

The betas of the following four stocks are:

~~$\beta_1 = 1.235, \beta_2 = 0.268, \beta_3 = 1.997, \beta_4 = 2.45$~~

Assume that the market is in equilibrium with available risk-free asset of 6 %.

~~What will be the expected return of every of these stocks?~~

beta_i	rf	0.06	rm	0.14
1	1.235			
2	0.268			
3	1.997			
4	2.45			

ri	rie=rf+beta*(rM-rf)
1	0.1588
2	0.08144
3	0.21976
4	0.256

Year	r_M	r_i	r_j	β	β_j
1	10	9	22	0.899295065	2.20846
2	32	24	48	0.749451926	1.5011
3	20	14	30	0.698946312	1.50176
4	18	-2	-20	-0.115448968	-1.11935
5	17	16	29	0.940933255	1.7088
6	3	4	-3	1.341296928	-1.04778
7	12	8	21	0.664710813	1.7544
8	-5	0	-15	0.013806706	2.97239
9	18	12	28	0.66536531	1.55772
10	21	15	36	0.713330148	1.71667

	r_i	correlation a M	σ_i	$\text{cov}_{r_i,M}$	$\beta_i = \text{cov}_{r_i,M} / \text{var}_M$	r_{ie}	delta_i
S1	15.5	0.9	20	216	1.5	15.5	0
S2	9.2	0.8	9	86.4	0.6	9.2	0
S3	11.2	0.5	15	90	0.625	9.375	1.825
MP	12	1	12	144	1	12	
r_f	5	0	0				

Day	A	B	C	D	E	Market Index		
1	570	98.4	669.1	53.9	103.5	333.4		
2	569	98.2	715	53.8	103	338.9	-0.00176	-0.00203
3	563.8	96.6	725	53.2	101.9	346.8	-0.00918	-0.01643
4	575.3	96.5	716	53.9	100	347.8	0.020192	-0.00104
5	595.1	97	725	55.6	101.6	350.9	0.033838	0.005168
6	602.8	98.4	727.5	57	101.2	348.1	0.012856	0.01433
7	601.8	99	716.6	54.7	102	349.4	-0.00166	0.006079
8	601.3	105.4	721.5	55.6	101.6	354.2	-0.00083	0.062643
9	614.8	116.9	718.6	55.9	101.7	361.1	0.022203	0.103556
10	628.1	119.6	717.8	56.5	100.5	372.7	0.021402	0.022834
11	629	113.2	729.5	56.4	103.4	371.6	0.001432	-0.055
12	618.6	109.5	702.6	54.9	102.3	395.9	-0.01667	-0.03323
13	638	105	750.8	55	102.8	397.6	0.030879	-0.04196
14	656	104.9	789.7	56.6	99.8	406.1	0.027823	-0.00095
15	662	105.3	799.1	56.9	101.4	400.7	0.009105	0.003806
16	669.4	105.7	805	56	100.9	396.6	0.011116	0.003791
17	700.7	108.5	870	56.7	95.3	398.2	0.045698	0.026145
18	709	110.3	937.6	57	65.7	400.9	0.011776	0.016454
19	713	112.6	948.8	56.8	99.4	399.1	0.005626	0.020638
20	708	113.9	951.5	56.5	99.2	401.1	-0.00704	0.011479

rf=3% p. a.

rf for a trading day

1 year=250 TDs.

0.00012

E(ri)

0.011411 0.007699

cov_M

0.000267 0.000122
0.000122 0.001223
0.000257 -0.00011
0.00019 0.000168
-0.00025 -1.4E-05

Min_var

0.000534 0.000245
0.000245 0.002447
0.000514 -0.00021
0.000381 0.000337
-0.00051 -2.7E-05
1 1

Inv_M

3135.688 -308.358
-308.358 450.2518
-723.904 127.2655
-2041.71 -269.301
-61.714 0.141659
0.518336 0.091635

Tangency Portfolio

CovM

0.000267	0.000122
0.000122	0.001223
0.000257	-0.00011
0.00019	0.000168
-0.00025	-1.4E-05

Inv_M

7518.836	-396.182
-396.182	939.4912
-1270.21	285.9287
-3395.35	-416.959
-50.4356	13.18743

0.066349	-0.00186	-0.00484	0.016362
0.013889	-0.01122	-0.01074	0.023043
-0.01249	0.013072	-0.01882	0.002879
0.012491	0.031053	0.015873	0.008874
0.003442	0.024868	-0.00394	-0.00801
-0.0151	-0.04119	0.007874	0.003728
0.006815	0.016319	-0.00393	0.013644
-0.00403	0.005381	0.000984	0.019293
-0.00111	0.010676	-0.01187	0.031619
0.016168	-0.00177	0.028447	-0.00296
-0.03757	-0.02696	-0.0107	0.063344
0.066352	0.00182	0.004876	0.004285
0.050514	0.028676	-0.02962	0.021153
0.011833	0.005286	0.015905	-0.01339
0.007356	-0.01594	-0.00494	-0.01028
0.077651	0.012423	-0.0571	0.004026
0.07483	0.005277	-0.37193	0.006758
0.011875	-0.00351	0.414053	-0.0045
0.002842	-0.0053	-0.00201	0.004999

0.018532	0.002479	-0.00223	0.00973
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beta_i

0.000257	0.00019	-0.00025	-7.7E-05	-0.24623
-0.00011	0.000168	-1.4E-05	-2E-05	-0.06446
0.001071	0.000203	-0.0015	-0.00014	-0.46036
0.000203	0.00033	-0.00026	-5.8E-05	-0.18606
-0.0015	-0.00026	0.017557	-0.00035	-1.12845

0.000311

OLS

n	sum_Xi
sum_Xi	sum_Xi^2
	19 0.184868
	0.184868 0.007401

Inv_M

0.06953	-1.73677
-1.73677	178.499

VRS

0.000514	0.000381	-0.00051	1	0
-0.00021	0.000337	-2.7E-05	1	0
0.002143	0.000407	-0.00299	1	0
0.000407	0.000659	-0.00052	1	0
-0.00299	-0.00052	0.035114	1	0
1	1	1	0	1

wi

-723.904	-2041.71	-61.714	0.518336	1	0.518336
127.2655	-269.301	0.141659	0.091635	2	0.091635
713.6363	-162.924	45.92632	0.073796	3	0.073796
-162.924	2488.709	-14.7721	0.285904	4	0.285904
45.92632	-14.7721	30.41821	0.030329	5	0.030329
0.073796	0.285904	0.030329	-0.00043	lambda1	-0.00043

Proof

1

			VRS	E(ri)
0.000257	0.00019	-0.00025	0.011291	0.011411
-0.00011	0.000168	-1.4E-05	0.007579	0.007699
0.001071	0.000203	-0.0015	0.018412	0.018532
0.000203	0.00033	-0.00026	0.002359	0.002479
-0.0015	-0.00026	0.017557	-0.00235	-0.00223

			Zi	Wi
-1270.21	-3395.35	-50.4356	50.61254	1.28109
285.9287	-416.959	13.18743	6.896739	0.174568
1452.558	-227.887	102.2446	13.79127	0.349081
-227.887	5356.944	10.71687	-33.0782	-0.83727
102.2446	10.71687	65.10743	1.285067	0.032527

			sum_Zi	39.5074	1
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VRS

Sum_Yi

Sum_YiXi

0.216808	0.14628	0.352106	0.04711	-0.04243
0.00073	0.001062	0.000847	-0.00058	-0.00673

	A	B	C	D	E
alfa	0.013807	0.008326	0.023011	0.00429	0.008746
beta	-0.24623	-0.06446	-0.46036	-0.18606	-1.12845

VIG	PX	BRENT(USEXR(CZC/USD)	VIG	PX	BRENT(USEXR(CZC/USD)	VIG	PX	BRENT(USEXR(CZC/USD)
1 019.00	1 034.45	108.64	19.5985	0.003933	-0.00428	-0.00248	0.002529	
1 015.00	1 038.89	108.91	19.5490	0.018194	0.010333	-0.01377	0.007857	
996.70	1 028.21	110.42	19.3960	-0.002	-0.00093	0.001359	-0.01461	
998.70	1 029.17	110.27	19.6815	0.029158	0.011886	-0.00136	0.004941	
970.00	1 017.01	110.42	19.5845	-0.00103	0.011004	0.00472	-0.00682	
971.00	1 005.88	109.9	19.7185	-0.01796	-0.00715	-0.00218	0.000304	
988.60	1 013.10	110.14	19.7125	-0.00293	-0.00145	-0.01853	0.002972	
991.50	1 014.57	112.2	19.6540	0.007085	0.018543	-0.00036	0.007354	
984.50	995.93	112.24	19.5100	0.010209	0.003208	-0.00639	-0.00358	
974.50	992.74	112.96	19.5800	-0.02142	-0.02094	-0.01398	0.003453	
995.60	1 013.75	114.55	19.5125	0.017938	0.013586	0.007096	0.007898	
977.90	1 000.07	113.74	19.3590	0.01359	0.007034	-0.00395	0.00225	
964.70	993.06	114.19	19.3155	0.000726	-0.01068	-0.01771	0.01122	
964.00	1 003.72	116.23	19.1000	0.000519	0.002814	-0.00694	0.008307	
963.50	1 000.90	117.04	18.9420	-0.01279	-0.00278	-0.00307	-0.00432	
975.90	1 003.69	117.4	19.0240	0.021649	0.004624	-0.00916	0.003581	
955.00	999.06	118.48	18.9560	-0.01404	-0.01073	0.000422	0.005501	
968.50	1 009.84	118.43	18.8520	0.024669	0.007425	0.00457	0.00146	
944.90	1 002.37	117.89	18.8245	0.005199	0.003408	-0.00339	-0.00066	
940.00	998.96	118.29	18.8370	-0.00043	0.004847	-0.00514	-0.0022	
940.40	994.13	118.9	18.8785	-0.02375	0.008039	0.014657	0.001856	
963.00	986.17	117.17	18.8435	-0.00941	-0.01267	0.001196	-0.00106	
972.10	998.74	117.03	18.8635	-0.0275	-0.00876	0.008323	-0.00668	
999.20	1 007.53	116.06	18.9900	-0.0038	-0.00917	0.004404	0.008408	
1 003.00	1 016.81	115.55	18.8310	0.000998	-0.00454	0	-0.00371	
1 002.00	1 021.44	115.55	18.9010	0.007011	0.003511	0.001126	0.001112	
995.00	1 017.86	115.42	18.8800	0	-0.00207	0.001734	-0.00741	
995.00	1 019.97	115.22	19.0205	-0.00801	0.007282	0.011347	-0.00428	
1 003.00	1 012.57	113.92	19.1020	0.002996	-0.01151	0.000351	0.006249	
1 000.00	1 024.29	113.88	18.9830	-0.01784	0.002375	-0.00622	-0.00709	
1 018.00	1 021.86	114.59	19.1180	0.021948	-0.00484	0.007973	-0.00548	
995.90	1 026.82	113.68	19.2230	0.011005	0.00152	0.008481	-0.00148	
985.00	1 025.26	112.72	19.2515	-0.01	-0.01669	0.009001	0.000857	
994.90	1 042.52	111.71	19.2350	0.006049	0.000249	0.006286	0.007174	
988.90	1 042.26	111.01	19.0975	0.004053	0.002834	0.00036	-0.0066	
984.90	1 039.31	110.97	19.2240	-0.00203	-0.00291	-0.00674	-0.00088	
986.90	1 042.34	111.72	19.2410	-0.00314	-0.00487	0.003587	0.006832	
990.00	1 047.43	111.32	19.1100	-0.01404	-0.00597	0.009205	-0.00548	
1 004.00	1 053.70	110.3	19.2150	0.019106	0.005348	-0.02392	-0.00483	
985.00	1 048.08	112.97	19.3080	-0.02209	-0.01708	-0.00088	-0.01549	
1 007.00	1 066.14	113.07	19.6095	-0.02258	0.004644	0.000354	0.004703	
1 030.00	1 061.20	113.03	19.5175	-0.0087	0.006239	0.004789	0.001795	
1 039.00	1 054.60	112.49	19.4825	0.005792	-0.00743	-0.0008	0.003806	
1 033.00	1 062.47	112.58	19.4085	0.00388	-0.00054	-0.00399	0.002502	
1 029.00	1 063.04	113.03	19.3600	-0.00581	-0.00279	0.000442	0.01271	
1 035.00	1 066.01	112.98	19.1155	0.034401	0.025953	0.026276	0.006008	
1 000.00	1 038.70	110.05	19.0010	0.002002	0.002651	9.09E-05	0.002345	

998.00	1 035.95	110.04	18.9565	-0.01788	-0.00041	0.008304	-0.00581
1 016.00	1 036.38	109.13	19.0670	0.021891	0.002502	-0.01311	0.002521
994.00	1 033.79	110.57	19.0190	0.005953	-0.00723	0.005623	-0.00063
988.10	1 041.29	109.95	19.0310	0.011297	0.009921	-9.1E-05	-5.3E-05
977.00	1 031.01	109.96	19.0320	0	0.019243	0.005563	-0.00762
977.00	1 011.36	109.35	19.1775	0.014433	0.003308	0.00064	0.000756
963.00	1 008.02	109.28	19.1630	0.00939	0.00581	-0.0082	-0.0079
954.00	1 002.18	110.18	19.3150	-0.00105	0.000589	9.08E-05	-0.00018
955.00	1 001.59	110.17	19.3185	0.001992	0.008996	0.023604	-0.00485
953.10	992.62	107.6	19.4125	0.005365	0.006854	-0.00602	-0.00586
948.00	985.84	108.25	19.5265	-0.01049	-0.00776	0.01012	0.001538
958.00	993.52	107.16	19.4965	0.008702	-0.00606	-0.0079	0.002876
949.70	999.56	108.01	19.4405	0.00708	0.001832	-0.00876	0.007616
943.00	997.73	108.96	19.2930	0.011733	0.003444	-0.00941	0.000907
932.00	994.30	109.99	19.2755	0.005919	-3E-05	-0.01157	-0.00233
926.50	994.33	111.27	19.3205	0.003243	-0.00299	0.003872	-0.00642
923.50	997.31	110.84	19.4450	0.012531	0.005197	0.003344	0.001235
912.00	992.14	110.47	19.4210	0.029939	0.016791	0.020208	-0.00432
885.10	975.62	108.26	19.5050	-0.01112	-0.01978	-0.00984	-0.00399
895.00	995.11	109.33	19.5830	0.002685	0.01199	-0.00774	0.004555
892.60	983.25	110.18	19.4940	0.003142	0.006479	0.000363	-0.00182
889.80	976.90	110.14	19.5295	0.025958	0.014705	-0.00606	-0.01645
867.00	962.64	110.81	19.8535	0.006828	-0.00778	0.007246	0.003633
861.10	970.16	110.01	19.7815	-0.0022	-0.00446	-0.00045	0.000126
863.00	974.50	110.06	19.7790	0.014003	0.004422	0.029974	-0.01368
851.00	970.20	106.81	20.0515	-0.00831	0.000876	-0.03006	0.004273
858.10	969.35	110.07	19.9660	-0.01089	-0.00509	0.003732	-0.00065
867.50	974.30	109.66	19.9790	0.022617	0.008369	0.00769	-0.00437
848.10	966.18	108.82	20.0665	-0.01079	-0.01179	-0.01287	0.004996
857.30	977.64	110.23	19.9665	-0.00035	-0.00223	0.014806	0
857.60	979.82	108.61	19.9665	-0.00917	-0.00568	0.012787	0.001077
865.50	985.40	107.23	19.9450	-0.00058	-0.00402	-0.0091	0.002887
866.00	989.37	108.21	19.8875	0.005674	-0.0062	-0.00975	0.008915
861.10	995.52	109.27	19.7110	0.023025	0.00738	0.034258	0.001498
841.50	988.20	105.59	19.6815	0.009672	0.007384	-0.0113	0.000534
833.40	980.93	106.79	19.6710	0.005897	0.005284	-0.01901	0.010271
828.50	975.76	108.84	19.4700	0.003991	0.005014	-0.0096	0.005614
825.20	970.88	109.89	19.3610	-0.00459	0.001412	0.004469	0.004192
829.00	969.51	109.4	19.2800	0.000603	0.010941	0.00064	-0.00608
828.50	958.96	109.33	19.3975	0.012632	-0.00541	0.003941	0.006232
818.10	964.16	108.9	19.2770	-0.00269	-0.01298	0.011638	-0.00114
820.30	976.76	107.64	19.2990	0.002686	0.000543	-0.00019	0.001348
818.10	976.23	107.66	19.2730	0.003674	0.003993	0.001208	0.004524
815.10	972.34	107.53	19.1860	-0.01268	-0.01801	-0.01925	0.007009
825.50	990.01	109.62	19.0520	-0.00242	0.001739	-0.0205	-0.00176
827.50	988.29	111.89	19.0855	-0.00578	-0.00546	-0.00615	0.006149
832.30	993.70	112.58	18.9685	0.00012	-0.00176	-0.00805	0.005206
832.20	995.45	113.49	18.8700	-0.003	0.000794	-0.01322	-0.00666

