12.1701
157	40.3134	52.4835	12.1701
158	40.6886	52.8587	12.1701
159	41.0686	53.2388	12.1701
160	41.4542	53.6243	12.1701
161	41.8456	54.0157	12.1701
162	42.2266	54.3967	12.1701
163	42.5943	54.7644	12.1701
164	42.962	55.1321	12.1701
165	43.3297	55.4998	12.1701
166	43.6974	55.8675	12.1701
167	44.0651	56.2352	12.1701
168	44.4327	56.6029	12.1701
169	44.8004	56.9706	12.1701
170	45.1681	57.3382	12.1701
171	45.5358	57.7059	12.1701
172	45.9035	58.0736	12.1701
173	46.2712	58.4413	12.1701
174	46.6389	58.809	12.1701
175	47.0066	59.1767	12.1701
176	47.3743	59.5444	12.1701
177	47.742	59.9121	12.1701
178	48.1096	60.2798	12.1701
179	48.4622	60.6323	12.1701
180	48.7974	60.9675	12.1701
181	49.1319	61.302	12.1701
182	49.4634	61.6335	12.1701
183	49.84	62.0101	12.1701
184	50.384	62.5541	12.1701
185	51.0452	63.2154	12.1701
186	51.7053	63.8754	12.1701
187	52.364	64.5341	12.1701
188	53.0214	65.1915	12.1701
189	53.6775	65.8476	12.1701
190	54.3325	66.5026	12.1701
191	54.9862	67.1563	12.1701
192	55.6387	67.8088	12.1701
193	56.29	68.4602	12.1701
194	56.9416	69.1117	12.1701
195	57.5944	69.7645	12.1701
196	58.2484	70.4186	12.1701
197	58.9037	71.0738	12.1701
198	59.5601	71.7302	12.1701
199	60.2174	72.3876	12.1701
200	60.8756	73.0458	12.1701
201	61.5347	73.7048	12.1701
202	61.3472	73.7048	12.3577
203	60.3256	73.7048	13.3793
204	59.3447	73.7048	14.3601
205	58.4225	73.7048	15.2824
206	57.5627	73.7048	16.1421

151	203.885	503.21	796.871
152	197.235	499.005	786.566
153	190.631	494.912	777.215
154	127.036	319.11	532.841
155	114.007	274.701	470.212
156	114.689	277.188	473.749
157	120.211	297.221	502.15
158	121.02	300.096	506.186
159	121.894	303.201	510.546
160	122.905	306.794	515.592
161	123.917	310.387	520.637
162	119.321	294.057	497.708
163	119.321	294.057	497.708
164	119.321	294.057	497.708
165	119.321	294.057	497.708
166	119.321	294.057	497.708
167	119.321	294.057	497.708
168	119.321	294.057	497.708
169	119.321	294.057	497.708
170	119.321	294.057	497.708
171	119.321	294.057	497.708
172	119.321	294.057	497.708
173	119.321	294.057	497.708
174	119.321	294.057	497.708
175	119.321	294.057	497.708
176	119.321	294.057	497.708
177	119.321	294.057	497.708
178	119.321	294.057	497.708
179	114.361	275.994	472.052
180	113.643	273.369	468.331
181	114.138	275.18	470.894
182	112.74	269.958	463.909
183	131.222	330.377	548.498
184	178.154	487.762	765.834
185	171.226	483.792	759.514
186	163.91	479.6	752.841
187	156.239	475.204	745.844
188	148.307	470.63	738.614
189	148.442	466.761	739.535
190	148.583	462.724	740.496
191	148.73	458.521	741.497
192	148.882	454.155	742.536
193	149.403	450.435	744.483
194	151.817	450.91	750.965
195	154.185	451.376	757.326
196	156.508	451.833	763.566
197	158.788	452.282	769.689
198	159.431	452.748	771.972
199	158.533	453.232	770.637
200	157.649	453.707	769.324
201	156.78	454.175	768.033
202	551.371	621.43	1034
203	557.246	605.474	1021.95
204	559.77	575.911	951.46
205	564.01	553.962	899.426
206	570.382	537.32	867.105

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010903

207	56.7662	73.7048	16.9387
208	56.0323	73.7048	17.6725
209	55.3616	73.7048	18.3433
210	54.7543	73.7048	18.9506
211	54.2104	73.7048	19.4945
212	53.7312	73.7048	19.9737
213	53.317	73.7048	20.3878
214	52.9658	73.7048	20.7391
215	52.6765	73.7048	21.0283
216	52.4504	73.7048	21.2544
217	52.2867	73.7048	21.4181
218	52.211	73.7048	21.4938
219	52.2066	73.7048	21.4982
220	52.2155	73.7137	21.4982
221	52.2195	73.7177	21.4982
222	52.2195	73.7177	21.4982
223	52.2195	73.7177	21.4982
224	52.2195	73.7177	21.4982
225	52.2195	73.7177	21.4982
226	52.2195	73.7177	21.4982
227	52.2195	73.7177	21.4982
228	52.2195	73.7177	21.4982
229	52.2195	73.7177	21.4982
230	52.2195	73.7177	21.4982
231	52.2195	73.7177	21.4982
232	52.2195	73.7177	21.4982
233	52.2195	73.7177	21.4982
234	52.2195	73.7177	21.4982
235	52.2195	73.7177	21.4982
236	52.2195	73.7177	21.4982
237	52.2195	73.7177	21.4982
238	52.251	73.7492	21.4982
239	52.332	73.8303	21.4982
240	52.4522	73.9504	21.4982
241	52.6149	74.1131	21.4982
242	52.8204	74.3186	21.4982
243	53.0693	74.5675	21.4982
244	53.3622	74.8604	21.4982
245	53.6993	75.1975	21.4982
246	54.0815	75.5797	21.4982
247	54.5091	76.0073	21.4982
248	54.9821	76.4803	21.4982
249	55.5002	76.9984	21.4982
250	56.0626	77.5608	21.4982
251	56.6679	78.1661	21.4982
252	57.3142	78.8124	21.4982
253	57.9997	79.498	21.4982
254	58.7033	80.2015	21.4982
255	59.3985	80.8967	21.4982
256	60.0819	81.5801	21.4982
257	60.758	82.2562	21.4982
258	61.43	82.9282	21.4982
259	62.0986	83.5968	21.4982
260	62.7652	84.2634	21.4982
261	63.4307	84.9289	21.4982
262	64.0949	85.5931	21.4982

207	577.773	520.896	846.271
208	581.433	507.922	854.349
209	578.713	502.184	842.649
210	571.254	499.987	819.667
211	560.929	501.884	818.199
212	549.621	508.569	872.075
213	533.11	507.072	897.508
214	503.014	502.513	880.343
215	462.14	498.658	859.585
216	410.129	495.967	840.362
217	344.308	491.782	807.096
218	141.546	317.391	518.68
219	94.0598	271.62	421.13
220	98.88	270.224	394.244
221	0	0	0
222	0	0	0
223	0	0	0
224	0	0	0
225	0	0	0
226	0	0	0
227	0	0	0
228	0	0	0
229	0	0	0
230	0	0	0
231	0	0	0
232	0	0	0
233	0	0	0
234	0	0	0
235	0	0	0
236	0	0	0
237	0	0	0
238	218.473	549.381	818.689
239	229.617	550.156	844.126
240	244.255	551.155	872.289
241	265.354	552.531	892.447
242	286.456	553.907	912.589
243	300.069	555.17	921.568
244	313.212	556.433	930.178
245	318.518	557.538	930.484
246	321.38	558.572	927.68
247	320.38	560.492	937.635
248	315.842	563.245	959.592
249	311.152	566.872	972.223
250	306.071	572.731	961.115
251	301.025	578.611	950.441
252	301.331	593.642	959.934
253	301.633	608.534	969.339
254	288.252	593.474	949.132
255	272.187	571.678	922.589
256	258.361	553.297	898.007
257	247.966	540.429	875.17
258	237.945	528.022	853.153
259	226.57	517.554	832.026
260	213.384	509.216	811.592
261	200.485	501.061	791.604
262	187.53	493.135	774.386

1539

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010909

263	64.7572	86.2554	21.4982
264	65.4172	86.9154	21.4982
265	66.0749	87.5732	21.4982
266	66.7307	88.229	21.4982
267	67.3848	88.883	21.4982
268	68.0372	89.5354	21.4982
269	68.6886	90.1869	21.4982
270	69.3409	90.8391	21.4982
271	69.9946	91.4928	21.4982
272	70.6498	92.148	21.4982
273	71.3064	92.8046	21.4982
274	71.964	93.4622	21.4982
275	72.6226	94.1208	21.4982
276	73.2822	94.7804	21.4982
277	73.9426	95.4408	21.4982
278	74.603	96.1012	21.4982
279	75.2629	96.7611	21.4982
280	75.9224	97.4206	21.4982
281	76.4221	97.9204	21.4982
282	76.0734	97.9204	21.847
283	75.0495	97.9204	22.8709
284	74.0683	97.9204	23.8521
285	73.1484	97.9204	24.7719
286	72.2942	97.9204	25.6261
287	71.8451	97.9204	26.0753
288	71.8813	97.9565	26.0753
289	72.0306	98.1059	26.0753
290	72.18	98.2553	26.0753
291	72.3294	98.4046	26.0753
292	72.4787	98.554	26.0753
293	72.6589	98.7342	26.0753
294	72.8728	98.9481	26.0753
295	73.0925	99.1678	26.0753
296	73.3179	99.3931	26.0753
297	73.549	99.6243	26.0753
298	73.769	99.8443	26.0753
299	73.975	100.05	26.0753
300	74.1809	100.256	26.0753
301	74.3869	100.462	26.0753
302	74.5929	100.668	26.0753
303	74.7989	100.874	26.0753
304	75.0049	101.08	26.0753
305	75.2108	101.286	26.0753
306	75.4168	101.492	26.0753
307	75.6228	101.698	26.0753
308	75.8288	101.904	26.0753
309	76.0347	102.11	26.0753
310	76.2407	102.316	26.0753
311	76.4467	102.522	26.0753
312	76.6527	102.728	26.0753
313	76.856	102.931	26.0753
314	77.0553	103.131	26.0753
315	77.2673	103.343	26.0753
316	77.4934	103.569	26.0753
317	77.7194	103.795	26.0753
318	77.9466	104.022	26.0753

263	174.137	485.46	762.17
264	160.945	477.9	750.137
265	148.312	470.488	738.648
266	148.519	464.563	740.059
267	148.72	458.788	741.433
268	148.917	453.161	742.773
269	150.455	450.642	747.307
270	153.338	451.209	755.051
271	156.167	451.766	762.649
272	158.943	452.312	770.104
273	159.209	452.868	771.641
274	158.174	453.425	770.103
275	157.163	453.969	768.602
276	156.179	454.498	767.14
277	155.299	454.844	765.641
278	154.696	454.649	763.965
279	154.141	454.47	762.422
280	153.633	454.307	761.01
281	114.605	252.874	465.185
282	550.648	623.391	1035.59
283	556.933	606.325	1021.74
284	559.79	575.609	950.722
285	564.383	552.825	896.824
286	571.228	535.508	864.503
287	240.912	200.492	476.929
288	92.1058	182.2	399.381
289	92.1058	182.2	399.381
290	92.1058	182.2	399.381
291	92.1058	182.2	399.381
292	92.1058	182.2	399.381
293	98.1978	208.247	413.049
294	98.8866	211.027	414.681
295	99.5754	213.808	416.312
296	100.264	216.588	417.943
297	100.953	219.368	419.574
298	97.5907	205.796	411.612
299	97.5907	205.796	411.612
300	97.5907	205.796	411.612
301	97.5907	205.796	411.612
302	97.5907	205.796	411.612
303	97.5907	205.796	411.612
304	97.5907	205.796	411.612
305	97.5907	205.796	411.612
306	97.5907	205.796	411.612
307	97.5907	205.796	411.612
308	97.5907	205.796	411.612
309	97.5907	205.796	411.612
310	97.5907	205.796	411.612
311	97.5907	205.796	411.612
312	97.5907	205.796	411.612
313	97.0371	203.449	410.416
314	96.7556	202.246	409.816
315	100.002	215.53	417.322
316	100.002	215.53	417.322
317	100.002	215.53	417.322
318	100.262	216.578	417.937

010910

319	78.1777	104.253	26.0753
320	78.3977	104.473	26.0753
321	78.6037	104.679	26.0753
322	78.8096	104.885	26.0753
323	79.0156	105.091	26.0753
324	79.2216	105.297	26.0753
325	79.4276	105.503	26.0753
326	79.6335	105.709	26.0753
327	79.8395	105.915	26.0753
328	80.0455	106.121	26.0753
329	80.2515	106.327	26.0753
330	80.4575	106.533	26.0753
331	80.6634	106.739	26.0753
332	80.8694	106.945	26.0753
333	81.0754	107.151	26.0753
334	81.2814	107.357	26.0753
335	81.4873	107.563	26.0753
336	81.6728	107.748	26.0753
337	81.8304	107.906	26.0753
338	81.9732	108.049	26.0753
339	82.1014	108.177	26.0753
340	82.269	108.344	26.0753
341	82.7068	108.782	26.0753
342	83.3672	109.442	26.0753
343	84.0257	110.101	26.0753
344	84.6677	110.743	26.0753
345	84.5761	110.743	26.1669
346	83.798	110.743	26.945
347	83.0825	110.743	27.6605
348	82.4304	110.743	28.3126
349	81.8416	110.743	28.9014
350	81.3166	110.743	29.4264
351	80.8565	110.743	29.8865
352	80.4613	110.743	30.2817
353	80.1283	110.743	30.6147
354	79.8573	110.743	30.8857
355	79.6497	110.743	31.0933
356	79.5117	110.743	31.2313
357	79.4674	110.743	31.2756
358	79.4774	110.753	31.2756
359	79.4819	110.758	31.2756
360	79.4819	110.758	31.2756
361	79.4819	110.758	31.2756
362	79.4819	110.758	31.2756
363	79.4819	110.758	31.2756
364	79.4819	110.758	31.2756
365	79.4819	110.758	31.2756
366	79.4819	110.758	31.2756
367	79.4819	110.758	31.2756
368	79.4819	110.758	31.2756
369	79.4819	110.758	31.2756
370	79.4819	110.758	31.2756
371	79.4819	110.758	31.2756
372	79.4819	110.758	31.2756
373	79.4819	110.758	31.2756
374	79.4819	110.758	31.2756

319	100.95	219.358	419.568
320	97.5907	205.796	411.612
321	97.5907	205.796	411.612
322	97.5907	205.796	411.612
323	97.5907	205.796	411.612
324	97.5907	205.796	411.612
325	97.5907	205.796	411.612
326	97.5907	205.796	411.612
327	97.5907	205.796	411.612
328	97.5907	205.796	411.612
329	97.5907	205.796	411.612
330	97.5907	205.796	411.612
331	97.5907	205.796	411.612
332	97.5907	205.796	411.612
333	97.5907	205.796	411.612
334	97.5907	205.796	411.612
335	97.5907	205.796	411.612
336	93.4984	188.268	402.69
337	92.1811	182.528	399.56
338	90.9846	177.221	396.583
339	89.9315	172.429	393.788
340	98.5961	209.864	413.98
341	175.231	486.087	763.168
342	164.302	479.824	753.199
343	153.51	473.64	743.355
344	142.486	447.633	709.896
345	572.676	532.375	859.882
346	578.83	517.06	848.338
347	581.461	505.314	853.524
348	577.574	500.886	838.142
349	568.32	499.811	811.342
350	557.71	503.991	834.502
351	544.78	508.117	879.43
352	526.751	506.244	899.877
353	493.177	500.966	872.248
354	448.288	497.895	855.269
355	391.142	495.111	831.17
356	284.899	440.685	722.59
357	90.0754	272.775	443.354
358	95.4721	271.211	413.252
359	0	0	0
360	0	0	0
361	0	0	0
362	0	0	0
363	0	0	0
364	0	0	0
365	0	0	0
366	0	0	0
367	0	0	0
368	0	0	0
369	0	0	0
370	0	0	0
371	0	0	0
372	0	0	0
373	0	0	0
374	0	0	0

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010911

375	79.4819	110.758	31.2756
376	79.5008	110.776	31.2756
377	79.5565	110.832	31.2756
378	79.6484	110.924	31.2756
379	79.7804	111.056	31.2756
380	79.9557	111.231	31.2756
381	80.174	111.45	31.2756
382	80.4357	111.711	31.2756
383	80.7415	112.017	31.2756
384	81.0917	112.367	31.2756
385	81.4871	112.763	31.2756
386	81.928	113.204	31.2756
387	82.4143	113.69	31.2756
388	82.9455	114.221	31.2756
389	83.5206	114.796	31.2756
390	84.1381	115.414	31.2756
391	84.7959	116.072	31.2756
392	85.4908	116.766	31.2756
393	86.1958	117.471	31.2756
394	86.8872	118.163	31.2756
395	87.5681	118.844	31.2756
396	88.2431	119.519	31.2756
397	88.914	120.19	31.2756
398	89.582	120.858	31.2756
399	90.2485	121.524	31.2756
400	90.9138	122.189	31.2756
401	91.5778	122.853	31.2756
402	92.24	123.516	31.2756
403	92.9001	124.176	31.2756
404	93.5583	124.834	31.2756
405	94.2146	125.49	31.2756
406	94.8693	126.145	31.2756
407	95.5226	126.798	31.2756
408	96.1743	127.45	31.2756
409	96.8257	128.101	31.2756
410	97.4781	128.754	31.2756
411	98.1318	129.407	31.2756
412	98.7868	130.062	31.2756
413	99.4431	130.719	31.2756
414	100.1	131.376	31.2756
415	100.759	132.034	31.2756
416	101.418	132.693	31.2756
417	102.078	133.353	31.2756
418	102.738	134.014	31.2756
419	103.398	134.674	31.2756
420	104.058	135.334	31.2756
421	104.717	135.993	31.2756
422	105.376	136.652	31.2756
423	106.034	137.31	31.2756
424	106.692	137.967	31.2756
425	107.348	138.624	31.2756
426	108.004	139.279	31.2756
427	108.659	139.934	31.2756
428	109.313	140.589	31.2756
429	109.967	141.243	31.2756
430	110.621	141.897	31.2756

375	0	0	0
376	210.595	548.833	800.704
377	221.738	549.608	826.142
378	233.124	550.399	852.132
379	250.427	551.559	878.198
380	271.66	552.932	898.323
381	290.587	554.282	915.527
382	303.921	555.541	924.091
383	316.709	556.796	932.315
384	319.345	557.842	929.674
385	322.181	558.876	926.885
386	319.05	561.299	944.07
387	314.513	564.051	966.021
388	309.663	568.589	968.968
389	304.583	574.446	957.863
390	301.115	583.029	953.231
391	301.42	598.019	962.698
392	300.327	609.857	969.084
393	283.432	586.934	941.168
394	267.739	565.642	915.238
395	255.417	549.653	891.54
396	245.29	537.116	869.291
397	235.585	525.1	847.968
398	223.765	515.781	827.68
399	211.129	507.791	808.098
400	198.858	500.032	789.083
401	186.535	492.565	773.479
402	174.295	485.55	762.314
403	162.376	478.721	751.442
404	150.759	472.063	740.845
405	148.449	466.551	739.585
406	148.628	461.434	740.803
407	148.804	456.4	742.001
408	148.975	451.495	743.169
409	150.972	450.744	748.697
410	153.49	451.239	755.459
411	155.96	451.725	762.094
412	158.384	452.203	768.604
413	159.539	452.691	772.131
414	158.584	453.205	770.712
415	157.644	453.71	769.317
416	156.721	454.206	767.945
417	155.813	454.695	766.596
418	155.086	454.775	765.048
419	154.48	454.58	763.364
420	153.875	454.385	761.682
421	153.281	454.193	760.032
422	152.747	454.021	758.547
423	152.277	453.733	757.093
424	151.859	453.117	755.41
425	151.522	452.62	754.053
426	151.264	452.241	753.017
427	151.086	451.978	752.3
428	150.967	451.804	751.824
429	150.855	451.638	751.371
430	150.744	451.475	750.925

SIMULACIONES, CÁLCULOS Y GRÁFICAS

010912

431	111.275	142.551	31.2756
432	111.928	143.204	31.2756
433	112.581	143.857	31.2756
434	113.234	144.51	31.2756
435	113.887	145.162	31.2756
436	114.539	145.815	31.2756
437	115.191	146.467	31.2756
438	115.842	147.118	31.2756
439	116.493	147.769	31.2756
440	116.836	148.111	31.2756
441	116.813	148.111	31.2988
442	116.668	148.111	31.4433
443	116.427	148.111	31.6839
444	116.152	148.111	31.9589
445	115.875	148.111	32.2361
446	115.596	148.111	32.5151
447	115.316	148.111	32.795
448	115.036	148.111	33.075
449	114.756	148.111	33.3549
450	114.488	148.111	33.6235
451	114.262	148.111	33.8498
452	113.842	148.111	34.2698
453	113.003	148.111	35.1083
454	111.968	148.111	36.1434
455	110.93	148.111	37.1818
456	109.903	148.111	38.2083
457	108.913	148.111	39.1983
458	107.978	148.111	40.1336
459	107.105	148.111	41.0069
460	106.294	148.111	41.8169
461	105.547	148.111	42.5641
462	104.863	148.111	43.2485
463	104.242	148.111	43.8693
464	103.684	148.111	44.427
465	103.191	148.111	44.9203
466	102.763	148.111	45.3482
467	102.399	148.111	45.7126
468	102.096	148.111	46.0153
469	101.857	148.111	46.2549
470	101.68	148.111	46.4318
471	101.585	148.111	46.5265
472	101.568	148.111	46.543
473	101.577	148.121	46.543
474	101.582	148.125	46.543
475	101.582	148.125	46.543
476	101.582	148.125	46.543
477	101.582	148.125	46.543
478	101.582	148.125	46.543
479	101.582	148.125	46.543
480	101.582	148.125	46.543
481	101.582	148.125	46.543
482	101.582	148.125	46.543
483	101.582	148.125	46.543
484	101.582	148.125	46.543
485	101.582	148.125	46.543
486	101.582	148.125	46.543

431	150.635	451.315	750.488
432	150.528	451.157	750.057
433	150.423	451.003	749.635
434	150.32	450.85	749.219
435	150.218	450.701	748.81
436	150.119	450.554	748.409
437	149.98	450.35	747.851
438	149.723	449.971	746.816
439	149.339	449.405	745.27
440	62.8942	84.7529	248.636
441	253.698	157.449	454.848
442	373.602	188.869	465.157
443	417.833	212.757	473.818
444	419.076	213.567	474.126
445	420.319	214.378	474.434
446	421.338	215.043	474.686
447	421.338	215.043	474.686
448	421.338	215.043	474.686
449	421.338	215.043	474.686
450	407.976	206.331	471.378
451	365.2	184.817	463.737
452	547.703	389.414	679.779
453	550.082	624.996	1023.93
454	549.681	625.817	1031.44
455	550.374	624.13	1035.96
456	555.987	608.895	1023.83
457	559.313	582.584	967.784
458	562.84	557.53	907.596
459	568.696	540.923	872.246
460	576.551	524.106	848.139
461	580.644	510.693	852.526
462	579.546	503.133	845.947
463	573.4	500.116	825.759
464	563.285	500.342	806.268
465	552.297	507.533	861.914
466	536.64	507.357	891.795
467	510.213	503.644	886.267
468	472.277	499.217	862.743
469	424.023	496.593	847.088
470	359.219	493.672	815.716
471	185.015	354.777	580.512
472	93.0264	271.92	426.894
473	97.8465	270.523	400.008
474	0	0	0
475	0	0	0
476	0	0	0
477	0	0	0
478	0	0	0
479	0	0	0
480	0	0	0
481	0	0	0
482	0	0	0
483	0	0	0
484	0	0	0
485	0	0	0
486	0	0	0

010913

487	101.582	148.125	46.543
488	101.582	148.125	46.543
489	101.582	148.125	46.543
490	101.582	148.125	46.543
491	101.609	148.152	46.543
492	101.683	148.226	46.543
493	101.794	148.337	46.543
494	101.948	148.491	46.543
495	102.144	148.687	46.543
496	102.384	148.927	46.543
497	102.668	149.211	46.543
498	102.995	149.538	46.543
499	103.368	149.911	46.543
500	103.786	150.329	46.543
501	104.249	150.792	46.543
502	104.757	151.3	46.543
503	105.31	151.853	46.543
504	105.907	152.45	46.543
505	106.545	153.088	46.543
506	107.222	153.765	46.543
507	107.923	154.466	46.543
508	108.621	155.164	46.543
509	109.307	155.85	46.543
510	109.984	156.527	46.543
511	110.658	157.201	46.543
512	111.327	157.87	46.543
513	111.995	158.538	46.543
514	112.661	159.204	46.543
515	113.326	159.869	46.543
516	113.99	160.533	46.543
517	114.653	161.196	46.543
518	115.314	161.857	46.543
519	115.973	162.516	46.543
520	116.63	163.173	46.543
521	117.286	163.829	46.543
522	117.94	164.483	46.543
523	118.593	165.136	46.543
524	119.245	165.788	46.543
525	119.897	166.44	46.543
526	120.548	167.091	46.543
527	121.201	167.744	46.543
528	121.855	168.398	46.543
529	122.51	169.053	46.543
530	123.166	169.709	46.543
531	123.823	170.366	46.543
532	124.481	171.024	46.543
533	125.14	171.683	46.543
534	125.799	172.342	46.543
535	126.459	173.002	46.543
536	127.119	173.662	46.543
537	126.93	173.662	46.732
538	125.902	173.662	47.7604
539	124.906	173.662	48.7561
540	123.963	173.662	49.6989
541	123.083	173.662	50.579
542	122.267	173.662	51.3953

487	0	0	0
488	0	0	0
489	0	0	0
490	0	0	0
491	216.084	549.215	813.235
492	234.927	549.973	836.611
493	239.919	550.872	867.645
494	260.828	552.236	888.126
495	282.096	553.608	908.237
496	297.25	554.9	919.722
497	310.395	556.163	928.332
498	318.058	557.308	930.977
499	320.734	558.352	928.312
500	321.354	559.901	932.925
501	316.815	562.655	954.886
502	312.242	565.616	974.606
503	307.16	571.475	963.496
504	302.083	577.329	952.396
505	301.265	590.395	957.883
506	301.566	605.226	967.25
507	292.163	598.781	955.595
508	276.104	576.992	929.06
509	261.354	557.002	904.582
510	251.345	544.611	882.593
511	241.861	532.87	861.756
512	232.879	521.75	842.023
513	221.081	514.083	823.52
514	209.659	506.861	805.819
515	198.731	499.951	788.885
516	187.988	493.397	774.804
517	177.133	487.177	764.902
518	166.604	481.143	755.298
519	156.391	475.291	745.982
520	148.335	469.811	738.809
521	148.492	465.335	739.875
522	148.644	460.972	740.913
523	148.793	456.719	741.926
524	148.937	452.575	742.912
525	149.993	450.551	746.066
526	152.115	450.969	751.767
527	154.198	451.378	757.36
528	156.241	451.781	762.849
529	158.246	452.175	768.234
530	159.763	452.57	772.465
531	158.973	452.995	771.291
532	158.197	453.413	770.137
533	157.433	453.823	769.003
534	156.682	454.227	767.888
535	155.944	454.624	766.792
536	155.289	454.84	765.613
537	550.236	624.466	1035.06
538	555.103	611.294	1025.77
539	559.037	586.609	977.626
540	562.216	559.432	911.95
541	567.889	542.66	874.769
542	575.791	525.684	850.204

010914

543	121.514	173.662	52.1484
544	120.824	173.662	52.8384
545	120.197	173.662	53.465
546	119.634	173.662	54.0284
547	119.135	173.662	54.5276
548	118.701	173.662	54.9614
549	118.331	173.662	55.3314
550	118.023	173.662	55.6397
551	117.777	173.662	55.885
552	117.595	173.662	56.0674
553	117.492	173.662	56.17
554	117.471	173.662	56.1916
555	117.48	173.672	56.1916
556	117.484	173.676	56.1916
557	117.484	173.676	56.1916
558	117.484	173.676	56.1916
559	117.484	173.676	56.1916
560	117.484	173.676	56.1916
561	117.484	173.676	56.1916
562	117.484	173.676	56.1916
563	117.484	173.676	56.1916
564	117.484	173.676	56.1916
565	117.484	173.676	56.1916
566	117.484	173.676	56.1916
567	117.484	173.676	56.1916
568	117.484	173.676	56.1916
569	117.484	173.676	56.1916
570	117.484	173.676	56.1916
571	117.484	173.676	56.1916
572	117.484	173.676	56.1916
573	117.51	173.702	56.1916
574	117.58	173.772	56.1916
575	117.688	173.88	56.1916
576	117.838	174.03	56.1916
577	118.031	174.222	56.1916
578	118.266	174.458	56.1916
579	118.546	174.737	56.1916
580	118.869	175.061	56.1916
581	119.238	175.429	56.1916
582	119.652	175.843	56.1916
583	120.111	176.302	56.1916
584	120.615	176.807	56.1916
585	121.164	177.356	56.1916
586	121.757	177.948	56.1916
587	122.391	178.582	56.1916
588	123.064	179.256	56.1916
589	123.765	179.956	56.1916
590	124.465	180.657	56.1916
591	125.153	181.345	56.1916
592	125.832	182.024	56.1916
593	126.507	182.698	56.1916
594	127.178	183.369	56.1916
595	127.846	184.037	56.1916
596	128.512	184.704	56.1916
597	129.178	185.37	56.1916
598	129.843	186.034	56.1916

543	580.308	511.87	851.752
544	579.895	503.531	847.328
545	574.299	500.17	828.31
546	564.271	499.697	801.272
547	553.284	506.887	856.917
548	538.124	507.496	889.542
549	513.227	504.118	888.748
550	476.522	499.45	864.065
551	429.243	496.846	849.345
552	365.038	493.934	818.533
553	203.221	370.436	606.409
554	92.5936	272.045	429.308
555	97.4137	270.649	402.422
556	0	0	0
557	0	0	0
558	0	0	0
559	0	0	0
560	0	0	0
561	0	0	0
562	0	0	0
563	0	0	0
564	0	0	0
565	0	0	0
566	0	0	0
567	0	0	0
568	0	0	0
569	0	0	0
570	0	0	0
571	0	0	0
572	0	0	0
573	215.083	549.145	810.951
574	234.515	549.902	834.169
575	238.681	550.786	864.817
576	258.932	552.113	886.317
577	280.194	553.485	906.43
578	296.07	554.786	918.948
579	309.027	556.058	927.664
580	317.812	557.215	931.221
581	320.548	558.255	928.506
582	321.764	559.654	930.973
583	317.222	562.408	952.915
584	312.717	565.164	974.927
585	307.616	570.949	964.493
586	302.538	576.804	953.392
587	301.238	589.084	957.055
588	301.541	603.994	966.472
589	294.245	601.605	959.034
590	278.698	580.512	933.346
591	264.334	561.023	909.613
592	253.906	547.782	888.219
593	244.754	536.452	868.113
594	236.077	525.71	849.051
595	225.672	516.986	830.633
596	214.159	509.706	812.792
597	203.045	502.679	795.571
598	192.267	495.864	778.868

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010915

599	130.506	186.698	56.1916
600	131.167	187.359	56.1916
601	131.826	188.018	56.1916
602	132.483	188.675	56.1916
603	132.909	189.101	56.1916
604	132.951	189.143	56.1916
605	132.822	189.143	56.3211
606	132.656	189.143	56.4873
607	132.571	189.143	56.5723
608	132.756	189.329	56.5723
609	132.506	189.329	56.8229
610	131.976	189.329	57.3528
611	131.774	189.329	57.5547
612	131.582	189.329	57.7465
613	131.417	189.329	57.9119
614	131.284	189.329	58.0448
615	131.208	189.329	58.1201
616	131.186	189.329	58.1423
617	131.2	189.342	58.1423
618	131.26	189.403	58.1423
619	131.364	189.506	58.1423
620	131.494	189.636	58.1423
621	131.643	189.785	58.1423
622	131.804	189.946	58.1423
623	131.965	190.108	58.1423
624	132.127	190.269	58.1423
625	132.288	190.43	58.1423
626	132.449	190.592	58.1423
627	132.611	190.753	58.1423
628	132.772	190.914	58.1423
629	132.933	191.075	58.1423
630	133.094	191.237	58.1423
631	133.24	191.383	58.1423
632	133.368	191.51	58.1423
633	133.49	191.632	58.1423
634	133.607	191.749	58.1423
635	133.85	191.993	58.1423
636	134.366	192.508	58.1423
637	135.022	193.164	58.1423
638	135.17	193.312	58.1423
639	134.576	193.312	58.7356
640	134.046	193.312	59.2665
641	133.979	193.312	59.3332
642	134.081	193.414	59.3332
643	134.188	193.521	59.3332
644	134.303	193.637	59.3332
645	134.428	193.762	59.3332
646	134.593	193.926	59.3332
647	134.8	194.133	59.3332
648	135.021	194.355	59.3332
649	135.258	194.591	59.3332
650	135.51	194.843	59.3332
651	135.76	195.093	59.3332
652	136.004	195.337	59.3332
653	136.252	195.585	59.3332
654	136.5	195.833	59.3332

599	180.568	489.145	768.036
600	168.632	482.305	757.148
601	156.469	475.336	746.054
602	148.375	468.69	739.076
603	95.7023	190.405	371.358
604	285.924	191.629	447.458
605	324.628	199.38	451.614
606	355.194	209.68	456.547
607	26.997	43.3027	105.562
608	110.984	270.973	471.295
609	566.843	545.324	879.652
610	367.92	221.695	467.892
611	367.92	221.695	467.892
612	351.009	215.79	465.144
613	323.774	206.28	460.718
614	289.121	199.116	457.001
615	170.629	178.379	429.621
616	50.7363	53.0405	127.747
617	65.3806	115.377	277.899
618	85.6626	155.883	362.33
619	87.4237	167.505	367.161
620	87.9239	171.11	368.04
621	89.3006	180.523	370.461
622	89.3006	180.523	370.461
623	89.3006	180.523	370.461
624	89.3006	180.523	370.461
625	89.3006	180.523	370.461
626	89.3006	180.523	370.461
627	89.3006	180.523	370.461
628	89.3006	180.523	370.461
629	89.3006	180.523	370.461
630	89.3006	180.523	370.461
631	87.6926	169.443	367.633
632	87.4406	167.627	367.191
633	87.1887	165.812	366.748
634	86.9368	163.996	366.305
635	108.148	289.649	483.063
636	148.318	470.302	738.692
637	148.48	465.683	739.792
638	463.196	273.399	488.943
639	570.484	537.083	866.692
640	392.47	242.062	506.99
641	88.5937	166.633	389.433
642	88.6695	166.943	389.731
643	89.2587	169.367	392.002
644	89.9059	172.312	393.72
645	90.553	175.257	395.438
646	96.9052	202.886	410.135
647	98.586	209.814	413.969
648	100.373	217.027	418.2
649	102.019	224.504	422.767
650	103.505	232.283	427.46
651	101.688	222.772	421.666
652	102.391	226.454	424.008
653	102.391	226.454	424.008
654	102.391	226.454	424.008

010916

655	136.747	196.081	59.3332
656	136.995	196.329	59.3332
657	137.243	196.576	59.3332
658	137.491	196.824	59.3332
659	137.737	197.07	59.3332
660	137.974	197.308	59.3332
661	138.198	197.532	59.3332
662	138.392	197.726	59.3332
663	138.554	197.887	59.3332
664	138.696	198.029	59.3332
665	138.819	198.153	59.3332
666	138.924	198.257	59.3332
667	139.302	198.635	59.3332
668	139.963	199.296	59.3332
669	140.621	199.955	59.3332
670	141.278	200.611	59.3332
671	141.933	201.267	59.3332
672	142.587	201.92	59.3332
673	143.239	202.573	59.3332
674	143.891	203.224	59.3332
675	144.542	203.876	59.3332
676	145.195	204.529	59.3332
677	145.85	205.183	59.3332
678	146.505	205.838	59.3332
679	147.162	206.495	59.3332
680	147.819	207.152	59.3332
681	148.478	207.811	59.3332
682	149.137	208.47	59.3332
683	149.797	209.13	59.3332
684	150.457	209.79	59.3332
685	150.276	209.79	59.5147
686	149.271	209.79	60.5197
687	148.314	209.79	61.4766
688	147.418	209.79	62.372
689	146.586	209.79	63.2042
690	145.817	209.79	63.9736
691	145.11	209.79	64.6803
692	144.467	209.79	65.3235
693	143.887	209.79	65.9035
694	143.371	209.79	66.4197
695	142.92	209.79	66.8707
696	142.533	209.79	67.2572
697	142.209	209.79	67.5819
698	141.946	209.79	67.8441
699	141.747	209.79	68.043
700	141.622	209.79	68.1688
701	141.585	209.79	68.2053
702	141.595	209.8	68.2053
703	141.599	209.805	68.2053
704	141.599	209.805	68.2053
705	141.599	209.805	68.2053
706	141.599	209.805	68.2053
707	141.599	209.805	68.2053
708	141.599	209.805	68.2053
709	141.599	209.805	68.2053
710	141.599	209.805	68.2053

