

Company	Market Index	BRENT(USD)	XR(CZC/USD)				
627.00	1 034.45	108.64	19.5985	-0.020521636	-0.00428	-0.00248219	
640.00	1 038.89	108.91	19.5490	-0.013656326	0.010333	-0.01376942	
648.80	1 028.21	110.42	19.3960	0.016786219	-0.00093	0.001359373	
638.00	1 029.17	110.27	19.6815	-0.014008011	0.011886	-0.00135937	
647.00	1 017.01	110.42	19.5845	-0.015489919	0.011004	0.004720415	
657.10	1 005.88	109.9	19.7185	0.030438812	-0.00715	-0.00218142	
637.40	1 013.10	110.14	19.7125	0.003772403	-0.00145	-0.01853071	
635.00	1 014.57	112.2	19.6540	0	0.018543	-0.00035644	
635.00	995.93	112.24	19.5100	0.059198474	0.003208	-0.00639434	
598.50	992.74	112.96	19.5800	0.014303988	-0.02094	-0.01397764	
590.00	1 013.75	114.55	19.5125	-0.034974422	0.013586	0.007096267	
611.00	1 000.07	113.74	19.3590	0.031590324	0.007034	-0.00394859	
592.00	993.06	114.19	19.3155	0.009333967	-0.01068	-0.01770726	
586.50	1 003.72	116.23	19.1000	-0.026084777	0.002814	-0.00694477	
602.00	1 000.90	117.04	18.9420	0.028645598	-0.00278	-0.00307115	
585.00	1 003.69	117.4	19.0240	-0.009865703	0.004624	-0.00915726	
590.80	999.06	118.48	18.9560	-0.002366865	-0.01073	0.000422101	
592.20	1 009.84	118.43	18.8520	-0.027152497	0.007425	0.004570082	
608.50	1 002.37	117.89	18.8245	0.004942349	0.003408	-0.00338725	
605.50	998.96	118.29	18.8370	0.034442716	0.004847	-0.00514357	
585.00	994.13	118.9	18.8785	-0.004094172	0.008039	0.014656932	
587.40	986.17	117.17	18.8435	0.01613215	-0.01267	0.001195559	
578.00	998.74	117.03	18.8635	-0.033682381	-0.00876	0.008323013	
597.80	1 007.53	116.06	18.9900	-0.020202707	-0.00917	0.004403962	
610.00	1 016.81	115.55	18.8310	-0.035905008	-0.00454	0	
632.30	1 021.44	115.55	18.9010	-0.016780759	0.003511	0.001125687	
643.00	1 017.86	115.42	18.8800	0.018680396	-0.00207	0.001734305	
631.10	1 019.97	115.22	19.0205	-0.002215892	0.007282	0.011346897	
632.50	1 012.57	113.92	19.1020	0.0077772	-0.01151	0.000351185	
627.60	1 024.29	113.88	18.9830	-0.009041223	0.002375	-0.00621528	
633.30	1 021.86	114.59	19.1180	0.030460835	-0.00484	0.007973057	
614.30	1 026.82	113.68	19.2230	-0.002113994	0.00152	0.008480616	
615.60	1 025.26	112.72	19.2515	-0.014353928	-0.01669	0.00900064	
624.50	1 042.52	111.71	19.2350	-0.033073881	0.000249	0.00628594	
645.50	1 042.26	111.01	19.0975	-0.005253411	0.002834	0.000360393	
648.90	1 039.31	110.97	19.2240	-0.004612554	-0.00291	-0.00673585	
651.90	1 042.34	111.72	19.2410	-0.019595068	-0.00487	0.003586804	
664.80	1 047.43	111.32	19.1100	-0.009282893	-0.00597	0.00920501	
671.00	1 053.70	110.3	19.2150	0.005979091	0.005348	-0.02391837	
667.00	1 048.08	112.97	19.3080	0.003454235	-0.01708	-0.0008848	
664.70	1 066.14	113.07	19.6095	-0.014042657	0.004644	0.000353826	
674.10	1 061.20	113.03	19.5175	0.024021572	0.006239	0.004788941	
658.10	1 054.60	112.49	19.4825	0.026795567	-0.00743	-0.00079975	
640.70	1 062.47	112.58	19.4085	0.013355529	-0.00054	-0.00398919	
632.20	1 063.04	113.03	19.3600	-0.002843155	-0.00279	0.000442458	
634.00	1 066.01	112.98	19.1155	0.00315956	0.025953	0.026276004	

632.00	1 038.70	110.05	19.0010	0.040360603	0.002651	9.08719E-05
607.00	1 035.95	110.04	18.9565	-0.003289477	-0.00041	0.008304104
609.00	1 036.38	109.13	19.0670	0.030679298	0.002502	-0.01310897
590.60	1 033.79	110.57	19.0190	-0.022435229	-0.00723	0.005623088
604.00	1 041.29	109.95	19.0310	-0.021780931	0.009921	-9.0946E-05
617.30	1 031.01	109.96	19.0320	0.01025817	0.019243	0.005562916
611.00	1 011.36	109.35	19.1775	0.043656067	0.003308	0.000640351
584.90	1 008.02	109.28	19.1630	0.003425247	0.00581	-0.008202
582.90	1 002.18	110.18	19.3150	0.00792288	0.000589	9.07647E-05
578.30	1 001.59	110.17	19.3185	0.006592668	0.008996	0.02360398
574.50	992.62	107.6	19.4125	0.018623166	0.006854	-0.00602272
563.90	985.84	108.25	19.5265	0.010876456	-0.00776	0.010120322
557.80	993.52	107.16	19.4965	-0.011939908	-0.00606	-0.00790077
564.50	999.56	108.01	19.4405	-0.000177132	0.001832	-0.00875703
564.60	997.73	108.96	19.2930	0.008180732	0.003444	-0.00940861
560.00	994.30	109.99	19.2755	0.005371544	-3E-05	-0.01157023
557.00	994.33	111.27	19.3205	-0.020260156	-0.00299	0.00387196
568.40	997.31	110.84	19.4450	-0.002810965	0.005197	0.003343729
570.00	992.14	110.47	19.4210	0.022173857	0.016791	0.02020825
557.50	975.62	108.26	19.5050	0.044190892	-0.01978	-0.00983509
533.40	995.11	109.33	19.5830	-0.034457578	0.01199	-0.00774456
552.10	983.25	110.18	19.4940	0.025870629	0.006479	0.000363108
538.00	976.90	110.14	19.5295	0.026366876	0.014705	-0.00606474
524.00	962.64	110.81	19.8535	0.000954654	-0.00778	0.007245752
523.50	970.16	110.01	19.7815	-0.004764182	-0.00446	-0.0004544
526.00	974.50	110.06	19.7790	-0.001709564	0.004422	0.029974117
526.90	970.20	106.81	20.0515	0.013181966	0.000876	-0.03006497
520.00	969.35	110.07	19.9660	0.002888784	-0.00509	0.003731857
518.50	974.30	109.66	19.9790	-0.000963855	0.008369	0.007689529
519.00	966.18	108.82	20.0665	0.012017978	-0.01179	-0.01287395
512.80	977.64	110.23	19.9665	-0.01066832	-0.00223	0.014805608
518.30	979.82	108.61	19.9665	0.011643834	-0.00568	0.012787424
512.30	985.40	107.23	19.9450	-0.00525651	-0.00402	-0.00909772
515.00	989.37	108.21	19.8875	0	-0.0062	-0.0097481
515.00	995.52	109.27	19.7110	0.012701685	0.00738	0.034258214
508.50	988.20	105.59	19.6815	0.012665912	0.007384	-0.01130062
502.10	980.93	106.79	19.6710	0.015656683	0.005284	-0.01901462
494.30	975.76	108.84	19.4700	0.016933996	0.005014	-0.00960095
486.00	970.88	109.89	19.3610	0.003091193	0.001412	0.004468975
484.50	969.51	109.4	19.2800	0.025079684	0.010941	0.000640059
472.50	958.96	109.33	19.3975	0.046792162	-0.00541	0.003940802
450.90	964.16	108.9	19.2770	-0.017804625	-0.01298	0.011637704
459.00	976.76	107.64	19.2990	-0.008676844	0.000543	-0.00018579
463.00	976.23	107.66	19.2730	0.002162163	0.003993	0.001208235
462.00	972.34	107.53	19.1860	0.002166848	-0.01801	-0.01924996
461.00	990.01	109.62	19.0520	-0.030337725	0.001739	-0.02049641
475.20	988.29	111.89	19.0855	0.00654494	-0.00546	-0.00614783

472.10	993.70	112.58	18.9685	-0.025926604	-0.00176	-0.00805065
484.50	995.45	113.49	18.8700	0.011416834	0.000794	-0.0132174
479.00	994.66	115	18.9960	0.014721612	0.007883	0
472.00	986.85	115	19.2410	0.010649728	0.000923	-0.00147717
467.00	985.94	115.17	19.3030	0.008602204	0.000254	-0.00873141
463.00	985.69	116.18	19.2730	0.008676844	0.002133	0.000602695
459.00	983.59	116.11	19.3585	0.02113685	-0.00241	0.015536484
449.40	985.96	114.32	19.4050	0.000890472	0.000446	0.015159818
449.00	985.52	112.6	19.2325	0	-0.00021	0.003826138
449.00	985.73	112.17	19.0760	-0.020937404	0.017593	0.015181069
458.50	968.54	110.48	19.1600	0.023167059	0.004999	0.010555148
448.00	963.71	109.32	19.3990	0.021433421	0.003409	-0.02858497
438.50	960.43	112.49	19.3735	0.013084084	-0.00752	-0.00079975
432.80	967.68	112.58	19.4670	-0.023294043	0.014888	0.010895883
443.00	953.38	111.36	19.3730	0.01523969	0.009739	0.021512062
436.30	944.14	108.99	19.3940	0.019206885	-0.02071	-0.01619984
428.00	963.90	110.77	19.3415	-0.04321166	0.003534	0.014274916
446.90	960.50	109.2	19.2970	0.011024974	-0.0027	-0.01877862
442.00	963.10	111.27	19.1280	-0.00451468	0.007818	0.016857387
444.00	955.60	109.41	19.2250	0.002029084	-0.01124	0.008444291
443.10	966.40	108.49	19.0775	-0.042851079	-0.00062	-0.0432929
462.50	967.00	113.29	19.0210	0.000432526	-0.00289	-0.02965564
462.30	969.80	116.7	18.7150	-0.008400696	-0.00832	-0.00666157
466.20	977.90	117.48	18.5550	-0.014480662	0.025163	0.012677915
473.00	953.60	116	18.7985	0.080765308	-0.01116	0.009876196
436.30	964.30	114.86	18.9750	-0.026463152	0.011368	0
448.00	953.40	114.86	18.9230	0.028987537	-0.00262	0.008920042
435.20	955.90	113.84	19.2715	-0.000229753	-0.01299	0.001758397
435.30	968.40	113.64	19.1610	0.004143652	0.017185	-0.00753927
433.50	951.90	114.5	19.4670	0.057443413	0.007593	0.010359148
409.30	944.70	113.32	19.6800	0.035562619	-0.00063	-0.01454253
395.00	945.30	114.98	19.8120	0.001266625	-0.00706	0.009173975
394.50	952.00	113.93	19.7650	-0.003037208	0.014176	0.014588473
395.70	938.60	112.28	19.8980	0.019651009	0.00032	-0.0022241
388.00	938.30	112.53	19.7800	-0.012804272	-0.0051	-0.00079947
393.00	943.10	112.62	19.6900	-0.009874748	-0.01128	-0.00989582
396.90	953.80	113.74	19.8670	-0.015748357	0.008423	-0.01760394
403.20	945.80	115.76	19.8860	0.026641435	-0.00968	-0.01449363
392.60	955.00	117.45	19.8260	-0.027137344	-0.00178	0.014407247
403.40	956.70	115.77	19.9295	-0.003217426	0.006502	-0.00224331
404.70	950.50	116.03	19.9000	-0.009835339	0.012279	0.004578248
408.70	938.90	115.5	20.1645	0.026529385	-0.00975	0.002600782
398.00	948.10	115.2	20.2170	-0.032141209	0.007517	-0.00795439
411.00	941.00	116.12	20.0845	0.025629791	0.006504	0.005267033
400.60	934.90	115.51	20.2880	0.035314225	0.00461	0.014036236
386.70	930.60	113.9	20.3220	-0.000775494	0.009501	-0.00507926
387.00	921.80	114.48	20.3675	0.017990317	-0.00498	0.011862535