834.70	994.66	115	18.9960	0.000839	0.007883	0	-0.01281
834.00	986.85	115	19.2410	0.004808	0.000923	-0.00148	-0.00322
830.00	985.94	115.17	19.3030	0.000603	0.000254	-0.00873	0.001555
829.50	985.69	116.18	19.2730	-0.00181	0.002133	0.000603	-0.00443
831.00	983.59	116.11	19.3585	-0.01363	-0.00241	0.015536	-0.0024
842.40	985.96	114.32	19.4050	-0.00012	0.000446	0.01516	0.008929
842.50	985.52	112.6	19.2325	0.00643	-0.00021	0.003826	0.008171
837.10	985.73	112.17	19.0760	0.00359	0.017593	0.015181	-0.00439
834.10	968.54	110.48	19.1600	0	0.004999	0.010555	-0.0124
834.10	963.71	109.32	19.3990	0.0012	0.003409	-0.02858	0.001315
833.10	960.43	112.49	19.3735	0.003728	-0.00752	-0.0008	-0.00481
830.00	967.68	112.58	19.4670	0.013586	0.014888	0.010896	0.00484
818.80	953.38	111.36	19.3730	-0.01419	0.009739	0.021512	-0.00108
830.50	944.14	108.99	19.3940	-0.00552	-0.02071	-0.0162	0.002711
835.10	963.90	110.77	19.3415	-0.00418	0.003534	0.014275	0.002303
838.60	960.50	109.2	19.2970	-0.0135	-0.0027	-0.01878	0.008796
850.00	963.10	111.27	19.1280	0.023811	0.007818	0.016857	-0.00506
830.00	955.60	109.41	19.2250	0.010903	-0.01124	0.008444	0.007702
821.00	966.40	108.49	19.0775	-0.01102	-0.00062	-0.04329	0.002966
830.10	967.00	113.29	19.0210	0.004225	-0.00289	-0.02966	0.016218
826.60	969.80	116.7	18.7150	-0.00435	-0.00832	-0.00666	0.008586
830.20	977.90	117.48	18.5550	0.024262	0.025163	0.012678	-0.01304
810.30	953.60	116	18.7985	-0.02076	-0.01116	0.009876	-0.00935
827.30	964.30	114.86	18.9750	0.006062	0.011368	0	0.002744
822.30	953.40	114.86	18.9230	-0.00811	-0.00262	0.00892	-0.01825
829.00	955.90	113.84	19.2715	-0.00301	-0.01299	0.001758	0.00575
831.50	968.40	113.64	19.1610	0.006515	0.017185	-0.00754	-0.01584
826.10	951.90	114.5	19.4670	-0.00109	0.007593	0.010359	-0.01088
827.00	944.70	113.32	19.6800	0.004484	-0.00063	-0.01454	-0.00668
823.30	945.30	114.98	19.8120	0.005359	-0.00706	0.009174	0.002375
818.90	952.00	113.93	19.7650	-0.0011	0.014176	0.014588	-0.00671
819.80	938.60	112.28	19.8980	0.00575	0.00032	-0.00222	0.005948
815.10	938.30	112.53	19.7800	-0.00367	-0.0051	-0.0008	0.00456
818.10	943.10	112.62	19.6900	-0.00961	-0.01128	-0.0099	-0.00895
826.00	953.80	113.74	19.8670	0.007656	0.008423	-0.0176	-0.00096
819.70	945.80	115.76	19.8860	-0.02065	-0.00968	-0.01449	0.003022
836.80	955.00	117.45	19.8260	-0.00679	-0.00178	0.014407	-0.00521
842.50	956.70	115.77	19.9295	0.023417	0.006502	-0.00224	0.001481
823.00	950.50	116.03	19.9000	0.009523	0.012279	0.004578	-0.0132
815.20	938.90	115.5	20.1645	-0.00453	-0.00975	0.002601	-0.0026
818.90	948.10	115.2	20.2170	0.006002	0.007517	-0.00795	0.006575
814.00	941.00	116.12	20.0845	0.007893	0.006504	0.005267	-0.01008
807.60	934.90	115.51	20.2880	-0.00395	0.00461	0.014036	-0.00167
810.80	930.60	113.9	20.3220	-0.01165	0.009501	-0.00508	-0.00224
820.30	921.80	114.48	20.3675	0.000854	-0.00498	0.011863	-0.00218
819.60	926.40	113.13	20.4120	-0.02005	0.001945	-0.00344	0.001103
836.20	924.60	113.52	20.3895	0.035172	0.010656	0.000881	0.003267
807.30	914.80	113.42	20.3230	-0.00272	-0.00338	0.009123	0.003055

809.50	917.90	112.39	20.2610	0.016818	0.004586	0.021404	-0.00182
796.00	913.70	110.01	20.2980	0.020562	0.015997	0.004008	-0.00386
779.80	899.20	109.57	20.3765	0.02047	0.011071	0.018608	-0.01987
764.00	889.30	107.55	20.7855	-0.03738	-0.00561	0.007185	0.003398
793.10	894.30	106.78	20.7150	-0.00378	0.00336	0.007992	0.006684
796.10	891.30	105.93	20.5770	0.007439	-0.01647	-0.00574	0.000656
790.20	906.10	106.54	20.5635	0.006602	0.011544	0.002255	0.001363
785.00	895.70	106.3	20.5355	0.017995	0.008409	0.014498	-0.0044
771.00	888.20	104.77	20.6260	0.009513	0.00973	0.023369	-0.01614
763.70	879.60	102.35	20.9615	-0.00496	0.001024	-0.01185	-0.01016
767.50	878.70	103.57	21.1755	0.001434	0.003648	-0.00328	0.003264
766.40	875.50	103.91	21.1065	-0.04416	-0.02537	-0.02912	0.002942
801.00	898.00	106.98	21.0445	0.012563	-0.01305	-0.00754	0.018198
791.00	909.80	107.79	20.6650	0.011699	0.009054	0.017501	0.004389
781.80	901.60	105.92	20.5745	-0.00523	-0.00685	0.016276	0.001995
785.90	907.80	104.21	20.5335	0.005359	0.007075	0.020455	-0.0059
781.70	901.40	102.1	20.6550	-0.00447	-0.0031	0.001863	-0.00507
785.20	904.20	101.91	20.7600	0.004084	0.008106	0.027154	-0.00289
782.00	896.90	99.18	20.8200	-0.0051	-0.01109	-0.0005	0.00815
786.00	906.90	99.23	20.6510	-0.00406	0.002982	0.000807	-0.00365
789.20	904.20	99.15	20.7265	-0.02577	-0.00463	-0.00794	0.003286
809.80	908.40	99.94	20.6585	-0.00885	-0.00472	0.0005	0.021183
817.00	912.70	99.89	20.2255	0.002451	0.001316	0.04725	-0.00363
815.00	911.50	95.28	20.2990	0.012346	0.011697	0.011718	0.007243
805.00	900.90	94.17	20.1525	0.043154	0.022791	0.034022	-0.02753
771.00	880.60	91.02	20.7150	0.006506	-0.00645	-0.01136	-0.00077
766.00	886.30	92.06	20.7310	-0.00039	0.002485	0.020522	-0.00058
766.30	884.10	90.19	20.7430	0.003661	0.006468	0.016771	0.002051
763.50	878.40	88.69	20.7005	-0.03222	-0.02385	-0.00596	0.00944
788.50	899.60	89.22	20.5060	-0.00443	-0.00278	0	-0.0037
792.00	902.10	89.22	20.5820	0.021569	0.006004	-0.04686	0.022305
775.10	896.70	93.5	20.1280	0.015734	-0.00378	-0.01739	0.004531
763.00	900.10	95.14	20.0370	0.021193	0.017144	-0.00074	-0.01491
747.00	884.80	95.21	20.3380	0.00134	-0.00079	-0.01997	0.010752
746.00	885.50	97.13	20.1205	0.024425	0.010901	0.006922	-0.00293
728.00	875.90	96.46	20.1795	0.002613	0.002744	-0.00857	-0.00571
726.10	873.50	97.29	20.2950	-0.00467	0.003555	0.007221	-0.01273
729.50	870.40	96.59	20.5550	0.00674	-0.0104	-0.0206	0.000657
724.60	879.50	98.6	20.5415	-0.01234	-0.00736	0.010501	0.011925
733.60	886.00	97.57	20.2980	-0.00544	-0.00776	-0.0251	0.005806
737.60	892.90	100.05	20.1805	0.005574	0.01319	-0.01084	-0.00203
733.50	881.20	101.14	20.2215	0.004783	0.007518	0.024927	-0.01682
730.00	874.60	98.65	20.5645	0.017969	0.01231	0.009267	-0.00066
717.00	863.90	97.74	20.5780	0.009811	0.005455	-0.00906	-0.00775
710.00	859.20	98.63	20.7380	-0.0144	-0.00742	-0.05167	-0.00375
720.30	865.60	103.86	20.8160	-0.02698	-0.01274	9.63E-05	0.000625
740.00	876.70	103.85	20.8030	0.002706	-0.0016	-0.03501	0.020666
738.00	878.10	107.55	20.3775	0.02178	0.009727	-0.00288	0.006425

722.10	869.60	107.86	20.2470	-0.04057	-0.01098	0.006138	-0.00188
752.00	879.20	107.2	20.2850	0.015951	0.001252	0.00299	0.001184
740.10	878.10	106.88	20.2610	0.015112	-0.00477	-0.02659	0.016246
729.00	882.30	109.76	19.9345	0.030643	0.010368	0.006765	0.017254
707.00	873.20	109.02	19.5935	0.002124	0.005052	0.009122	-0.00871
705.50	868.80	108.03	19.7650	0.002697	0.001267	-0.01178	-0.01591
703.60	867.70	109.31	20.0820	-0.00482	-0.00906	-0.00447	0.002368
707.00	875.60	109.8	20.0345	-0.00282	-0.00046	-0.01447	-0.0049
709.00	876.00	111.4	20.1330	-0.04819	-0.01944	0.005491	0.01779
744.00	893.20	110.79	19.7780	-0.03435	-0.0183	-0.01532	0.010726
770.00	909.70	112.5	19.5670	-0.00389	-0.00242	0.002314	0.00284
773.00	911.90	112.24	19.5115	0.024621	0.020832	0.003123	-0.00274
754.20	893.10	111.89	19.5650	-0.02008	-0.0287	0.002058	0.015971
769.50	919.10	111.66	19.2550	-0.00454	-0.00629	-0.03736	0.010651
773.00	924.90	115.91	19.0510	-0.00619	-0.00904	-0.01422	0.004524
777.80	933.30	117.57	18.9650	0.006449	-0.00577	-0.00923	0.006215
772.80	938.70	118.66	18.8475	0.008186	0.003949	-0.00538	0.005747
766.50	935.00	119.3	18.7395	0.024432	0.005147	-0.00025	-0.00354
748.00	930.20	119.33	18.8060	-0.006	-0.00536	0.01588	0.004824
752.50	935.20	117.45	18.7155	0.020813	0.014107	-0.00247	-0.00931
737.00	922.10	117.74	18.8905	0.004624	0.011891	0.009215	-0.00709
733.60	911.20	116.66	19.0250	-0.03535	-0.01708	-0.0121	0.008287
760.00	926.90	118.08	18.8680	0.014446	0.009866	0.009188	-0.00169
749.10	917.80	117	18.9000	-0.01181	-0.00543	0.015678	0.001006
758.00	922.80	115.18	18.8810	-0.00906	0.00217	-0.01918	0.001245
764.90	920.80	117.41	18.8575	0.014353	0.00163	-0.00696	0.000133
754.00	919.30	118.23	18.8550	-0.01448	-0.01232	-0.02001	0.000318
765.00	930.70	120.62	18.8490	-0.00807	-0.00994	0.000415	0.002523
771.20	940.00	120.57	18.8015	-0.02155	0.000106	0.001328	-0.00832
788.00	939.90	120.41	18.9585	0.036048	0.015223	-0.01222	-5.3E-05
760.10	925.70	121.89	18.9595	-0.03223	-0.0101	-0.01377	0.005819
785.00	935.10	123.58	18.8495	-0.00381	-0.01127	0.004379	0.005053
788.00	945.70	123.04	18.7545	-0.00872	-0.02041	-0.02107	0.0076
794.90	965.20	125.66	18.6125	-0.00239	-0.00259	0.009756	0.002044
796.80	967.70	124.44	18.5745	-0.02577	-0.00556	0.008312	-0.0007
817.60	973.10	123.41	18.5875	0.003185	0.003913	0.00146	-0.00056
815.00	969.30	123.23	18.5980	-0.0339	-0.0182	-0.00953	0.004257
843.10	987.10	124.41	18.5190	0.008457	-0.00334	-0.00673	0.005035
836.00	990.40	125.25	18.4260	0.018106	0.002932	-0.00478	-0.00024
821.00	987.50	125.85	18.4305	-0.00849	-0.00051	0.005098	-0.00662
828.00	988.00	125.21	18.5530	-0.00181	-0.00222	0.021963	-0.01043
829.50	990.20	122.49	18.7475	-0.01329	-0.00161	-0.01136	0.004839
840.60	991.80	123.89	18.6570	0.00477	-0.00081	-0.00395	0.008748
836.60	992.60	124.38	18.4945	-0.01589	-0.00633	-0.01103	0.000352
850.00	998.90	125.76	18.4880	-0.00575	0.004716	0.005342	-0.00593
854.90	994.20	125.09	18.5980	0.024152	0.001107	0.01174	-0.00809
834.50	993.10	123.63	18.7490	0.000599	-0.00652	-0.02674	-0.00879
834.00	999.60	126.98	18.9145	0.05041	0.006725	-0.00909	0.007003