655	102.391	226.454	424.008
656	102.391	226.454	424.008
657	102.391	226.454	424.008
658	102.391	226.454	424.008
659	102.023	224.524	422.78
660	100.56	217.78	418.643
661	98.9547	211.302	414.842
662	94.0082	190.489	403.902
663	92.3174	183.122	399.884
664	90.7949	176.358	396.079
665	89.4431	170.206	392.491
666	88.1985	165.019	387.878
667	176.065	486.565	763.928
668	164.755	480.084	753.612
669	153.528	473.65	743.371
670	148.399	468	739.24
671	148.572	463.049	740.419
672	148.74	458.223	741.568
673	148.904	453.521	742.687
674	149.777	450.508	745.487
675	152.184	450.982	751.95
676	154.545	451.447	758.292
677	156.861	451.903	764.514
678	159.134	452.35	770.619
679	159.292	452.823	771.765
680	158.396	453.305	770.433
681	157.515	453.78	769.124
682	156.648	454.246	767.837
683	155.796	454.704	766.571
684	155.112	454.783	765.121
685	553.891	614.586	1028.44
686	558.559	593.591	994.706
687	560.909	563.416	921.071
688	566.389	546.829	883.473
689	573.774	530.054	856.676
690	579.342	515.264	849.52
691	580.921	504.699	851.386
692	576.94	500.329	835.806
693	566.929	499.728	807.392
694	556.183	504.99	842.237
695	542.483	507.902	882.919
696	522.085	505.511	896.037
697	488.511	500.232	868.408
698	441.716	497.532	853.222
699	382.135	494.705	826.81
700	256.715	416.445	682.501
701	91.1906	272.452	437.133
702	96.1421	271.017	409.515
703	0	0	0
704	0	0	0
705	0	0	0
706	0	0	0
707	0	0	0
708	0	0	0
709	0	0	0
710	0	0	0

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010917

711	141.599	209.805	68.2053
712	141.599	209.805	68.2053
713	141.599	209.805	68.2053
714	141.599	209.805	68.2053
715	141.599	209.805	68.2053
716	141.599	209.805	68.2053
717	141.599	209.805	68.2053
718	141.599	209.805	68.2053
719	141.599	209.805	68.2053
720	141.621	209.826	68.2053
721	141.681	209.887	68.2053
722	141.779	209.984	68.2053
723	141.917	210.122	68.2053
724	142.098	210.303	68.2053
725	142.322	210.528	68.2053
726	142.59	210.796	68.2053
727	142.902	211.108	68.2053
728	143.259	211.464	68.2053
729	143.661	211.866	68.2053
730	144.108	212.313	68.2053
731	144.601	212.806	68.2053
732	145.138	213.343	68.2053
733	145.719	213.924	68.2053
734	146.342	214.548	68.2053
735	147.006	215.211	68.2053
736	147.702	215.907	68.2053
737	148.405	216.611	68.2053
738	149.095	217.3	68.2053
739	149.776	217.981	68.2053
740	150.451	218.656	68.2053
741	151.123	219.328	68.2053
742	151.791	219.996	68.2053
743	152.458	220.663	68.2053
744	153.124	221.329	68.2053
745	153.789	221.994	68.2053
746	154.356	222.561	68.2053
747	154.649	222.854	68.2053
748	154.765	222.97	68.2053
749	154.881	223.086	68.2053
750	154.997	223.202	68.2053
751	155.096	223.302	68.2053
752	155.171	223.376	68.2053
753	155.224	223.429	68.2053
754	155.245	223.45	68.2053
755	155.256	223.462	68.2053
756	155.597	223.802	68.2053
757	156.257	224.462	68.2053
758	156.915	225.12	68.2053
759	157.571	225.776	68.2053
760	158.225	226.43	68.2053
761	158.877	227.082	68.2053
762	159.528	227.733	68.2053
763	160.181	228.386	68.2053
764	160.836	229.041	68.2053
765	161.492	229.697	68.2053
766	162.149	230.354	68.2053

711	0	0	0
712	0	0	0
713	0	0	0
714	0	0	0
715	0	0	0
716	0	0	0
717	0	0	0
718	0	0	0
719	0	0	0
720	212.143	548.941	804.24
721	233.304	549.693	826.995
722	235.041	550.533	856.509
723	253.362	551.75	881
724	274.471	553.126	901.149
725	292.6	554.453	916.676
726	305.748	555.716	925.288
727	317.09	556.94	931.938
728	319.826	557.981	929.222
729	322.561	559.021	926.508
730	318.419	561.681	947.122
731	313.883	564.434	969.071
732	308.957	569.404	967.424
733	303.878	575.26	956.32
734	301.157	585.121	954.552
735	301.462	600.092	964.007
736	297.903	606.568	965.079
737	281.183	583.883	937.452
738	266.671	564.194	913.474
739	255.581	549.856	891.9
740	246.444	538.544	871.827
741	237.794	527.835	852.822
742	228.442	518.738	834.927
743	217.512	511.827	817.989
744	206.497	504.861	800.919
745	195.861	498.136	784.437
746	140.698	358.477	587.7
747	89.5898	170.874	392.881
748	89.5898	170.874	392.881
749	89.5898	170.874	392.881
750	89.5898	170.874	392.881
751	87.4204	161.84	384.817
752	86.878	158.807	382.892
753	70.0105	126.356	308.931
754	4.51794	8.15405	19.9361
755	36.2206	65.3715	159.829
756	174.738	485.804	762.718
757	161.282	478.094	750.444
758	148.313	470.444	738.659
759	148.532	464.191	740.147
760	148.751	457.907	741.643
761	148.971	451.611	743.141
762	151.602	450.868	750.389
763	154.714	451.48	758.747
764	157.681	452.064	766.714
765	159.645	452.633	772.289
766	158.549	453.223	770.661

767	162.807	231.012	68.2053
768	163.466	231.672	68.2053
769	164.126	232.332	68.2053
770	164.787	232.992	68.2053
771	165.447	233.652	68.2053
772	166.107	234.312	68.2053
773	166.766	234.971	68.2053
774	167.424	235.63	68.2053
775	168.082	236.287	68.2053
776	168.738	236.943	68.2053
777	169.392	237.598	68.2053
778	170.045	238.25	68.2053
779	170.696	238.901	68.2053
780	171.049	239.255	68.2053
781	171.105	239.31	68.2053
782	171.161	239.366	68.2053
783	171.218	239.423	68.2053
784	171.276	239.481	68.2053
785	171.333	239.538	68.2053
786	171.389	239.594	68.2053
787	171.445	239.65	68.2053
788	171.503	239.708	68.2053
789	171.019	239.708	68.6896
790	169.987	239.708	69.7218
791	168.95	239.708	70.7588
792	167.917	239.708	71.7914
793	166.906	239.708	72.8022
794	165.941	239.708	73.7674
795	165.037	239.708	74.6719
796	164.195	239.708	75.5134
797	163.417	239.708	76.2917
798	162.701	239.708	77.0073
799	162.049	239.708	77.6595
800	161.46	239.708	78.2484
801	160.935	239.708	78.7737
802	160.475	239.708	79.2339
803	160.079	239.708	79.6292
804	159.746	239.708	79.9624
805	159.475	239.708	80.2335
806	159.267	239.708	80.4413
807	159.129	239.708	80.5795
808	159.085	239.708	80.6239
809	159.095	239.718	80.6239
810	159.099	239.723	80.6239
811	159.099	239.723	80.6239
812	159.099	239.723	80.6239
813	159.099	239.723	80.6239
814	159.099	239.723	80.6239
815	159.099	239.723	80.6239
816	159.099	239.723	80.6239
817	159.099	239.723	80.6239
818	159.099	239.723	80.6239
819	159.099	239.723	80.6239
820	159.099	239.723	80.6239
821	159.099	239.723	80.6239
822	159.099	239.723	80.6239

767	157.509	453.782	769.116
768	156.525	454.312	767.654
769	155.588	454.816	766.262
770	154.912	454.719	764.566
771	154.292	454.519	762.841
772	153.682	454.322	761.145
773	153.082	454.129	759.478
774	152.493	453.939	757.84
775	151.872	453.136	755.462
776	151.253	452.225	752.974
777	150.646	451.33	750.529
778	150.048	450.45	748.125
779	149.461	449.585	745.762
780	95.3456	128.843	376.911
781	95.3456	128.843	376.911
782	95.3456	128.843	376.911
783	95.3685	129.223	376.99
784	95.3686	129.224	376.99
785	95.3456	128.843	376.911
786	95.3504	128.922	376.928
787	95.3478	128.878	376.919
788	95.3944	129.653	377.078
789	550.46	624.175	1019.95
790	549.713	625.797	1027.81
791	550.018	624.997	1033.64
792	553.121	616.676	1030.14
793	558.267	597.856	1005.14
794	560.391	566.841	929.275
795	565.614	549.174	888.791
796	572.664	532.431	860.088
797	578.821	517.09	848.319
798	581.525	505.434	854.448
799	577.583	500.897	838.178
800	568.342	499.791	811.193
801	557.736	503.974	834.372
802	544.818	508.121	879.371
803	526.83	506.257	899.942
804	493.256	500.978	872.313
805	448.398	497.901	855.304
806	391.293	495.118	831.243
807	285.372	441.093	723.264
808	90.0567	272.78	443.458
809	95.4608	271.215	413.315
810	0	0	0
811	0	0	0
812	0	0	0
813	0	0	0
814	0	0	0
815	0	0	0
816	0	0	0
817	0	0	0
818	0	0	0
819	0	0	0
820	0	0	0
821	0	0	0
822	0	0	0

010919

823	159.099	239.723	80.6239
824	159.099	239.723	80.6239
825	159.099	239.723	80.6239
826	159.099	239.723	80.6239
827	159.118	239.742	80.6239
828	159.173	239.797	80.6239
829	159.265	239.889	80.6239
830	159.397	240.021	80.6239
831	159.572	240.196	80.6239
832	159.791	240.415	80.6239
833	160.052	240.676	80.6239
834	160.358	240.982	80.6239
835	160.708	241.332	80.6239
836	161.103	241.727	80.6239
837	161.544	242.168	80.6239
838	162.03	242.654	80.6239
839	162.561	243.185	80.6239
840	163.136	243.76	80.6239
841	163.754	244.378	80.6239
842	164.411	245.035	80.6239
843	165.106	245.73	80.6239
844	165.811	246.435	80.6239
845	166.503	247.127	80.6239
846	167.183	247.807	80.6239
847	167.858	248.482	80.6239
848	168.529	249.153	80.6239
849	169.197	249.821	80.6239
850	169.863	250.487	80.6239
851	170.529	251.153	80.6239
852	171.193	251.817	80.6239
853	171.855	252.479	80.6239
854	172.515	253.138	80.6239
855	173.172	253.796	80.6239
856	173.828	254.452	80.6239
857	174.483	255.107	80.6239
858	175.136	255.759	80.6239
859	175.787	256.411	80.6239
860	176.438	257.062	80.6239
861	177.091	257.715	80.6239
862	177.746	258.369	80.6239
863	178.401	259.025	80.6239
864	179.058	259.682	80.6239
865	179.716	260.339	80.6239
866	180.374	260.998	80.6239
867	181.034	261.658	80.6239
868	181.694	262.318	80.6239
869	182.355	262.978	80.6239
870	183.014	263.638	80.6239
871	183.674	264.298	80.6239
872	184.333	264.957	80.6239
873	184.991	265.615	80.6239
874	185.648	266.272	80.6239
875	186.304	266.928	80.6239
876	186.957	267.581	80.6239
877	187.61	268.234	80.6239
878	188.26	268.884	80.6239

823	0	0	0
824	0	0	0
825	0	0	0
826	0	0	0
827	210.569	548.831	800.644
828	232.656	549.582	823.152
829	233.091	550.397	852.058
830	250.377	551.555	878.151
831	271.611	552.929	898.276
832	290.741	554.274	915.458
833	303.703	555.545	924.16
834	316.703	556.793	932.322
835	319.44	557.834	929.606
836	322.175	558.874	926.891
837	319.072	561.294	944.053
838	314.524	564.045	965.97
839	309.675	568.576	968.994
840	304.595	574.433	957.888
841	301.114	582.994	953.209
842	301.419	597.985	962.676
843	300.35	609.888	969.122
844	283.384	586.869	941.089
845	267.587	565.437	914.988
846	255.235	549.428	891.14
847	245.037	536.802	868.734
848	235.264	524.702	847.262
849	223.223	515.437	826.839
850	210.493	507.389	807.113
851	198.133	499.573	787.958
852	185.657	492.062	772.678
853	173.014	484.816	761.145
854	160.669	477.742	749.885
855	148.677	470.871	738.947
856	148.489	465.417	739.855
857	148.673	460.141	741.111
858	148.853	454.999	742.335
859	149.213	450.397	743.972
860	151.84	450.914	751.028
861	154.418	451.422	757.951
862	156.947	451.92	764.743
863	159.428	452.408	771.407
864	159.089	452.933	771.463
865	158.11	453.459	770.009
866	157.147	453.977	768.579
867	156.201	454.486	767.173
868	155.326	454.852	765.717
869	154.699	454.65	763.972
870	154.082	454.451	762.257
871	153.475	454.256	760.571
872	152.879	454.064	758.914
873	152.284	453.744	757.122
874	151.659	452.823	754.606
875	151.044	451.917	752.133
876	150.44	451.027	749.702
877	149.846	450.152	747.312
878	149.262	449.293	744.963

010920

879	188.613	269.237	80.6239
880	188.669	269.293	80.6239
881	188.725	269.349	80.6239
882	188.781	269.405	80.6239
883	188.837	269.461	80.6239
884	188.893	269.517	80.6239
885	188.951	269.575	80.6239
886	188.55	269.575	81.0255
887	187.6	269.575	81.9748
888	186.564	269.575	83.011
889	185.529	269.575	84.046
890	184.51	269.575	85.0648
891	183.534	269.575	86.0415
892	182.617	269.575	86.9581
893	181.763	269.575	87.8123
894	180.972	269.575	88.6033
895	180.244	269.575	89.3316
896	179.578	269.575	89.9967
897	178.977	269.575	90.5984
898	178.438	269.575	91.1366
899	177.965	269.575	91.61
900	177.557	269.575	92.0182
901	177.211	269.575	92.3638
902	176.928	269.575	92.6475
903	176.707	269.575	92.868
904	176.551	269.575	93.0239
905	176.486	269.575	93.0895
906	176.486	269.576	93.0895
907	176.495	269.584	93.0895
908	176.499	269.588	93.0895
909	176.499	269.588	93.0895
910	176.499	269.588	93.0895
911	176.499	269.588	93.0895
912	176.499	269.588	93.0895
913	176.499	269.588	93.0895
914	176.499	269.588	93.0895
915	176.499	269.588	93.0895
916	176.499	269.588	93.0895
917	176.499	269.588	93.0895
918	176.499	269.588	93.0895
919	176.499	269.588	93.0895
920	176.499	269.588	93.0895
921	176.499	269.588	93.0895
922	176.499	269.588	93.0895
923	176.499	269.588	93.0895
924	176.499	269.588	93.0895
925	176.532	269.621	93.0895
926	176.616	269.706	93.0895
927	176.74	269.829	93.0895
928	176.906	269.996	93.0895
929	177.116	270.205	93.0895
930	177.368	270.458	93.0895
931	177.665	270.754	93.0895
932	178.006	271.096	93.0895
933	178.392	271.482	93.0895
934	178.824	271.913	93.0895

879	95.3456	128.843	376.911
880	95.3456	128.843	376.911
881	95.3456	128.843	376.911
882	95.3456	128.843	376.911
883	95.3456	128.843	376.911
884	95.3456	128.843	376.911
885	95.4068	129.859	377.121
886	563.162	516.725	865.4
887	549.875	625.445	1026.1
888	549.884	625.323	1032.76
889	552.005	619.707	1032.6
890	557.851	603.833	1019.72
891	559.972	572.956	944.232
892	564.503	552.457	895.981
893	571.078	535.83	864.965
894	578.077	519.702	846.601
895	581.76	506.777	855.102
896	578.368	501.791	841.286
897	570.367	499.934	817.15
898	559.956	502.521	823.128
899	548.157	508.432	874.299
900	531.634	506.89	899.401
901	500.04	502.045	877.896
902	457.952	498.427	858.28
903	404.388	495.708	837.583
904	326.346	476.333	781.546
905	123.586	301.943	493.133
906	94.4868	271.497	418.748
907	99.307	270.1	391.862
908	0	0	0
909	0	0	0
910	0	0	0
911	0	0	0
912	0	0	0
913	0	0	0
914	0	0	0
915	0	0	0
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917	0	0	0
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919	0	0	0
920	0	0	0
921	0	0	0
922	0	0	0
923	0	0	0
924	0	0	0
925	231.729	549.422	817.657
926	230.604	550.224	846.38
927	246.133	551.277	874.073
928	267.33	552.651	894.209
929	287.899	554.023	913.758
930	301.048	555.289	922.412
931	314.376	556.545	930.94
932	318.768	557.63	930.239
933	321.588	558.666	927.475
934	319.978	560.736	939.581

935	179.301	272.39	93.0895
936	179.823	272.912	93.0895
937	180.389	273.478	93.0895
938	180.997	274.087	93.0895
939	181.646	274.735	93.0895
940	182.331	275.421	93.0895
941	183.035	276.124	93.0895
942	183.732	276.822	93.0895
943	184.419	277.509	93.0895
944	185.098	278.188	93.0895
945	185.774	278.864	93.0895
946	186.447	279.537	93.0895
947	187.118	280.207	93.0895
948	187.786	280.876	93.0895
949	188.453	281.543	93.0895
950	189.12	282.21	93.0895
951	189.786	282.876	93.0895
952	190.452	283.542	93.0895
953	191.117	284.207	93.0895
954	191.782	284.872	93.0895
955	192.446	285.536	93.0895
956	193.11	286.199	93.0895
957	193.639	286.729	93.0895
958	194.036	287.125	93.0895
959	194.432	287.521	93.0895
960	194.828	287.917	93.0895
961	195.224	288.314	93.0895
962	195.62	288.71	93.0895
963	196.016	289.106	93.0895
964	196.404	289.494	93.0895
965	196.777	289.867	93.0895
966	197.126	290.216	93.0895
967	197.439	290.528	93.0895
968	197.717	290.806	93.0895
969	197.977	291.066	93.0895
970	198.222	291.312	93.0895
971	198.441	291.53	93.0895
972	198.632	291.722	93.0895
973	198.798	291.887	93.0895
974	198.922	292.012	93.0895
975	199.008	292.098	93.0895
976	199.083	292.173	93.0895
977	199.158	292.247	93.0895
978	199.233	292.322	93.0895
979	199.308	292.397	93.0895
980	199.382	292.472	93.0895
981	199.457	292.547	93.0895
982	199.532	292.622	93.0895
983	199.607	292.697	93.0895
984	199.682	292.771	93.0895
985	199.757	292.846	93.0895
986	199.815	292.904	93.0895
987	199.851	292.941	93.0895
988	199.879	292.968	93.0895
989	199.898	292.987	93.0895
990	199.908	292.997	93.0895

935	315.44	563.489	961.536
936	310.702	567.392	971.239
937	305.642	573.225	960.178
938	301.045	579.587	951.057
939	301.339	594.048	960.19
940	301.624	608.097	969.063
941	290.06	595.928	952.12
942	275.989	576.836	928.87
943	264.009	560.581	909.075
944	255.584	549.86	891.907
945	248.569	541.174	876.493
946	242.25	533.351	862.611
947	236.604	526.362	850.207
948	231.054	520.389	838.974
949	224.305	516.122	828.515
950	218.181	512.25	819.026
951	212.312	508.539	809.931
952	206.646	504.956	801.151
953	201.178	501.498	792.676
954	195.899	498.161	784.496
955	190.708	494.956	777.285
956	185.385	491.905	772.429
957	124.231	311.505	522.206
958	124.231	311.505	522.206
959	124.231	311.505	522.206
960	124.231	311.505	522.206
961	124.231	311.505	522.206
962	124.231	311.505	522.206
963	124.231	311.505	522.206
964	121.317	301.149	507.665
965	119.242	293.777	497.314
966	113.262	271.929	466.463
967	107.985	251.747	442.019
968	103.69	233.252	428.333
969	103.462	232.06	427.574
970	100.699	218.342	418.972
971	97.5045	205.445	411.411
972	94.7794	193.805	405.609
973	92.3543	183.283	399.972
974	88.3052	165.455	388.298
975	87.0797	160.157	383.551
976	87.0797	160.157	383.551
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978	87.0797	160.157	383.551
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983	87.0797	160.157	383.551
984	87.0797	160.157	383.551
985	87.0797	160.157	383.551
986	72.6119	131.051	320.411
987	56.9747	102.829	251.409
988	41.3375	74.6066	182.408
989	25.7003	46.3843	113.406
990	10.0631	18.162	44.4048

010922

991	200.242	293.331	93.0895
992	200.902	293.992	93.0895
993	201.561	294.65	93.0895
994	202.218	295.307	93.0895
995	202.873	295.962	93.0895
996	203.526	296.616	93.0895
997	204.178	297.268	93.0895
998	204.829	297.919	93.0895
999	205.482	298.571	93.0895
1000	206.135	299.224	93.0895
1001	206.79	299.879	93.0895
1002	207.445	300.535	93.0895
1003	208.102	301.192	93.0895
1004	208.76	301.85	93.0895
1005	209.419	302.508	93.0895
1006	209.247	302.508	93.2611
1007	208.275	302.508	94.2336
1008	207.363	302.508	95.1455
1009	206.513	302.508	95.9947
1010	205.728	302.508	96.7806
1011	205.004	302.508	97.5038
1012	204.344	302.508	98.1639
1013	203.748	302.508	98.7605
1014	203.215	302.508	99.2935
1015	202.746	302.508	99.7617
1016	202.343	302.508	100.165
1017	202.003	302.508	100.505
1018	201.724	302.508	100.784
1019	201.509	302.508	100.999
1020	201.36	302.508	101.148
1021	201.304	302.508	101.204
1022	201.309	302.513	101.204
1023	201.317	302.522	101.204
1024	201.321	302.526	101.204
1025	201.321	302.526	101.204
1026	201.321	302.526	101.204
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1040	201.321	302.526	101.204
1041	201.356	302.56	101.204
1042	201.443	302.647	101.204
1043	201.57	302.774	101.204
1044	201.74	302.944	101.204
1045	201.953	303.157	101.204
1046	202.209	303.414	101.204

991	178.002	487.675	765.695
992	165.49	480.505	754.282
993	153.368	473.559	743.226
994	148.413	467.583	739.34
995	148.596	462.341	740.588
996	148.773	457.275	741.793
997	148.944	452.384	742.957
998	150.462	450.643	747.326
999	152.92	451.127	753.927
1000	155.304	451.596	760.33
1001	157.591	452.046	766.475
1002	159.823	452.486	772.469
1003	159.027	452.966	771.371
1004	158.137	453.445	770.048
1005	157.262	453.915	768.749
1006	557.998	601.775	1014.72
1007	560.13	570.645	938.579
1008	564.934	551.145	892.979
1009	571.71	534.474	863.02
1010	578.374	518.66	847.286
1011	581.943	505.862	855.428
1012	578.082	501.495	840.43
1013	569.56	499.886	814.859
1014	559.06	503.056	827.277
1015	546.826	508.308	876.322
1016	530.302	506.765	901.424
1017	497.334	501.62	875.669
1018	454.141	498.217	857.093
1019	399.165	495.473	835.054
1020	310.003	462.277	758.299
1021	107.245	287.889	469.89
1022	94.8753	271.384	416.581
1023	99.6955	269.988	389.695
1024	0	0	0
1025	0	0	0
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1027	0	0	0
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1029	0	0	0
1030	0	0	0
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1035	0	0	0
1036	0	0	0
1037	0	0	0
1038	0	0	0
1039	0	0	0
1040	0	0	0
1041	220.358	549.512	822.992
1042	231.502	550.287	848.43
1043	247.842	551.388	875.696
1044	269.037	552.762	895.832
1045	288.959	554.125	914.456
1046	302.294	555.384	923.025

1047	202.509	303.714	101.204
1048	202.854	304.059	101.204
1049	203.244	304.449	101.204
1050	203.679	304.884	101.204
1051	204.16	305.364	101.204
1052	204.685	305.89	101.204
1053	205.255	306.46	101.204
1054	205.867	307.072	101.204
1055	206.52	307.725	101.204
1056	207.212	308.417	101.204
1057	207.918	309.123	101.204
1058	208.611	309.816	101.204
1059	209.293	310.498	101.204
1060	209.969	311.173	101.204
1061	210.64	311.845	101.204
1062	211.309	312.513	101.204
1063	211.975	313.18	101.204
1064	212.641	313.845	101.204
1065	213.306	314.51	101.204
1066	213.97	315.174	101.204
1067	214.632	315.837	101.204
1068	215.293	316.498	101.204
1069	215.953	317.157	101.204
1070	216.611	317.816	101.204
1071	217.268	318.473	101.204
1072	217.924	319.128	101.204
1073	218.578	319.783	101.204
1074	219.232	320.436	101.204
1075	219.884	321.088	101.204
1076	220.535	321.739	101.204
1077	221.114	322.319	101.204
1078	221.35	322.555	101.204
1079	221.316	322.555	101.239
1080	221.281	322.555	101.274
1081	221.247	322.555	101.308
1082	221.218	322.555	101.337
1083	221.197	322.555	101.358
1084	221.18	322.555	101.375
1085	221.165	322.555	101.39
1086	221.154	322.555	101.401
1087	221.15	322.555	101.405
1088	221.349	322.754	101.405
1089	221.875	323.281	101.405
1090	222.531	323.936	101.405
1091	223.187	324.592	101.405
1092	223.845	325.25	101.405
1093	224.503	325.908	101.405
1094	225.162	326.568	101.405
1095	225.823	327.228	101.405
1096	226.483	327.889	101.405
1097	227.143	328.549	101.405
1098	227.803	329.208	101.405
1099	227.613	329.208	101.595
1100	226.577	329.208	102.631
1101	225.997	329.208	103.211
1102	225.946	329.208	103.262

1047	315.435	556.647	931.633
1048	319.107	557.708	929.935
1049	321.816	558.749	927.252
1050	319.612	560.958	941.351
1051	315.098	563.714	963.36
1052	310.292	567.864	970.343
1053	305.212	573.722	959.237
1054	301.077	581.164	952.053
1055	301.382	596.171	961.531
1056	301.684	611.041	970.922
1057	285.455	589.68	944.511
1058	269.635	568.215	918.371
1059	256.76	551.316	894.491
1060	246.671	538.824	872.323
1061	237.068	526.936	851.226
1062	226.337	517.407	831.665
1063	214.643	510.013	813.543
1064	204.427	503.553	797.712
1065	195.012	497.6	783.122
1066	185.923	492.214	772.92
1067	177.379	487.318	765.127
1068	169.59	482.855	758.023
1069	161.687	478.326	750.814
1070	153.723	473.762	743.549
1071	148.349	469.434	738.899
1072	148.486	465.487	739.839
1073	148.633	461.276	740.841
1074	148.79	456.803	741.906
1075	148.955	452.066	743.033
1076	150.783	450.706	748.188
1077	134.115	357.126	618.437
1078	193.599	181.816	496.244
1079	193.599	181.816	496.244
1080	193.599	181.816	496.244
1081	189.494	179.349	489.763
1082	143.174	135.508	370.044
1083	96.8537	91.6681	250.326
1084	98.6695	93.3867	255.019
1085	76.8364	72.7225	198.59
1086	50.5518	47.8452	130.655
1087	1.49643	2.053	5.60004
1088	124.272	292.338	523.625
1089	156.558	451.843	763.699
1090	158.953	452.315	770.133
1091	159.306	452.816	771.785
1092	158.341	453.335	770.353
1093	157.384	453.85	768.93
1094	156.439	454.358	767.526
1095	155.507	454.859	766.142
1096	154.858	454.702	764.416
1097	154.239	454.502	762.693
1098	153.63	454.305	761
1099	549.849	625.407	1032.54
1100	551.569	620.891	1033.56
1101	312.579	194.187	544.137
1102	56.3992	75.2205	222.448

010924

1103	225.972	329.234	103.262
1104	225.998	329.26	103.262
1105	226.05	329.312	103.262
1106	226.132	329.394	103.262
1107	226.22	329.481	103.262
1108	226.313	329.574	103.262
1109	226.4	329.661	103.262
1110	226.478	329.74	103.262
1111	226.557	329.819	103.262
1112	226.634	329.896	103.262
1113	226.166	329.896	103.73
1114	225.182	329.896	104.714
1115	224.256	329.896	105.64
1116	223.392	329.896	106.504
1117	222.591	329.896	107.305
1118	221.854	329.896	108.042
1119	221.181	329.896	108.715
1120	220.571	329.896	109.325
1121	220.025	329.896	109.871
1122	219.543	329.896	110.353
1123	219.127	329.896	110.769
1124	218.774	329.896	111.122
1125	218.482	329.896	111.414
1126	218.254	329.896	111.642
1127	218.088	329.896	111.808
1128	218.01	329.896	111.886
1129	218.003	329.896	111.893
1130	218.012	329.905	111.893
1131	218.016	329.909	111.893
1132	218.016	329.909	111.893
1133	218.016	329.909	111.893
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1144	218.016	329.909	111.893
1145	218.016	329.909	111.893
1146	218.016	329.909	111.893
1147	218.016	329.909	111.893
1148	218.047	329.94	111.893
1149	218.127	330.02	111.893
1150	218.246	330.139	111.893
1151	218.407	330.3	111.893
1152	218.612	330.504	111.893
1153	218.859	330.752	111.893
1154	219.151	331.043	111.893
1155	219.487	331.379	111.893
1156	219.867	331.76	111.893
1157	220.294	332.186	111.893
1158	220.765	332.658	111.893

1103	56.3992	75.2205	222.448
1104	56.3992	75.2205	222.448
1105	113.403	155.232	447.175
1106	113.46	156.262	447.372
1107	113.541	157.547	447.643
1108	113.621	158.832	447.914
1109	113.395	155.08	447.149
1110	113.395	155.08	447.149
1111	113.413	155.435	447.211
1112	113.363	154.443	447.039
1113	556.928	606.338	1021.75
1114	559.607	578.292	957.285
1115	563.628	555.126	902.09
1116	569.906	538.338	868.566
1117	577.565	521.502	845.417
1118	581.26	508.529	853.949
1119	578.88	502.374	843.309
1120	571.639	500.011	820.76
1121	561.303	501.585	815.881
1122	550.156	508.589	871.058
1123	533.622	507.075	896.382
1124	504.073	502.679	881.215
1125	463.633	498.765	860.251
1126	412.173	496.059	841.351
1127	347.369	493.137	809.979
1128	147.94	322.89	527.776
1129	93.9078	271.665	421.978
1130	98.728	270.268	395.092
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1144	0	0	0
1145	0	0	0
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1147	0	0	0
1148	231.178	549.328	814.391
1149	229.265	550.131	843.324
1150	243.586	551.112	871.653
1151	264.688	552.488	891.811
1152	285.79	553.863	911.954
1153	299.655	555.131	921.297
1154	312.798	556.394	929.906
1155	318.558	557.499	930.48
1156	321.294	558.539	927.766
1157	320.523	560.405	936.942
1158	315.985	563.158	958.899

010925

1159	221.282	333.174	111.893
1160	221.843	333.735	111.893
1161	222.447	334.339	111.893
1162	223.091	334.984	111.893
1163	223.775	335.667	111.893
1164	224.478	336.37	111.893
1165	225.174	337.067	111.893
1166	225.858	337.751	111.893
1167	226.535	338.428	111.893
1168	227.208	339.101	111.893
1169	227.877	339.77	111.893
1170	228.545	340.437	111.893
1171	229.211	341.103	111.893
1172	229.876	341.768	111.893
1173	230.54	342.432	111.893
1174	231.202	343.095	111.893
1175	231.863	343.756	111.893
1176	232.522	344.414	111.893
1177	233.179	345.071	111.893
1178	233.835	345.727	111.893
1179	234.489	346.381	111.893
1180	235.142	347.034	111.893
1181	235.793	347.685	111.893
1182	236.444	348.337	111.893
1183	237.097	348.989	111.893
1184	237.751	349.643	111.893
1185	238.406	350.299	111.893
1186	239.062	350.955	111.893
1187	239.72	351.612	111.893
1188	240.378	352.271	111.893
1189	241.037	352.93	111.893
1190	241.697	353.59	111.893
1191	242.358	354.25	111.893
1192	243.018	354.91	111.893
1193	243.677	355.57	111.893
1194	244.336	356.229	111.893
1195	244.994	356.887	111.893
1196	245.65	357.543	111.893
1197	246.304	358.196	111.893
1198	246.825	358.718	111.893
1199	246.883	358.776	111.893
1200	246.608	358.776	112.168
1201	246.332	358.776	112.444
1202	246.056	358.776	112.719
1203	245.781	358.776	112.995
1204	245.505	358.776	113.271
1205	245.229	358.776	113.546
1206	244.954	358.776	113.822
1207	244.678	358.776	114.098
1208	244.403	358.776	114.373
1209	244.127	358.776	114.649
1210	243.851	358.776	114.924
1211	243.576	358.776	115.2
1212	243.3	358.776	115.476
1213	243.023	358.776	115.753
1214	242.746	358.776	116.03

1159	311.314	566.686	972.576
1160	306.243	572.533	961.49
1161	301.014	578.034	950.077
1162	301.317	592.964	959.506
1163	301.616	607.715	968.822
1164	289.395	595.025	951.021
1165	273.566	573.549	924.867
1166	259.701	554.956	900.951
1167	249.929	542.859	879.483
1168	240.659	531.382	859.116
1169	231.609	520.74	839.834
1170	219.942	513.363	821.754
1171	208.797	506.316	804.484
1172	198.038	499.513	787.811
1173	187.261	492.98	774.14
1174	176.327	486.715	764.168
1175	165.771	480.666	754.539
1176	155.398	474.722	745.077
1177	148.356	469.216	738.951
1178	148.519	464.549	740.062
1179	148.684	459.842	741.182
1180	148.848	455.128	742.304
1181	149.012	450.442	743.42
1182	151.458	450.839	750.001
1183	153.9	451.32	756.56
1184	156.296	451.791	762.995
1185	158.647	452.254	769.31
1186	159.448	452.739	771.997
1187	158.489	453.255	770.572
1188	157.54	453.766	769.162
1189	156.601	454.271	767.767
1190	155.672	454.77	766.388
1191	154.958	454.734	764.692
1192	154.276	454.514	762.798
1193	153.559	454.283	760.804
1194	152.805	454.04	758.709
1195	151.983	453.299	755.908
1196	151.085	451.977	752.297
1197	150.148	450.597	748.525
1198	112.551	278.029	496.711
1199	418.799	213.387	474.057
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1201	418.799	213.387	474.057
1202	418.799	213.387	474.057
1203	418.799	213.387	474.057
1204	418.799	213.387	474.057
1205	418.799	213.387	474.057
1206	418.799	213.387	474.057
1207	418.799	213.387	474.057
1208	418.799	213.387	474.057
1209	418.799	213.387	474.057
1210	418.799	213.387	474.057
1211	418.799	213.387	474.057
1212	419.437	213.803	474.215
1213	419.562	213.884	474.246
1214	419.558	213.882	474.245

010926

1215	242.469	358.776	116.307
1216	242.195	358.776	116.581
1217	241.926	358.776	116.85
1218	241.657	358.776	117.119
1219	241.384	358.776	117.392
1220	241.107	358.776	117.669
1221	240.829	358.776	117.947
1222	240.553	358.776	118.223
1223	240.283	358.776	118.492
1224	240.022	358.776	118.754
1225	239.768	358.776	119.008
1226	239.522	358.776	119.254
1227	239.283	358.776	119.493
1228	239.05	358.776	119.725
1229	238.819	358.776	119.956
1230	238.588	358.776	120.188
1231	238.357	358.776	120.419
1232	238.126	358.776	120.65
1233	237.895	358.776	120.881
1234	237.664	358.776	121.112
1235	237.433	358.776	121.343
1236	237.202	358.776	121.574
1237	236.97	358.776	121.805
1238	236.739	358.776	122.036
1239	236.508	358.776	122.268
1240	236.277	358.776	122.499
1241	236.046	358.776	122.73
1242	235.815	358.776	122.961
1243	235.584	358.776	123.192
1244	234.954	358.776	123.822
1245	233.921	358.776	124.854
1246	232.884	358.776	125.891
1247	231.848	358.776	126.927
1248	230.826	358.776	127.949
1249	229.837	358.776	128.938
1250	228.896	358.776	129.879
1251	228.008	358.776	130.767
1252	227.174	358.776	131.601
1253	226.69	358.776	132.085
1254	226.53	358.776	132.245
1255	226.37	358.776	132.405
1256	226.21	358.776	132.565
1257	226.05	358.776	132.725
1258	225.916	358.776	132.86
1259	225.81	358.776	132.965
1260	225.709	358.776	133.066
1261	225.614	358.776	133.162
1262	225.524	358.776	133.252
1263	225.425	358.776	133.351
1264	225.316	358.776	133.46
1265	225.207	358.776	133.569
1266	225.098	358.776	133.678
1267	224.989	358.776	133.787
1268	224.879	358.776	133.896
1269	224.77	358.776	134.005
1270	224.661	358.776	134.115