380.10	926.40	113.13	20.4120	-0.002889796	0.001945	-0.00344143
381.20	924.60	113.52	20.3895	0.001837994	0.010656	0.00088129
380.50	914.80	113.42	20.3230	0.011897034	-0.00338	0.009122777
376.00	917.90	112.39	20.2610	-0.01294773	0.004586	0.021403695
380.90	913.70	110.01	20.2980	0.007113717	0.015997	0.004007656
378.20	899.20	109.57	20.3765	0.038269289	0.011071	0.018607759
364.00	889.30	107.55	20.7855	0.012717893	-0.00561	0.007185213
359.40	894.30	106.78	20.7150	-0.0085885	0.00336	0.007992144
362.50	891.30	105.93	20.5770	-0.013426698	-0.01647	-0.005742
367.40	906.10	106.54	20.5635	-0.044712078	0.011544	0.002255216
384.20	895.70	106.3	20.5355	0.021574107	0.008409	0.014497814
376.00	888.20	104.77	20.6260	0.017438403	0.00973	0.023369159
369.50	879.60	102.35	20.9615	0.024104152	0.001024	-0.0118494
360.70	878.70	103.57	21.1755	0.006675964	0.003648	-0.00327743
358.30	875.50	103.91	21.1065	-0.003343553	-0.02537	-0.02911676
359.50	898.00	106.98	21.0445	-0.065407406	-0.01305	-0.00754299
383.80	909.80	107.79	20.6650	-0.010883756	0.009054	0.017500798
388.00	901.60	105.92	20.5745	0.025317808	-0.00685	0.016275998
378.30	907.80	104.21	20.5335	-0.020667838	0.007075	0.020455369
386.20	901.40	102.1	20.6550	0.020139297	-0.0031	0.001862654
378.50	904.20	101.91	20.7600	0.00291044	0.008106	0.02715369
377.40	896.90	99.18	20.8200	0.010387628	-0.01109	-0.00050401
373.50	906.90	99.23	20.6510	-0.025378047	0.002982	0.000806533
383.10	904.20	99.15	20.7265	0.009441455	-0.00463	-0.00793615
379.50	908.40	99.94	20.6585	-0.05260995	-0.00472	0.000500425
400.00	912.70	99.89	20.2255	0.007780187	0.001316	0.047249655
396.90	911.50	95.28	20.2990	0.010893078	0.011697	0.011718266
392.60	900.90	94.17	20.1525	0.029991907	0.022791	0.034022397
381.00	880.60	91.02	20.7150	0.067026303	-0.00645	-0.01136128
356.30	886.30	92.06	20.7310	0.014132513	0.002485	0.020521982
351.30	884.10	90.19	20.7430	0.0025652	0.006468	0.016771413
350.40	878.40	88.69	20.7005	-0.003418807	-0.02385	-0.00595809
351.60	899.60	89.22	20.5060	-0.055861909	-0.00278	0
371.80	902.10	89.22	20.5820	-0.005632307	0.006004	-0.04685621
373.90	896.70	93.5	20.1280	0.014276337	-0.00378	-0.01738805
368.60	900.10	95.14	20.0370	0.000271334	0.017144	-0.00073549
368.50	884.80	95.21	20.3380	0.025561375	-0.00079	-0.01996531
359.20	885.50	97.13	20.1205	-0.024475304	0.010901	0.006921873
368.10	875.90	96.46	20.1795	0.03089901	0.002744	-0.00856779
356.90	873.50	97.29	20.2950	0.003367952	0.003555	0.007220993
355.70	870.40	96.59	20.5550	0.001969889	-0.0104	-0.02059605
355.00	879.50	98.6	20.5415	-0.023936573	-0.00736	0.010501192
363.60	886.00	97.57	20.2980	-0.004390786	-0.00776	-0.02509999
365.20	892.90	100.05	20.1805	-0.01278755	0.01319	-0.01083563
369.90	881.20	101.14	20.2215	0.010872627	0.007518	0.024927463
365.90	874.60	98.65	20.5645	-0.008436572	0.01231	0.009267341
369.00	863.90	97.74	20.5780	0.01089929	0.005455	-0.00906458

365.00	859.20	98.63	20.7380	0.024966623	-0.00742	-0.05166836
356.00	865.60	103.86	20.8160	-0.020848566	-0.01274	9.62881E-05
363.50	876.70	103.85	20.8030	-0.017453402	-0.0016	-0.03500831
369.90	878.10	107.55	20.3775	0.005693387	0.009727	-0.00287823
367.80	869.60	107.86	20.2470	0.009012761	-0.01098	0.006137841
364.50	879.20	107.2	20.2850	-0.012270093	0.001252	0.002989539
369.00	878.10	106.88	20.2610	-0.00675222	-0.00477	-0.02658945
371.50	882.30	109.76	19.9345	-0.002956594	0.010368	0.006764812
372.60	873.20	109.02	19.5935	0.017872125	0.005052	0.009122385
366.00	868.80	108.03	19.7650	0.008230499	0.001267	-0.01177892
363.00	867.70	109.31	20.0820	0.005247906	-0.00906	-0.00447265
361.10	875.60	109.8	20.0345	-0.045739267	-0.00046	-0.01446668
378.00	876.00	111.4	20.1330	0.018422628	-0.01944	0.00549081
371.10	893.20	110.79	19.7780	-0.047107776	-0.0183	-0.0153167
389.00	909.70	112.5	19.5670	-0.045479512	-0.00242	0.002313786
407.10	911.90	112.24	19.5115	-0.012692384	0.020832	0.00312319
412.30	893.10	111.89	19.5650	-0.018503472	-0.0287	0.002057706
420.00	919.10	111.66	19.2550	0.000714541	-0.00629	-0.03735549
419.70	924.90	115.91	19.0510	-0.007122537	-0.00904	-0.01421987
422.70	933.30	117.57	18.9650	-0.001182173	-0.00577	-0.00922836
423.20	938.70	118.66	18.8475	-0.011278315	0.003949	-0.00537907
428.00	935.00	119.3	18.7395	0.004683849	0.005147	-0.00025144
426.00	930.20	119.33	18.8060	0.006358199	-0.00536	0.015880053
423.30	935.20	117.45	18.7155	-0.028643244	0.014107	-0.00246609
435.60	922.10	117.74	18.8905	0.048445871	0.011891	0.009215082
415.00	911.20	116.66	19.0250	0.027854232	-0.01708	-0.01209864
403.60	926.90	118.08	18.8680	-0.003462779	0.009866	0.009188426
405.00	917.80	117	18.9000	0.027282383	-0.00543	0.015677813
394.10	922.80	115.18	18.8810	-0.012106075	0.00217	-0.01917596
398.90	920.80	117.41	18.8575	0.020003199	0.00163	-0.0069598
391.00	919.30	118.23	18.8550	0.018065007	-0.01232	-0.02001323
384.00	930.70	120.62	18.8490	-0.023167059	-0.00994	0.000414611
393.00	940.00	120.57	18.8015	-0.022891202	0.000106	0.001327911
402.10	939.90	120.41	18.9585	0.001493281	0.015223	-0.01221641
401.50	925.70	121.89	18.9595	0.051621067	-0.0101	-0.01376972
381.30	935.10	123.58	18.8495	-0.024353535	-0.01127	0.004379214
390.70	945.70	123.04	18.7545	-0.029755095	-0.02041	-0.02107034
402.50	965.20	125.66	18.6125	-0.049677082	-0.00259	0.009756175
423.00	967.70	124.44	18.5745	0	-0.00556	0.008311527
423.00	973.10	123.41	18.5875	-0.009411834	0.003913	0.001459618
427.00	969.30	123.23	18.5980	0.01415118	-0.0182	-0.00953003
421.00	987.10	124.41	18.5190	-0.052290422	-0.00334	-0.00672918
443.60	990.40	125.25	18.4260	-0.011431258	0.002932	-0.00477898
448.70	987.50	125.85	18.4305	-0.004003564	-0.00051	0.005098394
450.50	988.00	125.21	18.5530	-0.007739121	-0.00222	0.021962934
454.00	990.20	122.49	18.7475	-0.00614846	-0.00161	-0.01136468
456.80	991.80	123.89	18.6570	-0.001531226	-0.00081	-0.00394732