793.00	992.90	128.14	18.7825	0.013968	0.007075	0.006813	0.00566
782.00	985.90	127.27	18.6765	-0.0265	-0.0121	-0.00634	-0.00481
803.00	997.90	128.08	18.7665	0.003743	0.001404	0.000937	0.005343
800.00	996.50	127.96	18.6665	-0.00012	0.006039	0.020448	-0.01137
800.10	990.50	125.37	18.8800	0.000125	0.00101	0.002716	-0.00578
800.00	989.50	125.03	18.9895	-0.02469	-0.01355	-0.01311	0.012666
820.00	1 003.00	126.68	18.7505	-0.0204	-0.01475	0.005938	0.000774
836.90	1 017.90	125.93	18.7360	0.003471	-0.00039	0.001351	0.007151
834.00	1 018.30	125.76	18.6025	0.006013	0.006502	0.028471	-0.0048
829.00	1 011.70	122.23	18.6920	-0.00517	0.018455	-0.01454	0.010163
833.30	993.20	124.02	18.5030	0.00036	-0.01052	-0.01948	-0.00571
833.00	1 003.70	126.46	18.6090	0.014511	0.002394	0.012493	0.00156
821.00	1 001.30	124.89	18.5800	-0.01451	0.006714	0.002887	-0.0078
833.00	994.60	124.53	18.7255	-0.00551	-0.01942	0.011793	-0.01421
837.60	1 014.10	123.07	18.9935	-0.01352	-0.00187	0.018203	0.010639
849.00	1 016.00	120.85	18.7925	-0.03347	0.000591	0.001325	-0.01156
877.90	1 015.40	120.69	19.0110	0.013648	0.019391	-0.00257	-0.00105
866.00	995.90	121	19.0310	0.006371	-0.01059	0.006218	-0.01367
860.50	1 006.50	120.25	19.2930	-0.02807	0.00179	0.016349	0.008668
885.00	1 004.70	118.3	19.1265	0.022858	-0.00566	-0.00363	0.005873
865.00	1 010.40	118.73	19.0145	0.034101	0.019589	0.005066	-0.00666
836.00	990.80	118.13	19.1415	-0.04674	-0.03472	-0.00228	0.014073
876.00	1 025.80	118.4	18.8740	-0.00966	0.001561	0.010358	0.0087
884.50	1 024.20	117.18	18.7105	0.027393	0.021614	0.002735	0.000962
860.60	1 002.30	116.86	18.6925	-0.00568	-0.00894	0.011966	-0.01661
865.50	1 011.30	115.47	19.0055	0.007538	0.001484	0.025524	0.001632
859.00	1 009.80	112.56	18.9745	0.022248	0.011354	0.014317	-0.00549
840.10	998.40	110.96	19.0790	0.008487	0.01524	-0.00897	-0.00306
833.00	983.30	111.96	19.1375	0.003608	0.012279	0.0153	-0.01164
830.00	971.30	110.26	19.3615	0.004226	0.024492	0.000181	0.006633
826.50	947.80	110.24	19.2335	-0.0162	-0.02088	-0.00236	0.012609
840.00	967.80	110.5	18.9925	-0.03509	-0.01059	0.012934	-0.01139
870.00	978.10	109.08	19.2100	0.033902	0.033581	0.005516	-0.0033
841.00	945.80	108.48	19.2735	0.000238	-0.00169	0.000922	-0.00894
840.80	947.40	108.38	19.4465	0.002143	-0.01008	-0.00992	0.000283
839.00	957.00	109.46	19.4410	0.010062	0.022936	0.008809	-0.0112
830.60	935.30	108.5	19.6600	0.024497	0.01867	-0.00954	0.00812
810.50	918.00	109.54	19.5010	0.019309	0.01714	-0.00246	-0.01691
795.00	902.40	109.81	19.8335	0.031952	0.014511	-0.00672	-0.0137
770.00	889.40	110.55	20.1070	-0.04196	-0.00135	0.006079	-0.00555
803.00	890.60	109.88	20.2190	0.009258	-0.00783	-0.02773	0.014823
795.60	897.60	112.97	19.9215	0.007064	0.007829	0.011664	-0.02104
790.00	890.60	111.66	20.3450	0.016464	-0.00816	-0.01458	0.007573
777.10	897.90	113.3	20.1915	-0.00129	0.014019	0.019879	0.001462
778.10	885.40	111.07	20.1620	-0.02086	-0.01011	-0.00798	-0.0081
794.50	894.40	111.96	20.3260	0.00568	-0.00824	-0.01445	0.00513
790.00	901.80	113.59	20.2220	-0.02005	-0.02799	0.001939	0.012039
806.00	927.40	113.37	19.9800	-0.0111	-0.00741	0.020046	0.013732

815.00	934.30	111.12	19.7075	0.018701	0.025145	0.027646	-0.00251
799.90	911.10	108.09	19.7570	0.027632	0.005724	0.011164	-0.00585
778.10	905.90	106.89	19.8730	-0.02626	0.000883	-0.00606	-0.00274
798.80	905.10	107.54	19.9275	-0.0015	0.007207	-0.01605	0.007707
800.00	898.60	109.28	19.7745	0.020203	0.00782	0.002749	0.004333
784.00	891.60	108.98	19.6890	0.052368	0.013323	0.009033	0.002772
744.00	879.80	108	19.6345	0.018997	0.013618	0.001854	0.005823
730.00	867.90	107.8	19.5205	0	0.017551	0.030612	-0.00136
730.00	852.80	104.55	19.5470	0	-0.00456	0.005275	0.005386
730.00	856.70	104	19.4420	0.053748	-0.00047	-0.00499	-0.00562
691.80	857.10	104.52	19.5515	0.001157	0.003858	-0.01142	-0.01167
691.00	853.80	105.72	19.7810	-0.03134	-0.00979	-0.03284	0.004154
713.00	862.20	109.25	19.6990	0.015548	0.002439	0.013176	0.010666
702.00	860.10	107.82	19.4900	-0.02671	-0.01523	-0.00083	0.025357
721.00	873.30	107.91	19.0020	0.01763	-0.00343	-0.00296	-0.00585
708.40	876.30	108.23	19.1135	-0.02825	-0.00421	-0.01686	0.015847
728.70	880.00	110.07	18.8130	-0.00861	-0.01119	-0.00082	-0.00125
735.00	889.90	110.16	18.8365	0.005457	-0.01251	-0.00018	0.00343
731.00	901.10	110.18	18.7720	0.013774	0.014419	0.005369	0.000533
721.00	888.20	109.59	18.7620	0.038167	0.01646	0.006959	0.001841
694.00	873.70	108.83	18.7275	-0.00861	-0.00593	-0.02172	-0.00466
700.00	878.90	111.22	18.8150	0.045296	0.04123	-0.00027	-0.01942
669.00	843.40	111.25	19.1840	0.013544	-0.01868	0.016952	-0.00758
660.00	859.30	109.38	19.3300	0.042402	0.019151	0.030635	-0.01855
632.60	843.00	106.08	19.6920	-0.02559	-0.00261	-0.00705	0.021481
649.00	845.20	106.83	19.2735	-0.00767	-0.0013	-0.00876	0.0219
654.00	846.30	107.77	18.8560	-0.03397	-0.0107	0.016749	-0.00442
676.60	855.40	105.98	18.9395	-0.0251	-0.01773	-0.01721	0.005214
693.80	870.70	107.82	18.8410	0.001154	-0.01787	-0.03723	-0.01219
693.00	886.40	111.91	19.0720	-0.01575	-0.0063	8.94E-05	0.002888
704.00	892.00	111.9	19.0170	-0.03558	-0.01701	-0.00597	0.004268
729.50	907.30	112.57	18.9360	-0.00219	-0.00297	-0.01639	0.015192
731.10	910.00	114.43	18.6505	0.018081	0.008608	0.009748	-0.01361
718.00	902.20	113.32	18.9060	-0.01589	-0.00221	-0.01724	0.004958
729.50	904.20	115.29	18.8125	-0.02838	-0.0054	-0.00277	0.032111
750.50	909.10	115.61	18.2180	-0.0004	0.008284	0.007467	-0.00093
750.80	901.60	114.75	18.2350	-0.01218	-0.0177	0.022295	0.007293
760.00	917.70	112.22	18.1025	0.026533	-0.00576	0.013096	0.001935
740.10	923.00	110.76	18.0675	0.002841	0.019252	-0.00054	-0.01377
738.00	905.40	110.82	18.3180	0.017083	0.008987	0.035359	-0.00642
725.50	897.30	106.97	18.4360	-0.04843	-0.03612	-0.01356	0.026827
761.50	930.30	108.43	17.9480	-0.04469	-0.03931	-0.0364	0.031842
796.30	967.60	112.45	17.3855	0.076846	0.015624	0.018127	-0.03451
737.40	952.60	110.43	17.9960	0.00394	0.00801	-0.0151	0.003897
734.50	945.00	112.11	17.9260	0.010264	0.004986	0.003932	0.004081
727.00	940.30	111.67	17.8530	0.013851	0.009618	0.000627	-0.00678
717.00	931.30	111.6	17.9745	0.009107	0.016674	0.023573	-0.01137
710.50	915.90	109	18.1800	-0.00379	-0.01151	-0.02501	0.00488

713.20	926.50	111.76	18.0915	0.016398	0.001512	-0.00286	-0.00381
701.60	925.10	112.08	18.1605	-0.0095	0.007704	-0.00747	0.004581
708.30	918.00	112.92	18.0775	-0.00169	-0.01931	-0.01241	0.015329
709.50	935.90	114.33	17.8025	0.01491	-0.00639	0.01658	-0.00925
699.00	941.90	112.45	17.9680	-0.01561	-0.00624	8.89E-05	0.005133
710.00	947.80	112.44	17.8760	0.037161	0.025107	0.029056	-0.01708
684.10	924.30	109.22	18.1840	-0.00714	-0.00926	-0.00247	0.005625
689.00	932.90	109.49	18.0820	-0.01741	-0.01827	0.027125	-0.0287
701.10	950.10	106.56	18.6085	0.002285	0.013671	0.02067	0.010562
699.50	937.20	104.38	18.4130	0.046078	0.041169	0.005861	-0.00655
668.00	899.40	103.77	18.5340	0.041259	0.009159	0.018774	-0.00602
641.00	891.20	101.84	18.6460	-0.04425	-0.02919	-0.01723	-0.01168
670.00	917.60	103.61	18.8650	-0.02724	-0.01761	-0.01732	0.022867
688.50	933.90	105.42	18.4385	-0.0117	-0.00789	-0.01562	0.019966
696.60	941.30	107.08	18.0740	0.023237	0.007357	-0.02271	0.004353
680.60	934.40	109.54	17.9955	0.039867	0.035623	0.015085	-0.01053
654.00	901.70	107.9	18.1860	0.037388	0.042593	-0.0117	-0.00472
630.00	864.10	109.17	18.2720	-0.05045	-0.03614	-0.00037	-0.01007
662.60	895.90	109.21	18.4570	-0.05491	-0.03628	-0.0452	0.005705
700.00	929.00	114.26	18.3520	-0.00214	0.023746	-0.00114	0.014075
701.50	907.20	114.39	18.0955	0.030393	-0.00022	0.0132	0.004847
680.50	907.40	112.89	18.0080	-0.07636	-0.0464	-0.02942	0.019316
734.50	950.50	116.26	17.6635	0.088485	-0.01773	-0.00386	-8.5E-05
672.30	967.50	116.71	17.6650	0.021196	0.023213	0.03142	-0.01017
658.20	945.30	113.1	17.8455	-0.00576	-0.00137	-0.00863	-0.00581
662.00	946.60	114.08	17.9495	-0.02536	-0.00053	-0.00586	-0.00209
679.00	947.10	114.75	17.9870	-0.05877	-0.03802	-0.00305	0.001001
720.10	983.80	115.1	17.9690	-0.02942	-0.02361	-0.0248	0.025419
741.60	1 007.30	117.99	17.5180	0.009484	0.012588	0.004162	0.010732
734.60	994.70	117.5	17.3310	0.000817	0.021338	0.036487	-0.00879
734.00	973.70	113.29	17.4840	-0.0415	-0.05017	-0.02295	0.017249
765.10	1 023.80	115.92	17.1850	-0.02313	-0.0156	-0.00439	0.01495
783.00	1 039.90	116.43	16.9300	0.010528	-0.00814	-0.00043	0.009496
774.80	1 048.40	116.48	16.7700	0.025755	0.017512	0.00767	0.006521
755.10	1 030.20	115.59	16.6610	0.013332	0.01516	0.028965	0.003698
745.10	1 014.70	112.29	16.5995	-0.01716	-0.0101	0.00339	-0.01646
758.00	1 025.00	111.91	16.8750	0.00715	0.010001	0	0.000178
752.60	1 014.80	111.91	16.8720	0.013376	0.015992	0.014038	-0.00056
742.60	998.70	110.35	16.8815	0.002022	-0.0009	0.01387	-0.01011
741.10	999.60	108.83	17.0530	0.019209	0.011268	-0.00495	0.002319
727.00	988.40	109.37	17.0135	-0.01502	-0.01745	0.009278	-0.00273
738.00	1 005.80	108.36	17.0600	-0.06555	-0.01617	-0.0274	0.007797
788.00	1 022.20	111.37	16.9275	0.0138	0.016572	0.0152	0.000207
777.20	1 005.40	109.69	16.9240	-0.02076	-0.01127	0.00732	0.00459
793.50	1 016.80	108.89	16.8465	0.025011	0.028025	0.006634	-0.00801
773.90	988.70	108.17	16.9820	0.01484	0.001316	0.003241	-0.00353
762.50	987.40	107.82	17.0420	0.022011	0.008135	0.037612	-0.00284
745.90	979.40	103.84	17.0905	-0.01226	-0.02171	0.002024	0.021977

755.10	1 000.90	103.63	16.7190	-0.03883	-0.02613	0.005516	-0.01808
785.00	1 027.40	103.06	17.0240	-0.02888	-0.06135	-0.03677	0.005537
808.00	1 092.40	106.92	16.9300	-0.06365	-0.02558	-0.0304	-0.01762
861.10	1 120.70	110.22	17.2310	-0.04006	-0.02198	-0.03144	0.018923
896.30	1 145.60	113.74	16.9080	0.000781	-0.01954	-0.01985	-0.01088
895.60	1 168.20	116.02	17.0930	0.001229	-0.00937	-0.00301	0.00734
894.50	1 179.20	116.37	16.9680	-0.00846	0.003398	0.003788	0.010188
902.10	1 175.20	115.93	16.7960	-0.00321	-0.00068	-0.01905	-0.00368
905.00	1 176.00	118.16	16.8580	-0.01241	-0.00365	0.00144	-0.00024
916.30	1 180.30	117.99	16.8620	0.006899	-0.00482	-0.00127	0.005829
910.00	1 186.00	118.14	16.7640	-0.0184	-0.01564	-0.0011	-0.01292
926.90	1 204.70	118.27	16.9820	0.006386	0	-0.00607	0.001002
921.00	1 204.70	118.99	16.9650	0.013665	-0.00464	0.006238	-5.9E-05
908.50	1 210.30	118.25	16.9660	0.020573	0.013811	-0.00228	-0.01521
890.00	1 193.70	118.52	17.2260	0.021006	0.006893	0.002873	-0.00562
871.50	1 185.50	118.18	17.3230	0.002873	-0.00101	0.009608	-0.00133
869.00	1 186.70	117.05	17.3460	-0.01666	-0.01048	-0.00859	0.006101
883.60	1 199.20	118.06	17.2405	0.002379	-0.00167	0.005776	-0.00304
881.50	1 201.20	117.38	17.2930	0.000454	-0.00324	-0.00916	0.005683
881.10	1 205.10	118.46	17.1950	-0.00385	0.0085	0.009329	-0.00768
884.50	1 194.90	117.36	17.3275	-0.0147	-0.00609	8.52E-05	0.00289
897.60	1 202.20	117.35	17.2775	-0.03707	-0.01437	-0.00043	0.019255
931.50	1 219.60	117.4	16.9480	-0.01078	-0.00865	0	0.004969
941.60	1 230.20	117.4	16.8640	0.005965	-0.0043	0.066744	0.010521
936.00	1 235.50	109.82	16.6875	0.033681	0.008208	-0.01706	-0.00568
905.00	1 225.40	111.71	16.7825	0.01346	0.007454	0.001971	-0.00283
892.90	1 216.30	111.49	16.8300	0.01569	0.018756	0.035793	-0.00881
879.00	1 193.70	107.57	16.9790	-0.00906	0.001845	0.028285	-0.00499
887.00	1 191.50	104.57	17.0640	-0.0223	-0.01152	-0.0021	-0.00852
907.00	1 205.30	104.79	17.2100	-0.00165	-0.00414	-0.03267	0.00981
908.50	1 210.30	108.27	17.0420	-0.00395	-0.01215	-0.04797	0.005708
912.10	1 225.10	113.59	16.9450	-0.00547	-0.00399	0.013918	0.00681
917.10	1 230.00	112.02	16.8300	0.012288	0.015155	-0.00169	-0.00048
905.90	1 211.50	112.21	16.8380	-0.00452	-0.00412	-0.01354	-0.00059
910.00	1 216.50	113.74	16.8480	-0.01635	0.002057	-0.00832	-0.01016
925.00	1 214.00	114.69	17.0200	-0.01927	-0.00959	0.000174	-0.00612
943.00	1 225.70	114.67	17.1245	0.00053	0.000326	-0.04835	0.023366
942.50	1 225.30	120.35	16.7290	0.010131	-0.00098	-0.00116	-0.00131
933.00	1 226.50	120.49	16.7510	0.006128	0.009091	0.014883	-0.00666
927.30	1 215.40	118.71	16.8630	0.006709	0.007184	-0.01039	0.013733
921.10	1 206.70	119.95	16.6330	-0.01498	-0.00965	0.012753	0.001625
935.00	1 218.40	118.43	16.6060	-0.00958	-0.00532	0.019526	0.007283
944.00	1 224.90	116.14	16.4855	0.004246	-0.00049	0.006392	-0.01125
940.00	1 225.50	115.4	16.6720	-0.01897	-0.00497	0.00269	0.002853
958.00	1 231.60	115.09	16.6245	0.008386	-0.0068	0.006888	-0.01581
950.00	1 240.00	114.3	16.8895	-0.00901	-0.00467	-0.01606	-0.01528
958.60	1 245.80	116.15	17.1495	-0.00167	-0.00249	-0.00883	0.005262
960.20	1 248.90	117.18	17.0595	-0.00146	0.007959	0.020084	-0.00354

