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PHOTOMETRIC OBSERVATIONS OF RR LYRAE COVERING HALF A CENTURY

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Abstract

4403 photographic observations obtained in the years 1943-1950, 2611 white light observations from the years 1950-1957, altogether 31794 UBV observations collected in the years 1958-1981 and 7135 observations made in the Strömgren uvby and Hβ wide/narrow band photometric system between 1990 and 1993 are published.

INTRODUCTION

Some sixty years ago Prof. L. Detre initiated the long term monitoring of RR Lyrae (HD 182989) at Konkoly Observatory resulting in the discovery of a four-year cycle in its 40-day Blazhko-period (Detre & Szeidl, 1973).

In order to solve the still enigmatic problem of the Blazhko effect we deem it important to publish all the observations of RR Lyr available to us. We present here photographic observations from the years 1943-1950, photoelectric observations in white light made in 1950-1957, photoelectric UBV observations obtained in 1958-1981 and Strömgren uvby and Hβ observations made from 1990 through 1993.

SUMMARY OF PHOTOMETRY OF RR LYRAE

i) Photographic observations

Photographic photometry was carried out at Konkoly Observatory, Budapest with the 16 cm astrograph using Eastman 40 plates with 30 s exposure time from 16 May 1943 (JD 2430861) through 21 June 1950 (JD 2433454). The comparison stars and their magnitudes used in measuring these plates are given in Detre's (1943) paper. During 96 nights about 8800 observations were obtained and by pairs averaged. Table 1 presents 4403 photographic observations. The time of observations are converted to HJD.

ii) Early photoelectric observations without filter (in white light)

The photoelectric photometry was commenced at Konkoly Observatory in 1950. At first the photometry was conducted with the observatory's 60 cm telescope without using any filter. In 1950-1953 an RCA 931A, from 1954 an RCA 1P21 multiplier tube was employed in the photometer. Although these observations are on an indefinite photometric system they well supplement Walraven's (1949) photoelectric observations. The observations published here were made between 12 July 1950 (JD 2433475) and 30 October 1957 (JD 2436142). The comparison star used was HD 183125. (The same one was used by Walraven, too.) In Table 2, 2611 white light observations obtained during 45 nights are given.

iii) UBV photometry

The UBV photoelectric observations were carried out using the 60 cm Newton telescope at Budapest from 26 July 1958 (JD 2436411) through 26 September 1981

(JD 2444874). Since RR Lyrae is fairly bright the mirror of the telescope usually had to be diaphragmed to 35–50 cm depending on the sky transparency. The mirror of the telescope was first aluminized in 1963. Before 1963 an RCA 1P21 multiplier was used with Schott filters UG1 in U, BG12+GG13 in B and GG11 in V; and thereafter an EMI 9052B tube with the same filter combination as in the previous years.

The comparison star used to the UBV observations was HD 183125 (A2). Tie-in observations made on several nights yielded for this star: $V = 7.999 \pm .007$, $B-V = +0.289 \pm .006$, $U-B = +0.077 \pm .015$. The constancy of the comparison star was checked against the star HD 182487 ($V = 7.009, B-V = +0.020, U-B = -0.119$, Preston et al., 1965).

The observations of the variable were reduced in the usual way. The UT times have been converted to HJD and the differential magnitudes have been corrected for atmospheric extinction. (These corrections were mostly negligible since the comparison is very close to the variable, only about half a degree away.) The observations have been transformed into the UBV system in the traditional way (see e.g. Hardie, 1962).

In Tables 3 and 4 we present 14977 differential V and 15331 differential B magnitudes collected on 446 nights. In Table 5, 1486 differential U magnitudes obtained on 38 nights are given. The differential magnitudes are given in the sense variable minus comparison.

iv) Strömgren and Hβ photometry

Differential photoelectric photometry of RR Lyr was conducted from 10 September 1990 through 22 June 1993 with the 0.8 m Automatic Photoelectric Telescopes (APT) at Fairborn Observatory, Mt. Hopkins, Arizona. These APTs are nearly identical and equipped with filter sets closely matched to the Strömgren uvby and H beta wide/narrow band photometric systems. The T5 APT was used for the observations made up to October 1991. Intensive photometry of RR Lyr was obtained during 1 May - 22 June UT 1993 using chiefly the T6 APT. The characteristics of the T6 APT (later acquired by the University of Vienna and renamed 'Wolfgang') is given by Strassmeier et al. (1997). The T5 APT is similar and has been operated by the Four College Consortium and is known as the FCC 0.8 m APT.

The comparison star was HD 182487 ($V = 7.01, B-V = +0.02$; A0 (V)) and HD 182694 (=HR 7382; $V = 5.84, B-V = +0.92$; G2 IIIa) served as the check star. The usual sky-comparison-variable/check-comparison-sky observing sequence was used and integration times of 10 s were used. Observations were obtained on 63 nights and given in the sense of differential magnitude, Δmag variable minus comparison star (V−C).

The observations were reduced in the usual way with UT times converted to HJD and the differential magnitudes corrected for atmospheric extinction. Because of the close angular proximity of the variable, comparison and check stars, the differential extinction corrections were always very small.

In Tables 6, 7, 8, 9, 10 and 11, 1199 Δy, 1196 Δb, 1176 Δv, 1166 Δu, 1199 Hβ narrow band and 1199 Hβ wide band observations are given, respectively.

Table 1. Photographic observations

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0.4196 +8.020
0.4217 +8.050
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0.4259 +8.020
0.4280 +8.010
0.4301 +7.960

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0.3856 +7.190
0.3877 +7.190

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0.2582 +7.510
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0.2623 +7.500
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0.2665 +7.470
0.2686 +7.410
0.2706 +7.420
0.2727 +7.360
0.2748 +7.350
0.2769 +7.340

Table 1.

0.2790 +7.300
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0.3680 +8.010
0.3701 +7.990

2432855 +
0.3051 +8.000
0.3071 +7.950
0.3092 +7.980
0.3113 +7.870
0.3134 +7.830
0.3155 +7.780
0.3176 +7.800
0.3196 +7.750
0.3217 +7.680
0.3238 +7.600
0.3259 +7.540
0.3280 +7.550
0.3301 +7.510
0.3321 +7.510
0.3363 +7.460
0.3384 +7.450
0.3405 +7.450
0.3426 +7.380
0.3446 +7.370
0.3467 +7.350
0.3488 +7.330
0.3509 +7.280
0.3571 +7.210
0.3592 +7.120
0.3613 +7.090
0.3634 +7.090
0.3655 +7.100
0.3676 +7.100
0.3696 +7.100

2432876 +
0.2472 +7.880
0.2493 +7.890
0.2514 +7.880
0.2535 +7.900
0.2556 +7.910
0.2577 +7.910
0.2597 +7.900
0.2618 +7.910
0.2639 +7.890
0.2660 +7.890
0.2681 +7.890
0.2701 +7.880
0.2722 +7.920
0.2743 +7.920
0.2764 +7.890
0.2785 +7.850
0.2806 +7.850
0.2826 +7.850
0.2847 +7.870
0.2868 +7.900
0.2889 +7.820
0.2910 +7.820
0.2945 +7.840
0.2965 +7.810
0.2986 +7.840
0.3007 +7.820
0.3028 +7.790
0.3049 +7.780
0.3070 +7.690
0.3090 +7.650
0.3111 +7.630
0.3132 +7.560
0.3153 +7.520
0.3174 +7.460
0.3195 +7.460
0.3215 +7.450
0.3236 +7.420
0.3257 +7.370
0.3278 +7.310
0.3326 +7.300
0.3347 +7.290
0.3368 +7.220
0.3389 +7.190
0.3410 +7.190
0.3431 +7.150
0.3451 +7.110
0.3472 +7.130
0.3493 +7.110
0.3514 +7.130
0.3535 +7.120
0.3556 +7.090
0.3576 +7.070
0.3597 +7.040
0.3618 +7.030
0.3639 +7.010

2432880 +
0.2367 +7.910
0.2388 +7.900
0.2409 +7.900
0.2430 +7.890
0.2451 +7.920
0.2472 +7.890
0.2493 +7.900
0.2514 +7.910
0.2535 +7.890
0.2556 +7.880
0.2577 +7.860
0.2597 +7.870
0.2618 +7.860
0.2639 +7.840
0.2660 +7.760
0.2681 +7.770
0.2701 +7.750
0.2722 +7.660
0.2743 +7.620
0.2764 +7.620
0.2785 +7.580
0.2806 +7.600
0.2826 +7.570
0.2875 +7.340
0.2896 +7.270
0.2917 +7.240
0.2938 +7.220
0.2958 +7.220
0.2979 +7.190
0.3000 +7.140
0.3021 +7.030
0.3042 +7.030
0.3063 +6.990
0.3083 +6.940
0.3104 +6.940
0.3125 +6.960
0.3146 +6.940
0.3167 +6.950
0.3188 +6.900

2432913 +
0.1850 +7.490
0.1871 +7.400
0.1892 +7.360
0.1913 +7.350
0.1934 +7.330
0.1954 +7.310
0.1975 +7.310
0.1996 +7.320
0.2017 +7.300
0.2038 +7.300
0.2059 +7.270
0.2079 +7.300
0.2100 +7.270
0.2121 +7.310
0.2142 +7.280
0.2163 +7.280
0.2184 +7.300
0.2204 +7.310
0.2225 +7.300
0.2246 +7.330
0.2267 +7.320
0.2288 +7.350

2433076 +
0.3665 +7.910
0.3686 +7.960
0.3706 +7.900
0.3727 +7.800
0.3748 +7.840
0.3769 +7.800
0.3790 +7.790
0.3818 +7.760
0.3832 +7.680
0.3852 +7.580
0.3873 +7.570
0.3894 +7.570
0.3915 +7.560
0.3936 +7.550
0.3956 +7.530
0.3977 +7.460
0.3998 +7.390
0.4019 +7.440
0.4040 +7.390
0.4061 +7.390
0.4081 +7.360
0.4102 +7.350
0.4123 +7.360
0.4144 +7.360
0.4165 +7.340
0.4186 +7.340
0.4206 +7.340
0.4227 +7.270
0.4248 +7.230
0.4269 +7.170
0.4290 +7.130
0.4311 +7.110
0.4331 +7.110
0.4352 +7.100
0.4373 +7.050
0.4394 +7.010
0.4415 +6.980
0.4436 +6.980
0.4456 +6.950
0.4477 +6.900
0.4498 +6.990
0.4519 +7.010
0.4540 +6.990
0.4561 +7.010
0.4582 +7.030
0.4602 +7.010
0.4623 +7.050
0.4665 +7.080
0.4686 +7.120

2433084 +
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0.3613 +7.200
0.3634 +7.170
0.3655 +7.170
0.3676 +7.110
0.3696 +7.090
0.3717 +7.090
0.3738 +7.090
0.3759 +7.090
0.3780 +7.080
0.3801 +7.060
0.3821 +7.080
0.3842 +7.090
0.3863 +7.070
0.3884 +7.080
0.3905 +7.070
0.3926 +7.070
0.3946 +7.090
0.3967 +7.100
0.3988 +7.100
0.4009 +7.120
0.4030 +7.100
0.4051 +7.090
0.4071 +7.110
0.4092 +7.170
0.4113 +7.180
0.4134 +7.180

2433097 +
0.3691 +7.250
0.3712 +7.180
0.3733 +7.190
0.3754 +7.150
0.3775 +7.160
0.3796 +7.150
0.3816 +7.080
0.3837 +7.030
0.3858 +7.060
0.3879 +7.040
0.3900 +7.030
0.3921 +6.980
0.3941 +7.010
0.3962 +6.960
0.3983 +7.000
0.4004 +7.000
0.4025 +6.970
0.4046 +6.990
0.4066 +7.010
0.4087 +6.970
0.4108 +6.970
0.4129 +6.960
0.4150 +6.980
0.4171 +7.030
0.4191 +7.060
0.4212 +7.080
0.4233 +7.120
0.4254 +7.120
0.4275 +7.090

2433106 +
0.3880 +7.900
0.3901 +7.940
0.3922 +7.980
0.3943 +7.970
0.3963 +7.910
0.3984 +7.890
0.4005 +7.880
0.4026 +7.870
0.4047 +7.850
0.4068 +7.810
0.4088 +7.770
0.4109 +7.750
0.4130 +7.770
0.4151 +7.760
0.4172 +7.650
0.4193 +7.560
0.4213 +7.550

0.4234 +7.540
0.4276 +7.520
0.4297 +7.520
0.4318 +7.420
0.4338 +7.370
0.4359 +7.390
0.4380 +7.380
0.4401 +7.280
0.4422 +7.260
0.4443 +7.240
0.4463 +7.220
0.4484 +7.210
0.4505 +7.170
0.4526 +7.160
0.4547 +7.190
0.4568 +7.240
0.4588 +7.230
0.4609 +7.230
0.4630 +7.180
0.4651 +7.150
0.4672 +7.170
0.4693 +7.150
0.4713 +7.110
0.4734 +7.110
0.4755 +7.110
0.4776 +7.160
0.4797 +7.210

2433110 +
0.3799 +7.730
0.3819 +7.670
0.3840 +7.650
0.3861 +7.670
0.3882 +7.600
0.3903 +7.600
0.3924 +7.500
0.3945 +7.490
0.3965 +7.420
0.3986 +7.420
0.4007 +7.350
0.4028 +7.360
0.4049 +7.300
0.4060 +7.320
0.4090 +7.300
0.4111 +7.310
0.4132 +7.300
0.4153 +7.310
0.4174 +7.300
0.4192 +7.300
0.4213 +7.280
0.4234 +7.210
0.4255 +7.190
0.4276 +7.220
0.4297 +7.200

0.4317 +7.210
0.4338 +7.240
0.4359 +7.220
0.4380 +7.180
0.4401 +7.190
0.4422 +7.200
0.4443 +7.190
0.4464 +7.200
0.4485 +7.200
0.4506 +7.180
0.4527 +7.190

2433114 +
0.3675 +7.510
0.3695 +7.450
0.3716 +7.400
0.3737 +7.360
0.3758 +7.350
0.3779 +7.320
0.3800 +7.340
0.3821 +7.330
0.3841 +7.310
0.3862 +7.260
0.3883 +7.260
0.3904 +7.250
0.3925 +7.240
0.3946 +7.230
0.3966 +7.180
0.3986 +7.150
0.4007 +7.170
0.4028 +7.130
0.4049 +7.140
0.4070 +7.140
0.4091 +7.160
0.4112 +7.140
0.4133 +7.170
0.4154 +7.170
0.4174 +7.170
0.4195 +7.150
0.4216 +7.150
0.4237 +7.100
0.4258 +7.100

2433131 +
0.3598 +7.810
0.3619 +7.810
0.3640 +7.790
0.3661 +7.790
0.3682 +7.720
0.3702 +7.700
0.3723 +7.610
0.3744 +7.600
0.3765 +7.560
0.3786 +7.420

0.3807 +7.480
0.3827 +7.420
0.3848 +7.330
0.3869 +7.270
0.3890 +7.260
0.3911 +7.250
0.3925 +7.140
0.3945 +7.080
0.3987 +7.000
0.4008 +6.980
0.4029 +6.980
0.4050 +6.980
0.4070 +6.970
0.4091 +6.970
0.4112 +6.930
0.4133 +6.920
0.4154 +6.950
0.4175 +6.980
0.4195 +6.950
0.4216 +6.970
0.4237 +6.990
0.4258 +7.010
0.4279 +6.980
0.4300 +6.980
0.4320 +7.000
0.4341 +7.020
0.4362 +7.060
0.4383 +7.080
0.4404 +7.120

2433156 +
0.3369 +7.500
0.3400 +7.450
0.3421 +7.380
0.3442 +7.360
0.3462 +7.380
0.3483 +7.350
0.3504 +7.300
0.3525 +7.320
0.3546 +7.280
0.3567 +7.300
0.3587 +7.220
0.3608 +7.150
0.3629 +7.200
0.3650 +7.160
0.3671 +7.180
0.3692 +7.180
0.3713 +7.110
0.3733 +7.130
0.3754 +7.140
0.3775 +7.140
0.3796 +7.190
0.3817 +7.200
0.3837 +7.180

0.3858 +7.200
0.3879 +7.220
0.3900 +7.200
0.3921 +7.170
0.3942 +7.200
0.3962 +7.220
0.3983 +7.200
0.4004 +7.230

2433186 +
0.3281 +7.820
0.3302 +7.780
0.3322 +7.780
0.3343 +7.690
0.3364 +7.640
0.3385 +7.610
0.3406 +7.510
0.3427 +7.440
0.3447 +7.450
0.3468 +7.370
0.3489 +7.370
0.3510 +7.350
0.3531 +7.320
0.3552 +7.220
0.3572 +7.210
0.3593 +7.150
0.3614 +7.150
0.3635 +7.150
0.3656 +7.140
0.3677 +7.100
0.3697 +7.100
0.3718 +7.090
0.3739 +7.110
0.3760 +7.100
0.3781 +7.050
0.3802 +7.090
0.3822 +7.090
0.3843 +7.060
0.3864 +7.080
0.3885 +7.080
0.3906 +7.090

2433445 +
0.3562 +7.960
0.3582 +7.980
0.3603 +8.010
0.3624 +7.940
0.3645 +7.930
0.3666 +7.880
0.3687 +7.810
0.3707 +7.740
0.3728 +7.740
0.3749 +7.700
0.3770 +7.650

0.3791 +7.560
0.3812 +7.520
0.3832 +7.550
0.3853 +7.520
0.3874 +7.480
0.3895 +7.480
0.3916 +7.480
0.3937 +7.500
0.3957 +7.480
0.3979 +7.440
0.4000 +7.410
0.4021 +7.390
0.4042 +7.280
0.4063 +7.320
0.4083 +7.270
0.4125 +7.270
0.4146 +7.220
0.4167 +7.250
0.4188 +7.190
0.4208 +7.110
0.4229 +7.110
0.4250 +7.160
0.4271 +7.130
0.4292 +7.130
0.4313 +7.050
0.4333 +7.090
0.4354 +7.060
0.4375 +7.090
0.4396 +7.030

2433454 +
0.4773 +7.140
0.4794 +7.130
0.4815 +7.150
0.4835 +7.110
0.4856 +7.090
0.4877 +7.120
0.4898 +7.100
0.4919 +7.080
0.4940 +7.020
0.4960 +7.010
0.4981 +7.030
0.5002 +7.020
0.5023 +7.000
0.5044 +7.040
0.5092 +7.000
0.5113 +7.050
0.5134 +7.030
0.5155 +7.080
0.5176 +7.060
0.5196 +7.070
0.5217 +7.150
0.5238 +7.180

Table 2. Photoelectric observations without filter

2433475 +
0.3935 −0.012
0.3941 −0.012
0.3954 −0.021
0.3962 −0.009
0.3968 −0.045
0.3976 −0.043
0.3983 −0.088
0.4050 −0.208
0.4058 −0.215
0.4066 −0.217
0.4076 −0.251
0.4085 −0.295
0.4096 −0.302
0.4110 −0.340
0.4160 −0.433
0.4171 −0.479
0.4181 −0.475
0.4189 −0.491
0.4199 −0.479
0.4207 −0.498
0.4214 −0.507
0.4250 −0.543
0.4259 −0.543
0.4266 −0.556
0.4274 −0.573
0.4281 −0.578
0.4288 −0.567
0.4296 −0.598
0.4303 −0.618
0.4313 −0.618
0.4322 −0.632
0.4330 −0.619
0.4350 −0.657
0.4371 −0.648
0.4379 −0.664
0.4417 −0.692
0.4425 −0.709
0.4436 −0.723
0.4444 −0.712
0.4452 −0.728
0.4460 −0.738
0.4468 −0.740
0.4478 −0.747
0.4575 −0.780
0.4583 −0.773
0.4590 −0.781
0.4610 −0.778
0.4621 −0.787
0.4631 −0.779
0.4640 −0.759
0.4647 −0.747
0.4655 −0.778
0.4665 −0.748
0.4677 −0.755
0.4687 −0.748
0.4747 −0.698
0.4754 −0.704
0.4764 −0.701
0.4773 −0.707
0.4781 −0.688
0.4791 −0.688
0.4801 −0.653
0.4810 −0.682
0.4823 −0.672
0.4831 −0.657
0.4840 −0.682
0.4848 −0.656

2433480 +
0.4873 +0.086
0.4890 +0.111
0.4905 +0.092
0.4921 +0.097
0.4940 +0.072
0.4949 +0.091
0.4969 +0.058
0.5039 −0.017
0.5044 −0.067
0.5073 −0.119
0.5092 −0.149
0.5147 −0.268
0.5160 −0.334
0.5177 −0.351
0.5204 −0.384
0.5229 −0.396
0.5244 −0.417
0.5303 −0.466
0.5317 −0.486
0.5324 −0.502
0.5340 −0.513
0.5356 −0.508
0.5418 −0.541
0.5425 −0.558
0.5476 −0.628
0.5484 −0.637
0.5526 −0.665
0.5533 −0.695

2433484 +
0.3922 +0.079
0.3960 +0.112
0.3992 +0.126
0.4005 +0.148
0.4145 +0.210
0.4162 +0.200
0.4173 +0.192
0.4288 +0.249
0.4324 +0.222
0.4383 +0.179
0.4400 +0.212
0.4413 +0.215
0.4426 +0.207
0.4434 +0.224
0.4447 +0.208
0.4458 +0.216
0.4512 +0.217
0.4524 +0.236
0.4543 +0.250
0.4586 +0.218
0.4596 +0.237
0.4640 +0.217
0.4652 +0.155
0.4663 +0.166
0.4733 +0.120
0.4747 +0.048
0.4753 −0.006
0.4768 −0.013
0.4818 −0.157
0.4821 −0.171
0.4838 −0.230
0.4883 −0.308
0.4895 −0.357
0.4908 −0.393
0.4959 −0.407
0.4970 −0.451
0.4987 −0.423
0.4999 −0.466
0.5004 −0.443
0.5053 −0.456
0.5063 −0.471
0.5075 −0.441
0.5088 −0.490
0.5157 −0.481
0.5171 −0.511
0.5183 −0.505
0.5193 −0.501
0.5199 −0.512
0.5368 −0.601
0.5380 −0.608
0.5396 −0.629
0.5410 −0.627
0.5470 −0.621
0.5481 −0.641
0.5493 −0.629
0.5500 −0.641
0.5553 −0.632
0.5560 −0.647
0.5580 −0.627
0.5629 −0.634
0.5636 −0.621

2433487 +
0.3818 −0.734
0.3837 −0.736
0.3845 −0.716
0.3849 −0.727
0.3861 −0.744
0.3872 −0.731
0.3883 −0.738
0.3940 −0.744
0.3949 −0.713
0.3967 −0.737
0.3973 −0.729
0.4035 −0.706
0.4047 −0.706
0.4057 −0.703
0.4070 −0.682
0.4118 −0.638
0.4126 −0.639
0.4147 −0.630
0.4153 −0.619
0.4170 −0.622
0.4181 −0.623
0.4223 −0.609

2433488 +
0.3815 +0.184
0.3830 +0.177
0.3837 +0.189
0.3842 +0.184
0.3871 +0.197
0.3924 +0.210
0.3938 +0.195
0.3951 +0.191
0.3966 +0.193
0.3977 +0.196
0.3987 +0.194
0.4039 +0.218
0.4053 +0.208
0.4091 +0.223
0.4116 +0.214
0.4133 +0.221
0.4191 +0.231
0.4208 +0.226
0.4226 +0.190
0.4239 +0.216
0.4254 +0.216
0.4262 +0.204
0.4270 +0.194
0.4329 +0.190
0.4348 +0.176
0.4362 +0.155
0.4369 +0.134
0.4390 +0.109
0.4398 +0.104
0.4413 +0.086
0.4421 +0.078
0.4480 −0.038
0.4487 −0.070
0.4643 −0.241
0.4660 −0.286
0.4678 −0.317
0.4686 −0.355
0.4713 −0.384
0.4722 −0.394
0.4737 −0.387
0.4799 −0.481
0.4817 −0.486
0.4844 −0.516
0.4862 −0.553
0.4877 −0.604
0.4896 −0.624
0.4904 −0.646
0.4917 −0.657
0.4979 −0.709
0.4993 −0.723
0.5026 −0.746
0.5045 −0.774
0.5053 −0.765
0.5070 −0.781
0.5083 −0.793
0.5101 −0.784
0.5166 −0.808
0.5175 −0.804
0.5194 −0.806
0.5345 −0.763
0.5355 −0.756
0.5372 −0.740
0.5394 −0.719
0.5408 −0.705
0.5418 −0.694
0.5437 −0.686
0.5444 −0.688
0.5463 −0.680
0.5522 −0.655
0.5540 −0.606
0.5552 −0.614

2433505 +
0.4280 +0.187
0.4296 +0.195
0.4303 +0.194
0.4363 +0.126
0.4385 +0.073
0.4400 +0.038
0.4413 +0.050
0.4423 +0.031
0.4427 +0.025
0.4475 −0.085
0.4480 −0.114
0.4494 −0.145
0.4507 −0.183
0.4513 −0.189
0.4559 −0.309
0.4569 −0.338
0.4586 −0.378
0.4598 −0.413
0.4609 −0.432
0.4620 −0.445
0.4633 −0.478
0.4644 −0.505
0.4687 −0.592
0.4700 −0.615
0.4712 −0.653
0.4724 −0.680
0.4731 −0.681
0.4748 −0.730
0.4761 −0.745
0.4827 −0.789
0.4911 −0.809
0.4925 −0.812
0.4939 −0.811
0.5002 −0.826
0.5014 −0.823
0.5026 −0.800
0.5040 −0.806
0.5096 −0.792
0.5111 −0.776
0.5169 −0.710