1215	420.001	214.171	474.355
1216	414.92	210.858	473.097
1217	414.836	210.803	473.076
1218	414.941	210.872	473.102
1219	419.5	213.844	474.231
1220	420.097	214.233	474.379
1221	420.694	214.622	474.526
1222	417.339	212.435	473.696
1223	412.815	209.485	472.576
1224	408.242	206.504	471.444
1225	403.67	203.523	470.312
1226	398.373	200.815	469.345
1227	392.897	198.174	468.42
1228	390.51	197.023	468.016
1229	390.51	197.023	468.016
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1231	390.51	197.023	468.016
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1234	390.51	197.023	468.016
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1239	390.51	197.023	468.016
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1243	390.51	197.023	468.016
1244	550.427	624.247	1020.3
1245	549.7	625.825	1027.94
1246	549.934	625.2	1033.09
1247	551.651	620.668	1033.38
1248	556.712	606.926	1022.23
1249	559.271	583.189	969.262
1250	561.951	560.239	913.798
1251	566.628	545.98	881.153
1252	572.896	531.935	859.375
1253	333.973	218.464	492.684
1254	333.973	218.464	492.684
1255	333.973	218.464	492.684
1256	333.973	218.464	492.684
1257	333.973	218.464	492.684
1258	281.522	206.23	482.964
1259	276.083	205.079	482.016
1260	270.644	203.928	481.067
1261	264.782	202.861	480.139
1262	257.038	202.166	479.302
1263	282.241	206.382	483.089
1264	282.241	206.382	483.089
1265	282.241	206.382	483.089
1266	282.241	206.382	483.089
1267	282.241	206.382	483.089
1268	282.241	206.382	483.089
1269	282.241	206.382	483.089
1270	282.241	206.382	483.089

1617

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010927

1271	224.552	358.776	134.224
1272	224.443	358.776	134.333
1273	224.334	358.776	134.442
1274	224.225	358.776	134.551
1275	224.121	358.776	134.655
1276	224.034	358.776	134.742
1277	223.969	358.776	134.806
1278	223.926	358.776	134.85
1279	223.9	358.776	134.876
1280	223.888	358.776	134.888
1281	223.499	358.776	135.277
1282	222.753	358.776	136.022
1283	222.069	358.776	136.707
1284	221.448	358.776	137.328
1285	220.892	358.776	137.883
1286	220.402	358.776	138.373
1287	219.979	358.776	138.797
1288	219.619	358.776	139.156
1289	219.323	358.776	139.453
1290	219.089	358.776	139.686
1291	218.919	358.776	139.856
1292	218.835	358.776	139.94
1293	218.826	358.776	139.95
1294	218.835	358.785	139.95
1295	218.839	358.789	139.95
1296	218.839	358.789	139.95
1297	218.839	358.789	139.95
1298	218.839	358.789	139.95
1299	218.839	358.789	139.95
1300	218.839	358.789	139.95
1301	218.839	358.789	139.95
1302	218.839	358.789	139.95
1303	218.839	358.789	139.95
1304	218.839	358.789	139.95
1305	218.839	358.789	139.95
1306	218.839	358.789	139.95
1307	218.839	358.789	139.95
1308	218.839	358.789	139.95
1309	218.839	358.789	139.95
1310	218.839	358.789	139.95
1311	218.839	358.789	139.95
1312	218.869	358.819	139.95
1313	218.947	358.896	139.95
1314	219.063	359.012	139.95
1315	219.221	359.17	139.95
1316	219.421	359.371	139.95
1317	219.664	359.614	139.95
1318	219.951	359.9	139.95
1319	220.281	360.231	139.95
1320	220.656	360.606	139.95
1321	221.076	361.026	139.95
1322	221.542	361.491	139.95
1323	222.052	362.002	139.95
1324	222.607	362.557	139.95
1325	223.205	363.155	139.95
1326	223.845	363.795	139.95

1271	282.241	206.382	483.089
1272	282.241	206.382	483.089
1273	282.241	206.382	483.089
1274	282.241	206.382	483.089
1275	270.546	203.908	481.05
1276	239.149	200.56	477.369
1277	205.912	197.576	473.776
1278	163.573	176.698	426.146
1279	93.1695	100.646	242.729
1280	22.7664	24.5932	59.3119
1281	577.062	523.013	846.569
1282	580.621	510.773	852.473
1283	579.595	503.226	846.588
1284	573.264	500.108	825.373
1285	562.83	500.583	808.125
1286	551.632	507.968	865.283
1287	535.405	507.242	893.673
1288	507.282	503.184	883.856
1289	467.63	498.96	861.295
1290	417.02	496.278	843.697
1291	351.642	493.33	812.048
1292	159.657	332.968	544.443
1293	93.651	271.739	423.41
1294	98.479	270.34	396.481
1295	0	0	0
1296	0	0	0
1297	0	0	0
1298	0	0	0
1299	0	0	0
1300	0	0	0
1301	0	0	0
1302	0	0	0
1303	0	0	0
1304	0	0	0
1305	0	0	0
1306	0	0	0
1307	0	0	0
1308	0	0	0
1309	0	0	0
1310	0	0	0
1311	0	0	0
1312	217.483	549.312	816.428
1313	228.529	550.08	841.642
1314	241.978	551.007	870.126
1315	262.923	552.365	890.023
1316	283.873	553.724	909.925
1317	298.222	554.993	920.358
1318	311.252	556.245	928.893
1319	318.217	557.369	930.819
1320	320.882	558.406	928.168
1321	321.138	560.032	933.968
1322	316.607	562.781	955.889
1323	312.028	565.868	974.137
1324	306.928	571.743	962.988
1325	301.851	577.597	951.888
1326	301.279	591.116	958.338

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1327	224.524	364.474	139.95
1328	225.225	365.175	139.95
1329	225.923	365.873	139.95
1330	226.608	366.558	139.95
1331	227.285	367.235	139.95
1332	227.959	367.909	139.95
1333	228.629	368.579	139.95
1334	229.297	369.247	139.95
1335	229.963	369.913	139.95
1336	230.629	370.579	139.95
1337	231.294	371.244	139.95
1338	231.959	371.908	139.95
1339	232.622	372.572	139.95
1340	233.284	373.234	139.95
1341	233.946	373.896	139.95
1342	234.606	374.556	139.95
1343	235.266	375.215	139.95
1344	235.924	375.874	139.95
1345	236.582	376.532	139.95
1346	237.239	377.188	139.95
1347	237.894	377.844	139.95
1348	238.549	378.499	139.95
1349	239.203	379.153	139.95
1350	239.856	379.806	139.95
1351	240.508	380.458	139.95
1352	241.159	381.109	139.95
1353	241.811	381.761	139.95
1354	242.464	382.414	139.95
1355	243.118	383.068	139.95
1356	243.774	383.724	139.95
1357	244.43	384.38	139.95
1358	245.088	385.038	139.95
1359	245.746	385.696	139.95
1360	246.406	386.355	139.95
1361	247.066	387.015	139.95
1362	247.726	387.676	139.95
1363	248.386	388.336	139.95
1364	249.046	388.996	139.95
1365	249.706	389.655	139.95
1366	250.364	390.314	139.95
1367	251.023	390.973	139.95
1368	251.68	391.63	139.95
1369	252.336	392.286	139.95
1370	252.99	392.939	139.95
1371	253.641	393.591	139.95
1372	253.861	393.81	139.95
1373	253.621	393.81	140.189
1374	253.351	393.81	140.46
1375	253.096	393.81	140.714
1376	252.892	393.81	140.918
1377	252.749	393.81	141.062
1378	252.666	393.81	141.144
1379	252.634	393.81	141.176
1380	252.66	393.836	141.176
1381	252.36	393.836	141.475
1382	251.513	393.836	142.322

1327	301.582	606.032	967.759
1328	291.075	597.305	953.797
1329	274.975	575.46	927.194
1330	260.76	556.267	903.277
1331	251.184	544.412	882.239
1332	242.38	533.513	862.898
1333	234.234	523.428	845.001
1334	224.286	516.11	828.487
1335	214.55	509.954	813.399
1336	205.778	504.407	799.805
1337	198.098	499.551	787.905
1338	191.121	495.193	777.662
1339	184.439	491.364	771.567
1340	178.516	487.969	766.164
1341	172.985	484.8	761.119
1342	167.292	481.538	755.926
1343	161.694	478.33	750.82
1344	156.271	475.222	745.873
1345	150.797	472.085	740.88
1346	148.362	469.049	738.991
1347	148.467	466.04	739.707
1348	148.579	462.847	740.467
1349	148.694	459.534	741.256
1350	148.817	456.032	742.089
1351	148.946	452.316	742.974
1352	150.074	450.567	746.284
1353	152.346	451.014	752.386
1354	154.682	451.474	758.659
1355	156.974	451.925	764.818
1356	159.23	452.369	770.875
1357	159.257	452.842	771.713
1358	158.367	453.321	770.39
1359	157.498	453.788	769.1
1360	156.651	454.244	767.841
1361	155.82	454.691	766.606
1362	155.136	454.791	765.189
1363	154.578	454.611	763.636
1364	154.025	454.433	762.099
1365	153.48	454.257	760.585
1366	152.944	454.085	759.094
1367	152.4	453.909	757.583
1368	151.759	452.969	755.007
1369	151.064	451.946	752.211
1370	150.319	450.849	749.215
1371	149.538	449.699	746.075
1372	376.913	190.466	465.717
1373	413.508	209.937	472.748
1374	418.143	212.959	473.895
1375	392.725	198.091	468.391
1376	347.317	178.826	461.761
1377	288.493	163.565	456.803
1378	207.905	154.007	453.68
1379	66.6287	58.5211	175.092
1380	95.4138	129.975	377.145
1381	550.198	398.021	692.602
1382	549.985	625.207	1024.95

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010929

1383	250.478	393.836	143.358
1384	249.441	393.836	144.394
1385	248.419	393.836	145.416
1386	247.437	393.836	146.399
1387	246.509	393.836	147.327
1388	246.081	393.836	147.754
1389	246.128	393.883	147.754
1390	246.18	393.934	147.754
1391	246.235	393.989	147.754
1392	246.293	394.047	147.754
1393	246.381	394.136	147.754
1394	246.503	394.257	147.754
1395	246.633	394.388	147.754
1396	246.771	394.525	147.754
1397	246.901	394.655	147.754
1398	247.02	394.774	147.754
1399	247.139	394.894	147.754
1400	247.259	395.013	147.754
1401	247.378	395.132	147.754
1402	247.497	395.252	147.754
1403	247.614	395.368	147.754
1404	247.738	395.493	147.754
1405	247.875	395.629	147.754
1406	248.02	395.774	147.754
1407	248.18	395.935	147.754
1408	248.323	396.078	147.754
1409	247.956	396.078	148.121
1410	247.135	396.078	148.943
1411	246.377	396.078	149.701
1412	245.682	396.078	150.395
1413	245.052	396.078	151.025
1414	244.486	396.078	151.592
1415	243.984	396.078	152.094
1416	243.548	396.078	152.53
1417	243.175	396.078	152.902
1418	242.865	396.078	153.213
1419	242.617	396.078	153.46
1420	242.433	396.078	153.645
1421	242.327	396.078	153.75
1422	242.304	396.078	153.774
1423	242.313	396.087	153.774
1424	242.317	396.091	153.774
1425	242.317	396.091	153.774
1426	242.317	396.091	153.774
1427	242.317	396.091	153.774
1428	242.317	396.091	153.774
1429	242.317	396.091	153.774
1430	242.317	396.091	153.774
1431	242.317	396.091	153.774
1432	242.317	396.091	153.774
1433	242.317	396.091	153.774
1434	242.317	396.091	153.774
1435	242.317	396.091	153.774
1436	242.317	396.091	153.774
1437	242.317	396.091	153.774
1438	242.317	396.091	153.774

1383	549.797	625.533	1032.2
1384	551.292	621.645	1034.17
1385	557.102	605.866	1021.37
1386	559.683	577.181	954.566
1387	563.258	556.253	904.672
1388	83.1713	133.551	325.495
1389	91.3585	146.795	357.538
1390	91.4051	147.363	357.728
1391	91.4517	147.93	357.918
1392	91.4982	148.498	358.108
1393	92.742	161.488	362.918
1394	93.0315	164.358	363.775
1395	93.2989	167.008	364.567
1396	93.4784	168.787	365.098
1397	92.8143	162.205	363.132
1398	92.8143	162.205	363.132
1399	92.8143	162.205	363.132
1400	92.8143	162.205	363.132
1401	92.8143	162.205	363.132
1402	92.8143	162.205	363.132
1403	92.6044	160.125	362.51
1404	93.3649	167.662	364.762
1405	93.3649	167.662	364.762
1406	94.0246	173.827	366.636
1407	94.5414	178.568	368.086
1408	92.8143	162.205	363.132
1409	567.261	544.049	876.732
1410	575.113	527.188	852.562
1411	580.047	512.787	851.149
1412	580.132	503.801	848.266
1413	574.82	500.202	829.788
1414	564.739	499.596	801.179
1415	553.725	506.599	854.684
1416	538.732	507.552	888.618
1417	514.398	504.302	889.711
1418	478.138	499.54	864.569
1419	430.858	496.934	849.839
1420	367.251	494.034	819.605
1421	210.146	376.392	616.26
1422	92.4289	272.093	430.226
1423	97.2491	270.697	403.341
1424	0	0	0
1425	0	0	0
1426	0	0	0
1427	0	0	0
1428	0	0	0
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0

1629

010930

1439	242.317	396.091	153.774
1440	242.317	396.091	153.774
1441	242.343	396.117	153.774
1442	242.412	396.186	153.774
1443	242.518	396.292	153.774
1444	242.667	396.44	153.774
1445	242.858	396.632	153.774
1446	243.092	396.866	153.774
1447	243.37	397.144	153.774
1448	243.692	397.466	153.774
1449	244.059	397.832	153.774
1450	244.471	398.245	153.774
1451	244.928	398.702	153.774
1452	245.431	399.205	153.774
1453	245.978	399.752	153.774
1454	246.569	400.343	153.774
1455	247.202	400.976	153.774
1456	247.874	401.648	153.774
1457	248.574	402.348	153.774
1458	249.274	403.047	153.774
1459	249.96	403.734	153.774
1460	250.638	404.412	153.774
1461	251.311	405.085	153.774
1462	251.981	405.755	153.774
1463	252.648	406.422	153.774
1464	253.314	407.088	153.774
1465	253.979	407.753	153.774
1466	254.642	408.416	153.774
1467	255.303	409.077	153.774
1468	255.962	409.736	153.774
1469	256.619	410.393	153.774
1470	257.274	411.048	153.774
1471	257.928	411.701	153.774
1472	258.58	412.353	153.774
1473	259.231	413.005	153.774
1474	259.884	413.657	153.774
1475	260.537	414.311	153.774
1476	261.193	414.967	153.774
1477	261.849	415.623	153.774
1478	262.507	416.281	153.774
1479	263.166	416.94	153.774
1480	263.825	417.599	153.774
1481	264.486	418.26	153.774
1482	265.146	418.92	153.774
1483	265.806	419.58	153.774
1484	266.465	420.239	153.774
1485	267.124	420.898	153.774
1486	267.782	421.556	153.774
1487	268.44	422.213	153.774
1488	269.095	422.869	153.774
1489	269.749	423.523	153.774
1490	270.401	424.175	153.774
1491	271.052	424.826	153.774
1492	271.416	425.189	153.774
1493	271.493	425.267	153.774
1494	271.57	425.344	153.774

1439	0	0	0
1440	0	0	0
1441	214.703	549.119	810.082
1442	225.846	549.893	835.519
1443	238.209	550.753	863.741
1444	258.211	552.066	885.629
1445	279.47	553.438	905.743
1446	295.621	554.743	918.654
1447	308.579	556.014	927.369
1448	317.563	557.188	931.42
1449	320.455	558.22	928.598
1450	321.919	559.56	930.221
1451	317.377	562.314	952.165
1452	312.871	565.07	974.177
1453	307.717	570.585	964.694
1454	302.712	576.604	953.771
1455	301.228	588.572	956.732
1456	301.531	603.511	966.166
1457	293.951	601.206	958.549
1458	277.515	578.907	931.392
1459	262.214	558.147	906.11
1460	251.583	544.906	883.116
1461	241.545	532.479	861.063
1462	231.637	520.758	839.877
1463	218.581	512.503	819.646
1464	205.86	504.459	799.933
1465	193.457	496.616	780.712
1466	180.496	489.104	767.971
1467	167.673	481.756	756.274
1468	155.089	474.545	744.795
1469	148.396	468.07	739.224
1470	148.592	462.467	740.558
1471	148.783	457.006	741.857
1472	148.969	451.683	743.124
1473	151.089	450.767	749.011
1474	153.821	451.304	756.348
1475	156.501	451.832	763.546
1476	159.13	452.349	770.608
1477	159.151	452.899	771.555
1478	158.114	453.457	770.015
1479	157.104	454	768.515
1480	156.123	454.528	767.057
1481	155.257	454.83	765.528
1482	154.622	454.625	763.758
1483	154.006	454.427	762.047
1484	153.409	454.234	760.388
1485	152.831	454.048	758.78
1486	152.254	453.699	757.001
1487	151.651	452.81	754.573
1488	151.057	451.936	752.186
1489	150.474	451.078	749.84
1490	149.901	450.233	747.533
1491	149.338	449.404	745.267
1492	95.5939	132.966	377.762
1493	95.5939	132.966	377.762
1494	95.5939	132.966	377.762

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010931

1495	271.649	425.423	153.774
1496	271.729	425.502	153.774
1497	271.806	425.58	153.774
1498	271.883	425.657	153.774
1499	271.961	425.735	153.774
1500	272.038	425.812	153.774
1501	272.116	425.889	153.774
1502	272.193	425.967	153.774
1503	272.27	426.044	153.774
1504	272.347	426.121	153.774
1505	272.425	426.199	153.774
1506	272.502	426.276	153.774
1507	272.579	426.353	153.774
1508	272.657	426.43	153.774
1509	272.734	426.508	153.774
1510	272.811	426.585	153.774
1511	272.889	426.662	153.774
1512	272.966	426.74	153.774
1513	273.043	426.817	153.774
1514	273.121	426.894	153.774
1515	273.198	426.972	153.774
1516	273.275	427.049	153.774
1517	273.352	427.126	153.774
1518	273.43	427.204	153.774
1519	273.507	427.281	153.774
1520	273.584	427.358	153.774
1521	273.662	427.435	153.774
1522	273.746	427.52	153.774
1523	273.857	427.631	153.774
1524	274.01	427.784	153.774
1525	274.204	427.978	153.774
1526	274.439	428.213	153.774
1527	274.717	428.49	153.774
1528	275.035	428.809	153.774
1529	275.373	429.147	153.774
1530	275.712	429.486	153.774
1531	276.05	429.824	153.774
1532	276.375	430.149	153.774
1533	276.668	430.442	153.774
1534	276.926	430.7	153.774
1535	277.15	430.924	153.774
1536	277.339	431.113	153.774
1537	277.494	431.268	153.774
1538	277.623	431.396	153.774
1539	277.586	431.396	153.81
1540	276.973	431.396	154.423
1541	275.938	431.396	155.458
1542	274.901	431.396	156.496
1543	273.878	431.396	157.519
1544	272.894	431.396	158.502
1545	271.968	431.396	159.428
1546	271.105	431.396	160.291
1547	270.305	431.396	161.092
1548	269.567	431.396	161.829
1549	268.893	431.396	162.504
1550	268.282	431.396	163.115

1495	95.6367	133.678	377.909
1496	95.5939	132.966	377.762
1497	95.5939	132.966	377.762
1498	95.5995	133.059	377.781
1499	95.5941	132.97	377.763
1500	95.5939	132.966	377.762
1501	95.5939	132.966	377.762
1502	95.5939	132.966	377.762
1503	95.5939	132.966	377.762
1504	95.5939	132.966	377.762
1505	95.5939	132.966	377.762
1506	95.5939	132.966	377.762
1507	95.5939	132.966	377.762
1508	95.5939	132.966	377.762
1509	95.5939	132.966	377.762
1510	95.5939	132.966	377.762
1511	95.5939	132.966	377.762
1512	95.5939	132.966	377.762
1513	95.5939	132.966	377.762
1514	95.5939	132.966	377.762
1515	95.5939	132.966	377.762
1516	95.5939	132.966	377.762
1517	95.5939	132.966	377.762
1518	95.5939	132.966	377.762
1519	95.5939	132.966	377.762
1520	95.5939	132.966	377.762
1521	95.5939	132.966	377.762
1522	95.806	136.167	378.481
1523	96.7239	148.465	381.561
1524	98.0318	163.944	385.924
1525	99.693	182.296	391.372
1526	101.907	202.682	398.76
1527	104.578	224.61	416.414
1528	107.67	247.14	450.402
1529	107.67	247.14	450.402
1530	107.67	247.14	450.402
1531	107.67	247.14	450.402
1532	105.507	231.523	426.648
1533	103.095	212.709	404.925
1534	101.018	194.91	395.808
1535	99.2815	178.313	389.991
1536	97.9829	163.379	385.761
1537	96.8687	150.295	382.045
1538	96.4084	144.476	380.506
1539	363.727	184.22	463.533
1540	550.054	625.056	1024.22
1541	549.75	625.648	1031.89
1542	550.993	622.456	1034.83
1543	556.9	606.415	1021.82
1544	559.645	577.736	955.924
1545	563.69	554.938	901.66
1546	569.921	538.306	868.52
1547	577.535	521.605	845.349
1548	581.217	508.679	853.85
1549	578.941	502.443	843.551
1550	571.841	500.023	821.333

010932

1551	267.734	431.396	163.662
1552	267.251	431.396	164.145
1553	266.833	431.396	164.563
1554	266.479	431.396	164.918
1555	266.186	431.396	165.211
1556	265.956	431.396	165.44
1557	265.788	431.396	165.608
1558	265.707	431.396	165.689
1559	265.7	431.396	165.697
1560	265.709	431.405	165.697
1561	265.713	431.409	165.697
1562	265.713	431.409	165.697
1563	265.713	431.409	165.697
1564	265.713	431.409	165.697
1565	265.713	431.409	165.697
1566	265.713	431.409	165.697
1567	265.713	431.409	165.697
1568	265.713	431.409	165.697
1569	265.713	431.409	165.697
1570	265.713	431.409	165.697
1571	265.713	431.409	165.697
1572	265.713	431.409	165.697
1573	265.713	431.409	165.697
1574	265.713	431.409	165.697
1575	265.713	431.409	165.697
1576	265.713	431.409	165.697
1577	265.713	431.409	165.697
1578	265.743	431.44	165.697
1579	265.822	431.519	165.697
1580	265.94	431.637	165.697
1581	266.1	431.797	165.697
1582	266.303	432	165.697
1583	266.55	432.246	165.697
1584	266.84	432.537	165.697
1585	267.175	432.871	165.697
1586	267.554	433.251	165.697
1587	267.979	433.676	165.697
1588	268.449	434.146	165.697
1589	268.965	434.662	165.697
1590	269.525	435.221	165.697
1591	270.128	435.825	165.697
1592	270.772	436.469	165.697
1593	271.456	437.152	165.697
1594	272.158	437.855	165.697
1595	272.854	438.551	165.697
1596	273.538	439.235	165.697
1597	274.215	439.911	165.697
1598	274.887	440.584	165.697
1599	275.556	441.253	165.697
1600	276.223	441.92	165.697
1601	276.889	442.586	165.697
1602	277.554	443.25	165.697
1603	278.217	443.914	165.697
1604	278.878	444.575	165.697
1605	279.538	445.234	165.697
1606	280.195	445.892	165.697

1551	561.573	501.462	814.936
1552	550.578	508.621	870.374
1553	534.067	507.117	895.706
1554	504.983	502.822	881.963
1555	464.912	498.811	860.448
1556	413.929	496.138	842.201
1557	349.124	493.217	810.829
1558	153.433	327.614	535.589
1559	93.7772	271.702	422.706
1560	98.5974	270.306	395.82
1561	0	0	0
1562	0	0	0
1563	0	0	0
1564	0	0	0
1565	0	0	0
1566	0	0	0
1567	0	0	0
1568	0	0	0
1569	0	0	0
1570	0	0	0
1571	0	0	0
1572	0	0	0
1573	0	0	0
1574	0	0	0
1575	0	0	0
1576	0	0	0
1577	0	0	0
1578	217.82	549.335	817.197
1579	228.963	550.11	842.635
1580	243.011	551.074	871.107
1581	264.21	552.449	891.245
1582	285.219	553.826	911.408
1583	299.299	555.096	921.064
1584	312.442	556.359	929.673
1585	318.484	557.471	930.554
1586	321.22	558.511	927.839
1587	320.653	560.331	936.373
1588	316.108	563.084	958.305
1589	311.45	566.529	972.875
1590	306.369	572.388	961.766
1591	301.28	578.217	950.633
1592	301.313	592.764	959.379
1593	301.615	607.665	968.79
1594	289.229	594.8	950.748
1595	273.134	572.963	924.154
1596	259.126	554.245	899.688
1597	248.927	541.619	877.282
1598	239.201	529.576	855.912
1599	228.883	519.016	835.609
1600	216.414	511.133	816.288
1601	204.379	503.523	797.638
1602	192.763	496.178	779.637
1603	180.898	489.335	768.337
1604	169.396	482.743	757.845
1605	158.334	476.405	747.755
1606	148.316	470.366	738.677

1607	280.851	446.548	165.697
1608	281.505	447.202	165.697
1609	282.159	447.855	165.697
1610	282.81	448.507	165.697
1611	283.462	449.158	165.697
1612	284.114	449.811	165.697
1613	284.767	450.464	165.697
1614	285.422	451.119	165.697
1615	286.078	451.775	165.697
1616	286.735	452.431	165.697
1617	287.392	453.089	165.697
1618	288.051	453.747	165.697
1619	288.71	454.407	165.697
1620	289.37	455.066	165.697
1621	290.03	455.727	165.697
1622	290.691	456.387	165.697
1623	291.351	457.048	165.697
1624	292.011	457.707	165.697
1625	292.67	458.367	165.697
1626	293.329	459.026	165.697
1627	293.988	459.684	165.697
1628	294.646	460.342	165.697
1629	295.303	460.999	165.697
1630	295.959	461.655	165.697
1631	296.613	462.31	165.697
1632	297.267	462.963	165.697
1633	297.919	463.616	165.697
1634	298.57	464.267	165.697
1635	299.141	464.838	165.697
1636	298.993	464.838	165.845
1637	298.083	464.838	166.755
1638	297.046	464.838	167.791
1639	296.012	464.838	168.826
1640	294.997	464.838	169.841
1641	294.027	464.838	170.811
1642	293.118	464.838	171.72
1643	292.272	464.838	172.565
1644	291.49	464.838	173.347
1645	290.771	464.838	174.067
1646	290.115	464.838	174.723
1647	289.522	464.838	175.315
1648	288.993	464.838	175.845
1649	288.529	464.838	176.309
1650	288.13	464.838	176.708
1651	287.793	464.838	177.045
1652	287.518	464.838	177.32
1653	287.307	464.838	177.531
1654	287.163	464.838	177.675
1655	287.114	464.838	177.724
1656	287.123	464.847	177.724
1657	287.127	464.851	177.724
1658	287.127	464.851	177.724
1659	287.127	464.851	177.724
1660	287.127	464.851	177.724
1661	287.127	464.851	177.724
1662	287.127	464.851	177.724

1607	148.484	465.544	739.825
1608	148.651	460.761	740.964
1609	148.814	456.099	742.073
1610	148.975	451.496	743.169
1611	150.82	450.713	748.287
1612	153.18	451.178	754.626
1613	155.464	451.628	760.761
1614	157.67	452.062	766.686
1615	159.795	452.48	772.393
1616	159.098	452.928	771.477
1617	158.293	453.361	770.28
1618	157.518	453.778	769.129
1619	156.774	454.178	768.023
1620	156.048	454.568	766.946
1621	155.37	454.867	765.839
1622	154.889	454.712	764.502
1623	154.421	454.561	763.201
1624	153.965	454.414	761.932
1625	153.516	454.269	760.684
1626	153.074	454.126	759.456
1627	152.634	453.985	758.233
1628	152.184	453.596	756.72
1629	151.721	452.914	754.856
1630	151.265	452.243	753.022
1631	150.817	451.583	751.219
1632	150.377	450.934	749.447
1633	149.944	450.296	747.705
1634	149.518	449.669	745.993
1635	123.772	340.544	587.998
1636	562.151	470.18	797.798
1637	549.89	625.414	1025.95
1638	549.905	625.271	1032.9
1639	552.404	618.625	1031.72
1640	558.063	600.833	1012.42
1641	560.225	569.257	935.184
1642	565.232	550.237	890.898
1643	572.185	533.458	861.561
1644	578.633	517.916	848.349
1645	581.7	505.586	854.467
1646	577.812	501.158	839.085
1647	568.934	499.848	813.084
1648	558.384	503.55	831.09
1649	545.793	508.212	877.891
1650	528.826	506.629	902.004
1651	495.241	501.334	874.296
1652	451.187	498.054	856.172
1653	395.116	495.29	833.094
1654	297.333	451.38	740.278
1655	94.5774	276.994	451.871
1656	95.1765	271.297	414.901
1657	0	0	0
1658	0	0	0
1659	0	0	0
1660	0	0	0
1661	0	0	0
1662	0	0	0

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010934

1663	287.127	464.851	177.724
1664	287.127	464.851	177.724
1665	287.127	464.851	177.724
1666	287.127	464.851	177.724
1667	287.127	464.851	177.724
1668	287.127	464.851	177.724
1669	287.127	464.851	177.724
1670	287.127	464.851	177.724
1671	287.127	464.851	177.724
1672	287.127	464.851	177.724
1673	287.127	464.851	177.724
1674	287.145	464.869	177.724
1675	287.199	464.922	177.724
1676	287.288	465.012	177.724
1677	287.417	465.141	177.724
1678	287.59	465.314	177.724
1679	287.806	465.529	177.724
1680	288.065	465.788	177.724
1681	288.367	466.091	177.724
1682	288.715	466.439	177.724
1683	289.108	466.831	177.724
1684	289.546	467.269	177.724
1685	290.029	467.753	177.724
1686	290.558	468.281	177.724
1687	291.131	468.854	177.724
1688	291.746	469.47	177.724
1689	292.404	470.127	177.724
1690	293.098	470.822	177.724
1691	293.803	471.526	177.724
1692	294.493	472.217	177.724
1693	295.173	472.897	177.724
1694	295.848	473.571	177.724
1695	296.518	474.242	177.724
1696	297.186	474.91	177.724
1697	297.852	475.576	177.724
1698	298.517	476.241	177.724
1699	299.181	476.905	177.724
1700	299.843	477.567	177.724
1701	300.503	478.226	177.724
1702	301.16	478.884	177.724
1703	301.816	479.54	177.724
1704	302.47	480.194	177.724
1705	303.123	480.847	177.724
1706	303.449	481.172	177.724
1707	303.448	481.172	177.724
1708	303.448	481.172	177.724
1709	303.448	481.172	177.725
1710	303.447	481.172	177.725
1711	303.447	481.172	177.725
1712	303.447	481.172	177.726
1713	303.446	481.172	177.726
1714	303.446	481.172	177.726
1715	303.446	481.172	177.727
1716	303.445	481.172	177.727
1717	303.448	481.176	177.727
1718	303.45	481.177	177.727

1663	0	0	0
1664	0	0	0
1665	0	0	0
1666	0	0	0
1667	0	0	0
1668	0	0	0
1669	0	0	0
1670	0	0	0
1671	0	0	0
1672	0	0	0
1673	0	0	0
1674	209.911	548.785	799.144
1675	221.055	549.56	824.582
1676	232.278	550.341	850.201
1677	249.132	551.474	876.962
1678	270.361	552.848	897.089
1679	289.781	554.204	914.996
1680	302.928	555.47	923.65
1681	316.256	556.726	932.171
1682	319.172	557.778	929.844
1683	321.992	558.814	927.079
1684	319.339	561.131	942.756
1685	314.787	563.885	964.696
1686	309.944	568.266	969.581
1687	304.813	574.182	958.364
1688	301.106	582.581	952.948
1689	301.417	597.893	962.619
1690	299.989	609.398	968.525
1691	282.529	585.71	939.677
1692	266.229	563.595	912.745
1693	254.393	548.385	889.289
1694	244.315	535.908	867.147
1695	234.648	523.94	845.909
1696	222.485	514.971	825.696
1697	209.859	506.988	806.129
1698	197.453	499.143	786.905
1699	184.616	491.465	771.728
1700	171.756	484.096	759.998
1701	159.282	476.948	748.62
1702	148.324	470.136	738.732
1703	148.515	464.671	740.033
1704	148.701	459.344	741.301
1705	148.882	454.153	742.536
1706	1.78717	1.68414	4.19792
1707	1.78717	1.68414	4.19792
1708	1.78717	1.68414	4.19792
1709	1.78717	1.68414	4.19792
1710	1.78717	1.68414	4.19792
1711	1.78717	1.68414	4.19792
1712	1.78717	1.68414	4.19792
1713	1.78717	1.68414	4.19792
1714	1.78717	1.68414	4.19792
1715	1.78717	1.68414	4.19792
1716	1.78717	1.68414	4.19792
1717	14.0096	20.0313	50.0365
1718	24.8262	23.3949	58.3147

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010935

1719	303.449	481.177	177.727
1720	303.462	481.189	177.727
1721	303.491	481.218	177.727
1722	303.835	481.562	177.727
1723	304.487	482.214	177.727
1724	305.14	482.867	177.727
1725	305.794	483.521	177.727
1726	306.449	484.176	177.727
1727	307.105	484.832	177.727
1728	307.762	485.489	177.727
1729	308.42	486.147	177.727
1730	309.079	486.806	177.727
1731	309.739	487.466	177.727
1732	310.399	488.126	177.727
1733	311.059	488.787	177.727
1734	311.72	489.447	177.727
1735	312.379	490.107	177.727
1736	313.039	490.766	177.727
1737	313.698	491.425	177.727
1738	314.356	492.083	177.727
1739	314.167	492.083	177.917
1740	313.129	492.083	178.954
1741	312.099	492.083	179.984
1742	311.101	492.083	180.983
1743	310.155	492.083	181.929
1744	309.688	492.083	182.395
1745	309.793	492.188	182.395
1746	310.029	492.424	182.395
1747	310.284	492.68	182.395
1748	310.552	492.947	182.395
1749	310.849	493.244	182.395
1750	311.175	493.57	182.395
1751	311.507	493.902	182.395
1752	311.845	494.24	182.395
1753	312.186	494.581	182.395
1754	312.516	494.911	182.395
1755	312.837	495.232	182.395
1756	313.158	495.553	182.395
1757	313.479	495.874	182.395
1758	313.8	496.195	182.395
1759	314.121	496.516	182.395
1760	314.442	496.837	182.395
1761	314.763	497.158	182.395
1762	315.084	497.479	182.395
1763	315.405	497.8	182.395
1764	315.719	498.114	182.395
1765	316.014	498.409	182.395
1766	315.827	498.409	182.582
1767	315.088	498.409	183.321
1768	314.304	498.409	184.105
1769	313.587	498.409	184.822
1770	312.939	498.409	185.47
1771	312.357	498.409	186.052
1772	311.843	498.409	186.566
1773	311.396	498.409	187.013
1774	311.016	498.409	187.393

1719	8.46595	12.1048	30.2368
1720	43.0594	61.5673	153.79
1721	77.6529	111.03	277.343
1722	149.403	450.435	744.482
1723	151.864	450.919	751.092
1724	154.207	451.38	757.384
1725	156.432	451.818	763.36
1726	158.573	452.24	769.111
1727	159.575	452.671	772.185
1728	158.731	453.125	770.931
1729	157.901	453.572	769.699
1730	157.085	454.01	768.487
1731	156.283	454.442	767.295
1732	155.495	454.866	766.124
1733	154.948	454.73	764.665
1734	154.425	454.562	763.211
1735	153.911	454.396	761.782
1736	153.405	454.233	760.377
1737	152.909	454.073	758.996
1738	152.42	453.916	757.639
1739	549.565	626.118	1029.37
1740	550.163	624.643	1034.59
1741	554.571	612.74	1026.95
1742	558.902	588.571	982.427
1743	561.965	560.198	913.703
1744	91.5364	91.0082	222.278
1745	97.5566	204.527	378.472
1746	98.773	213.846	384.628
1747	100.075	223.473	391.761
1748	100.351	225.894	394.801
1749	104.071	254.632	438.353
1750	104.566	257.802	443.275
1751	105.114	261.083	448.264
1752	105.671	264.38	453.261
1753	105.61	264.02	452.716
1754	103.855	253.248	436.205
1755	103.855	253.248	436.205
1756	103.855	253.248	436.205
1757	103.855	253.248	436.205
1758	103.855	253.248	436.205
1759	103.855	253.248	436.205
1760	103.855	253.248	436.205
1761	103.855	253.248	436.205
1762	103.855	253.248	436.205
1763	103.855	253.248	436.205
1764	102.624	245.358	423.957
1765	101.105	233.095	405.467
1766	551.217	425.926	708.887
1767	571.582	534.749	863.415
1768	578.627	517.773	847.87
1769	581.385	505.228	858.223
1770	577.243	500.51	856.836
1771	566.901	499.726	807.313
1772	555.611	505.365	845.134
1773	541.065	507.77	885.078
1774	518.478	504.944	893.069