961.60	1 239.00	114.85	17.1200	0.008459	-0.00177	-0.00183	-0.01634
953.50	1 241.20	115.06	17.4020	-0.00481	8.06E-05	0.005141	-0.00487
958.10	1 241.10	114.47	17.4870	-0.00104	-0.00434	0.017182	0.004528
959.10	1 246.50	112.52	17.4080	0.008376	0.001445	0.021469	-0.00438
951.10	1 244.70	110.13	17.4845	-0.01036	-0.0084	-0.01012	0.011534
961.00	1 255.20	111.25	17.2840	-0.00984	0.000877	-0.01738	0.012927
970.50	1 254.10	113.2	17.0620	0.002063	0.007524	0.005847	-0.00712
968.50	1 244.70	112.54	17.1840	0.00819	-0.00561	0.028389	0.000582
960.60	1 251.70	109.39	17.1740	0.010254	-0.00383	-0.03882	-0.00407
950.80	1 256.50	113.72	17.2440	-0.03737	-0.0073	0.005644	-0.00261
987.00	1 265.70	113.08	17.2890	0.001521	0.004752	0.001859	0.012221
985.50	1 259.70	112.87	17.0790	-0.01371	-0.00665	-0.02442	-0.00053
999.10	1 268.10	115.66	17.0880	0.012692	0.002606	-0.0185	0.015689
986.50	1 264.80	117.82	16.8220	0.003452	-0.00103	0.039914	-0.00332
983.10	1 266.10	113.21	16.8780	0.008581	0.003006	-0.00423	-0.00464
974.70	1 262.30	113.69	16.9565	-0.00031	0.002697	0.015602	0.019443
975.00	1 258.90	111.93	16.6300	-0.00522	-0.01106	-0.08245	0.020043
980.10	1 272.90	121.55	16.3000	0.006654	0.007966	-0.02004	-0.0008
973.60	1 262.80	124.01	16.3130	-0.00195	-0.00969	-0.02099	0.002209
975.50	1 275.10	126.64	16.2770	-0.0045	0.008585	0.000395	-0.00012
979.90	1 264.20	126.59	16.2790	0.009639	0.000475	0.01312	-0.00193
970.50	1 263.60	124.94	16.3105	0.007654	0.012102	0.003126	-0.00684
963.10	1 248.40	124.55	16.4225	-0.01637	-0.00511	0.007333	-0.00852
979.00	1 254.80	123.64	16.5630	0.007587	0.010334	-0.005	-0.00746
971.60	1 241.90	124.26	16.6870	0.001648	0.007598	0.023697	-0.00936
970.00	1 232.50	121.35	16.8440	0.016528	0.007493	-0.0028	-0.00769
954.10	1 223.30	121.69	16.9740	-0.04107	-0.01356	-0.02387	0.010899
994.10	1 240.00	124.63	16.7900	-0.00492	0.003878	0.015281	0.005435
999.00	1 235.20	122.74	16.6990	-0.01589	-0.01159	0.000326	-0.01028
1 015.00	1 249.60	122.7	16.8715	-0.00098	0.010054	0.011228	0.000415
1 016.00	1 237.10	121.33	16.8645	-0.00295	-0.02127	-0.04141	-0.00219
1 019.00	1 263.70	126.46	16.9015	0.003933	-0.00568	0.001266	-0.0146
1 015.00	1 270.90	126.3	17.1500	0	-0.00134	0.027289	0.003271
1 015.00	1 272.60	122.9	17.0940	0.001972	-0.0022	-0.00089	0.002959
1 013.00	1 275.40	123.01	17.0435	0.021352	0.009137	0.001139	-0.00535
991.60	1 263.80	122.87	17.1350	-0.00603	-0.00316	0.023052	-0.00361
997.60	1 267.80	120.07	17.1970	0.005629	0.008317	0.012066	0.000262
992.00	1 257.30	118.63	17.1925	-0.00523	0	0.014348	-0.00756
997.20	1 257.30	116.94	17.3230	-0.00779	-0.00278	0.01369	-0.00288
1 005.00	1 260.80	115.35	17.3730	-0.01187	0.001588	-0.00199	0.000115
1 017.00	1 258.80	115.58	17.3710	0.003941	0.001113	-0.0032	-0.00282
1 013.00	1 257.40	115.95	17.4200	0.007929	0.009589	0.004322	0.003162
1 005.00	1 245.40	115.45	17.3650	-0.01285	0.004426	0.000347	0.004386
1 018.00	1 239.90	115.41	17.2890	0.027789	0.011682	-0.00208	-0.00214
990.10	1 225.50	115.65	17.3260	-0.0005	0.004826	0.000173	0.006892
990.60	1 219.60	115.63	17.2070	-0.01044	-0.00278	0.006159	0.00361
1 001.00	1 223.00	114.92	17.1450	-0.0188	0.009613	0.006898	-0.00538
1 020.00	1 211.30	114.13	17.2375	0.045633	0.003722	-0.00044	-0.00964

974.50	1 206.80	114.18	17.4045	0.007209	0.004235	0.028606	-0.01324
967.50	1 201.70	110.96	17.6365	0.020888	-0.0039	-0.00135	0.012294
947.50	1 206.40	111.11	17.4210	-0.01238	-0.00141	-0.01642	0.002097
959.30	1 208.10	112.95	17.3845	-0.02948	-0.00734	-0.00987	-0.00493
988.00	1 217.00	114.07	17.4705	-0.02991	0.003952	0	-0.00994
1 018.00	1 212.20	114.07	17.6450	0.000983	-0.00658	-0.00977	0.010454
1 017.00	1 220.20	115.19	17.4615	0.007897	0.00082	0.025231	0.000487
1 009.00	1 219.20	112.32	17.4530	-0.02157	-0.00278	-0.03723	0.007419
1 031.00	1 222.60	116.58	17.3240	-0.00387	-0.00847	0.007491	-0.00251
1 035.00	1 233.00	115.71	17.3675	0.024451	-0.00405	0.011211	-0.00224
1 010.00	1 238.00	114.42	17.4065	0.003968	0.007052	-0.02136	-0.00593
1 006.00	1 229.30	116.89	17.5100	-0.01186	-0.00106	0.030841	-0.01102
1 018.00	1 230.60	113.34	17.7040	-0.00294	-0.01091	0.009485	0.003423
1 021.00	1 244.10	112.27	17.6435	0.0148	0.002334	0.007151	-0.00824
1 006.00	1 241.20	111.47	17.7895	0	0.002581	-0.02165	0.001575
1 006.00	1 238.00	113.91	17.7615	-0.02552	-0.00298	0.037021	-0.00553
1 032.00	1 241.70	109.77	17.8600	-0.0058	0.000242	0.027242	-0.00592
1 038.00	1 241.40	106.82	17.9660	-0.02003	0.003389	0.044213	0.006842
1 059.00	1 237.20	102.2	17.8435	0.031657	0.005105	-0.01216	-0.00176
1 026.00	1 230.90	103.45	17.8750	-0.02026	-0.01548	0.006498	0.001176
1 047.00	1 250.10	102.78	17.8540	0.006708	0.002162	0.002923	-0.01158
1 040.00	1 247.40	102.48	18.0620	0.004819	-0.00312	-0.00623	0.001856
1 035.00	1 251.30	103.12	18.0285	0.009709	0.010524	0.031423	0.008607
1 025.00	1 238.20	99.93	17.8740	-0.01164	0.001859	-0.00807	0.001764
1 037.00	1 235.90	100.74	17.8425	-0.00864	-0.01214	0.005774	0.011981
1 046.00	1 251.00	100.16	17.6300	0.021257	0.005049	0.009127	0.001022
1 024.00	1 244.70	99.25	17.6120	0.015748	-0.00353	-0.00191	-0.00764
1 008.00	1 249.10	99.44	17.7470	0.006969	-0.00447	0.000101	0.004518
1 001.00	1 254.70	99.43	17.6670	0.023654	0.017122	-0.02248	0.004226
977.60	1 233.40	101.69	17.5925	0.003689	-0.01024	0.003843	0.007102
974.00	1 246.10	101.3	17.4680	0.009283	-0.00064	0.008924	0.005597
965.00	1 246.90	100.4	17.3705	0.010312	0.008052	0.014345	-0.01718
955.10	1 236.90	98.97	17.6715	-0.00616	0.008118	0.019487	-0.00828
961.00	1 226.90	97.06	17.8185	0.018272	-0.01697	0.005994	0.013134
943.60	1 247.90	96.48	17.5860	0.005313	0.002648	0.004571	-0.00392
938.60	1 244.60	96.04	17.6550	-0.00192	0.008067	-0.00747	-0.00091
940.40	1 234.60	96.76	17.6710	0.00149	-0.01711	0	-0.00367
939.00	1 255.90	96.76	17.7360	-0.01228	-0.00975	-0.00083	-0.00604
950.60	1 268.20	96.84	17.8435	0.001263	0.010702	0.005903	-0.01048
949.40	1 254.70	96.27	18.0315	-0.00588	-0.01346	-0.02209	0.000388
955.00	1 271.70	98.42	18.0245	-0.00522	-0.00361	0.006013	-0.00804
960.00	1 276.30	97.83	18.1700	0.015114	0.027081	-0.00031	-0.0028
945.60	1 242.20	97.86	18.2210	-0.02815	-0.00386	0	-0.00175
972.60	1 247.00	97.86	18.2530	0	0.002248	0	-0.01503
972.60	1 244.20	97.86	18.5295	0.008882	0.01156	0.010891	-0.01757
964.00	1 229.90	96.8	18.8580	0.008229	0.012353	0.018244	-0.00871
956.10	1 214.80	95.05	19.0230	-0.0134	-0.02319	0.008452	5.26E-05
969.00	1 243.30	94.25	19.0220	-0.02043	-0.00785	-0.0074	0.004795

989.00	1 253.10	94.95	18.9310	0.004053	0.008415	-0.00126	0.003015
985.00	1 242.60	95.07	18.8740	-0.00304	-0.00929	0.016438	0.009208
988.00	1 254.20	93.52	18.7010	-0.00666	0.008648	-0.0243	-0.00302
994.60	1 243.40	95.82	18.7575	-0.001	0.015072	0.035263	-0.00831
995.60	1 224.80	92.5	18.9140	-0.0094	-0.00821	-0.01097	-0.01214
1 005.00	1 234.90	93.52	19.1450	0.000996	0.012221	0	-0.0085
1 004.00	1 219.90	93.52	19.3085	0.003992	0.002955	0.004716	0.002048
1 000.00	1 216.30	93.08	19.2690	0	-0.00574	-0.00589	0.000675
1 000.00	1 223.30	93.63	19.2560	0.003005	-0.00033	0.000855	-0.00265
997.00	1 223.70	93.55	19.3070	0.013125	0.007958	0.004714	0.001036
984.00	1 214.00	93.11	19.2870	-0.01122	0.012099	0.019521	0.001609
995.10	1 199.40	91.31	19.2560	0.135385	0.009803	0.002193	0.007585
869.10	1 187.70	91.11	19.1105	-0.10467	-0.01022	0.00022	0.00501
965.00	1 199.90	91.09	19.0150	-0.01553	0.006186	-0.00263	-0.00105
980.10	1 192.50	91.33	19.0350	-0.00407	0.00336	0.007694	0.013434
984.10	1 188.50	90.63	18.7810	-0.01302	-0.00804	0.002541	-0.00101
997.00	1 198.10	90.4	18.8000	0.006036	0.014291	0.009559	-0.0125
991.00	1 181.10	89.54	19.0365	0.023482	0.010212	-0.00435	0.005135
968.00	1 169.10	89.93	18.9390	0.006634	0.002741	0.002115	0.003729
961.60	1 165.90	89.74	18.8685	0.002603	-0.00786	-0.01152	-0.00119
959.10	1 175.10	90.78	18.8910	0.030703	8.51E-05	-0.00516	0.006372
930.10	1 175.00	91.25	18.7710	-0.01801	0.007689	0.006597	0.008184
947.00	1 166.00	90.65	18.6180	0.008377	0.000257	0.014221	-0.0126
939.10	1 165.70	89.37	18.8540	0.033678	0.014865	0.009105	-0.0095
908.00	1 148.50	88.56	19.0340	0.00885	0.036622	0.0291	-0.00959
900.00	1 107.20	86.02	19.2175	-0.01116	-0.0106	0.001396	0.013806
910.10	1 119.00	85.9	18.9540	-0.01093	-0.00668	0.013124	0.014963
920.10	1 126.50	84.78	18.6725	-0.01927	0.000888	0.002953	0.006582
938.00	1 125.50	84.53	18.5500	0.006954	0.003115	0.025885	0.003754
931.50	1 122.00	82.37	18.4805	-0.03284	-0.01723	0.000364	0.018321
962.60	1 141.50	82.34	18.1450	0.006253	-0.00489	-0.01003	0.005332
956.60	1 147.10	83.17	18.0485	0.005871	-0.00331	-0.00635	-0.00108
951.00	1 150.90	83.7	18.0680	0.020933	0.006451	-0.00334	-0.00958
931.30	1 143.50	83.98	18.2420	-0.00268	-0.00314	-0.01782	0.007538
933.80	1 147.10	85.49	18.1050	-0.01509	-0.00738	-0.00676	0.006594
948.00	1 155.60	86.07	17.9860	0.016485	0.013065	-0.02308	-0.00316
932.50	1 140.60	88.08	18.0430	-0.01384	-0.01462	0.001818	0.009523
945.50	1 157.40	87.92	17.8720	-0.01376	-0.01254	-0.00011	0.001344
958.60	1 172.00	87.93	17.8480	-0.00146	0.006763	0.00891	0.011722
960.00	1 164.10	87.15	17.6400	0.004071	-0.0018	0.001148	0.007568
956.10	1 166.20	87.05	17.5070	0.000837	-0.00633	0.00253	0.013427
955.30	1 173.60	86.83	17.2735	-0.01527	0.004526	0.017426	-0.0013
970.00	1 168.30	85.33	17.2960	0.002581	0.00644	0.007292	-0.00927
967.50	1 160.80	84.71	17.4570	0.006013	0.002847	0.007703	-0.01003
961.70	1 157.50	84.06	17.6330	0.004272	0.001297	0.019096	-0.0015
957.60	1 156.00	82.47	17.6595	-0.01554	-0.00681	0.014658	-0.01484
972.60	1 163.90	81.27	17.9235	0.011686	0.008109	-0.01647	0.015774
961.30	1 154.50	82.62	17.6430	-0.00083	-0.00311	0.008631	0.005228