0.5184 −0.723

2433802 +
0.4002 +0.162
0.4007 +0.162
0.4021 +0.158
0.4026 +0.155
0.4032 +0.157
0.4036 +0.163
0.4042 +0.162
0.4056 +0.195
0.4236 +0.195
0.4240 +0.200
0.4244 +0.199
0.4250 +0.198
0.4263 +0.157
0.4268 +0.150
0.4311 +0.130
0.4320 +0.128
0.4326 +0.121
0.4331 +0.113
0.4336 +0.098
0.4341 +0.094
0.4347 +0.080
0.4351 +0.074
0.4357 +0.064
0.4362 +0.050
0.4368 +0.041
0.4372 +0.030
0.4433 −0.071
0.4438 −0.078
0.4443 −0.095
0.4457 −0.131
0.4463 −0.145
0.4480 −0.186
0.4485 −0.192
0.4490 −0.205
0.4495 −0.215
0.4501 −0.230
0.4505 −0.237
0.4510 −0.246
0.4514 −0.260
0.4560 −0.361
0.4571 −0.403
0.4577 −0.419
0.4581 −0.424
0.4585 −0.429
0.4590 −0.438
0.4594 −0.434
0.4599 −0.436
0.4604 −0.439
0.4608 −0.440
0.4613 −0.452
0.4618 −0.463
0.4621 −0.470
0.4627 −0.481
0.4632 −0.486
0.4637 −0.487
0.4641 −0.493
0.4647 −0.495
0.4651 −0.483
0.4657 −0.478

0.4661 −0.489
0.4667 −0.498
0.4742 −0.625
0.4747 −0.639
0.4752 −0.633
0.4757 −0.645
0.4898 −0.685
0.4903 −0.691
0.4908 −0.672
0.4964 −0.694
0.4969 −0.692
0.4974 −0.681
0.4987 −0.708
0.5018 −0.696
0.5028 −0.699
0.5076 −0.667
0.5081 −0.665
0.5085 −0.678
0.5090 −0.680
0.5095 −0.676
0.5107 −0.660
0.5113 −0.659
0.5206 −0.615
0.5210 −0.617
0.5216 −0.618
0.5222 −0.624
0.5227 −0.620
0.5231 −0.614
0.5236 −0.615
0.5301 −0.586
0.5307 −0.581
0.5312 −0.578
0.5318 −0.582
0.5325 −0.588
0.5330 −0.588
0.5336 −0.583
0.5341 −0.587
0.5347 −0.589
0.5352 −0.597
0.5357 −0.581
0.5363 −0.567

2434176 +
0.5009 +0.210
0.5018 +0.224
0.5034 +0.214
0.5047 +0.232
0.5054 +0.226
0.5063 +0.216
0.5069 +0.208
0.5121 +0.208
0.5132 +0.222
0.5144 +0.188
0.5157 +0.196
0.5171 +0.214
0.5183 +0.228
0.5214 +0.173
0.5267 +0.119
0.5278 +0.100
0.5296 +0.097
0.5302 +0.076
0.5308 +0.075

0.5317 +0.067
0.5323 +0.054
0.5364 +0.009
0.5374 −0.041
0.5380 −0.040

2434272 +
0.3717 −0.684
0.3740 −0.711
0.3754 −0.732
0.3764 −0.749
0.3777 −0.762
0.3798 −0.776
0.3803 −0.798
0.3812 −0.818
0.3916 −0.922
0.3933 −0.937
0.3940 −0.947
0.3950 −0.934
0.3978 −0.939
0.4004 −0.907
0.4072 −0.894
0.4078 −0.901
0.4094 −0.887
0.4109 −0.880
0.4123 −0.877
0.4138 −0.864
0.4217 −0.792
0.4227 −0.802
0.4240 −0.803

2434276 +
0.3215 −0.508
0.3226 −0.530
0.3235 −0.534
0.3247 −0.539
0.3257 −0.566
0.3268 −0.592
0.3277 −0.606
0.3287 −0.620
0.3292 −0.633
0.3305 −0.664
0.3315 −0.677
0.3324 −0.695
0.3335 −0.725
0.3349 −0.763
0.3404 −0.872
0.3419 −0.914
0.3424 −0.926
0.3436 −0.951
0.3442 −0.947
0.3457 −0.952
0.3462 −0.948
0.3471 −0.944
0.3484 −0.970
0.3490 −0.958
0.3503 −0.948
0.3516 −0.966
0.3527 −0.967
0.3644 −0.947
0.3650 −0.951
0.3665 −0.912

0.3694 −0.909
0.3744 −0.895
0.3750 −0.874
0.3763 −0.857
0.3773 −0.872
0.3778 −0.864
0.3793 −0.859
0.3816 −0.863
0.3826 −0.838
0.3836 −0.852

2434280 +
0.3034 −0.942
0.3042 −0.934
0.3053 −0.952
0.3070 −0.959
0.3092 −0.993
0.3106 −0.998
0.3130 −1.003
0.3138 −1.000
0.3151 −0.994
0.3227 −1.008
0.3244 −0.983
0.3255 −0.969
0.3276 −0.959
0.3285 −0.937
0.3293 −0.937
0.3310 −0.927
0.3323 −0.913
0.3340 −0.907
0.3359 −0.892
0.3374 −0.869
0.3393 −0.860
0.3409 −0.825
0.3426 −0.817

2434293 +
0.2699 +0.169
0.2708 +0.168
0.2719 +0.181
0.2725 +0.171
0.2739 +0.181
0.2797 +0.132
0.2807 +0.130
0.2816 +0.134
0.2825 +0.125
0.2841 +0.091
0.2851 +0.106
0.2855 +0.108
0.2906 −0.005
0.2918 −0.024
0.2928 −0.029
0.2937 −0.040
0.2946 −0.100
0.2956 −0.105
0.2965 −0.111
0.2974 −0.136
0.2983 −0.185
0.2995 −0.190
0.3005 −0.234
0.3016 −0.255
0.3026 −0.281

0.3072 −0.376
0.3083 −0.430
0.3094 −0.462
0.3105 −0.484
0.3120 −0.481
0.3130 −0.507
0.3140 −0.519
0.3151 −0.532
0.3162 −0.539
0.3172 −0.580
0.3182 −0.593
0.3192 −0.612
0.3202 −0.617
0.3212 −0.611
0.3269 −0.708
0.3282 −0.706
0.3293 −0.721
0.3303 −0.719
0.3313 −0.729
0.3323 −0.732
0.3334 −0.749
0.3346 −0.752
0.3356 −0.757
0.3368 −0.764
0.3378 −0.753
0.3388 −0.775
0.3400 −0.777
0.3411 −0.779
0.3421 −0.781
0.3432 −0.787
0.3438 −0.778
0.3496 −0.788
0.3513 −0.783
0.3524 −0.758
0.3536 −0.768
0.3548 −0.766
0.3561 −0.762
0.3570 −0.773
0.3583 −0.770
0.3589 −0.765
0.3644 −0.721
0.3655 −0.712
0.3665 −0.726
0.3677 −0.712
0.3688 −0.706
0.3700 −0.697

2434565 +
0.4054 −0.769
0.4070 −0.790
0.4085 −0.786
0.4094 −0.819
0.4112 −0.830
0.4174 −0.881
0.4203 −0.882
0.4218 −0.874
0.4234 −0.892
0.4248 −0.891
0.4255 −0.901
0.4318 −0.905
0.4333 −0.898
0.4346 −0.884

0.4360 −0.862
0.4374 −0.872
0.4388 −0.878
0.4394 −0.852
0.4489 −0.840
0.4502 −0.842
0.4517 −0.827

2434566 +
0.4962 +0.091
0.4974 +0.035
0.4983 +0.021
0.4990 +0.043
0.5002 −0.007
0.5016 −0.031
0.5021 −0.041
0.5060 −0.169
0.5073 −0.208
0.5082 −0.221
0.5096 −0.269
0.5109 −0.259
0.5123 −0.280
0.5190 −0.439
0.5202 −0.479
0.5220 −0.536
0.5235 −0.557
0.5247 −0.581
0.5293 −0.620
0.5309 −0.638
0.5316 −0.653
0.5325 −0.653
0.5336 −0.710
0.5345 −0.697
0.5390 −0.768
0.5400 −0.774
0.5411 −0.773
0.5421 −0.793
0.5430 −0.798

2434574 +
0.3854 +0.173
0.3859 +0.155
0.3869 +0.141
0.3880 +0.141
0.3890 +0.158
0.3901 +0.157
0.3960 +0.174
0.3970 +0.159
0.3980 +0.184
0.3990 +0.173
0.3998 +0.176
0.4006 +0.159
0.4012 +0.158
0.4059 +0.173
0.4068 +0.156
0.4077 +0.167
0.4085 +0.182
0.4093 +0.162
0.4100 +0.164
0.4110 +0.166
0.4304 −0.092
0.4312 −0.092

0.4321 −0.144
0.4331 −0.167
0.4371 −0.221
0.4379 −0.247
0.4387 −0.251
0.4397 −0.269
0.4408 −0.276
0.4418 −0.325
0.4425 −0.313
0.4658 −0.769
0.4672 −0.815
0.4686 −0.810
0.4697 −0.847
0.4710 −0.858
0.4727 −0.874

2434579 +
0.4937 +0.179
0.4940 +0.162
0.4955 +0.163
0.4994 +0.171
0.5019 +0.199
0.5026 +0.171
0.5034 +0.183
0.5085 +0.183
0.5090 +0.161
0.5101 +0.163
0.5109 +0.168
0.5117 +0.178
0.5124 +0.159
0.5175 +0.159
0.5222 +0.113
0.5235 +0.109
0.5243 +0.109
0.5273 +0.065
0.5280 +0.037
0.5287 +0.019
0.5294 +0.026
0.5303 +0.017
0.5310 +0.016
0.5414 −0.269
0.5440 −0.308
0.5454 −0.372
0.5460 −0.387
0.5466 −0.422
0.5474 −0.399
0.5480 −0.454
0.5487 −0.455
0.5513 −0.527

2434583 +
0.4616 +0.196
0.4622 +0.184
0.4629 +0.196
0.4635 +0.176
0.4645 +0.199
0.4650 +0.185
0.4655 +0.177
0.4692 +0.178
0.4698 +0.189
0.4704 +0.189
0.4709 +0.172

0.4717 +0.183
0.4723 +0.198
0.4729 +0.189
0.4760 +0.178
0.4767 +0.172
0.4774 +0.189
0.4781 +0.183
0.4789 +0.175
0.4795 +0.178
0.4802 +0.172
0.4831 +0.184
0.4837 +0.192
0.4844 +0.167
0.4852 +0.183
0.4859 +0.181
0.4867 +0.161
0.4873 +0.166
0.4910 +0.129
0.4916 +0.138
0.4924 +0.121
0.4929 +0.116
0.4936 +0.108
0.4943 +0.101
0.4949 +0.082
0.4980 +0.043
0.4987 +0.035
0.4990 +0.005
0.5004 −0.007
0.5011 −0.015
0.5018 −0.020
0.5025 −0.051
0.5056 −0.115
0.5062 −0.136
0.5068 −0.142
0.5076 −0.171
0.5082 −0.182
0.5088 −0.206
0.5091 −0.203
0.5122 −0.281
0.5128 −0.292
0.5133 −0.299
0.5140 −0.324
0.5146 −0.321
0.5152 −0.347
0.5194 −0.468
0.5202 −0.477
0.5207 −0.481
0.5214 −0.504
0.5221 −0.515
0.5225 −0.519
0.5254 −0.539
0.5260 −0.548
0.5266 −0.570
0.5273 −0.560
0.5282 −0.584
0.5288 −0.572
0.5292 −0.580
0.5322 −0.594
0.5329 −0.611
0.5334 −0.610
0.5341 −0.623
0.5349 −0.630

0.5355 −0.627
0.5387 −0.643
0.5394 −0.654
0.5399 −0.652
0.5408 −0.681
0.5415 −0.664
0.5421 −0.686
0.5464 −0.691
0.5470 −0.696
0.5476 −0.702
0.5482 −0.702
0.5488 −0.701
0.5496 −0.704
0.5500 −0.713
0.5530 −0.741
0.5536 −0.745
0.5543 −0.738
0.5549 −0.751
0.5556 −0.748
0.5562 −0.742
0.5595 −0.760
0.5601 −0.758
0.5608 −0.788
0.5614 −0,770
0.5620 −0.757
0.5627 −0.779
0.5655 −0.785
0.5661 −0.784
0.5668 −0.798
0.5691 −0.779
0.5697 −0.785
0.5703 −0.783
0.5710 −0.782
0.5715 −0.791
0.5722 −0.782
0.5751 −0.784
0.5757 −0.774
0.5780 −0.778
0.5786 −0.778

2434590 +
0.3263 −0.387
0.3272 −0.409
0.3280 −0.405
0.3288 −0.427
0.3295 −0.441
0.3325 −0.474
0.3331 −0.498
0.3340 −0.481
0.3342 −0.499
0.3373 −0.539
0.3379 −0.541
0.3387 −0.551
0.3394 −0.557
0.3401 −0.548
0.3434 −0.572
0.3439 −0.563
0.3445 −0.561
0.3454 −0.574
0.3460 −0.578
0.3468 −0.584
0.3498 −0.618

0.3503 −0.637
0.3510 −0.624
0.3517 −0.641
0.3525 −0.642
0.3551 −0.663
0.3558 −0.675
0.3563 −0.715
0.3570 −0.709
0.3577 −0.719
0.3583 −0.729
0.3612 −0.745
0.3618 −0.757
0.3625 −0.769
0.3633 −0.766
0.3640 −0.789
0.3646 −0.785
0.3679 −0.797
0.3685 −0.805
0.3691 −0.789
0.3698 −0.797
0.3705 −0.809
0.3712 −0.795
0.3742 −0.803
0.3748 −0.810
0.3763 −0.824
0.3769 −0.800
0.3775 −0.801
0.3780 −0.803
0.3812 −0.827
0.3818 −0.825
0.3824 −0.821
0.3830 −0.809
0.3832 −0.822
0.3845 −0.820
0.3851 −0.799
0.3881 −0.811
0.3887 −0.793
0.3893 −0.794
0.3900 −0.812
0.3906 −0.798
0.3912 −0.789
0.3942 −0.790
0.3948 −0.788
0.3954 −0.795
0.3960 −0.773
0.3966 −0.771
0.3972 −0.772
0.4002 −0.767
0.4008 −0.771
0.4014 −0.768
0.4020 −0.757
0.4026 −0.744
0.4032 −0.751
0.4062 −0.736
0.4067 −0.733
0.4074 −0.725
0.4080 −0.728
0.4094 −0.740
0.4101 −0.720
0.4124 −0.714
0.4131 −0.706
0.4137 −0.704

0.4142 −0.704
0.4148 −0.703

2434591 +
0.4183 +0.173
0.4187 +0.152
0.4194 +0.177
0.4200 +0.159
0.4209 +0.173
0.4216 +0.173
0.4221 +0.176
0.4251 +0.180
0.4257 +0.169
0.4264 +0.156
0.4271 +0.158
0.4278 +0.159
0.4285 +0.160
0.4346 +0.111
0.4353 +0.097
0.4358 +0.114
0.4364 +0.093
0.4371 +0.083
0.4378 +0.075
0.4412 +0.031
0.4419 +0.014
0.4426 +0.006
0.4433 −0.015
0.4440 −0.009
0.4449 −0.024
0.4456 −0.066
0.4488 −0.133
0.4495 −0.149
0.4502 −0.173
0.4508 −0.173
0.4514 −0.203
0.4520 −0.229
0.4550 −0.294
0.4557 −0.312
0.4562 −0.317
0.4569 −0.338
0.4575 −0.338
0.4582 −0.346
0.4589 −0.379
0.4621 −0.427
0.4631 −0.437
0.4634 −0.448
0.4644 −0.451
0.4677 −0.480
0.4683 −0.472
0.4713 −0.498
0.4719 −0.511
0.4725 −0.501
0.4732 −0.515
0.4738 −0.536
0.4745 −0.528
0.4751 −0.532
0.4781 −0.553
0.4788 −0.566
0.4795 −0.580
0.4801 −0.592
0.4808 −0.608
0.4814 −0.595

0.4823 −0.620
0.4862 −0.655
0.4867 −0.660
0.4875 −0.652
0.4882 −0.659
0.4890 −0.684
0.4897 −0.694
0.4904 −0.688
0.4910 −0.698
0.4917 −0.709
0.4953 −0.753
0.4956 −0.742
0.4982 −0.767
0.4988 −0.779
0.4994 −0.768
0.5025 −0.807
0.5031 −0.802
0.5037 −0.809
0.5043 −0.798
0.5050 −0.793
0.5058 −0.803
0.5062 −0.802
0.5069 −0.795
0.5100 −0.810
0.5107 −0.816
0.5114 −0.815
0.5122 −0.809
0.5136 −0.814
0.5142 −0.822
0.5173 −0.832
0.5180 −0.825
0.5187 −0.823
0.5192 −0.807
0.5221 −0.816
0.5230 −0.808
0.5237 −0.816
0.5244 −0.810
0.5252 −0.808
0.5262 −0.806
0.5291 −0.790
0.5298 −0.797
0.5307 −0.784
0.5313 −0.782

2434599 +
0.3616 +0.165
0.3623 +0.162
0.3630 +0.169
0.3635 +0.168
0.3642 +0.149
0.3650 +0.164
0.3682 +0.106
0.3688 +0.108
0.3695 +0.096
0.3701 +0.104
0.3712 +0.080
0.3720 +0.075
0.3726 +0.083
0.3753 +0.061
0.3759 +0.036
0.3770 +0.026
0.3776 +0.015

0.3783 +0.006
0.3789 −0.011
0.3796 −0.027
0.3833 −0.077
0.3839 −0.090
0.3845 −0.099
0.3852 −0.112
0.3865 −0.182
0.3904 −0.233
0.3911 −0.262
0.3918 −0.264
0.3942 −0.330
0.3949 −0.352
0.3975 −0.413
0.3981 −0.418
0.3987 −0.455
0.3994 −0.454
0.4001 −0.468
0.4007 −0.452
0.4013 −0.464
0.4019 −0.462
0.4061 −0.522
0.4070 −0.529
0.4077 −0.536
0.4084 −0.570
0.4091 −0.586
0.4099 −0.571
0.4106 −0.596
0.4160 −0.668
0.4168 −0.671
0.4175 −0.683
0.4187 −0.696
0.4202 −0.726
0.4214 −0.745
0.4223 −0.756
0.4226 −0.759
0.4251 −0.795
0.4258 −0.791
0.4266 −0.795
0.4281 −0.793
0.4290 −0.809
0.4297 −0.827
0.4313 −0.847
0.4320 −0.842
0.4327 −0.843
0.4334 −0.855
0.4363 −0.863
0.4370 −0.872
0.4380 −0.867
0.4387 −0.885
0.4394 −0.871
0.4404 −0.892
0.4411 −0.899
0.4427 −0.889
0.4434 −0.900
0.4464 −0.875
0.4472 −0.892
0.4480 −0.883
0.4488 −0.887
0.4495 −0.883
0.4503 −0.875
0.4511 −0.851

0.4519 −0.857
0.4550 −0.826
0.4557 −0.830
0.4563 −0.811
0.4570 −0.819
0.4579 −0.806

2434600 +
0.4859 +0.188
0.4867 +0.182
0.4874 +0.193
0.4885 +0.156
0.4897 +0.161
0.4907 +0.153
0.4940 +0.144
0.4948 +0.180
0.4958 +0.167
0.4975 +0.165
0.4984 +0.136
0.4991 +0.140
0.5026 +0.128
0.5033 +0.103
0.5041 +0.098
0.5048 +0.115
0.5057 +0.117
0.5064 +0.072
0.5070 +0.101
0.5114 +0.013
0.5122 +0.013
0.5131 −0.013
0.5135 −0.016
0.5143 −0.031
0.5149 −0.070
0.5180 −0.091
0.5186 −0.118
0.5191 −0.146
0.5197 −0.152
0.5204 −0.168
0.5211 −0.170
0.5245 −0.246
0.5253 −0.288
0.5259 −0.279
0.5278 −0.325
0.5285 −0.359
0.5309 −0.404
0.5316 −0.412
0.5322 −0.406
0.5329 −0.420
0.5336 −0.427
0.5343 −0.451
0.5350 −0.458
0.5357 −0.471
0.5364 −0.461
0.5372 −0.487
0.5420 −0.523
0.5432 −0.578
0.5442 −0.576
0.5450 −0.582
0.5456 −0.628
0.5462 −0.622
0.5468 −0.630
0.5475 −0.642

0.5481 −0.655
0.5515 −0.710
0.5521 −0.695
0.5525 −0.687
0.5536 −0.730
0.5543 −0.717
0.5550 −0.729
0.5556 −0.747
0.5592 −0.780
0.5599 −0.788
0.5605 −0.811
0.5611 −0.805
0.5616 −0.818
0.5627 −0.803
0.5633 −0.826
0.5665 −0.828
0.5672 −0.854
0.5680 −0.838
0.5686 −0.844
0.5691 −0.833
0.5698 −0.852
0.5705 −0.848
0.5709 −0.847
0.5743 −0.839
0.5749 −0.844
0.5755 −0.866
0.5761 −0.863
0.5768 −0.857
0.5775 −0.851
0.5783 −0.863
0.5789 −0.845
0.5818 −0.853
0.5825 −0.836
0.5832 −0.830
0.5839 −0.828
0.5846 −0.827

2434604 +
0.4728 +0.075
0.4733 +0.090
0.4766 +0.012
0.4772 −0.019
0.4784 −0.016
0.4795 −0.025
0.4801 −0.063
0.4807 −0.047
0.4813 −0.078
0.4855 −0.164
0.4867 −0.194
0.4873 −0.219
0.4884 −0.240
0.4948 −0.416
0.4956 −0.436
0.4966 −0.445
0.4979 −0.469
0.5218 −0.796
0.5224 −0.813
0.5230 −0.812
0.5237 −0.813
0.5243 −0.823
0.5270 −0.847
0.5276 −0.867

0.5282 −0.873
0.5287 −0.876
0.5299 −0.891
0.5305 −0.880
0.5312 −0.877
0.5342 −0.896
0.5349 −0.893
0.5355 −0.892
0.5361 −0.894
0.5367 −0.893
0.5374 −0.885
0.5381 −0.878
0.5387 −0.872
0.5423 −0.876
0.5430 −0.878
0.5439 −0.860
0.5446 −0.844
0.5459 −0.859
0.5466 −0.838
0.5473 −0.813

2434608 +
0.4112 +0.183
0.4119 +0.168
0.4125 +0.167
0.4136 +0.159
0.4149 +0.165
0.4178 +0.172
0.4185 +0.185
0.4191 +0.191
0.4197 +0.161
0.4203 +0.173
0.4214 +0.169
0.4220 +0.182
0.4246 +0.175
0.4252 +0.169
0.4258 +0.154
0.4265 +0.151
0.4272 +0.173
0.4278 +0.159
0.4284 +0.149
0.4320 +0.104
0.4325 +0.105
0.4332 +0.094
0.4338 +0.086
0.4345 +0.093
0.4351 +0.058
0.4358 +0.072
0.4386 +0.022
0.4392 −0.003
0.4398 −0.009
0.4404 −0.009
0.4412 −0.026
0.4419 −0.034
0.4426 −0.032
0.4452 −0.100
0.4458 −0.107
0.4465 −0.129
0.4472 −0.151
0.4479 −0.150
0.4485 −0.149
0.4492 −0.175

0.4499 −0.198
0.4527 −0.267
0.4533 −0.284
0.4540 −0.305
0.4547 −0.312
0.4554 −0.327
0.4561 −0.341
0.4567 −0.369
0.4575 −0.375
0.4602 −0.438
0.4609 −0.476
0.4615 −0.482
0.4621 −0.483
0.4628 −0.493
0.4634 −0.493
0.4641 −0.511
0.4647 −0.526
0.4673 −0.598
0.4680 −0.599
0.4687 −0.620
0.4692 −0.619
0.4699 −0.638
0.4706 −0.634
0.4713 −0.646
0.4720 −0.642
0.4745 −0.676
0.4753 −0.688
0.4760 −0.672
0.4767 −0.683
0.4775 −0.710
0.4782 −0.714
0.4788 −0.714
0.4795 −0.738
0.4803 −0.739
0.4830 −0.773
0.4837 −0.783
0.4844 −0.791
0.4851 −0.802
0.4859 −0.814
0.4867 −0.809
0.4881 −0.821
0.4886 −0.818
0.4928 −0.842
0.4935 −0.848
0.4944 −0.866
0.4949 −0.864
0.4960 −0.853
0.4967 −0.882
0.4974 −0.861
0.4980 −0.869
0.4988 −0.883
0.4995 −0.880
0.5002 −0.876
0.5033 −0.859
0.5040 −0.860
0.5048 −0.869
0.5056 −0.875
0.5063 −0.857
0.5071 −0.851
0.5078 −0.861
0.5085 −0.860
0.5092 −0.851