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010936

1775	310.698	498.409	187.711
1776	310.444	498.409	187.965
1777	310.254	498.409	188.155
1778	310.141	498.409	188.268
1779	310.113	498.409	188.296
1780	310.122	498.418	188.296
1781	310.127	498.423	188.296
1782	310.127	498.423	188.296
1783	310.127	498.423	188.296
1784	310.127	498.423	188.296
1785	310.127	498.423	188.296
1786	310.127	498.423	188.296
1787	310.127	498.423	188.296
1788	310.127	498.423	188.296
1789	310.127	498.423	188.296
1790	310.127	498.423	188.296
1791	310.127	498.423	188.296
1792	310.127	498.423	188.296
1793	310.127	498.423	188.296
1794	310.127	498.423	188.296
1795	310.127	498.423	188.296
1796	310.127	498.423	188.296
1797	310.127	498.423	188.296
1798	310.151	498.447	188.296
1799	310.217	498.513	188.296
1800	310.32	498.616	188.296
1801	310.464	498.76	188.296
1802	310.65	498.947	188.296
1803	310.88	499.176	188.296
1804	311.152	499.448	188.296
1805	311.468	499.764	188.296
1806	311.828	500.125	188.296
1807	312.234	500.53	188.296
1808	312.684	500.98	188.296
1809	313.18	501.476	188.296
1810	313.72	502.017	188.296
1811	314.305	502.601	188.296
1812	314.931	503.227	188.296
1813	315.597	503.893	188.296
1814	316.294	504.591	188.296
1815	316.996	505.293	188.296
1816	317.685	505.981	188.296
1817	318.364	506.661	188.296
1818	319.038	507.335	188.296
1819	319.709	508.005	188.296
1820	320.376	508.673	188.296
1821	321.043	509.339	188.296
1822	321.708	510.004	188.296
1823	322.372	510.668	188.296
1824	323.035	511.331	188.296
1825	323.696	511.992	188.296
1826	324.355	512.651	188.296
1827	325.012	513.309	188.296
1828	325.669	513.965	188.296
1829	326.324	514.62	188.296
1830	326.757	515.054	188.296

1775	483.191	499.818	866.143
1776	435.425	497.186	851.262
1777	372.96	494.291	822.368
1778	226.413	390.383	639.398
1779	92.0725	272.196	432.214
1780	96.9002	270.798	405.287
1781	0	0	0
1782	0	0	0
1783	0	0	0
1784	0	0	0
1785	0	0	0
1786	0	0	0
1787	0	0	0
1788	0	0	0
1789	0	0	0
1790	0	0	0
1791	0	0	0
1792	0	0	0
1793	0	0	0
1794	0	0	0
1795	0	0	0
1796	0	0	0
1797	0	0	0
1798	213.871	549.061	808.184
1799	224.921	549.829	833.407
1800	236.951	550.666	860.868
1801	256.095	551.923	883.537
1802	277.046	553.281	903.44
1803	293.978	554.585	917.578
1804	307.001	555.837	926.109
1805	317.328	557.031	931.701
1806	320.046	558.065	929.003
1807	322.617	559.134	926.812
1808	318.106	561.882	948.747
1809	313.56	564.629	970.63
1810	308.596	569.82	966.634
1811	303.517	575.676	955.531
1812	301.179	586.19	955.227
1813	301.483	601.151	964.676
1814	296.673	604.9	963.047
1815	280.042	582.335	935.567
1816	264.611	561.399	910.071
1817	253.339	547.08	886.973
1818	243.434	534.817	865.212
1819	234.079	523.236	844.66
1820	222.32	514.867	825.44
1821	210.526	507.409	807.163
1822	199.288	500.303	789.748
1823	188.321	493.588	775.107
1824	177.309	487.278	765.064
1825	167.314	481.55	755.947
1826	158.295	476.382	747.719
1827	149.822	471.527	739.991
1828	148.411	467.659	739.322
1829	148.535	464.108	740.167
1830	96.7035	197.666	374.667

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010937

1831	326.969	515.266	188.296
1832	327.181	515.477	188.296
1833	327.393	515.689	188.296
1834	327.605	515.901	188.296
1835	327.813	516.11	188.296
1836	328.014	516.31	188.296
1837	328.204	516.5	188.296
1838	328.38	516.676	188.296
1839	328.554	516.85	188.296
1840	328.729	517.025	188.296
1841	328.893	517.19	188.296
1842	329.049	517.345	188.296
1843	329.197	517.494	188.296
1844	329.33	517.627	188.296
1845	329.45	517.746	188.296
1846	329.569	517.865	188.296
1847	329.688	517.985	188.296
1848	329.808	518.104	188.296
1849	329.679	518.104	188.425
1850	329.069	518.104	189.035
1851	328.26	518.104	189.844
1852	327.515	518.104	190.589
1853	326.833	518.104	191.271
1854	326.216	518.104	191.888
1855	325.662	518.104	192.442
1856	325.173	518.104	192.931
1857	324.75	518.104	193.354
1858	324.391	518.104	193.713
1859	324.093	518.104	194.011
1860	323.858	518.104	194.246
1861	323.686	518.104	194.418
1862	323.598	518.104	194.506
1863	323.585	518.104	194.518
1864	323.595	518.113	194.518
1865	323.599	518.117	194.518
1866	323.599	518.117	194.518
1867	323.599	518.117	194.518
1868	323.599	518.117	194.518
1869	323.599	518.117	194.518
1870	323.599	518.117	194.518
1871	323.599	518.117	194.518
1872	323.599	518.117	194.518
1873	323.599	518.117	194.518
1874	323.599	518.117	194.518
1875	323.599	518.117	194.518
1876	323.599	518.117	194.518
1877	323.599	518.117	194.518
1878	323.599	518.117	194.518
1879	323.599	518.117	194.518
1880	323.599	518.117	194.518
1881	323.599	518.117	194.518
1882	323.628	518.146	194.518
1883	323.704	518.222	194.518
1884	323.819	518.337	194.518
1885	323.975	518.494	194.518
1886	324.175	518.694	194.518

1831	96.7035	197.666	374.667
1832	96.7035	197.666	374.667
1833	96.7035	197.666	374.667
1834	96.7035	197.666	374.667
1835	96.3603	194.906	373.136
1836	95.8493	190.405	371.581
1837	95.36	185.991	370.289
1838	94.5709	178.838	368.169
1839	95.1452	184.053	369.722
1840	94.6733	179.777	368.456
1841	94.2481	175.877	367.263
1842	93.911	172.785	366.318
1843	93.7169	171.006	365.774
1844	92.8143	162.205	363.132
1845	92.8143	162.205	363.132
1846	92.8143	162.205	363.132
1847	92.8143	162.205	363.132
1848	92.8143	162.205	363.132
1849	470.906	282.476	495.592
1850	568.664	540.991	872.345
1851	576.716	523.754	847.634
1852	580.792	510.172	852.869
1853	579.347	502.906	845.16
1854	572.801	500.08	824.059
1855	562.555	500.82	809.965
1856	551.515	508.045	865.877
1857	535.411	507.242	893.663
1858	507.654	503.242	884.161
1859	468.646	499.016	861.612
1860	419.046	496.369	844.678
1861	354.241	493.447	813.306
1862	169.441	341.383	558.36
1863	93.3966	271.813	424.829
1864	98.2168	270.416	397.943
1865	0	0	0
1866	0	0	0
1867	0	0	0
1868	0	0	0
1869	0	0	0
1870	0	0	0
1871	0	0	0
1872	0	0	0
1873	0	0	0
1874	0	0	0
1875	0	0	0
1876	0	0	0
1877	0	0	0
1878	0	0	0
1879	0	0	0
1880	0	0	0
1881	0	0	0
1882	216.94	549.274	815.189
1883	228.083	550.049	840.626
1884	241.336	550.966	869.517
1885	262.449	552.342	889.674
1886	283.723	553.714	909.782

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010938

1887	324.418	518.937	194.518
1888	324.705	519.224	194.518
1889	325.036	519.555	194.518
1890	325.412	519.931	194.518
1891	325.834	520.352	194.518
1892	326.3	520.819	194.518
1893	326.812	521.33	194.518
1894	327.367	521.886	194.518
1895	327.965	522.483	194.518
1896	328.603	523.121	194.518
1897	329.278	523.796	194.518
1898	329.978	524.497	194.518
1899	330.679	525.198	194.518
1900	331.368	525.886	194.518
1901	332.047	526.566	194.518
1902	332.722	527.24	194.518
1903	333.393	527.912	194.518
1904	334.062	528.58	194.518
1905	334.728	529.247	194.518
1906	335.394	529.913	194.518
1907	336.059	530.577	194.518
1908	336.722	531.241	194.518
1909	337.384	531.903	194.518
1910	338.044	532.562	194.518
1911	338.702	533.22	194.518
1912	339.358	533.877	194.518
1913	340.014	534.532	194.518
1914	340.668	535.186	194.518
1915	341.321	535.84	194.518
1916	341.974	536.492	194.518
1917	342.625	537.144	194.518
1918	343.276	537.795	194.518
1919	343.927	538.446	194.518
1920	344.579	539.097	194.518
1921	345.231	539.749	194.518
1922	345.883	540.402	194.518
1923	346.537	541.055	194.518
1924	346.376	541.055	194.679
1925	345.434	541.055	195.621
1926	344.558	541.055	196.497
1927	343.747	541.055	197.308
1928	343	541.055	198.055
1929	342.316	541.055	198.739
1930	341.696	541.055	199.359
1931	341.139	541.055	199.916
1932	340.647	541.055	200.408
1933	340.22	541.055	200.835
1934	339.856	541.055	201.199
1935	339.554	541.055	201.501
1936	339.315	541.055	201.74
1937	339.139	541.055	201.916
1938	339.046	541.055	202.009
1939	339.03	541.055	202.025
1940	339.039	541.064	202.025
1941	339.043	541.068	202.025
1942	339.043	541.068	202.025

1887	298.26	554.997	920.383
1888	311.404	556.26	928.993
1889	318.268	557.388	930.768
1890	321.004	558.429	928.053
1891	321.005	560.113	934.613
1892	316.489	562.867	956.603
1893	311.916	565.991	973.891
1894	306.913	571.76	962.956
1895	301.988	577.439	952.188
1896	301.258	590.081	957.684
1897	301.545	604.183	966.591
1898	294.366	601.769	959.234
1899	279.135	581.105	934.069
1900	265.005	561.933	910.721
1901	254.51	548.529	889.546
1902	245.427	537.285	869.591
1903	236.764	526.56	850.56
1904	226.888	517.755	832.519
1905	215.757	510.717	815.269
1906	204.969	503.896	798.552
1907	194.252	497.119	781.944
1908	182.869	490.464	770.135
1909	171.421	483.903	759.692
1910	160.665	477.74	749.882
1911	150.827	472.103	740.908
1912	148.41	467.674	739.318
1913	148.541	463.913	740.213
1914	148.659	460.54	741.016
1915	148.764	457.55	741.728
1916	148.855	454.936	742.35
1917	148.933	452.693	742.884
1918	149.002	450.724	743.353
1919	149.845	450.522	745.669
1920	150.862	450.722	748.4
1921	151.994	450.945	751.44
1922	153.274	451.197	754.88
1923	154.703	451.478	758.717
1924	559.005	587.068	978.751
1925	562.415	558.826	910.562
1926	568.457	541.442	873.021
1927	576.542	524.127	848.168
1928	580.687	510.54	852.627
1929	579.535	503.158	846.347
1930	573.272	500.109	825.395
1931	563.144	500.434	806.98
1932	552.157	507.625	862.625
1933	536.429	507.337	892.116
1934	509.784	503.577	885.914
1935	471.673	499.183	862.555
1936	423.195	496.556	846.687
1937	358.391	493.634	815.315
1938	182.423	352.548	576.825
1939	93.088	271.902	426.55
1940	97.9082	270.506	399.665
1941	0	0	0
1942	0	0	0

010939

1943	339.043	541.068	202.025
1944	339.043	541.068	202.025
1945	339.043	541.068	202.025
1946	339.043	541.068	202.025
1947	339.043	541.068	202.025
1948	339.043	541.068	202.025
1949	339.043	541.068	202.025
1950	339.043	541.068	202.025
1951	339.043	541.068	202.025
1952	339.043	541.068	202.025
1953	339.043	541.068	202.025
1954	339.043	541.068	202.025
1955	339.043	541.068	202.025
1956	339.043	541.068	202.025
1957	339.043	541.068	202.025
1958	339.071	541.096	202.025
1959	339.145	541.17	202.025
1960	339.257	541.282	202.025
1961	339.411	541.436	202.025
1962	339.608	541.633	202.025
1963	339.848	541.874	202.025
1964	340.132	542.158	202.025
1965	340.461	542.486	202.025
1966	340.834	542.859	202.025
1967	341.252	543.277	202.025
1968	341.716	543.741	202.025
1969	342.225	544.25	202.025
1970	342.779	544.804	202.025
1971	343.376	545.401	202.025
1972	344.014	546.039	202.025
1973	344.692	546.717	202.025
1974	345.393	547.418	202.025
1975	346.091	548.116	202.025
1976	346.777	548.802	202.025
1977	347.454	549.479	202.025
1978	348.128	550.153	202.025
1979	348.798	550.823	202.025
1980	349.466	551.491	202.025
1981	350.132	552.157	202.025
1982	350.798	552.823	202.025
1983	351.463	553.488	202.025
1984	352.127	554.152	202.025
1985	352.789	554.814	202.025
1986	353.45	555.475	202.025
1987	354.11	556.135	202.025
1988	354.768	556.793	202.025
1989	355.425	557.45	202.025
1990	356.081	558.106	202.025
1991	356.735	558.761	202.025
1992	357.389	559.414	202.025
1993	358.042	560.067	202.025
1994	358.694	560.719	202.025
1995	359.345	561.37	202.025
1996	359.996	562.022	202.025
1997	360.648	562.674	202.025
1998	361.301	563.326	202.025

1943	0	0	0
1944	0	0	0
1945	0	0	0
1946	0	0	0
1947	0	0	0
1948	0	0	0
1949	0	0	0
1950	0	0	0
1951	0	0	0
1952	0	0	0
1953	0	0	0
1954	0	0	0
1955	0	0	0
1956	0	0	0
1957	0	0	0
1958	216.226	549.224	813.56
1959	227.37	549.999	838.997
1960	240.096	550.884	868.047
1961	261.179	552.252	888.367
1962	282.367	553.626	908.494
1963	297.233	554.922	919.901
1964	310.563	556.179	928.442
1965	318.093	557.322	930.942
1966	320.829	558.362	928.227
1967	321.296	559.936	933.206
1968	316.775	562.693	955.213
1969	312.177	565.69	974.464
1970	307.095	571.55	963.354
1971	302.018	577.404	952.254
1972	301.269	590.622	958.027
1973	301.572	605.536	967.445
1974	291.801	598.289	954.996
1975	275.901	576.717	928.726
1976	261.425	557.091	904.74
1977	251.74	545.1	883.461
1978	242.686	533.891	863.569
1979	234.241	523.436	845.015
1980	223.904	515.868	827.894
1981	213.561	509.329	811.867
1982	203.87	503.201	796.849
1983	194.814	497.475	782.815
1984	185.927	492.216	772.924
1985	177.353	487.303	765.103
1986	169.054	482.547	757.533
1987	161.003	477.934	750.19
1988	153.195	473.459	743.067
1989	148.349	469.41	738.905
1990	148.469	465.984	739.72
1991	148.586	462.645	740.515
1992	148.699	459.391	741.29
1993	148.81	456.22	742.044
1994	148.918	453.129	742.78
1995	149.144	450.384	743.787
1996	150.723	450.695	748.028
1997	152.273	451	752.189
1998	153.793	451.299	756.272

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010939 B

1999	361.955	563.98	202.025
2000	362.609	564.634	202.025
2001	363.264	565.29	202.025
2002	363.92	565.945	202.025
2003	364.577	566.602	202.025
2004	365.234	567.259	202.025
2005	365.892	567.917	202.025
2006	366.55	568.575	202.025
2007	367.208	569.234	202.025
2008	367.868	569.893	202.025
2009	368.527	570.552	202.025
2010	369.187	571.213	202.025
2011	369.848	571.873	202.025
2012	370.509	572.534	202.025
2013	370.319	572.534	202.214
2014	369.293	572.534	203.24
2015	368.306	572.534	204.228
2016	367.377	572.534	205.157
2017	366.512	572.534	206.021
2018	365.712	572.534	206.822
2019	364.976	572.534	207.558
2020	364.303	572.534	208.231
2021	363.693	572.534	208.84
2022	363.147	572.534	209.387
2023	362.666	572.534	209.868
2024	362.249	572.534	210.284
2025	361.896	572.534	210.638
2026	361.605	572.534	210.929
2027	361.376	572.534	211.158
2028	361.21	572.534	211.324
2029	361.131	572.534	211.403
2030	361.125	572.534	211.409
2031	361.134	572.543	211.409
2032	361.138	572.547	211.409
2033	361.138	572.547	211.409
2034	361.138	572.547	211.409
2035	361.138	572.547	211.409
2036	361.138	572.547	211.409
2037	361.138	572.547	211.409
2038	361.138	572.547	211.409
2039	361.138	572.547	211.409
2040	361.138	572.547	211.409
2041	361.138	572.547	211.409
2042	361.138	572.547	211.409
2043	361.138	572.547	211.409
2044	361.138	572.547	211.409
2045	361.138	572.547	211.409
2046	361.138	572.547	211.409
2047	361.138	572.547	211.409
2048	361.138	572.547	211.409
2049	361.169	572.578	211.409
2050	361.248	572.657	211.409
2051	361.367	572.776	211.409
2052	361.528	572.937	211.409
2053	361.732	573.141	211.409
2054	361.98	573.389	211.409

1999	155.283	451.592	760.274
2000	156.718	451.875	764.129
2001	158.116	452.15	767.884
2002	159.488	452.42	771.568
2003	159.508	452.707	772.086
2004	158.959	453.002	771.27
2005	158.416	453.295	770.463
2006	157.883	453.581	769.672
2007	157.36	453.863	768.895
2008	156.842	454.141	768.125
2009	156.343	454.41	767.383
2010	155.865	454.667	766.674
2011	155.418	454.882	765.971
2012	155.092	454.777	765.066
2013	550.332	624.233	1035.69
2014	556.151	608.45	1023.47
2015	559.488	580.015	961.499
2016	563.513	555.476	902.892
2017	569.895	538.363	868.601
2018	577.589	521.416	845.474
2019	581.302	508.384	854.045
2020	578.849	502.339	843.187
2021	571.604	500.009	820.661
2022	561.314	501.632	816.252
2023	550.199	508.623	871.197
2024	533.676	507.08	896.299
2025	504.189	502.697	881.31
2026	463.796	498.774	860.303
2027	412.396	496.069	841.459
2028	347.592	493.147	810.087
2029	148.638	323.491	528.769
2030	93.8912	271.669	422.07
2031	98.7114	270.273	395.184
2032	0	0	0
2033	0	0	0
2034	0	0	0
2035	0	0	0
2036	0	0	0
2037	0	0	0
2038	0	0	0
2039	0	0	0
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2042	0	0	0
2043	0	0	0
2044	0	0	0
2045	0	0	0
2046	0	0	0
2047	0	0	0
2048	0	0	0
2049	218.083	549.354	817.799
2050	235.75	550.114	841.49
2051	243.513	551.107	876.584
2052	264.615	552.483	891.742
2053	285.718	553.859	911.884
2054	299.61	555.126	921.267

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010910

2055	362.271	573.68	211.409
2056	362.607	574.016	211.409
2057	362.988	574.396	211.409
2058	363.414	574.822	211.409
2059	363.885	575.294	211.409
2060	364.401	575.81	211.409
2061	364.96	576.369	211.409
2062	365.561	576.97	211.409
2063	366.201	577.61	211.409
2064	366.877	578.285	211.409
2065	367.577	578.986	211.409
2066	368.279	579.688	211.409
2067	368.969	580.378	211.409
2068	369.65	581.059	211.409
2069	370.327	581.736	211.409
2070	371	582.409	211.409
2071	371.671	583.08	211.409
2072	372.339	583.748	211.409
2073	373.007	584.416	211.409
2074	373.673	585.082	211.409
2075	374.339	585.748	211.409
2076	375.005	586.414	211.409
2077	375.67	587.078	211.409
2078	376.334	587.743	211.409
2079	376.997	588.406	211.409
2080	377.659	589.068	211.409
2081	378.321	589.729	211.409
2082	378.981	590.39	211.409
2083	379.64	591.049	211.409
2084	380.298	591.707	211.409
2085	380.955	592.364	211.409
2086	381.612	593.021	211.409
2087	382.268	593.677	211.409
2088	382.923	594.332	211.409
2089	383.578	594.987	211.409
2090	384.232	595.641	211.409
2091	384.885	596.294	211.409
2092	385.538	596.946	211.409
2093	386.19	597.599	211.409
2094	386.841	598.25	211.409
2095	387.492	598.901	211.409
2096	388.143	599.552	211.409
2097	388.795	600.204	211.409
2098	389.447	600.856	211.409
2099	390.101	601.509	211.409
2100	390.755	602.164	211.409
2101	391.41	602.819	211.409
2102	392.066	603.475	211.409
2103	392.723	604.132	211.409
2104	392.549	604.132	211.582
2105	391.574	604.132	212.557
2106	390.66	604.132	213.471
2107	389.808	604.132	214.323
2108	389.02	604.132	215.111
2109	388.294	604.132	215.837
2110	387.632	604.132	216.5

2055	312.753	556.389	929.876
2056	318.549	557.495	930.49
2057	321.284	558.535	927.775
2058	320.539	560.395	936.867
2059	316.021	563.137	958.726
2060	311.443	566.538	972.858
2061	306.525	572.207	962.108
2062	301.694	577.778	951.545
2063	301.269	590.594	958.009
2064	301.546	604.254	966.636
2065	294.91	602.507	960.133
2066	280.558	583.036	936.42
2067	267.652	565.524	915.094
2068	257.615	552.373	896.367
2069	250.018	542.969	879.678
2070	243.081	534.381	864.438
2071	236.781	526.581	850.596
2072	230.521	520.052	838.148
2073	223.24	515.448	826.865
2074	216.204	511	815.962
2075	209.383	506.687	805.393
2076	202.792	502.519	795.178
2077	196.421	498.49	785.305
2078	190.128	494.624	776.756
2079	183.697	490.938	770.89
2080	177.444	487.355	765.186
2081	171.378	483.879	759.654
2082	165.495	480.508	754.287
2083	159.908	477.306	749.19
2084	154.58	474.253	744.331
2085	149.501	471.343	739.698
2086	148.366	468.944	739.016
2087	148.443	466.733	739.542
2088	148.521	464.505	740.072
2089	148.597	462.329	740.59
2090	148.672	460.162	741.106
2091	148.747	458.04	741.611
2092	148.819	455.962	742.106
2093	148.89	453.926	742.59
2094	148.96	451.935	743.064
2095	149.211	450.397	743.967
2096	150.329	450.617	746.968
2097	151.593	450.866	750.365
2098	153.004	451.144	754.155
2099	154.56	451.45	758.334
2100	156.261	451.784	762.9
2101	158.105	452.147	767.853
2102	159.813	452.543	772.538
2103	158.941	453.012	771.244
2104	557.916	602.971	1017.65
2105	560.048	571.844	941.513
2106	564.723	551.787	894.447
2107	571.408	535.123	863.951
2108	578.232	519.159	846.958
2109	581.914	506.233	855.46
2110	578.205	501.605	840.639

118010



SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010941

2111	387.033	604.132	217.099
2112	386.497	604.132	217.634
2113	386.027	604.132	218.105
2114	385.621	604.132	218.51
2115	385.278	604.132	218.853
2116	384.997	604.132	219.134
2117	384.779	604.132	219.352
2118	384.627	604.132	219.504
2119	384.566	604.132	219.565
2120	384.569	604.135	219.565
2121	384.578	604.143	219.565
2122	384.582	604.147	219.565
2123	384.582	604.147	219.565
2124	384.582	604.147	219.565
2125	384.582	604.147	219.565
2126	384.582	604.147	219.565
2127	384.582	604.147	219.565
2128	384.582	604.147	219.565
2129	384.582	604.147	219.565
2130	384.582	604.147	219.565
2131	384.582	604.147	219.565
2132	384.582	604.147	219.565
2133	384.582	604.147	219.565
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2144	384.582	604.147	219.565
2145	384.582	604.147	219.565
2146	384.582	604.147	219.565
2147	384.582	604.147	219.565
2148	384.582	604.147	219.565
2149	384.582	604.147	219.565
2150	384.582	604.147	219.565
2151	384.582	604.147	219.565
2152	384.582	604.147	219.565
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2160	384.582	604.147	219.565
2161	384.582	604.147	219.565
2162	384.582	604.147	219.565
2163	384.582	604.147	219.565
2164	384.582	604.147	219.565
2165	384.582	604.147	219.565
2166	384.582	604.147	219.565

2111	569.946	499.909	815.954
2112	559.484	502.779	825.126
2113	547.462	508.367	875.355
2114	530.939	506.825	900.457
2115	498.628	501.823	876.733
2116	455.963	498.318	857.66
2117	401.662	495.585	836.263
2118	317.817	468.997	769.414
2119	115.058	294.609	481.003
2120	94.6896	271.438	417.617
2121	99.5098	270.042	390.731
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2161	0	0	0
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2163	0	0	0
2164	0	0	0
2165	0	0	0
2166	0	0	0

542040

010942

2167	384.582	604.147	219.565
2168	384.582	604.147	219.565
2169	384.582	604.147	219.565
2170	384.582	604.147	219.565
2171	384.582	604.147	219.565
2172	384.582	604.147	219.565
2173	384.582	604.147	219.565
2174	384.582	604.147	219.565
2175	384.582	604.147	219.565
2176	384.582	604.147	219.565
2177	384.582	604.147	219.565
2178	384.582	604.147	219.565
2179	384.582	604.147	219.565
2180	384.582	604.147	219.565
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2189	384.582	604.147	219.565
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2195	384.582	604.147	219.565
2196	384.582	604.147	219.565
2197	384.582	604.147	219.565
2198	384.582	604.147	219.565
2199	384.582	604.147	219.565
2200	384.582	604.147	219.565
2201	384.582	604.147	219.565
2202	384.582	604.147	219.565
2203	384.582	604.147	219.565
2204	384.582	604.147	219.565
2205	384.582	604.147	219.565
2206	384.582	604.147	219.565
2207	384.582	604.147	219.565
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2209	384.582	604.147	219.565
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2213	384.582	604.147	219.565
2214	384.582	604.147	219.565
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2216	384.582	604.147	219.565
2217	384.582	604.147	219.565
2218	384.582	604.147	219.565
2219	384.582	604.147	219.565
2220	384.582	604.147	219.565
2221	384.582	604.147	219.565
2222	384.582	604.147	219.565

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2169	0	0	0
2170	0	0	0
2171	0	0	0
2172	0	0	0
2173	0	0	0
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2216	0	0	0
2217	0	0	0
2218	0	0	0
2219	0	0	0
2220	0	0	0
2221	0	0	0
2222	0	0	0

2223	384.582	604.147	219.565
2224	384.582	604.147	219.565
2225	384.582	604.147	219.565
2226	384.582	604.147	219.565
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2245	384.582	604.147	219.565
2246	384.582	604.147	219.565
2247	384.582	604.147	219.565
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2249	384.582	604.147	219.565
2250	384.582	604.147	219.565
2251	384.582	604.147	219.565
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2256	384.582	604.147	219.565
2257	384.582	604.147	219.565
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2259	384.582	604.147	219.565
2260	384.582	604.147	219.565
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2276	384.582	604.147	219.565
2277	384.582	604.147	219.565
2278	384.582	604.147	219.565

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000010

010944

2279	384.582	604.147	219.565
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2282	384.582	604.147	219.565
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2297	384.582	604.147	219.565
2298	384.582	604.147	219.565
2299	384.582	604.147	219.565
2300	384.582	604.147	219.565
2301	384.582	604.147	219.565
2302	384.616	604.181	219.565
2303	384.702	604.267	219.565
2304	384.827	604.392	219.565
2305	384.995	604.56	219.565
2306	385.206	604.771	219.565
2307	385.461	605.026	219.565
2308	385.76	605.325	219.565
2309	386.103	605.668	219.565
2310	386.491	606.056	219.565
2311	386.924	606.489	219.565
2312	387.403	606.968	219.565
2313	387.927	607.492	219.565
2314	388.495	608.06	219.565
2315	389.106	608.671	219.565
2316	389.757	609.322	219.565
2317	390.448	610.013	219.565
2318	391.153	610.718	219.565
2319	391.847	611.412	219.565
2320	392.529	612.094	219.565
2321	393.205	612.77	219.565
2322	393.876	613.441	219.565
2323	394.545	614.11	219.565
2324	395.211	614.776	219.565
2325	395.877	615.442	219.565
2326	396.541	616.107	219.565
2327	397.204	616.769	219.565
2328	397.865	617.43	219.565
2329	398.523	618.088	219.565
2330	399.179	618.744	219.565
2331	399.833	619.398	219.565
2332	400.486	620.051	219.565
2333	401.137	620.702	219.565
2334	401.79	621.355	219.565

2279	0	0	0
2280	0	0	0
2281	0	0	0
2282	0	0	0
2283	0	0	0
2284	0	0	0
2285	0	0	0
2286	0	0	0
2287	0	0	0
2288	0	0	0
2289	0	0	0
2290	0	0	0
2291	0	0	0
2292	0	0	0
2293	0	0	0
2294	0	0	0
2295	0	0	0
2296	0	0	0
2297	0	0	0
2298	0	0	0
2299	0	0	0
2300	0	0	0
2301	0	0	0
2302	219.929	549.482	822.012
2303	231.073	550.257	847.45
2304	247.025	551.335	874.92
2305	268.112	552.711	895.079
2306	288.452	554.076	914.122
2307	301.787	555.335	922.694
2308	314.929	556.598	931.302
2309	318.887	557.674	930.123
2310	321.737	558.708	927.326
2311	319.787	560.852	940.505
2312	315.249	563.605	962.459
2313	310.488	567.638	970.772
2314	305.408	573.496	959.665
2315	301.065	580.583	951.686
2316	301.37	595.595	961.167
2317	301.672	610.47	970.561
2318	286.09	590.541	945.56
2319	270.222	569.011	919.341
2320	257.159	551.809	895.365
2321	247.051	539.295	873.159
2322	237.411	527.361	851.98
2323	226.489	517.502	831.899
2324	214.103	509.671	812.707
2325	202.142	502.108	794.17
2326	190.127	494.623	776.755
2327	177.169	487.197	764.935
2328	164.025	479.665	752.946
2329	150.686	472.021	740.779
2330	148.487	465.463	739.844
2331	148.712	459.032	741.375
2332	148.941	452.466	742.938
2333	151.484	450.844	750.072
2334	155.183	451.572	760.007

1636

940010



SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010945

2335	402.445	622.01	219.565
2336	403.102	622.667	219.565
2337	403.76	623.325	219.565
2338	404.42	623.985	219.565
2339	405.08	624.645	219.565
2340	405.74	625.305	219.565
2341	406.399	625.964	219.565
2342	407.057	626.622	219.565
2343	407.713	627.278	219.565
2344	408.366	627.931	219.565
2345	408.82	628.385	219.565
2346	408.809	628.385	219.576
2347	408.155	628.385	220.23
2348	407.122	628.385	221.263
2349	406.084	628.385	222.301
2350	405.05	628.385	223.336
2351	404.03	628.385	224.355
2352	403.045	628.385	225.34
2353	402.111	628.385	226.275
2354	401.231	628.385	227.154
2355	400.41	628.385	227.976
2356	399.646	628.385	228.739
2357	398.942	628.385	229.444
2358	398.298	628.385	230.087
2359	397.715	628.385	230.67
2360	397.195	628.385	231.19
2361	396.74	628.385	231.646
2362	396.349	628.385	232.037
2363	396.02	628.385	232.366
2364	395.753	628.385	232.632
2365	395.55	628.385	232.836
2366	395.418	628.385	232.968
2367	395.377	628.385	233.008
2368	395.387	628.395	233.008
2369	395.391	628.4	233.008
2370	395.391	628.4	233.008
2371	395.391	628.4	233.008
2372	395.391	628.4	233.008
2373	395.391	628.4	233.008
2374	395.391	628.4	233.008
2375	395.391	628.4	233.008
2376	395.391	628.4	233.008
2377	395.391	628.4	233.008
2378	395.391	628.4	233.008
2379	395.391	628.4	233.008
2380	395.391	628.4	233.008
2381	395.391	628.4	233.008
2382	395.391	628.4	233.008
2383	395.391	628.4	233.008
2384	395.391	628.4	233.008
2385	395.391	628.4	233.008
2386	395.411	628.42	233.008
2387	395.469	628.478	233.008
2388	395.564	628.572	233.008
2389	395.699	628.707	233.008
2390	395.877	628.886	233.008

2335	158.887	452.301	769.954
2336	158.82	453.077	771.063
2337	157.359	453.863	768.893
2338	155.923	454.636	766.76
2339	154.805	454.684	764.267
2340	153.864	454.381	761.651
2341	152.946	454.085	759.099
2342	152.02	453.354	756.057
2343	151.058	451.937	752.188
2344	150.105	450.534	748.355
2345	102.048	202.537	399.339
2346	419.975	214.154	474.349
2347	550.315	624.491	1021.48
2348	549.574	626.098	1029.27
2349	550.022	624.987	1033.66
2350	552.25	619.042	1032.06
2351	557.23	605.52	1021.09
2352	559.47	580.282	962.153
2353	562.602	558.254	909.253
2354	567.579	543.322	875.72
2355	574.781	527.897	853.58
2356	579.566	514.476	850.038
2357	580.936	504.761	852.051
2358	577.147	500.4	836.452
2359	567.473	499.76	808.937
2360	556.93	504.501	838.45
2361	543.665	508.013	881.124
2362	524.485	505.888	898.013
2363	490.911	500.61	870.383
2364	445.097	497.719	854.275
2365	386.768	494.914	829.053
2366	271.213	428.915	703.124
2367	90.6169	272.618	440.333
2368	95.7974	271.117	411.438
2369	0	0	0
2370	0	0	0
2371	0	0	0
2372	0	0	0
2373	0	0	0
2374	0	0	0
2375	0	0	0
2376	0	0	0
2377	0	0	0
2378	0	0	0
2379	0	0	0
2380	0	0	0
2381	0	0	0
2382	0	0	0
2383	0	0	0
2384	0	0	0
2385	0	0	0
2386	211.347	548.885	802.421
2387	222.49	549.66	827.858
2388	234.055	550.464	854.257
2389	251.897	551.651	879.549
2390	273.09	553.025	899.682

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010946

2391	396.099	629.107	233.008
2392	396.364	629.372	233.008
2393	396.672	629.681	233.008
2394	397.026	630.034	233.008
2395	397.424	630.433	233.008
2396	397.868	630.877	233.008
2397	398.358	631.366	233.008
2398	398.892	631.9	233.008
2399	399.47	632.478	233.008
2400	400.09	633.098	233.008
2401	400.751	633.759	233.008
2402	401.446	634.455	233.008
2403	402.15	635.158	233.008
2404	402.84	635.848	233.008
2405	403.52	636.528	233.008
2406	404.194	637.202	233.008
2407	404.864	637.872	233.008
2408	405.531	638.539	233.008
2409	406.197	639.205	233.008
2410	406.861	639.87	233.008
2411	407.524	640.532	233.008
2412	408.184	641.192	233.008
2413	408.842	641.85	233.008
2414	409.497	642.506	233.008
2415	410.151	643.16	233.008
2416	410.803	643.811	233.008
2417	411.455	644.463	233.008
2418	412.108	645.116	233.008
2419	412.762	645.771	233.008
2420	413.419	646.427	233.008
2421	414.076	647.084	233.008
2422	414.735	647.743	233.008
2423	415.395	648.403	233.008
2424	416.055	649.063	233.008
2425	416.715	649.723	233.008
2426	417.374	650.383	233.008
2427	418.033	651.041	233.008
2428	418.69	651.699	233.008
2429	419.346	652.354	233.008
2430	419.999	653.007	233.008
2431	420.65	653.658	233.008
2432	420.914	653.922	233.008
2433	420.791	653.922	233.131
2434	420.668	653.922	233.254
2435	420.091	653.922	233.831
2436	419.058	653.922	234.863
2437	418.021	653.922	235.901
2438	416.988	653.922	236.934
2439	415.974	653.922	237.948
2440	415.002	653.922	238.919
2441	414.089	653.922	239.833
2442	413.236	653.922	240.686
2443	412.445	653.922	241.477
2444	411.716	653.922	242.206
2445	411.05	653.922	242.872
2446	410.448	653.922	243.474