962.10	1 158.10	81.91	17.5510	0.006884	0.017421	0.014263	0.000228
955.50	1 138.10	80.75	17.5470	0.006826	-0.00167	-0.00654	-0.01291
949.00	1 140.00	81.28	17.7750	0.001793	0.007307	-0.00491	0.012226
947.30	1 131.70	81.68	17.5590	-0.02368	-0.00423	0.00688	-0.01688
970.00	1 136.50	81.12	17.8580	-0.00473	0.002555	-0.01444	0.023599
974.60	1 133.60	82.3	17.4415	-0.00604	-0.00747	0.004384	-0.00435
980.50	1 142.10	81.94	17.5175	-0.01116	-0.00018	-0.01946	0.004205
991.50	1 142.30	83.55	17.4440	0.002929	-0.00837	-0.00549	-0.00503
988.60	1 151.90	84.01	17.5320	-0.00404	0.010384	0.012216	0.001484
992.60	1 140.00	82.99	17.5060	-0.01837	-0.01004	-0.00108	-0.00692
1 011.00	1 151.50	83.08	17.6275	0.017864	0.008635	-0.00958	0.004549
993.10	1 141.60	83.88	17.5475	-0.00201	-0.00359	0.002507	-0.00514
995.10	1 145.70	83.67	17.6380	0.008173	0.002272	-0.01589	0.004745
987.00	1 143.10	85.01	17.5545	0.018405	0.011969	0.01972	-0.00718
969.00	1 129.50	83.35	17.6810	-0.00463	0.000974	-0.00084	-0.01585
973.50	1 128.40	83.42	17.9635	0.005666	0.001508	0.008789	0.005107
968.00	1 126.70	82.69	17.8720	0.005075	-0.00434	0.023493	-0.00816
963.10	1 131.60	80.77	18.0185	0.008446	0.009768	0.02482	-0.00155
955.00	1 120.60	78.79	18.0465	0.012539	-0.00906	0.013802	-0.01261
943.10	1 130.80	77.71	18.2755	0.018298	-0.00441	-0.01304	0.000848
926.00	1 135.80	78.73	18.2600	-0.00657	0.005651	0.013298	-0.0116
932.10	1 129.40	77.69	18.4730	-0.00918	0.000177	0.005162	0.007171
940.70	1 129.20	77.29	18.3410	-0.00371	-0.00741	-0.01884	-0.01386
944.20	1 137.60	78.76	18.5970	-0.00095	0.003699	-0.00834	-0.01311
945.10	1 133.40	79.42	18.8425	-0.01042	0.005751	0.025376	-0.00231
955.00	1 126.90	77.43	18.8860	0.007357	-0.01103	-0.01868	-0.00066
948.00	1 139.40	78.89	18.8985	0	-0.00245	0.005466	-0.0005
948.00	1 142.20	78.46	18.9080	0.001055	-0.00454	-0.00547	-0.01149
947.00	1 147.40	78.89	19.1265	0.004763	-0.00174	0.004701	0.000445
942.50	1 149.40	78.52	19.1180	0.007455	0.009265	0.012559	-0.01822
935.50	1 138.80	77.54	19.4695	0.009667	-0.00351	-0.00425	-0.0008
926.50	1 142.80	77.87	19.4850	-0.00108	0.006056	0.005021	0.009488
927.50	1 135.90	77.48	19.3010	-0.00269	-0.0085	0.022185	-0.0111
930.00	1 145.60	75.78	19.5165	-0.00107	-0.02201	0.009946	0.016324
931.00	1 171.10	75.03	19.2005	-0.00172	-0.00604	0.001334	-0.00304
932.60	1 178.20	74.93	19.2590	0.00118	0.01859	-0.00798	-0.00879
931.50	1 156.50	75.53	19.4290	0.029856	0.013405	0.000265	-0.00383
904.10	1 141.10	75.51	19.5035	-0.04583	-0.01185	-0.00713	-0.00504
946.50	1 154.70	76.05	19.6020	0.016512	0.002515	0.011772	0.010926
931.00	1 151.80	75.16	19.3890	0.01657	0.003305	0.00882	-0.00678
915.70	1 148.00	74.5	19.5210	0.007894	0.005153	0.051788	-0.00811
908.50	1 142.10	70.74	19.6800	0	-0.00889	0.001839	-0.00218
908.50	1 152.30	70.61	19.7230	-0.02178	-0.02384	-0.03438	0.006639
928.50	1 180.10	73.08	19.5925	-0.00805	0.005779	-0.00546	0.001788
936.00	1 173.30	73.48	19.5575	-0.00426	-0.0127	-0.01834	0.010434
940.00	1 188.30	74.84	19.3545	0.032435	0.003119	-0.00347	0.004843
910.00	1 184.60	75.1	19.2610	-0.0022	-0.01016	-0.0216	0.000597
912.00	1 196.70	76.74	19.2495	-0.00175	0.01236	0.028819	-0.00676

913.60	1 182.00	74.56	19.3800	-0.00109	0.007217	-0.00775	-0.00581
914.60	1 173.50	75.14	19.4930	0.010552	0.005554	-0.01964	0.008061
905.00	1 167.00	76.63	19.3365	-0.02488	-0.00564	-0.01554	-0.00013
927.80	1 173.60	77.83	19.3390	-0.01264	-0.01581	-0.02612	0.032211
939.60	1 192.30	79.89	18.7260	-0.01741	-0.00602	-0.02044	0.001764
956.10	1 199.50	81.54	18.6930	0.007875	0.000334	0.003194	-0.00192
948.60	1 199.10	81.28	18.7290	-0.00305	0.001669	-0.01974	-0.00155
951.50	1 197.10	82.9	18.7580	0.002736	-0.00732	-0.01032	0.002429
948.90	1 205.90	83.76	18.7125	0.009424	0.013525	0.001912	-0.00163
940.00	1 189.70	83.6	18.7430	0.025209	-0.0005	0.020178	0.001388
916.60	1 190.30	81.93	18.7170	0.00558	0.013278	0.055587	-0.01453
911.50	1 174.60	77.5	18.9910	-0.01373	-0.0142	-0.01409	0.001265
924.10	1 191.40	78.6	18.9670	-0.00851	0.006315	0.024992	-0.00203
932.00	1 183.90	76.66	19.0055	0.014918	-0.00463	0.014983	-0.0138
918.20	1 189.40	75.52	19.2695	0.02414	0.011926	-0.03103	-0.0035
896.30	1 175.30	77.9	19.3370	0.00134	0.007601	0.00812	-0.00662
895.10	1 166.40	77.27	19.4655	-0.00613	-0.00291	-0.00413	-0.00244
900.60	1 169.80	77.59	19.5130	0.021096	0.008154	0.024	-0.01253
881.80	1 160.30	75.75	19.7590	0.01808	0.015372	-0.00737	0.00487
866.00	1 142.60	76.31	19.6630	-0.01331	-0.00428	0.000262	0.005099
877.60	1 147.50	76.29	19.5630	-0.00953	-0.00487	0.009747	-0.00487
886.00	1 153.10	75.55	19.6585	-0.01856	-0.01873	0.000397	0.000738
902.60	1 174.90	75.52	19.6440	0.000554	8.51E-05	-0.01459	-0.01906
902.10	1 174.80	76.63	20.0220	0.01688	0.00213	0.002352	0.002475
887.00	1 172.30	76.45	19.9725	0.001693	0.020337	0.027853	-0.00718
885.50	1 148.70	74.35	20.1165	-0.00181	0.000784	-0.01137	0.004334
887.10	1 147.80	75.2	20.0295	-0.00551	0.006117	0.008547	-1E-04
892.00	1 140.80	74.56	20.0315	0.002245	0.020636	0.021556	-0.00739
890.00	1 117.50	72.97	20.1800	-0.00683	-0.00134	0.016861	-0.01187
896.10	1 119.00	71.75	20.4210	0.020861	0.017034	0.000279	-0.00635
877.60	1 100.10	71.73	20.5510	-0.00681	-0.00345	-0.04378	-0.02176
883.60	1 103.90	74.94	21.0030	-0.02294	-0.00884	0.009789	-0.00783
904.10	1 113.70	74.21	21.1680	-0.00881	-0.01824	-0.03248	0.010209
912.10	1 134.20	76.66	20.9530	0.00011	0.003179	0.005887	0.006536
912.00	1 130.60	76.21	20.8165	-0.01361	-0.00644	0.01374	-0.00501
924.50	1 137.90	75.17	20.9210	0.004879	-0.01058	-0.00066	0.002393
920.00	1 150.00	75.22	20.8710	-0.01521	-0.01929	-0.03732	-0.00597
934.10	1 172.40	78.08	20.9960	0.01033	-0.01103	-0.00575	0.003148
924.50	1 185.40	78.53	20.9300	0.004119	0.017445	0.019026	0.007096
920.70	1 164.90	77.05	20.7820	0.01433	0.005855	-0.00608	-0.00038
907.60	1 158.10	77.52	20.7900	0.033613	-0.00276	0.018225	-0.00552
877.60	1 161.30	76.12	20.9050	0.015502	0.002932	0.010964	0.004555
864.10	1 157.90	75.29	20.8100	0.002897	0.003981	0.002394	-0.00628
861.60	1 153.30	75.11	20.9410	0.022299	0.006786	0.024666	-0.01575
842.60	1 145.50	73.28	21.2735	0.004162	0.011237	-0.01423	0.000329
839.10	1 132.70	74.33	21.2665	0.01986	0.02268	0.008783	-0.01755
822.60	1 107.30	73.68	21.6430	0.014819	0.0038	0.031013	-0.00351
810.50	1 103.10	71.43	21.7190	-0.02148	-0.01019	0.004771	-0.00652

828.10	1 114.40	71.09	21.8610	0.012272	-0.01858	-0.01049	0.005895
818.00	1 135.30	71.84	21.7325	-0.06519	-0.04116	-0.01766	0.022475
873.10	1 183.00	73.12	21.2495	0.013259	0.020496	0.004661	0.011525
861.60	1 159.00	72.78	21.0060	-0.00162	0.00415	-0.00411	-0.00052
863.00	1 154.20	73.08	21.0170	-0.00808	-0.01343	0.001095	-0.00323
870.00	1 169.80	73	21.0850	0.013773	0.021166	-0.00764	0.019927
858.10	1 145.30	73.56	20.6690	0.041764	0.009034	0.041213	-0.01729
823.00	1 135.00	70.59	21.0295	0.032102	0.034053	0.049513	0.014393
797.00	1 097.00	67.18	20.7290	-0.04658	-0.05291	-0.03568	0.00331
835.00	1 156.60	69.62	20.6605	0.010837	0.017619	-0.01185	0.014308
826.00	1 136.40	70.45	20.3670	-0.0199	-0.00527	0.012714	-0.01511
842.60	1 142.40	69.56	20.6770	0.000119	-0.04107	-0.03253	0.007817
842.50	1 190.30	71.86	20.5160	-0.01192	-0.02095	-0.04437	-0.02436
852.60	1 215.50	75.12	21.0220	0.00659	0.018601	0.01678	0.02378
847.00	1 193.10	73.87	20.5280	-0.00858	-0.00134	-0.03407	-0.0036
854.30	1 194.70	76.43	20.6020	-0.02634	-0.02537	-0.03825	0.015704
877.10	1 225.40	79.41	20.2810	0.011005	-0.00821	0.008981	0.007399
867.50	1 235.50	78.7	20.1315	0.022735	0.023255	-0.0038	-0.00067
848.00	1 207.10	79	20.1450	-0.02676	-0.02107	0.011714	0.004976
871.00	1 232.80	78.08	20.0450	0.027941	0.072487	0.020705	-0.00373
847.00	1 146.60	76.48	20.1200	-0.07339	-0.02888	-0.04762	-0.02832
911.50	1 180.20	80.21	20.6980	0.004398	-0.01229	-0.02584	0.018185
907.50	1 194.80	82.31	20.3250	-0.03092	-0.05003	-0.03674	0.019274
936.00	1 256.10	85.39	19.9370	-0.02072	-0.02088	-0.03113	0.028594
955.60	1 282.60	88.09	19.3750	0.0022	0.005159	0.021805	0.005071
953.50	1 276.00	86.19	19.2770	0.020128	-0.00071	-0.00728	0.002545
934.50	1 276.90	86.82	19.2280	0.015638	0.005103	0.026021	-0.00586
920.00	1 270.40	84.59	19.3410	-0.04537	-0.0218	-0.01175	-0.00505
962.70	1 298.40	85.59	19.4390	-0.01064	-0.0124	-0.01312	0.023843
973.00	1 314.60	86.72	18.9810	0.001028	0.016877	0.007291	0.000527
972.00	1 292.60	86.09	18.9710	-0.00257	0.012534	0.017695	-0.00688
974.50	1 276.50	84.58	19.1020	0.004525	-0.00897	0.000355	0.011981
970.10	1 288.00	84.55	18.8745	-0.01219	0.002721	-0.00213	0.002998
982.00	1 284.50	84.73	18.8180	0.019434	-0.00109	0.019545	0.001729
963.10	1 285.90	83.09	18.7855	-0.00611	-0.00736	-0.02049	0.008419
969.00	1 295.40	84.81	18.6280	-0.00515	-0.00677	-0.02434	0.006409
974.00	1 304.20	86.9	18.5090	0.000103	0.008161	0.012622	0.008464
973.90	1 293.60	85.81	18.3530	-0.01336	0.030293	0.028008	-0.00554
987.00	1 255.00	83.44	18.4550	0.000507	0.005994	-0.02099	-0.00338
986.50	1 247.50	85.21	18.5175	-0.00263	0.010638	0.029053	-0.00807
989.10	1 234.30	82.77	18.6675	0.014768	0.011817	0.001693	-0.00564
974.60	1 219.80	82.63	18.7730	-0.00909	-0.019	-0.02226	-0.00518
983.50	1 243.20	84.49	18.8705	-0.01864	0.005727	-0.00661	0.002627
1 002.00	1 236.10	85.05	18.8210	-0.00299	0.007063	0.006724	0.001116
1 005.00	1 227.40	84.48	18.8000	0.008895	0.003755	0.022142	0.007367
996.10	1 222.80	82.63	18.6620	0.009684	0.021492	0.027732	-0.00827
986.50	1 196.80	80.37	18.8170	-0.00968	-0.01328	0.011387	-0.00403
996.10	1 212.80	79.46	18.8930	-0.0089	0.00695	-0.0054	0.002172