0.5126 −0.835
0.5133 −0.833
0.5140 −0.823
0.5148 −0.815
0.5161 −0.813
0.5169 −0.797

2434611 +
0.3129 −0.797
0.3137 −0.807
0.3144 −0.816
0.3151 −0.833
0.3188 −0.836
0.3194 −0.843
0.3201 −0.831
0.3208 −0.832
0.3217 −0.836
0.3224 −0.839
0.3286 −0.858
0.3293 −0.843
0.3299 −0.838
0.3307 −0.841
0.3313 −0.841
0.3413 −0.828
0.3419 −0.832
0.3425 −0.846

2434620 +
0.3514 −0.262
0.3520 −0.279
0.3529 −0.282
0.3537 −0.327
0.3553 −0.373
0.3561 −0.355
0.3589 −0.411
0.3611 −0.447
0.3625 −0.486
0.3654 −0.551
0.3660 −0.569
0.3666 −0.565
0.3673 −0.569
0.3698 −0.610
0.3704 −0.623
0.3712 −0.620
0.3737 −0.652
0.3744 −0.658
0.3751 −0.661
0.3776 −0.697
0.3784 −0.702
0.3800 −0.710
0.3807 −0.723
0.3839 −0.756
0.3845 −0.756
0.3854 −0.753
0.3862 −0.765
0.3889 −0.776
0.3896 −0.768
0.3903 −0.780
0.3910 −0.795
0.3918 −0.787
0.3984 −0.812
0.3991 −0.794

0.3998 −0.811
0.4006 −0.805
0.4033 −0.816
0.4039 −0.832
0.4046 −0.824
0.4054 −0.819

2434621 +
0.4499 +0.181
0.4505 +0.186
0.4511 +0.160
0.4516 +0.157
0.4523 +0.160
0.4530 +0.180
0.4538 +0.168
0.4564 +0.158
0.4570 +0.150
0.4577 +0.155
0.4583 +0.140
0.4591 +0.132
0.4602 +0.139
0.4609 +0.138
0.4643 +0.128
0.4650 +0.129
0.4656 +0.106
0.4663 +0.101
0.4669 +0.084
0.4675 +0.093
0.4682 +0.088
0.4710 +0.069
0.4717 +0.044
0.4723 +0.038
0.4736 +0.048
0.4744 +0.020
0.4751 +0.009
0.4776 −0.049
0.4782 −0.059
0.4790 −0.079
0.4796 −0.089
0.4802 −0.104
0.4809 −0.093
0.4815 −0.119
0.4847 −0.185
0.4854 −0.210
0.4860 −0.218
0.4867 −0.241
0.4874 −0.259
0.4880 −0.286
0.4886 −0.307
0.4893 −0.308
0.4921 −0.415
0.4928 −0.419
0.4935 −0.442
0.4941 −0.446
0.4948 −0.470
0.4955 −0.505
0.4963 −0.493
0.4970 −0.520
0.4995 −0.558
0.5002 −0.556
0.5009 −0.549
0.5016 −0.555

0.5023 −0.557
0.5029 −0.565
0.5036 −0.584
0.5043 −0.596
0.5068 −0.601
0.5076 −0.618
0.5084 −0.625
0.5091 −0.623
0.5099 −0.634
0.5106 −0.643
0.5114 −0.662
0.5120 −0.656
0.5153 −0.696
0.5160 −0.688
0.5168 −0.701
0.5175 −0.718
0.5181 −0.733
0.5188 −0.731
0.5194 −0.732
0.5202 −0.744
0.5232 −0.776
0.5239 −0.767
0.5246 −0.776
0.5253 −0.791
0.5260 −0.802
0.5268 −0.805
0.5275 −0.786
0.5282 −0.798
0.5367 −0.794
0.5374 −0.799
0.5381 −0.790
0.5388 −0.787
0.5411 −0.803
0.5417 −0.805
0.5424 −0.799
0.5456 −0.773
0.5462 −0.779
0.5469 −0.766
0.5476 −0.776
0.5482 −0.782
0.5506 −0.769
0.5513 −0.754
0.5519 −0.753
0.5525 −0.761
0.5532 −0.760

2434624 +
0.3083 −0.005
0.3098 −0.009
0.3105 −0.031
0.3143 −0.099
0.3147 −0.108
0.3156 −0.139
0.3162 −0.126
0.3169 −0.166
0.3177 −0.185
0.3211 −0.229
0.3223 −0.247
0.3238 −0.285
0.3256 −0.341
0.3265 −0.359
0.3276 −0.380

0.3284 −0.377	0.4215 −0.639	0.5369 −0.709	0.3543 −0.767	0.4124 +0.000
0.3326 −0.460	0.4222 −0.626	0.5376 −0.722	0.3550 −0.763	0.4133 +0.009
0.3333 −0.488		0.5388 −0.712	0.3556 −0.763	0.4140 −0.023
0.3339 −0.502	2434625 +	0.5395 −0.708	0.3563 −0.761	0.4146 −0.025
0.3347 −0.493	0.4452 +0.009	0.5401 −0.718	0.3569 −0.752	0.4153 −0.046
0.3355 −0.520	0.4458 +0.016	0.5407 −0.708	0.3573 −0.752	0.4180 −0.075
0.3367 −0.513	0.4465 +0.000		0.3581 −0.750	0.4186 −0.103
0.3397 −0.543	0.4471 −0.002	2434628 +	0.3611 −0.741	0.4191 −0.099
0.3406 −0.569	0.4478 −0.029	0.2913 −0.230	0.3619 −0.735	0.4197 −0.093
0.3417 −0.577	0.4485 −0.067	0.2919 −0.234	0.3626 −0.733	0.4204 −0.105
0.3428 −0.579	0.4491 −0.068	0.2929 −0.241	0.3633 −0.730	0.4213 −0.124
0.3435 −0.591	0.4515 −0.168	0.2937 −0.285	0.3640 −0.728	0.4221 −0.158
0.3440 −0.593	0.4523 −0.180	0.2943 −0.288	0.3648 −0.729	0.4226 −0.152
0.3491 −0.655	0.4531 −0.209	0.2950 −0.314	0.3655 −0.730	0.4250 −0.215
0.3498 −0.649	0.4538 −0.203	0.2977 −0.338	0.3662 −0.721	0.4256 −0.206
0.3504 −0.652	0.4544 −0.222	0.2983 −0.361	0.3696 −0.726	0.4262 −0.249
0.3511 −0.669	0.4551 −0.238	0.2990 −0.356	0.3702 −0.713	0.4268 −0.261
0.3518 −0.678	0.4558 −0.253	0.2997 −0.395	0.3709 −0.709	0.4275 −0.253
0.3524 −0.682	0.4587 −0.338	0.3003 −0.402	0.3715 −0.709	0.4282 −0.266
0.3563 −0.702	0.4593 −0.362	0.3011 −0.404	0.3723 −0.705	0.4291 −0.299
0.3570 −0.703	0.4599 −0.375	0.3018 −0.396	0.3730 −0.700	0.4298 −0.302
0.3577 −0.707	0.4606 −0.382	0.3023 −0.429	0.3737 −0.691	0.4335 −0.377
0.3584 −0.723	0.4612 −0.385	0.3051 −0.452	0.3777 −0.689	0.4348 −0.383
0.3617 −0.718	0.4876 −0.632	0.3060 −0.457	0.3784 −0.691	0.4355 −0.396
0.3628 −0.730	0.4881 −0.655	0.3066 −0.456	0.3791 −0.701	0.4361 −0.404
0.3637 −0.742	0.4887 −0.666	0.3075 −0.471	0.3797 −0.693	0.4369 −0.420
0.3648 −0.745	0.4911 −0.688	0.3083 −0.497	0.3803 −0.700	0.4376 −0.442
0.3654 −0.754	0.4918 −0.692	0.3090 −0.505	0.3815 −0.687	0.4383 −0.442
0.3661 −0.743	0.4924 −0.690	0.3097 −0.495	0.3846 −0.672	0.4407 −0.475
0.3668 −0.756	0.4937 −0.686	0.3125 −0.530	0.3853 −0.659	0.4414 −0.465
0.3712 −0.773	0.4944 −0.705	0.3136 −0.510	0.3859 −0.646	0.4421 −0.488
0.3718 −0.775	0.4984 −0.730	0.3175 −0.548	0.3866 −0.654	0.4429 −0.473
0.3725 −0.773	0.4991 −0.719	0.3184 −0.551	0.3872 −0.649	0.4436 −0.485
0.3732 −0.763	0.4999 −0.737	0.3191 −0.574	0.3887 −0.643	0.4441 −0.490
0.3738 −0.777	0.5005 −0.734	0.3202 −0.590		0.4447 −0.489
0.3753 −0.754	0.5012 −0.729	0.3211 −0.602	2434629 +	0.4454 −0.502
0.3788 −0.756	0.5019 −0.737	0.3228 −0.598	0.3797 +0.184	0.4482 −0.544
0.3794 −0.740	0.5050 −0.734	0.3245 −0.605	0.3809 +0.197	0.4489 −0.547
0.3801 −0.751	0.5056 −0.725	0.3286 −0.649	0.3827 +0.193	0.4497 −0.565
0.3808 −0.754	0.5059 −0.745	0.3293 −0.656	0.3840 +0.195	0.4504 −0.560
0.3814 −0.744	0.5071 −0.739	0.3300 −0.655	0.3878 +0.184	0.4515 −0.572
0.3822 −0.751	0.5113 −0.744	0.3308 −0.684	0.3885 +0.169	0.4521 −0.582
0.3828 −0.750	0.5119 −0.747	0.3314 −0.695	0.3897 +0.150	0.4528 −0.587
0.3869 −0.755	0.5126 −0.749	0.3321 −0.707	0.3903 +0.162	0.4535 −0.579
0.3876 −0.736	0.5133 −0.754	0.3332 −0.717	0.3909 +0.179	0.4564 −0.614
0.3883 −0.727	0.5140 −0.758	0.3341 −0.707	0.3915 +0.162	0.4571 −0.627
0.3895 −0.728	0.5175 −0.742	0.3373 −0.737	0.3921 +0.162	0.4578 −0.610
0.3903 −0.738	0.5182 −0.759	0.3382 −0.729	0.3954 +0.167	0.4586 −0.621
0.3934 −0.732	0.5188 −0.753	0.3395 −0.747	0.3963 +0.152	0.4594 −0.636
0.3940 −0.729	0.5195 −0.740	0.3403 −0.741	0.3980 +0.159	0.4601 −0.641
0.3949 −0.720	0.5208 −0.736	0.3412 −0.757	0.4010 +0.157	0.4608 −0.650
0.3958 −0.712	0.5240 −0.732	0.3418 −0.750	0.4037 +0.149	0.4617 −0.657
0.3966 −0.729	0.5247 −0.736	0.3425 −0.742	0.4044 +0.149	0.4649 −0.666
0.3984 −0.722	0.5255 −0.732	0.3432 −0.753	0.4049 +0.135	0.4656 −0.682
0.4026 −0.695	0.5262 −0.736	0.3462 −0.758	0.4056 +0.123	0.4663 −0.690
0.4035 −0.708	0.5268 −0.744	0.3468 −0.763	0.4059 +0.100	0.4670 −0.708
0.4068 −0.695	0.5275 −0.747	0.3481 −0.773	0.4064 +0.100	0.4679 −0.697
0.4109 −0.663	0.5314 −0.720	0.3490 −0.761	0.4072 +0.078	0.4688 −0.698
0.4124 −0.660	0.5321 −0.733	0.3496 −0.772	0.4078 +0.069	0.4694 −0.705
0.4140 −0.659	0.5328 −0.719	0.3502 −0.750	0.4101 +0.049	0.4701 −0.710
0.4185 −0.643	0.5335 −0.723	0.3509 −0.767	0.4108 +0.049	0.4730 −0.729
0.4207 −0.647	0.5341 −0.733	0.3537 −0.763	0.4115 +0.017	0.4741 −0.734

0.4747 −0.736
0.4754 −0.743
0.4761 −0.745
0.4768 −0.745
0.4775 −0.764
0.4781 −0.773
0.4844 −0.762
0.4850 −0.780
0.4856 −0.780
0.4862 −0.775
0.4870 −0.773
0.4876 −0.780
0.4903 −0.774
0.4911 −0.774
0.4918 −0.777
0.4925 −0.767
0.4943 −0.767
0.4949 −0.779
0.4956 −0.775
0.4963 −0.775
0.4994 −0.750
0.5001 −0.755
0.5008 −0.754
0.5014 −0.756
0.5040 −0.756
0.5048 −0.740

2434642 +
0.4515 +0.086
0.4520 +0.057
0.4525 +0.080
0.4532 +0.057
0.4541 +0.010
0.4547 +0.004
0.4553 +0.006
0.4575 −0.028
0.4581 −0.019
0.4586 −0.053
0.4592 −0.064
0.4598 −0.047
0.4603 −0.063
0.4608 −0.068
0.4827 −0.511
0.4843 −0.550
0.4848 −0.560
0.4860 −0.564
0.4867 −0.569
0.4876 −0.604
0.4881 −0.627
0.4992 −0.751
0.4998 −0.748
0.5004 −0.778
0.5010 −0.759
0.5016 −0.773
0.5022 −0.780
0.5028 −0.788
0.5033 −0.798
0.5060 −0.818
0.5066 −0.819
0.5071 −0.804
0.5077 −0.827
0.5082 −0.817

0.5088 −0.820
0.5094 −0.827
0.5100 −0.834
0.5129 −0.861
0.5136 −0.856
0.5143 −0.851
0.5151 −0.855
0.5157 −0.863
0.5162 −0.850
0.5168 −0.860
0.5173 −0.852
0.5198 −0.866
0.5205 −0.851
0.5210 −0.842
0.5216 −0.847
0.5222 −0.829
0.5229 −0.829
0.5235 −0.830
0.5269 −0.817
0.5276 −0.821
0.5281 −0.806
0.5287 −0.815

2434650 +
0.3831 +0.011
0.3842 +0.007
0.3847 +0.013
0.3875 −0.070
0.3880 −0.079
0.3886 −0.073
0.3892 −0.089
0.3919 −0.158
0.3929 −0.209
0.3935 −0.217
0.3974 −0.326
0.3979 −0.320
0.3984 −0.361
0.3992 −0.372

2434653 +
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0.2354 −0.408
0.2360 −0.429
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0.2373 −0.463
0.2378 −0.465
0.2385 −0.470
0.2391 −0.471
0.2415 −0.527
0.2422 −0.542
0.2429 −0.555
0.2434 −0.567
0.2440 −0.574
0.2445 −0.575
0.2452 −0.590
0.2459 −0.591
0.2484 −0.631
0.2489 −0.643
0.2496 −0.637
0.2502 −0.657
0.2508 −0.664
0.2517 −0.680

0.2523 −0.692
0.2530 −0.713
0.2559 −0.734
0.2564 −0.759
0.2571 −0.759
0.2577 −0.765
0.2584 −0.767
0.2591 −0.767
0.2595 −0.780
0.2604 −0.790
0.2635 −0.802
0.2644 −0.804
0.2659 −0.810
0.2665 −0.814
0.2671 −0.827
0.2677 −0.834
0.2682 −0.834
0.2708 −0.860
0.2714 −0.862
0.2722 −0.852
0.2728 −0.843
0.2734 −0.851
0.2740 −0.858
0.2746 −0.870
0.2753 −0.862
0.2780 −0.849
0.2787 −0.831
0.2793 −0.832
0.2799 −0.837
0.2805 −0.838
0.2811 −0.826
0.2817 −0.822
0.2824 −0.831
0.2854 −0.834
0.2861 −0.825
0.2868 −0.827
0.2875 −0.818
0.2881 −0.817
0.2888 −0.829
0.2895 −0.823
0.2903 −0.808
0.2929 −0.801
0.2936 −0.792
0.2944 −0.790
0.2951 −0.778
0.2957 −0.766
0.2963 −0.771
0.2969 −0.780
0.2975 −0.757

2434654 +
0.3248 +0.185
0.3255 +0.190
0.3261 +0.164
0.3266 +0.171
0.3273 +0.166
0.3279 +0.161
0.3285 +0.166
0.3291 +0.161
0.3319 +0.150
0.3326 +0.141
0.3332 +0.160

0.3341 +0.155
0.3348 +0.146
0.3354 +0.146
0.3361 +0.165
0.3368 +0.140
0.3397 +0.133
0.3411 +0.109
0.3417 +0.120
0.3424 +0.122
0.3431 +0.100
0.3437 +0.109
0.3443 +0.103
0.3474 +0.055
0.3481 +0.042
0.3487 +0.010
0.3493 +0.002
0.3500 +0.002
0.3508 −0.015
0.3515 −0.036
0.3522 −0.053
0.3552 −0.128
0.3559 −0.123
0.3564 −0.139
0.3569 −0.162
0.3575 −0.170
0.3582 −0.205
0.3587 −0.203
0.3594 −0.240
0.3619 −0.275
0.3625 −0.279
0.3631 −0.300
0.3638 −0.333
0.3646 −0.334
0.3652 −0.347
0.3657 −0.361
0.3663 −0.371
0.3697 −0.433
0.3699 −0.424
0.3705 −0.446
0.3710 −0.476
0.3716 −0.464
0.3722 −0.492
0.3729 −0.503
0.3736 −0.497
0.3770 −0.577
0.3775 −0.592
0.3781 −0.596
0.3788 −0.611
0.3794 −0.616
0.3805 −0.630
0.3812 −0.638
0.3851 −0.702
0.3857 −0.703
0.3864 −0.704
0.3871 −0.727
0.3877 −0.720
0.3887 −0.748
0.3896 −0.764
0.3932 −0.798
0.3939 −0.822
0.3946 −0.831
0.3953 −0.837

0.3960 −0.860
0.3966 −0.863
0.3972 −0.849
0.3980 −0.874
0.4011 −0.869
0.4025 −0.873
0.4032 −0.900
0.4040 −0.881
0.4047 −0.883
0.4054 −0.871
0.4062 −0.885
0.4090 −0.872
0.4096 −0.869
0.4104 −0.873
0.4110 −0.875
0.4116 −0.873
0.4123 −0.874
0.4131 −0.845
0.4137 −0.833
0.4162 −0.819
0.4167 −0.807
0.4173 −0.809
0.4179 −0.804

2434658 +
0.3303 −0.306
0.3308 −0.321
0.3312 −0.319
0.3318 −0.327
0.3323 −0.356
0.3329 −0.377
0.3335 −0.389
0.3340 −0.409
0.3362 −0.451
0.3367 −0.444
0.3373 −0.462
0.3379 −0.472
0.3385 −0.484
0.3409 −0.519
0.3414 −0.541

2434662 +
0.2802 +0.124
0.2809 +0.098
0.2818 +0.087
0.2827 +0.084
0.2837 +0.074
0.2844 +0.066
0.2851 +0.045
0.2884 −0.002
0.2891 −0.019
0.2898 −0.040
0.2905 −0.054
0.2913 −0.090
0.2919 −0.100
0.2926 −0.112
0.2933 −0.107
0.2969 −0.184
0.2979 −0.217
0.2986 −0.246
0.2993 −0.255
0.3000 −0.286

0.3006 −0.310
0.3014 −0.320
0.3021 −0.342
0.3061 −0.416
0.3067 −0.429
0.3073 −0.452
0.3080 −0.459
0.3088 −0.484
0.3095 −0.490
0.3102 −0.497
0.3110 −0.511
0.3143 −0.521
0.3151 −0.534
0.3157 −0.547
0.3164 −0.550
0.3170 −0.558
0.3178 −0.577
0.3185 −0.569
0.3190 −0.580
0.3221 −0.613
0.3228 −0.620
0.3235 −0.618
0.3242 −0.622
0.3249 −0.633
0.3256 −0.658
0.3262 −0.655
0.3269 −0.667
0.3304 −0.692
0.3311 −0.705
0.3317 −0.710
0.3323 −0.711
0.3330 −0.726
0.3337 −0.728
0.3345 −0.733
0.3352 −0.725
0.3383 −0.726
0.3390 −0.737
0.3396 −0.735
0.3403 −0.746
0.3410 −0.746
0.3418 −0.739
0.3426 −0.745
0.3434 −0.751
0.3463 −0.752
0.3470 −0.761
0.3477 −0.764
0.3484 −0.765
0.3491 −0.763
0.3498 −0.756
0.3505 −0.771
0.3512 −0.761
0.3544 −0.744
0.3551 −0.752
0.3558 −0.748
0.3564 −0.741
0.3571 −0.737
0.3578 −0.742
0.3585 −0.728
0.3592 −0.739
0.3624 −0.715
0.3630 −0.718
0.3636 −0.702
0.3643 −0.697
0.3650 −0.697
0.3656 −0.703
0.3665 −0.700
0.3703 −0.675
0.3710 −0.684
0.3717 −0.683
0.3727 −0.675
0.3739 −0.679
0.3745 −0.661
0.3752 −0.664
0.3788 −0.644
0.3795 −0.641
0.3801 −0.627
0.3808 −0.625

2434679 +
0.2870 +0.128
0.2877 +0.111
0.2891 +0.108
0.2907 +0.095
0.2912 +0.056
0.2919 +0.040
0.2948 +0.018
0.2954 +0.012
0.2960 −0.012
0.2979 −0.033
0.2984 −0.045
0.2989 −0.060
0.2995 −0.068
0.3027 −0.135
0.3050 −0.168
0.3062 −0.200
0.3068 −0.200
0.3073 −0.227
0.3099 −0.270
0.3104 −0.273
0.3110 −0.297
0.3115 −0.304
0.3121 −0.312
0.3127 −0.337
0.3133 −0.339
0.3140 −0.350
0.3176 −0.414
0.3182 −0.418
0.3187 −0.431
0.3194 −0.423
0.3200 −0.428
0.3206 −0.451
0.3211 −0.455
0.3217 −0.479
0.3260 −0.503
0.3266 −0.503
0.3272 −0.495
0.3278 −0.509
0.3286 −0.520
0.3292 −0.524
0.3298 −0.529
0.3304 −0.530
0.3338 −0.565
0.3344 −0.564
0.3349 −0.591
0.3356 −0.581
0.3362 −0.601
0.3369 −0.608
0.3375 −0.619
0.3382 −0.637
0.3430 −0.716
0.3437 −0.717
0.3442 −0.735
0.3448 −0.730
0.3468 −0.737
0.3473 −0.758
0.3542 −0.809
0.3548 −0.789
0.3555 −0.788
0.3560 −0.792
0.3565 −0.806
0.3570 −0.801
0.3575 −0.809
0.3580 −0.799
0.3615 −0.803
0.3621 −0.807
0.3626 −0.807
0.3632 −0.815
0.3637 −0.788
0.3643 −0.794
0.3649 −0.798
0.3655 −0.795
0.3692 −0.799
0.3697 −0.799
0.3703 −0.801
0.3708 −0.774
0.3714 −0.778
0.3720 −0.790

2435408 +
0.2529 −0.510
0.2538 −0.505
0.2551 −0.531
0.2560 −0.549
0.2601 −0.606
0.2616 −0.601
0.2667 −0.623
0.2728 −0.626
0.2738 −0.638
0.2749 −0.634
0.2758 −0.630
0.2816 −0.648
0.2829 −0.668
0.2838 −0.642
0.2884 −0.630
0.2893 −0.634
0.2904 −0.651
0.2941 −0.649
0.2950 −0.641
0.2960 −0.639
0.3000 −0.626
0.3009 −0.641
0.3019 −0.655

2435685 +
0.3602 +0.106
0.3618 +0.093
0.3630 +0.111
0.3644 +0.085
0.3656 +0.093
0.3669 +0.087
0.3719 +0.077
0.3732 +0.079
0.3745 +0.052
0.3757 +0.058
0.3770 +0.046
0.3782 +0.004
0.3793 −0.002
0.3805 −0.030
0.3855 −0.121
0.3893 −0.192
0.3906 −0.216
0.3920 −0.271
0.3932 −0.293
0.3985 −0.409
0.3998 −0.434
0.4011 −0.460
0.4024 −0.465
0.4036 −0.497

2435693 +
0.3226 −0.037
0.3238 −0.066
0.3250 −0.095
0.3261 −0.111
0.3274 −0.143
0.3286 −0.160
0.3298 −0.192
0.3345 −0.255
0.3654 −0.601
0.3664 −0.627
0.3736 −0.640
0.3750 −0.646
0.3765 −0.646
0.3778 −0.648
0.3827 −0.667
0.3841 −0.676
0.3855 −0.683
0.3900 −0.674
0.3913 −0.683
0.3927 −0.658
0.3988 −0.655
0.4003 −0.646
0.4064 −0.624
0.4079 −0.627
0.4093 −0.658
0.4148 −0.623
0.4162 −0.624
0.4178 −0.621
0.4244 −0.579
0.4255 −0.554
0.4267 −0.552