2391	291.66	554.362	916.06
2392	304.808	555.626	924.673
2393	316.894	556.866	932.132
2394	319.631	557.907	929.416
2395	322.366	558.946	926.702
2396	318.744	561.485	945.552
2397	314.207	564.237	967.502
2398	309.32	568.985	968.218
2399	304.241	574.841	957.113
2400	301.136	584.045	953.873
2401	301.44	599.027	963.335
2402	299.022	608.087	966.928
2403	281.889	584.84	938.618
2404	265.768	562.969	911.982
2405	253.549	547.34	887.436
2406	242.846	534.09	863.922
2407	232.415	521.25	841.083
2408	218.21	512.268	819.071
2409	204.212	503.417	797.378
2410	190.409	494.785	777.013
2411	175.865	486.45	763.746
2412	161.526	478.233	750.667
2413	148.321	470.216	738.713
2414	148.545	463.805	740.239
2415	148.766	457.492	741.742
2416	148.981	451.317	743.211
2417	151.75	450.897	750.786
2418	154.938	451.524	759.349
2419	158.073	452.141	767.768
2420	159.378	452.777	771.892
2421	158.139	453.443	770.052
2422	156.932	454.093	768.259
2423	155.748	454.73	766.5
2424	154.854	454.7	764.405
2425	154.066	454.446	762.214
2426	153.286	454.195	760.046
2427	152.518	453.947	757.912
2428	151.709	452.895	754.805
2429	150.901	451.706	751.557
2430	150.107	450.537	748.364
2431	149.327	449.388	745.225
2432	299.692	165.686	457.479
2433	299.692	165.686	457.479
2434	299.692	165.686	457.479
2435	550.389	624.329	1020.69
2436	549.618	626.003	1028.81
2437	550.04	624.941	1033.79
2438	552.927	617.204	1030.57
2439	558.08	600.573	1011.78
2440	560.109	570.958	939.345
2441	564.678	551.923	894.759
2442	571.143	535.69	864.766
2443	578.052	519.791	846.542
2444	581.714	506.938	854.996
2445	578.417	501.847	841.479
2446	570.492	499.942	817.506

1638

1940



SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010947

2447	409.909	653.922	244.013
2448	409.434	653.922	244.488
2449	409.025	653.922	244.897
2450	408.679	653.922	245.243
2451	408.394	653.922	245.528
2452	408.173	653.922	245.749
2453	408.016	653.922	245.906
2454	407.949	653.922	245.973
2455	407.949	653.922	245.973
2456	407.957	653.931	245.973
2457	407.961	653.935	245.973
2458	407.961	653.935	245.973
2459	407.961	653.935	245.973
2460	407.961	653.935	245.973
2461	407.961	653.935	245.973
2462	407.961	653.935	245.973
2463	407.961	653.935	245.973
2464	407.961	653.935	245.973
2465	407.961	653.935	245.973
2466	407.961	653.935	245.973
2467	407.961	653.935	245.973
2468	407.961	653.935	245.973
2469	407.961	653.935	245.973
2470	407.961	653.935	245.973
2471	407.961	653.935	245.973
2472	407.961	653.935	245.973
2473	407.961	653.935	245.973
2474	407.994	653.967	245.973
2475	408.078	654.051	245.973
2476	408.201	654.174	245.973
2477	408.367	654.34	245.973
2478	408.576	654.549	245.973
2479	408.828	654.801	245.973
2480	409.124	655.097	245.973
2481	409.465	655.438	245.973
2482	409.85	655.824	245.973
2483	410.281	656.255	245.973
2484	410.758	656.731	245.973
2485	411.279	657.253	245.973
2486	411.845	657.818	245.973
2487	412.454	658.427	245.973
2488	413.103	659.076	245.973
2489	413.791	659.765	245.973
2490	414.496	660.469	245.973
2491	415.189	661.163	245.973
2492	415.871	661.844	245.973
2493	416.546	662.52	245.973
2494	417.217	663.19	245.973
2495	417.884	663.858	245.973
2496	418.55	664.524	245.973
2497	419.215	665.188	245.973
2498	419.877	665.85	245.973
2499	420.537	666.51	245.973
2500	421.194	667.167	245.973
2501	421.848	667.821	245.973
2502	422.5	668.473	245.973

2447	560.094	502.431	822.43
2448	548.365	508.452	873.984
2449	531.841	506.909	899.086
2450	500.468	502.158	878.608
2451	458.546	498.46	858.465
2452	405.202	495.745	837.976
2453	328.892	478.522	785.167
2454	126.131	304.133	496.754
2455	94.4263	271.514	419.085
2456	99.2465	270.118	392.2
2457	0	0	0
2458	0	0	0
2459	0	0	0
2460	0	0	0
2461	0	0	0
2462	0	0	0
2463	0	0	0
2464	0	0	0
2465	0	0	0
2466	0	0	0
2467	0	0	0
2468	0	0	0
2469	0	0	0
2470	0	0	0
2471	0	0	0
2472	0	0	0
2473	0	0	0
2474	219.32	549.44	820.623
2475	236.259	550.202	844.509
2476	245.845	551.26	873.825
2477	266.959	552.636	893.979
2478	287.734	554.007	913.649
2479	301.069	555.266	922.223
2480	314.211	556.529	930.832
2481	318.733	557.617	930.274
2482	321.553	558.653	927.509
2483	320.035	560.701	939.305
2484	315.497	563.454	961.26
2485	310.766	567.318	971.379
2486	305.685	573.176	960.271
2487	301.049	579.759	951.166
2488	301.354	594.779	960.652
2489	301.657	609.699	970.075
2490	286.596	591.228	946.397
2491	269.974	568.675	918.932
2492	256.183	550.601	893.221
2493	245.01	536.768	868.675
2494	234.041	523.189	844.577
2495	219.51	513.09	821.084
2496	204.431	503.556	797.719
2497	189.172	494.076	775.884
2498	172.894	484.748	761.036
2499	156.526	475.368	746.106
2500	148.439	466.83	739.519
2501	148.702	459.306	741.31
2502	148.958	451.974	743.095

1633

819018

2503	423.152	669.125	245.973
2504	423.805	669.778	245.973
2505	424.46	670.433	245.973
2506	425.117	671.09	245.973
2507	425.775	671.748	245.973
2508	426.433	672.407	245.973
2509	427.093	673.066	245.973
2510	427.754	673.727	245.973
2511	428.414	674.387	245.973
2512	428.23	674.387	246.157
2513	427.217	674.387	247.17
2514	426.247	674.387	248.141
2515	425.334	674.387	249.053
2516	424.483	674.387	249.905
2517	423.691	674.387	250.696
2518	422.961	674.387	251.427
2519	422.291	674.387	252.097
2520	421.683	674.387	252.705
2521	421.137	674.387	253.25
2522	420.655	674.387	253.732
2523	420.239	674.387	254.149
2524	419.885	674.387	254.502
2525	419.594	674.387	254.794
2526	419.365	674.387	255.022
2527	419.199	674.387	255.188
2528	419.12	674.387	255.267
2529	419.113	674.387	255.274
2530	419.122	674.396	255.274
2531	419.126	674.4	255.274
2532	419.126	674.4	255.274
2533	419.126	674.4	255.274
2534	419.126	674.4	255.274
2535	419.126	674.4	255.274
2536	419.126	674.4	255.274
2537	419.126	674.4	255.274
2538	419.126	674.4	255.274
2539	419.126	674.4	255.274
2540	419.126	674.4	255.274
2541	419.126	674.4	255.274
2542	419.126	674.4	255.274
2543	419.126	674.4	255.274
2544	419.126	674.4	255.274
2545	419.126	674.4	255.274
2546	419.126	674.4	255.274
2547	419.126	674.4	255.274
2548	419.157	674.431	255.274
2549	419.237	674.511	255.274
2550	419.356	674.629	255.274
2551	419.517	674.791	255.274
2552	419.721	674.995	255.274
2553	419.968	675.242	255.274
2554	420.259	675.533	255.274
2555	420.595	675.869	255.274
2556	420.976	676.249	255.274
2557	421.401	676.675	255.274
2558	421.873	677.147	255.274

2503	151.938	450.934	751.29
2504	155.489	451.633	760.827
2505	158.798	452.284	769.715
2506	159.087	452.933	771.461
2507	157.929	453.557	769.74
2508	156.867	454.128	768.162
2509	155.9	454.648	766.725
2510	155.151	454.796	765.229
2511	154.54	454.599	763.532
2512	552.914	617.24	1030.6
2513	558.12	599.99	1010.36
2514	560.167	570.113	937.279
2515	564.808	551.529	893.857
2516	571.214	535.537	864.546
2517	577.994	519.996	846.408
2518	581.534	507.569	854.581
2519	578.721	502.193	842.681
2520	571.474	500.001	820.293
2521	561.296	501.644	816.343
2522	550.225	508.596	870.95
2523	533.709	507.083	896.249
2524	504.256	502.708	881.365
2525	463.889	498.754	860.13
2526	412.526	496.075	841.522
2527	347.722	493.153	810.15
2528	149.044	323.84	529.347
2529	93.8816	271.672	422.124
2530	98.7017	270.276	395.238
2531	0	0	0
2532	0	0	0
2533	0	0	0
2534	0	0	0
2535	0	0	0
2536	0	0	0
2537	0	0	0
2538	0	0	0
2539	0	0	0
2540	0	0	0
2541	0	0	0
2542	0	0	0
2543	0	0	0
2544	0	0	0
2545	0	0	0
2546	0	0	0
2547	0	0	0
2548	218.061	549.352	817.748
2549	229.204	550.127	843.185
2550	243.47	551.104	871.544
2551	264.668	552.479	891.681
2552	285.675	553.856	911.844
2553	299.583	555.124	921.25
2554	312.726	556.387	929.859
2555	318.543	557.493	930.495
2556	321.234	558.536	927.822
2557	320.548	560.39	936.823
2558	316.01	563.143	958.78

012010



2559	422.389	677.663	255.274
2560	422.95	678.224	255.274
2561	423.554	678.828	255.274
2562	424.199	679.472	255.274
2563	424.883	680.157	255.274
2564	425.586	680.86	255.274
2565	426.282	681.556	255.274
2566	426.967	682.24	255.274
2567	427.644	682.918	255.274
2568	428.317	683.591	255.274
2569	428.987	684.261	255.274
2570	429.654	684.928	255.274
2571	430.321	685.594	255.274
2572	430.986	686.26	255.274
2573	431.65	686.924	255.274
2574	432.313	687.587	255.274
2575	432.974	688.247	255.274
2576	433.633	688.906	255.274
2577	434.29	689.564	255.274
2578	434.945	690.219	255.274
2579	435.305	690.578	255.274
2580	435.362	690.636	255.274
2581	435.419	690.693	255.274
2582	435.479	690.753	255.274
2583	435.526	690.8	255.274
2584	435.572	690.845	255.274
2585	435.604	690.878	255.274
2586	435.619	690.893	255.274
2587	435.635	690.909	255.274
2588	435.65	690.924	255.274
2589	435.666	690.94	255.274
2590	435.682	690.955	255.274
2591	435.706	690.98	255.274
2592	435.747	691.021	255.274
2593	435.784	691.057	255.274
2594	435.812	691.086	255.274
2595	435.847	691.121	255.274
2596	435.891	691.164	255.274
2597	435.94	691.214	255.274
2598	436.293	691.567	255.274
2599	436.183	691.567	255.384
2600	435.341	691.567	256.226
2601	434.563	691.567	257.004
2602	433.847	691.567	257.72
2603	433.194	691.567	258.373
2604	432.605	691.567	258.962
2605	432.079	691.567	259.488
2606	431.618	691.567	259.949
2607	431.222	691.567	260.345
2608	430.889	691.567	260.678
2609	430.617	691.567	260.95
2610	430.409	691.567	261.158
2611	430.27	691.567	261.297
2612	430.225	691.567	261.341
2613	430.235	691.577	261.341
2614	430.24	691.582	261.341

2559	311.34	566.656	972.635
2560	306.259	572.514	961.526
2561	301.014	578.053	950.088
2562	301.319	593.088	959.584
2563	301.622	607.986	968.993
2564	289.084	594.603	950.508
2565	273.871	573.963	925.371
2566	260.298	555.695	902.262
2567	250.775	543.906	881.341
2568	241.743	532.723	861.497
2569	233.18	522.123	842.685
2570	221.975	514.648	824.905
2571	210.59	507.45	807.263
2572	199.601	500.502	790.234
2573	188.755	493.837	775.504
2574	177.671	487.485	765.394
2575	166.828	481.272	755.503
2576	156.134	475.144	745.748
2577	148.35	469.392	738.909
2578	148.52	464.535	740.065
2579	91.5477	149.101	358.309
2580	91.3708	146.944	357.588
2581	91.5611	149.264	358.364
2582	91.4214	147.562	357.794
2583	76.7258	123.201	300.27
2584	91.3502	146.693	357.504
2585	28.8587	46.3394	112.94
2586	28.8587	46.3394	112.94
2587	28.8587	46.3394	112.94
2588	28.8587	46.3394	112.94
2589	28.8587	46.3394	112.94
2590	30.2729	48.6102	118.475
2591	60.8815	97.7594	238.263
2592	91.3499	146.69	357.503
2593	45.5172	73.0884	178.134
2594	59.485	95.517	232.798
2595	73.4528	117.946	287.462
2596	87.4206	140.374	342.125
2597	91.3951	147.241	357.687
2598	148.674	460.12	741.116
2599	565.583	549.269	889.008
2600	572.612	532.511	860.079
2601	578.8	517.165	848.27
2602	581.548	505.46	854.539
2603	577.605	500.922	838.266
2604	568.401	499.816	811.571
2605	557.799	503.933	834.053
2606	544.912	508.123	879.194
2607	527.038	506.347	900.529
2608	493.449	501.009	872.471
2609	448.67	497.916	855.388
2610	391.666	495.135	831.424
2611	286.537	442.094	724.921
2612	90.0106	272.794	443.715
2613	95.4332	271.223	413.47
2614	0	0	0

658010

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010950

2615	430.24	691.582	261.341
2616	430.24	691.582	261.341
2617	430.24	691.582	261.341
2618	430.24	691.582	261.341
2619	430.24	691.582	261.341
2620	430.24	691.582	261.341
2621	430.24	691.582	261.341
2622	430.24	691.582	261.341
2623	430.24	691.582	261.341
2624	430.24	691.582	261.341
2625	430.24	691.582	261.341
2626	430.24	691.582	261.341
2627	430.24	691.582	261.341
2628	430.24	691.582	261.341
2629	430.24	691.582	261.341
2630	430.24	691.582	261.341
2631	430.259	691.6	261.341
2632	430.314	691.656	261.341
2633	430.406	691.747	261.341
2634	430.537	691.879	261.341
2635	430.712	692.054	261.341
2636	430.931	692.272	261.341
2637	431.192	692.534	261.341
2638	431.498	692.839	261.341
2639	431.848	693.189	261.341
2640	432.244	693.585	261.341
2641	432.686	694.028	261.341
2642	433.174	694.516	261.341
2643	433.707	695.049	261.341
2644	434.284	695.625	261.341
2645	434.902	696.244	261.341
2646	435.562	696.903	261.341
2647	436.257	697.599	261.341
2648	436.961	698.303	261.341
2649	437.651	698.992	261.341
2650	438.33	699.672	261.341
2651	439.004	700.345	261.341
2652	439.673	701.015	261.341
2653	440.34	701.682	261.341
2654	441.006	702.347	261.341
2655	441.67	703.012	261.341
2656	442.332	703.674	261.341
2657	442.992	704.333	261.341
2658	443.649	704.99	261.341
2659	443.974	705.315	261.341
2660	443.936	705.315	261.379
2661	443.867	705.315	261.448
2662	443.799	705.315	261.516
2663	443.73	705.315	261.585
2664	443.661	705.315	261.654
2665	443.593	705.315	261.723
2666	443.524	705.315	261.791
2667	443.455	705.315	261.86
2668	443.387	705.315	261.929
2669	443.305	705.315	262.01
2670	443.21	705.315	262.105

2615	0	0	0
2616	0	0	0
2617	0	0	0
2618	0	0	0
2619	0	0	0
2620	0	0	0
2621	0	0	0
2622	0	0	0
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2624	0	0	0
2625	0	0	0
2626	0	0	0
2627	0	0	0
2628	0	0	0
2629	0	0	0
2630	0	0	0
2631	210.505	548.827	800.498
2632	221.648	549.601	825.936
2633	233.012	550.392	851.877
2634	250.295	551.547	878.027
2635	271.489	552.921	898.161
2636	290.666	554.267	915.409
2637	303.816	555.53	924.022
2638	316.695	556.79	932.329
2639	319.456	557.84	929.59
2640	322.232	558.896	926.835
2641	318.864	561.411	944.968
2642	314.318	564.17	966.965
2643	309.496	568.782	968.602
2644	304.43	574.623	957.527
2645	301.126	583.564	953.569
2646	301.435	598.759	963.165
2647	299.047	608.12	966.968
2648	281.669	584.542	938.255
2649	265.363	562.419	911.312
2650	252.956	546.606	886.132
2651	241.844	532.849	861.719
2652	230.446	520.004	838.031
2653	215.649	510.648	815.102
2654	201.135	501.471	792.611
2655	186.724	492.673	773.651
2656	172.067	484.274	760.281
2657	157.849	476.127	747.313
2658	148.375	468.684	739.078
2659	33.3701	33.2206	81.0986
2660	231.495	184.79	443.663
2661	231.495	184.79	443.663
2662	231.495	184.79	443.663
2663	231.495	184.79	443.663
2664	231.495	184.79	443.663
2665	231.495	184.79	443.663
2666	231.495	184.79	443.663
2667	231.495	184.79	443.663
2668	231.495	184.79	443.663
2669	268.137	188.108	445.563
2670	270.692	188.614	445.836

1642

125019

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010951

2671	443.119	705.315	262.196
2672	443.041	705.315	262.274
2673	443.083	705.357	262.274
2674	443.488	705.762	262.274
2675	444.14	706.414	262.274
2676	444.791	707.065	262.274
2677	445.444	707.718	262.274
2678	446.098	708.372	262.274
2679	446.753	709.027	262.274
2680	447.409	709.683	262.274
2681	448.066	710.34	262.274
2682	448.725	710.999	262.274
2683	449.384	711.658	262.274
2684	450.044	712.318	262.274
2685	450.704	712.978	262.274
2686	451.364	713.639	262.274
2687	452.024	714.298	262.274
2688	452.683	714.957	262.274
2689	453.342	715.616	262.274
2690	454	716.274	262.274
2691	453.811	716.274	262.463
2692	452.774	716.274	263.501
2693	451.741	716.274	264.533
2694	450.732	716.274	265.542
2695	449.786	716.274	266.488
2696	449.39	716.274	266.884
2697	449.504	716.388	266.884
2698	449.634	716.519	266.884
2699	449.781	716.665	266.884
2700	449.961	716.846	266.884
2701	450.181	717.065	266.884
2702	450.416	717.301	266.884
2703	450.658	717.542	266.884
2704	450.905	717.789	266.884
2705	451.143	718.027	266.884
2706	451.37	718.254	266.884
2707	451.597	718.481	266.884
2708	451.824	718.708	266.884
2709	452.05	718.935	266.884
2710	452.277	719.162	266.884
2711	452.504	719.388	266.884
2712	452.731	719.615	266.884
2713	452.958	719.842	266.884
2714	453.185	720.069	266.884
2715	453.411	720.296	266.884
2716	453.638	720.523	266.884
2717	453.865	720.749	266.884
2718	454.092	720.976	266.884
2719	454.316	721.201	266.884
2720	454.532	721.416	266.884
2721	454.734	721.619	266.884
2722	454.385	721.619	267.234
2723	453.521	721.619	268.098
2724	452.723	721.619	268.896
2725	451.99	721.619	269.629
2726	451.321	721.619	270.297

2671	254.724	186.665	444.751
2672	236.413	185.187	443.893
2673	94.1769	174.71	366.971
2674	148.753	457.849	741.657
2675	148.95	452.216	742.997
2676	150.874	450.724	748.433
2677	153.581	451.257	755.704
2678	156.143	451.761	762.584
2679	158.577	452.24	769.122
2680	159.459	452.734	772.013
2681	158.503	453.248	770.592
2682	157.562	453.754	769.195
2683	156.638	454.251	767.821
2684	155.729	454.74	766.471
2685	155.027	454.756	764.885
2686	154.424	454.562	763.209
2687	153.832	454.371	761.562
2688	153.249	454.183	759.942
2689	152.676	453.998	758.35
2690	152.089	453.456	756.337
2691	549.674	625.883	1028.23
2692	550.048	624.924	1033.83
2693	553.342	616.076	1029.65
2694	558.349	596.646	1002.18
2695	562.882	545.272	900.755
2696	101.881	155.959	368.464
2697	102.244	160.642	370.959
2698	102.667	165.643	373.719
2699	103.186	171.434	376.745
2700	105.033	192.138	386.859
2701	106.242	203.94	392.987
2702	106.541	206.671	394.461
2703	106.853	209.458	395.986
2704	107.165	212.244	397.512
2705	105.972	201.298	391.615
2706	105.972	201.298	391.615
2707	105.972	201.298	391.615
2708	105.972	201.298	391.615
2709	105.972	201.298	391.615
2710	105.972	201.298	391.615
2711	105.972	201.298	391.615
2712	105.972	201.298	391.615
2713	105.972	201.298	391.615
2714	105.972	201.298	391.615
2715	105.972	201.298	391.615
2716	105.972	201.298	391.615
2717	105.972	201.298	391.615
2718	105.972	201.298	391.615
2719	105.733	198.965	390.404
2720	105.151	193.29	387.457
2721	104.64	187.897	384.787
2722	563.579	555.276	902.436
2723	570.075	537.977	868.047
2724	577.741	520.883	845.824
2725	581.522	507.609	854.555
2726	578.541	501.988	841.969

238970

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010952

2727	450.717	721.619	270.901
2728	450.177	721.619	271.441
2729	449.702	721.619	271.916
2730	449.293	721.619	272.326
2731	448.946	721.619	272.673
2732	448.661	721.619	272.958
2733	448.439	721.619	273.18
2734	448.281	721.619	273.337
2735	448.214	721.619	273.405
2736	448.213	721.619	273.406
2737	448.222	721.628	273.406
2738	448.226	721.632	273.406
2739	448.226	721.632	273.406
2740	448.226	721.632	273.406
2741	448.226	721.632	273.406
2742	448.226	721.632	273.406
2743	448.226	721.632	273.406
2744	448.226	721.632	273.406
2745	448.226	721.632	273.406
2746	448.226	721.632	273.406
2747	448.226	721.632	273.406
2748	448.226	721.632	273.406
2749	448.226	721.632	273.406
2750	448.226	721.632	273.406
2751	448.226	721.632	273.406
2752	448.226	721.632	273.406
2753	448.226	721.632	273.406
2754	448.226	721.632	273.406
2755	448.259	721.664	273.406
2756	448.342	721.748	273.406
2757	448.465	721.871	273.406
2758	448.631	722.036	273.406
2759	448.839	722.245	273.406
2760	449.091	722.497	273.406
2761	449.387	722.792	273.406
2762	449.727	723.133	273.406
2763	450.112	723.518	273.406
2764	450.543	723.949	273.406
2765	451.019	724.425	273.406
2766	451.54	724.946	273.406
2767	452.105	725.511	273.406
2768	452.714	726.119	273.406
2769	453.363	726.769	273.406
2770	454.051	727.457	273.406
2771	454.755	728.161	273.406
2772	455.45	728.855	273.406
2773	456.132	729.538	273.406
2774	456.808	730.214	273.406
2775	457.48	730.886	273.406
2776	458.148	731.554	273.406
2777	458.815	732.221	273.406
2778	459.481	732.886	273.406
2779	460.145	733.551	273.406
2780	460.807	734.213	273.406
2781	461.467	734.873	273.406
2782	462.125	735.531	273.406

2727	570.674	499.953	818.023
2728	560.197	502.311	821.503
2729	548.485	508.441	873.651
2730	531.964	506.92	898.899
2731	500.712	502.151	878.448
2732	458.898	498.479	858.575
2733	405.684	495.767	838.21
2734	330.401	479.821	787.315
2735	127.641	305.431	498.901
2736	94.3904	271.525	419.286
2737	99.2106	270.128	392.4
2738	0	0	0
2739	0	0	0
2740	0	0	0
2741	0	0	0
2742	0	0	0
2743	0	0	0
2744	0	0	0
2745	0	0	0
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2748	0	0	0
2749	0	0	0
2750	0	0	0
2751	0	0	0
2752	0	0	0
2753	0	0	0
2754	0	0	0
2755	219.237	549.434	820.433
2756	236.225	550.196	844.306
2757	245.688	551.25	873.675
2758	266.906	552.624	893.807
2759	287.636	553.997	913.585
2760	300.971	555.257	922.159
2761	313.924	556.529	930.887
2762	318.832	557.603	930.209
2763	321.568	558.643	927.494
2764	320.069	560.681	939.142
2765	315.531	563.434	961.097
2766	310.804	567.274	971.461
2767	305.723	573.132	960.354
2768	301.046	579.646	951.095
2769	301.351	594.668	960.581
2770	301.654	609.551	969.981
2771	287.111	591.927	947.248
2772	271.11	570.216	920.808
2773	257.651	552.418	896.447
2774	247.344	539.658	873.803
2775	237.445	527.403	852.055
2776	226.089	517.25	831.28
2777	213.165	509.078	811.253
2778	200.582	501.121	791.753
2779	188.03	493.421	774.842
2780	175.092	486.007	763.041
2781	162.413	478.742	751.476
2782	149.986	471.621	740.141

010823

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010953

2783	462.782	736.187	273.406
2784	463.436	736.842	273.406
2785	464.089	737.495	273.406
2786	464.74	738.146	273.406
2787	465.392	738.798	273.406
2788	466.045	739.451	273.406
2789	466.699	740.105	273.406
2790	467.355	740.761	273.406
2791	468.012	741.418	273.406
2792	468.67	742.076	273.406
2793	469.329	742.735	273.406
2794	469.989	743.395	273.406
2795	470.649	744.055	273.406
2796	471.31	744.715	273.406
2797	471.969	745.375	273.406
2798	472.628	746.034	273.406
2799	473.287	746.693	273.406
2800	473.945	747.351	273.406
2801	474.601	748.007	273.406
2802	475.255	748.661	273.406
2803	475.908	749.313	273.406
2804	476.559	749.964	273.406
2805	476.924	750.33	273.406
2806	477.012	750.418	273.406
2807	477.116	750.522	273.406
2808	477.231	750.637	273.406
2809	477.352	750.757	273.406
2810	477.482	750.888	273.406
2811	477.628	751.034	273.406
2812	477.191	751.034	273.843
2813	476.159	751.034	274.875
2814	475.122	751.034	275.912
2815	474.089	751.034	276.945
2816	473.079	751.034	277.955
2817	472.115	751.034	278.919
2818	471.211	751.034	279.823
2819	470.371	751.034	280.663
2820	469.594	751.034	281.44
2821	468.879	751.034	282.155
2822	468.228	751.034	282.806
2823	467.64	751.034	283.394
2824	467.116	751.034	283.918
2825	466.657	751.034	284.377
2826	466.263	751.034	284.771
2827	465.931	751.034	285.103
2828	465.661	751.034	285.373
2829	465.454	751.034	285.58
2830	465.318	751.034	285.717
2831	465.274	751.034	285.76
2832	465.284	751.044	285.76
2833	465.289	751.049	285.76
2834	465.289	751.049	285.76
2835	465.289	751.049	285.76
2836	465.289	751.049	285.76
2837	465.289	751.049	285.76
2838	465.289	751.049	285.76

2783	148.475	465.814	739.761
2784	148.666	460.333	741.065
2785	148.853	454.991	742.337
2786	149.322	450.419	744.265
2787	152.052	450.956	751.597
2788	154.73	451.483	758.79
2789	157.358	452.001	765.849
2790	159.876	452.509	772.633
2791	158.841	453.066	771.095
2792	157.824	453.613	769.583
2793	156.823	454.151	768.097
2794	155.84	454.681	766.636
2795	155.057	454.766	764.969
2796	154.413	454.558	763.179
2797	153.78	454.354	761.419
2798	153.157	454.153	759.687
2799	152.539	453.954	757.969
2800	151.891	453.164	755.54
2801	151.241	452.207	752.925
2802	150.606	451.271	750.369
2803	149.996	450.372	747.913
2804	149.411	449.511	745.56
2805	95.6312	133.585	377.889
2806	95.8973	137.462	378.788
2807	96.1909	141.628	379.777
2808	96.4084	144.476	380.506
2809	96.4084	144.476	380.506
2810	96.94	151.198	382.284
2811	97.3432	155.995	383.629
2812	550.499	624.091	1019.54
2813	549.738	625.742	1027.54
2814	550.011	625.012	1033.6
2815	553.145	616.611	1030.09
2816	558.294	597.462	1004.17
2817	560.428	566.303	927.96
2818	565.696	548.82	887.654
2819	572.8	532.107	859.494
2820	578.92	516.922	849.042
2821	581.399	505.244	853.279
2822	577.512	500.816	837.897
2823	568.161	499.802	810.889
2824	557.535	504.105	835.388
2825	544.517	508.092	879.83
2826	526.217	506.16	899.438
2827	492.647	500.925	872.155
2828	447.535	497.853	855.035
2829	390.11	495.064	830.671
2830	281.671	437.909	717.999
2831	90.2031	272.738	442.641
2832	95.5488	271.189	412.824
2833	0	0	0
2834	0	0	0
2835	0	0	0
2836	0	0	0
2837	0	0	0
2838	0	0	0

1645

400010

010954

2839	465.289	751.049	285.76
2840	465.289	751.049	285.76
2841	465.289	751.049	285.76
2842	465.289	751.049	285.76
2843	465.289	751.049	285.76
2844	465.289	751.049	285.76
2845	465.289	751.049	285.76
2846	465.289	751.049	285.76
2847	465.289	751.049	285.76
2848	465.289	751.049	285.76
2849	465.289	751.049	285.76
2850	465.308	751.068	285.76
2851	465.364	751.124	285.76
2852	465.457	751.217	285.76
2853	465.589	751.349	285.76
2854	465.765	751.525	285.76
2855	465.984	751.744	285.76
2856	466.247	752.007	285.76
2857	466.553	752.313	285.76
2858	466.904	752.664	285.76
2859	467.301	753.061	285.76
2860	467.742	753.502	285.76
2861	468.229	753.989	285.76
2862	468.761	754.521	285.76
2863	469.337	755.097	285.76
2864	469.955	755.715	285.76
2865	470.613	756.373	285.76
2866	471.308	757.068	285.76
2867	472.013	757.773	285.76
2868	472.704	758.464	285.76
2869	473.385	759.145	285.76
2870	474.06	759.82	285.76
2871	474.731	760.491	285.76
2872	475.399	761.159	285.76
2873	476.066	761.826	285.76
2874	476.731	762.491	285.76
2875	477.395	763.155	285.76
2876	478.058	763.818	285.76
2877	478.718	764.478	285.76
2878	479.377	765.137	285.76
2879	480.034	765.794	285.76
2880	480.689	766.449	285.76
2881	481.343	767.102	285.76
2882	481.995	767.755	285.76
2883	482.646	768.406	285.76
2884	483.298	769.058	285.76
2885	483.952	769.712	285.76
2886	484.606	770.366	285.76
2887	485.263	771.023	285.76
2888	485.92	771.68	285.76
2889	486.579	772.339	285.76
2890	487.238	772.998	285.76
2891	487.899	773.659	285.76
2892	488.559	774.319	285.76
2893	489.218	774.978	285.76
2894	489.877	775.637	285.76

2839	0	0	0
2840	0	0	0
2841	0	0	0
2842	0	0	0
2843	0	0	0
2844	0	0	0
2845	0	0	0
2846	0	0	0
2847	0	0	0
2848	0	0	0
2849	0	0	0
2850	210.772	548.845	801.109
2851	221.915	549.62	826.546
2852	233.343	550.415	852.633
2853	250.763	551.58	878.519
2854	271.998	552.954	898.644
2855	290.981	554.297	915.615
2856	304.13	555.561	924.228
2857	316.753	556.812	932.272
2858	319.39	557.858	929.63
2859	322.225	558.893	926.842
2860	318.989	561.344	944.455
2861	314.441	564.095	966.37
2862	309.582	568.683	968.791
2863	304.503	574.54	957.686
2864	301.12	583.269	953.383
2865	301.424	598.257	962.848
2866	300.048	609.479	968.624
2867	283.174	586.584	940.741
2868	267.516	565.34	914.87
2869	255.321	549.534	891.329
2870	245.299	537.126	869.309
2871	235.74	525.292	848.308
2872	224.249	516.086	828.428
2873	211.941	508.304	809.357
2874	200.062	500.793	790.947
2875	188.325	493.59	775.111
2876	176.342	486.723	764.181
2877	164.718	480.063	753.579
2878	153.444	473.602	743.294
2879	148.4	467.962	739.25
2880	148.573	463.012	740.428
2881	148.743	458.148	741.585
2882	148.913	453.264	742.748
2883	150.092	450.57	746.333
2884	152.758	451.095	753.492
2885	155.458	451.627	760.746
2886	158.196	452.165	768.098
2887	159.454	452.736	772.005
2888	158.302	453.356	770.293
2889	157.139	453.982	768.566
2890	155.992	454.598	766.863
2891	155.048	454.763	764.943
2892	154.288	454.518	762.829
2893	153.554	454.281	760.789
2894	152.866	454.059	758.878

1646

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010955

2895	490.536	776.295	285.76
2896	491.192	776.952	285.76
2897	491.848	777.608	285.76
2898	492.501	778.261	285.76
2899	493.154	778.914	285.76
2900	493.805	779.564	285.76
2901	494.211	779.971	285.76
2902	494.375	780.135	285.76
2903	494.538	780.298	285.76
2904	494.701	780.461	285.76
2905	494.865	780.625	285.76
2906	495.028	780.788	285.76
2907	495.192	780.952	285.76
2908	495.355	781.115	285.76
2909	495.518	781.278	285.76
2910	495.682	781.442	285.76
2911	495.845	781.605	285.76
2912	496.008	781.768	285.76
2913	496.172	781.932	285.76
2914	496.335	782.095	285.76
2915	496.499	782.258	285.76
2916	496.662	782.422	285.76
2917	496.825	782.585	285.76
2918	496.989	782.749	285.76
2919	497.152	782.912	285.76
2920	497.315	783.075	285.76
2921	497.479	783.239	285.76
2922	497.642	783.402	285.76
2923	497.806	783.565	285.76
2924	497.969	783.729	285.76
2925	498.134	783.894	285.76
2926	498.301	784.061	285.76
2927	498.466	784.226	285.76
2928	498.63	784.39	285.76
2929	498.794	784.554	285.76
2930	498.957	784.717	285.76
2931	499.121	784.881	285.76
2932	499.284	785.044	285.76
2933	499.447	785.207	285.76
2934	499.611	785.371	285.76
2935	499.774	785.534	285.76
2936	499.941	785.7	285.76
2937	500.115	785.875	285.76
2938	500.3	786.06	285.76
2939	500.496	786.256	285.76
2940	500.702	786.462	285.76
2941	500.918	786.678	285.76
2942	501.143	786.903	285.76
2943	501.372	787.132	285.76
2944	501.601	787.361	285.76
2945	501.829	787.589	285.76
2946	502.058	787.818	285.76
2947	502.287	788.047	285.76
2948	502.516	788.276	285.76
2949	502.116	788.276	286.16
2950	501.084	788.276	287.192

2895	152.211	453.635	756.825
2896	151.565	452.684	754.227
2897	150.968	451.805	751.828
2898	150.422	451	749.627
2899	149.923	450.265	747.62
2900	149.444	449.56	745.695
2901	97.6988	160.099	384.814
2902	97.6988	160.099	384.814
2903	97.6988	160.099	384.814
2904	97.6988	160.099	384.814
2905	97.6988	160.099	384.814
2906	97.6988	160.099	384.814
2907	97.6988	160.099	384.814
2908	97.6988	160.099	384.814
2909	97.6988	160.099	384.814
2910	97.6988	160.099	384.814
2911	97.6988	160.099	384.814
2912	97.6988	160.099	384.814
2913	97.6988	160.099	384.814
2914	97.6988	160.099	384.814
2915	97.6988	160.099	384.814
2916	97.6988	160.099	384.814
2917	97.6988	160.099	384.814
2918	97.6988	160.099	384.814
2919	97.6988	160.099	384.814
2920	97.6988	160.099	384.814
2921	97.6988	160.099	384.814
2922	97.6988	160.099	384.814
2923	97.6988	160.099	384.814
2924	97.6988	160.099	384.814
2925	97.8256	161.563	385.237
2926	97.8248	161.554	385.234
2927	97.6988	160.099	384.814
2928	97.7192	160.335	384.882
2929	97.7033	160.151	384.829
2930	97.6988	160.099	384.814
2931	97.6988	160.099	384.814
2932	97.6988	160.099	384.814
2933	97.6988	160.099	384.814
2934	97.6988	160.099	384.814
2935	97.6988	160.099	384.814
2936	97.909	162.526	385.514
2937	98.2783	166.781	386.731
2938	98.6727	171.315	388.013
2939	99.0671	175.848	389.295
2940	99.5142	180.567	390.772
2941	100.025	185.51	392.486
2942	100.384	188.976	393.688
2943	100.384	188.976	393.688
2944	100.384	188.976	393.688
2945	100.384	188.976	393.688
2946	100.384	188.976	393.688
2947	100.384	188.976	393.688
2948	100.384	188.976	393.688
2949	550.476	624.141	1019.78
2950	549.698	625.829	1027.96