1 005.00	1 204.40	79.89	18.8520	0.016959	-0.00522	0.024198	-0.00613
988.10	1 210.70	77.98	18.9680	0.005175	0.011464	-0.00843	-0.00693
983.00	1 196.90	78.64	19.1000	0.016411	0.010921	0.007787	0.001546
967.00	1 183.90	78.03	19.0705	-0.01019	-0.00278	-0.0145	0.011418
976.90	1 187.20	79.17	18.8540	-0.00215	0.00177	0.013735	0.005185
979.00	1 185.10	78.09	18.7565	-0.00102	-0.0032	-0.00358	-0.00093
980.00	1 188.90	78.37	18.7740	0.020515	-0.01635	-0.02171	0.005689
960.10	1 208.50	80.09	18.6675	-0.00156	-0.00791	-0.00237	0.010311
961.60	1 218.10	80.28	18.4760	0.003125	0.013389	0.010393	-2.7E-05
958.60	1 201.90	79.45	18.4765	-0.00416	0.012727	0.030284	-0.01036
962.60	1 186.70	77.08	18.6690	0.00052	-0.00194	-0.0294	0.006314
962.10	1 189.00	79.38	18.5515	0.004166	0.010229	-0.00076	-0.00556
958.10	1 176.90	79.44	18.6550	0.007438	-0.00042	-0.01064	-0.0031
951.00	1 177.40	80.29	18.7130	-0.00942	0.004853	0.019113	-0.0066
960.00	1 171.70	78.77	18.8370	0.025852	0.000854	-0.00216	0.001727
935.50	1 170.70	78.94	18.8045	0.009667	0.011944	-0.00329	-0.00104
926.50	1 156.80	79.2	18.8240	-0.01447	0.008508	0.016807	-0.00838
940.00	1 147.00	77.88	18.9825	0.011663	-0.00183	-0.00997	0.009474
929.10	1 149.10	78.66	18.8035	0.006695	0.001742	0.014857	-0.00744
922.90	1 147.10	77.5	18.9440	0.002495	-0.00078	0.018624	-0.00621
920.60	1 148.00	76.07	19.0620	0.0049	0.008134	-0.00381	0.001864
916.10	1 138.70	76.36	19.0265	-0.00109	0.011216	0.026272	-0.00631
917.10	1 126.00	74.38	19.1470	-0.00706	-0.0106	-0.03462	0.000313
923.60	1 138.00	77	19.1410	0.0063	-0.00473	0.007299	0.003559
917.80	1 143.40	76.44	19.0730	-0.01707	-0.00975	-0.00665	0.007314
933.60	1 154.60	76.95	18.9340	-0.00043	0.003992	0.00091	0.002194
934.00	1 150.00	76.88	18.8925	0.007523	0.007419	0.003518	0.00204
927.00	1 141.50	76.61	18.8540	-0.02187	-0.00959	0.022707	-0.00619
947.50	1 152.50	74.89	18.9710	0.029127	0.010204	0.000935	0.004702
920.30	1 140.80	74.82	18.8820	0.022749	0.024311	0.045528	-0.00975
899.60	1 113.40	71.49	19.0670	0.010729	-0.00769	-0.01196	0.006472
890.00	1 122.00	72.35	18.9440	-0.00168	-0.00923	0.027322	-0.00421
891.50	1 132.40	70.4	19.0240	0.006188	0.018539	0	0.005482
886.00	1 111.60	70.4	18.9200	0.005546	0.017057	0.011141	-0.0137
881.10	1 092.80	69.62	19.1810	0.001818	-0.00137	-0.00701	0.000365
879.50	1 094.30	70.11	19.1740	-0.03519	-0.03669	-0.01683	0.001932
911.00	1 135.20	71.3	19.1370	-0.00055	-0.03378	-0.06081	0.020857
911.50	1 174.20	75.77	18.7420	-0.02556	-0.00204	0.024448	0.007068
935.10	1 176.60	73.94	18.6100	0.014	-0.01006	0.032438	0.000215
922.10	1 188.50	71.58	18.6060	-0.00584	0.009978	0.005323	-0.01589
927.50	1 176.70	71.2	18.9040	-0.01509	-0.00821	0.007755	0.005038
941.60	1 186.40	70.65	18.8090	0.004791	0.001096	-0.02929	0.00723
937.10	1 185.10	72.75	18.6735	-0.01641	0.001605	0.001651	0.00901
952.60	1 183.20	72.63	18.5060	-0.0305	-0.00967	0.006215	0.007131
982.10	1 194.70	72.18	18.3745	0.018498	0.009503	-0.00759	-0.00329
964.10	1 183.40	72.73	18.4350	-0.02155	-0.02734	-0.01907	-0.00608
985.10	1 216.20	74.13	18.5475	-0.01311	-0.00337	-0.01287	0.004566
998.10	1 220.30	75.09	18.4630	0.00603	0.008559	-0.0012	0.02351

992.10	1 209.90	75.18	18.0340	-0.01292	0.020289	-0.02197	-0.00083
1 005.00	1 185.60	76.85	18.0490	0.004988	-0.01124	-0.00984	0.006169
1 000.00	1 199.00	77.61	17.9380	0.021632	0.012083	0.000516	-0.00434
978.60	1 184.60	77.57	18.0160	0.022215	0.006776	-0.02307	-0.00305
957.10	1 176.60	79.38	18.0710	-0.00469	-0.00509	-0.00953	0.001606
961.60	1 182.60	80.14	18.0420	-0.00612	0.021712	0.000999	-0.01037
967.50	1 157.20	80.06	18.2300	-0.00567	0.003896	-0.00635	-0.0079
973.00	1 152.70	80.57	18.3745	0	-0.00346	0.005351	0.009213
973.00	1 156.70	80.14	18.2060	-0.00308	0.00607	0.010915	-0.00425
976.00	1 149.70	79.27	18.2835	0.017572	0.015073	0.002779	0.006502
959.00	1 132.50	79.05	18.1650	0.017886	0.013513	0.018255	-0.01462
942.00	1 117.30	77.62	18.4325	-0.00961	-0.00749	0.012576	0.001928
951.10	1 125.70	76.65	18.3970	0.013763	0.010089	0.000783	0.000788
938.10	1 114.40	76.59	18.3825	-0.00891	0.008199	0.03616	-0.00209
946.50	1 105.30	73.87	18.4210	-0.00264	-0.00559	0.030653	-0.00304
949.00	1 111.50	71.64	18.4770	0.010806	0.002162	-0.01524	0.005889
938.80	1 109.10	72.74	18.3685	0.024804	0.000451	0.012033	0.000926
915.80	1 108.60	71.87	18.3515	0.010207	-0.00818	0.008243	0.003658
906.50	1 117.70	71.28	18.2845	-0.01706	0.002867	-0.02849	0.011911
922.10	1 114.50	73.34	18.0680	-0.00422	0.015918	0.027789	0.000692
926.00	1 096.90	71.33	18.0555	0.013481	-0.00754	0.001965	0.022318
913.60	1 105.20	71.19	17.6570	-0.02315	-0.00433	0.015858	-5.7E-05
935.00	1 110.00	70.07	17.6580	0.01824	0.008141	-0.01192	0.008874
918.10	1 101.00	70.91	17.5020	0.031647	-0.00444	-0.03764	0.000857
889.50	1 105.90	73.63	17.4870	-0.02816	-0.0132	-0.0175	-0.00131
914.90	1 120.60	74.93	17.5100	-0.00262	-0.01681	-0.01654	0.011892
917.30	1 139.60	76.18	17.3030	-0.02349	-0.00917	-0.02027	0.000867
939.10	1 150.10	77.74	17.2880	-0.00266	0.019314	-0.00026	0.008277
941.60	1 128.10	77.76	17.1455	0.003724	0.010694	0.010341	-0.00367
938.10	1 116.10	76.96	17.2085	0.010825	-0.00116	-0.0221	0.001425
928.00	1 117.40	78.68	17.1840	-0.01104	0.000806	0.011633	-0.0139
938.30	1 116.50	77.77	17.4245	-0.03426	0.004488	0.023022	-0.00161
971.00	1 111.50	76	17.4525	-0.01259	-0.01474	-0.00747	0.015795
983.30	1 128.00	76.57	17.1790	0.003566	-0.0112	0.016061	-0.01373
979.80	1 140.70	75.35	17.4165	-0.00864	-0.01203	-0.03636	0.007261
988.30	1 154.50	78.14	17.2905	-0.00172	0.003818	0.032914	-0.00887
990.00	1 150.10	75.61	17.4445	0.013628	0.002699	-0.01105	0.013011
976.60	1 147.00	76.45	17.2190	0.004104	0.001309	-0.02824	0.011566
972.60	1 145.50	78.64	17.0210	-0.02387	-0.00601	0.019259	0.001352
996.10	1 152.40	77.14	16.9980	0.008064	8.68E-05	0.03067	-0.0049
988.10	1 152.30	74.81	17.0815	0.013244	-0.01422	-0.00493	-0.00805
975.10	1 168.80	75.18	17.2195	-0.0192	0.009629	-0.02379	0.011418
994.00	1 157.60	76.99	17.0240	-0.00211	0.000605	-0.00104	0.00047
996.10	1 156.90	77.07	17.0160	-0.00351	-0.00095	-0.00143	-0.002
999.60	1 158.00	77.18	17.0500	0.011571	0.019974	0.021875	-0.01704
988.10	1 135.10	75.51	17.3430	-0.01895	-0.01182	-0.0327	-0.00101
1 007.00	1 148.60	78.02	17.3605	-0.01283	0.017034	-0.00243	-0.0066
1 020.00	1 129.20	78.21	17.4755	0.022206	0.015349	0.032884	-0.02031

997.60	1 112.00	75.68	17.8340	-0.02514	-0.01641	0.001587	-0.00308
1 023.00	1 130.40	75.56	17.8890	0.003918	-0.00968	0.00864	-0.00757
1 019.00	1 141.40	74.91	18.0250	-0.01558	0.010392	-0.02985	0.017009
1 035.00	1 129.60	77.18	17.7210	-0.03232	-0.0199	0.006369	0.001355
1 069.00	1 152.30	76.69	17.6970	-0.01486	-0.01439	0.003134	0.009139
1 085.00	1 169.00	76.45	17.5360	0.002769	-0.00529	-0.01648	0.015459
1 082.00	1 175.20	77.72	17.2670	-0.00185	0.020633	-0.0082	-0.00139
1 084.00	1 151.20	78.36	17.2910	-0.00735	-0.01054	0.007944	0.00249
1 092.00	1 163.40	77.74	17.2480	0.011976	-0.00489	0.015948	-0.00232
1 079.00	1 169.10	76.51	17.2880	-0.02018	0.014735	0.008532	0.004173
1 101.00	1 152.00	75.86	17.2160	-0.00814	-0.00355	0.017017	-0.00715
1 110.00	1 156.10	74.58	17.3395	0.006326	-0.00526	0.019497	0.003843
1 103.00	1 162.20	73.14	17.2730	0.03412	-0.01231	0.01349	-0.00451
1 066.00	1 176.60	72.16	17.3510	0.020854	0.011368	0.018886	-0.00638
1 044.00	1 163.30	70.81	17.4620	-0.01427	-0.0173	0.000848	-0.00109
1 059.00	1 183.60	70.75	17.4810	0.015224	0.030975	0.018545	-0.0063
1 043.00	1 147.50	69.45	17.5915	0.039106	0.004017	0.014211	0.005272
1 003.00	1 142.90	68.47	17.4990	0.007908	0.007641	0.012048	-0.00103
995.10	1 134.20	67.65	17.5170	0.003523	-0.00878	-0.01263	0.005381
991.60	1 144.20	68.51	17.4230	0.015243	0.018168	0.0486	-5.7E-05
976.60	1 123.60	65.26	17.4240	0.001537	0.006877	-0.01882	-0.00132
975.10	1 115.90	66.5	17.4470	-0.01678	-0.03262	-0.00928	-0.00303
991.60	1 152.90	67.12	17.5000	0.007491	-0.00364	0.019558	0.014476
984.20	1 157.10	65.82	17.2485	-0.00497	0.010425	0.018245	-0.00072
989.10	1 145.10	64.63	17.2610	0.019499	0.002361	0.000464	0.006772
970.00	1 142.40	64.6	17.1445	-0.01687	-0.01477	-0.00602	-0.00317
986.50	1 159.40	64.99	17.1990	0.015734	-0.00602	-0.03686	0.005977
971.10	1 166.40	67.43	17.0965	-0.00308	0.002919	-0.03239	0.005513
974.10	1 163.00	69.65	17.0025	0.027687	0.020062	0.022359	-0.00747
947.50	1 139.90	68.11	17.1300	-0.00053	-0.01368	-0.0376	0.002221
948.00	1 155.60	70.72	17.0920	-0.00945	-0.00759	-0.01181	-0.00099
957.00	1 164.40	71.56	17.1090	0.008395	0.008279	0.043557	-0.00018
949.00	1 154.80	68.51	17.1120	-0.00735	0.018617	0.029327	-0.012
956.00	1 133.50	66.53	17.3185	0.011573	-8.8E-05	-0.0057	-0.0065
945.00	1 133.60	66.91	17.4315	-0.00317	-0.00686	-0.02727	-0.00258
948.00	1 141.40	68.76	17.4765	0.00317	-0.00533	-0.0029	-0.00043
945.00	1 147.50	68.96	17.4840	0.025074	-0.00469	-0.01153	-0.00054
921.60	1 152.90	69.76	17.4935	0.010471	-0.00493	0.00806	-0.00613
912.00	1 158.60	69.2	17.6010	0.033448	0.009104	0.049773	-0.01298
882.00	1 148.10	65.84	17.8310	0.005685	0.012798	-0.01418	-0.00568
877.00	1 133.50	66.78	17.9325	-0.0058	0.011892	-0.0122	-0.00567
882.10	1 120.10	67.6	18.0345	-0.01295	-0.04128	-0.01731	-0.00302
893.60	1 167.30	68.78	18.0890	-0.00725	0.004379	-0.00348	0.016949
900.10	1 162.20	69.02	17.7850	-0.02034	0.025711	-0.05332	0.001379
918.60	1 132.70	72.8	17.7605	0.009406	-0.02269	0.029553	-2.8E-05
910.00	1 158.70	70.68	17.7610	-0.0011	-0.00774	-0.00085	-0.00539
911.00	1 167.70	70.74	17.8570	-0.00066	-0.02294	-0.03282	0.005897
911.60	1 194.80	73.1	17.7520	0.001757	-0.00075	-0.01682	-0.00014

910.00	1 195.70	74.34	17.7545	0.010383	0.04823	0.008511	-0.00113
900.60	1 139.40	73.71	17.7745	0.041952	0.002197	-0.00054	-0.00712
863.60	1 136.90	73.75	17.9015	0.011061	0.011767	0.012828	-0.00726
854.10	1 123.60	72.81	18.0320	-0.0099	-0.01563	0.058687	-0.00492
862.60	1 141.30	68.66	18.1210	-0.03866	0.011101	0.000146	-0.0086
896.60	1 128.70	68.65	18.2775	-0.03776	-0.03713	-0.0383	0.01056
931.10	1 171.40	71.33	18.0855	0.025122	0.003849	-0.0335	0.002491
908.00	1 166.90	73.76	18.0405	0.010406	0.045586	-0.00365	-0.00721
898.60	1 114.90	74.03	18.1710	0.001894	0.001167	0.033655	-0.00253
896.90	1 113.60	71.58	18.2170	0.013357	-0.03468	-0.03041	0.002501
885.00	1 152.90	73.79	18.1715	0.030284	0.010025	-0.00568	-0.00225
858.60	1 141.40	74.21	18.2125	-0.0287	-0.00228	-0.00538	0.008243
883.60	1 144.00	74.61	18.0630	0.012527	0.020756	0.002953	0.002134
872.60	1 120.50	74.39	18.0245	0.00172	0.025581	0.007692	0.005201
871.10	1 092.20	73.82	17.9310	0.012824	-0.00101	0.012541	0.008119
860.00	1 093.30	72.9	17.7860	0.014642	0.025475	0.039451	-0.00767
847.50	1 065.80	70.08	17.9230	-0.02044	0.033973	0.018143	-0.01391
865.00	1 030.20	68.82	18.1740	0.008125	0.035469	0.045027	-0.00239
858.00	994.30	65.79	18.2175	0.030772	0.007774	-0.0408	0.011789
832.00	986.60	68.53	18.0040	-0.01325	-0.00647	-0.01808	0.006156
843.10	993.00	69.78	17.8935	0.03574	0.01277	0.013853	0.001258
813.50	980.40	68.82	17.8710	0.028933	0.023948	0.011105	-0.01215
790.30	957.20	68.06	18.0895	-0.00354	0.002301	0.040479	-0.00326
793.10	955.00	65.36	18.1485	-0.00566	-0.01435	-0.00868	-0.00146
797.60	968.80	65.93	18.1750	-0.01234	0.00642	0.01976	0.000771
807.50	962.60	64.64	18.1610	0.031321	0.0193	0.017164	-0.01109
782.60	944.20	63.54	18.3635	0.007053	-0.00444	0.024213	-0.00025
777.10	948.40	62.02	18.3680	-0.01088	-0.00137	0.012493	0.001553
785.60	949.70	61.25	18.3395	0.001911	0.019457	0.012651	-0.01289
784.10	931.40	60.48	18.5775	0.01219	0.025775	0.037569	-0.00215
774.60	907.70	58.25	18.6175	0.010512	0.021154	-0.00309	-0.0022
766.50	888.70	58.43	18.6585	-0.00857	-0.00202	-0.01259	0.005266
773.10	890.50	59.17	18.5605	0.005447	0.009138	-0.00908	-0.01117
768.90	882.40	59.71	18.7690	0.011116	0.001928	-0.03019	0.007407
760.40	880.70	61.54	18.6305	-0.03806	-0.00656	-0.06602	0.002714
789.90	886.50	65.74	18.5800	-0.01894	-0.014	-0.04142	0.02358
805.00	899.00	68.52	18.1470	0.021344	0.00089	0.006002	-0.02097
788.00	898.20	68.11	18.5315	0.048758	0.007039	-0.02379	0.006198
750.50	891.90	69.75	18.4170	0.013279	-0.00325	0.02394	-0.00406
740.60	894.80	68.1	18.4920	0.003381	0.002014	-0.01052	-0.00416
738.10	893.00	68.82	18.5690	0.030259	-0.01302	0.005099	-0.00847
716.10	904.70	68.47	18.7270	-0.00404	0.020999	0.031301	0.004844
719.00	885.90	66.36	18.6365	-0.03162	-0.01457	0.003472	-0.00623
742.10	898.90	66.13	18.7530	-0.05314	-0.03605	-0.06371	-0.00248
782.60	931.90	70.48	18.7995	-0.00497	0.010463	0.007405	-0.0109
786.50	922.20	69.96	19.0055	0.001909	0	0.014542	-0.00757
785.00	922.20	68.95	19.1500	-0.02329	-0.01089	-0.02251	-0.00905
803.50	932.30	70.52	19.3240	0.002617	-0.00833	0.029209	-0.0076