2435739 +
0.2730 −0.437
0.2738 −0.439
0.2746 −0.437
0.2754 −0.435
0.2759 −0.450
0.2765 −0.454
0.2771 −0.435
0.2778 −0.442
0.2804 −0.455
0.2812 −0.457
0.2818 −0.457
0.2825 −0.464
0.2832 −0.464
0.2839 −0.473
0.2845 −0.468
0.2851 −0.475
0.2858 −0.479
0.2885 −0.506
0.2891 −0.509
0.2898 −0.509
0.2905 −0.507
0.2911 −0.513
0.2917 −0.523
0.2924 −0.521
0.2930 −0.533
0.2966 −0.563
0.2972 −0.571
0.2979 −0.564
0.2986 −0.577
0.2992 −0.574
0.2999 −0.584
0.3006 −0.594
0.3013 −0.598
0.3020 −0.602
0.3052 −0.613
0.3059 −0.629
0.3065 −0.628
0.3072 −0.638
0.3079 −0.642
0.3086 −0.640
0.3093 −0.646
0.3099 −0.649
0.3132 −0.660
0.3138 −0.657
0.3145 −0.661
0.3152 −0.659
0.3161 −0.661
0.3168 −0.657
0.3175 −0.661
0.3182 −0.653
0.3212 −0.663
0.3218 −0.663
0.3225 −0.654
0.3232 −0.669
0.3240 −0.672
0.3248 −0.665
0.3256 −0.668
0.3263 −0.678
0.3297 −0.676
0.3305 −0.675
0.3313 −0.669
0.3321 −0.670
0.3328 −0.666
0.3335 −0.660
0.3348 −0.655
0.3381 −0.647
0.3388 −0.643

0.3395 −0.642
0.3402 −0.644
0.3409 −0.635
0.3417 −0.647
0.3422 −0.634
0.3429 −0.639
0.3460 −0.621
0.3466 −0.621
0.3473 −0.616
0.3482 −0.612
0.3488 −0.607
0.3495 −0.617
0.3501 −0.620
0.3509 −0.608
0.3541 −0.602
0.3548 −0.604
0.3555 −0.594
0.3563 −0.594
0.3569 −0.595
0.3575 −0.589
0.3582 −0.588
0.3588 −0.591
0.3630 −0.567
0.3637 −0.573
0.3643 −0.563
0.3649 −0.566

2435991 +
0.4403 +0.139
0.4412 +0.142
0.4424 +0.147
0.4436 +0.141
0.4447 +0.145
0.4456 +0.132
0.4466 +0.160
0.4473 +0.147
0.4507 +0.155
0.4516 +0.152
0.4527 +0.182
0.4537 +0.182
0.4546 +0.181
0.4557 +0.171
0.4569 +0.196
0.4578 +0.198
0.4620 +0.187
0.4632 +0.204
0.4643 +0.191
0.4653 +0.205
0.4664 +0.204
0.4679 +0.174
0.4690 +0.174
0.4706 +0.170
0.4752 +0.146
0.4786 +0.111
0.4808 +0.103
0.4931 −0.011
0.4945 −0.044
0.4956 −0.042
0.4993 −0.116
0.5005 −0.158
0.5018 −0.177
0.5055 −0.248
0.5073 −0.261
0.5093 −0.310
0.5104 −0.302
0.5118 −0.342
0.5128 −0.357
0.5140 −0.370
0.5155 −0.378
0.5193 −0.440
0.5202 −0.449
0.5211 −0.468
0.5221 −0.491
0.5232 −0.505
0.5243 −0.528
0.5253 −0.534
0.5263 −0.544
0.5294 −0.594
0.5304 −0.614
0.5313 −0.618
0.5322 −0.622
0.5330 −0.631
0.5338 −0.645
0.5361 −0.693
0.5367 −0.702
0.5372 −0.716
0.5377 −0.722
0.5384 −0.727
0.5393 −0.715
0.5404 −0.746
0.5411 −0.734
0.5418 −0.761
0.5445 −0.783
0.5456 −0.800
0.5469 −0.798
0.5479 −0.818
0.5489 −0.801

2436121 +
0.2878 −0.009
0.2884 −0.015
0.2902 −0.058
0.2911 −0.065
0.2947 −0.156
0.2954 −0.155
0.2963 −0.181
0.2971 −0.191
0.3011 −0.302
0.3021 −0.315
0.3032 −0.359
0.3037 −0.372
0.3075 −0.506
0.3082 −0.515
0.3089 −0.525
0.3096 −0.542
0.3103 −0.576
0.3137 −0.664
0.3146 −0.707
0.3165 −0.753
0.3222 −0.831
0.3254 −0.894
0.3261 −0.882
0.3271 −0.931
0.3309 −0.967
0.3320 −0.985
0.3328 −0.983
0.3335 −0.982
0.3367 −1.000
0.3377 −1.011
0.3382 −1.007
0.3390 −1.006
0.3398 −0.983
0.3433 −1.012
0.3440 −0.995
0.3448 −1.001
0.3456 −1.010
0.3499 −0.968
0.3505 −0.963
0.3512 −0.954
0.3520 −0.941
0.3537 −0.940
0.3571 −0.903
0.3579 −0.894
0.3594 −0.904
0.3605 −0.895
0.3641 −0.862
0.3650 −0.854
0.3658 −0.848
0.3667 −0.847
0.3706 −0.810
0.3712 −0.800
0.3718 −0.791
0.3725 −0.788
0.3732 −0.800

2436129 +
0.2597 −0.818
0.2604 −0.834
0.2612 −0.821
0.2621 −0.825
0.2629 −0.830
0.2672 −0.841
0.2680 −0.840
0.2690 −0.828
0.2699 −0.838
0.2711 −0.834
0.2721 −0.832
0.2732 −0.836
0.2766 −0.795
0.2802 −0.800
0.2810 −0.778
0.2819 −0.791
0.2864 −0.761
0.2872 −0.737
0.2880 −0.738
0.2889 −0.726
0.2910 −0.709

2436142 +
0.2470 +0.062
0.2518 −0.064
0.2526 −0.064
0.2534 −0.073
0.2544 −0.094
0.2553 −0.116
0.2601 −0.181
0.2614 −0.201
0.2622 −0.194
0.2630 −0.205
0.2680 −0.271
0.2689 −0.316
0.2697 −0.319
0.2704 −0.325
0.2719 −0.354
0.2726 −0.357
0.2762 −0.399
0.2770 −0.418
0.2777 −0.423
0.2784 −0.434
0.2792 −0.427
0.2799 −0.453
0.2807 −0.451
0.2842 −0.481
0.2850 −0.479
0.2857 −0.474
0.2864 −0.472
0.2872 −0.474
0.2880 −0.482
0.2923 −0.473
0.2931 −0.481
0.2939 −0.478
0.2947 −0.478
0.2954 −0.492
0.2963 −0.491
0.2971 −0.498
0.3012 −0.512
0.3020 −0.522
0.3027 −0.523
0.3035 −0.521
0.3043 −0.526
0.3051 −0.530
0.3247 −0.580
0.3255 −0.577
0.3262 −0.594
0.3269 −0.613
0.3277 −0.614
0.3284 −0.610
0.3321 −0.612
0.3328 −0.617
0.3336 −0.624
0.3344 −0.619
0.3352 −0.616
0.3360 −0.614
0.3367 −0.603
0.3405 −0.595
0.3412 −0.603
0.3420 −0.607
0.3428 −0.611
0.3436 −0.601
0.3444 −0.607
0.3452 −0.607

Table 3. Photoelectric V observations

2436411 +
0.5271 −0.460
0.5312 −0.482
0.5327 −0.510
0.5343 −0.522
0.5361 −0.558
0.5375 −0.569
0.5408 −0.589
0.5424 −0.600
0.5440 −0.626
0.5455 −0.633
0.5473 −0.657
0.5514 −0.667
0.5538 −0.667
0.5555 −0.659
0.5571 −0.669
0.5608 −0.642

2436415 +
0.3832 −0.019
0.3854 −0.022
0.3875 −0.036
0.3896 −0.026
0.3937 +0.009
0.3958 +0.017
0.3979 +0.020
0.4000 +0.022
0.4020 +0.028
0.4069 +0.050
0.4090 +0.038
0.4111 +0.032
0.4132 +0.034
0.4153 +0.036
0.4194 +0.036
0.4215 +0.043
0.4236 +0.052
0.4257 +0.056
0.4278 +0.057
0.4319 +0.059
0.4340 +0.069
0.4361 +0.081
0.4382 +0.075
0.4403 +0.052
0.4451 +0.052
0.4472 +0.051
0.4493 +0.042
0.4514 +0.042
0.4534 +0.036
0.4576 +0.017
0.4597 +0.007
0.4618 −0.016
0.4639 −0.031
0.4660 −0.050
0.4697 −0.107
0.4711 −0.116
0.4725 −0.134
0.4739 −0.149
0.4753 −0.173
0.4791 −0.256
0.4809 −0.289
0.4829 −0.361
0.4847 −0.392
0.4863 −0.427
0.4899 −0.437
0.4916 −0.445
0.4934 −0.454
0.4952 −0.483
0.4971 −0.508
0.5010 −0.533
0.5029 −0.554
0.5047 −0.563
0.5066 −0.577
0.5084 −0.598
0.5121 −0.588
0.5140 −0.601
0.5160 −0.627
0.5180 −0.617
0.5201 −0.639
0.5244 −0.658
0.5263 −0.662
0.5281 −0.660
0.5299 −0.676
0.5318 −0.671
0.5357 −0.696
0.5376 −0.702
0.5395 −0.690
0.5416 −0.666
0.5437 −0.660
0.5479 −0.641
0.5499 −0.635
0.5517 −0.623
0.5536 −0.617
0.5554 −0.618
0.5591 −0.609
0.5610 −0.593
0.5628 −0.589

2436444 +
0.3253 +0.026
0.3281 +0.049
0.3306 +0.059
0.3361 +0.068
0.3387 +0.057
0.3410 +0.055
0.3469 +0.047
0.3497 +0.062
0.3529 +0.049
0.3612 +0.033
0.3638 +0.018
0.3704 +0.011
0.3781 −0.021
0.3808 −0.068
0.3871 −0.143
0.3940 −0.238
0.3968 −0.287
0.3996 −0.322
0.4055 −0.390
0.4076 −0.432
0.4097 −0.461
0.4145 −0.516
0.4165 −0.533
0.4186 −0.561
0.4235 −0.612
0.4256 −0.619
0.4277 −0.652
0.4318 −0.693
0.4339 −0.701
0.4360 −0.702
0.4402 −0.705
0.4426 −0.696
0.4454 −0.715
0.4510 −0.720
0.4532 −0.703
0.4557 −0.719
0.4586 −0.696

2436456 +
0.2745 −0.025
0.2762 −0.036
0.2778 −0.044
0.2811 −0.085
0.2824 −0.098
0.2837 −0.088
0.2872 −0.147
0.2884 −0.155
0.2897 −0.182
0.2924 −0.237
0.2937 −0.272
0.2950 −0.277
0.2977 −0.312
0.2990 −0.343
0.3001 −0.351
0.3030 −0.390
0.3042 −0.404
0.3055 −0.411
0.3081 −0.429
0.3093 −0.445
0.3105 −0.463
0.3133 −0.470
0.3145 −0.481
0.3157 −0.498
0.3184 −0.515
0.3196 −0.518
0.3208 −0.526
0.3236 −0.545
0.3247 −0.560
0.3259 −0.570
0.3286 −0.576
0.3298 −0.594
0.3311 −0.590
0.3337 −0.599
0.3351 −0.597
0.3365 −0.596
0.3395 −0.610
0.3407 −0.620
0.3420 −0.615
0.3449 −0.619
0.3462 −0.637
0.3474 −0.633
0.3500 −0.638
0.3512 −0.629
0.3525 −0.630
0.3551 −0.627
0.3564 −0.627
0.3578 −0.629
0.3608 −0.625

2436473 +
0.3129 −0.262
0.3171 −0.323
0.3194 −0.361
0.3213 −0.384
0.3255 −0.446
0.3273 −0.450

2436480 +
0.2376 −0.466
0.2393 −0.459
0.2407 −0.470
0.2482 −0.433
0.2507 −0.428
0.2544 −0.427
0.2556 −0.418
0.2570 −0.409
0.2602 −0.395
0.2614 −0.410
0.2625 −0.405
0.2657 −0.386
0.2670 −0.386
0.2683 −0.389
0.2719 −0.365
0.2733 −0.350
0.2748 −0.364
0.2785 −0.354
0.2798 −0.348
0.2813 −0.344
0.2852 −0.343
0.2865 −0.336
0.2881 −0.346
0.2920 −0.335
0.2933 −0.315
0.2982 −0.312
0.2996 −0.323
0.3010 −0.309
0.3042 −0.304
0.3058 −0.293

2436486 +
0.3194 +0.018
0.3212 −0.009
0.3252 −0.051
0.3341 −0.151
0.3353 −0.185
0.3384 −0.231
0.3396 −0.250
0.3408 −0.263
0.3420 −0.278

2436503 +
0.2859 +0.103
0.2878 +0.090
0.2897 +0.079
0.2938 +0.079
0.2956 +0.074
0.2974 +0.093
0.3014 +0.079
0.3036 +0.095
0.3054 +0.089
0.3095 +0.092
0.3114 +0.085
0.3134 +0.072
0.3164 +0.046
0.3177 +0.044
0.3190 +0.039
0.3220 +0.030
0.3232 +0.022
0.3245 +0.016
0.3277 +0.009
0.3289 −0.002
0.3304 −0.009
0.3330 −0.036
0.3342 −0.053
0.3356 −0.068
0.3383 −0.131
0.3395 −0.140
0.3408 −0.158
0.3434 −0.212
0.3446 −0.222
0.3459 −0.229
0.3487 −0.293
0.3500 −0.297
0.3514 −0.330
0.3544 −0.355
0.3558 −0.367
0.3571 −0.377
0.3606 −0.443
0.3620 −0.448
0.3641 −0.470
0.3660 −0.489
0.3681 −0.497
0.3719 −0.513
0.3736 −0.511
0.3750 −0.525
0.3780 −0.557
0.3794 −0.570
0.3808 −0.574
0.3846 −0.596
0.3864 −0.611
0.3885 −0.622
0.3919 −0.672
0.3935 −0.679

2436653 +
0.5795 −0.358
0.5816 −0.394
0.5892 −0.439
0.5911 −0.456
0.5934 −0.481
0.5956 −0.494
0.6010 −0.549

Table 3.

0.6029 −0.563
0.6047 −0.574
0.6093 −0.608
0.6127 −0.613
0.6194 −0.641
0.6212 −0.634
0.6235 −0.651

2436674 +
0.4443 −0.023
0.4492 −0.010
0.4513 −0.016
0.4554 −0.017
0.4575 −0.008
0.4596 −0.010
0.4662 −0.005
0.4683 −0.002
0.4728 +0.014
0.4749 +0.021
0.4770 +0.027
0.4811 +0.034
0.4832 +0.029
0.4853 +0.024
0.4895 +0.030
0.4916 +0.027
0.4936 +0.044
0.4978 +0.027
0.4999 +0.043
0.5020 +0.051
0.5068 +0.061
0.5124 −0.001
0.5145 −0.003
0.5177 −0.029
0.5191 −0.049
0.5205 −0.066
0.5237 −0.092
0.5251 −0.109
0.5265 −0.125
0.5299 −0.184
0.5314 −0.201
0.5328 −0.225
0.5362 −0.275
0.5376 −0.310
0.5390 −0.329
0.5425 −0.396
0.5453 −0.421
0.5501 −0.470
0.5522 −0.494
0.5550 −0.532
0.5568 −0.534
0.5585 −0.544
0.5619 −0.588
0.5633 −0.596
0.5647 −0.601
0.5682 −0.625
0.5696 −0.648
0.5710 −0.654
0.5744 −0.673
0.5765 −0.690
0.5809 −0.695
0.5823 −0.711
0.5862 −0.699

0.5876 −0.696
0.5890 −0.684
0.5918 −0.686
0.5932 −0.668
0.5946 −0.655
0.5976 −0.632
0.5990 −0.626

2436695 +
0.5261 −0.328
0.5310 −0.336
0.5389 −0.447
0.5409 −0.468
0.5492 −0.507
0.5546 −0.548
0.5639 −0.604
0.5657 −0.621
0.5676 −0.645
0.5724 −0.655

2436741 +
0.4067 +0.061
0.4104 +0.037
0.4118 +0.027
0.4130 +0.034
0.4143 +0.023
0.4175 +0.000
0.4192 −0.014
0.4208 −0.037
0.4222 −0.033
0.4264 −0.055
0.4278 −0.094
0.4292 −0.119
0.4340 −0.179
0.4354 −0.184
0.4368 −0.230
0.4382 −0.247
0.4417 −0.292
0.4431 −0.331
0.4444 −0.350
0.4507 −0.406
0.4521 −0.426
0.4535 −0.447
0.4549 −0.468
0.4587 −0.532
0.4604 −0.559
0.4618 −0.574
0.4632 −0.594
0.4668 −0.634
0.4684 −0.637
0.4694 −0.644
0.4708 −0.667
0.4746 −0.697
0.4764 −0.696
0.4778 −0.715
0.4792 −0.709
0.4848 −0.742
0.4862 −0.743
0.4876 −0.753
0.4914 −0.761
0.4932 −0.752
0.4969 −0.743

0.4973 −0.747
0.5043 −0.731
0.5081 −0.709
0.5095 −0.713
0.5161 −0.667
0.5175 −0.657
0.5189 −0.658
0.5203 −0.650

2436771 +
0.4971 −0.394
0.5012 −0.415
0.5033 −0.420
0.5075 −0.459
0.5096 −0.478
0.5116 −0.484
0.5297 −0.561
0.5318 −0.556
0.5359 −0.558
0.5380 −0.557
0.5401 −0.551

2436779 +
0.4428 −0.560
0.4442 −0.568
0.4483 −0.630
0.4504 −0.648
0.4553 −0.709
0.4567 −0.711
0.4581 −0.731
0.4615 −0.728
0.4629 −0.725
0.4643 −0.738
0.4706 −0.748
0.4726 −0.724

2436788 +
0.4643 −0.061
0.4657 −0.091
0.4697 −0.139
0.4708 −0.149
0.4718 −0.167
0.4752 −0.209
0.4764 −0.218
0.4778 −0.241
0.4812 −0.285
0.4826 −0.321
0.4840 −0.326
0.4882 −0.391
0.4907 −0.443
0.4928 −0.483
0.4991 −0.578
0.5011 −0.600
0.5039 −0.642
0.5092 −0.676
0.5114 −0.728
0.5159 −0.737
0.5206 −0.751
0.5227 −0.753
0.5247 −0.753
0.5298 −0.748
0.5319 −0.743

0.5340 −0.736
0.5389 −0.723
0.5414 −0.722
0.5435 −0.713
0.5484 −0.697
0.5507 −0.682
0.5523 −0.667

2436800 +
0.3747 −0.338
0.3784 −0.380
0.3817 −0.425
0.3831 −0.438
0.3845 −0.462
0.3884 −0.500
0.3898 −0.506
0.3912 −0.519
0.4051 −0.566
0.4065 −0.562
0.4078 −0.584
0.4108 −0.598
0.4122 −0.590
0.4136 −0.587
0.4166 −0.574
0.4196 −0.565
0.4233 −0.569
0.4247 −0.586
0.4261 −0.587
0.4291 −0.564
0.4305 −0.550
0.4347 −0.542
0.4361 −0.545
0.4375 −0.548
0.4412 −0.532
0.4433 −0.515
0.4449 −0.514
0.4488 −0.523
0.4504 −0.531
0.4518 −0.514
0.4546 −0.528
0.4560 −0.511

2436804 +
0.3690 −0.477
0.3702 −0.498
0.3717 −0.483
0.3731 −0.496
0.3757 −0.511
0.3770 −0.514
0.3781 −0.512
0.3791 −0.511
0.3820 −0.522
0.3832 −0.510
0.3843 −0.515
0.3854 −0.516
0.3877 −0.505
0.3896 −0.502
0.3907 −0.501
0.3919 −0.509
0.3946 −0.499
0.3956 −0.511
0.3967 −0.513

0.3981 −0.507
0.4005 −0.499
0.4056 −0.492
0.4072 −0.481

2436825 +
0.3229 −0.094
0.3240 −0.128
0.3264 −0.155
0.3276 −0.176
0.3336 −0.290
0.3346 −0.300
0.3355 −0.311
0.3375 −0.372
0.3384 −0.401
0.3393 −0.403
0.3413 −0.449
0.3423 −0.465
0.3432 −0.493
0.3449 −0.517
0.3457 −0.522
0.3466 −0.552
0.3484 −0.575
0.3525 −0.645
0.3534 −0.669
0.3552 −0.715
0.3570 −0.740
0.3592 −0.785
0.3608 −0.786
0.3617 −0.781
0.3636 −0.809
0.3655 −0.815
0.3679 −0.833
0.3692 −0.828
0.3702 −0.836
0.3723 −0.835
0.3734 −0.832
0.3744 −0.839
0.3763 −0.846
0.3774 −0.837
0.3783 −0.833
0.3800 −0.824

2437147 +
0.3339 −0.497
0.3385 −0.583
0.3399 −0.644
0.3436 −0.698
0.3450 −0.729
0.3464 −0.742
0.3491 −0.774
0.3502 −0.786
0.3516 −0.806
0.3545 −0.816
0.3556 −0.818
0.3666 −0.862
0.3679 −0.862
0.3691 −0.827
0.3725 −0.815
0.3735 −0.831
0.3749 −0.799

2437156 +
0.3814 −0.410
0.3845 −0.457
0.3911 −0.490
0.3946 −0.563
0.4046 −0.623
0.4088 −0.648
0.4140 −0.708
0.4178 −0.713
0.4206 −0.681
0.4255 −0.666
0.4282 −0.682
0.4303 −0.688
0.4355 −0.660
0.4380 −0.650
0.4400 −0.614
0.4445 −0.616
0.4466 −0.602
0.4532 −0.557
0.4553 −0.573
0.4574 −0.567

2437160 +
0.3593 −0.537
0.3612 −0.536
0.3630 −0.562
0.3667 −0.600
0.3683 −0.595
0.3700 −0.603
0.3734 −0.614
0.3748 −0.618
0.3801 −0.611
0.3815 −0.617
0.3831 −0.613
0.3864 −0.610
0.3878 −0.597
0.3894 −0.585
0.3933 −0.601
0.3961 −0.570
0.4007 −0.563
0.4206 −0.490
0.4220 −0.478
0.4234 −0.497

2437173 +
0.3828 −0.133
0.3858 −0.176
0.3887 −0.203
0.3986 −0.258
0.4014 −0.259
0.4042 −0.277
0.4139 −0.321
0.4201 −0.347
0.4271 −0.380
0.4299 −0.393
0.4326 −0.415
0.4417 −0.461
0.4458 −0.489
0.4528 −0.523
0.4555 −0.508
0.4583 −0.543
0.4653 −0.546
0.4680 −0.546
0.4708 −0.533
0.4799 −0.538
0.4903 −0.510
0.4930 −0.496
0.5014 −0.509
0.5042 −0.492

2437477 +
0.3874 −0.418
0.3888 −0.415
0.3902 −0.426
0.3976 −0.390
0.4002 −0.380
0.4027 −0.376
0.4082 −0.351
0.4171 −0.336
0.4190 −0.343
0.4240 −0.327
0.4256 −0.320
0.4276 −0.328
0.4318 −0.301
0.4336 −0.302
0.4352 −0.301
0.4390 −0.298
0.4409 −0.290
0.4428 −0.286
0.4469 −0.283
0.4487 −0.280
0.4510 −0.272
0.4555 −0.273
0.4570 −0.266
0.4590 −0.258
0.4642 −0.249
0.4659 −0.241
0.4680 −0.226

2437479 +
0.4883 −0.079
0.4897 −0.090
0.4913 −0.125
0.4951 −0.161
0.4969 −0.171
0.5061 −0.287
0.5075 −0.320
0.5102 −0.355
0.5116 −0.385
0.5130 −0.416
0.5158 −0.443
0.5172 −0.485
0.5186 −0.478
0.5214 −0.544
0.5227 −0.564
0.5241 −0.575
0.5283 −0.600
0.5297 −0.612
0.5332 −0.636
0.5356 −0.637
0.5377 −0.656
0.5399 −0.666
0.5417 −0.692
0.5431 −0.693
0.5460 −0.688
0.5473 −0.688
0.5482 −0.692
0.5505 −0.694
0.5519 −0.696
0.5531 −0.697
0.5552 −0.705
0.5563 −0.698
0.5575 −0.705
0.5598 −0.693

2437484 +
0.3973 −0.012
0.3987 −0.005
0.4054 −0.037
0.4068 −0.032

2437487 +
0.4871 −0.562
0.4922 −0.570
0.4936 −0.566
0.5012 −0.547
0.5042 −0.557
0.5063 −0.533
0.5107 −0.540
0.5130 −0.538
0.5146 −0.540
0.5188 −0.522
0.5204 −0.500
0.5218 −0.492
0.5347 −0.472

2437495 +
0.3807 −0.361
0.3821 −0.355
0.3835 −0.366
0.3867 −0.390
0.3886 −0.410
0.3900 −0.401
0.3932 −0.430
0.3948 −0.429
0.3964 −0.424
0.4004 −0.426
0.4029 −0.413
0.4066 −0.419
0.4082 −0.421
0.4096 −0.426
0.4143 −0.460
0.4156 −0.453
0.4191 −0.463
0.4207 −0.464
0.4226 −0.457
0.4268 −0.464
0.4282 −0.459
0.4298 −0.460
0.4328 −0.471
0.4349 −0.463
0.4362 −0.472
0.4395 −0.463
0.4413 −0.475
0.4427 −0.469
0.4467 −0.474
0.4483 −0.471
0.4497 −0.466
0.4532 −0.450