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010956

2951	500.047	788.276	288.229
2952	499.015	788.276	289.261
2953	498.009	788.276	290.267
2954	497.051	788.276	291.224
2955	496.156	788.276	292.12
2956	495.323	788.276	292.952
2957	494.554	788.276	293.722
2958	493.848	788.276	294.428
2959	493.204	788.276	295.071
2960	492.625	788.276	295.651
2961	492.109	788.276	296.167
2962	491.658	788.276	296.618
2963	491.271	788.276	297.005
2964	490.946	788.276	297.329
2965	490.684	788.276	297.591
2966	490.486	788.276	297.79
2967	490.36	788.276	297.916
2968	490.324	788.276	297.952
2969	490.333	788.285	297.952
2970	490.338	788.29	297.952
2971	490.338	788.29	297.952
2972	490.338	788.29	297.952
2973	490.338	788.29	297.952
2974	490.338	788.29	297.952
2975	490.338	788.29	297.952
2976	490.338	788.29	297.952
2977	490.338	788.29	297.952
2978	490.338	788.29	297.952
2979	490.338	788.29	297.952
2980	490.338	788.29	297.952
2981	490.338	788.29	297.952
2982	490.338	788.29	297.952
2983	490.338	788.29	297.952
2984	490.338	788.29	297.952
2985	490.338	788.29	297.952
2986	490.338	788.29	297.952
2987	490.359	788.311	297.952
2988	490.42	788.372	297.952
2989	490.517	788.469	297.952
2990	490.655	788.608	297.952
2991	490.837	788.789	297.952
2992	491.061	789.013	297.952
2993	491.329	789.281	297.952
2994	491.641	789.593	297.952
2995	491.998	789.95	297.952
2996	492.4	790.352	297.952
2997	492.847	790.799	297.952
2998	493.34	791.292	297.952
2999	493.877	791.829	297.952
3000	494.458	792.411	297.952
3001	495.082	793.034	297.952
3002	495.745	793.697	297.952
3003	496.442	794.394	297.952
3004	497.145	795.097	297.952
3005	497.836	795.788	297.952
3006	498.516	796.468	297.952

2951	550.06	624.894	1033.91
2952	553.664	615.202	1028.94
2953	558.514	594.24	996.294
2954	560.863	563.558	921.394
2955	566.363	546.787	883
2956	573.79	530.02	856.627
2957	579.35	515.236	849.538
2958	580.913	504.689	851.353
2959	576.919	500.328	835.746
2960	566.907	499.726	807.332
2961	556.15	504.965	842.063
2962	542.448	507.899	882.972
2963	522.027	505.557	896.395
2964	488.439	500.221	868.349
2965	441.616	497.527	853.191
2966	381.997	494.699	826.743
2967	256.284	416.075	681.888
2968	91.2077	272.447	437.038
2969	96.1523	271.014	409.458
2970	0	0	0
2971	0	0	0
2972	0	0	0
2973	0	0	0
2974	0	0	0
2975	0	0	0
2976	0	0	0
2977	0	0	0
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2980	0	0	0
2981	0	0	0
2982	0	0	0
2983	0	0	0
2984	0	0	0
2985	0	0	0
2986	0	0	0
2987	228.727	548.906	799.86
2988	223.311	549.717	829.731
2989	235.07	550.535	856.576
2990	253.407	551.753	881.042
2991	274.65	553.126	901.164
2992	292.443	554.46	916.749
2993	305.776	555.719	925.306
2994	317.095	556.943	931.932
2995	319.832	557.983	929.216
2996	322.567	559.023	926.502
2997	318.41	561.687	947.169
2998	313.873	564.44	969.117
2999	308.946	569.416	967.4
3000	303.867	575.272	956.296
3001	301.158	585.153	954.573
3002	301.462	600.124	964.027
3003	297.866	606.518	965.018
3004	281.765	584.673	938.414
3005	267.105	564.783	914.192
3006	255.742	550.055	892.253

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010957

3007	499.191	797.144	297.952
3008	499.863	797.815	297.952
3009	500.532	798.484	297.952
3010	501.199	799.151	297.952
3011	501.865	799.817	297.952
3012	502.53	800.482	297.952
3013	503.193	801.146	297.952
3014	503.855	801.807	297.952
3015	504.515	802.468	297.952
3016	505.174	803.126	297.952
3017	505.831	803.783	297.952
3018	506.486	804.438	297.952
3019	506.873	804.825	297.952
3020	506.992	804.945	297.952
3021	507.112	805.064	297.952
3022	507.232	805.184	297.952
3023	507.355	805.308	297.952
3024	507.469	805.421	297.952
3025	507.571	805.523	297.952
3026	507.671	805.623	297.952
3027	507.768	805.72	297.952
3028	507.863	805.815	297.952
3029	508.237	806.189	297.952
3030	508.89	806.842	297.952
3031	509.542	807.494	297.952
3032	510.193	808.145	297.952
3033	510.845	808.797	297.952
3034	511.499	809.451	297.952
3035	512.153	810.105	297.952
3036	512.809	810.761	297.952
3037	513.466	811.418	297.952
3038	514.123	812.075	297.952
3039	514.781	812.734	297.952
3040	515.44	813.393	297.952
3041	516.1	814.052	297.952
3042	516.76	814.712	297.952
3043	517.42	815.373	297.952
3044	518.081	816.033	297.952
3045	518.742	816.694	297.952
3046	519.402	817.354	297.952
3047	520.063	818.015	297.952
3048	520.723	818.675	297.952
3049	521.383	819.335	297.952
3050	522.042	819.994	297.952
3051	522.702	820.654	297.952
3052	523.361	821.313	297.952
3053	524.019	821.971	297.952
3054	524.677	822.629	297.952
3055	525.333	823.285	297.952
3056	525.988	823.94	297.952
3057	526.641	824.594	297.952
3058	527.293	825.246	297.952
3059	527.944	825.896	297.952
3060	528.333	826.285	297.952
3061	528.459	826.412	297.952
3062	528.584	826.536	297.952

3007	246.452	538.553	871.842
3008	237.999	528.089	853.273
3009	228.914	519.036	835.657
3010	217.587	511.874	818.105
3011	206.355	504.772	800.7
3012	195.513	497.917	783.899
3013	184.439	491.363	771.567
3014	173.401	485.038	761.499
3015	163.093	479.132	752.096
3016	153.095	473.402	742.977
3017	148.385	468.376	739.151
3018	148.538	464.003	740.192
3019	92.8143	162.205	363.132
3020	92.8143	162.205	363.132
3021	92.8143	162.205	363.132
3022	92.882	162.876	363.332
3023	92.9921	163.967	363.658
3024	92.341	157.5	361.521
3025	92.2868	156.959	361.303
3026	92.2326	156.418	361.084
3027	92.1784	155.877	360.865
3028	92.1242	155.336	360.646
3029	148.667	460.323	741.068
3030	148.825	455.805	742.143
3031	148.978	451.423	743.186
3032	150.737	450.697	748.064
3033	152.989	451.141	754.114
3034	155.215	451.579	760.092
3035	157.417	452.012	766.006
3036	159.595	452.441	771.855
3037	159.145	452.902	771.547
3038	158.348	453.331	770.363
3039	157.633	453.716	769.3
3040	156.998	454.057	768.357
3041	156.448	454.353	767.539
3042	155.984	454.603	766.851
3043	155.607	454.805	766.291
3044	155.357	454.862	765.802
3045	155.182	454.806	765.316
3046	155.023	454.755	764.875
3047	154.828	454.692	764.332
3048	154.581	454.612	763.645
3049	154.277	454.514	762.799
3050	153.911	454.396	761.782
3051	153.493	454.261	760.62
3052	153.023	454.11	759.313
3053	152.505	453.943	757.875
3054	151.949	453.25	755.773
3055	151.393	452.431	753.537
3056	150.848	451.627	751.342
3057	150.32	450.85	749.218
3058	149.805	450.092	747.147
3059	149.301	449.35	745.121
3060	96.6323	147.307	381.255
3061	96.5036	145.679	380.824
3062	96.5382	146.117	380.94

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010958

3063	528.709	826.661	297.952
3064	528.832	826.784	297.952
3065	528.934	826.887	297.952
3066	528.975	826.927	297.952
3067	528.952	826.927	297.975
3068	528.872	826.927	298.055
3069	528.721	826.927	298.206
3070	528.505	826.927	298.422
3071	528.246	826.927	298.681
3072	527.97	826.927	298.957
3073	527.716	826.927	299.211
3074	527.086	826.927	299.841
3075	526.051	826.927	300.876
3076	525.013	826.927	301.915
3077	523.984	826.927	302.943
3078	522.985	826.927	303.942
3079	522.035	826.927	304.892
3080	521.147	826.927	305.781
3081	520.321	826.927	306.606
3082	519.559	826.927	307.368
3083	518.859	826.927	308.068
3084	518.223	826.927	308.704
3085	517.651	826.927	309.277
3086	517.142	826.927	309.785
3087	516.699	826.927	310.228
3088	516.32	826.927	310.608
3089	516.002	826.927	310.925
3090	515.748	826.927	311.179
3091	515.557	826.927	311.37
3092	515.442	826.927	311.485
3093	515.412	826.927	311.515
3094	515.422	826.937	311.515
3095	515.426	826.941	311.515
3096	515.426	826.941	311.515
3097	515.426	826.941	311.515
3098	515.426	826.941	311.515
3099	515.426	826.941	311.515
3100	515.426	826.941	311.515
3101	515.426	826.941	311.515
3102	515.426	826.941	311.515
3103	515.426	826.941	311.515
3104	515.426	826.941	311.515
3105	515.426	826.941	311.515
3106	515.426	826.941	311.515
3107	515.426	826.941	311.515
3108	515.426	826.941	311.515
3109	515.426	826.941	311.515
3110	515.426	826.941	311.515
3111	515.426	826.941	311.515
3112	515.45	826.965	311.515
3113	515.515	827.03	311.515
3114	515.617	827.132	311.515
3115	515.761	827.275	311.515
3116	515.947	827.462	311.515
3117	516.177	827.692	311.515
3118	516.45	827.965	311.515

3063	96.5476	146.236	380.971
3064	96.4084	144.476	380.506
3065	95.6819	134.407	378.063
3066	18.6319	16.3647	48.9625
3067	194.159	152.973	453.33
3068	291.307	164.098	456.973
3069	357.99	182.334	462.913
3070	401.428	202.288	469.862
3071	416.113	211.636	473.393
3072	421.338	215.043	474.686
3073	388.767	196.182	467.721
3074	550.112	624.931	1023.61
3075	549.626	625.95	1031.08
3076	550.287	624.341	1035.4
3077	554.967	611.665	1026.08
3078	558.836	589.535	984.786
3079	561.489	561.669	917.131
3080	566.92	545.087	879.11
3081	574.656	528.166	853.966
3082	579.797	513.884	851.16
3083	580.528	504.294	850.389
3084	575.779	500.259	832.511
3085	565.745	499.657	804.033
3086	554.859	505.813	848.624
3087	540.487	507.729	886.062
3088	517.967	504.863	892.649
3089	483.197	499.818	866.145
3090	435.918	497.213	851.415
3091	374.187	494.347	822.962
3092	231.848	395.057	647.129
3093	91.9131	272.242	433.104
3094	96.7332	270.846	406.218
3095	0	0	0
3096	0	0	0
3097	0	0	0
3098	0	0	0
3099	0	0	0
3100	0	0	0
3101	0	0	0
3102	0	0	0
3103	0	0	0
3104	0	0	0
3105	0	0	0
3106	0	0	0
3107	0	0	0
3108	0	0	0
3109	0	0	0
3110	0	0	0
3111	0	0	0
3112	229.279	549.001	803.137
3113	224.654	549.81	832.797
3114	236.733	550.65	860.371
3115	255.952	551.919	883.472
3116	277.203	553.291	903.589
3117	294.213	554.608	917.732
3118	307.36	555.871	926.344

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010959

3119	516.767	828.282	311.515
3120	517.129	828.644	311.515
3121	517.537	829.052	311.515
3122	517.99	829.504	311.515
3123	518.488	830.003	311.515
3124	519.029	830.544	311.515
3125	519.611	831.126	311.515
3126	520.232	831.747	311.515
3127	520.888	832.403	311.515
3128	521.578	833.093	311.515
3129	522.283	833.798	311.515
3130	522.982	834.497	311.515
3131	523.669	835.184	311.515
3132	524.349	835.864	311.515
3133	525.025	836.54	311.515
3134	525.698	837.213	311.515
3135	526.369	837.884	311.515
3136	527.037	838.552	311.515
3137	527.705	839.22	311.515
3138	528.371	839.886	311.515
3139	529.037	840.552	311.515
3140	529.703	841.218	311.515
3141	530.368	841.883	311.515
3142	531.032	842.547	311.515
3143	531.696	843.211	311.515
3144	532.208	843.723	311.515
3145	532.568	844.083	311.515
3146	532.929	844.444	311.515
3147	533.289	844.804	311.515
3148	533.65	845.165	311.515
3149	534.011	845.526	311.515
3150	534.371	845.886	311.515
3151	534.732	846.247	311.515
3152	535.092	846.607	311.515
3153	535.453	846.968	311.515
3154	535.798	847.313	311.515
3155	536.125	847.64	311.515
3156	536.446	847.961	311.515
3157	536.761	848.276	311.515
3158	537.071	848.586	311.515
3159	537.555	849.07	311.515
3160	538.217	849.732	311.515
3161	538.878	850.393	311.515
3162	539.537	851.052	311.515
3163	540.196	851.711	311.515
3164	540.853	852.368	311.515
3165	541.51	853.025	311.515
3166	542.165	853.68	311.515
3167	542.82	854.335	311.515
3168	543.474	854.989	311.515
3169	544.128	855.643	311.515
3170	544.78	856.295	311.515
3171	545.432	856.947	311.515
3172	546.084	857.598	311.515
3173	546.735	858.249	311.515
3174	547.386	858.901	311.515

3119	317.261	557.077	931.717
3120	320.162	558.109	928.889
3121	322.403	559.265	927.85
3122	317.863	562.019	949.815
3123	313.326	564.771	971.761
3124	308.647	569.761	966.746
3125	303.983	575.139	956.55
3126	301.121	583.308	953.407
3127	301.389	596.508	961.743
3128	301.648	609.281	969.81
3129	290.207	596.127	952.363
3130	277.226	578.514	930.914
3131	265.362	562.418	911.311
3132	256.37	550.832	893.632
3133	249.079	541.806	877.615
3134	242.396	533.532	862.932
3135	236.298	525.983	849.536
3136	230.061	519.761	837.435
3137	223.016	515.307	826.518
3138	216.332	511.081	816.161
3139	209.88	507.001	806.163
3140	203.653	503.063	796.512
3141	197.641	499.262	787.197
3142	191.825	495.596	778.304
3143	185.77	492.126	772.781
3144	118.143	289.795	491.672
3145	118.143	289.795	491.672
3146	118.143	289.795	491.672
3147	118.143	289.795	491.672
3148	118.143	289.795	491.672
3149	118.143	289.795	491.672
3150	118.143	289.795	491.672
3151	118.143	289.795	491.672
3152	118.143	289.795	491.672
3153	118.143	289.795	491.672
3154	113.151	271.512	465.923
3155	112.268	268.175	461.597
3156	111.384	264.839	457.272
3157	110.501	261.503	452.946
3158	109.617	258.166	448.621
3159	181.995	489.963	769.337
3160	175.094	486.008	763.043
3161	168.4	482.172	756.937
3162	161.907	478.452	751.014
3163	155.608	474.842	745.269
3164	149.499	471.341	739.696
3165	148.383	468.456	739.132
3166	148.477	465.77	739.771
3167	148.568	463.152	740.394
3168	148.657	460.601	741.002
3169	148.744	458.114	741.593
3170	148.829	455.691	742.17
3171	148.911	453.329	742.732
3172	148.991	451.028	743.28
3173	149.86	450.525	743.71
3174	151.041	450.757	748.882

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010960

3175	548.038	859.553	311.515
3176	548.691	860.206	311.515
3177	549.344	860.859	311.515
3178	549.998	861.513	311.515
3179	550.652	862.167	311.515
3180	551.307	862.822	311.515
3181	551.963	863.478	311.515
3182	552.619	864.134	311.515
3183	553.276	864.791	311.515
3184	553.933	865.447	311.515
3185	554.59	866.105	311.515
3186	555.248	866.763	311.515
3187	555.906	867.421	311.515
3188	556.564	868.079	311.515
3189	557.223	868.738	311.515
3190	557.882	869.397	311.515
3191	558.542	870.057	311.515
3192	559.202	870.717	311.515
3193	559.862	871.377	311.515
3194	560.522	872.037	311.515
3195	561.183	872.698	311.515
3196	561.844	873.359	311.515
3197	562.504	874.019	311.515
3198	563.164	874.679	311.515
3199	563.825	875.34	311.515
3200	564.485	876	311.515
3201	565.145	876.66	311.515
3202	565.804	877.319	311.515
3203	566.464	877.979	311.515
3204	567.124	878.639	311.515
3205	567.783	879.298	311.515
3206	568.442	879.957	311.515
3207	569.102	880.616	311.515
3208	569.761	881.276	311.515
3209	570.42	881.935	311.515
3210	571.078	882.593	311.515
3211	571.737	883.252	311.515
3212	572.396	883.911	311.515
3213	573.054	884.569	311.515
3214	573.713	885.228	311.515
3215	574.371	885.886	311.515
3216	575.029	886.544	311.515
3217	575.687	887.202	311.515
3218	576.344	887.859	311.515
3219	577.001	888.516	311.515
3220	577.658	889.173	311.515
3221	578.314	889.829	311.515
3222	578.97	890.485	311.515
3223	579.626	891.141	311.515
3224	580.282	891.797	311.515
3225	580.937	892.452	311.515
3226	581.591	893.106	311.515
3227	582.245	893.76	311.515
3228	582.898	894.413	311.515
3229	582.707	894.413	311.706
3230	581.686	894.413	312.727

3175	152.2	450.985	751.994
3176	153.337	451.209	755.048
3177	154.452	451.429	758.044
3178	155.547	451.644	760.983
3179	156.621	451.855	763.868
3180	157.674	452.063	766.698
3181	158.708	452.266	769.474
3182	159.723	452.466	772.198
3183	159.557	452.681	772.158
3184	159.157	452.896	771.564
3185	158.763	453.108	770.979
3186	158.376	453.316	770.405
3187	157.996	453.52	769.84
3188	157.622	453.722	769.284
3189	157.255	453.919	768.738
3190	156.893	454.114	768.201
3191	156.543	454.302	767.681
3192	156.209	454.482	767.184
3193	155.89	454.654	766.71
3194	155.586	454.817	766.259
3195	155.344	454.858	765.767
3196	155.156	454.798	765.244
3197	154.978	454.74	764.75
3198	154.808	454.685	764.276
3199	154.641	454.631	763.812
3200	154.479	454.579	763.361
3201	154.326	454.53	762.935
3202	154.178	454.482	762.524
3203	154.032	454.435	762.119
3204	153.885	454.388	761.711
3205	153.738	454.341	761.302
3206	153.593	454.294	760.897
3207	153.449	454.247	760.497
3208	153.308	454.202	760.107
3209	153.171	454.158	759.727
3210	153.038	454.115	759.355
3211	152.906	454.072	758.99
3212	152.776	454.03	758.627
3213	152.648	453.989	758.271
3214	152.522	453.948	757.92
3215	152.398	453.908	757.575
3216	152.265	453.716	757.046
3217	152.135	453.524	756.522
3218	152.007	453.336	756.008
3219	151.882	453.151	755.502
3220	151.758	452.969	755.005
3221	151.637	452.79	754.517
3222	151.517	452.614	754.037
3223	151.4	452.441	753.565
3224	151.274	452.256	753.058
3225	151.099	451.998	752.355
3226	150.872	451.664	751.441
3227	150.593	451.253	750.319
3228	150.263	450.767	748.991
3229	549.798	625.613	1026.92
3230	554.179	605.079	1003.8

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010961

3231	581.264	894.413	313.149
3232	581.426	894.575	313.149
3233	581.594	894.743	313.149
3234	581.77	894.919	313.149
3235	581.961	895.109	313.149
3236	582.166	895.315	313.149
3237	582.377	895.526	313.149
3238	582.583	895.732	313.149
3239	582.772	895.921	313.149
3240	582.945	896.094	313.149
3241	583.101	896.25	313.149
3242	583.24	896.389	313.149
3243	583.363	896.512	313.149
3244	583.462	896.611	313.149
3245	582.985	896.611	313.626
3246	581.954	896.611	314.657
3247	580.948	896.611	315.664
3248	579.988	896.611	316.623
3249	579.09	896.611	317.521
3250	578.254	896.611	318.357
3251	577.481	896.611	319.13
3252	576.77	896.611	319.841
3253	576.123	896.611	320.489
3254	575.538	896.611	321.073
3255	575.017	896.611	321.594
3256	574.561	896.611	322.05
3257	574.17	896.611	322.441
3258	573.841	896.611	322.77
3259	573.574	896.611	323.037
3260	573.371	896.611	323.241
3261	573.238	896.611	323.373
3262	573.198	896.611	323.414
3263	573.208	896.621	323.414
3264	573.212	896.626	323.414
3265	573.212	896.626	323.414
3266	573.212	896.626	323.414
3267	573.212	896.626	323.414
3268	573.212	896.626	323.414
3269	573.212	896.626	323.414
3270	573.212	896.626	323.414
3271	573.212	896.626	323.414
3272	573.212	896.626	323.414
3273	573.212	896.626	323.414
3274	573.212	896.626	323.414
3275	573.212	896.626	323.414
3276	573.212	896.626	323.414
3277	573.212	896.626	323.414
3278	573.212	896.626	323.414
3279	573.212	896.626	323.414
3280	573.212	896.626	323.414
3281	573.232	896.646	323.414
3282	573.29	896.704	323.414
3283	573.385	896.798	323.414
3284	573.52	896.933	323.414
3285	573.698	897.111	323.414
3286	573.919	897.332	323.414

3231	107.906	170.534	424.822
3232	107.906	170.534	424.822
3233	108.226	174.473	425.887
3234	108.372	176.283	426.367
3235	109.185	186.544	428.988
3236	109.353	188.64	429.529
3237	109.597	191.148	430.337
3238	109.012	184.355	428.429
3239	108.467	177.483	426.674
3240	107.958	171.167	424.993
3241	107.462	165.057	423.341
3242	107.062	159.761	422.005
3243	106.677	154.593	420.719
3244	106.188	147.173	419.071
3245	550.11	624.771	1034.24
3246	553.741	614.993	1028.77
3247	558.484	594.678	997.364
3248	560.669	564.148	922.745
3249	566.092	547.611	884.888
3250	573.325	531.015	858.055
3251	579.106	516.09	848.976
3252	581.189	505.004	852.446
3253	577.313	500.59	837.113
3254	567.666	499.772	809.486
3255	556.986	504.418	837.82
3256	543.704	508.016	881.065
3257	524.565	505.901	898.078
3258	490.991	500.622	870.449
3259	445.209	497.725	854.31
3260	386.921	494.921	829.127
3261	271.693	429.327	703.806
3262	90.598	272.623	440.439
3263	95.786	271.12	411.501
3264	0	0	0
3265	0	0	0
3266	0	0	0
3267	0	0	0
3268	0	0	0
3269	0	0	0
3270	0	0	0
3271	0	0	0
3272	0	0	0
3273	0	0	0
3274	0	0	0
3275	0	0	0
3276	0	0	0
3277	0	0	0
3278	0	0	0
3279	0	0	0
3280	0	0	0
3281	211.32	548.883	802.361
3282	222.464	549.658	827.798
3283	234.022	550.462	854.183
3284	251.847	551.647	879.501
3285	273.04	553.021	899.634
3286	291.629	554.359	916.039

1974



SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010962

3287	574.184	897.597	323.414
3288	574.492	897.906	323.414
3289	574.846	898.259	323.414
3290	575.244	898.658	323.414
3291	575.688	899.101	323.414
3292	576.177	899.591	323.414
3293	576.711	900.125	323.414
3294	577.289	900.703	323.414
3295	577.909	901.323	323.414
3296	578.57	901.983	323.414
3297	579.265	902.679	323.414
3298	579.97	903.383	323.414
3299	580.661	904.074	323.414
3300	581.342	904.755	323.414
3301	582.017	905.431	323.414
3302	582.689	906.103	323.414
3303	583.358	906.771	323.414
3304	584.025	907.438	323.414
3305	584.691	908.104	323.414
3306	585.356	908.769	323.414
3307	586.02	909.433	323.414
3308	586.682	910.095	323.414
3309	587.342	910.756	323.414
3310	588.001	911.415	323.414
3311	588.658	912.072	323.414
3312	589.314	912.728	323.414
3313	589.969	913.382	323.414
3314	590.622	914.036	323.414
3315	591.274	914.688	323.414
3316	591.925	915.339	323.414
3317	592.577	915.991	323.414
3318	593.23	916.644	323.414
3319	593.884	917.298	323.414
3320	594.539	917.953	323.414
3321	595.195	918.609	323.414
3322	595.852	919.266	323.414
3323	596.51	919.924	323.414
3324	597.169	920.582	323.414
3325	597.828	921.242	323.414
3326	598.488	921.902	323.414
3327	599.149	922.562	323.414
3328	599.809	923.223	323.414
3329	599.62	923.223	323.602
3330	598.596	923.223	324.626
3331	597.83	923.223	325.393
3332	597.652	923.223	325.571
3333	597.825	923.395	325.571
3334	598.016	923.587	325.571
3335	598.227	923.798	325.571
3336	598.469	924.04	325.571
3337	598.741	924.312	325.571
3338	599.032	924.603	325.571
3339	599.34	924.911	325.571
3340	599.645	925.216	325.571
3341	599.94	925.51	325.571
3342	600.234	925.805	325.571

3287	304.777	555.623	924.652
3288	316.887	556.864	932.138
3289	319.624	557.904	929.422
3290	322.359	558.944	926.708
3291	318.754	561.478	945.5
3292	314.218	564.231	967.45
3293	309.332	568.971	968.244
3294	304.253	574.828	957.14
3295	301.135	583.997	953.843
3296	301.438	598.927	963.271
3297	299.375	608.566	967.511
3298	282.71	585.956	939.976
3299	267.838	565.777	915.403
3300	256.217	550.643	893.297
3301	246.911	539.122	872.852
3302	238.119	528.237	853.535
3303	228.735	518.923	835.381
3304	217.698	511.944	818.277
3305	206.857	505.089	801.478
3306	196.454	498.511	785.356
3307	186.038	492.28	773.025
3308	175.613	486.306	763.517
3309	165.502	480.512	754.293
3310	155.693	474.891	745.347
3311	148.34	469.67	738.843
3312	148.49	465.37	739.867
3313	148.637	461.179	740.864
3314	148.781	457.063	741.844
3315	148.926	452.907	742.833
3316	149.84	450.521	745.655
3317	152.006	450.947	751.472
3318	154.15	451.369	757.233
3319	156.265	451.785	762.912
3320	158.339	452.194	768.483
3321	159.697	452.605	772.367
3322	158.88	453.045	771.152
3323	158.076	453.477	769.959
3324	157.286	453.902	768.785
3325	156.509	454.32	767.631
3326	155.745	454.731	766.496
3327	155.137	454.791	765.19
3328	154.633	454.629	763.788
3329	550.714	623.214	1035.44
3330	556.827	606.612	1021.98
3331	526.104	342.242	616.489
3332	111.297	179.043	421.233
3333	111.735	184.49	423.356
3334	112.412	193.241	426.572
3335	113.147	201.108	429.798
3336	115.087	220.32	437.994
3337	116.111	229.657	445.182
3338	117.273	239.925	454.466
3339	118.08	246.595	461.383
3340	116.847	236.242	450.977
3341	116.847	236.242	450.977
3342	116.847	236.242	450.977

000000

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010963

3343	600.518	926.089	325.571
3344	600.765	926.336	325.571
3345	600.96	926.531	325.571
3346	601.103	926.674	325.571
3347	601.193	926.764	325.571
3348	601.224	926.795	325.571
3349	601.213	926.795	325.582
3350	601.188	926.795	325.608
3351	601.155	926.795	325.64
3352	601.13	926.795	325.665
3353	601.123	926.795	325.672
3354	601.151	926.823	325.672
3355	601.206	926.878	325.672
3356	600.756	926.878	326.122
3357	599.829	926.878	327.049
3358	598.965	926.878	327.913
3359	598.163	926.878	328.714
3360	597.425	926.878	329.453
3361	596.75	926.878	330.128
3362	596.138	926.878	330.74
3363	595.589	926.878	331.289
3364	595.105	926.878	331.772
3365	594.687	926.878	332.191
3366	594.331	926.878	332.547
3367	594.037	926.878	332.841
3368	593.807	926.878	333.071
3369	593.638	926.878	333.239
3370	593.556	926.878	333.322
3371	593.548	926.878	333.33
3372	593.557	926.887	333.33
3373	593.561	926.891	333.33
3374	593.561	926.891	333.33
3375	593.561	926.891	333.33
3376	593.561	926.891	333.33
3377	593.561	926.891	333.33
3378	593.561	926.891	333.33
3379	593.561	926.891	333.33
3380	593.561	926.891	333.33
3381	593.561	926.891	333.33
3382	593.561	926.891	333.33
3383	593.561	926.891	333.33
3384	593.561	926.891	333.33
3385	593.561	926.891	333.33
3386	593.561	926.891	333.33
3387	593.561	926.891	333.33
3388	593.561	926.891	333.33
3389	593.561	926.891	333.33
3390	593.591	926.921	333.33
3391	593.669	926.999	333.33
3392	593.787	927.117	333.33
3393	593.946	927.276	333.33
3394	594.149	927.479	333.33
3395	594.394	927.725	333.33
3396	594.684	928.014	333.33
3397	595.018	928.348	333.33
3398	595.397	928.727	333.33

3343	115.68	225.795	441.784
3344	113.162	201.275	429.867
3345	111.381	180.055	421.65
3346	110.03	163.205	414.625
3347	109.408	152.258	410.219
3348	18.7764	17.7711	48.5292
3349	112.136	106.132	289.824
3350	178.308	168.761	460.85
3351	192.292	181.722	496.192
3352	93.4807	88.4757	241.608
3353	6.40253	8.78382	23.9599
3354	109.292	150.229	409.103
3355	109.347	151.2	409.637
3356	559.595	578.466	957.711
3357	563.589	555.246	902.365
3358	569.801	538.55	868.814
3359	577.484	521.783	845.232
3360	581.167	508.858	853.733
3361	578.994	502.504	843.763
3362	571.979	500.031	821.724
3363	561.725	501.363	814.169
3364	550.737	508.554	869.815
3365	534.294	507.138	895.36
3366	505.446	502.895	882.344
3367	465.564	498.847	860.651
3368	414.822	496.179	842.634
3369	350.018	493.257	811.262
3370	156.228	330.018	539.564
3371	93.7108	271.722	423.077
3372	98.5309	270.325	396.191
3373	0	0	0
3374	0	0	0
3375	0	0	0
3376	0	0	0
3377	0	0	0
3378	0	0	0
3379	0	0	0
3380	0	0	0
3381	0	0	0
3382	0	0	0
3383	0	0	0
3384	0	0	0
3385	0	0	0
3386	0	0	0
3387	0	0	0
3388	0	0	0
3389	0	0	0
3390	230.99	549.295	813.279
3391	228.81	550.1	842.284
3392	242.719	551.055	870.83
3393	263.917	552.43	890.968
3394	284.928	553.807	911.131
3395	299.117	555.079	920.945
3396	312.261	556.342	929.554
3397	318.446	557.456	939.591
3398	321.182	558.496	927.877

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010964

3399	595.822	929.152	333.33
3400	596.291	929.621	333.33
3401	596.806	930.136	333.33
3402	597.365	930.696	333.33
3403	597.968	931.298	333.33
3404	598.612	931.942	333.33
3405	599.294	932.625	333.33
3406	599.997	933.327	333.33
3407	600.693	934.024	333.33
3408	601.377	934.708	333.33
3409	602.054	935.384	333.33
3410	602.726	936.057	333.33
3411	603.395	936.726	333.33
3412	604.062	937.392	333.33
3413	604.728	938.058	333.33
3414	605.393	938.723	333.33
3415	606.056	939.386	333.33
3416	606.717	940.048	333.33
3417	607.377	940.707	333.33
3418	608.034	941.364	333.33
3419	608.69	942.02	333.33
3420	609.344	942.675	333.33
3421	609.997	943.327	333.33
3422	610.649	943.979	333.33
3423	611.3	944.63	333.33
3424	611.952	945.283	333.33
3425	611.796	945.283	333.486
3426	610.862	945.283	334.421
3427	609.991	945.283	335.292
3428	609.359	945.283	335.924
3429	609.196	945.283	336.087
3430	609.297	945.384	336.087
3431	609.398	945.485	336.087
3432	609.5	945.586	336.087
3433	609.601	945.688	336.087
3434	609.732	945.818	336.087
3435	609.895	945.982	336.087
3436	610.064	946.151	336.087
3437	610.239	946.325	336.087
3438	610.419	946.506	336.087
3439	610.589	946.676	336.087
3440	610.747	946.833	336.087
3441	610.904	946.991	336.087
3442	611.061	947.148	336.087
3443	611.219	947.305	336.087
3444	611.376	947.463	336.087
3445	611.52	947.607	336.087
3446	611.634	947.721	336.087
3447	611.716	947.803	336.087
3448	611.763	947.85	336.087
3449	611.772	947.859	336.087
3450	611.744	947.859	336.115
3451	611.686	947.859	336.173
3452	611.6	947.859	336.259
3453	611.481	947.859	336.378
3454	611.331	947.859	336.527

3399	320.709	560.292	936.044
3400	316.17	563.046	958.002
3401	311.52	566.448	973.028
3402	306.439	572.307	961.919
3403	301.352	578.14	950.791
3404	301.309	592.558	959.249
3405	301.611	607.461	968.661
3406	289.46	595.113	951.128
3407	273.349	573.254	924.508
3408	259.27	554.423	900.005
3409	249.065	541.788	877.583
3410	239.331	529.738	856.2
3411	229.058	519.127	835.88
3412	216.583	511.239	816.55
3413	204.542	503.626	797.891
3414	192.92	496.277	779.88
3415	180.868	489.317	768.31
3416	169.175	482.616	757.643
3417	157.875	476.142	747.337
3418	148.328	470.012	738.762
3419	148.501	465.083	739.935
3420	148.668	460.28	741.078
3421	148.83	455.647	742.181
3422	148.986	451.174	743.245
3423	150.896	450.729	748.493
3424	153.148	451.172	754.539
3425	559.324	582.417	967.375
3426	562.987	557.08	906.564
3427	569.101	540.064	871.042
3428	494.15	324.361	562.717
3429	88.5937	166.633	389.433
3430	88.5937	166.633	389.433
3431	88.5937	166.633	389.433
3432	88.5937	166.633	389.433
3433	88.5937	166.633	389.433
3434	93.0967	186.518	401.736
3435	93.6045	188.73	402.942
3436	94.1123	190.943	404.149
3437	94.6745	193.357	405.385
3438	95.2617	195.866	406.636
3439	92.8177	185.302	401.073
3440	92.8177	185.302	401.073
3441	92.8177	185.302	401.073
3442	92.8177	185.302	401.073
3443	92.8177	185.302	401.073
3444	92.8177	185.302	401.073
3445	90.598	175.462	395.557
3446	88.3947	165.82	388.65
3447	86.8815	158.83	382.903
3448	47.7109	86.1095	210.532
3449	42.4799	45.8886	110.67
3450	195.689	196.658	472.671
3451	230.221	199.758	476.403
3452	275.488	204.953	481.912
3453	308.945	212.031	487.746
3454	338.082	219.932	493.703