457.50	992.60	124.38	18.4945	-0.005666972	-0.00633	-0.01103393
460.10	998.90	125.76	18.4880	-0.008440695	0.004716	0.00534185
464.00	994.20	125.09	18.5980	0.013015368	0.001107	0.011740244
458.00	993.10	123.63	18.7490	0.00767127	-0.00652	-0.02673636
454.50	999.60	126.98	18.9145	0.010394874	0.006725	-0.00909382
449.80	992.90	128.14	18.7825	-0.00487914	0.007075	0.006812602
452.00	985.90	127.27	18.6765	0.013587468	-0.0121	-0.00634425
445.90	997.90	128.08	18.7665	-0.041942694	0.001404	0.000937354
465.00	996.50	127.96	18.6665	0.006039708	0.006039	0.02044835
462.20	990.50	125.37	18.8800	0.017239925	0.00101	0.002715657
454.30	989.50	125.03	18.9895	0.01128955	-0.01355	-0.01311051
449.20	1 003.00	126.68	18.7505	-0.050569524	-0.01475	0.005938025
472.50	1 017.90	125.93	18.7360	-0.023840527	-0.00039	0.001350868
483.90	1 018.30	125.76	18.6025	0.00186162	0.006502	0.028470813
483.00	1 011.70	122.23	18.6920	0.013758816	0.018455	-0.01453833
476.40	993.20	124.02	18.5030	0.059012257	-0.01052	-0.01948321
449.10	1 003.70	126.46	18.6090	-0.015466504	0.002394	0.012492703
456.10	1 001.30	124.89	18.5800	-0.0041571	0.006714	0.002886699
458.00	994.60	124.53	18.7255	0.019846296	-0.01942	0.011793352
449.00	1 014.10	123.07	18.9935	-0.041445408	-0.00187	0.018203192
468.00	1 016.00	120.85	18.7925	-0.02135162	0.000591	0.001324833
478.10	1 015.40	120.69	19.0110	0.024347556	0.019391	-0.00256527
466.60	995.90	121	19.0310	-0.000856898	-0.01059	0.006217637
467.00	1 006.50	120.25	19.2930	-0.007891691	0.00179	0.016349138
470.70	1 004.70	118.3	19.1265	0.022342498	-0.00566	-0.00362824
460.30	1 010.40	118.73	19.0145	-0.031436353	0.019589	0.005066295
475.00	990.80	118.13	19.1415	0.019558447	-0.03472	-0.00228301
465.80	1 025.80	118.4	18.8740	-0.071251661	0.001561	0.010357508
500.20	1 024.20	117.18	18.7105	0.026743895	0.021614	0.002734577
487.00	1 002.30	116.86	18.6925	0.046226717	-0.00894	0.011965881
465.00	1 011.30	115.47	19.0055	0.012987196	0.001484	0.025524343
459.00	1 009.80	112.56	18.9745	-0.019418086	0.011354	0.014316637
468.00	998.40	110.96	19.0790	0.012903405	0.01524	-0.00897189
462.00	983.30	111.96	19.1375	0.046066604	0.012279	0.015300451
441.20	971.30	110.26	19.3615	0.039293245	0.024492	0.000181406
424.20	947.80	110.24	19.2335	0.023132068	-0.02088	-0.00235571
414.50	967.80	110.5	18.9925	-0.039499045	-0.01059	0.012933963
431.20	978.10	109.08	19.2100	-0.023379474	0.033581	0.005515734
441.40	945.80	108.48	19.2735	0.082613598	-0.00169	0.000922254
406.40	947.40	108.38	19.4465	-0.007354777	-0.01008	-0.00991562
409.40	957.00	109.46	19.4410	-0.037396496	0.022936	0.008809013
425.00	935.30	108.5	19.6600	0.114289146	0.01867	-0.00953961
379.10	918.00	109.54	19.5010	0.02998886	0.01714	-0.00246182
367.90	902.40	109.81	19.8335	0.055608682	0.014511	-0.00671631
348.00	889.40	110.55	20.1070	0.031526254	-0.00135	0.006079046
337.20	890.60	109.88	20.2190	0.015541257	-0.00783	-0.02773344
332.00	897.60	112.97	19.9215	0.02377436	0.007829	0.011663757

324.20	890.60	111.66	20.3450	0.025618396	-0.00816	-0.01458063
316.00	897.90	113.3	20.1915	-0.014452027	0.014019	0.019878535
320.60	885.40	111.07	20.1620	0.02431059	-0.01011	-0.00798103
312.90	894.40	111.96	20.3260	-0.065257342	-0.00824	-0.01445381
334.00	901.80	113.59	20.2220	0.021486679	-0.02799	0.001938668
326.90	927.40	113.37	19.9800	-0.078794782	-0.00741	0.020046108
353.70	934.30	111.12	19.7075	-0.014873292	0.025145	0.027646485
359.00	911.10	108.09	19.7570	0.033997609	0.005724	0.011163945
347.00	905.90	106.89	19.8730	0.002886005	0.000883	-0.0060626
346.00	905.10	107.54	19.9275	-0.006338252	0.007207	-0.01605052
348.20	898.60	109.28	19.7745	0.003164104	0.00782	0.002749017
347.10	891.60	108.98	19.6890	0.029529993	0.013323	0.009033152
337.00	879.80	108	19.6345	0.020081598	0.013618	0.001853569
330.30	867.90	107.8	19.5205	0.044892231	0.017551	0.030612233
315.80	852.80	104.55	19.5470	0.038739512	-0.00456	0.005274527
303.80	856.70	104	19.4420	-0.047880631	-0.00047	-0.00498754
318.70	857.10	104.52	19.5515	0.050517416	0.003858	-0.01141565
303.00	853.80	105.72	19.7810	0.031514509	-0.00979	-0.03284474
293.60	862.20	109.25	19.6990	-0.048530626	0.002439	0.013175664
308.20	860.10	107.82	19.4900	-0.008400696	-0.01523	-0.00083438
310.80	873.30	107.91	19.0020	-0.047747763	-0.00343	-0.00296105
326.00	876.30	108.23	19.1135	-0.054325502	-0.00421	-0.01685793
344.20	880.00	110.07	18.8130	-0.016138679	-0.01119	-0.00081733
349.80	889.90	110.16	18.8365	0.025185873	-0.01251	-0.00018154
341.10	901.10	110.18	18.7720	-0.022036264	0.014419	0.005369263
348.70	888.20	109.59	18.7620	0.042472338	0.01646	0.006959098
334.20	873.70	108.83	18.7275	0.02945408	-0.00593	-0.02172319
324.50	878.90	111.22	18.8150	-0.019832839	0.04123	-0.0002697
331.00	843.40	111.25	19.1840	0.074619374	-0.01868	0.016951863
307.20	859.30	109.38	19.3300	-0.020300359	0.019151	0.030634531
313.50	843.00	106.08	19.6920	0.095661119	-0.00261	-0.00704526
284.90	845.20	106.83	19.2735	0.003516178	-0.0013	-0.00876054
283.90	846.30	107.77	18.8560	-0.017804625	-0.0107	0.01674893
289.00	855.40	105.98	18.9395	-0.060421059	-0.01773	-0.01721277
307.00	870.70	107.82	18.8410	-0.081594998	-0.01787	-0.03723181
333.10	886.40	111.91	19.0720	-0.045195485	-0.0063	8.93615E-05
348.50	892.00	111.9	19.0170	-0.035239728	-0.01701	-0.00596964
361.00	907.30	112.57	18.9360	-0.046016237	-0.00297	-0.01638803
378.00	910.00	114.43	18.6505	0.010371054	0.008608	0.009747607
374.10	902.20	113.32	18.9060	0.011020136	-0.00221	-0.01723502
370.00	904.20	115.29	18.8125	-0.008075414	-0.0054	-0.00277176
373.00	909.10	115.61	18.2180	-0.018592833	0.008284	0.007466609
380.00	901.60	114.75	18.2350	0.030730541	-0.0177	0.022294619
368.50	917.70	112.22	18.1025	-0.022539189	-0.00576	0.013095532
376.90	923.00	110.76	18.0675	0.000530786	0.019252	-0.00054157
376.70	905.40	110.82	18.3180	0.001859971	0.008987	0.035358842
376.00	897.30	106.97	18.4360	0.000265993	-0.03612	-0.01355638

375.90	930.30	108.43	17.9480	-0.049309418	-0.03931	-0.03640387
394.90	967.60	112.45	17.3855	-0.11516291	0.015624	0.018126842
443.10	952.60	110.43	17.9960	0.065516958	0.00801	-0.0150987
415.00	945.00	112.11	17.9260	0.02266455	0.004986	0.003932439
405.70	940.30	111.67	17.8530	0.001726903	0.009618	0.000627044
405.00	931.30	111.6	17.9745	0.025001302	0.016674	0.023573168
395.00	915.90	109	18.1800	0.025642431	-0.01151	-0.02500583
385.00	926.50	111.76	18.0915	-0.030189041	0.001512	-0.00285919
396.80	925.10	112.08	18.1605	0.016004406	0.007704	-0.0074667
390.50	918.00	112.92	18.0775	-0.011204599	-0.01931	-0.0124094
394.90	935.90	114.33	17.8025	-0.049404959	-0.00639	0.016580325
414.90	941.90	112.45	17.9680	-0.020752086	-0.00624	8.89324E-05
423.60	947.80	112.44	17.8760	-0.066881737	0.025107	0.029055549
452.90	924.30	109.22	18.1840	0.025493331	-0.00926	-0.00246902
441.50	932.90	109.49	18.0820	-0.005646542	-0.01827	0.027125014
444.00	950.10	106.56	18.6085	-0.144061343	0.013671	0.020670121
512.80	937.20	104.38	18.4130	0.044460627	0.041169	0.005861175
490.50	899.40	103.77	18.5340	0.09690166	0.009159	0.018773957
445.20	891.20	101.84	18.6460	0.055653284	-0.02919	-0.0172309
421.10	917.60	103.61	18.8650	-0.066377248	-0.01761	-0.01731852
450.00	933.90	105.42	18.4385	-0.064538521	-0.00789	-0.01562385
480.00	941.30	107.08	18.0740	-0.030771659	0.007357	-0.02271356
495.00	934.40	109.54	17.9955	-0.025923685	0.035623	0.015084907
508.00	901.70	107.9	18.1860	0.107988638	0.042593	-0.01170143
456.00	864.10	109.17	18.2720	0.110980567	-0.03614	-0.00036633
408.10	895.90	109.21	18.4570	-0.08453752	-0.03628	-0.04520392
444.10	929.00	114.26	18.3520	-0.087067669	0.023746	-0.00113711
484.50	907.20	114.39	18.0955	0.024022043	-0.00022	0.013199769
473.00	907.40	112.89	18.0080	-0.022369491	-0.0464	-0.02941517
483.70	950.50	116.26	17.6635	-0.062702021	-0.01773	-0.00386316
515.00	967.50	116.71	17.6650	0.009560116	0.023213	0.031419842
510.10	945.30	113.1	17.8455	0.038162657	-0.00137	-0.00862757
491.00	946.60	114.08	17.9495	-0.02613214	-0.00053	-0.00585589
504.00	947.10	114.75	17.9870	-0.003960401	-0.03802	-0.00304547
506.00	983.80	115.1	17.9690	-0.059461425	-0.02361	-0.02479856
537.00	1 007.30	117.99	17.5180	-0.05981369	0.012588	0.004161542
570.10	994.70	117.5	17.3310	-0.000175392	0.021338	0.036487431
570.20	973.70	113.29	17.4840	0.02001661	-0.05017	-0.0229494
558.90	1 023.80	115.92	17.1850	-0.042045079	-0.0156	-0.00438994
582.90	1 039.90	116.43	16.9300	-0.0337357	-0.00814	-0.00042935
602.90	1 048.40	116.48	16.7700	-0.011707612	0.017512	0.007670137
610.00	1 030.20	115.59	16.6610	0.02321829	0.01516	0.028964637
596.00	1 014.70	112.29	16.5995	0.037785502	-0.0101	0.003389834
573.90	1 025.00	111.91	16.8750	-0.025801225	0.010001	0
588.90	1 014.80	111.91	16.8720	0.023017162	0.015992	0.014037844
575.50	998.70	110.35	16.8815	0.013293881	-0.0009	0.013870101
567.90	999.60	108.83	17.0530	-0.001935087	0.011268	-0.0049496