801.40	940.10	68.49	19.4715	-0.00448	-0.01813	-0.03063	0.023803
805.00	957.30	70.62	19.0135	-0.00199	-0.0078	-0.01532	0.004269
806.60	964.80	71.71	18.9325	-0.00544	-0.00455	0.016734	-0.01127
811.00	969.20	70.52	19.1470	0.014907	0.008913	0.02266	0.006839
799.00	960.60	68.94	19.0165	0.032953	0.021146	0.019481	-0.01893
773.10	940.50	67.61	19.3800	-0.02793	-0.0111	-0.00236	0.002221
795.00	951.00	67.77	19.3370	-0.01076	0.019752	0.001329	0.01695
803.60	932.40	67.68	19.0120	-0.00174	0.009375	0.022866	5.26E-05
805.00	923.70	66.15	19.0110	0.009235	-0.00454	-0.02272	0.014918
797.60	927.90	67.67	18.7295	0.009574	0.010509	0.015938	-0.0067
790.00	918.20	66.6	18.8555	0.01917	0.060148	0.024625	-0.00963
775.00	864.60	64.98	19.0380	0.007122	-0.04179	0.023512	-0.01421
769.50	901.50	63.47	19.3105	-0.0013	-0.00971	0.035114	-0.00194
770.50	910.30	61.28	19.3480	0.017016	-0.00482	0.037069	0.015155
757.50	914.70	59.05	19.0570	-0.0109	-0.01206	0.005945	0.000315
765.80	925.80	58.7	19.0510	-0.014	-0.00248	0.011652	-0.00826
776.60	928.10	58.02	19.2090	-0.02102	-0.02048	-0.01844	-0.00747
793.10	947.30	59.1	19.3530	-0.01489	0.034692	0.034077	-0.01107
805.00	915.00	57.12	19.5685	0.041081	0.017085	0.010737	-0.00784
772.60	899.50	56.51	19.7225	0.013815	-0.00189	0.00319	-0.01024
762.00	901.20	56.33	19.9255	0.022562	0.018253	0.001421	0.011407
745.00	884.90	56.25	19.6995	-0.02125	-0.01969	-0.01043	-0.00748
761.00	902.50	56.84	19.8475	-0.06917	-0.06437	0.005646	0.011121
815.50	962.50	56.52	19.6280	-0.03328	-0.00042	0.009421	-0.00412
843.10	962.90	55.99	19.7090	0.071912	-0.02035	-0.01137	-0.00964
784.60	982.70	56.63	19.9000	0.007163	0.031949	0.027934	-0.01055
779.00	951.80	55.07	20.1110	0.011621	0.017701	0.035299	0.003986
770.00	935.10	53.16	20.0310	-0.0129	0.034156	-0.00188	0.013217
780.00	903.70	53.26	19.7680	-0.03774	0.025894	0.057181	-0.02295
810.00	880.60	50.3	20.2270	0.03774	0.038195	0.001592	0.003988
780.00	847.60	50.22	20.1465	0.039221	0.03518	0.031967	-0.00818
750.00	818.30	48.64	20.3120	-0.0012	-0.00694	-0.00062	-0.01111
750.90	824.00	48.67	20.5390	0.040911	-0.01218	-0.03274	0.021034
720.80	834.10	50.29	20.1115	-0.00733	0.012061	0.040582	-0.01996
726.10	824.10	48.29	20.5170	0.011218	0.002187	-0.00434	-0.00951
718.00	822.30	48.5	20.7130	0.01813	0.013098	-0.00391	-0.00241
705.10	811.60	48.69	20.7630	-0.01114	-0.01988	-0.00757	-0.0098
713.00	827.90	49.06	20.9675	-0.02082	-0.0208	-0.05858	0.02077
728.00	845.30	52.02	20.5365	-0.00411	-0.00507	0.003659	0.010844
731.00	849.60	51.83	20.3150	0	0.011126	0.010083	0.00064
731.00	840.20	51.31	20.3020	-0.03389	-0.0057	-0.01451	0.009303
756.20	845.00	52.06	20.1140	0.029797	0.003913	-0.00259	0.002589
734.00	841.70	52.195	20.0620	0.047429	0.00107	-0.00258	-0.00169
700.00	840.80	52.33	20.0960	0.03785	0.033008	0.005173	0.00334
674.00	813.50	52.06	20.0290	-0.00724	0.033245	0.02805	-0.00374
678.90	786.90	50.62	20.1040	0.013196	-0.0341	-0.00571	0.01279
670.00	814.20	50.91	19.8485	-0.04237	-0.0116	0.008482	0.011197
699.00	823.70	50.48	19.6275	0.055897	0.025576	-0.00809	-0.00135

661.00	802.90	50.89	19.6540	0.060814	0.061248	0.102766	-0.03831
622.00	755.20	45.92	20.4215	0.105003	0.007309	-0.00456	-0.01147
560.00	749.70	46.13	20.6570	-0.04368	0.006155	-0.06138	-0.01294
585.00	745.10	49.05	20.9260	-0.02532	-0.0556	-0.03525	0.01444
600.00	787.70	50.81	20.6260	0.012579	-0.02878	-0.02103	0.028448
592.50	810.70	51.89	20.0475	-0.01757	0.004574	0.008321	-0.00641
603.00	807.00	51.46	20.1765	0.075768	0.035569	0.002724	0.001017
559.00	778.80	51.32	20.1560	-0.01544	0.018009	-0.01008	0.023213
567.70	764.90	51.84	19.6935	0.037144	0.046701	0.050847	0.003663
547.00	730.00	49.27	19.6215	-0.02349	-0.01711	0.02549	-0.00076
560.00	742.60	48.03	19.6365	0.113129	0.050117	0.060286	-0.0087
500.10	706.30	45.22	19.8080	0.047292	0.018577	-0.00683	-0.03038
477.00	693.30	45.53	20.4190	-0.02444	0.000721	0.031458	-0.0053
488.80	692.80	44.12	20.5275	0.02906	0.000722	-0.01908	0.004859
474.80	692.30	44.97	20.4280	0.00401	0.021905	0.063812	-0.00166
472.90	677.30	42.19	20.4620	-0.01698	0.002513	-0.02366	-0.029
481.00	675.60	43.2	21.0640	0.027399	0.023058	-0.0406	-0.00849
468.00	660.20	44.99	21.2435	0.017242	0.03045	0.009828	-0.0262
460.00	640.40	44.55	21.8075	-0.09432	-0.00467	0.024311	-0.00238
505.50	643.40	43.48	21.8595	0.01094	0.005767	-0.02206	-0.02009
500.00	639.70	44.45	22.3030	-0.04325	-0.01042	-0.0358	0.030455
522.10	646.40	46.07	21.6340	0.035283	0.024113	0.075495	-0.0274
504.00	631.00	42.72	22.2350	0.028171	-0.00899	0.002813	-0.0102
490.00	636.70	42.6	22.4630	-0.02	-0.00657	-0.04161	0.01234
499.90	640.90	44.41	22.1875	-0.04096	-0.00296	-0.01653	0.001827
520.80	642.80	45.15	22.1470	0.047984	0.00109	0.06355	-0.01535
496.40	642.10	42.37	22.4895	0.039027	-0.00435	0.053071	0.01686
477.40	644.90	40.18	22.1135	-0.04204	-0.00031	-0.02677	-0.01377
497.90	645.10	41.27	22.4200	-0.00621	-0.00479	-0.02205	-0.00245
501.00	648.20	42.19	22.4750	-0.0523	-0.01348	-0.00402	-0.01587
527.90	657.00	42.36	22.8345	0.084758	0.044348	0.072185	-0.01069
485.00	628.50	39.41	23.0800	-0.11664	-0.03594	-0.00708	-0.01691
545.00	651.50	39.69	23.4735	-0.1638	-0.1051	-0.08844	0.054834
642.00	723.70	43.36	22.2210	-0.01069	-0.00331	-0.08549	-0.00308
648.90	726.10	47.23	22.2895	0.004479	-0.0195	0.0654	0.006956
646.00	740.40	44.24	22.1350	-0.00617	-0.01488	-0.0364	-0.00442
650.00	751.50	45.88	22.2330	0.007722	-0.01269	-0.029	0.043387
645.00	761.10	47.23	21.2890	0.031499	0.036528	0.059765	-0.01462
625.00	733.80	44.49	21.6025	-0.0016	0.006426	0.012895	-0.0113
626.00	729.10	43.92	21.8480	-0.04528	-0.02746	0.005479	-0.01061
655.00	749.40	43.68	22.0810	-0.00609	-0.00426	0.012208	0.008756
659.00	752.60	43.15	21.8885	0.029255	-0.0149	0.004413	-0.00524
640.00	763.90	42.96	22.0035	-0.05028	-0.01339	-0.02778	0.009429
673.00	774.20	44.17	21.7970	0.01497	-0.00862	0.023827	0.020252
663.00	780.90	43.13	21.3600	0.035307	-0.00702	0.00628	0.0228
640.00	786.40	42.86	20.8785	0.072907	0.022115	0	-0.00506
595.00	769.20	42.86	20.9845	0.008439	0.00039	-0.11326	-0.00689
590.00	768.90	48	21.1295	0.036242	0.023555	0.106982	-0.01773

569.00	751.00	43.13	21.5075	-0.04468	-0.02212	0.016599	0.000163
595.00	767.80	42.42	21.5040	-0.0092	-0.02139	0.061244	0.018539
600.50	784.40	39.9	21.1090	-0.01422	-0.01832	-0.03255	-0.0184
609.10	798.90	41.22	21.5010	-0.01774	-0.05266	-0.052	0.037434
620.00	842.10	43.42	20.7110	0.037802	0.012547	0.02566	0.002587
597.00	831.60	42.32	20.6575	0.003356	-0.00862	0.001182	0.001865
595.00	838.80	42.27	20.6190	-0.05716	-0.02438	-0.01828	0.024548
630.00	859.50	43.05	20.1190	0.000794	-0.01707	0.052211	0.003685
629.50	874.30	40.86	20.0450	-0.00111	-0.00274	-0.03558	0.012247
630.20	876.70	42.34	19.8010	-0.00869	0.002513	-0.01407	0.035573
635.70	874.50	42.94	19.1090	-0.01375	-0.00581	-0.07383	-0.00893
644.50	879.60	46.23	19.2805	0.003887	-0.02814	-0.05594	0.003299
642.00	904.70	48.89	19.2170	-0.01069	0.023259	0.064416	-0.0093
648.90	883.90	45.84	19.3965	-0.00154	0.015736	0.065353	0.00018
649.90	870.10	42.94	19.3930	0.027929	0.002877	0.228748	0.019001
632.00	867.60	34.16	19.0280	0.014343	0.024266	-0.03198	0.00712
623.00	846.80	35.27	18.8930	0.064132	0.015831	-0.13059	0.027501
584.30	833.50	40.19	18.3805	-0.02468	0.00036	-0.04023	0.003406
598.90	833.20	41.84	18.3180	-0.00184	-0.00586	-0.00382	-0.00283
600.00	838.10	42	18.3700	0.032179	0.002628	-0.06944	-0.03855
581.00	835.90	45.02	19.0920	0.036814	0.015674	0.06043	-0.02073
560.00	822.90	42.38	19.4920	-0.1146	-0.02957	-0.027	0.010262
628.00	847.60	43.54	19.2930	-0.0158	-0.02516	0.101438	-0.02586
638.00	869.20	39.34	19.7985	0.058081	0.024811	-0.01087	-0.0084
602.00	847.90	39.77	19.9655	0.017427	-0.00962	-0.00627	0.003914
591.60	856.10	40.02	19.8875	0.055608	0.038459	0.077381	-0.02206
559.60	823.80	37.04	20.3310	-0.00783	-0.02173	-0.16832	0.010259
564.00	841.90	43.83	20.1235	0.027685	0.027699	-0.0127	-0.00535
548.60	818.90	44.39	20.2315	0.012104	-0.00305	-0.02777	-0.00407
542.00	821.40	45.64	20.3140	0.003697	-0.02584	-0.04163	-0.00435
540.00	842.90	47.58	20.4025	-0.04791	-0.0238	-0.00294	0.021076
566.50	863.20	47.72	19.9770	-0.00264	0.05464	-0.0344	0.027609
568.00	817.30	49.39	19.4330	-0.01051	0.000367	0.038808	0.006609
574.00	817.00	47.51	19.3050	0.098608	0.031078	-0.04123	-0.01998
520.10	792.00	49.51	19.6945	0.015696	0.061446	0.097514	-0.03596
512.00	744.80	44.91	20.4155	0.067877	0.015561	-0.01941	-0.00922
478.40	733.30	45.79	20.6045	-0.05411	-0.05814	-0.0544	0.003257
505.00	777.20	48.35	20.5375	0	0.000257	-0.01539	0.004783
505.00	777.00	49.1	20.4395	-0.06812	-0.04184	-0.03207	0.023614
540.60	810.20	50.7	19.9625	0.017918	0.044031	-0.01215	0.007694
531.00	775.30	51.32	19.8095	-0.03933	-0.06274	-0.02216	-0.03038
552.30	825.50	52.47	20.4205	-0.10231	-0.04847	-0.04272	0.008483
611.80	866.50	54.76	20.2480	-0.03722	-0.04192	-0.04149	0.019776
635.00	903.60	57.08	19.8515	0.109745	0.011017	0.004213	0.008829
569.00	893.70	56.84	19.6770	0.033962	0.030677	0.012392	0.003283
550.00	866.70	56.14	19.6125	-0.0702	-0.04214	-0.0845	0.033809
590.00	904.00	61.09	18.9605	0.009024	-0.03414	-0.02729	0.027483
584.70	935.40	62.78	18.4465	0.101056	0.037136	0.039973	-0.04152