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010965

3455	611.153	947.859	336.705
3456	610.99	947.859	336.869
3457	610.857	947.859	337.002
3458	610.728	947.859	337.13
3459	610.605	947.859	337.253
3460	610.487	947.859	337.371
3461	610.36	947.859	337.499
3462	610.219	947.859	337.639
3463	610.079	947.859	337.78
3464	609.938	947.859	337.92
3465	609.798	947.859	338.061
3466	609.658	947.859	338.201
3467	609.517	947.859	338.341
3468	609.377	947.859	338.482
3469	609.237	947.859	338.622
3470	609.107	947.859	338.752
3471	609	947.859	338.858
3472	608.919	947.859	338.94
3473	608.863	947.859	338.995
3474	608.83	947.859	339.029
3475	608.813	947.859	339.045
3476	608.425	947.859	339.434
3477	607.686	947.859	340.173
3478	607.007	947.859	340.852
3479	606.391	947.859	341.468
3480	605.838	947.859	342.021
3481	605.349	947.859	342.509
3482	604.927	947.859	342.932
3483	604.567	947.859	343.291
3484	604.27	947.859	343.589
3485	604.035	947.859	343.824
3486	603.863	947.859	343.996
3487	603.775	947.859	344.084
3488	603.763	947.859	344.096
3489	603.772	947.868	344.096
3490	603.776	947.872	344.096
3491	603.776	947.872	344.096
3492	603.776	947.872	344.096
3493	603.776	947.872	344.096
3494	603.776	947.872	344.096
3495	603.776	947.872	344.096
3496	603.776	947.872	344.096
3497	603.776	947.872	344.096
3498	603.776	947.872	344.096
3499	603.776	947.872	344.096
3500	603.776	947.872	344.096
3501	603.776	947.872	344.096
3502	603.776	947.872	344.096
3503	603.776	947.872	344.096
3504	603.776	947.872	344.096
3505	603.776	947.872	344.096
3506	603.776	947.872	344.096
3507	603.805	947.901	344.096
3508	603.882	947.977	344.096
3509	603.996	948.092	344.096
3510	604.153	948.249	344.096

3455	359.955	227.751	499.127
3456	310.562	212.373	488.028
3457	305.123	211.222	487.08
3458	299.684	210.072	486.131
3459	294.245	208.921	485.183
3460	288.806	207.77	484.234
3461	315.253	213.365	488.846
3462	315.253	213.365	488.846
3463	315.253	213.365	488.846
3464	315.253	213.365	488.846
3465	315.253	213.365	488.846
3466	315.253	213.365	488.846
3467	315.253	213.365	488.846
3468	315.253	213.365	488.846
3469	315.253	213.365	488.846
3470	292.827	208.621	484.935
3471	266.126	202.982	480.284
3472	228.14	199.572	476.179
3473	190.154	196.161	472.073
3474	120.138	129.778	312.987
3475	39.6768	42.8606	103.368
3476	577.532	521.617	845.341
3477	581.044	509.565	854.172
3478	579.244	502.788	844.749
3479	572.684	500.073	823.727
3480	562.466	500.878	810.414
3481	551.44	508.094	866.256
3482	535.326	507.234	893.793
3483	507.538	503.224	884.066
3484	468.51	499.009	861.569
3485	418.86	496.361	844.589
3486	354.056	493.439	813.217
3487	168.862	340.885	557.536
3488	93.4104	271.809	424.752
3489	98.2306	270.412	397.866
3490	0	0	0
3491	0	0	0
3492	0	0	0
3493	0	0	0
3494	0	0	0
3495	0	0	0
3496	0	0	0
3497	0	0	0
3498	0	0	0
3499	0	0	0
3500	0	0	0
3501	0	0	0
3502	0	0	0
3503	0	0	0
3504	0	0	0
3505	0	0	0
3506	0	0	0
3507	216.972	549.276	815.261
3508	228.115	550.051	840.699
3509	241.397	550.97	869.574
3510	262.51	552.346	889.732

88-10-0

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010966

3511	604.353	948.449	344.096
3512	604.596	948.692	344.096
3513	604.883	948.979	344.096
3514	605.215	949.31	344.096
3515	605.591	949.686	344.096
3516	606.012	950.108	344.096
3517	606.479	950.575	344.096
3518	606.991	951.087	344.096
3519	607.548	951.643	344.096
3520	608.148	952.243	344.096
3521	608.789	952.885	344.096
3522	609.469	953.565	344.096
3523	610.171	954.267	344.096
3524	610.868	954.964	344.096
3525	611.553	955.648	344.096
3526	612.23	956.325	344.096
3527	612.902	956.998	344.096
3528	613.572	957.667	344.096
3529	614.239	958.334	344.096
3530	614.905	959	344.096
3531	615.57	959.665	344.096
3532	616.233	960.329	344.096
3533	616.895	960.99	344.096
3534	617.555	961.65	344.096
3535	618.213	962.309	344.096
3536	618.869	962.965	344.096
3537	619.525	963.62	344.096
3538	620.178	964.274	344.096
3539	620.831	964.926	344.096
3540	621.482	965.578	344.096
3541	622.134	966.229	344.096
3542	622.786	966.882	344.096
3543	623.44	967.535	344.096
3544	624.095	968.19	344.096
3545	624.75	968.846	344.096
3546	625.407	969.503	344.096
3547	626.065	970.16	344.096
3548	626.723	970.819	344.096
3549	627.382	971.478	344.096
3550	628.042	972.138	344.096
3551	628.703	972.798	344.096
3552	629.363	973.459	344.096
3553	630.023	974.119	344.096
3554	630.683	974.778	344.096
3555	631.342	975.438	344.096
3556	632.001	976.096	344.096
3557	632.659	976.755	344.096
3558	633.317	977.412	344.096
3559	633.973	978.068	344.096
3560	634.628	978.723	344.096
3561	635.281	979.377	344.096
3562	635.933	980.029	344.096
3563	636.584	980.68	344.096
3564	637.002	981.098	344.096
3565	637.187	981.283	344.096
3566	637.372	981.468	344.096

3511	283.783	553.718	909.84
3512	298.298	555	920.408
3513	311.442	556.263	929.018
3514	318.276	557.391	930.761
3515	321.011	558.432	928.046
3516	320.992	560.121	934.675
3517	316.453	562.874	956.634
3518	311.837	566.083	973.721
3519	306.756	571.942	962.611
3520	301.675	577.79	951.504
3521	301.29	591.625	958.66
3522	301.593	606.536	968.077
3523	290.504	596.529	952.853
3524	274.318	574.569	926.109
3525	259.935	555.246	901.464
3526	249.753	542.641	879.096
3527	240.089	530.676	857.864
3528	230.277	519.898	837.77
3529	218.04	512.16	818.806
3530	206.299	504.736	800.613
3531	195.041	497.618	783.166
3532	183.626	490.898	770.826
3533	172.472	484.506	760.651
3534	161.748	478.36	750.869
3535	151.434	472.45	741.461
3536	148.417	467.477	739.365
3537	148.575	462.95	740.443
3538	148.73	458.526	741.496
3539	148.88	454.212	742.522
3540	149.204	450.396	743.949
3541	151.411	450.83	749.876
3542	153.577	451.256	755.694
3543	155.702	451.675	761.401
3544	157.788	452.085	767.001
3545	159.833	452.488	772.496
3546	159.098	452.928	771.476
3547	158.29	453.362	770.276
3548	157.496	453.789	769.097
3549	156.716	454.209	767.938
3550	155.949	454.622	766.798
3551	155.274	454.835	765.571
3552	154.765	454.671	764.156
3553	154.265	454.51	762.765
3554	153.773	454.352	761.399
3555	153.289	454.196	760.055
3556	152.814	454.043	758.734
3557	152.343	453.83	757.358
3558	151.845	453.096	755.353
3559	151.355	452.374	753.381
3560	150.873	451.665	751.443
3561	150.399	450.967	749.539
3562	149.934	450.282	747.666
3563	149.477	449.608	745.826
3564	98.4759	169.053	387.374
3565	98.4759	169.053	387.374
3566	98.4759	169.053	387.374

1653

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010967

3567	636.95	981.468	344.518
3568	635.916	981.468	345.552
3569	634.878	981.468	346.59
3570	633.85	981.468	347.618
3571	632.855	981.468	348.613
3572	631.914	981.468	349.554
3573	631.036	981.468	350.432
3574	630.221	981.468	351.247
3575	629.469	981.468	351.999
3576	628.78	981.468	352.688
3577	628.154	981.468	353.314
3578	627.592	981.468	353.876
3579	627.094	981.468	354.374
3580	626.661	981.468	354.807
3581	626.292	981.468	355.176
3582	625.985	981.468	355.483
3583	625.741	981.468	355.727
3584	625.559	981.468	355.908
3585	625.458	981.468	356.01
3586	625.438	981.468	356.03
3587	625.447	981.477	356.03
3588	625.451	981.481	356.03
3589	625.451	981.481	356.03
3590	625.451	981.481	356.03
3591	625.451	981.481	356.03
3592	625.451	981.481	356.03
3593	625.451	981.481	356.03
3594	625.451	981.481	356.03
3595	625.451	981.481	356.03
3596	625.451	981.481	356.03
3597	625.451	981.481	356.03
3598	625.451	981.481	356.03
3599	625.451	981.481	356.03
3600	625.451	981.481	356.03
3601	625.451	981.481	356.03
3602	625.451	981.481	356.03
3603	625.451	981.481	356.03
3604	625.451	981.481	356.03
3605	625.478	981.508	356.03
3606	625.548	981.578	356.03
3607	625.657	981.687	356.03
3608	625.807	981.838	356.03
3609	626.001	982.031	356.03
3610	626.237	982.268	356.03
3611	626.517	982.548	356.03
3612	626.842	982.872	356.03
3613	627.211	983.241	356.03
3614	627.625	983.656	356.03
3615	628.085	984.116	356.03
3616	628.591	984.621	356.03
3617	629.14	985.17	356.03
3618	629.733	985.764	356.03
3619	630.368	986.399	356.03
3620	631.043	987.073	356.03
3621	631.743	987.773	356.03
3622	632.442	988.472	356.03

3567	550.302	624.517	1021.61
3568	549.529	626.185	1030.45
3569	550.266	624.392	1035.26
3570	555.314	610.723	1025.31
3571	559.101	585.674	975.339
3572	562.362	559.025	911.135
3573	568.061	542.29	874.238
3574	575.954	525.386	849.976
3575	580.373	511.644	851.901
3576	579.831	503.457	847.072
3577	574.133	500.16	827.838
3578	564.078	499.765	801.784
3579	553.101	507.007	857.842
3580	537.849	507.47	889.959
3581	512.669	504.031	888.289
3582	475.736	499.407	863.821
3583	428.457	496.802	849.091
3584	363.961	493.885	818.012
3585	199.851	367.538	601.616
3586	92.6737	272.022	428.861
3587	97.4939	270.626	401.975
3588	0	0	0
3589	0	0	0
3590	0	0	0
3591	0	0	0
3592	0	0	0
3593	0	0	0
3594	0	0	0
3595	0	0	0
3596	0	0	0
3597	0	0	0
3598	0	0	0
3599	0	0	0
3600	0	0	0
3601	0	0	0
3602	0	0	0
3603	0	0	0
3604	0	0	0
3605	215.269	549.158	811.373
3606	226.412	549.933	836.811
3607	238.91	550.802	865.34
3608	259.358	552.134	886.636
3609	280.546	553.508	906.765
3610	296.288	554.807	919.092
3611	309.246	556.079	927.808
3612	317.857	557.232	931.176
3613	320.593	558.273	928.461
3614	321.686	559.7	931.318
3615	317.147	562.453	953.279
3616	312.642	565.209	975.291
3617	307.532	571.047	964.309
3618	302.454	576.901	953.208
3619	301.243	589.333	957.213
3620	301.546	604.266	966.643
3621	293.086	600.033	957.121
3622	276.714	577.82	930.069

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010968

3623	633.128	989.158	356.03
3624	633.805	989.835	356.03
3625	634.479	990.509	356.03
3626	635.148	991.178	356.03
3627	635.815	991.845	356.03
3628	636.481	992.512	356.03
3629	637.146	993.177	356.03
3630	637.81	993.84	356.03
3631	638.472	994.502	356.03
3632	639.132	995.162	356.03
3633	639.79	995.821	356.03
3634	640.447	996.477	356.03
3635	641.102	997.132	356.03
3636	641.756	997.786	356.03
3637	642.408	998.439	356.03
3638	643.06	999.09	356.03
3639	643.711	999.741	356.03
3640	644.363	1000.39	356.03
3641	645.017	1001.05	356.03
3642	645.672	1001.7	356.03
3643	646.328	1002.36	356.03
3644	646.985	1003.01	356.03
3645	647.642	1003.67	356.03
3646	648.301	1004.33	356.03
3647	648.96	1004.99	356.03
3648	649.62	1005.65	356.03
3649	650.28	1006.31	356.03
3650	650.94	1006.97	356.03
3651	651.6	1007.63	356.03
3652	652.26	1008.29	356.03
3653	652.919	1008.95	356.03
3654	653.578	1009.61	356.03
3655	654.236	1010.27	356.03
3656	654.894	1010.92	356.03
3657	655.55	1011.58	356.03
3658	656.205	1012.24	356.03
3659	656.859	1012.89	356.03
3660	657.511	1013.54	356.03
3661	657.322	1013.54	356.22
3662	656.288	1013.54	357.254
3663	655.25	1013.54	358.292
3664	654.227	1013.54	359.315
3665	653.249	1013.54	360.293
3666	652.334	1013.54	361.208
3667	651.484	1013.54	362.058
3668	651.067	1013.54	362.475
3669	651.113	1013.59	362.475
3670	651.215	1013.69	362.475
3671	651.298	1013.77	362.475
3672	651.366	1013.84	362.475
3673	651.426	1013.9	362.475
3674	651.517	1013.99	362.475
3675	651.641	1014.12	362.475
3676	651.771	1014.25	362.475
3677	651.907	1014.38	362.475
3678	652.044	1014.52	362.475

3623	261.531	557.222	904.972
3624	251.22	544.457	882.318
3625	241.403	532.303	860.75
3626	231.908	520.929	840.297
3627	219.492	513.079	821.057
3628	207.579	505.546	802.596
3629	196.154	498.322	784.892
3630	184.657	491.489	771.766
3631	173.279	484.968	761.387
3632	162.329	478.693	751.399
3633	151.796	472.658	741.791
3634	148.414	467.572	739.342
3635	148.573	463.019	740.426
3636	148.728	458.585	741.482
3637	148.878	454.263	742.51
3638	149.179	450.391	743.882
3639	151.384	450.825	749.802
3640	153.544	451.25	755.603
3641	155.663	451.667	761.295
3642	157.748	452.077	766.895
3643	159.794	452.48	772.389
3644	159.114	452.919	771.5
3645	158.306	453.354	770.3
3646	157.512	453.781	769.121
3647	156.732	454.201	767.961
3648	155.964	454.614	766.821
3649	155.284	454.839	765.6
3650	154.775	454.675	764.185
3651	154.275	454.513	762.793
3652	153.783	454.355	761.426
3653	153.299	454.199	760.082
3654	152.824	454.046	758.76
3655	152.353	453.845	757.399
3656	151.855	453.111	755.393
3657	151.368	452.394	753.434
3658	150.917	451.73	751.621
3659	150.507	451.125	749.97
3660	150.136	450.58	748.479
3661	550.228	624.678	1022.39
3662	549.65	625.892	1031.24
3663	550.758	623.095	1035.35
3664	557.236	605.503	1021.08
3665	559.943	573.384	945.279
3666	564.851	551.487	894.038
3667	571.775	534.336	862.821
3668	89.3517	96.4874	232.697
3669	89.2152	169.172	391.878
3670	88.0436	164.386	387.269
3671	87.0774	160.142	383.543
3672	86.7374	157.865	382.432
3673	86.7374	157.865	382.432
3674	89.9802	172.651	393.917
3675	90.3862	174.498	394.995
3676	90.7921	176.346	396.072
3677	91.1981	178.193	397.15
3678	91.0571	177.551	396.776

670010

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010969

3679	652.171	1014.65	362.475
3680	652.287	1014.76	362.475
3681	652.403	1014.88	362.475
3682	652.519	1014.99	362.475
3683	652.635	1015.11	362.475
3684	652.751	1015.23	362.475
3685	652.468	1015.23	362.758
3686	651.764	1015.23	363.462
3687	651.068	1015.23	364.158
3688	650.437	1015.23	364.789
3689	649.869	1015.23	365.357
3690	649.365	1015.23	365.861
3691	648.927	1015.23	366.299
3692	648.553	1015.23	366.673
3693	648.241	1015.23	366.985
3694	647.992	1015.23	367.234
3695	647.806	1015.23	367.42
3696	647.698	1015.23	367.528
3697	647.673	1015.23	367.553
3698	647.682	1015.24	367.553
3699	647.687	1015.24	367.553
3700	647.687	1015.24	367.553
3701	647.687	1015.24	367.553
3702	647.687	1015.24	367.553
3703	647.687	1015.24	367.553
3704	647.687	1015.24	367.553
3705	647.687	1015.24	367.553
3706	647.687	1015.24	367.553
3707	647.687	1015.24	367.553
3708	647.687	1015.24	367.553
3709	647.687	1015.24	367.553
3710	647.687	1015.24	367.553
3711	647.687	1015.24	367.553
3712	647.687	1015.24	367.553
3713	647.687	1015.24	367.553
3714	647.687	1015.24	367.553
3715	647.687	1015.24	367.553
3716	647.712	1015.26	367.553
3717	647.779	1015.33	367.553
3718	647.885	1015.44	367.553
3719	648.032	1015.59	367.553
3720	648.222	1015.78	367.553
3721	648.455	1016.01	367.553
3722	648.732	1016.29	367.553
3723	649.053	1016.61	367.553
3724	649.419	1016.97	367.553
3725	649.83	1017.38	367.553
3726	650.286	1017.84	367.553
3727	650.788	1018.34	367.553
3728	651.334	1018.89	367.553
3729	651.924	1019.48	367.553
3730	652.556	1020.11	367.553
3731	653.227	1020.78	367.553
3732	653.926	1021.48	367.553
3733	654.626	1022.18	367.553
3734	655.313	1022.87	367.553

3679	89.5898	170.874	392.881
3680	89.5898	170.874	392.881
3681	89.5898	170.874	392.881
3682	89.5898	170.874	392.881
3683	89.5898	170.874	392.881
3684	89.5898	170.874	392.881
3685	564.177	465.738	765.077
3686	579.958	513.102	850.942
3687	580.223	503.904	848.623
3688	575.047	500.215	830.433
3689	564.967	499.61	801.824
3690	553.979	506.432	853.395
3691	539.129	507.589	888.015
3692	515.257	504.49	890.809
3693	479.366	499.642	865.241
3694	432.085	497.002	850.221
3695	368.934	494.11	820.419
3696	215.411	380.92	623.749
3697	92.3038	272.129	430.924
3698	97.124	270.733	404.039
3699	0	0	0
3700	0	0	0
3701	0	0	0
3702	0	0	0
3703	0	0	0
3704	0	0	0
3705	0	0	0
3706	0	0	0
3707	0	0	0
3708	0	0	0
3709	0	0	0
3710	0	0	0
3711	0	0	0
3712	0	0	0
3713	0	0	0
3714	0	0	0
3715	0	0	0
3716	214.413	549.098	809.421
3717	225.557	549.873	834.859
3718	237.851	550.728	862.924
3719	257.663	552.03	885.105
3720	278.92	553.403	905.22
3721	295.279	554.71	918.431
3722	308.237	555.982	927.144
3723	317.647	557.152	931.384
3724	320.384	558.193	928.669
3725	322.034	559.488	929.632
3726	317.495	562.242	951.595
3727	312.989	564.998	973.606
3728	307.922	570.597	965.161
3729	302.844	576.452	954.059
3730	301.22	588.182	956.485
3731	301.523	603.125	966.923
3732	294.395	601.808	959.282
3733	277.927	579.466	932.073
3734	262.65	558.738	906.83

070010

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010970

3735	655.991	1023.54	367.553
3736	656.665	1024.22	367.553
3737	657.335	1024.89	367.553
3738	658.002	1025.56	367.553
3739	658.668	1026.22	367.553
3740	659.333	1026.89	367.553
3741	659.997	1027.55	367.553
3742	660.659	1028.21	367.553
3743	661.319	1028.87	367.553
3744	661.977	1029.53	367.553
3745	662.633	1030.19	367.553
3746	663.288	1030.84	367.553
3747	663.941	1031.49	367.553
3748	664.593	1032.15	367.553
3749	665.244	1032.8	367.553
3750	665.896	1033.45	367.553
3751	666.55	1034.1	367.553
3752	667.204	1034.76	367.553
3753	667.86	1035.41	367.553
3754	668.517	1036.07	367.553
3755	668.351	1036.07	367.719
3756	667.392	1036.07	368.679
3757	666.493	1036.07	369.577
3758	665.656	1036.07	370.414
3759	665.259	1036.07	370.811
3760	665.265	1036.08	370.811
3761	665.258	1036.08	370.818
3762	665.244	1036.08	370.832
3763	665.222	1036.08	370.854
3764	665.208	1036.08	370.867
3765	665.206	1036.08	370.87
3766	665.199	1036.08	370.877
3767	665.19	1036.08	370.885
3768	665.184	1036.08	370.892
3769	665.172	1036.08	370.904
3770	665.153	1036.08	370.922
3771	665.135	1036.08	370.941
3772	665.116	1036.08	370.959
3773	665.098	1036.08	370.978
3774	665.081	1036.08	370.994
3775	665.069	1036.08	371.006
3776	665.063	1036.08	371.013
3777	665.062	1036.08	371.013
3778	665.073	1036.09	371.013
3779	665.097	1036.11	371.013
3780	665.113	1036.13	371.013
3781	665.116	1036.13	371.013
3782	665.124	1036.14	371.013
3783	665.137	1036.15	371.013
3784	665.15	1036.16	371.013
3785	665.393	1036.41	371.013
3786	665.963	1036.98	371.013
3787	666.622	1037.64	371.013
3788	667.28	1038.29	371.013
3789	667.172	1038.29	371.121
3790	666.621	1038.29	371.672

3735	251.994	545.415	884.018
3736	242.125	533.197	862.337
3737	232.713	521.545	841.659
3738	220.179	513.513	822.122
3739	208.013	505.82	803.269
3740	196.27	498.395	785.072
3741	184.369	491.323	771.503
3742	172.504	484.525	760.681
3743	160.996	477.93	750.183
3744	149.833	471.533	740.001
3745	148.457	466.33	739.638
3746	148.628	461.421	740.806
3747	148.796	456.637	741.945
3748	148.958	451.975	743.055
3749	150.587	450.668	747.662
3750	152.978	451.138	754.084
3751	155.324	451.6	760.386
3752	157.626	452.053	766.568
3753	159.885	452.498	772.635
3754	158.991	452.985	771.317
3755	558.466	594.941	998.007
3756	560.673	564.138	922.723
3757	566.146	547.563	885.138
3758	572.917	531.89	859.312
3759	23.8595	43.0621	105.284
3760	13.1896	14.248	34.3621
3761	51.4085	55.5337	133.931
3762	89.6273	96.8193	233.501
3763	127.846	138.105	333.07
3764	1.67713	1.81171	4.36933
3765	23.4922	25.3773	61.2028
3766	45.3072	48.9428	118.036
3767	40.2345	43.4631	104.821
3768	23.8307	25.743	62.0847
3769	91.4444	98.7822	238.235
3770	91.4444	98.7822	238.235
3771	91.4444	98.7822	238.235
3772	91.4444	98.7822	238.235
3773	91.4444	98.7822	238.235
3774	71.9474	77.7207	187.44
3775	45.7976	49.4726	119.314
3776	19.6479	21.2245	51.1875
3777	6.198	11.1863	27.3496
3778	31.1257	56.1761	137.347
3779	56.0533	101.166	247.343
3780	0.266862	0.481637	1.17757
3781	9.55732	17.2492	42.1731
3782	18.8478	34.0168	83.1685
3783	28.1382	50.7843	124.164
3784	16.3374	29.4861	72.0913
3785	141.035	363.397	593.989
3786	170.818	483.558	759.142
3787	158.521	476.512	747.926
3788	148.334	469.863	738.797
3789	565.717	548.755	887.507
3790	388.765	231.684	471.478

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010971

3791	666.508	1038.29	371.785
3792	666.514	1038.3	371.785
3793	666.52	1038.3	371.785
3794	666.525	1038.31	371.785
3795	666.566	1038.35	371.785
3796	666.643	1038.43	371.785
3797	666.726	1038.51	371.785
3798	666.815	1038.6	371.785
3799	666.91	1038.69	371.785
3800	666.995	1038.78	371.785
3801	667.069	1038.85	371.785
3802	667.143	1038.93	371.785
3803	667.217	1039	371.785
3804	667.291	1039.08	371.785
3805	667.376	1039.16	371.785
3806	667.49	1039.27	371.785
3807	667.64	1039.42	371.785
3808	667.825	1039.61	371.785
3809	668.047	1039.83	371.785
3810	668.306	1040.09	371.785
3811	668.586	1040.37	371.785
3812	668.885	1040.67	371.785
3813	669.214	1041	371.785
3814	669.57	1041.35	371.785
3815	669.933	1041.72	371.785
3816	670.442	1042.23	371.785
3817	671.099	1042.88	371.785
3818	671.755	1043.54	371.785
3819	672.411	1044.2	371.785
3820	672.96	1044.74	371.785
3821	673.326	1045.11	371.785
3822	673.598	1045.38	371.785
3823	673.862	1045.65	371.785
3824	674.118	1045.9	371.785
3825	674.346	1046.13	371.785
3826	674.544	1046.33	371.785
3827	674.713	1046.5	371.785
3828	674.85	1046.63	371.785
3829	674.969	1046.75	371.785
3830	675.089	1046.87	371.785
3831	675.208	1046.99	371.785
3832	674.833	1046.99	372.16
3833	673.993	1046.99	373
3834	673.214	1046.99	373.779
3835	672.499	1046.99	374.494
3836	671.848	1046.99	375.145
3837	671.261	1046.99	375.732
3838	670.738	1046.99	376.255
3839	670.281	1046.99	376.712
3840	669.889	1046.99	377.104
3841	669.559	1046.99	377.434
3842	669.292	1046.99	377.701
3843	669.088	1046.99	377.905
3844	668.955	1046.99	378.038
3845	668.914	1046.99	378.079
3846	668.924	1047	378.079

3791	10.0475	17.7308	42.7067
3792	10.0475	17.7308	42.7067
3793	10.0475	17.7308	42.7067
3794	10.0475	17.7308	42.7067
3795	85.4417	154.215	361.794
3796	85.5515	155.185	361.968
3797	85.7853	156.654	362.731
3798	86.0191	158.122	363.493
3799	86.2529	159.59	364.255
3800	85.4297	154.102	361.78
3801	85.4297	154.102	361.78
3802	85.4297	154.102	361.78
3803	85.4297	154.102	361.78
3804	85.4297	154.102	361.78
3805	86.1942	159.222	364.064
3806	87.7446	169.818	367.725
3807	89.6588	182.939	371.091
3808	92	198.262	375.036
3809	94.8688	215.623	385.461
3810	97.774	234.474	403.397
3811	98.2515	238.019	408.25
3812	101.042	254.988	432.281
3813	104.626	272.69	458.295
3814	107.199	284.887	476.226
3815	106.465	281.452	471.2
3816	152.813	473.24	742.719
3817	148.319	470.277	738.698
3818	148.403	467.87	739.271
3819	148.486	465.486	739.839
3820	116.701	324.828	542.734
3821	101.446	236.343	410.278
3822	99.356	218.158	387.823
3823	100.446	226.802	396.146
3824	98.5244	212.008	383.266
3825	96.7643	198.155	374.938
3826	95.2995	185.445	370.129
3827	94.0464	174.027	366.698
3828	92.8143	162.205	363.132
3829	92.8143	162.205	363.132
3830	92.8143	162.205	363.132
3831	92.8143	162.205	363.132
3832	565.91	548.169	886.165
3833	572.416	532.964	860.853
3834	578.803	517.155	848.276
3835	581.403	505.248	853.293
3836	577.47	500.769	837.733
3837	567.96	499.79	810.32
3838	557.233	504.303	836.92
3839	543.967	508.039	880.661
3840	524.957	505.962	898.4
3841	491.283	500.668	870.689
3842	445.532	497.743	854.441
3843	387.3	494.938	829.31
3844	272.808	430.286	705.392
3845	90.5538	272.636	440.685
3846	95.7595	271.128	411.649

3847	668.929	1047.01	378.079
3848	668.929	1047.01	378.079
3849	668.929	1047.01	378.079
3850	668.929	1047.01	378.079
3851	668.929	1047.01	378.079
3852	668.929	1047.01	378.079
3853	668.929	1047.01	378.079
3854	668.929	1047.01	378.079
3855	668.929	1047.01	378.079
3856	668.929	1047.01	378.079
3857	668.929	1047.01	378.079
3858	668.929	1047.01	378.079
3859	668.929	1047.01	378.079
3860	668.929	1047.01	378.079
3861	668.929	1047.01	378.079
3862	668.929	1047.01	378.079
3863	668.929	1047.01	378.079
3864	668.948	1047.03	378.079
3865	669.006	1047.09	378.079
3866	669.101	1047.18	378.079
3867	669.235	1047.31	378.079
3868	669.413	1047.49	378.079
3869	669.634	1047.71	378.079
3870	669.898	1047.98	378.079
3871	670.207	1048.29	378.079
3872	670.56	1048.64	378.079
3873	670.958	1049.04	378.079
3874	671.402	1049.48	378.079
3875	671.891	1049.97	378.079
3876	672.424	1050.5	378.079
3877	673.002	1051.08	378.079
3878	673.622	1051.7	378.079
3879	674.282	1052.36	378.079
3880	674.978	1053.06	378.079
3881	675.682	1053.76	378.079
3882	676.372	1054.45	378.079
3883	677.052	1055.13	378.079
3884	677.727	1055.81	378.079
3885	678.397	1056.48	378.079
3886	679.065	1057.14	378.079
3887	679.731	1057.81	378.079
3888	680.396	1058.48	378.079
3889	681.06	1059.14	378.079
3890	681.722	1059.8	378.079
3891	682.381	1060.46	378.079
3892	683.038	1061.12	378.079
3893	683.694	1061.77	378.079
3894	684.348	1062.43	378.079
3895	685	1063.08	378.079
3896	685.652	1063.73	378.079
3897	686.304	1064.38	378.079
3898	686.957	1065.04	378.079
3899	687.612	1065.69	378.079
3900	688.268	1066.35	378.079
3901	688.925	1067	378.079
3902	689.583	1067.66	378.079

3847	0	0	0
3848	0	0	0
3849	0	0	0
3850	0	0	0
3851	0	0	0
3852	0	0	0
3853	0	0	0
3854	0	0	0
3855	0	0	0
3856	0	0	0
3857	0	0	0
3858	0	0	0
3859	0	0	0
3860	0	0	0
3861	0	0	0
3862	0	0	0
3863	0	0	0
3864	211.259	548.879	802.221
3865	222.403	549.654	827.658
3866	233.946	550.457	854.01
3867	251.686	551.641	879.4
3868	272.796	553.016	899.55
3869	291.556	554.352	915.992
3870	304.705	555.616	924.605
3871	316.872	556.858	932.153
3872	319.609	557.898	929.437
3873	322.344	558.938	926.723
3874	318.791	561.464	945.416
3875	314.243	564.215	967.329
3876	309.36	568.939	968.305
3877	304.281	574.795	957.201
3878	301.133	583.927	953.798
3879	301.438	598.914	963.264
3880	299.214	608.346	967.244
3881	282.265	585.351	939.24
3882	266.467	563.916	913.136
3883	254.397	548.39	889.298
3884	244.147	535.7	866.778
3885	234.308	523.52	845.164
3886	221.767	514.517	824.582
3887	208.892	506.376	804.63
3888	196.366	498.456	785.22
3889	183.545	490.851	770.752
3890	170.67	483.473	759.007
3891	158.101	476.271	747.542
3892	148.345	469.543	738.873
3893	148.537	464.033	740.185
3894	148.725	458.662	741.463
3895	148.908	453.427	742.709
3896	150.105	450.573	746.368
3897	152.785	451.1	753.566
3898	155.415	451.618	760.629
3899	157.995	452.126	767.559
3900	159.635	452.639	772.275
3901	158.619	453.186	770.764
3902	157.619	453.723	769.279

570010

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010973

3903	690.243	1068.32	378.079
3904	690.903	1068.98	378.079
3905	691.563	1069.64	378.079
3906	692.223	1070.3	378.079
3907	692.883	1070.96	378.079
3908	693.542	1071.62	378.079
3909	693.352	1071.62	378.269
3910	692.319	1071.62	379.302
3911	691.306	1071.62	380.315
3912	690.336	1071.62	381.285
3913	689.426	1071.62	382.195
3914	688.578	1071.62	383.042
3915	687.793	1071.62	383.828
3916	687.07	1071.62	384.551
3917	686.41	1071.62	385.211
3918	685.813	1071.62	385.808
3919	685.279	1071.62	386.341
3920	684.811	1071.62	386.81
3921	684.408	1071.62	387.213
3922	684.067	1071.62	387.554
3923	683.788	1071.62	387.833
3924	683.572	1071.62	388.048
3925	683.423	1071.62	388.197
3926	683.367	1071.62	388.254
3927	683.372	1071.63	388.254
3928	683.38	1071.63	388.254
3929	683.384	1071.64	388.254
3930	683.384	1071.64	388.254
3931	683.384	1071.64	388.254
3932	683.384	1071.64	388.254
3933	683.384	1071.64	388.254
3934	683.384	1071.64	388.254
3935	683.384	1071.64	388.254
3936	683.384	1071.64	388.254
3937	683.384	1071.64	388.254
3938	683.384	1071.64	388.254
3939	683.384	1071.64	388.254
3940	683.384	1071.64	388.254
3941	683.384	1071.64	388.254
3942	683.384	1071.64	388.254
3943	683.384	1071.64	388.254
3944	683.384	1071.64	388.254
3945	683.384	1071.64	388.254
3946	683.419	1071.67	388.254
3947	683.505	1071.76	388.254
3948	683.632	1071.89	388.254
3949	683.802	1072.06	388.254
3950	684.015	1072.27	388.254
3951	684.271	1072.52	388.254
3952	684.571	1072.82	388.254
3953	684.915	1073.17	388.254
3954	685.305	1073.56	388.254
3955	685.74	1073.99	388.254
3956	686.22	1074.47	388.254
3957	686.746	1075	388.254
3958	687.315	1075.57	388.254

3903	156.636	454.252	767.82
3904	155.67	454.772	766.384
3905	154.948	454.731	764.666
3906	154.308	454.524	762.885
3907	153.678	454.321	761.134
3908	153.058	454.121	759.413
3909	549.996	625.049	1033.5
3910	552.839	617.442	1030.76
3911	558.128	599.877	1010.08
3912	560.218	569.364	935.447
3913	565.072	550.723	892.012
3914	571.815	534.251	862.7
3915	578.391	518.601	847.325
3916	582.005	505.983	856.399
3917	578.068	501.45	840.099
3918	569.596	499.888	814.964
3919	559.111	503.074	827.409
3920	546.886	508.314	876.23
3921	530.363	506.771	901.332
3922	497.457	501.639	875.77
3923	454.315	498.227	857.147
3924	399.403	495.483	835.169
3925	310.747	462.917	759.357
3926	107.989	288.529	470.948
3927	94.8576	271.389	416.68
3928	99.6778	269.993	389.794
3929	0	0	0
3930	0	0	0
3931	0	0	0
3932	0	0	0
3933	0	0	0
3934	0	0	0
3935	0	0	0
3936	0	0	0
3937	0	0	0
3938	0	0	0
3939	0	0	0
3940	0	0	0
3941	0	0	0
3942	0	0	0
3943	0	0	0
3944	0	0	0
3945	0	0	0
3946	220.318	549.509	822.899
3947	231.461	550.284	848.337
3948	247.764	551.383	875.622
3949	268.959	552.757	895.758
3950	288.911	554.12	914.424
3951	302.059	555.387	923.077
3952	315.387	556.642	931.602
3953	318.985	557.71	930.027
3954	321.833	558.744	927.231
3955	319.629	560.948	941.27
3956	315.114	563.704	963.28
3957	310.293	567.767	970.336
3958	305.231	573.7	959.278

1665

452010

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010974

3959	687.927	1076.18	388.254
3960	688.58	1076.83	388.254
3961	689.272	1077.53	388.254
3962	689.977	1078.23	388.254
3963	690.67	1078.92	388.254
3964	691.352	1079.61	388.254
3965	692.028	1080.28	388.254
3966	692.7	1080.95	388.254
3967	693.368	1081.62	388.254
3968	694.035	1082.29	388.254
3969	694.7	1082.95	388.254
3970	695.365	1083.62	388.254
3971	696.028	1084.28	388.254
3972	696.69	1084.94	388.254
3973	697.35	1085.6	388.254
3974	698.008	1086.26	388.254
3975	698.666	1086.92	388.254
3976	699.322	1087.58	388.254
3977	699.978	1088.23	388.254
3978	700.633	1088.89	388.254
3979	701.287	1089.54	388.254
3980	701.94	1090.19	388.254
3981	702.593	1090.85	388.254
3982	703.246	1091.5	388.254
3983	703.897	1092.15	388.254
3984	704.548	1092.8	388.254
3985	705.199	1093.45	388.254
3986	705.851	1094.1	388.254
3987	706.503	1094.76	388.254
3988	707.155	1095.41	388.254
3989	707.808	1096.06	388.254
3990	708.462	1096.72	388.254
3991	709.118	1097.37	388.254
3992	709.774	1098.03	388.254
3993	710.431	1098.69	388.254
3994	711.09	1099.34	388.254
3995	711.75	1100	388.254
3996	712.41	1100.66	388.254
3997	713.07	1101.32	388.254
3998	713.729	1101.98	388.254
3999	714.386	1102.64	388.254
4000	715.042	1103.3	388.254
4001	715.694	1103.95	388.254
4002	715.88	1104.13	388.254
4003	715.6	1104.13	388.534
4004	715.334	1104.13	388.8
4005	715.118	1104.13	389.016
4006	714.973	1104.13	389.161
4007	714.901	1104.13	389.233
4008	714.894	1104.13	389.241
4009	714.961	1104.2	389.241
4010	715.11	1104.35	389.241
4011	715.295	1104.54	389.241
4012	715.493	1104.73	389.241
4013	715.704	1104.95	389.241
4014	715.92	1105.16	389.241