569.00	988.40	109.37	17.0135	-0.021042425	-0.01745	0.009277612
581.10	1 005.80	108.36	17.0600	-0.038651339	-0.01617	-0.02739897
604.00	1 022.20	111.37	16.9275	-0.076623726	0.016572	0.015199786
652.10	1 005.40	109.69	16.9240	0.014208733	-0.01127	0.007320007
642.90	1 016.80	108.89	16.8465	-0.020171598	0.028025	0.006634135
656.00	988.70	108.17	16.9820	0.051293294	0.001316	0.003240894
623.20	987.40	107.82	17.0420	-0.008468533	0.008135	0.037611917
628.50	979.40	103.84	17.0905	0.045073928	-0.02171	0.00202439
600.80	1 000.90	103.63	16.7190	-0.021732828	-0.02613	0.00551552
614.00	1 027.40	103.06	17.0240	-0.072244907	-0.06135	-0.03676955
660.00	1 092.40	106.92	16.9300	-0.053109825	-0.02558	-0.03039748
696.00	1 120.70	110.22	17.2310	-0.012138671	-0.02198	-0.03143677
704.50	1 145.60	113.74	16.9080	-0.054552703	-0.01954	-0.01984745
744.00	1 168.20	116.02	17.0930	-0.048534115	-0.00937	-0.00301218
781.00	1 179.20	116.37	16.9680	-0.030267128	0.003398	0.003788209
805.00	1 175.20	115.93	16.7960	0.002487563	-0.00068	-0.01905308
803.00	1 176.00	118.16	16.8580	0.001994516	-0.00365	0.001439763
801.40	1 180.30	117.99	16.8620	-0.011907856	-0.00482	-0.00127049
811.00	1 186.00	118.14	16.7640	0	-0.01564	-0.00109978
811.00	1 204.70	118.27	16.9820	-0.019052848	0	-0.00606931
826.60	1 204.70	118.99	16.9650	-0.015842866	-0.00464	0.006238429
839.80	1 210.30	118.25	16.9660	-0.0067644	0.013811	-0.0022807
845.50	1 193.70	118.52	17.2260	0.026364619	0.006893	0.002872837
823.50	1 185.50	118.18	17.3230	0.02296975	-0.00101	0.009607692
804.80	1 186.70	117.05	17.3460	-0.007550943	-0.01048	-0.00859178
810.90	1 199.20	118.06	17.2405	-0.019659953	-0.00167	0.005776435
827.00	1 201.20	117.38	17.2930	0.011553792	-0.00324	-0.00915882
817.50	1 205.10	118.46	17.1950	-0.00609758	0.0085	0.009329217
822.50	1 194.90	117.36	17.3275	0.00732157	-0.00609	8.52115E-05
816.50	1 202.20	117.35	17.2775	0.000612557	-0.01437	-0.00042599
816.00	1 219.60	117.4	16.9480	-0.03905573	-0.00865	0
848.50	1 230.20	117.4	16.8640	-0.043246866	-0.0043	0.066744246
886.00	1 235.50	109.82	16.6875	0.004298163	0.008208	-0.01706357
882.20	1 225.40	111.71	16.7825	0.026417064	0.007454	0.001971327
859.20	1 216.30	111.49	16.8300	0.01631013	0.018756	0.035793102
845.30	1 193.70	107.57	16.9790	0.03026531	0.001845	0.028285095
820.10	1 191.50	104.57	17.0640	0.017838943	-0.01152	-0.00210164
805.60	1 205.30	104.79	17.2100	-0.004211576	-0.00414	-0.03266976
809.00	1 210.30	108.27	17.0420	-0.028394036	-0.01215	-0.04796737
832.30	1 225.10	113.59	16.9450	-0.015143675	-0.00399	0.013918047
845.00	1 230.00	112.02	16.8300	0.012503884	0.015155	-0.00169469
834.50	1 211.50	112.21	16.8380	0.02217332	-0.00412	-0.01354303
816.20	1 216.50	113.74	16.8480	-0.013870523	0.002057	-0.00831769
827.60	1 214.00	114.69	17.0200	0.012646083	-0.00959	0.000174398
817.20	1 225.70	114.67	17.1245	-0.015541838	0.000326	-0.04834573
830.00	1 225.30	120.35	16.7290	-0.008517837	-0.00098	-0.0011626
837.10	1 226.50	120.49	16.7510	0.008638326	0.009091	0.014883218

829.90	1 215.40	118.71	16.8630	0.005315948	0.007184	-0.01039145
825.50	1 206.70	119.95	16.6330	0.008638049	-0.00965	0.012752921
818.40	1 218.40	118.43	16.6060	-0.009122486	-0.00532	0.019525709
825.90	1 224.90	116.14	16.4855	-0.009999481	-0.00049	0.006392006
834.20	1 225.50	115.4	16.6720	-0.003470356	-0.00497	0.002689923
837.10	1 231.60	115.09	16.6245	-0.00702342	-0.0068	0.00688786
843.00	1 240.00	114.3	16.8895	0.007740438	-0.00467	-0.01605589
836.50	1 245.80	116.15	17.1495	-0.007265829	-0.00249	-0.00882875
842.60	1 248.90	117.18	17.0595	0.006668279	0.007959	0.020084285
837.00	1 239.00	114.85	17.1200	0.002272592	-0.00177	-0.0018268
835.10	1 241.20	115.06	17.4020	0.003478682	8.06E-05	0.005140952
832.20	1 241.10	114.47	17.4870	0.006268102	-0.00434	0.017181796
827.00	1 246.50	112.52	17.4080	0.00703801	0.001445	0.021469497
821.20	1 244.70	110.13	17.4845	0.008806319	-0.0084	-0.01011843
814.00	1 255.20	111.25	17.2840	-0.012210164	0.000877	-0.01737624
824.00	1 254.10	113.2	17.0620	-0.000121352	0.007524	0.005847452
824.10	1 244.70	112.54	17.1840	0.006329905	-0.00561	0.028389236
818.90	1 251.70	109.39	17.1740	0.00109964	-0.00383	-0.03881981
818.00	1 256.50	113.72	17.2440	-0.003660773	-0.0073	0.005643754
821.00	1 265.70	113.08	17.2890	-0.011865983	0.004752	0.001858819
830.80	1 259.70	112.87	17.0790	-0.001443349	-0.00665	-0.02441814
832.00	1 268.10	115.66	17.0880	-0.00718566	0.002606	-0.01850318
838.00	1 264.80	117.82	16.8220	0.003706143	-0.00103	0.039913535
834.90	1 266.10	113.21	16.8780	0.015571562	0.003006	-0.00423095
822.00	1 262.30	113.69	16.9565	-0.001215806	0.002697	0.01560177
823.00	1 258.90	111.93	16.6300	0.002433091	-0.01106	-0.08245202
821.00	1 272.90	121.55	16.3000	-0.017985879	0.007966	-0.02003651
835.90	1 262.80	124.01	16.3130	0.005758864	-0.00969	-0.02098621
831.10	1 275.10	126.64	16.2770	0.00012033	0.008585	0.000394898
831.00	1 264.20	126.59	16.2790	0.00361664	0.000475	0.013119896
828.00	1 263.60	124.94	16.3105	-0.032088315	0.012102	0.00312638
855.00	1 248.40	124.55	16.4225	-0.003502631	-0.00511	0.007333124
858.00	1 254.80	123.64	16.5630	-0.000931967	0.010334	-0.00500203
858.80	1 241.90	124.26	16.6870	0.01265543	0.007598	0.023697212
848.00	1 232.50	121.35	16.8440	0.00674439	0.007493	-0.0027979
842.30	1 223.30	121.69	16.9740	-0.000830713	-0.01356	-0.02387252
843.00	1 240.00	124.63	16.7900	-0.022984126	0.003878	0.015281051
862.60	1 235.20	122.74	16.6990	-0.001621685	-0.01159	0.000325945
864.00	1 249.60	122.7	16.8715	-0.018349139	0.010054	0.011228246
880.00	1 237.10	121.33	16.8645	0.005583742	-0.02127	-0.04141195
875.10	1 263.70	126.46	16.9015	-0.00671946	-0.00568	0.001266023
881.00	1 270.90	126.3	17.1500	0.001135718	-0.00134	0.027289013
880.00	1 272.60	122.9	17.0940	-0.011187189	-0.0022	-0.00089464
889.90	1 275.40	123.01	17.0435	0.005521452	0.009137	0.001138767
885.00	1 263.80	122.87	17.1350	0.012621692	-0.00316	0.02305198
873.90	1 267.80	120.07	17.1970	-0.007523975	0.008317	0.0120655
880.50	1 257.30	118.63	17.1925	-0.0018155	0	0.014348423

882.10	1 257.30	116.94	17.3230	0.004658835	-0.00278	0.013689998
878.00	1 260.80	115.35	17.3730	-0.01053655	0.001588	-0.00199195
887.30	1 258.80	115.58	17.3710	0.009398246	0.001113	-0.00319613
879.00	1 257.40	115.95	17.4200	-0.009961595	0.009589	0.004321528
887.80	1 245.40	115.45	17.3650	0.008824585	0.004426	0.00034653
880.00	1 239.90	115.41	17.2890	-0.006795043	0.011682	-0.00207738
886.00	1 225.50	115.65	17.3260	0.018223739	0.004826	0.000172951
870.00	1 219.60	115.63	17.2070	0.022198599	-0.00278	0.006159204
850.90	1 223.00	114.92	17.1450	-0.008309487	0.009613	0.006898085
858.00	1 211.30	114.13	17.2375	0.030411147	0.003722	-0.000438
832.30	1 206.80	114.18	17.4045	-0.016326407	0.004235	0.028606375
846.00	1 201.70	110.96	17.6365	0.010575822	-0.0039	-0.00135093
837.10	1 206.40	111.11	17.4210	-0.00702342	-0.00141	-0.01642454
843.00	1 208.10	112.95	17.3845	-0.021127546	-0.00734	-0.00986705
861.00	1 217.00	114.07	17.4705	-0.012694919	0.003952	0
872.00	1 212.20	114.07	17.6450	0.004482509	-0.00658	-0.00977064
868.10	1 220.20	115.19	17.4615	0.001152605	0.00082	0.025230999
867.10	1 219.20	112.32	17.4530	-0.003338901	-0.00278	-0.03722579
870.00	1 222.60	116.58	17.3240	-0.005844954	-0.00847	0.007490672
875.10	1 233.00	115.71	17.3675	-0.016321342	-0.00405	0.011211172
889.50	1 238.00	114.42	17.4065	-0.014952298	0.007052	-0.02135743
902.90	1 229.30	116.89	17.5100	-0.010028185	-0.00106	0.030841171
912.00	1 230.60	113.34	17.7040	0.001097093	-0.01091	0.009485466
911.00	1 244.10	112.27	17.6435	-0.028993809	0.002334	0.007151188
937.80	1 241.20	111.47	17.7895	0.019163037	0.002581	-0.02165317
920.00	1 238.00	113.91	17.7615	-0.01242252	-0.00298	0.037021395
931.50	1 241.70	109.77	17.8600	-0.003750339	0.000242	0.027242093
935.00	1 241.40	106.82	17.9660	0.004824453	0.003389	0.044213497
930.50	1 237.20	102.2	17.8435	-0.003968472	0.005105	-0.01215673
934.20	1 230.90	103.45	17.8750	0.003646117	-0.01548	0.006497623
930.80	1 250.10	102.78	17.8540	-0.016198138	0.002162	0.002923124
946.00	1 247.40	102.48	18.0620	0.021260349	-0.00312	-0.0062257
926.10	1 251.30	103.12	18.0285	0.00660855	0.010524	0.031423418
920.00	1 238.20	99.93	17.8740	0.002285218	0.001859	-0.008073
917.90	1 235.90	100.74	17.8425	0.006448462	-0.01214	0.005774033
912.00	1 251.00	100.16	17.6300	-0.014153747	0.005049	0.009126988
925.00	1 244.70	99.25	17.6120	0.020202707	-0.00353	-0.00191253
906.50	1 249.10	99.44	17.7470	0.00997791	-0.00447	0.000100568
897.50	1 254.70	99.43	17.6670	-0.012731974	0.017122	-0.02247509
909.00	1 233.40	101.69	17.5925	0.020898938	-0.01024	0.003842559
890.20	1 246.10	101.3	17.4680	-0.013168363	-0.00064	0.008924204
902.00	1 246.90	100.4	17.3705	0.016769538	0.008052	0.014345433
887.00	1 236.90	98.97	17.6715	0.000902324	0.008118	0.01948743
886.20	1 226.90	97.06	17.8185	0.018449447	-0.01697	0.005993611
870.00	1 247.90	96.48	17.5860	0.001150086	0.002648	0.004570962
869.00	1 244.60	96.04	17.6550	0.002073495	0.008067	-0.00746891
867.20	1 234.60	96.76	17.6710	0.020033281	-0.01711	0