2437776 +
0.4912 +0.001
0.4936 +0.012
0.4967 +0.014
0.4991 +0.011
0.5047 −0.003
0.5071 −0.008
0.5092 −0.005
0.5116 −0.014
0.5231 −0.051
0.5261 −0.057
0.5297 −0.085
0.5327 −0.107
0.5384 −0.133
0.5411 −0.162
0.5435 −0.177
0.5460 −0.199
0.5505 −0.292
0.5529 −0.329
0.5575 −0.394
0.5623 −0.430
0.5647 −0.446
0.5668 −0.454
0.5696 −0.463
0.5752 −0.465
0.5780 −0.471
0.5801 −0.462
0.5829 −0.476
0.5884 −0.477
0.5908 −0.470
0.5932 −0.467
0.5958 −0.460
0.6022 −0.466

2437780 +
0.4470 +0.043
0.4506 +0.040
0.4527 +0.018
0.4555 +0.040
0.4611 +0.021
0.4652 +0.031
0.4673 +0.042
0.4743 +0.016
0.4774 +0.006
0.4805 −0.018
0.4868 −0.027
0.4888 −0.039
0.4909 −0.049
0.4930 −0.062
0.4988 −0.084
0.5009 −0.100
0.5030 −0.118
0.5051 −0.142
0.5106 −0.214
0.5127 −0.234
0.5148 −0.247
0.5169 −0.253
0.5224 −0.329
0.5246 −0.356
0.5266 −0.359
0.5287 −0.379
0.5335 −0.409
0.5356 −0.425
0.5377 −0.409
0.5398 −0.429
0.5736 −0.423
0.5755 −0.420
0.5776 −0.418
0.5812 −0.417
0.5867 −0.416
0.5888 −0.414
0.5922 −0.410
0.6014 −0.367

2437809 +
0.3718 −0.026
0.3738 −0.056
0.3759 −0.033
0.3808 −0.036
0.3829 −0.048
0.3849 −0.037
0.3870 −0.024
0.3891 −0.041
0.3933 −0.028
0.3954 −0.019
0.3974 −0.028
0.4002 −0.041
0.4030 −0.050
0.4092 −0.090
0.4113 −0.110
0.4134 −0.095

2437835 +
0.5092 +0.063
0.5124 +0.022
0.5145 −0.007
0.5211 −0.109
0.5242 −0.161
0.5263 −0.212
0.5291 −0.260
0.5339 −0.353
0.5360 −0.435
0.5381 −0.506
0.5402 −0.544
0.5450 −0.622
0.5471 −0.686
0.5492 −0.705
0.5513 −0.768
0.5541 −0.818
0.5596 −0.868
0.5652 −0.873
0.5673 −0.882
0.5693 −0.873

2437839 +
0.4414 +0.064
0.4435 +0.092
0.4456 +0.076
0.4491 +0.059
0.4512 +0.083

0.4567 +0.065
0.4602 +0.052
0.4623 +0.047
0.4644 +0.042
0.4664 +0.019
0.4727 −0.052
0.4748 −0.055
0.4769 −0.064
0.4789 −0.100
0.4824 −0.128
0.4845 −0.172
0.4866 −0.200
0.4887 −0.230
0.4908 −0.300
0.4949 −0.402
0.4970 −0.446
0.4991 −0.506
0.5012 −0.541
0.5046 −0.617
0.5067 −0.687
0.5095 −0.718
0.5123 −0.767
0.5150 −0.803
0.5213 −0.875
0.5241 −0.890
0.5262 −0.899
0.5282 −0.895
0.5331 −0.890
0.5359 −0.888
0.5380 −0.880
0.5408 −0.873
0.5435 −0.869

2437855 +
0.3903 −0.537
0.3954 −0.530
0.4007 −0.490
0.4021 −0.488
0.4049 −0.482
0.4060 −0.487
0.4076 −0.487
0.4107 −0.471
0.4132 −0.466
0.4151 −0.452
0.4167 −0.441
0.4183 −0.443
0.4262 −0.425
0.4280 −0.437
0.4298 −0.428
0.4317 −0.415
0.4361 −0.410
0.4401 −0.400
0.4422 −0.391
0.4438 −0.391
0.4452 −0.387
0.4470 −0.393
0.4486 −0.382
0.4530 −0.369
0.4556 −0.367
0.4572 −0.359
0.4586 −0.359
0.4600 −0.353

0.4611 −0.364

2437856 +
0.4452 −0.012
0.4497 −0.055
0.4516 −0.052
0.4538 −0.082
0.4608 −0.156
0.4645 −0.180
0.4744 −0.311
0.4764 −0.331
0.4808 −0.381
0.4826 −0.405
0.4844 −0.437

2437872 +
0.3489 +0.047
0.3504 +0.055
0.3564 +0.004
0.3577 −0.008
0.3591 −0.015
0.3619 −0.023
0.3636 −0.056
0.3652 −0.058
0.3683 −0.085
0.3705 −0.116
0.3725 −0.137
0.3762 −0.162
0.3778 −0.173
0.3795 −0.195
0.3825 −0.238
0.3839 −0.273
0.3855 −0.295
0.3894 −0.369
0.3912 −0.390
0.3929 −0.425
0.3968 −0.502
0.3984 −0.535
0.4000 −0.550
0.4040 −0.615
0.4066 −0.663
0.4099 −0.688
0.4118 −0.708
0.4134 −0.738
0.4168 −0.766
0.4185 −0.775
0.4202 −0.779
0.4236 −0.784
0.4256 −0.802
0.4277 −0.789
0.4320 −0.786
0.4337 −0.792
0.4355 −0.793
0.4391 −0.777
0.4412 −0.766
0.4432 −0.758
0.4470 −0.732
0.4488 −0.731
0.4512 −0.729
0.4548 −0.713
0.4567 −0.697
0.4586 −0.693

0.4626 −0.668
0.4646 −0.669
0.4665 −0.661
0.4700 −0.647
0.4717 −0.633
0.4734 −0.633

2437877 +
0.3959 +0.061
0.4000 +0.062
0.4021 +0.059
0.4042 +0.063
0.4063 +0.060
0.4113 +0.061
0.4126 +0.061
0.4137 +0.062
0.4147 +0.065
0.4158 +0.072
0.4206 +0.068
0.4227 +0.087
0.4248 +0.084
0.4269 +0.095
0.4324 +0.097
0.4345 +0.115
0.4366 +0.108
0.4387 +0.112
0.4429 +0.129
0.4449 +0.125
0.4470 +0.118
0.4491 +0.104
0.4547 +0.089
0.4568 +0.075
0.4588 +0.057
0.4609 +0.041
0.4644 −0.037
0.4658 −0.056
0.4672 −0.086
0.4686 −0.103
0.4713 −0.176
0.4727 −0.207
0.4741 −0.235
0.4755 −0.261
0.4769 −0.284
0.4820 −0.413
0.4834 −0.441
0.4848 −0.466
0.4861 −0.510
0.4885 −0.584
0.4898 −0.619
0.4912 −0.653
0.4926 −0.675
0.4940 −0.704
0.4968 −0.770
0.4982 −0.772
0.4996 −0.803
0.5010 −0.817
0.5040 −0.847
0.5054 −0.842
0.5068 −0.871
0.5081 −0.886
0.5095 −0.890
0.5125 −0.899

0.5139 −0.892
0.5153 −0.897
0.5167 −0.918
0.5197 −0.910
0.5211 −0.907
0.5225 −0.912
0.5239 −0.898
0.5253 −0.902
0.5283 −0.905
0.5297 −0.899
0.5311 −0.893
0.5324 −0.893
0.5403 −0.811
0.5452 −0.787
0.5470 −0.759
0.5484 −0.751
0.5510 −0.740
0.5524 −0.738
0.5537 −0.721
0.5551 −0.705
0.5565 −0.713
0.5593 −0.720
0.5607 −0.700
0.5621 −0.702
0.5635 −0.698
0.5658 −0.671
0.5672 −0.666
0.5686 −0.643
0.5699 −0.646
0.5713 −0.637
0.5741 −0.597
0.5755 −0.581
0.5769 −0.595
0.5783 −0.590

2437881 +
0.4429 −0.345
0.4464 −0.438
0.4491 −0.483
0.4523 −0.597
0.4596 −0.759
0.4616 −0.798
0.4637 −0.835
0.4662 −0.868
0.4738 −0.930
0.4766 −0.931
0.4787 −0.917
0.4811 −0.892
0.4908 −0.848
0.4936 −0.823
0.4957 −0.808
0.4978 −0.797
0.5099 −0.724
0.5137 −0.707
0.5186 −0.678

2437885 +
0.3831 −0.081
0.3842 −0.099
0.3856 −0.083
0.3870 −0.128
0.3908 −0.155

0.3942 −0.222
0.3991 −0.335
0.4008 −0.353
0.4019 −0.381
0.4071 −0.504
0.4082 −0.503
0.4116 −0.560
0.4133 −0.618
0.4151 −0.667

2437890 +
0.4726 −0.072
0.4764 −0.114
0.4785 −0.132
0.4848 −0.178
0.4875 −0.230
0.4896 −0.275
0.4931 −0.344
0.5063 −0.487
0.5084 −0.533
0.5104 −0.575
0.5132 −0.602
0.5181 −0.624
0.5202 −0.630
0.5250 −0.658
0.5271 −0.665
0.5320 −0.661
0.5341 −0.662
0.5361 −0.676
0.5382 −0.683
0.5403 −0.680
0.5445 −0.653
0.5466 −0.645
0.5486 −0.650
0.5528 −0.616
0.5573 −0.625
0.5594 −0.591
0.5615 −0.583
0.5636 −0.597
0.5657 −0.602
0.5698 −0.560

2437897 +
0.3114 −0.481
0.3126 −0.477
0.3145 −0.477
0.3217 −0.472
0.3254 −0.488
0.3329 −0.472
0.3347 −0.478
0.3361 −0.475
0.3391 −0.465
0.3410 −0.464
0.3426 −0.472
0.3460 −0.481
0.3474 −0.481
0.3491 −0.475
0.3527 −0.481
0.3543 −0.476
0.3558 −0.468
0.3590 −0.462
0.3609 −0.453

Table 3.

0.3627 −0.460
0.3670 −0.440
0.3687 −0.441
0.3706 −0.440
0.3740 −0.448
0.3757 −0.446
0.3777 −0.437
0.3818 −0.426
0.3834 −0.415
0.3854 −0.420
0.3893 −0.398

2437898 +
0.3673 +0.019
0.3693 +0.005
0.3710 +0.022
0.3724 +0.016
0.3737 +0.016
0.3763 +0.002
0.3781 +0.000
0.3795 +0.003
0.3848 +0.028
0.3862 +0.005
0.3876 +0.012
0.3909 +0.012
0.3923 +0.008
0.3936 +0.009
0.3974 +0.009
0.3987 −0.008
0.4001 −0.013
0.4048 −0.034
0.4062 −0.055
0.4075 −0.079
0.4112 −0.103
0.4126 −0.107
0.4142 −0.126
0.4189 −0.170
0.4203 −0.176
0.4217 −0.211
0.4256 −0.265
0.4270 −0.269
0.4323 −0.336
0.4374 −0.381
0.4388 −0.398
0.4402 −0.395
0.4432 −0.406
0.4446 −0.406
0.4460 −0.405
0.4492 −0.416
0.4508 −0.408
0.4522 −0.415
0.4554 −0.431
0.4568 −0.432
0.4619 −0.463
0.4633 −0.456
0.4647 −0.466
0.4675 −0.449
0.4689 −0.454
0.4710 −0.448
0.4749 −0.439
0.4763 −0.437
0.4777 −0.449

0.4814 −0.444
0.4828 −0.446
0.4842 −0.441
0.4876 −0.431
0.4890 −0.443
0.4904 −0.419
0.4936 −0.415
0.4957 −0.428
0.4971 −0.418
0.5015 −0.440
0.5046 −0.432
0.5098 −0.432
0.5126 −0.416
0.5156 −0.404
0.5170 −0.406
0.5184 −0.414
0.5214 −0.402
0.5228 −0.393

2438207 +
0.3547 +0.031
0.3679 −0.013
0.3700 −0.030
0.3762 −0.073
0.3776 −0.091
0.3832 −0.131
0.3846 −0.173
0.3869 −0.210
0.3901 −0.261
0.3915 −0.297
0.3929 −0.312
0.3961 −0.354
0.3975 −0.379
0.3984 −0.387
0.4008 −0.411
0.4017 −0.415
0.4027 −0.437
0.4052 −0.452
0.4061 −0.460
0.4072 −0.470
0.4098 −0.506
0.4109 −0.509
0.4121 −0.529
0.4149 −0.536
0.4158 −0.555
0.4169 −0.568
0.4203 −0.590
0.4216 −0.609
0.4225 −0.611
0.4255 −0.637
0.4269 −0.630
0.4283 −0.631
0.4311 −0.629
0.4325 −0.640
0.4339 −0.645
0.4366 −0.646
0.4380 −0.643
0.4397 −0.652
0.4429 −0.643
0.4450 −0.661
0.4464 −0.652
0.4491 −0.642

0.4505 −0.643
0.4519 −0.637
0.4554 −0.627
0.4568 −0.623
0.4585 −0.621
0.4616 −0.619
0.4630 −0.619
0.4644 −0.606
0.4679 −0.595
0.4700 −0.605
0.4721 −0.579

2438216 +
0.4050 +0.010
0.4117 +0.029
0.4136 +0.034
0.4179 +0.046
0.4198 +0.034
0.4249 +0.010
0.4288 +0.011
0.4334 −0.039
0.4360 −0.064
0.4410 −0.152
0.4422 −0.170
0.4466 −0.210
0.4504 −0.259
0.4516 −0.260
0.4528 −0.263
0.4560 −0.306
0.4577 −0.327
0.4586 −0.327
0.4596 −0.343
0.4621 −0.372
0.4631 −0.383
0.4653 −0.422
0.4677 −0.457
0.4689 −0.461
0.4699 −0.459
0.4712 −0.459
0.4740 −0.458
0.4773 −0.466
0.4786 −0.475
0.4814 −0.496
0.4828 −0.502
0.4840 −0.515
0.4862 −0.511
0.4894 −0.558
0.4908 −0.565
0.4926 −0.563
0.4938 −0.568
0.4973 −0.589
0.5011 −0.590
0.5058 −0.587
0.5071 −0.570
0.5086 −0.562
0.5131 −0.554
0.5148 −0.557
0.5165 −0.560
0.5183 −0.556
0.5214 −0.553
0.5227 −0.557
0.5237 −0.557

0.5249 −0.554
0.5277 −0.567
0.5294 −0.554
0.5311 −0.562
0.5353 −0.546
0.5367 −0.538
0.5383 −0.548
0.5398 −0.538
0.5427 −0.521
0.5439 −0.515
0.5459 −0.506
0.5509 −0.500
0.5521 −0.480
0.5532 −0.485

2438220 +
0.4030 −0.049
0.4076 −0.094
0.4130 −0.183
0.4147 −0.196
0.4207 −0.273
0.4246 −0.293
0.4298 −0.300
0.4314 −0.305
0.4350 −0.336
0.4366 −0.343
0.4421 −0.392
0.4462 −0.434
0.4487 −0.470
0.4541 −0.497
0.4581 −0.523
0.4597 −0.532
0.4666 −0.566
0.4709 −0.563
0.4730 −0.565
0.4784 −0.584
0.4806 −0.604
0.4866 −0.607
0.4886 −0.583
0.4925 −0.598
0.4946 −0.584
0.4990 −0.587
0.5016 −0.593
0.5059 −0.570
0.5076 −0.572
0.5119 −0.564
0.5141 −0.571
0.5182 −0.530
0.5200 −0.522

2438229 +
0.4757 +0.053
0.4771 +0.033
0.4804 +0.001
0.4818 −0.014
0.4833 −0.030
0.4863 −0.062
0.4877 −0.095
0.4890 −0.099
0.4919 −0.130
0.4931 −0.140
0.4944 −0.168

0.4972 −0.218
0.4984 −0.242
0.4998 −0.240
0.5028 −0.289
0.5040 −0.301
0.5052 −0.302
0.5076 −0.345
0.5090 −0.387
0.5135 −0.427
0.5149 −0.425
0.5168 −0.448
0.5196 −0.482
0.5210 −0.485
0.5222 −0.505
0.5253 −0.543
0.5266 −0.541
0.5278 −0.561
0.5304 −0.574
0.5318 −0.580
0.5333 −0.583
0.5366 −0.619
0.5387 −0.636
0.5403 −0.644
0.5439 −0.660
0.5456 −0.681
0.5474 −0.677
0.5503 −0.676
0.5522 −0.681
0.5542 −0.675
0.5575 −0.690
0.5592 −0.692
0.5608 −0.700
0.5646 −0.681
0.5660 −0.678
0.5675 −0.691
0.5710 −0.676
0.5722 −0.660
0.5733 −0.657
0.5762 −0.664
0.5776 −0.648
0.5790 −0.645
0.5824 −0.639

2438233 +
0.4809 −0.372
0.4836 −0.400
0.4906 −0.496
0.5079 −0.631
0.5131 −0.661
0.5200 −0.662
0.5274 −0.678
0.5417 −0.636
0.5482 −0.589

2438241 +
0.4241 −0.515
0.4282 −0.547
0.4307 −0.581
0.4323 −0.578
0.4383 −0.629
0.4404 −0.634
0.4418 −0.649

0.4459 −0.669
0.4498 −0.653
0.4574 −0.658
0.4598 −0.685
0.4660 −0.673
0.4680 −0.680
0.4708 −0.663
0.4771 −0.645
0.4802 −0.641
0.4875 −0.613
0.4892 −0.598
0.4910 −0.591
0.4958 −0.567
0.4976 −0.572
0.4990 −0.562
0.5021 −0.551

2438258 +
0.3490 +0.038
0.3501 +0.030
0.3532 +0.033
0.3542 +0.039
0.3553 +0.041
0.3581 +0.040
0.3595 +0.029
0.3608 +0.036
0.3650 +0.018
0.3668 +0.019
0.3678 +0.019
0.3723 +0.015
0.3737 +0.012
0.3747 +0.022
0.3775 −0.021
0.3786 −0.020
0.3796 −0.023
0.3827 −0.044
0.3838 −0.058
0.3848 −0.066
0.3876 −0.090
0.3890 −0.108
0.3900 −0.107
0.3938 −0.151
0.3949 −0.173
0.3959 −0.193
0.3984 −0.210
0.3994 −0.227
0.4004 −0.229
0.4036 −0.266
0.4049 −0.284
0.4063 −0.308
0.4095 −0.336
0.4108 −0.356
0.4126 −0.375
0.4154 −0.376
0.4168 −0.395
0.4178 −0.411
0.4206 −0.431
0.4216 −0.435
0.4230 −0.461
0.4258 −0.469
0.4268 −0.478
0.4279 −0.481

0.4303 −0.516
0.4317 −0.527
0.4331 −0.543
0.4365 −0.546
0.4379 −0.568
0.4393 −0.573
0.4421 −0.598
0.4431 −0.609
0.4442 −0.612
0.4471 −0.612
0.4483 −0.624
0.4497 −0.620
0.4526 −0.626
0.4542 −0.634
0.4560 −0.630
0.4588 −0.634
0.4605 −0.630
0.4615 −0.625
0.4643 −0.618
0.4657 −0.608
0.4674 −0.612
0.4706 −0.611
0.4720 −0.604
0.4734 −0.604
0.4775 −0.582
0.4786 −0.581
0.4796 −0.575

2438274 +
0.2995 −0.422
0.3058 −0.503
0.3134 −0.590
0.3155 −0.622
0.3214 −0.651
0.3238 −0.653
0.3284 −0.675
0.3308 −0.673
0.3374 −0.699
0.3443 −0.683
0.3520 −0.658
0.3547 −0.645
0.3610 −0.638
0.3638 −0.632
0.3726 −0.598
0.3822 −0.585
0.3853 −0.572
0.3919 −0.533
0.3936 −0.538
0.3978 −0.512
0.3995 −0.515

2438275 +
0.3838 +0.063
0.3859 +0.047
0.3901 +0.032
0.3922 −0.002
0.3963 −0.012
0.3984 −0.027

2438283 +
0.3911 −0.565
0.3942 −0.591

0.3960 −0.598
0.4005 −0.635
0.4015 −0.643
0.4061 −0.637
0.4109 −0.659
0.4123 −0.654
0.4151 −0.653
0.4165 −0.660
0.4196 −0.641
0.4206 −0.650
0.4234 −0.656
0.4248 −0.654
0.4276 −0.644
0.4293 −0.645
0.4331 −0.619
0.4345 −0.620
0.4376 −0.616

2438287 +
0.2921 +0.006
0.2970 −0.012
0.2987 −0.014
0.3003 −0.035
0.3041 −0.080
0.3064 −0.117
0.3107 −0.169
0.3144 −0.234
0.3178 −0.246
0.3196 −0.268
0.3243 −0.343
0.3258 −0.358
0.3270 −0.384
0.3312 −0.426
0.3336 −0.449
0.3376 −0.486
0.3390 −0.488
0.3411 −0.522
0.3453 −0.543
0.3463 −0.549
0.3527 −0.577
0.3539 −0.583
0.3555 −0.594
0.3588 −0.609
0.3606 −0.595
0.3621 −0.599
0.3659 −0.622
0.3673 −0.619
0.3689 −0.620
0.3732 −0.628
0.3748 −0.622
0.3798 −0.623
0.3816 −0.635
0.3850 −0.633
0.3923 −0.616
0.3935 −0.622
0.4031 −0.601
0.4052 −0.599
0.4062 −0.589
0.4109 −0.583
0.4119 −0.584
0.4140 −0.567
0.4150 −0.562

0.4160 −0.549
0.4181 −0.549
0.4192 −0.545
0.4203 −0.544

2438316 +
0.2452 −0.416
0.2473 −0.455
0.2515 −0.491
0.2536 −0.505
0.2560 −0.525
0.2612 −0.552
0.2633 −0.562
0.2658 −0.586
0.2702 −0.607
0.2730 −0.620
0.2751 −0.640
0.2785 −0.643
0.2806 −0.643
0.2827 −0.644
0.2872 −0.645
0.2896 −0.649
0.2917 −0.633
0.2959 −0.636
0.2983 −0.622
0.3004 −0.620
0.3046 −0.609
0.3067 −0.611
0.3136 −0.585
0.3181 −0.572

2438580 +
0.3651 +0.019
0.3665 +0.027
0.3707 −0.024
0.3728 −0.047
0.3749 −0.068
0.3790 −0.163
0.3811 −0.175
0.3832 −0.212
0.3874 −0.321
0.3894 −0.350
0.3915 −0.375
0.3957 −0.484
0.3978 −0.508
0.3999 −0.541
0.4040 −0.603
0.4061 −0.629
0.4082 −0.677
0.4124 −0.734
0.4144 −0.746
0.4165 −0.754
0.4207 −0.781
0.4228 −0.808
0.4249 −0.793
0.4290 −0.812
0.4311 −0.821
0.4332 −0.802
0.4374 −0.805
0.4394 −0.789
0.4415 −0.776
0.4457 −0.771

0.4478 −0.772
0.4499 −0.767
0.4540 −0.735
0.4561 −0.727
0.4582 −0.717
0.4624 −0.688
0.4644 −0.682
0.4665 −0.669

2438584 +
0.3691 −0.505
0.3733 −0.577
0.3753 −0.622
0.3774 −0.659
0.3816 −0.704
0.3837 −0.725
0.3858 −0.750
0.3910 −0.772
0.3941 −0.773
0.4003 −0.787
0.4059 −0.783
0.4080 −0.774

2438593 +
0.4480 −0.679
0.4497 −0.671
0.4511 −0.676
0.4556 −0.684
0.4577 −0.678
0.4626 −0.674
0.4643 −0.661
0.4688 −0.625
0.4705 −0.615
0.4744 −0.608
0.4761 −0.603
0.4803 −0.596
0.4816 −0.585
0.4886 −0.564
0.4924 −0.557
0.4948 −0.543
0.4990 −0.536
0.5032 −0.496

2438597 +
0.3486 −0.034
0.3535 −0.073
0.3555 −0.081
0.3589 −0.137
0.3628 −0.160
0.3641 −0.173
0.3687 −0.255
0.3760 −0.334
0.3778 −0.353
0.3823 −0.417
0.3879 −0.475
0.3896 −0.476
0.3948 −0.526
0.3965 −0.560
0.4003 −0.589
0.4014 −0.616

2438598 +

Table 3.