3959	301.076	581.108	952.018
3960	301.381	596.116	961.496
3961	301.683	610.986	970.887
3962	285.516	589.762	944.611
3963	269.691	568.291	918.464
3964	256.798	551.363	894.574
3965	246.707	538.869	872.403
3966	237.083	526.954	851.259
3967	226.049	517.225	831.219
3968	213.805	509.483	812.245
3969	202.453	502.305	794.653
3970	191.994	495.693	778.458
3971	181.637	489.758	769.011
3972	172.157	484.325	760.364
3973	163.542	479.389	752.506
3974	155.776	474.939	745.422
3975	148.844	470.966	739.099
3976	148.396	468.062	739.226
3977	148.483	465.576	739.817
3978	148.563	463.289	740.362
3979	148.641	461.059	740.892
3980	148.717	458.887	741.41
3981	148.791	456.769	741.914
3982	148.863	454.705	742.405
3983	148.933	452.694	742.884
3984	149.002	450.733	743.35
3985	149.84	450.521	745.655
3986	150.846	450.719	748.359
3987	151.822	450.911	750.98
3988	153.009	451.145	754.168
3989	154.512	451.44	758.203
3990	156.327	451.798	763.078
3991	158.456	452.217	768.797
3992	159.473	452.726	772.033
3993	158.333	453.339	770.34
3994	157.06	454.024	768.449
3995	155.661	454.777	766.371
3996	154.632	454.629	763.787
3997	153.685	454.323	761.153
3998	152.751	454.022	758.559
3999	151.786	453.009	755.115
4000	150.806	451.567	751.175
4001	149.844	450.149	747.302
4002	421.338	215.043	474.686
4003	421.338	215.043	474.686
4004	404.847	204.291	470.604
4005	352.775	180.62	462.35
4006	283.887	162.692	456.525
4007	182.524	152.099	453.033
4008	36.655	49.3943	144.906
4009	96.2347	142.25	379.924
4010	98.4759	169.053	387.374
4011	98.4759	169.053	387.374
4012	99.4598	180.041	390.589
4013	99.6451	181.833	391.211
4014	99.8303	183.624	391.832

448010



SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010975

4015	716.133	1105.37	389.241
4016	716.342	1105.58	389.241
4017	716.551	1105.79	389.241
4018	716.76	1106	389.241
4019	716.969	1106.21	389.241
4020	717.178	1106.42	389.241
4021	717.387	1106.63	389.241
4022	717.595	1106.84	389.241
4023	717.804	1107.04	389.241
4024	717.393	1107.04	389.652
4025	716.359	1107.04	390.686
4026	715.321	1107.04	391.724
4027	714.294	1107.04	392.751
4028	713.303	1107.04	393.742
4029	712.366	1107.04	394.679
4030	711.491	1107.04	395.554
4031	710.68	1107.04	396.365
4032	709.932	1107.04	397.113
4033	709.247	1107.04	397.798
4034	708.625	1107.04	398.42
4035	708.066	1107.04	398.979
4036	707.572	1107.04	399.473
4037	707.143	1107.04	399.902
4038	706.778	1107.04	400.267
4039	706.474	1107.04	400.571
4040	706.234	1107.04	400.811
4041	706.056	1107.04	400.989
4042	705.96	1107.04	401.085
4043	705.942	1107.04	401.103
4044	705.952	1107.05	401.103
4045	705.956	1107.06	401.103
4046	705.956	1107.06	401.103
4047	705.956	1107.06	401.103
4048	705.956	1107.06	401.103
4049	705.956	1107.06	401.103
4050	705.956	1107.06	401.103
4051	705.956	1107.06	401.103
4052	705.956	1107.06	401.103
4053	705.956	1107.06	401.103
4054	705.956	1107.06	401.103
4055	705.956	1107.06	401.103
4056	705.956	1107.06	401.103
4057	705.956	1107.06	401.103
4058	705.956	1107.06	401.103
4059	705.956	1107.06	401.103
4060	705.956	1107.06	401.103
4061	705.956	1107.06	401.103
4062	705.983	1107.09	401.103
4063	706.056	1107.16	401.103
4064	706.167	1107.27	401.103
4065	706.32	1107.42	401.103
4066	706.516	1107.62	401.103
4067	706.755	1107.86	401.103
4068	707.038	1108.14	401.103
4069	707.365	1108.47	401.103
4070	707.737	1108.84	401.103

4015	99.4041	179.502	390.402
4016	99.4041	179.502	390.402
4017	99.4041	179.502	390.402
4018	99.4041	179.502	390.402
4019	99.4041	179.502	390.402
4020	99.4041	179.502	390.402
4021	99.4041	179.502	390.402
4022	99.4041	179.502	390.402
4023	99.4041	179.502	390.402
4024	550.255	624.62	1022.1
4025	549.581	626.059	1030.79
4026	550.32	624.262	1035.61
4027	555.746	609.55	1024.36
4028	559.253	583.456	969.914
4029	562.728	557.871	908.375
4030	568.569	541.204	872.679
4031	576.432	524.362	848.505
4032	580.588	510.889	852.397
4033	579.605	503.2	846.18
4034	573.552	500.126	826.19
4035	563.452	500.233	805.423
4036	552.464	507.424	861.069
4037	536.891	507.38	891.414
4038	510.722	503.724	886.686
4039	472.995	499.256	862.966
4040	425.007	496.638	847.564
4041	360.203	493.716	816.193
4042	188.093	357.425	584.891
4043	92.9532	271.941	427.302
4044	97.7734	270.545	400.416
4045	0	0	0
4046	0	0	0
4047	0	0	0
4048	0	0	0
4049	0	0	0
4050	0	0	0
4051	0	0	0
4052	0	0	0
4053	0	0	0
4054	0	0	0
4055	0	0	0
4056	0	0	0
4057	0	0	0
4058	0	0	0
4059	0	0	0
4060	0	0	0
4061	0	0	0
4062	215.915	549.203	812.848
4063	227.058	549.978	838.286
4064	239.71	550.857	867.166
4065	260.587	552.214	887.804
4066	281.774	553.588	907.931
4067	297.051	554.88	919.591
4068	310.196	556.143	928.202
4069	318.016	557.293	931.018
4070	320.691	558.336	928.354

000010

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010976

4071	708.154	1109.26	401.103
4072	708.616	1109.72	401.103
4073	709.124	1110.23	401.103
4074	709.676	1110.78	401.103
4075	710.272	1111.37	401.103
4076	710.91	1112.01	401.103
4077	711.586	1112.69	401.103
4078	712.287	1113.39	401.103
4079	712.985	1114.09	401.103
4080	713.671	1114.77	401.103
4081	714.348	1115.45	401.103
4082	715.021	1116.12	401.103
4083	715.69	1116.79	401.103
4084	716.357	1117.46	401.103
4085	717.023	1118.13	401.103
4086	717.688	1118.79	401.103
4087	718.015	1119.12	401.103
4088	718.001	1119.12	401.116
4089	717.983	1119.12	401.134
4090	717.959	1119.12	401.158
4091	717.957	1119.12	401.16
4092	717.983	1119.14	401.16
4093	718.017	1119.18	401.16
4094	718.06	1119.22	401.16
4095	718.111	1119.27	401.16
4096	718.145	1119.31	401.16
4097	718.16	1119.32	401.16
4098	718.175	1119.34	401.16
4099	718.19	1119.35	401.16
4100	718.205	1119.37	401.16
4101	718.22	1119.38	401.16
4102	718.235	1119.4	401.16
4103	718.25	1119.41	401.16
4104	718.266	1119.43	401.16
4105	718.281	1119.44	401.16
4106	718.296	1119.46	401.16
4107	718.311	1119.47	401.16
4108	718.326	1119.49	401.16
4109	718.341	1119.5	401.16
4110	718.356	1119.52	401.16
4111	718.371	1119.53	401.16
4112	718.381	1119.54	401.16
4113	718.406	1119.57	401.16
4114	718.452	1119.61	401.16
4115	718.498	1119.66	401.16
4116	718.544	1119.7	401.16
4117	718.593	1119.75	401.16
4118	718.626	1119.79	401.16
4119	718.641	1119.8	401.16
4120	718.656	1119.82	401.16
4121	718.671	1119.83	401.16
4122	718.686	1119.85	401.16
4123	718.701	1119.86	401.16
4124	718.716	1119.88	401.16
4125	718.731	1119.89	401.16
4126	718.746	1119.91	401.16

4071	321.427	559.86	932.614
4072	316.883	562.613	954.552
4073	312.319	565.527	974.775
4074	307.237	571.386	963.665
4075	302.16	577.241	952.564
4076	301.261	590.203	957.762
4077	301.564	605.128	967.187
4078	292.103	598.699	955.495
4079	275.802	576.582	928.561
4080	260.909	556.452	903.605
4081	250.536	543.609	880.815
4082	240.543	531.238	858.861
4083	230.262	519.888	837.746
4084	217.18	511.617	817.475
4085	204.397	503.534	797.665
4086	191.887	495.632	778.361
4087	51.1157	55.2174	133.169
4088	77.2655	83.4655	201.295
4089	103.415	111.714	269.422
4090	129.565	139.962	337.548
4091	37.6162	67.8904	165.987
4092	53.2534	96.1126	234.988
4093	68.8906	124.335	303.99
4094	84.5278	152.557	372.991
4095	86.5823	156.826	381.926
4096	26.7236	48.2312	117.922
4097	26.7236	48.2312	117.922
4098	26.7236	48.2312	117.922
4099	26.7236	48.2312	117.922
4100	26.7236	48.2312	117.922
4101	26.7236	48.2312	117.922
4102	26.7236	48.2312	117.922
4103	26.7236	48.2312	117.922
4104	26.7236	48.2312	117.922
4105	26.7236	48.2312	117.922
4106	26.7236	48.2312	117.922
4107	26.7236	48.2312	117.922
4108	26.7236	48.2312	117.922
4109	26.7236	48.2312	117.922
4110	26.7236	48.2312	117.922
4111	26.7236	48.2312	117.922
4112	8.73616	15.7672	38.5496
4113	81.4566	147.014	359.439
4114	81.4566	147.014	359.439
4115	81.4566	147.014	359.439
4116	81.4566	147.014	359.439
4117	86.5298	156.474	381.754
4118	26.7236	48.2312	117.922
4119	26.7236	48.2312	117.922
4120	26.7236	48.2312	117.922
4121	26.7236	48.2312	117.922
4122	26.7236	48.2312	117.922
4123	26.7236	48.2312	117.922
4124	26.7236	48.2312	117.922
4125	26.7236	48.2312	117.922
4126	26.7236	48.2312	117.922

772010

010977

4127	718.761	1119.92	401.16
4128	718.776	1119.94	401.16
4129	718.791	1119.95	401.16
4130	718.806	1119.97	401.16
4131	718.822	1119.98	401.16
4132	718.837	1120	401.16
4133	718.852	1120.01	401.16
4134	718.853	1120.01	401.16
4135	718.838	1120.01	401.175
4136	718.819	1120.01	401.193
4137	718.798	1120.01	401.215
4138	718.773	1120.01	401.239
4139	719.091	1120.33	401.239
4140	719.752	1120.99	401.239
4141	720.41	1121.65	401.239
4142	721.066	1122.31	401.239
4143	721.72	1122.96	401.239
4144	722.373	1123.61	401.239
4145	723.024	1124.26	401.239
4146	723.676	1124.92	401.239
4147	724.329	1125.57	401.239
4148	724.982	1126.22	401.239
4149	725.637	1126.88	401.239
4150	726.293	1127.53	401.239
4151	726.95	1128.19	401.239
4152	727.608	1128.85	401.239
4153	728.266	1129.51	401.239
4154	728.924	1130.16	401.239
4155	729.584	1130.82	401.239
4156	730.244	1131.48	401.239
4157	730.904	1132.14	401.239
4158	731.565	1132.8	401.239
4159	732.225	1133.46	401.239
4160	732.885	1134.12	401.239
4161	733.544	1134.78	401.239
4162	734.204	1135.44	401.239
4163	734.014	1135.44	401.429
4164	732.982	1135.44	402.46
4165	731.977	1135.44	403.466
4166	731.02	1135.44	404.423
4167	730.126	1135.44	405.317
4168	729.295	1135.44	406.147
4169	728.528	1135.44	406.915
4170	727.823	1135.44	407.62
4171	727.182	1135.44	408.261
4172	726.604	1135.44	408.839
4173	726.09	1135.44	409.353
4174	725.641	1135.44	409.802
4175	725.256	1135.44	410.187
4176	724.933	1135.44	410.51
4177	724.672	1135.44	410.771
4178	724.475	1135.44	410.967
4179	724.352	1135.44	411.091
4180	724.318	1135.44	411.125
4181	724.327	1135.45	411.125
4182	724.332	1135.46	411.125

4127	26.7236	48.2312	117.922
4128	26.7236	48.2312	117.922
4129	26.7236	48.2312	117.922
4130	26.7236	48.2312	117.922
4131	26.7236	48.2312	117.922
4132	26.7236	48.2312	117.922
4133	26.7236	48.2312	117.922
4134	65.2975	70.5372	170.116
4135	81.7014	88.2573	212.852
4136	98.1052	105.977	255.588
4137	114.509	123.698	298.324
4138	125.885	135.986	327.961
4139	176.265	486.68	764.111
4140	162.827	478.979	751.854
4141	149.792	471.51	739.964
4142	148.487	465.466	739.844
4143	148.682	459.899	741.169
4144	148.864	454.682	742.41
4145	149.298	450.414	744.199
4146	151.714	450.889	750.688
4147	153.994	451.338	756.812
4148	156.138	451.76	762.57
4149	158.123	452.151	767.901
4150	159.871	452.512	772.625
4151	159.187	452.88	771.609
4152	158.545	453.225	770.654
4153	157.913	453.565	769.716
4154	157.292	453.899	768.793
4155	156.667	454.235	767.866
4156	156.034	454.576	766.925
4157	155.418	454.882	765.971
4158	154.988	454.743	764.777
4159	154.563	454.606	763.594
4160	154.144	454.471	762.431
4161	153.732	454.338	761.285
4162	153.311	454.203	760.115
4163	550.057	624.902	1033.89
4164	553.699	615.107	1028.87
4165	558.545	593.79	995.191
4166	560.977	563.209	920.595
4167	566.502	546.362	882.029
4168	574.012	529.545	855.945
4169	579.456	514.864	849.783
4170	580.801	504.562	850.911
4171	576.631	500.31	834.928
4172	566.619	499.709	806.514
4173	555.834	505.173	843.67
4174	541.972	507.855	883.695
4175	521.06	505.405	895.597
4176	487.475	500.11	867.888
4177	440.255	497.452	852.766
4178	380.131	494.615	825.84
4179	250.447	411.054	673.585
4180	91.4386	272.38	435.75
4181	96.2911	270.974	408.684
4182	0	0	0

8V0010

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010978

4183	724.332	1135.46	411.125
4184	724.332	1135.46	411.125
4185	724.332	1135.46	411.125
4186	724.332	1135.46	411.125
4187	724.332	1135.46	411.125
4188	724.332	1135.46	411.125
4189	724.332	1135.46	411.125
4190	724.332	1135.46	411.125
4191	724.332	1135.46	411.125
4192	724.332	1135.46	411.125
4193	724.332	1135.46	411.125
4194	724.332	1135.46	411.125
4195	724.332	1135.46	411.125
4196	724.332	1135.46	411.125
4197	724.332	1135.46	411.125
4198	724.332	1135.46	411.125
4199	724.354	1135.48	411.125
4200	724.415	1135.54	411.125
4201	724.514	1135.64	411.125
4202	724.654	1135.78	411.125
4203	724.836	1135.96	411.125
4204	725.062	1136.19	411.125
4205	725.331	1136.46	411.125
4206	725.644	1136.77	411.125
4207	726.002	1137.13	411.125
4208	726.405	1137.53	411.125
4209	726.854	1137.98	411.125
4210	727.348	1138.47	411.125
4211	727.887	1139.01	411.125
4212	728.469	1139.59	411.125
4213	729.094	1140.22	411.125
4214	729.758	1140.88	411.125
4215	730.455	1141.58	411.125
4216	731.158	1142.28	411.125
4217	731.847	1142.97	411.125
4218	732.526	1143.65	411.125
4219	733.201	1144.33	411.125
4220	733.871	1145	411.125
4221	734.539	1145.66	411.125
4222	735.205	1146.33	411.125
4223	735.87	1147	411.125
4224	736.534	1147.66	411.125
4225	737.197	1148.32	411.125
4226	737.857	1148.98	411.125
4227	738.515	1149.64	411.125
4228	739.171	1150.3	411.125
4229	739.826	1150.95	411.125
4230	740.48	1151.61	411.125
4231	741.132	1152.26	411.125
4232	741.783	1152.91	411.125
4233	742.435	1153.56	411.125
4234	743.089	1154.21	411.125
4235	743.743	1154.87	411.125
4236	744.399	1155.52	411.125
4237	745.056	1156.18	411.125
4238	744.894	1156.18	411.288

4183	0	0	0
4184	0	0	0
4185	0	0	0
4186	0	0	0
4187	0	0	0
4188	0	0	0
4189	0	0	0
4190	0	0	0
4191	0	0	0
4192	0	0	0
4193	0	0	0
4194	0	0	0
4195	0	0	0
4196	0	0	0
4197	0	0	0
4198	0	0	0
4199	212.488	548.965	805.026
4200	223.631	549.739	830.464
4201	235.468	550.562	857.482
4202	254.068	551.791	881.611
4203	275.124	553.168	901.772
4204	293.007	554.492	916.942
4205	305.967	555.763	925.65
4206	317.174	556.973	931.854
4207	319.911	558.013	929.138
4208	322.646	559.053	926.424
4209	318.279	561.767	947.801
4210	313.742	564.519	969.749
4211	308.8	569.585	967.08
4212	303.721	575.441	955.977
4213	301.167	585.586	954.846
4214	301.471	600.553	964.298
4215	297.367	605.841	964.193
4216	280.685	583.207	936.629
4217	265.209	562.209	911.058
4218	253.747	547.585	887.87
4219	243.797	535.267	866.01
4220	234.308	523.519	845.162
4221	222.325	514.87	825.447
4222	210.085	507.13	806.479
4223	198.269	499.66	788.17
4224	186.455	492.519	773.406
4225	174.529	485.684	762.527
4226	162.96	479.055	751.974
4227	151.738	472.624	741.738
4228	148.427	467.191	739.433
4229	148.599	462.261	740.607
4230	148.767	457.455	741.75
4231	148.931	452.772	742.865
4232	150.169	450.585	746.539
4233	152.568	451.058	752.983
4234	154.957	451.528	759.4
4235	157.45	452.019	766.094
4236	159.828	452.535	772.561
4237	158.716	453.133	779.909
4238	558.71	591.388	989.318

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4239	743.938	1156.18	412.243
4240	743.037	1156.18	413.144
4241	742.192	1156.18	413.99
4242	741.632	1156.18	414.55
4243	741.403	1156.18	414.778
4244	741.252	1156.18	414.929
4245	741.097	1156.18	415.084
4246	740.944	1156.18	415.237
4247	740.802	1156.18	415.379
4248	740.678	1156.18	415.504
4249	740.57	1156.18	415.611
4250	740.468	1156.18	415.714
4251	740.37	1156.18	415.811
4252	740.276	1156.18	415.905
4253	740.173	1156.18	416.008
4254	740.058	1156.18	416.124
4255	739.942	1156.18	416.239
4256	739.827	1156.18	416.354
4257	739.711	1156.18	416.47
4258	739.596	1156.18	416.585
4259	739.481	1156.18	416.701
4260	739.365	1156.18	416.816
4261	739.25	1156.18	416.931
4262	739.135	1156.18	417.047
4263	739.019	1156.18	417.162
4264	738.904	1156.18	417.278
4265	738.788	1156.18	417.393
4266	738.673	1156.18	417.508
4267	738.558	1156.18	417.624
4268	738.442	1156.18	417.739
4269	738.318	1156.18	417.864
4270	738.18	1156.18	418.001
4271	738.035	1156.18	418.146
4272	737.888	1156.18	418.293
4273	737.739	1156.18	418.442
4274	737.85	1156.29	418.442
4275	738.366	1156.81	418.442
4276	739.025	1157.47	418.442
4277	739.681	1158.12	418.442
4278	740.335	1158.78	418.442
4279	740.205	1158.78	418.572
4280	739.322	1158.78	419.456
4281	738.498	1158.78	420.28
4282	737.733	1158.78	421.044
4283	737.03	1158.78	421.748
4284	736.388	1158.78	422.389
4285	735.81	1158.78	422.968
4286	735.294	1158.78	423.483
4287	734.845	1158.78	423.933
4288	734.459	1158.78	424.319
4289	734.136	1158.78	424.642
4290	733.874	1158.78	424.903
4291	733.677	1158.78	425.101
4292	733.552	1158.78	425.225
4293	733.517	1158.78	425.261
4294	733.526	1158.79	425.261

4239	560.766	563.853	922.07
4240	565.606	549.096	888.287
4241	571.679	534.542	863.117
4242	435.095	268.787	524.86
4243	328.765	216.602	491.393
4244	324.14	215.245	490.396
4245	335.134	218.878	492.972
4246	319.257	214.212	489.544
4247	314.565	213.22	488.726
4248	282.739	206.487	483.176
4249	277.818	205.446	482.318
4250	272.897	204.405	481.46
4251	267.606	203.286	480.537
4252	262.856	202.688	479.931
4253	288.843	207.778	484.241
4254	288.843	207.778	484.241
4255	288.843	207.778	484.241
4256	288.843	207.778	484.241
4257	288.843	207.778	484.241
4258	288.843	207.778	484.241
4259	288.843	207.778	484.241
4260	288.843	207.778	484.241
4261	288.843	207.778	484.241
4262	288.843	207.778	484.241
4263	288.843	207.778	484.241
4264	288.843	207.778	484.241
4265	288.843	207.778	484.241
4266	288.843	207.778	484.241
4267	288.843	207.778	484.241
4268	288.843	207.778	484.241
4269	308.585	211.955	487.683
4270	316.258	213.578	489.021
4271	322.832	214.969	490.168
4272	322.397	214.876	490.092
4273	326.625	215.837	490.863
4274	119.512	296.922	501.195
4275	166.984	481.361	755.645
4276	151.314	472.382	741.352
4277	148.497	465.175	739.913
4278	148.723	458.707	741.452
4279	562.157	559.611	912.359
4280	567.232	544.136	876.931
4281	574.587	528.314	854.179
4282	579.573	514.451	850.055
4283	580.832	504.641	851.624
4284	576.732	500.316	835.214
4285	566.754	499.717	806.897
4286	555.991	505.116	843.207
4287	542.195	507.876	883.357
4288	521.5	505.419	895.555
4289	487.926	500.14	867.926
4290	440.892	497.487	852.965
4291	381.005	494.654	826.263
4292	253.181	413.406	677.474
4293	91.3305	272.411	436.353
4294	96.2261	270.993	409.047

080010

010980

4295	733.531	1158.79	425.261
4296	733.531	1158.79	425.261
4297	733.531	1158.79	425.261
4298	733.531	1158.79	425.261
4299	733.531	1158.79	425.261
4300	733.531	1158.79	425.261
4301	733.531	1158.79	425.261
4302	733.531	1158.79	425.261
4303	733.531	1158.79	425.261
4304	733.531	1158.79	425.261
4305	733.531	1158.79	425.261
4306	733.531	1158.79	425.261
4307	733.531	1158.79	425.261
4308	733.531	1158.79	425.261
4309	733.531	1158.79	425.261
4310	733.531	1158.79	425.261
4311	733.531	1158.79	425.261
4312	733.553	1158.81	425.261
4313	733.614	1158.87	425.261
4314	733.712	1158.97	425.261
4315	733.851	1159.11	425.261
4316	734.033	1159.29	425.261
4317	734.258	1159.52	425.261
4318	734.527	1159.79	425.261
4319	734.839	1160.1	425.261
4320	735.197	1160.46	425.261
4321	735.6	1160.86	425.261
4322	736.047	1161.31	425.261
4323	736.541	1161.8	425.261
4324	737.079	1162.34	425.261
4325	737.661	1162.92	425.261
4326	738.285	1163.55	425.261
4327	738.949	1164.21	425.261
4328	739.645	1164.91	425.261
4329	740.348	1165.61	425.261
4330	741.038	1166.3	425.261
4331	741.717	1166.98	425.261
4332	742.392	1167.65	425.261
4333	743.063	1168.32	425.261
4334	743.731	1168.99	425.261
4335	744.397	1169.66	425.261
4336	745.063	1170.32	425.261
4337	745.727	1170.99	425.261
4338	746.39	1171.65	425.261
4339	747.052	1172.31	425.261
4340	747.711	1172.97	425.261
4341	748.369	1173.63	425.261
4342	749.025	1174.29	425.261
4343	749.68	1174.94	425.261
4344	750.333	1175.59	425.261
4345	750.986	1176.25	425.261
4346	751.637	1176.9	425.261
4347	752.288	1177.55	425.261
4348	752.941	1178.2	425.261
4349	753.595	1178.86	425.261
4350	754.25	1179.51	425.261

4295	0	0	0
4296	0	0	0
4297	0	0	0
4298	0	0	0
4299	0	0	0
4300	0	0	0
4301	0	0	0
4302	0	0	0
4303	0	0	0
4304	0	0	0
4305	0	0	0
4306	0	0	0
4307	0	0	0
4308	0	0	0
4309	0	0	0
4310	0	0	0
4311	0	0	0
4312	228.797	548.918	800.276
4313	223.481	549.729	830.121
4314	235.282	550.55	857.058
4315	253.73	551.774	881.351
4316	274.975	553.147	901.472
4317	292.829	554.475	916.826
4318	305.977	555.738	925.438
4319	317.137	556.959	931.89
4320	319.874	557.999	929.174
4321	322.609	559.039	926.461
4322	318.354	561.731	947.543
4323	313.804	564.482	969.453
4324	308.868	569.506	967.23
4325	303.789	575.362	956.126
4326	301.163	585.383	954.718
4327	301.467	600.352	964.171
4328	297.608	606.169	964.592
4329	280.95	583.568	937.068
4330	265.534	562.651	911.595
4331	254.056	547.967	888.549
4332	244.375	535.982	867.279
4333	235.334	524.79	847.418
4334	224.455	516.217	828.749
4335	212.978	508.96	810.963
4336	201.988	502.011	793.932
4337	191.408	495.357	777.923
4338	180.276	488.978	767.77
4339	169.533	482.822	757.97
4340	159.129	476.86	748.48
4341	149.037	471.077	739.275
4342	148.453	466.442	739.611
4343	148.608	462.003	740.666
4344	148.759	457.677	741.698
4345	148.907	453.46	742.701
4346	149.555	450.465	744.89
4347	151.712	450.889	750.683
4348	153.828	451.306	756.367
4349	155.936	451.721	762.028
4350	158.044	452.136	767.69

1180 10



11

SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010981

4351	754.906	1180.17	425.261
4352	755.563	1180.82	425.261
4353	756.221	1181.48	425.261
4354	756.879	1182.14	425.261
4355	757.538	1182.8	425.261
4356	758.199	1183.46	425.261
4357	758.859	1184.12	425.261
4358	759.519	1184.78	425.261
4359	760.179	1185.44	425.261
4360	760.839	1186.1	425.261
4361	761.498	1186.76	425.261
4362	762.156	1187.42	425.261
4363	762.814	1188.07	425.261
4364	763.471	1188.73	425.261
4365	764.126	1189.39	425.261
4366	764.78	1190.04	425.261
4367	765.432	1190.69	425.261
4368	766.083	1191.34	425.261
4369	766.45	1191.71	425.261
4370	766.524	1191.78	425.261
4371	766.575	1191.84	425.261
4372	766.079	1191.84	425.757
4373	765.045	1191.84	426.791
4374	764.007	1191.84	427.829
4375	762.977	1191.84	428.859
4376	761.977	1191.84	429.86
4377	761.024	1191.84	430.812
4378	760.132	1191.84	431.704
4379	759.298	1191.84	432.538
4380	758.89	1191.84	432.946
4381	758.879	1191.84	432.957
4382	758.866	1191.84	432.97
4383	758.851	1191.84	432.985
4384	758.836	1191.84	433
4385	758.853	1191.85	433
4386	758.904	1191.9	433
4387	758.961	1191.96	433
4388	759.024	1192.02	433
4389	759.092	1192.09	433
4390	759.151	1192.15	433
4391	759.199	1192.2	433
4392	759.246	1192.25	433
4393	759.293	1192.29	433
4394	759.34	1192.34	433
4395	759.387	1192.39	433
4396	759.437	1192.44	433
4397	759.493	1192.49	433
4398	759.556	1192.56	433
4399	759.625	1192.63	433
4400	759.702	1192.7	433
4401	759.785	1192.79	433
4402	759.876	1192.88	433
4403	759.957	1192.96	433
4404	760.026	1193.03	433
4405	760.097	1193.1	433
4406	760.166	1193.17	433

4351	159.799	452.551	772.517
4352	158.956	453.004	771.266
4353	158.123	453.452	770.028
4354	157.304	453.893	768.811
4355	156.498	454.326	767.614
4356	155.706	454.753	766.437
4357	155.09	454.776	765.06
4358	154.565	454.607	763.6
4359	154.048	454.44	762.164
4360	153.541	454.277	760.753
4361	153.041	454.116	759.365
4362	152.551	453.958	758.002
4363	152.041	453.384	756.141
4364	151.526	452.626	754.069
4365	151.004	451.858	751.972
4366	150.469	451.07	749.819
4367	149.92	450.261	747.61
4368	149.388	449.478	745.471
4369	95.6667	134.175	378.011
4370	95.4492	130.563	377.266
4371	66.8683	90.1082	264.346
4372	550.292	624.541	1021.72
4373	549.511	626.231	1030.33
4374	550.212	624.524	1034.91
4375	554.6	612.66	1026.88
4376	558.753	590.75	987.756
4377	561.25	562.377	918.69
4378	566.517	546.317	881.925
4379	573.213	531.257	858.403
4380	56.7271	61.279	147.788
4381	49.6662	53.6516	129.392
4382	74.6168	80.6043	194.395
4383	74.6168	80.6043	194.395
4384	74.6168	80.6043	194.395
4385	86.4328	155.995	381.397
4386	86.5982	156.933	381.978
4387	86.7291	157.809	382.405
4388	86.86	158.686	382.833
4389	86.9908	159.562	383.26
4390	83.6708	151.01	369.21
4391	83.6708	151.01	369.21
4392	83.6708	151.01	369.21
4393	83.6708	151.01	369.21
4394	83.6708	151.01	369.21
4395	83.6708	151.01	369.21
4396	86.5562	156.651	381.84
4397	86.7166	157.726	382.365
4398	86.8771	158.8	382.889
4399	87.0376	159.875	383.413
4400	87.2108	160.984	383.992
4401	87.6614	162.824	385.765
4402	88.112	164.665	387.538
4403	86.934	159.182	383.075
4404	86.9636	159.38	383.172
4405	86.9932	159.578	383.268
4406	86.8948	158.919	382.947

1673

382610

4407	760.23	1193.23	433
4408	760.591	1193.59	433
4409	760.538	1193.59	433.054
4410	759.8	1193.59	433.791
4411	759.126	1193.59	434.466
4412	758.515	1193.59	435.077
4413	757.967	1193.59	435.624
4414	757.484	1193.59	436.107
4415	757.066	1193.59	436.525
4416	756.711	1193.59	436.88
4417	756.418	1193.59	437.173
4418	756.188	1193.59	437.403
4419	756.021	1193.59	437.571
4420	755.94	1193.59	437.652
4421	755.932	1193.59	437.659
4422	755.941	1193.6	437.659
4423	755.945	1193.6	437.659
4424	755.945	1193.6	437.659
4425	755.945	1193.6	437.659
4426	755.945	1193.6	437.659
4427	755.945	1193.6	437.659
4428	755.945	1193.6	437.659
4429	755.945	1193.6	437.659
4430	755.945	1193.6	437.659
4431	755.945	1193.6	437.659
4432	755.945	1193.6	437.659
4433	755.945	1193.6	437.659
4434	755.945	1193.6	437.659
4435	755.945	1193.6	437.659
4436	755.945	1193.6	437.659
4437	755.945	1193.6	437.659
4438	755.945	1193.6	437.659
4439	755.945	1193.6	437.659
4440	755.945	1193.6	437.659
4441	755.945	1193.6	437.659
4442	755.945	1193.6	437.659
4443	755.945	1193.6	437.659
4444	755.945	1193.6	437.659
4445	755.945	1193.6	437.659
4446	755.945	1193.6	437.659
4447	755.945	1193.6	437.659
4448	755.945	1193.6	437.659
4449	755.945	1193.6	437.659
4450	755.945	1193.6	437.659
4451	755.945	1193.6	437.659
4452	755.945	1193.6	437.659
4453	755.945	1193.6	437.659
4454	755.945	1193.6	437.659
4455	755.945	1193.6	437.659
4456	755.945	1193.6	437.659
4457	755.945	1193.6	437.659
4458	755.945	1193.6	437.659
4459	755.945	1193.6	437.659
4460	755.945	1193.6	437.659
4461	755.945	1193.6	437.659
4462	755.945	1193.6	437.659

4407	86.764	158.043	382.519
4408	177.377	487.317	765.125
4409	577.533	521.612	845.344
4410	581.215	508.687	853.846
4411	578.943	502.446	843.559
4412	571.846	500.023	821.348
4413	561.579	501.458	814.906
4414	550.592	508.649	870.551
4415	534.076	507.118	895.692
4416	505.001	502.825	881.978
4417	464.94	498.838	860.666
4418	413.964	496.14	842.218
4419	349.16	493.218	810.847
4420	153.545	327.711	535.748
4421	93.7746	271.703	422.721
4422	98.5947	270.307	395.835
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4425	0	0	0
4426	0	0	0
4427	0	0	0
4428	0	0	0
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4430	0	0	0
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4455	0	0	0
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4457	0	0	0
4458	0	0	0
4459	0	0	0
4460	0	0	0
4461	0	0	0
4462	0	0	0

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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

010983

4463	755.945	1193.6	437.659
4464	755.945	1193.6	437.659
4465	755.945	1193.6	437.659
4466	755.945	1193.6	437.659
4467	755.945	1193.6	437.659
4468	755.945	1193.6	437.659
4469	755.945	1193.6	437.659
4470	755.945	1193.6	437.659
4471	755.945	1193.6	437.659
4472	755.945	1193.6	437.659
4473	755.945	1193.6	437.659
4474	755.945	1193.6	437.659
4475	755.945	1193.6	437.659
4476	755.945	1193.6	437.659
4477	755.945	1193.6	437.659
4478	755.945	1193.6	437.659
4479	755.945	1193.6	437.659
4480	755.945	1193.6	437.659
4481	755.945	1193.6	437.659
4482	755.945	1193.6	437.659
4483	755.945	1193.6	437.659
4484	755.945	1193.6	437.659
4485	755.945	1193.6	437.659
4486	755.945	1193.6	437.659
4487	755.945	1193.6	437.659
4488	755.945	1193.6	437.659
4489	755.945	1193.6	437.659
4490	755.945	1193.6	437.659
4491	755.945	1193.6	437.659
4492	755.945	1193.6	437.659
4493	755.945	1193.6	437.659
4494	755.945	1193.6	437.659
4495	755.945	1193.6	437.659
4496	755.945	1193.6	437.659
4497	755.945	1193.6	437.659
4498	755.945	1193.6	437.659
4499	755.945	1193.6	437.659
4500	755.945	1193.6	437.659
4501	755.945	1193.6	437.659
4502	755.945	1193.6	437.659
4503	755.945	1193.6	437.659
4504	755.945	1193.6	437.659
4505	755.945	1193.6	437.659
4506	755.945	1193.6	437.659
4507	755.945	1193.6	437.659
4508	755.945	1193.6	437.659
4509	755.945	1193.6	437.659
4510	755.945	1193.6	437.659
4511	755.945	1193.6	437.659
4512	755.945	1193.6	437.659
4513	755.945	1193.6	437.659
4514	755.945	1193.6	437.659
4515	755.945	1193.6	437.659
4516	755.945	1193.6	437.659
4517	755.945	1193.6	437.659
4518	755.945	1193.6	437.659

4463	0	0	0
4464	0	0	0
4465	0	0	0
4466	0	0	0
4467	0	0	0
4468	0	0	0
4469	0	0	0
4470	0	0	0
4471	0	0	0
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4473	0	0	0
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4475	0	0	0
4476	0	0	0
4477	0	0	0
4478	0	0	0
4479	0	0	0
4480	0	0	0
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SIMULACIONES, CÁLCULOS Y GRÁFICAS

ALSTOM

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