850.00	1 255.90	96.76	17.7360	-0.030129741	-0.00975	-0.00082645
876.00	1 268.20	96.84	17.8435	-0.0142811	0.010702	0.005903388
888.60	1 254.70	96.27	18.0315	0.000675448	-0.01346	-0.02208729
888.00	1 271.70	98.42	18.0245	-0.000112606	-0.00361	0.006012757
888.10	1 276.30	97.83	18.1700	0.034247177	0.027081	-0.00030661
858.20	1 242.20	97.86	18.2210	0.005374473	-0.00386	0
853.60	1 247.00	97.86	18.2530	-0.003975219	0.002248	0
857.00	1 244.20	97.86	18.5295	0.008672268	0.01156	0.010890892
849.60	1 229.90	96.8	18.8580	0.016137037	0.012353	0.018243925
836.00	1 214.80	95.05	19.0230	0.009857034	-0.02319	0.008452243
827.80	1 243.30	94.25	19.0220	-0.036997343	-0.00785	-0.00739961
859.00	1 253.10	94.95	18.9310	-0.024152985	0.008415	-0.00126303
880.00	1 242.60	95.07	18.8740	0.00113701	-0.00929	0.016438145
879.00	1 254.20	93.52	18.7010	-0.025829622	0.008648	-0.02429611
902.00	1 243.40	95.82	18.7575	0.003999117	0.015072	0.035262787
898.40	1 224.80	92.5	18.9140	0.009393941	-0.00821	-0.01096667
890.00	1 234.90	93.52	19.1450	-0.011173301	0.012221	0
900.00	1 219.90	93.52	19.3085	0.006688988	0.002955	0.004715979
894.00	1 216.30	93.08	19.2690	0.013513719	-0.00574	-0.00589151
882.00	1 223.30	93.63	19.2560	-0.00790518	-0.00033	0.000854792
889.00	1 223.70	93.55	19.3070	0.011312338	0.007958	0.004714463
879.00	1 214.00	93.11	19.2870	0.010291686	0.012099	0.019521279
870.00	1 199.40	91.31	19.2560	0.018562018	0.009803	0.002192743
854.00	1 187.70	91.11	19.1105	0.010594566	-0.01022	0.000219539
845.00	1 199.90	91.09	19.0150	-0.025702349	0.006186	-0.00263129
867.00	1 192.50	91.33	19.0350	0.01230142	0.00336	0.007694037
856.40	1 188.50	90.63	18.7810	0.005033666	-0.00804	0.002541017
852.10	1 198.10	90.4	18.8000	-0.0021102	0.014291	0.009558815
853.90	1 181.10	89.54	19.0365	0.014628077	0.010212	-0.00434614
841.50	1 169.10	89.93	18.9390	0.004048589	0.002741	0.002114989
838.10	1 165.90	89.74	18.8685	0.027336003	-0.00786	-0.0115224
815.50	1 175.10	90.78	18.8910	-0.003794142	8.51E-05	-0.005164
818.60	1 175.00	91.25	18.7710	0.005635198	0.007689	0.006597055
814.00	1 166.00	90.65	18.6180	0.008760621	0.000257	0.014220882
806.90	1 165.70	89.37	18.8540	-0.007777337	0.014865	0.009104767
813.20	1 148.50	88.56	19.0340	0.022634967	0.036622	0.029100461
795.00	1 107.20	86.02	19.2175	0.059603131	-0.0106	0.001395998
749.00	1 119.00	85.9	18.9540	-0.01457945	-0.00668	0.013124163
760.00	1 126.50	84.78	18.6725	-0.019544596	0.000888	0.002953165
775.00	1 125.50	84.53	18.5500	-0.000258031	0.003115	0.025885208
775.20	1 122.00	82.37	18.4805	0.001549187	-0.01723	0.000364277
774.00	1 141.50	82.34	18.1450	-0.042990185	-0.00489	-0.01002969
808.00	1 147.10	83.17	18.0485	-0.002719072	-0.00331	-0.00635227
810.20	1 150.90	83.7	18.0680	0.002471578	0.006451	-0.0033397
808.20	1 143.50	83.98	18.2420	0.02721683	-0.00314	-0.01782073
786.50	1 147.10	85.49	18.1050	-0.005705245	-0.00738	-0.00676151
791.00	1 155.60	86.07	17.9860	-0.006175582	0.013065	-0.02308457

795.90	1 140.60	88.08	18.0430	0.040905761	-0.01462	0.001818182
764.00	1 157.40	87.92	17.8720	-0.039145197	-0.01254	-0.00011373
794.50	1 172.00	87.93	17.8480	-0.023018124	0.006763	0.008910271
813.00	1 164.10	87.15	17.6400	0	-0.0018	0.001148106
813.00	1 166.20	87.05	17.5070	-0.011374182	-0.00633	0.002530482
822.30	1 173.60	86.83	17.2735	0.004631895	0.004526	0.017426092
818.50	1 168.30	85.33	17.2960	0.009205343	0.00644	0.007292434
811.00	1 160.80	84.71	17.4570	0.002469137	0.002847	0.007702829
809.00	1 157.50	84.06	17.6330	0.004832424	0.001297	0.019096239
805.10	1 156.00	82.47	17.6595	0.003857885	-0.00681	0.014657646
802.00	1 163.90	81.27	17.9235	-0.017183191	0.008109	-0.01647484
815.90	1 154.50	82.62	17.6430	0.015937084	-0.00311	0.008630698
803.00	1 158.10	81.91	17.5510	-0.000498008	0.017421	0.014263121
803.40	1 138.10	80.75	17.5470	0.008625593	-0.00167	-0.00654202
796.50	1 140.00	81.28	17.7750	0.012634407	0.007307	-0.00490919
786.50	1 131.70	81.68	17.5590	0.012152372	-0.00423	0.006879634
777.00	1 136.50	81.12	17.8580	-0.005262832	0.002555	-0.01444157
781.10	1 133.60	82.3	17.4415	0.003976658	-0.00747	0.004383836
778.00	1 142.10	81.94	17.5175	-0.004104675	-0.00018	-0.01945798
781.20	1 142.30	83.55	17.4440	0.002820153	-0.00837	-0.00549058
779.00	1 151.90	84.01	17.5320	-0.00588764	0.010384	0.012215721
783.60	1 140.00	82.99	17.5060	0.027820905	-0.01004	-0.00108388
762.10	1 151.50	83.08	17.6275	-0.016785249	0.008635	-0.00958321
775.00	1 141.60	83.88	17.5475	0.019544596	-0.00359	0.002506716
760.00	1 145.70	83.67	17.6380	0.001975634	0.002272	-0.01588841
758.50	1 143.10	85.01	17.5545	0.017555977	0.011969	0.019720287
745.30	1 129.50	83.35	17.6810	0.0303776	0.000974	-0.00083948
723.00	1 128.40	83.42	17.9635	0	0.001508	0.008789413
723.00	1 126.70	82.69	17.8720	0.006243517	-0.00434	0.023493066
718.50	1 131.60	80.77	18.0185	-0.011623211	0.009768	0.024819524
726.90	1 120.60	78.79	18.0465	0.016646244	-0.00906	0.013802136
714.90	1 130.80	77.71	18.2755	-0.007802743	-0.00441	-0.01304033
720.50	1 135.80	78.73	18.2600	-0.004707846	0.005651	0.013297728
723.90	1 129.40	77.69	18.4730	0.017980831	0.000177	0.005161968
711.00	1 129.20	77.29	18.3410	-0.002808991	-0.00741	-0.01884067
713.00	1 137.60	78.76	18.5970	-0.007127415	0.003699	-0.00834497
718.10	1 133.40	79.42	18.8425	0.015578169	0.005751	0.025375923
707.00	1 126.90	77.43	18.8860	0.006242926	-0.01103	-0.01868017
702.60	1 139.40	78.89	18.8985	-0.016795258	-0.00245	0.005465536
714.50	1 142.20	78.46	18.9080	-0.001957495	-0.00454	-0.00546554
715.90	1 147.40	78.89	19.1265	-0.00986873	-0.00174	0.004701108
723.00	1 149.40	78.52	19.1180	-0.011004238	0.009265	0.012559437
731.00	1 138.80	77.54	19.4695	0.016273977	-0.00351	-0.00424684
719.20	1 142.80	77.87	19.4850	-0.013397065	0.006056	0.005020931
728.90	1 135.90	77.48	19.3010	0.017158301	-0.0085	0.022185433
716.50	1 145.60	75.78	19.5165	-0.029565577	-0.02201	0.009946372
738.00	1 171.10	75.03	19.2005	-0.002706362	-0.00604	0.001333689