0.5062 −0.268
0.5080 −0.286
0.5162 −0.383
0.5176 −0.404
0.5227 −0.452
0.5277 −0.515
0.5312 −0.526
0.5329 −0.543
0.5364 −0.564
0.5378 −0.554
0.5413 −0.579
0.5482 −0.588
0.5520 −0.594
0.5583 −0.574
0.5604 −0.564
0.5641 −0.541

2438602 +
0.4722 −0.195
0.4743 −0.252
0.4797 −0.345
0.4847 −0.424
0.4864 −0.433
0.4906 −0.450
0.4927 −0.463
0.4972 −0.473
0.4989 −0.478
0.5059 −0.522
0.5184 −0.534
0.5204 −0.543
0.5272 −0.540
0.5329 −0.548
0.5400 −0.526
0.5526 −0.484
0.5561 −0.465

2438614 +
0.3666 +0.013
0.3718 −0.004
0.3800 −0.049
0.3821 −0.056
0.3853 −0.100
0.3905 −0.161
0.3926 −0.177
0.3968 −0.229
0.3988 −0.243
0.4030 −0.278
0.4051 −0.305
0.4093 −0.339
0.4168 −0.414
0.4218 −0.450
0.4280 −0.513
0.4318 −0.544
0.4336 −0.564
0.4384 −0.610
0.4447 −0.645
0.4494 −0.685
0.4534 −0.691
0.4551 −0.690
0.4600 −0.704
0.4644 −0.686
0.4690 −0.680
0.4711 −0.666
0.4745 −0.648

2438622 +
0.3267 −0.168
0.3284 −0.198
0.3350 −0.342
0.3371 −0.389
0.3413 −0.481
0.3434 −0.543
0.3475 −0.636
0.3496 −0.668
0.3534 −0.756
0.3552 −0.790
0.3604 −0.849
0.3621 −0.849
0.3663 −0.872
0.3684 −0.860
0.3732 −0.846
0.3753 −0.841
0.3809 −0.826
0.3830 −0.809
0.3927 −0.768
0.3951 −0.757
0.4003 −0.744
0.4027 −0.721

2438627 +
0.3790 +0.057
0.3811 +0.056
0.3853 +0.047
0.3874 +0.050
0.3936 +0.033
0.3978 +0.047
0.3998 +0.037
0.4047 +0.018
0.4068 −0.029
0.4110 −0.063
0.4130 −0.088
0.4172 −0.137
0.4193 −0.169
0.4235 −0.277
0.4252 −0.334
0.4287 −0.435
0.4304 −0.469
0.4342 −0.539
0.4363 −0.559
0.4405 −0.656
0.4422 −0.677
0.4457 −0.745
0.4478 −0.771
0.4519 −0.801
0.4540 −0.813
0.4603 −0.820
0.4644 −0.824
0.4665 −0.821
0.4707 −0.816
0.4728 −0.808
0.4766 −0.782
0.4787 −0.788
0.4825 −0.754
0.4846 −0.759
0.4884 −0.736
0.4901 −0.711

2438631 +
0.3648 −0.017
0.3662 −0.018
0.3676 −0.028
0.3686 −0.060
0.3704 −0.089
0.3732 −0.127
0.3745 −0.126
0.3787 −0.189
0.3839 −0.277
0.3853 −0.320
0.3895 −0.391
0.3909 −0.400
0.3919 −0.408
0.3954 −0.482
0.3971 −0.506
0.3982 −0.508
0.4013 −0.536
0.4023 −0.550
0.4037 −0.572
0.4065 −0.596
0.4079 −0.604
0.4093 −0.609
0.4120 −0.644
0.4155 −0.673
0.4193 −0.717
0.4214 −0.726
0.4225 −0.726
0.4259 −0.751
0.4270 −0.747
0.4284 −0.758
0.4325 −0.742
0.4353 −0.731
0.4398 −0.733
0.4409 −0.718
0.4426 −0.707
0.4461 −0.718
0.4492 −0.692
0.4523 −0.671
0.4537 −0.669
0.4554 −0.661
0.4586 −0.645
0.4596 −0.652
0.4613 −0.641
0.4641 −0.620
0.4652 −0.609
0.4666 −0.605
0.4718 −0.584

2438635 +
0.3475 −0.295
0.3498 −0.332
0.3515 −0.342
0.3526 −0.368
0.3540 −0.364
0.3575 −0.429
0.3589 −0.446
0.3620 −0.481
0.3644 −0.505
0.3675 −0.515
0.3696 −0.546
0.3738 −0.580
0.3752 −0.601
0.3804 −0.651
0.3825 −0.663
0.3873 −0.676
0.3894 −0.700
0.3911 −0.702
0.3974 −0.674
0.4043 −0.664
0.4123 −0.626
0.4155 −0.606
0.4168 −0.603
0.4200 −0.584
0.4214 −0.597
0.4339 −0.505
0.4356 −0.518
0.4370 −0.510

2438643 +
0.2926 −0.382
0.2946 −0.393
0.2957 −0.410
0.2981 −0.414
0.2992 −0.424
0.3002 −0.445
0.3023 −0.459
0.3044 −0.458
0.3064 −0.461
0.3075 −0.458
0.3085 −0.468
0.3106 −0.449
0.3116 −0.454
0.3127 −0.452
0.3148 −0.466
0.3158 −0.474
0.3169 −0.475
0.3189 −0.461
0.3200 −0.465
0.3210 −0.466
0.3231 −0.470
0.3242 −0.479
0.3252 −0.484
0.3273 −0.477
0.3283 −0.492
0.3294 −0.491
0.3314 −0.479
0.3325 −0.492
0.3335 −0.492
0.3356 −0.501
0.3366 −0.503
0.3377 −0.500
0.3398 −0.501
0.3439 −0.497
0.3450 −0.498
0.3481 −0.494
0.3606 −0.485
0.3617 −0.489
0.3637 −0.494
0.3648 −0.499
0.3658 −0.484
0.3679 −0.489
0.3689 −0.492
0.3700 −0.477
0.3724 −0.462
0.3735 −0.465
0.3745 −0.464
0.3776 −0.453
0.3787 −0.449
0.3808 −0.453
0.3818 −0.449
0.3828 −0.450
0.3849 −0.455
0.3865 −0.441
0.3891 −0.419
0.3901 −0.415
0.3912 −0.410
0.3932 −0.411
0.3943 −0.415
0.3953 −0.414
0.3985 −0.404
0.3995 −0.411

2438660 +
0.2783 +0.101
0.2804 +0.099
0.2868 +0.073
0.2925 +0.013
0.2942 +0.001
0.2984 −0.023
0.3002 −0.040
0.3054 −0.145
0.3074 −0.161
0.3123 −0.257
0.3137 −0.313
0.3196 −0.429
0.3272 −0.543
0.3307 −0.607
0.3328 −0.613
0.3359 −0.650
0.3376 −0.669
0.3411 −0.709
0.3429 −0.725
0.3481 −0.762
0.3498 −0.771
0.3540 −0.774
0.3550 −0.768
0.3613 −0.765
0.3654 −0.776
0.3668 −0.769
0.3699 −0.766
0.3713 −0.762
0.3731 −0.752

2438665 +
0.3472 +0.052
0.3493 +0.065
0.3549 +0.074
0.3590 +0.078
0.3604 +0.081
0.3646 +0.074
0.3660 +0.092
0.3695 +0.078

0.3712 +0.071
0.3759 +0.071
0.3813 +0.067
0.3834 +0.038
0.3917 −0.016
0.3959 −0.053
0.4002 −0.117
0.4066 −0.202
0.4084 −0.229
0.4125 −0.306
0.4139 −0.357
0.4195 −0.459
0.4209 −0.492
0.4254 −0.576
0.4271 −0.613
0.4288 −0.647
0.4323 −0.710
0.4344 −0.735
0.4393 −0.799
0.4413 −0.809
0.4472 −0.847
0.4511 −0.863
0.4549 −0.876
0.4566 −0.863
0.4618 −0.850

2438669 +
0.3107 +0.051
0.3135 +0.066
0.3190 +0.079
0.3211 +0.086
0.3267 +0.092
0.3295 +0.086
0.3364 +0.081
0.3454 +0.070
0.3514 −0.033
0.3614 −0.150
0.3670 −0.239
0.3788 −0.440
0.3809 −0.505
0.3899 −0.678
0.3961 −0.773
0.3996 −0.804
0.4062 −0.830
0.4170 −0.820
0.4218 −0.773
0.4239 −0.770
0.4281 −0.747
0.4302 −0.708

2438673 +
0.2791 +0.068
0.2818 +0.064
0.2867 +0.051
0.2888 +0.057
0.2936 +0.042
0.2957 +0.035
0.2999 +0.003
0.3020 −0.008
0.3061 −0.018
0.3138 −0.072
0.3186 −0.089
0.3204 −0.126
0.3249 −0.180
0.3305 −0.278
0.3360 −0.384
0.3416 −0.473
0.3468 −0.554
0.3485 −0.581
0.3673 −0.748
0.3713 −0.737
0.3738 −0.729
0.3777 −0.703
0.3794 −0.701
0.3832 −0.686
0.3853 −0.677
0.3895 −0.656
0.3912 −0.652

2438698 +
0.2488 +0.070
0.2530 +0.079
0.2571 +0.087
0.2609 +0.083
0.2620 +0.078
0.2648 +0.080
0.2661 +0.067
0.2710 −0.010
0.2724 −0.027
0.2759 −0.057
0.2828 −0.157
0.2859 −0.195
0.2870 −0.194
0.2918 −0.269
0.2929 −0.270
0.2977 −0.333
0.3019 −0.415
0.3030 −0.430
0.3040 −0.438
0.3078 −0.532
0.3092 −0.547
0.3106 −0.556
0.3141 −0.613
0.3158 −0.627
0.3168 −0.629
0.3259 −0.684
0.3269 −0.703
0.3304 −0.716
0.3325 −0.734
0.3356 −0.741
0.3373 −0.738
0.3387 −0.745
0.3425 −0.744
0.3439 −0.741
0.3474 −0.744
0.3493 −0.746
0.3559 −0.737
0.3582 −0.727
0.3620 −0.706

2438882 +
0.5014 −0.527
0.5049 −0.579
0.5083 −0.598
0.5118 −0.603
0.5149 −0.608
0.5193 −0.632
0.5219 −0.640
0.5354 −0.629
0.5375 −0.622
0.5413 −0.611
0.5427 −0.593
0.5488 −0.584
0.5514 −0.560
0.5558 −0.561
0.5606 −0.549
0.5639 −0.520
0.5767 −0.489
0.5781 −0.482
0.5799 −0.474
0.5826 −0.493
0.5861 −0.477
0.5896 −0.465

2438966 +
0.4064 −0.573
0.4085 −0.588
0.4150 −0.621
0.4171 −0.616
0.4180 −0.626
0.4193 −0.615
0.4240 −0.601
0.4279 −0.601
0.4300 −0.597
0.4341 −0.578
0.4362 −0.587
0.4411 −0.580
0.4480 −0.564
0.4548 −0.542
0.4612 −0.533
0.4633 −0.532
0.4682 −0.514
0.4703 −0.502
0.4744 −0.478
0.4810 −0.471

2438967 +
0.4431 +0.046
0.4445 +0.048
0.4456 +0.054
0.4473 +0.062
0.4483 +0.051
0.4528 +0.059
0.4539 +0.040
0.4556 +0.058
0.4685 +0.053
0.4761 +0.032
0.4796 +0.031
0.5150 −0.344
0.5188 −0.362
0.5223 −0.432
0.5251 −0.451

2438975 +
0.3940 +0.107
0.3953 +0.092
0.3971 +0.092
0.3988 +0.096
0.4030 +0.098
0.4051 +0.094
0.4071 +0.104
0.4113 +0.091
0.4130 +0.083
0.4144 +0.090
0.4200 +0.073
0.4231 +0.048
0.4273 +0.046
0.4287 +0.037
0.4301 +0.032
0.4339 −0.002
0.4353 −0.011
0.4363 −0.015
0.4405 −0.058
0.4426 −0.098
0.4440 −0.109
0.4487 −0.174
0.4505 −0.206
0.4544 −0.252
0.4561 −0.267
0.4578 −0.280
0.4620 −0.314
0.4634 −0.341
0.4651 −0.348
0.4714 −0.400
0.4728 −0.400
0.4773 −0.407
0.4790 −0.405
0.4814 −0.402
0.4880 −0.417
0.4953 −0.424
0.4974 −0.440
0.5023 −0.483
0.5058 −0.518
0.5096 −0.522
0.5113 −0.545
0.5130 −0.568
0.5176 −0.582
0.5193 −0.601

2438979 +
0.3634 +0.064
0.3683 +0.081
0.3700 +0.093
0.3710 +0.091
0.3728 +0.093
0.3777 +0.112
0.3790 +0.125
0.3804 +0.124
0.3839 +0.137
0.3871 +0.129
0.3919 +0.116
0.3929 +0.115
0.3992 +0.108
0.4026 +0.079
0.4061 +0.051
0.4082 +0.017
0.4096 +0.002
0.4138 −0.023
0.4158 −0.039
0.4172 −0.042
0.4218 −0.098
0.4231 −0.127
0.4277 −0.192
0.4294 −0.210
0.4325 −0.239
0.4336 −0.254
0.4349 −0.263
0.4395 −0.298
0.4408 −0.327
0.4443 −0.342
0.4454 −0.340
0.4495 −0.380
0.4509 −0.382
0.4520 −0.389
0.4558 −0.414
0.4572 −0.432
0.4586 −0.447
0.4624 −0.477
0.4638 −0.492
0.4648 −0.497
0.4679 −0.527
0.4697 −0.565
0.4707 −0.567
0.4738 −0.603
0.4752 −0.615
0.4766 −0.617
0.4804 −0.663
0.4818 −0.662
0.4832 −0.684
0.4870 −0.689
0.4888 −0.709
0.4898 −0.696
0.4926 −0.706
0.4943 −0.705
0.4992 −0.708
0.5006 −0.684
0.5051 −0.673
0.5065 −0.675
0.5110 −0.653
0.5120 −0.656
0.5134 −0.656
0.5176 −0.619
0.5190 −0.618
0.5207 −0.619
0.5249 −0.599
0.5322 −0.571
0.5395 −0.546
0.5408 −0.536
0.5422 −0.541
0.5474 −0.528
0.5530 −0.492
0.5547 −0.487
0.5561 −0.482
0.5610 −0.472
0.5631 −0.472

2438992 +
0.4344 +0.066
0.4365 +0.066
0.4403 +0.061

0.4414 +0.068
0.4428 +0.066
0.4469 +0.060
0.4490 +0.029
0.4511 −0.010
0.4549 −0.063
0.4563 −0.088
0.4580 −0.146
0.4619 −0.194
0.4629 −0.202
0.4640 −0.234
0.4660 −0.272
0.4671 −0.310
0.4685 −0.345
0.4716 −0.383
0.4730 −0.411
0.4744 −0.427
0.4782 −0.476
0.4796 −0.496
0.4810 −0.523
0.4844 −0.562
0.4858 −0.581
0.4872 −0.600
0.4903 −0.640
0.4921 −0.660
0.4935 −0.680
0.4969 −0.709
0.4983 −0.716
0.5001 −0.720
0.5035 −0.740
0.5046 −0.741
0.5063 −0.744
0.5094 −0.753
0.5108 −0.751
0.5122 −0.753
0.5153 −0.762
0.5178 −0.759
0.5205 −0.760
0.5216 −0.740
0.5230 −0.736
0.5268 −0.724
0.5289 −0.715
0.5428 −0.688
0.5501 −0.666
0.5528 −0.653
0.5535 −0.663
0.5542 −0.662

2438995 +
0.2922 −0.221
0.2932 −0.218
0.2981 −0.306
0.2994 −0.319
0.3029 −0.377
0.3043 −0.412
0.3054 −0.414
0.3095 −0.498
0.3130 −0.578
0.3189 −0.694
0.3203 −0.714
0.3241 −0.763
0.3255 −0.773
0.3272 −0.779
0.3310 −0.817
0.3324 −0.818
0.3345 −0.819
0.3390 −0.822
0.3411 −0.824
0.3439 −0.814
0.3481 −0.791
0.3498 −0.800
0.3515 −0.801
0.3547 −0.772
0.3557 −0.770

2439008 +
0.3397 −0.509
0.3432 −0.540
0.3470 −0.577
0.3502 −0.591
0.3515 −0.597
0.3571 −0.613
0.3599 −0.612
0.3641 −0.601
0.3682 −0.597
0.3703 −0.609
0.3734 −0.593
0.3755 −0.593
0.3769 −0.581
0.3807 −0.575
0.3821 −0.578
0.3835 −0.577
0.3870 −0.582
0.3883 −0.561
0.3904 −0.560
0.4088 −0.531
0.4099 −0.543
0.4126 −0.536
0.4140 −0.521
0.4192 −0.491
0.4210 −0.487
0.4217 −0.473
0.4234 −0.476
0.4241 −0.476
0.4252 −0.468

2439020 +
0.2643 −0.339
0.2653 −0.348
0.2691 −0.425
0.2712 −0.446
0.2740 −0.453
0.2750 −0.472
0.2761 −0.468
0.2789 −0.510
0.2799 −0.530
0.2810 −0.526
0.2837 −0.552
0.2848 −0.575
0.2886 −0.598
0.2896 −0.618
0.2907 −0.618
0.2934 −0.627
0.2959 −0.633
0.2990 −0.645
0.3000 −0.656
0.3039 −0.646
0.3049 −0.642
0.3060 −0.656
0.3087 −0.641
0.3098 −0.656
0.3136 −0.652
0.3146 −0.646
0.3157 −0.651
0.3195 −0.634
0.3205 −0.634
0.3233 −0.618
0.3244 −0.622
0.3254 −0.625
0.3296 −0.614

2439025 +
0.3212 +0.071
0.3233 +0.053
0.3275 +0.028
0.3296 −0.001
0.3316 −0.025
0.3358 −0.062
0.3379 −0.093
0.3424 −0.154
0.3435 −0.200
0.3473 −0.258
0.3483 −0.263
0.3494 −0.294
0.3521 −0.320
0.3537 −0.330
0.3566 −0.358
0.3587 −0.379
0.3622 −0.386
0.3636 −0.402
0.3646 −0.409
0.3678 −0.451
0.3688 −0.457
0.3698 −0.473
0.3726 −0.498
0.3948 −0.658
0.3966 −0.663
0.4046 −0.709
0.4066 −0.708
0.4101 −0.708
0.4122 −0.700
0.4185 −0.691

2439058 +
0.2236 −0.294
0.2250 −0.294
0.2281 −0.317
0.2295 −0.339
0.2312 −0.366
0.2340 −0.392
0.2354 −0.396
0.2371 −0.395
0.2402 −0.413
0.2427 −0.428
0.2458 −0.444
0.2472 −0.455
0.2486 −0.451
0.2524 −0.456
0.2538 −0.455
0.2555 −0.455
0.2607 −0.500
0.2621 −0.510
0.2639 −0.523
0.2677 −0.550
0.2691 −0.562
0.2757 −0.573
0.2774 −0.566
0.2791 −0.564
0.2826 −0.569
0.2840 −0.571
0.2854 −0.570
0.2878 −0.574
0.2889 −0.573
0.2903 −0.574
0.2948 −0.575
0.2958 −0.575
0.3010 −0.572
0.3038 −0.570
0.3069 −0.558
0.3083 −0.547
0.3094 −0.559
0.3132 −0.534
0.3146 −0.535
0.3160 −0.538
0.3229 −0.524
0.3257 −0.512
0.3288 −0.511
0.3309 −0.512
0.3330 −0.513

2439071 +
0.2176 +0.120
0.2232 +0.117
0.2329 +0.065
0.2357 +0.053
0.2399 +0.030
0.2464 −0.035
0.2478 −0.040
0.2544 −0.136
0.2565 −0.159
0.2593 −0.191
0.2648 −0.316
0.2669 −0.349
0.2697 −0.365
0.2739 −0.433
0.2767 −0.483
0.2787 −0.499
0.2836 −0.536
0.2857 −0.567
0.2878 −0.582
0.2940 −0.641
0.2961 −0.671
0.2982 −0.691
0.3024 −0.713
0.3044 −0.702
0.3065 −0.721
0.3107 −0.726
0.3162 −0.733
0.3204 −0.721
0.3225 −0.727
0.3246 −0.717
0.3287 −0.694
0.3308 −0.691
0.3350 −0.688
0.3371 −0.678
0.3392 −0.669

2439234 +
0.5041 −0.165
0.5079 −0.184
0.5156 −0.272

2439250 +
0.3813 −0.681
0.3820 −0.678
0.3834 −0.681
0.3865 −0.684
0.3876 −0.695
0.3890 −0.695
0.3959 −0.702
0.3970 −0.698
0.3983 −0.700
0.4011 −0.705
0.4018 −0.704
0.4032 −0.706
0.4060 −0.702
0.4070 −0.707
0.4202 −0.649
0.4216 −0.647
0.4230 −0.639
0.4265 −0.639
0.4275 −0.631
0.4303 −0.624
0.4334 −0.613
0.4348 −0.606
0.4365 −0.582
0.4400 −0.567
0.4410 −0.551
0.4421 −0.559
0.4452 −0.548
0.4483 −0.533
0.4518 −0.509
0.4532 −0.516
0.4574 −0.479
0.4605 −0.464
0.4636 −0.474
0.4660 −0.464
0.4674 −0.453

2439267 +
0.4373 −0.607
0.4390 −0.629
0.4400 −0.629
0.4428 −0.631
0.4438 −0.637
0.4445 −0.646
0.4456 −0.648
0.4462 −0.654
0.4494 −0.670
0.4504 −0.675

Table 3.

0.4529 −0.682
0.4581 −0.672
0.4588 −0.670
0.4598 −0.659
0.4608 −0.668
0.4643 −0.664
0.4654 −0.655
0.4660 −0.660
0.4671 −0.660
0.4681 −0.653
0.4712 −0.628
0.4726 −0.629
0.4737 −0.614
0.4744 −0.618
0.4754 −0.604
0.4782 −0.594
0.4810 −0.588
0.4817 −0.583

2439323 +
0.4897 −0.261
0.4908 −0.264
0.4950 −0.339
0.4992 −0.415
0.5040 −0.502
0.5061 −0.528
0.5082 −0.559
0.5124 −0.602
0.5140 −0.618
0.5158 −0.648
0.5193 −0.667
0.5210 −0.693
0.5230 −0.700
0.5265 −0.718
0.5279 −0.736
0.5292 −0.736
0.5327 −0.751
0.5348 −0.761
0.5369 −0.763
0.5419 −0.760
0.5445 −0.760
0.5480 −0.742
0.5498 −0.743
0.5519 −0.744
0.5572 −0.718
0.5647 −0.682
0.5665 −0.663
0.5700 −0.625
0.5716 −0.623

2439343 +
0.3411 −0.317
0.3462 −0.350
0.3502 −0.383

2439347 +
0.3409 −0.526
0.3419 −0.539
0.3430 −0.541
0.3450 −0.565
0.3461 −0.559
0.3471 −0.565
0.3502 −0.615
0.3513 −0.632
0.3534 −0.649
0.3579 −0.687
0.3589 −0.684
0.3600 −0.690
0.3621 −0.697
0.3631 −0.691
0.3641 −0.695
0.3662 −0.710
0.3673 −0.719
0.3683 −0.712
0.3704 −0.721
0.3726 −0.728
0.3746 −0.719
0.3756 −0.721
0.3766 −0.710
0.3787 −0.701
0.3798 −0.719
0.3808 −0.713
0.3829 −0.687
0.3850 −0.681

2439348 +
0.4408 −0.219
0.4419 −0.219
0.4429 −0.249
0.4457 −0.287
0.4474 −0.316
0.4485 −0.323
0.4523 −0.360
0.4540 −0.364
0.4714 −0.481
0.4731 −0.492
0.4745 −0.518
0.4777 −0.554
0.4794 −0.571
0.4811 −0.595
0.4856 −0.633
0.4877 −0.665
0.4915 −0.696
0.4940 −0.709
0.4971 −0.715
0.4985 −0.714
0.5002 −0.718
0.5044 −0.721
0.5072 −0.714
0.5086 −0.714
0.5099 −0.700
0.5134 −0.693
0.5148 −0.697
0.5158 −0.691
0.5209 −0.682
0.5287 −0.659
0.5297 −0.654

2439361 +
0.4876 −0.598
0.4897 −0.634
0.4907 −0.650
0.4918 −0.680
0.4938 −0.707
0.4949 −0.706
0.4959 −0.728
0.4980 −0.746
0.4991 −0.759
0.5001 −0.758
0.5022 −0.765
0.5032 −0.779
0.5043 −0.801
0.5063 −0.811
0.5074 −0.810
0.5084 −0.820
0.5105 −0.825
0.5116 −0.818
0.5126 −0.827
0.5147 −0.836
0.5157 −0.832
0.5168 −0.841
0.5194 −0.836
0.5209 −0.832
0.5230 −0.843
0.5241 −0.832
0.5251 −0.843
0.5272 −0.825
0.5282 −0.821
0.5293 −0.821

2439390 +
0.3441 +0.102
0.3479 +0.098
0.3507 +0.099
0.3545 +0.103
0.3566 +0.093
0.3587 +0.097
0.3632 +0.059
0.3662 +0.035
0.3719 −0.027
0.3740 −0.030
0.3760 −0.046
0.3806 −0.087
0.3819 −0.115
0.3837 −0.128
0.3875 −0.188
0.3892 −0.221
0.3934 −0.248
0.3948 −0.253
0.3962 −0.284
0.4004 −0.319
0.4024 −0.347
0.4042 −0.350
0.4090 −0.368
0.4111 −0.384
0.4128 −0.382
0.4174 −0.440
0.4205 −0.473
0.4247 −0.544
0.4267 −0.560
0.4288 −0.606
0.4323 −0.636
0.4337 −0.653
0.4354 −0.672
0.4392 −0.677
0.4419 −0.706
0.4483 −0.733
0.4510 −0.748
0.4552 −0.745
0.4566 −0.744
0.4580 −0.731
0.4622 −0.709
0.4639 −0.706
0.4649 −0.705
0.4684 −0.692
0.4715 −0.688
0.4802 −0.655
0.4816 −0.642
0.4830 −0.641