528.50	901.30	60.32	19.2285	0.11731	0.026305	0.005319	0.018079
470.00	877.90	60	18.8840	0.00213	0.015381	-0.01423	0.000424
469.00	864.50	60.86	18.8760	0.082177	0.087716	-0.05031	0.027608
432.00	791.90	64	18.3620	0.071973	0.123641	0.075599	-0.07605
402.00	699.80	59.34	19.8130	-0.04022	-0.07101	-0.02052	0.011804
418.50	751.30	60.57	19.5805	-0.12664	-0.12519	-0.07151	0.009674
475.00	851.50	65.06	19.3920	-0.03516	-0.00281	0.032969	-0.05175
492.00	853.90	62.95	20.4220	-0.04082	-0.03905	-0.04716	0.04144
512.50	887.90	65.99	19.5930	0.01494	0.027055	-0.02188	0.039243
504.90	864.20	67.45	18.8390	-0.08191	0.025075	0.020975	0.015001
548.00	842.80	66.05	18.5585	-0.05278	-0.10755	0.029344	0.001348
577.70	938.50	64.14	18.5335	-0.03787	-0.06227	-0.04153	0.001593
600.00	998.80	66.86	18.5040	-0.10286	-0.08287	-0.11462	0.025007
665.00	1 085.10	74.98	18.0470	0.033798	0.100345	0.008169	-0.01231
642.90	981.50	74.37	18.2705	-0.01098	0.099547	-0.00282	-0.01505
650.00	888.50	74.58	18.5475	-0.13265	-0.16185	-0.09057	0.01491
742.20	1 044.60	81.65	18.2730	0.035799	0.001916	0.010836	0.009292
716.10	1 042.60	80.77	18.1040	-0.05686	-0.03949	-0.02928	-0.00022
758.00	1 084.60	83.17	18.1080	-0.12392	-0.01673	-0.01835	-0.01407
858.00	1 102.90	84.71	18.3645	0.010074	-0.08837	-0.04884	0.018577
849.40	1 204.80	88.95	18.0265	-0.04444	-0.01557	0.000787	0.004504
888.00	1 223.70	88.88	17.9455	0.015548	-0.00943	-0.03656	0.024424
874.30	1 235.30	92.19	17.5125	0.041213	0.025083	-0.01432	0.008343
839.00	1 204.70	93.52	17.3670	0.025348	-0.00066	-0.02576	0.015289
818.00	1 205.50	95.96	17.1035	-0.01155	-0.05527	-0.05	0.025373
827.50	1 274.00	100.88	16.6750	-0.03852	-0.02066	0.004272	-0.0021
860.00	1 300.60	100.45	16.7100	0.032619	0.013547	-0.01619	-0.00063
832.40	1 283.10	102.09	16.7205	-0.00551	0.004217	0.01351	0.011701
837.00	1 277.70	100.72	16.5260	-0.07257	-0.02489	0.002883	0.02085
900.00	1 309.90	100.43	16.1850	0.036203	-0.0048	0.071927	-0.02291
868.00	1 316.20	93.46	16.5600	0.101783	0.110931	0.027884	-0.0168
784.00	1 178.00	90.89	16.8405	-0.05762	-0.00812	0.054257	-0.00225
830.50	1 187.60	86.09	16.8785	0.015166	0.016984	0.002792	-0.00118
818.00	1 167.60	85.85	16.8985	-0.07488	-0.05758	-0.0522	-0.00298
881.60	1 236.80	90.45	16.9490	-0.04806	-0.04273	-0.04243	0.000472
925.00	1 290.80	94.37	16.9410	-0.00657	-0.00108	-0.01723	-0.03289
931.10	1 292.20	96.01	17.5075	-0.01143	-0.0228	0.000104	0.000743
941.80	1 322.00	96	17.4945	-0.08074	-0.05045	-0.03017	-0.00399
1 021.00	1 390.40	98.94	17.5645	-0.0194	-0.02661	-0.0214	-0.00347
1 041.00	1 427.90	101.08	17.6255	0.022342	0.038115	-0.01405	0.011699
1 018.00	1 374.50	102.51	17.4205	-0.0338	-0.03916	-0.00874	-0.00355
1 053.00	1 429.40	103.41	17.4825	-0.01975	-0.01576	-0.00453	0.020019
1 074.00	1 452.10	103.88	17.1360	0.004666	-0.01307	-0.01015	0.005677
1 069.00	1 471.20	104.94	17.0390	0.014131	-0.00475	-0.07833	0.007895
1 054.00	1 478.20	113.49	16.9050	0.003802	0.014995	-0.00044	0.005041
1 050.00	1 456.20	113.54	16.8200	0.009569	0.008413	0.004325	0.003335
1 040.00	1 444.00	113.05	16.7640	-0.00384	0.004442	0.007547	-0.0006
1 044.00	1 437.60	112.2	16.7740	0.003839	-0.01038	0.022169	0.011784

1 040.00	1 452.60	109.74	16.5775	0.008692	-0.00193	-0.038	0.004656
1 031.00	1 455.40	113.99	16.5005	0.005837	0.010429	-0.02811	0.010907
1 025.00	1 440.30	117.24	16.3215	0.024693	0.000208	0.075447	-0.01529
1 000.00	1 440.00	108.72	16.5730	-0.0139	0.00592	-0.00276	0.004839
1 014.00	1 431.50	109.02	16.4930	-0.02532	-0.00772	-0.00284	-0.00103
1 040.00	1 442.60	109.33	16.5100	-0.0331	-0.00938	0.004859	-0.01177
1 075.00	1 456.20	108.8	16.7055	0.024483	0.005371	-0.02738	0.011075
1 049.00	1 448.40	111.82	16.5215	0.004778	6.9E-05	0.010247	0.023579
1 044.00	1 448.30	110.68	16.1365	-0.02366	0.001244	0.015479	0.012346
1 069.00	1 446.50	108.98	15.9385	0.025582	-0.00751	-0.01421	-0.01593
1 042.00	1 457.40	110.54	16.1945	-0.01995	0.00268	-0.02228	-0.00234
1 063.00	1 453.50	113.03	16.2325	0.024763	0.001997	-0.03401	0.02767
1 037.00	1 450.60	116.94	15.7895	-0.00864	-0.00619	0.021348	0.015059
1 046.00	1 459.60	114.47	15.5535	-0.00382	0.011923	-0.01758	0.002704
1 050.00	1 442.30	116.5	15.5115	0.028008	0.001596	-0.04506	0.00689
1 021.00	1 440.00	121.87	15.4050	-0.01844	-0.00464	-0.01862	0.004098
1 040.00	1 446.70	124.16	15.3420	0.009662	-0.0172	0.000483	-0.00072
1 030.00	1 471.80	124.1	15.3530	-0.00774	-0.00149	0.013303	0.00287
1 038.00	1 474.00	122.46	15.3090	0.05546	0.020632	-0.02667	0.005896
982.00	1 443.90	125.77	15.2190	-0.02116	-0.0009	0.000795	0.010768
1 003.00	1 445.20	125.67	15.0560	0.009114	0.007989	0.007749	-0.0056
993.90	1 433.70	124.7	15.1405	-0.02199	-0.0055	-0.00584	0.000694
1 016.00	1 441.60	125.43	15.1300	0.000985	-0.0229	-0.01134	-0.00297
1 015.00	1 475.00	126.86	15.1750	0.055711	0.026518	-0.00252	0.01755
960.00	1 436.40	127.18	14.9110	0.005222	-0.01025	-0.01684	0.03331
955.00	1 451.20	129.34	14.4225	0.033865	0.018781	0	-0.00646
923.20	1 424.20	129.34	14.5160	0.013632	-0.01173	-0.03659	-0.00354
910.70	1 441.00	134.16	14.5675	0.068977	0.029866	0.006356	-0.00336
850.00	1 398.60	133.31	14.6165	-0.03922	-0.00121	-0.02012	-0.00331
884.00	1 400.30	136.02	14.6650	-0.072	-0.02823	-0.04605	-0.00014
950.00	1 440.40	142.43	14.6670	-0.02176	-0.00263	-0.00874	-0.00133
970.90	1 444.20	143.68	14.6865	0.000927	-0.00297	0.056332	-0.01322
970.00	1 448.50	135.81	14.8820	-0.05026	-0.00461	0.014089	-0.00073
1 020.00	1 455.20	133.91	14.8929	0.026928	0.022235	-0.00179	-0.01109
992.90	1 423.20	134.15	15.0590	0.002925	-0.01319	-0.03997	0.008871
990.00	1 442.10	139.62	14.9260	-0.01703	0.000486	-0.03054	-0.01377
1 007.00	1 441.40	143.95	15.1330	-0.00297	-0.0206	0.019005	0.007861
1 010.00	1 471.40	141.24	15.0145	0.033321	0.008806	0.004044	-0.00412
976.90	1 458.50	140.67	15.0765	-0.04513	-0.017	0.016269	-0.00664
1 022.00	1 483.50	138.4	15.1770	-0.03462	0.003714	-0.00706	0.005219
1 058.00	1 478.00	139.38	15.0980	-0.01034	-0.00122	0.018538	-0.01149
1 069.00	1 479.80	136.82	15.2725	0.008455	-0.02034	0.038975	-0.00718
1 060.00	1 510.20	131.59	15.3825	0	-0.00231	-0.02832	-0.00625
1 060.00	1 513.70	135.37	15.4790	-0.02607	-0.02486	0.00615	-0.00223
1 088.00	1 551.80	134.54	15.5135	-0.00641	-0.00469	0.001934	0.002356
1 095.00	1 559.10	134.28	15.4770	-0.02079	-0.03405	0.018338	-0.00429
1 118.00	1 613.10	131.84	15.5435	-0.02124	-0.00655	0.020847	0.00474
1 142.00	1 623.70	129.12	15.4700	-0.00262	-0.00608	-0.01651	-0.00853

1 145.00	1 633.60	131.27	15.6025	0.017622	0.023223	-0.01984	-0.00368
1 125.00	1 596.10	133.9	15.6600	0.015226	0.005466	-0.00291	-0.0043
1 108.00	1 587.40	134.29	15.7275	0.007246	-0.00916	0.016367	0.006187
1 100.00	1 602.00	132.11	15.6305	-0.0198	0.010416	-0.01808	-0.00348
1 122.00	1 585.40	134.52	15.6850	-0.01767	-0.00535	-0.00534	-0.00939
1 142.00	1 593.90	135.24	15.8330	0.001753	-0.01519	0.006007	0.006813
1 140.00	1 618.30	134.43	15.7255	-0.02598	-0.0088	0.012124	0.009167
1 170.00	1 632.60	132.81	15.5820	0	-0.0132	0.081952	-0.01241
1 170.00	1 654.30	122.36	15.7765	-0.00681	0.003694	0.005244	-0.01219
1 178.00	1 648.20	121.72	15.9700	-0.02266	-0.01302	-0.03678	-0.00587
1 205.00	1 669.80	126.28	16.0640	-0.01237	-0.00912	-0.01743	0.002556
1 220.00	1 685.10	128.5	16.0230	0.00082	5.93E-05	0.005071	-0.00483
1 219.00	1 685.00	127.85	16.1005	0	0.005236	-0.01151	-0.00109
1 219.00	1 676.20	129.33	16.1180	-0.00491	0.000179	0.003098	0.001645
1 225.00	1 675.90	128.93	16.0915	0.020619	0.018732	7.76E-05	0.00252
1 200.00	1 644.80	128.92	16.0510	-0.0198	-0.01598	-0.00619	0.009138
1 224.00	1 671.30	129.72	15.9050	0.012331	-0.00364	0.005256	-0.0042
1 209.00	1 677.40	129.04	15.9720	0.001656	0.00508	0.013733	0.001817
1 207.00	1 668.90	127.28	15.9430	-0.02697	-0.02029	0.025141	-0.00319
1 240.00	1 703.10	124.12	15.9940	0	-0.00451	0.015672	-0.00726
1 240.00	1 710.80	122.19	16.1105	0.008097	0.005686	-0.00644	0.002455
1 230.00	1 701.10	122.98	16.0710	-0.00244	0.01941	0.001791	-0.01068
1 233.00	1 668.40	122.76	16.2435	0.002436	0.007943	0.012954	0.00191
1 230.00	1 655.20	121.18	16.2125	0.013093	0.008068	-0.0158	0.005691
1 214.00	1 641.90	123.11	16.1205	-0.02521	0.000609	0.001789	0.007159
1 245.00	1 640.90	122.89	16.0055	0.021105	0.002502	-0.00528	-0.01087
1 219.00	1 636.80	123.54	16.1805	-0.03704	-0.0163	0.026826	-0.00978
1 265.00	1 663.70	120.27	16.3395	0.011929	0.011912	0.003248	0.006755
1 250.00	1 644.00	119.88	16.2295				

alfa	beta1	beta2	beta3		vrs
n	sum_Xi1	sum_Xi2	sum_Xi3		sum_Yi
sum_Xi1	sum_Xi1^2	sum_Xi1Xi2	sum_Xi2Xi3		sum_YiXi1
sum_Xi2	sum_Xi1Xi2	sum_Xi2^2	sum_Xi2Xi3		sum_YiXi2
sum_Xi3	sum_Xi2Xi3	sum_Xi2Xi3	sum_Xi3^2		sum_YiXi3
1179	-0.20432	-0.4632624	-0.09845		-0.204321797
-0.20432	0.433722	0.2105227	-0.07658		0.358295277
-0.46326	0.210523	-0.0984516	0.188622		0.19541719
-0.09845	-0.07658	0.18862246	0.141255		-0.066531126
0.000848	0.0007	-0.0001786	0.001209	alfa	-3.79395E-05
0.0007	1.489858	1.32952071	-0.96718	beta1	0.857824487
-0.00018	1.329521	-1.6672833	2.947031	beta2	-0.045487642
0.001209	-0.96718	2.94703129	2.620646	beta3	0.054764197

Security	ri	beta_i	var_eps	(ri-rf)/beta_i	(ri-rf)*beta_i/var_eps_i		
	1	19	1	20	16	0.8	0.05
	3	11	0.5	10	16	0.4	0.025
	2	23	1.5	30	13.333333	1	0.075
	6	9	0.5	50	12	0.06	0.005
	4	25	2	40	11	1.1	0.1
	5	13	1	20	10	0.5	0.05
	7	14	1.5	30	7.333333	0.55	0.075
	8	10	1	50	7	0.14	0.02
	9	9.5	1	50	6.5	0.13	0.02
	11	11	1.5	30	5.333333	0.4	0.075
	10	13	2	20	5	1	0.2
	12	8	1	20	5	0.25	0.05
	14	7	1	20	4	0.2	0.05
	13	10	2	40	3.5	0.35	0.1
rf		3					
var_m		10					

cum		Ci	if_(long,short)	Zi	wi
0.8	0.05	5.333333	long	0.323457	0.337411
1.2	0.075	6.857143	long	0.323457	0.337411
2.2	0.15	8.8	long	0.190123	0.198326
2.26	0.155	8.862745	long	0.024691	0.025757
3.36	0.255	9.464789	long	0.073457	0.076626
3.86	0.305	9.530864	long	0.023457	0.024469
4.41	0.38	9.1875	short		
4.55	0.4	9.1	short	sum_zi	0.958642
4.68	0.42	9	short		1
5.08	0.495	8.537815	short		
6.08	0.695	7.647799	short		
6.33	0.745	7.491124	short		
6.53	0.795	7.296089	short		
6.88	0.895	6.914573	short		

short allowed - C*= 6.914573

beta_portf 0.994205
sys_var_p 9.884431
uns_var_p 4.875394

Var_p 14.75983
Sigma_p 3.841852

with short Zi	wi
0.454271	0.468066
0.454271	0.468066
0.320938	0.330684
0.050854	0.052399
0.204271	0.210475
0.154271	0.158956
0.020938	0.021574
0.001709	0.00176
-0.00829	-0.00854
-0.07906	-0.08146
-0.19146	-0.19727
-0.09573	-0.09864
-0.14573	-0.15015
-0.17073	-0.17591
sum_Zi	0.970528