740.00	1 178.20	74.93	19.2590	-0.006734032	0.01859	-0.00797558
745.00	1 156.50	75.53	19.4290	0.021710486	0.013405	0.000264831
729.00	1 141.10	75.51	19.5035	0.023314961	-0.01185	-0.00712592
712.20	1 154.70	76.05	19.6020	-0.009502587	0.002515	0.011771844
719.00	1 151.80	75.16	19.3890	-0.000973101	0.003305	0.008820049
719.70	1 148.00	74.5	19.5210	0.00781145	0.005153	0.051787942
714.10	1 142.10	70.74	19.6800	0.019942674	-0.00889	0.001839406
700.00	1 152.30	70.61	19.7230	-0.020782539	-0.02384	-0.03438295
714.70	1 180.10	73.08	19.5925	-0.027327121	0.005779	-0.00545853
734.50	1 173.30	73.48	19.5575	0.007516264	-0.0127	-0.01833924
729.00	1 188.30	74.84	19.3545	-0.016326893	0.003119	-0.00346806
741.00	1 184.60	75.1	19.2610	-0.004980827	-0.01016	-0.02160253
744.70	1 196.70	76.74	19.2495	-0.016117565	0.01236	0.028818914
756.80	1 182.00	74.56	19.3800	0.033318504	0.007217	-0.00774887
732.00	1 173.50	75.14	19.4930	0.010574843	0.005554	-0.0196356
724.30	1 167.00	76.63	19.3365	0.00999037	-0.00564	-0.01553832
717.10	1 173.60	77.83	19.3390	-0.011645771	-0.01581	-0.02612373
725.50	1 192.30	79.89	18.7260	-0.018166176	-0.00602	-0.02044301
738.80	1 199.50	81.54	18.6930	-0.013043956	0.000334	0.003193714
748.50	1 199.10	81.28	18.7290	-0.007321164	0.001669	-0.01973508
754.00	1 197.10	82.9	18.7580	-0.014483466	-0.00732	-0.0103205
765.00	1 205.90	83.76	18.7125	-0.01169604	0.013525	0.001912046
774.00	1 189.70	83.6	18.7430	0.005181359	-0.0005	0.020178296
770.00	1 190.30	81.93	18.7170	-0.012903405	0.013278	0.055587288
780.00	1 174.60	77.5	18.9910	0.017459221	-0.0142	-0.01409376
766.50	1 191.40	78.6	18.9670	-0.052974854	0.006315	0.024991639
808.20	1 183.90	76.66	19.0055	0.010197825	-0.00463	0.014982538
800.00	1 189.40	75.52	19.2695	0.003757049	0.011926	-0.03102843
797.00	1 175.30	77.9	19.3370	0.035763709	0.007601	0.008120171
769.00	1 166.40	77.27	19.4655	0.023552171	-0.00291	-0.00413277
751.10	1 169.80	77.59	19.5130	0.006813198	0.008154	0.024000109
746.00	1 160.30	75.75	19.7590	0.014447021	0.015372	-0.00736555
735.30	1 142.60	76.31	19.6630	0.026598412	-0.00428	0.000262123
716.00	1 147.50	76.29	19.5630	-0.002789402	-0.00487	0.009747179
718.00	1 153.10	75.55	19.6585	-0.028828352	-0.01873	0.000397167
739.00	1 174.90	75.52	19.6440	-0.024725616	8.51E-05	-0.01459112
757.50	1 174.80	76.63	20.0220	-0.003163308	0.00213	0.002351713
759.90	1 172.30	76.45	19.9725	-0.000789266	0.020337	0.027853259
760.50	1 148.70	74.35	20.1165	0.047804457	0.000784	-0.01136756
725.00	1 147.80	75.2	20.0295	-0.006187713	0.006117	0.008547061
729.50	1 140.80	74.56	20.0315	0.007567976	0.020636	0.021555773
724.00	1 117.50	72.97	20.1800	0.067120119	-0.00134	0.016860543
677.00	1 119.00	71.75	20.4210	-0.018730428	0.017034	0.000278785
689.80	1 100.10	71.73	20.5510	0.020208624	-0.00345	-0.04377872
676.00	1 103.90	74.94	21.0030	0.004596346	-0.00884	0.009788881
672.90	1 113.70	74.21	21.1680	-0.019135114	-0.01824	-0.03248115
685.90	1 134.20	76.66	20.9530	-0.028883393	0.003179	0.005887372

706.00	1 130.60	76.21	20.8165	-0.00635371	-0.00644	0.013740472
710.50	1 137.90	75.17	20.9210	-0.005753998	-0.01058	-0.00066494
714.60	1 150.00	75.22	20.8710	-0.018578103	-0.01929	-0.03731679
728.00	1 172.40	78.08	20.9960	-0.006844654	-0.01103	-0.00574678
733.00	1 185.40	78.53	20.9300	-0.024393097	0.017445	0.019026156
751.10	1 164.90	77.05	20.7820	0.020988259	0.005855	-0.00608141
735.50	1 158.10	77.52	20.7900	0.008876808	-0.00276	0.018224925
729.00	1 161.30	76.12	20.9050	-0.014976454	0.002932	0.010963719
740.00	1 157.90	75.29	20.8100	0.012236726	0.003981	0.002393618
731.00	1 153.30	75.11	20.9410	0.006863445	0.006786	0.024665985
726.00	1 145.50	73.28	21.2735	0.008437701	0.011237	-0.01422692
719.90	1 132.70	74.33	21.2665	0.026604426	0.02268	0.008783247
701.00	1 107.30	73.68	21.6430	0.054225738	0.0038	0.031013443
664.00	1 103.10	71.43	21.7190	0.018237588	-0.01019	0.004771269
652.00	1 114.40	71.09	21.8610	-0.0240939	-0.01858	-0.01049474
667.90	1 135.30	71.84	21.7325	-0.013532811	-0.04116	-0.0176605
677.00	1 183.00	73.12	21.2495	-0.098393912	0.020496	0.004660735
747.00	1 159.00	72.78	21.0060	0.021651725	0.00415	-0.00411354
731.00	1 154.20	73.08	21.0170	-0.038773386	-0.01343	0.00109529
759.90	1 169.80	73	21.0850	-0.006688988	0.021166	-0.00764196
765.00	1 145.30	73.56	20.6690	0.01993597	0.009034	0.041212908
749.90	1 135.00	70.59	21.0295	0.013289678	0.034053	0.049512907
740.00	1 097.00	67.18	20.7290	0.035347144	-0.05291	-0.0356763
714.30	1 156.60	69.62	20.6605	-0.085423482	0.017619	-0.01185136
778.00	1 136.40	70.45	20.3670	0.028685148	-0.00527	0.012713549
756.00	1 142.40	69.56	20.6770	0.007701539	-0.04107	-0.03253009
750.20	1 190.30	71.86	20.5160	-0.075459079	-0.02095	-0.04436705
809.00	1 215.50	75.12	21.0220	-0.019584469	0.018601	0.016780043
825.00	1 193.10	73.87	20.5280	0.038425878	-0.00134	-0.0340685
793.90	1 194.70	76.43	20.6020	-0.015126234	-0.02537	-0.03824902
806.00	1 225.40	79.41	20.2810	-0.03414966	-0.00821	0.008981149
834.00	1 235.50	78.7	20.1315	-0.005381179	0.023255	-0.0038047
838.50	1 207.10	79	20.1450	0.047002854	-0.02107	0.01171391
800.00	1 232.80	78.08	20.0450	-0.037054908	0.072487	0.020704673
830.20	1 146.60	76.48	20.1200	0.136875243	-0.02888	-0.04761893
724.00	1 180.20	80.21	20.6980	-0.061599122	-0.01229	-0.02584441
770.00	1 194.80	82.31	20.3250	-0.029432707	-0.05003	-0.03673639
793.00	1 256.10	85.39	19.9370	-0.062329273	-0.02088	-0.03113002
844.00	1 282.60	88.09	19.3750	-0.022957204	0.005159	0.021804857
863.60	1 276.00	86.19	19.2770	0.015285287	-0.00071	-0.00728285
850.50	1 276.90	86.82	19.2280	-0.001762115	0.005103	0.026020954
852.00	1 270.40	84.59	19.3410	0.020154802	-0.0218	-0.0117524
835.00	1 298.40	85.59	19.4390	-0.027172375	-0.0124	-0.01311608
858.00	1 314.60	86.72	18.9810	-0.023042494	0.016877	0.007291277
878.00	1 292.60	86.09	18.9710	0.021877672	0.012534	0.017695429
859.00	1 276.50	84.58	19.1020	0.012888286	-0.00897	0.000354757
848.00	1 288.00	84.55	18.8745	-0.022273675	0.002721	-0.00212665

867.10	1 284.50	84.73	18.8180	0.000115334	-0.00109	0.019545373
867.00	1 285.90	83.09	18.7855	0.004045079	-0.00736	-0.0204891
863.50	1 295.40	84.81	18.6280	0.001738627	-0.00677	-0.02434457
862.00	1 304.20	86.9	18.5090	-0.018391323	0.008161	0.012622482
878.00	1 293.60	85.81	18.3530	-0.002161671	0.030293	0.028007739
879.90	1 255.00	83.44	18.4550	0.038225641	0.005994	-0.02099099
846.90	1 247.50	85.21	18.5175	0.012954011	0.010638	0.029053121
836.00	1 234.30	82.77	18.6675	0.019324273	0.011817	0.001692866
820.00	1 219.80	82.63	18.7730	0.020949626	-0.019	-0.02226037
803.00	1 243.20	84.49	18.8705	-0.022777224	0.005727	-0.00660613
821.50	1 236.10	85.05	18.8210	0.010400828	0.007063	0.006724499
813.00	1 227.40	84.48	18.8000	0.017996142	0.003755	0.022142009
798.50	1 222.80	82.63	18.6620	0.004644457	0.021492	0.027731838
794.80	1 196.80	80.37	18.8170	0.021363986	-0.01328	0.011387222
778.00	1 212.80	79.46	18.8930	-0.014039797	0.00695	-0.00539694
789.00	1 204.40	79.89	18.8520	0.001775974	-0.00522	0.024198305
787.60	1 210.70	77.98	18.9680	0.00254259	0.011464	-0.00842809
785.60	1 196.90	78.64	19.1000	0.023960956	0.010921	0.007787108
767.00	1 183.90	78.03	19.0705	0.009168368	-0.00278	-0.01450407
760.00	1 187.20	79.17	18.8540	-0.003939598	0.00177	0.013735432
763.00	1 185.10	78.09	18.7565	0.015186822	-0.0032	-0.00357919
751.50	1 188.90	78.37	18.7740	0.000665557	-0.01635	-0.0217098
751.00	1 208.50	80.09	18.6675	-0.024984863	-0.00791	-0.00236952
770.00	1 218.10	80.28	18.4760	-0.020566278	0.013389	0.010392631
786.00	1 201.90	79.45	18.4765	0.020566278	0.012727	0.030284049
770.00	1 186.70	77.08	18.6690	0.010443959	-0.00194	-0.0294026
762.00	1 189.00	79.38	18.5515	0.002628122	0.010229	-0.00075557
760.00	1 176.90	79.44	18.6550	0.033311889	-0.00042	-0.01064306
735.10	1 177.40	80.29	18.7130	-0.010150997	0.004853	0.019112866
742.60	1 171.70	78.77	18.8370	-0.001883493	0.000854	-0.00215586
744.00	1 170.70	78.94	18.8045	-0.001343184	0.011944	-0.00328823
745.00	1 156.80	79.2	18.8240	0.029283672	0.008508	0.016807118
723.50	1 147.00	77.88	18.9825	0.017428116	-0.00183	-0.00996559
711.00	1 149.10	78.66	18.8035	-0.013966707	0.001742	0.014856831
721.00	1 147.10	77.5	18.9440	0.00695897	-0.00078	0.018623967
716.00	1 148.00	76.07	19.0620	0.001537494	0.008134	-0.00380503
714.90	1 138.70	76.36	19.0265	0.013235901	0.011216	0.02627191
705.50	1 126.00	74.38	19.1470	-0.002123895	-0.0106	-0.03461833
707.00	1 138.00	77	19.1410	-0.014742282	-0.00473	0.007299302
717.50	1 143.40	76.44	19.0730	-0.003339366	-0.00975	-0.00664974
719.90	1 154.60	76.95	18.9340	-0.030371692	0.003992	0.000910096
742.10	1 150.00	76.88	18.8925	0.019045604	0.007419	0.003518148
728.10	1 141.50	76.61	18.8540	0.010492986	-0.00959	0.022707246
720.50	1 152.50	74.89	18.9710	-0.003463807	0.010204	0.000935141
723.00	1 140.80	74.82	18.8820	0.033043428	0.024311	0.045527649
699.50	1 113.40	71.49	19.0670	0.024603267	-0.00769	-0.01195787
682.50	1 122.00	72.35	18.9440	-0.004385972	-0.00923	0.02732219