2439402 +
0.2651 +0.031
0.2671 +0.012
0.2685 −0.026
0.2765 −0.097
0.2776 −0.119
0.2786 −0.130
0.2814 −0.174
0.2824 −0.205
0.2835 −0.222
0.2869 −0.307
0.2883 −0.335
0.2900 −0.344
0.2942 −0.439
0.2960 −0.453
0.2977 −0.484
0.3019 −0.553
0.3032 −0.585
0.3046 −0.587
0.3081 −0.650
0.3098 −0.682
0.3112 −0.714
0.3151 −0.731
0.3168 −0.759
0.3182 −0.759
0.3227 −0.787
0.3241 −0.798
0.3255 −0.808
0.3289 −0.805
0.3307 −0.805
0.3321 −0.805
0.3355 −0.797
0.3369 −0.786
0.3383 −0.783
0.3414 −0.786
0.3435 −0.758
0.3449 −0.753
0.3463 −0.750
0.3477 −0.733

2439406 +
0.2631 −0.639
0.2639 −0.676
0.2648 −0.681
0.2662 −0.703
0.2673 −0.708
0.2704 −0.757
0.2760 −0.859
0.2774 −0.860
0.2815 −0.867
0.2822 −0.869
0.2832 −0.865
0.2857 −0.852
0.2867 −0.846
0.2908 −0.830
0.2910 −0.820
0.2942 −0.822
0.2950 −0.812
0.2961 −0.820
0.2989 −0.794
0.3003 −0.794
0.3013 −0.770
0.3044 −0.755
0.3065 −0.738
0.3096 −0.715
0.3107 −0.721
0.3131 −0.687
0.3142 −0.689
0.3152 −0.683
0.3176 −0.671
0.3187 −0.668
0.3197 −0.659

2439423 +
0.2578 −0.333
0.2592 −0.336
0.2610 −0.354
0.2686 −0.396
0.2700 −0.416

2439599 +
0.5616 −0.431
0.5658 −0.523
0.5671 −0.554
0.5699 −0.593
0.5710 −0.607
0.5720 −0.600
0.5748 −0.600
0.5758 −0.597
0.5768 −0.605
0.5796 −0.610

2439683 +
0.4543 −0.498
0.4588 −0.529
0.4693 −0.592
0.4714 −0.624
0.4762 −0.642
0.4790 −0.672
0.4839 −0.675
0.4859 −0.675
0.4901 −0.675
0.4991 −0.673

2439687 +
0.3874 −0.083
0.3881 −0.088
0.3929 −0.129
0.4006 −0.289
0.4013 −0.298

0.4054 −0.328
0.4089 −0.354
0.4214 −0.501
0.4256 −0.556
0.4263 −0.559
0.4304 −0.598
0.4339 −0.648
0.4381 −0.690
0.4388 −0.698
0.4464 −0.736
0.4506 −0.719
0.4513 −0.725
0.4554 −0.711
0.4589 −0.706
0.4631 −0.685
0.4638 −0.679
0.4679 −0.686
0.4714 −0.671
0.4756 −0.624
0.4763 −0.637
0.4804 −0.617
0.4839 −0.585
0.4881 −0.608

2439691 +
0.3755 −0.388
0.3762 −0.381
0.3804 −0.439
0.3922 −0.532
0.3963 −0.580
0.3998 −0.600
0.4040 −0.646
0.4047 −0.645
0.4106 −0.672
0.4165 −0.677
0.4172 −0.689
0.4213 −0.701
0.4248 −0.704
0.4290 −0.687
0.4297 −0.687
0.4338 −0.700
0.4373 −0.678
0.4415 −0.671
0.4422 −0.668
0.4463 −0.645
0.4498 −0.635
0.4540 −0.636
0.4547 −0.631
0.4588 −0.618
0.4623 −0.613
0.4665 −0.588
0.4755 −0.550

2439712 +
0.3337 −0.178
0.3354 −0.217
0.3372 −0.235
0.3427 −0.341
0.3444 −0.399
0.3521 −0.477
0.3531 −0.490
0.3545 −0.485
0.3580 −0.506
0.3618 −0.513
0.3656 −0.524
0.3674 −0.529
0.3691 −0.534
0.3740 −0.548
0.3764 −0.563
0.3788 −0.582
0.3837 −0.617
0.3858 −0.604
0.3927 −0.640
0.3948 −0.639
0.4038 −0.623
0.4056 −0.611
0.4094 −0.631
0.4108 −0.619
0.4205 −0.585
0.4274 −0.548
0.4323 −0.545

2439716 +
0.3379 −0.512
0.3389 −0.514
0.3400 −0.517
0.3434 −0.531
0.3445 −0.535
0.3764 −0.601
0.3775 −0.596
0.3809 −0.605
0.3830 −0.599
0.3865 −0.579
0.3875 −0.577

2439721 +
0.4052 −0.151
0.4073 −0.208
0.4170 −0.351
0.4247 −0.424
0.4268 −0.463
0.4309 −0.478
0.4340 −0.507
0.4351 −0.511
0.4365 −0.510
0.4413 −0.550
0.4434 −0.582
0.4469 −0.588
0.4504 −0.608
0.4518 −0.629
0.4535 −0.635
0.4580 −0.656
0.4597 −0.653
0.4608 −0.650
0.4656 −0.663
0.4677 −0.661
0.4688 −0.662
0.4747 −0.659
0.4768 −0.651
0.4809 −0.638
0.4830 −0.627
0.4851 −0.638
0.4893 −0.620
0.4913 −0.608
0.4934 −0.599
0.4987 −0.565

2439725 +
0.3837 −0.265
0.3847 −0.295
0.3858 −0.318
0.3901 −0.382
0.3916 −0.410
0.3948 −0.452
0.3962 −0.455
0.3978 −0.481
0.4017 −0.496
0.4038 −0.509
0.4087 −0.543
0.4111 −0.574
0.4159 −0.603
0.4177 −0.601
0.4187 −0.623
0.4229 −0.630
0.4243 −0.645
0.4260 −0.654
0.4302 −0.655
0.4328 −0.674
0.4361 −0.669
0.4375 −0.669
0.4392 −0.675
0.4434 −0.651
0.4455 −0.654
0.4469 −0.652
0.4507 −0.638
0.4517 −0.638
0.4538 −0.633
0.4573 −0.637
0.4590 −0.621

2439733 +
0.3106 −0.156
0.3126 −0.171
0.3224 −0.347
0.3234 −0.402
0.3265 −0.457
0.3276 −0.466
0.3286 −0.487
0.3314 −0.515
0.3328 −0.531
0.3373 −0.581
0.3383 −0.588
0.3397 −0.617
0.3425 −0.651
0.3436 −0.667
0.3446 −0.682
0.3484 −0.704
0.3495 −0.710
0.3505 −0.709
0.3536 −0.717
0.3550 −0.720
0.3564 −0.723
0.3595 −0.725
0.3609 −0.729
0.3623 −0.730
0.3665 −0.738
0.3675 −0.740
0.3686 −0.735
0.3724 −0.739
0.3738 −0.738
0.3748 −0.733
0.3804 −0.701
0.3818 −0.708
0.3856 −0.707
0.3866 −0.689
0.3887 −0.678
0.3922 −0.664
0.3939 −0.653
0.3960 −0.649
0.4002 −0.591
0.4022 −0.573

2439737 +
0.3070 −0.641
0.3100 −0.658
0.3116 −0.674
0.3143 −0.683
0.3161 −0.691
0.3171 −0.693
0.3202 −0.719
0.3227 −0.719
0.3279 −0.734
0.3307 −0.742
0.3352 −0.734
0.3366 −0.735
0.3376 −0.728
0.3407 −0.723
0.3425 −0.715
0.3435 −0.713
0.3473 −0.706
0.3494 −0.702
0.3508 −0.699
0.3543 −0.698
0.3557 −0.683
0.3567 −0.674
0.3598 −0.657
0.3612 −0.647
0.3623 −0.641
0.3654 −0.627
0.3664 −0.611
0.3675 −0.613
0.3709 −0.613
0.3723 −0.598

2439758 +
0.2613 −0.409
0.2627 −0.425
0.2637 −0.435
0.2689 −0.459
0.2703 −0.476
0.2731 −0.479
0.2754 −0.474
0.2783 −0.489
0.2794 −0.510
0.2807 −0.509
0.2838 −0.526
0.2853 −0.534
0.2864 −0.535
0.2897 −0.560
0.2911 −0.574
0.2923 −0.576
0.2956 −0.600
0.2969 −0.600
0.2983 −0.598
0.3017 −0.600
0.3027 −0.595
0.3040 −0.596
0.3074 −0.617
0.3090 −0.601
0.3103 −0.604
0.3142 −0.617
0.3168 −0.615
0.3182 −0.618
0.3230 −0.609
0.3250 −0.607
0.3276 −0.598
0.3292 −0.598
0.3305 −0.599
0.3352 −0.577
0.3370 −0.566
0.3388 −0.564

2439762 +
0.2502 −0.456
0.2540 −0.523
0.2558 −0.526
0.2585 −0.547
0.2596 −0.553
0.2613 −0.579
0.2648 −0.599
0.2662 −0.593
0.2676 −0.599
0.2703 −0.621
0.2717 −0.620
0.2731 −0.626
0.2759 −0.629
0.2773 −0.626
0.2787 −0.628
0.2821 −0.635
0.2870 −0.636
0.2884 −0.645
0.2898 −0.637
0.2940 −0.646
0.2953 −0.641
0.3033 −0.632
0.3058 −0.627

2439763 +
0.3456 −0.062
0.3467 −0.096
0.3477 −0.105
0.3505 −0.147
0.3515 −0.174
0.3526 −0.188
0.3553 −0.211
0.3564 −0.246
0.3574 −0.266
0.3595 −0.291
0.3619 −0.337
0.3647 −0.358

0.3658 −0.385
0.3668 −0.389
0.3689 −0.423
0.3699 −0.427
0.3710 −0.427
0.3737 −0.451
0.3747 −0.455
0.3755 −0.464
0.3779 −0.465
0.3789 −0.497
0.3803 −0.485
0.3824 −0.512
0.3838 −0.503
0.3849 −0.511
0.3876 −0.520
0.3887 −0.538
0.3897 −0.535
0.3921 −0.562
0.3932 −0.560
0.3942 −0.573
0.3970 −0.577
0.3984 −0.593
0.3994 −0.593
0.4029 −0.635
0.4043 −0.637
0.4064 −0.641
0.4105 −0.651
0.4137 −0.655
0.4185 −0.648
0.4199 −0.648
0.4217 −0.642
0.4251 −0.636
0.4272 −0.641
0.4300 −0.625
0.4335 −0.611
0.4345 −0.620

2439775 +
0.2517 −0.040
0.2528 −0.067
0.2542 −0.073
0.2566 −0.106
0.2576 −0.121
0.2587 −0.159
0.2618 −0.235
0.2635 −0.255
0.2653 −0.284
0.2691 −0.337
0.2708 −0.361
0.2740 −0.412
0.2760 −0.440
0.2913 −0.675
0.2924 −0.685
0.2934 −0.688
0.2969 −0.736
0.2990 −0.753
0.3017 −0.767
0.3035 −0.768
0.3066 −0.776
0.3076 −0.781
0.3087 −0.780
0.3118 −0.781
0.3128 −0.781
0.3156 −0.774
0.3166 −0.780
0.3177 −0.772
0.3201 −0.789
0.3212 −0.776
0.3222 −0.774
0.3246 −0.778
0.3262 −0.763
0.3292 −0.751
0.3302 −0.732
0.3312 −0.723
0.3340 −0.702
0.3351 −0.697
0.3361 −0.704
0.3382 −0.676
0.3392 −0.676

2439779 +
0.2325 −0.340
0.2366 −0.428
0.2394 −0.512
0.2594 −0.742
0.2641 −0.750
0.2655 −0.762
0.2693 −0.774
0.2707 −0.756
0.2717 −0.755
0.2745 −0.766
0.2755 −0.773
0.2795 −0.771
0.2814 −0.753
0.2846 −0.752
0.2856 −0.747
0.2870 −0.758
0.2894 −0.747

2439780 +
0.3700 −0.431
0.3720 −0.468
0.3738 −0.495
0.4122 −0.734
0.4200 −0.712
0.4227 −0.718
0.4262 −0.705
0.4283 −0.702

2439784 +
0.3241 −0.244
0.3255 −0.270
0.3269 −0.305
0.3297 −0.363
0.3314 −0.393
0.3331 −0.419
0.3366 −0.491
0.3376 −0.527
0.3394 −0.556
0.3429 −0.580
0.3442 −0.585
0.3463 −0.604
0.3519 −0.653
0.3540 −0.669
0.3560 −0.684
0.3602 −0.699
0.3623 −0.715
0.3692 −0.709
0.3713 −0.717
0.3734 −0.710
0.3776 −0.700
0.3797 −0.705
0.3817 −0.693
0.3859 −0.696
0.3897 −0.698
0.3936 −0.698
0.3949 −0.686
0.3970 −0.679
0.4008 −0.666
0.4033 −0.643
0.4083 −0.619

2439963 +
0.4782 −0.484
0.4854 −0.523
0.4886 −0.538
0.5007 −0.595
0.5049 −0.599
0.5070 −0.614
0.5090 −0.618
0.5132 −0.627
0.5153 −0.635
0.5216 −0.622
0.5236 −0.622
0.5257 −0.614
0.5299 −0.598
0.5320 −0.601
0.5382 −0.605
0.5403 −0.589
0.5466 −0.576
0.5497 −0.576
0.5549 −0.543
0.5570 −0.530

2439993 +
0.5331 −0.664
0.5352 −0.644
0.5394 −0.637
0.5415 −0.630
0.5463 −0.595
0.5484 −0.592
0.5533 −0.575
0.5554 −0.578
0.5602 −0.561
0.5623 −0.540

2440013 +
0.3596 −0.503
0.3617 −0.559
0.3637 −0.616
0.3690 −0.685
0.3721 −0.726
0.3762 −0.753
0.3783 −0.770
0.3804 −0.781
0.3846 −0.792
0.3866 −0.787
0.3887 −0.783
0.3929 −0.789
0.3950 −0.783
0.3971 −0.764
0.4012 −0.746
0.4033 −0.738
0.4054 −0.742
0.4117 −0.713
0.4137 −0.704
0.4179 −0.699
0.4200 −0.674
0.4221 −0.668

2440014 +
0.4679 −0.203
0.4700 −0.249
0.4721 −0.270
0.4770 −0.348
0.4791 −0.373
0.4811 −0.405
0.4853 −0.460
0.4874 −0.492
0.4895 −0.519
0.4936 −0.588
0.4957 −0.631
0.4978 −0.655
0.5027 −0.721
0.5048 −0.738
0.5068 −0.743
0.5117 −0.777
0.5138 −0.795
0.5159 −0.785
0.5207 −0.787
0.5228 −0.783
0.5249 −0.779
0.5290 −0.765
0.5311 −0.762
0.5332 −0.750
0.5388 −0.728
0.5409 −0.725
0.5429 −0.717
0.5478 −0.697
0.5499 −0.682

2440031 +
0.4640 −0.537
0.4647 −0.544
0.4688 −0.624
0.4765 −0.693
0.4772 −0.705
0.4814 −0.744
0.4848 −0.747
0.4890 −0.755
0.4897 −0.757
0.4938 −0.748
0.4973 −0.741
0.5015 −0.735
0.5022 −0.732

2440035 +
0.4066 −0.126
0.4100 −0.157
0.4142 −0.214
0.4149 −0.217
0.4190 −0.270
0.4225 −0.343
0.4267 −0.376
0.4274 −0.384
0.4316 −0.468
0.4392 −0.524
0.4420 −0.544
0.4461 −0.582
0.4468 −0.581
0.4510 −0.604
0.4545 −0.623
0.4586 −0.616
0.4593 −0.624
0.4635 −0.628
0.4670 −0.635
0.4711 −0.627
0.4718 −0.624
0.4760 −0.607
0.4795 −0.603
0.4836 −0.585
0.4843 −0.585
0.4903 −0.566

2440039 +
0.3739 +0.009
0.3746 +0.008
0.3802 −0.059
0.3808 −0.061
0.3850 −0.182
0.3885 −0.239
0.3926 −0.313
0.3933 −0.313
0.3975 −0.431
0.4010 −0.473
0.4052 −0.506
0.4058 −0.506
0.4100 −0.528
0.4135 −0.543
0.4170 −0.542
0.4204 −0.572
0.4246 −0.588
0.4253 −0.588
0.4295 −0.580
0.4329 −0.590
0.4579 −0.588
0.4586 −0.582
0.4628 −0.574
0.4663 −0.571
0.4704 −0.571
0.4711 −0.565

2440043 +
0.3686 −0.342
0.3707 −0.353
0.3741 −0.402
0.3762 −0.395
0.3797 −0.424
0.3811 −0.437
0.3839 −0.427

0.3853 −0.429
0.3880 −0.448
0.3894 −0.444
0.3922 −0.440
0.3936 −0.429
0.3964 −0.440
0.3978 −0.449
0.4019 −0.458
0.4047 −0.471
0.4061 −0.477
0.4089 −0.478
0.4103 −0.495
0.4130 −0.503
0.4144 −0.515
0.4172 −0.542
0.4186 −0.548
0.4214 −0.545
0.4228 −0.553
0.4255 −0.548
0.4297 −0.581
0.4311 −0.572
0.4339 −0.582
0.4353 −0.570
0.4387 −0.578
0.4408 −0.580
0.4436 −0.585
0.4450 −0.579
0.4478 −0.580
0.4498 −0.576
0.4533 −0.567
0.4575 −0.544
0.4589 −0.550
0.4616 −0.546
0.4630 −0.533
0.4665 −0.517
0.4679 −0.513

2440052 +
0.4181 +0.115
0.4188 +0.107
0.4229 +0.064
0.4264 +0.042
0.4306 +0.008
0.4313 +0.010
0.4612 −0.360
0.4619 −0.366
0.4695 −0.465
0.4736 −0.506
0.4743 −0.503
0.4785 −0.559
0.4824 −0.584
0.4861 −0.635
0.4868 −0.636
0.4910 −0.680
0.4945 −0.689
0.4986 −0.698
0.4993 −0.705
0.5035 −0.723
0.5070 −0.717
0.5111 −0.716
0.5118 −0.717
0.5160 −0.701
0.5195 −0.692

2440060 +
0.4044 −0.732
0.4057 −0.739
0.4085 −0.759
0.4099 −0.773
0.4127 −0.782
0.4141 −0.792
0.4169 −0.806
0.4182 −0.817
0.4210 −0.820
0.4224 −0.817
0.4252 −0.825
0.4266 −0.815
0.4294 −0.802
0.4308 −0.783
0.4335 −0.784
0.4349 −0.768
0.4377 −0.759
0.4391 −0.755
0.4419 −0.743
0.4432 −0.740
0.4460 −0.709
0.4474 −0.703

2440069 +
0.4342 −0.339
0.4356 −0.380
0.4384 −0.434
0.4398 −0.465
0.4919 −0.700
0.4933 −0.708
0.4961 −0.704
0.5044 −0.646
0.5058 −0.628
0.5086 −0.616
0.5100 −0.596

2440077 +
0.3549 −0.009
0.3556 −0.005
0.3848 −0.565
0.3855 −0.570

2440353 +
0.4576 −0.769
0.4604 −0.768
0.4673 −0.753
0.4721 −0.731
0.4761 −0.693
0.4801 −0.670
0.4812 −0.671
0.4856 −0.649
0.4923 −0.613
0.4943 −0.599
0.5013 −0.568
0.5044 −0.579
0.5058 −0.564
0.5071 −0.562
0.5122 −0.538
0.5141 −0.538
0.5173 −0.535
0.5187 −0.519
0.5201 −0.512
0.5235 −0.518
0.5249 −0.511
0.5263 −0.506
0.5325 −0.459
0.5342 −0.459
0.5356 −0.451
0.5381 −0.451
0.5391 −0.442
0.5405 −0.439

2440357 +
0.3771 −0.308
0.3792 −0.348
0.3833 −0.434
0.3854 −0.480
0.3896 −0.548
0.3917 −0.563
0.3958 −0.612
0.3979 −0.632
0.4028 −0.663
0.4049 −0.684
0.4090 −0.716
0.4153 −0.734
0.4174 −0.738
0.4215 −0.737
0.4236 −0.727
0.4278 −0.711
0.4299 −0.703

2440366 +
0.4301 +0.051
0.4322 +0.026
0.4364 −0.049
0.4384 −0.086
0.4426 −0.157
0.4447 −0.212
0.4489 −0.262
0.4510 −0.326
0.4551 −0.410
0.4572 −0.417
0.4614 −0.469
0.4634 −0.494
0.4676 −0.530
0.4750 −0.558
0.4801 −0.570
0.4822 −0.576
0.4864 −0.588
0.4884 −0.599
0.4937 −0.604
0.5000 −0.599
0.5051 −0.600
0.5072 −0.600
0.5114 −0.598
0.5135 −0.583

2440404 +
0.4027 +0.056
0.4088 −0.014
0.4141 −0.118
0.4162 −0.138
0.4203 −0.219
0.4224 −0.252
0.4266 −0.354
0.4287 −0.407
0.4328 −0.477
0.4349 −0.505
0.4391 −0.546
0.4412 −0.568
0.4453 −0.609
0.4474 −0.619
0.4516 −0.630
0.4537 −0.645
0.4578 −0.640
0.4599 −0.652
0.4641 −0.651
0.4662 −0.671
0.4703 −0.664
0.4724 −0.655
0.4766 −0.646
0.4787 −0.634
0.4828 −0.634
0.4849 −0.622
0.4891 −0.622
0.4912 −0.618
0.4940 −0.580
0.4953 −0.579

2440417 +
0.4502 +0.069
0.4523 +0.052
0.4565 +0.030
0.4585 +0.025
0.4627 −0.046
0.4648 −0.080
0.4690 −0.139
0.4710 −0.171
0.4752 −0.233
0.4773 −0.250
0.4815 −0.311
0.4835 −0.331
0.4877 −0.363
0.4891 −0.363
0.4940 −0.395
0.4960 −0.401
0.5002 −0.424
0.5023 −0.445
0.5065 −0.476
0.5085 −0.488
0.5127 −0.540
0.5148 −0.561
0.5190 −0.584
0.5210 −0.598
0.5252 −0.636
0.5273 −0.653
0.5315 −0.660
0.5335 −0.661
0.5377 −0.670
0.5398 −0.675
0.5440 −0.673
0.5460 −0.664
0.5502 −0.664
0.5525 −0.665
0.5565 −0.649
0.5585 −0.623
0.5627 −0.603
0.5648 −0.601

2440454 +
0.3530 −0.506
0.3551 −0.526
0.3592 −0.547
0.3613 −0.561
0.3655 −0.582
0.3676 −0.590

2440471 +
0.3417 −0.644
0.3438 −0.678
0.3480 −0.716
0.3500 −0.734
0.3542 −0.763
0.3563 −0.774
0.3605 −0.784
0.3667 −0.795
0.3688 −0.795
0.3730 −0.767
0.3750 −0.768
0.3792 −0.736
0.3813 −0.730
0.3855 −0.717
0.3875 −0.710

2440501 +
0.4045 −0.586
0.4059 −0.610
0.4103 −0.614
0.4121 −0.637
0.4184 −0.685
0.4218 −0.707
0.4239 −0.707
0.4281 −0.700
0.4302 −0.701
0.4343 −0.718
0.4364 −0.702
0.4406 −0.708
0.4427 −0.686
0.4468 −0.681
0.4489 −0.662
0.4531 −0.636
0.4604 −0.603

2440710 +
0.4684 +0.112
0.4705 +0.124
0.4746 +0.114
0.4767 +0.117
0.4809 +0.121
0.4871 +0.125
0.4892 +0.111
0.5007 +0.116
0.5070 +0.082
0.5121 +0.027
0.5142 +0.003

0.5184 −0.098
0.5205 −0.116
0.5246 −0.182
0.5267 −0.240
0.5309 −0.320
0.5330 −0.367
0.5434 −0.514
0.5455 −0.525
0.5496 −0.584
0.5517 −0.602
0.5559 −0.646
0.5580 −0.673
0.5621 −0.712
0.5642 −0.715
0.5746 −0.772
0.5767 −0.774

2440731 +
0.4679 −0.021
0.4699 −0.028
0.4741 −0.091
0.4762 −0.155
0.4804 −0.259
0.4824 −0.319
0.4866 −0.394
0.4887 −0.458
0.4929 −0.537
0.4949 −0.559
0.5012 −0.611
0.5054 −0.631
0.5074 −0.651
0.5116 −0.664
0.5137 −0.674
0.5179 −0.680
0.5199 −0.690
0.5241 −0.699
0.5262 −0.697
0.5304 −0.686
0.5324 −0.680
0.5366 −0.676
0.5387 −0.673

2440752 +
0.4360 +0.121
0.4381 +0.125
0.4422 +0.099
0.4442 +0.095
0.4485 +0.074
0.4506 +0.071
0.4547 +0.023
0.4567 −0.014
0.4621 −0.072
0.4672 −0.164
0.4693 −0.210
0.4735 −0.264
0.4797 −0.411
0.4818 −0.434
0.4860 −0.500
0.4881 −0.521
0.4922 −0.555
0.4943 −0.575
0.4985 −0.622