685.50	1 132.40	70.4	19.0240	-0.018070604	0.018539	0
698.00	1 111.60	70.4	18.9200	0.027303468	0.017057	0.011141381
679.20	1 092.80	69.62	19.1810	0.035517332	-0.00137	-0.00701355
655.50	1 094.30	70.11	19.1740	-0.027831808	-0.03669	-0.01683089
674.00	1 135.20	71.3	19.1370	-0.024909713	-0.03378	-0.06080611
691.00	1 174.20	75.77	18.7420	-0.056136828	-0.00204	0.024448482
730.90	1 176.60	73.94	18.6100	-0.001367241	-0.01006	0.032438248
731.90	1 188.50	71.58	18.6060	-0.011006294	0.009978	0.005322887
740.00	1 176.70	71.2	18.9040	0.020754431	-0.00821	0.007754709
724.80	1 186.40	70.65	18.8090	-0.020754431	0.001096	-0.0292908
740.00	1 185.10	72.75	18.6735	-0.01342302	0.001605	0.001650846
750.00	1 183.20	72.63	18.5060	-0.00253013	-0.00967	0.00621506
751.90	1 194.70	72.18	18.3745	-0.002523744	0.009503	-0.00759095
753.80	1 183.40	72.73	18.4350	0.016721679	-0.02734	-0.01906635
741.30	1 216.20	74.13	18.5475	-0.045747119	-0.00337	-0.01286709
776.00	1 220.30	75.09	18.4630	-0.017880425	0.008559	-0.00119784
790.00	1 209.90	75.18	18.0340	-0.010075652	0.020289	-0.02197023
798.00	1 185.60	76.85	18.0490	0.014897384	-0.01124	-0.00984081
786.20	1 199.00	77.61	17.9380	-0.011130902	0.012083	0.00051553
795.00	1 184.60	77.57	18.0160	0.045023681	0.006776	-0.02306569
760.00	1 176.60	79.38	18.0710	0.008854878	-0.00509	-0.00952866
753.30	1 182.60	80.14	18.0420	-0.000265463	0.021712	0.000998752
753.50	1 157.20	80.06	18.2300	0.02690142	0.003896	-0.00635002
733.50	1 152.70	80.57	18.3745	0.010139851	-0.00346	0.005351267
726.10	1 156.70	80.14	18.2060	-0.009457956	0.00607	0.010915358
733.00	1 149.70	79.27	18.2835	0.025142919	0.015073	0.002779183
714.80	1 132.50	79.05	18.1650	0.02593499	0.013513	0.018255438
696.50	1 117.30	77.62	18.4325	-0.002867385	-0.00749	0.012575521
698.50	1 125.70	76.65	18.3970	-0.006279455	0.010089	0.000783085
702.90	1 114.40	76.59	18.3825	0.018523037	0.008199	0.036159728
690.00	1 105.30	73.87	18.4210	0.010196738	-0.00559	0.030653214
683.00	1 111.50	71.64	18.4770	-0.012802037	0.002162	-0.01523786
691.80	1 109.10	72.74	18.3685	0.01207024	0.000451	0.012032508
683.50	1 108.60	71.87	18.3515	0.000731797	-0.00818	0.008243148
683.00	1 117.70	71.28	18.2845	-0.027438544	0.002867	-0.02849038
702.00	1 114.50	73.34	18.0680	-0.012739026	0.015918	0.027789166
711.00	1 096.90	71.33	18.0555	0.029546144	-0.00754	0.001964637
690.30	1 105.20	71.19	17.6570	-0.026729241	-0.00433	0.015857617
709.00	1 110.00	70.07	17.6580	-0.011220314	0.008141	-0.01191672
717.00	1 101.00	70.91	17.5020	0.006295928	-0.00444	-0.03764108
712.50	1 105.90	73.63	17.4870	0.003233292	-0.0132	-0.01750179
710.20	1 120.60	74.93	17.5100	-0.036362615	-0.01681	-0.01654462
736.50	1 139.60	76.18	17.3030	-0.004605806	-0.00917	-0.02027096
739.90	1 150.10	77.74	17.2880	-0.008210558	0.019314	-0.00025723
746.00	1 128.10	77.76	17.1455	0.01417506	0.010694	0.010341354
735.50	1 116.10	76.96	17.2085	0.016449994	-0.00116	-0.02210319
723.50	1 117.40	78.68	17.1840	0.001383126	0.000806	0.011633241

722.50	1 116.50	77.77	17.4245	0.010434877	0.004488	0.023022412
715.00	1 111.50	76	17.4525	0.009838449	-0.01474	-0.00747201
708.00	1 128.00	76.57	17.1790	-0.045691475	-0.0112	0.01606143
741.10	1 140.70	75.35	17.4165	-0.017256799	-0.01203	-0.03635816
754.00	1 154.50	78.14	17.2905	-0.001987414	0.003818	0.03291354
755.50	1 150.10	75.61	17.4445	-0.003303604	0.002699	-0.01104838
758.00	1 147.00	76.45	17.2190	-0.000659413	0.001309	-0.02824354
758.50	1 145.50	78.64	17.0210	0.001451283	-0.00601	0.019258523
757.40	1 152.40	77.14	16.9980	-0.021680358	8.68E-05	0.030670387
774.00	1 152.30	74.81	17.0815	-0.010922049	-0.01422	-0.00493367
782.50	1 168.80	75.18	17.2195	-0.018987912	0.009629	-0.02379031
797.50	1 157.60	76.99	17.0240	0.016435262	0.000605	-0.00103856
784.50	1 156.90	77.07	17.0160	-0.000637146	-0.00095	-0.00142626
785.00	1 158.00	77.18	17.0500	-0.003814372	0.019974	0.021875258
788.00	1 135.10	75.51	17.3430	0.034864732	-0.01182	-0.03270011
761.00	1 148.60	78.02	17.3605	0.003949972	0.017034	-0.00243231
758.00	1 129.20	78.21	17.4755	0.002642009	0.015349	0.032883592
756.00	1 112.00	75.68	17.8340	0.022743455	-0.01641	0.001586882
739.00	1 130.40	75.56	17.8890	-0.012105057	-0.00968	0.00863965
748.00	1 141.40	74.91	18.0250	-0.015915455	0.010392	-0.02985296
760.00	1 129.60	77.18	17.7210	0.052679296	-0.0199	0.006369034
721.00	1 152.30	76.69	17.6970	-0.043426091	-0.01439	0.003134389
753.00	1 169.00	76.45	17.5360	-0.035228692	-0.00529	-0.01647569
780.00	1 175.20	77.72	17.2670	-0.006389798	0.020633	-0.00820097
785.00	1 151.20	78.36	17.2910	0.009085737	-0.01054	0.007943668
777.90	1 163.40	77.74	17.2480	-0.004617169	-0.00489	0.015948474
781.50	1 169.10	76.51	17.2880	-0.011703479	0.014735	0.008531915
790.70	1 152.00	75.86	17.2160	0.006598171	-0.00355	0.017017162
785.50	1 156.10	74.58	17.3395	0.013328404	-0.00526	0.019496962
775.10	1 162.20	73.14	17.2730	-0.012691664	-0.01231	0.013489537
785.00	1 176.60	72.16	17.3510	0	0.011368	0.018885642
785.00	1 163.30	70.81	17.4620	0.037642342	-0.0173	0.000847697
756.00	1 183.60	70.75	17.4810	-0.018349139	0.030975	0.018545467
770.00	1 147.50	69.45	17.5915	0.026317308	0.004017	0.014211376
750.00	1 142.90	68.47	17.4990	0.004141899	0.007641	0.012048339
746.90	1 134.20	67.65	17.5170	0.009281121	-0.00878	-0.01263237
740.00	1 144.20	68.51	17.4230	0.006779687	0.018168	0.048600429
735.00	1 123.60	65.26	17.4240	0.042808092	0.006877	-0.01882266
704.20	1 115.90	66.5	17.4470	0.013006687	-0.03262	-0.00928011
695.10	1 152.90	67.12	17.5000	-0.05649482	-0.00364	0.019558319
735.50	1 157.10	65.82	17.2485	-0.047786132	0.010425	0.018245044
771.50	1 145.10	64.63	17.2610	0.025600348	0.002361	0.000464288
752.00	1 142.40	64.6	17.1445	0.033122325	-0.01477	-0.006019
727.50	1 159.40	64.99	17.1990	-0.016901043	-0.00602	-0.03685661
739.90	1 166.40	67.43	17.0965	-0.021658601	0.002919	-0.03239268
756.10	1 163.00	69.65	17.0025	0.002516058	0.020062	0.022358655
754.20	1 139.90	68.11	17.1300	0.024427466	-0.01368	-0.03760437

736.00	1 155.60	70.72	17.0920	0.004084417	-0.00759	-0.01180784
733.00	1 164.40	71.56	17.1090	-0.038800854	0.008279	0.043556539
762.00	1 154.80	68.51	17.1120	0.018810993	0.018617	0.029326746
747.80	1 133.50	66.53	17.3185	0.025461831	-8.8E-05	-0.00569546
729.00	1 133.60	66.91	17.4315	-0.00547197	-0.00686	-0.02727375
733.00	1 141.40	68.76	17.4765	-0.012473047	-0.00533	-0.00290445
742.20	1 147.50	68.96	17.4840	-0.013117575	-0.00469	-0.01153415
752.00	1 152.90	69.76	17.4935	-0.007947062	-0.00493	0.008059917
758.00	1 158.60	69.2	17.6010	-0.006705699	0.009104	0.049773306
763.10	1 148.10	65.84	17.8310	0.042975625	0.012798	-0.01417608
731.00	1 133.50	66.78	17.9325	0.026335548	0.011892	-0.01220435
712.00	1 120.10	67.6	18.0345	0.011299555	-0.04128	-0.01730502
704.00	1 167.30	68.78	18.0890	-0.065957968	0.004379	-0.00348331
752.00	1 162.20	69.02	17.7850	0.002396486	0.025711	-0.05331964
750.20	1 132.70	72.8	17.7605	0.089607993	-0.02269	0.029553308
685.90	1 158.70	70.68	17.7610	-0.077268781	-0.00774	-0.00084854
741.00	1 167.70	70.74	17.8570	-0.004980827	-0.02294	-0.03281718
744.70	1 194.80	73.1	17.7520	-0.030157027	-0.00075	-0.0168208
767.50	1 195.70	74.34	17.7545	-0.014230512	0.04823	0.00851069
778.50	1 139.40	73.71	17.7745	0.08929108	0.002197	-0.00054252
712.00	1 136.90	73.75	17.9015	0.016997576	0.011767	0.012827687
700.00	1 123.60	72.81	18.0320	0.027518029	-0.01563	0.05868652
681.00	1 141.30	68.66	18.1210	-0.027518029	0.011101	0.000145656
700.00	1 128.70	68.65	18.2775	0.01947411	-0.03713	-0.03829586
686.50	1 171.40	71.33	18.0855	-0.043469615	0.003849	-0.03349958
717.00	1 166.90	73.76	18.0405	0.00013948	0.045586	-0.00365384
716.90	1 114.90	74.03	18.1710	0.070648187	0.001167	0.033654711
668.00	1 113.60	71.58	18.2170	-0.004778982	-0.03468	-0.03040752
671.20	1 152.90	73.79	18.1715	-0.063215388	0.010025	-0.00567569
715.00	1 141.40	74.21	18.2125	-0.002793298	-0.00228	-0.00537563
717.00	1 144.00	74.61	18.0630	-0.012474174	0.020756	0.002953022
726.00	1 120.50	74.39	18.0245	0.061055155	0.025581	0.007691827
683.00	1 092.20	73.82	17.9310	0.040334071	-0.00101	0.012541059
656.00	1 093.30	72.9	17.7860	-0.006079046	0.025475	0.039451192
660.00	1 065.80	70.08	17.9230	0.046837526	0.033973	0.018143046
629.80	1 030.20	68.82	18.1740	0.061895674	0.035469	0.045026549
592.00	994.30	65.79	18.2175	0.08990253	0.007774	-0.04080375
541.10	986.60	68.53	18.0040	-0.001661897	-0.00647	-0.01807583
542.00	993.00	69.78	17.8935	-0.024602608	0.01277	0.013853035
555.50	980.40	68.82	17.8710	0.009950331	0.023948	0.011104731
550.00	957.20	68.06	18.0895	0.039875473	0.002301	0.040479219
528.50	955.00	65.36	18.1485	-0.006412696	-0.01435	-0.00868312
531.90	968.80	65.93	18.1750	-0.005811245	0.00642	0.019760159
535.00	962.60	64.64	18.1610	0.015066198	0.0193	0.017163785
527.00	944.20	63.54	18.3635	0.026924703	-0.00444	0.024212715
513.00	948.40	62.02	18.3680	-0.016433429	-0.00137	0.012493064
521.50	949.70	61.25	18.3395	0.023475712	0.019457	0.012651118

509.40	931.40	60.48	18.5775	0.038216114	0.025775	0.037568639
490.30	907.70	58.25	18.6175	0.039310458	0.021154	-0.00308536
471.40	888.70	58.43	18.6585	0.035409572	-0.00202	-0.0125852
455.00	890.50	59.17	18.5605	-0.000219756	0.009138	-0.00908485
455.10	882.40	59.71	18.7690	-0.00525971	0.001928	-0.03018786
457.50	880.70	61.54	18.6305	-0.043206036	-0.00656	-0.0660202
477.70	886.50	65.74	18.5800	-0.017225704	-0.014	-0.04141811
486.00	899.00	68.52	18.1470	-0.022381402	0.00089	0.006001628
497.00	898.20	68.11	18.5315	-0.010010094	0.007039	-0.02379338
502.00	891.90	69.75	18.4170	0.030130679	-0.00325	0.023940208
487.10	894.80	68.1	18.4920	0.019905281	0.002014	-0.01051719
477.50	893.00	68.82	18.5690	-0.013520747	-0.01302	0.005098707
484.00	904.70	68.47	18.7270	0.009132484	0.020999	0.031301228
479.60	885.90	66.36	18.6365	0.044338038	-0.01457	0.003471964
458.80	898.90	66.13	18.7530	-0.01342302	-0.03605	-0.06370648
465.00	931.90	70.48	18.7995	-0.066552621	0.010463	0.007405331
497.00	922.20	69.96	19.0055	0.006864554	0	0.014542046
493.60	922.20	68.95	19.1500	0.011410067	-0.01089	-0.02251475
488.00	932.30	70.52	19.3240	-0.032459255	-0.00833	0.029208608
504.10	940.10	68.49	19.4715	-0.032975381	-0.01813	-0.03062564
521.00	957.30	70.62	19.0135	-0.041175099	-0.0078	-0.01531682
542.90	964.80	71.71	18.9325	-0.010262139	-0.00455	0.01673385
548.50	969.20	70.52	19.1470	-0.008170722	0.008913	0.022659796
553.00	960.60	68.94	19.0165	0.010909199	0.021146	0.01948066
547.00	940.50	67.61	19.3800	0.022368989	-0.0111	-0.00236372
534.90	951.00	67.77	19.3370	-0.004104483	0.019752	0.001328904
537.10	932.40	67.68	19.0120	0.034473111	0.009375	0.022865825
518.90	923.70	66.15	19.0110	0.021229739	-0.00454	-0.02271806
508.00	927.90	67.67	18.7295	0.00790518	0.010509	0.015938373
504.00	918.20	66.6	18.8555	0.020243201	0.060148	0.024625047
493.90	864.60	64.98	19.0380	0.093085485	-0.04179	0.023512177
450.00	901.50	63.47	19.3105	-0.028479471	-0.00971	0.035113828
463.00	910.30	61.28	19.3480	-0.015005641	-0.00482	0.037068983
470.00	914.70	59.05	19.0570	-0.031416196	-0.01206	0.005944816
485.00	925.80	58.7	19.0510	-0.006166515	-0.00248	0.011651948
488.00	928.10	58.02	19.2090	-0.002047084	-0.02048	-0.01844315
489.00	947.30	59.1	19.3530	-0.030610525	0.034692	0.034076606
504.20	915.00	57.12	19.5685	0.059447707	0.017085	0.010736704
475.10	899.50	56.51	19.7225	0.041032499	-0.00189	0.003190361
456.00	901.20	56.33	19.9255	-0.008516265	0.018253	0.001421212
459.90	884.90	56.25	19.6995	0.017326895	-0.01969	-0.01043426
452.00	902.50	56.84	19.8475	-0.060103924	-0.06437	0.005645745
480.00	962.50	56.52	19.6280	-0.136132174	-0.00042	0.009421454
550.00	962.90	55.99	19.7090	0.018349139	-0.02035	-0.01136578
540.00	982.70	56.63	19.9000	-0.023788862	0.031949	0.027933777
553.00	951.80	55.07	20.1110	0.042480995	0.017701	0.035298869
530.00	935.10	53.16	20.0310	0.034552382	0.034156	-0.00187935

512.00	903.70
459.80	880.60
428.00	847.60
407.50	818.30
409.00	824.00
411.00	834.10
416.00	824.10
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406.00	811.60
393.00	827.90
407.50	845.30
418.60	849.60
429.40	840.20
426.00	845.00

53.26	19.7680	0.107533013	0.025894	0.057180503
50.3	20.2270	0.071668417	0.038195	0.001591723
50.22	20.1465	0.049082263	0.03518	0.031967116
48.64	20.3120	-0.003674223	-0.00694	-0.00061659
48.67	20.5390	-0.004878058	-0.01218	-0.03274343
50.29	20.1115	-0.012092046	0.012061	0.04058175
48.29	20.5170	-0.001201201	0.002187	-0.0043393
48.5	20.7130	0.025533302	0.013098	-0.00390987
48.69	20.7630	0.032543548	-0.01988	-0.00757037
49.06	20.9675	-0.036231321	-0.0208	-0.05858422
52.02	20.5365	-0.026874877	-0.00507	0.003659128
51.83	20.3150	-0.025473075	0.011126	0.010083467
51.31	20.3020	0.007949539	-0.0057	-0.01451123
52.06	20.1140			

E(ri)	0.000405995	0.000212	0.000772734
var(ri)	0.000813137	0.000191	0.000329603

		var_M	
covar	2.42771E-05	0.000191	9.65874E-05
beta_i	0.127211621	1	0.506116847
beta_factors		1	0.506116847

to estimate alfa, beta1, beta2, beta3

n	sum_Xi1	sum_Xi2	sum_Xi3
sum_Xi1	sum_Xi1^2	sum_Xi1Xi2	sum_Xi1Xi2
sum_Xi2	sum_Xi1Xi2	sum_Xi2^2	sum_Xi2Xi3
sum_Xi3	sum_Xi1Xi2	sum_Xi2Xi3	sum_Xi3^2

952	0.202288536	0.735643	-0.02596306
0.202288536	0.181722835	0.092108	-0.0323715
0.735642764	0.092107548	0.31435	-0.05338463
-0.025963057	-0.032371501	-0.05338	0.079771768

inv_matrix			
0.001052477	-7.08827E-05	-0.0027	-0.00148994
-7.08827E-05	6.632350074	-1.67666	1.569344533
-0.002695269	-1.676660388	4.019918	2.008929261
-0.001489938	1.569344533	2.008929	14.51653053

		252 trading days	
rf	2.5 p.a.	rf p.d.	9.92063E-05

E(ri)	0.000135794
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Dependence of factors			
	1	0.385115	-0.26885168

Covar_factors

0.00019084	9.66E-05	-3.3998E-05
9.65874E-05	0.00033	-5.6055E-05
-3.39979E-05	-5.6E-05	8.37931E-05

var_ri $bi1*betaF1+bi2*betaF2+bi3*betaF3+2*bi1$

var_ri 0.127213528

sigma_ri 0.356670055

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8.38E-05

-3.4E-05
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vrs
sum_Yi
sum_YiXi1
sum_YiXi2
sum_YiXi3

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-0.0507

		beta3	beta2	beta1	alfa	
alfa	0.000369	-0.61716	0.024186		0.005024798	0.000369407
beta1	0.005025	0.106573	0.056082		0.072035925	0.000907448
beta2	0.024186	0.041839	0.027971		#N/A	#N/A
beta3	-0.61716	13.7985	948		#N/A	#N/A
		0.032388	0.741719		#N/A	#N/A

$$l \cdot b_2 \cdot \text{covarF1,F2} + 2 \cdot b_1 \cdot b_3 \cdot \text{covF1,F3} + 2 \cdot b_2 b_3 \cdot \text{covarF2,F3}$$