0.5006 −0.663
0.5047 −0.701
0.5110 −0.755
0.5131 −0.758
0.5172 −0.758
0.5193 −0.764
0.5235 −0.777
0.5256 −0.766
0.5297 −0.762
0.5318 −0.746
0.5360 −0.732
0.5381 −0.708

2440798 +
0.3721 −0.237
0.3742 −0.250
0.3784 −0.327
0.3927 −0.614
0.3958 −0.633
0.4045 −0.738
0.4096 −0.765
0.4117 −0.767
0.4180 −0.792
0.4235 −0.793
0.4284 −0.788

2440837 +
0.5099 −0.616
0.5120 −0.650
0.5173 −0.705
0.5224 −0.752
0.5245 −0.761
0.5287 −0.784
0.5308 −0.789
0.5360 −0.786
0.5413 −0.778
0.5434 −0.771
0.5495 −0.729
0.5516 −0.724
0.5558 −0.697
0.5579 −0.690

2440841 +
0.4232 +0.086
0.4253 +0.085
0.4282 +0.033
0.4336 −0.004
0.4420 −0.104
0.4482 −0.245
0.4503 −0.273
0.4559 −0.405
0.4580 −0.432
0.4635 −0.488
0.4656 −0.523
0.4705 −0.624
0.4726 −0.664
0.4785 −0.748
0.4843 −0.792
0.4864 −0.822
0.4941 −0.822
0.4962 −0.823
0.5003 −0.800

0.5073 −0.769
0.5135 −0.747
0.5149 −0.720

2440866 +
0.4030 −0.305
0.4044 −0.345
0.4058 −0.351
0.4083 −0.380
0.4097 −0.375
0.4111 −0.397
0.4141 −0.401
0.4155 −0.407
0.4169 −0.418
0.4203 −0.431
0.4217 −0.436
0.4231 −0.442
0.4259 −0.452
0.4273 −0.473
0.4287 −0.473
0.4315 −0.494
0.4329 −0.520
0.4343 −0.544
0.4370 −0.579
0.4384 −0.594
0.4398 −0.618
0.4440 −0.627
0.4544 −0.681
0.4558 −0.688
0.4572 −0.705
0.4613 −0.693
0.4627 −0.691
0.4655 −0.685
0.4669 −0.688
0.4683 −0.681
0.4765 −0.658
0.4779 −0.645
0.4793 −0.638

2440870 +
0.3301 +0.117
0.3315 +0.118
0.3329 +0.109
0.3356 +0.100
0.3370 +0.096
0.3384 +0.096
0.3412 +0.078
0.3426 +0.086
0.3440 +0.074
0.3474 +0.078
0.3488 +0.070
0.3502 +0.058
0.3523 +0.024
0.3537 −0.007
0.3551 −0.017
0.3593 −0.075
0.3607 −0.098
0.3634 −0.138
0.3648 −0.154
0.3662 −0.198
0.3690 −0.263
0.3718 −0.308

0.3745 −0.366
0.3759 −0.364
0.3773 −0.376
0.3801 −0.397
0.3815 −0.407
0.3829 −0.417
0.3857 −0.455
0.3871 −0.468
0.3885 −0.470
0.3947 −0.549
0.3974 −0.544
0.3988 −0.556
0.4002 −0.574
0.4037 −0.627
0.4051 −0.635
0.4092 −0.680
0.4106 −0.679
0.4120 −0.686
0.4155 −0.703
0.4169 −0.705
0.4183 −0.714
0.4224 −0.720
0.4238 −0.722
0.4273 −0.722
0.4287 −0.722
0.4301 −0.716
0.4328 −0.719
0.4342 −0.718
0.4356 −0.710

2440878 +
0.2901 −0.033
0.2922 −0.053
0.2963 −0.136
0.2984 −0.165
0.3026 −0.273
0.3047 −0.311
0.3088 −0.372
0.3109 −0.399
0.3151 −0.485
0.3172 −0.515
0.3213 −0.576
0.3234 −0.606
0.3276 −0.652
0.3297 −0.670
0.3338 −0.703
0.3359 −0.721
0.3401 −0.741
0.3463 −0.773
0.3484 −0.771
0.3533 −0.775
0.3554 −0.766
0.3609 −0.754
0.3651 −0.728
0.3672 −0.711

2441024 +
0.5513 −0.444
0.5532 −0.472
0.5540 −0.480
0.5571 −0.528
0.5585 −0.531

0.5607 −0.550
0.5618 −0.552
0.5629 −0.549
0.5653 −0.562
0.5663 −0.582
0.5673 −0.595
0.5692 −0.603
0.5700 −0.590
0.5710 −0.601
0.5734 −0.610
0.5745 −0.628
0.5756 −0.625
0.5786 −0.664
0.5796 −0.662
0.5817 −0.669
0.5827 −0.664
0.5836 −0.663
0.5857 −0.680
0.5865 −0.680
0.5875 −0.680
0.5898 −0.689
0.5908 −0.685
0.5918 −0.680
0.5940 −0.670
0.5952 −0.675
0.5962 −0.673
0.5983 −0.667
0.5994 −0.666
0.6004 −0.673
0.6024 −0.676
0.6034 −0.667
0.6045 −0.676
0.6067 −0.660
0.6089 −0.662
0.6117 −0.662
0.6127 −0.653
0.6137 −0.639
0.6170 −0.621
0.6179 −0.624
0.6210 −0.622
0.6221 −0.627
0.6231 −0.629
0.6253 −0.620
0.6265 −0.604
0.6274 −0.597
0.6298 −0.577
0.6309 −0.573
0.6319 −0.569
0.6346 −0.567
0.6355 −0.559
0.6368 −0.560
0.6398 −0.553
0.6410 −0.536
0.6421 −0.532

2441054 +
0.5434 +0.122
0.5447 +0.113
0.5458 +0.096
0.5489 +0.077
0.5505 +0.062
0.5519 +0.067

0.5550 +0.045
0.5571 +0.020
0.5606 −0.010
0.5618 −0.040
0.5629 −0.068
0.5660 −0.110
0.5673 −0.114
0.5686 −0.136
0.5715 −0.201
0.5728 −0.224
0.5741 −0.258
0.5765 −0.298
0.5785 −0.319
0.5818 −0.356
0.5830 −0.376
0.5870 −0.467
0.5883 −0.485
0.5895 −0.516
0.5923 −0.551
0.5935 −0.567
0.5946 −0.582

2441057 +
0.4459 −0.738
0.4469 −0.740
0.4521 −0.762
0.4535 −0.743
0.4570 −0.752
0.4582 −0.745
0.4595 −0.732
0.4629 −0.751
0.4644 −0.737
0.4659 −0.722
0.4694 −0.734
0.4709 −0.724
0.4723 −0.701
0.4778 −0.705
0.4795 −0.684
0.4851 −0.674
0.4861 −0.671
0.4895 −0.645
0.4908 −0.636
0.4921 −0.619
0.4946 −0.599
0.5000 −0.577
0.5015 −0.582
0.5029 −0.564
0.5054 −0.556
0.5084 −0.553

2441062 +
0.4720 +0.148
0.4734 +0.135
0.4747 +0.120
0.4761 +0.098
0.4793 +0.103
0.4824 +0.087
0.4892 +0.038
0.4903 +0.044
0.4914 +0.042
0.4959 −0.013
0.4970 −0.035
0.4980 −0.026
0.5016 −0.078
0.5028 −0.120
0.5104 −0.258
0.5149 −0.341
0.5192 −0.421
0.5202 −0.458
0.5227 −0.473
0.5237 −0.500
0.5265 −0.506
0.5277 −0.525
0.5305 −0.552
0.5315 −0.556
0.5338 −0.581
0.5343 −0.582
0.5353 −0.575
0.5386 −0.607
0.5400 −0.629
0.5422 −0.637
0.5433 −0.648
0.5458 −0.675
0.5467 −0.682
0.5495 −0.700
0.5503 −0.693
0.5531 −0.686
0.5543 −0.688
0.5577 −0.704
0.5616 −0.700
0.5639 −0.699
0.5649 −0.695
0.5670 −0.701
0.5680 −0.703
0.5711 −0.689
0.5723 −0.689
0.5744 −0.691
0.5755 −0.681
0.5786 −0.684
0.5838 −0.676
0.5872 −0.657

2441070 +
0.4250 +0.049
0.4262 +0.043
0.4272 +0.017
0.4293 +0.018
0.4303 −0.003
0.4319 −0.003
0.4333 −0.052
0.4343 −0.054
0.4353 −0.071
0.4378 −0.077
0.4388 −0.092
0.4420 −0.157
0.4430 −0.162
0.4442 −0.186
0.4483 −0.274
0.4506 −0.312
0.4516 −0.319
0.4526 −0.344
0.4548 −0.382
0.4558 −0.399
0.4568 −0.427
0.4589 −0.454
0.4600 −0.458
0.4610 −0.482
0.4634 −0.499
0.4642 −0.504
0.4652 −0.490
0.4674 −0.491
0.4685 −0.495
0.4696 −0.509
0.4719 −0.536
0.4729 −0.548
0.4740 −0.550
0.4760 −0.552
0.4771 −0.561
0.4789 −0.576
0.4806 −0.583
0.4816 −0.608
0.4827 −0.614
0.4850 −0.616
0.4860 −0.630
0.4871 −0.636
0.4922 −0.671
0.4933 −0.671
0.4953 −0.670
0.4965 −0.684
0.4976 −0.689
0.5004 −0.679
0.5015 −0.682
0.5042 −0.697
0.5052 −0.700
0.5074 −0.675
0.5084 −0.679
0.5108 −0.671
0.5119 −0.670
0.5144 −0.662
0.5154 −0.655
0.5179 −0.666
0.5190 −0.666
0.5214 −0.660
0.5224 −0.649
0.5248 −0.637
0.5258 −0.626
0.5284 −0.618
0.5295 −0.611
0.5319 −0.600
0.5330 −0.601
0.5355 −0.593
0.5365 −0.596
0.5389 −0.568
0.5399 −0.578

2441083 +
0.4530 +0.101
0.4543 +0.101
0.4555 +0.104
0.4567 +0.086
0.4591 +0.091
0.4602 +0.069
0.4613 +0.071
0.4624 +0.055
0.4647 +0.042
0.4657 +0.025
0.4667 +0.029
0.4678 +0.029
0.4713 −0.034
0.4724 −0.044
0.4737 −0.042
0.4764 −0.082
0.4775 −0.103
0.4788 −0.129
0.4798 −0.152
0.4823 −0.193
0.4835 −0.235
0.4845 −0.235
0.4857 −0.263
0.4882 −0.305
0.4894 −0.325
0.4905 −0.350
0.4916 −0.368
0.4946 −0.421
0.4958 −0.426
0.4970 −0.453
0.4982 −0.461
0.5008 −0.471
0.5019 −0.488
0.5031 −0.507
0.5043 −0.520
0.5073 −0.540
0.5084 −0.548
0.5095 −0.558
0.5108 −0.576
0.5132 −0.598
0.5143 −0.605
0.5155 −0.626
0.5166 −0.641
0.5192 −0.656
0.5204 −0.656
0.5216 −0.674
0.5228 −0.685
0.5256 −0.688
0.5268 −0.691
0.5278 −0.690
0.5291 −0.710
0.5314 −0.707
0.5325 −0.703
0.5337 −0.707
0.5348 −0.706
0.5373 −0.716
0.5384 −0.718
0.5395 −0.729
0.5407 −0.720
0.5435 −0.726
0.5446 −0.726
0.5458 −0.723
0.5469 −0.724
0.5494 −0.713
0.5504 −0.704
0.5514 −0.698
0.5526 −0.695
0.5558 −0.690
0.5569 −0.679
0.5580 −0.688
0.5611 −0.662
0.5622 −0.664
0.5632 −0.653

2441091 +
0.4080 −0.072
0.4089 −0.093
0.4101 −0.110
0.4111 −0.111
0.4133 −0.185
0.4143 −0.196
0.4153 −0.207
0.4163 −0.209
0.4192 −0.243
0.4201 −0.260
0.4226 −0.278
0.4250 −0.336

2441092 +
0.5223 +0.122
0.5238 +0.107
0.5262 +0.095
0.5279 +0.091
0.5316 +0.068
0.5332 +0.062
0.5351 +0.056
0.5366 +0.025
0.5398 −0.037
0.5431 −0.078
0.5447 −0.097
0.5479 −0.179
0.5494 −0.203
0.5511 −0.229
0.5528 −0.270
0.5564 −0.327
0.5581 −0.360
0.5598 −0.385
0.5614 −0.393
0.5652 −0.454
0.5676 −0.496
0.5692 −0.513

2441095 +
0.3755 −0.056
0.3771 −0.108
0.3786 −0.135
0.3819 −0.181
0.3833 −0.199
0.3848 −0.225
0.3863 −0.261
0.3897 −0.319
0.3913 −0.352
0.3929 −0.385
0.3944 −0.416
0.3975 −0.482
0.3989 −0.498
0.4006 −0.536

2441108 +
0.3968 +0.098
0.3981 +0.095
0.3992 +0.087
0.4016 +0.055
0.4028 +0.052

0.4052 +0.019
0.4077 +0.007
0.4099 −0.015
0.4109 −0.048
0.4134 −0.075
0.4145 −0.097
0.4155 −0.115
0.4165 −0.131
0.4192 −0.189
0.4204 −0.224
0.4216 −0.236
0.4228 −0.258
0.4252 −0.320
0.4264 −0.342
0.4275 −0.374
0.4287 −0.399
0.4313 −0.427
0.4323 −0.446
0.4335 −0.444
0.4346 −0.461
0.4370 −0.492
0.4381 −0.508
0.4391 −0.515
0.4402 −0.521
0.4426 −0.559
0.4436 −0.555
0.4447 −0.571
0.4458 −0.593
0.4485 −0.602
0.4497 −0.602
0.4509 −0.594
0.4521 −0.615
0.4548 −0.617
0.4563 −0.634
0.4574 −0.640
0.4586 −0.666
0.4613 −0.673
0.4625 −0.688
0.4640 −0.695
0.4654 −0.692
0.4681 −0.703
0.4694 −0.716
0.4705 −0.712
0.4717 −0.716
0.4745 −0.711
0.4756 −0.710
0.4769 −0.703
0.4784 −0.705
0.4812 −0.694
0.4822 −0.698
0.4833 −0.684
0.4844 −0.689
0.4872 −0.680
0.4883 −0.671
0.4894 −0.665
0.4906 −0.658
0.4933 −0.649
0.4944 −0.651
0.4956 −0.632
0.4967 −0.631
0.4994 −0.635
0.5006 −0.626
0.5019 −0.620
0.5030 −0.623

2441117 +
0.4821 −0.129
0.4842 −0.154
0.4863 −0.167
0.4889 −0.208
0.4925 −0.299
0.4944 −0.314
0.4965 −0.356
0.4986 −0.357

2441142 +
0.4220 −0.046
0.4231 −0.079
0.4243 −0.083
0.4254 −0.138
0.4279 −0.162
0.4291 −0.201
0.4301 −0.227
0.4310 −0.239
0.4347 −0.334
0.4357 −0.340
0.4391 −0.416
0.4401 −0.430
0.4411 −0.444
0.4421 −0.447
0.4453 −0.498
0.4468 −0.508
0.4480 −0.530
0.4490 −0.544
0.4517 −0.571
0.4528 −0.581
0.4542 −0.595
0.4557 −0.609
0.4583 −0.630
0.4596 −0.650
0.4607 −0.663
0.4622 −0.667
0.4657 −0.685
0.4668 −0.703
0.4678 −0.721
0.4691 −0.720
0.4751 −0.722
0.4772 −0.734
0.4791 −0.729
0.4841 −0.732
0.4852 −0.725
0.4865 −0.721
0.4890 −0.710
0.4901 −0.708
0.4912 −0.713
0.4924 −0.696
0.4949 −0.682
0.4962 −0.691
0.4973 −0.674
0.4986 −0.669
0.5014 −0.679
0.5025 −0.657

2441147 +
0.5205 −0.045
0.5216 −0.068
0.5228 −0.076
0.5240 −0.105
0.5268 −0.143
0.5279 −0.177
0.5290 −0.203
0.5301 −0.218
0.5328 −0.276
0.5338 −0.297
0.5349 −0.329
0.5359 −0.346
0.5384 −0.393
0.5396 −0.423
0.5407 −0.434
0.5418 −0.450
0.5445 −0.491
0.5459 −0.498
0.5469 −0.501
0.5480 −0.516

2441155 +
0.4485 +0.037
0.4495 +0.031
0.4503 +0.019
0.4513 +0.007
0.4540 −0.020
0.4553 −0.037
0.4563 −0.072
0.4573 −0.070
0.4593 −0.101
0.4603 −0.113
0.4611 −0.135
0.4622 −0.136
0.4645 −0.178
0.4655 −0.221
0.4666 −0.233
0.4677 −0.269
0.4703 −0.286
0.4712 −0.302
0.4722 −0.333
0.4732 −0.351
0.4758 −0.367
0.4769 −0.387
0.4779 −0.415
0.4817 −0.459
0.4826 −0.469
0.4835 −0.463
0.4874 −0.511
0.4888 −0.525
0.4915 −0.527
0.4924 −0.543
0.4933 −0.540
0.4991 −0.605
0.5056 −0.625
0.5063 −0.623
0.5092 −0.634
0.5118 −0.633
0.5128 −0.633
0.5157 −0.647
0.5182 −0.655
0.5190 −0.657
0.5213 −0.652
0.5222 −0.650
0.5245 −0.646
0.5254 −0.656
0.5277 −0.651
0.5286 −0.651
0.5311 −0.641
0.5320 −0.630

2441158 +
0.3415 −0.615
0.3426 −0.625
0.3470 −0.650
0.3484 −0.644
0.3519 −0.660
0.3535 −0.672
0.3558 −0.663
0.3568 −0.659
0.3608 −0.671
0.3619 −0.661
0.3629 −0.650
0.3654 −0.658
0.3664 −0.653
0.3703 −0.643
0.3714 −0.631
0.3722 −0.625
0.3757 −0.627
0.3769 −0.620
0.3781 −0.613
0.3806 −0.627
0.3818 −0.612
0.3828 −0.606
0.3852 −0.597
0.3863 −0.580
0.3874 −0.586
0.3898 −0.595
0.3908 −0.566
0.3919 −0.569
0.3942 −0.567

2441164 +
0.5170 +0.079
0.5178 +0.077
0.5186 +0.066
0.5193 +0.070
0.5201 +0.055
0.5223 +0.026
0.5234 +0.012
0.5243 −0.001
0.5251 −0.008
0.5258 −0.007
0.5280 −0.043
0.5290 −0.058
0.5299 −0.073
0.5308 −0.081
0.5317 −0.087
0.5337 −0.125
0.5348 −0.142
0.5356 −0.150
0.5366 −0.164
0.5374 −0.185
0.5396 −0.228
0.5405 −0.241
0.5413 −0.244
0.5422 −0.255
0.5432 −0.267
0.5456 −0.316
0.5465 −0.325
0.5473 −0.345
0.5482 −0.354
0.5490 −0.370

2441167 +
0.3617 −0.011
0.3628 −0.045
0.3638 −0.071
0.3662 −0.101
0.3670 −0.113
0.3679 −0.132
0.3707 −0.166
0.3716 −0.171
0.3726 −0.196
0.3737 −0.239
0.3759 −0.263
0.3770 −0.309
0.3781 −0.307
0.3807 −0.359
0.3820 −0.372
0.3831 −0.380
0.3841 −0.384
0.3865 −0.402
0.3873 −0.416
0.3883 −0.421
0.3893 −0.433
0.3925 −0.455
0.3936 −0.481
0.3946 −0.496
0.3957 −0.499
0.3991 −0.537
0.4013 −0.548
0.4042 −0.562
0.4054 −0.568
0.4065 −0.594
0.4076 −0.595
0.4096 −0.606
0.4107 −0.625
0.4117 −0.618
0.4128 −0.636
0.4177 −0.654
0.4188 −0.666
0.4210 −0.674
0.4222 −0.684
0.4233 −0.684
0.4245 −0.705
0.4270 −0.710
0.4281 −0.701
0.4291 −0.692
0.4313 −0.698
0.4335 −0.698
0.4346 −0.701
0.4356 −0.703
0.4368 −0.700
0.4392 −0.698
0.4403 −0.690

Table 3.

0.4412 −0.684
0.4424 −0.671
0.4448 −0.669
0.4460 −0.658
0.4470 −0.658
0.4481 −0.663
0.4507 −0.665
0.4519 −0.665
0.4529 −0.651
0.4540 −0.643
0.4564 −0.646
0.4574 −0.629
0.4584 −0.635
0.4619 −0.635
0.4641 −0.607
0.4652 −0.598

2441168 +
0.4711 +0.080
0.4718 +0.083
0.4747 +0.079
0.4756 +0.070
0.4784 +0.094
0.4794 +0.098
0.4837 +0.067
0.4879 +0.051
0.4917 +0.001
0.4937 −0.007
0.4946 −0.013
0.4969 −0.038
0.4979 −0.063
0.5025 −0.159
0.5034 −0.163
0.5066 −0.218
0.5082 −0.248
0.5096 −0.261
0.5123 −0.334
0.5132 −0.338
0.5144 −0.358
0.5157 −0.383
0.5185 −0.401
0.5193 −0.424
0.5205 −0.430

2441176 +
0.4205 +0.082
0.4215 +0.077
0.4223 +0.074
0.4252 +0.031
0.4263 +0.030
0.4273 +0.021
0.4304 −0.029
0.4314 −0.047
0.4324 −0.052
0.4334 −0.062
0.4390 −0.166
0.4400 −0.209
0.4411 −0.221
0.4434 −0.259
0.4445 −0.276
0.4456 −0.312
0.4466 −0.321

0.4492 −0.373
0.4502 −0.417
0.4513 −0.437
0.4523 −0.444
0.4554 −0.485
0.4566 −0.488
0.4577 −0.504
0.4587 −0.514
0.4613 −0.542
0.4629 −0.560
0.4638 −0.566
0.4652 −0.583
0.4681 −0.620
0.4693 −0.638
0.4706 −0.647
0.4717 −0.660
0.4752 −0.703
0.4763 −0.713
0.4775 −0.723
0.4790 −0.738
0.4828 −0.764
0.4840 −0.764
0.4852 −0.766
0.4864 −0.773
0.4895 −0.765
0.4916 −0.756
0.4930 −0.742
0.4967 −0.749
0.4977 −0.746
0.4987 −0.736
0.5014 −0.722
0.5038 −0.709
0.5050 −0.720
0.5072 −0.708
0.5083 −0.704
0.5094 −0.689
0.5105 −0.692
0.5132 −0.695
0.5143 −0.677
0.5154 −0.673
0.5164 −0.676
0.5190 −0.655

2441179 +
0.3244 −0.769
0.3255 −0.778
0.3265 −0.782
0.3275 −0.787
0.3301 −0.789
0.3311 −0.776
0.3321 −0.779
0.3334 −0.767
0.3360 −0.744
0.3370 −0.747
0.3379 −0.751
0.3389 −0.748
0.3420 −0.720
0.3429 −0.711
0.3440 −0.713
0.3449 −0.706
0.3479 −0.688

2441192 +
0.3446 −0.642
0.3454 −0.632
0.3462 −0.650
0.3495 −0.657
0.3506 −0.663
0.3516 −0.655
0.3525 −0.671
0.3547 −0.676
0.3557 −0.667
0.3567 −0.674
0.3601 −0.697
0.3613 −0.692
0.3625 −0.692

2441205 +
0.3374 −0.012
0.3386 −0.046
0.3396 −0.051
0.3417 −0.098
0.3426 −0.098
0.3437 −0.105
0.3457 −0.142
0.3466 −0.173
0.3474 −0.171
0.3498 −0.225
0.3506 −0.249
0.3514 −0.265
0.3536 −0.290
0.3545 −0.294
0.3557 −0.315
0.3582 −0.342
0.3592 −0.356
0.3601 −0.360
0.3609 −0.377
0.3631 −0.397
0.3640 −0.398
0.3649 −0.405
0.3658 −0.403
0.3683 −0.435
0.3693 −0.436
0.3703 −0.445
0.3713 −0.451
0.3738 −0.473
0.3746 −0.479
0.3757 −0.493
0.3767 −0.495
0.3792 −0.526
0.3802 −0.522
0.3812 −0.534
0.3821 −0.537
0.3851 −0.579
0.3861 −0.584
0.3870 −0.588
0.3880 −0.590
0.3910 −0.612
0.3921 −0.627
0.3930 −0.627
0.3940 −0.634
0.3965 −0.656
0.3975 −0.653
0.3985 −0.670

0.3996 −0.662
0.4024 −0.665
0.4033 −0.665
0.4043 −0.669
0.4052 −0.689
0.4078 −0.690
0.4088 −0.686
0.4098 −0.681
0.4108 −0.686
0.4134 −0.681
0.4144 −0.672
0.4154 −0.678
0.4163 −0.676
0.4188 −0.692
0.4199 −0.682
0.4209 −0.672
0.4219 −0.683
0.4245 −0.671
0.4267 −0.655
0.4312 −0.650
0.4326 −0.631

2441213 +
0.2707 +0.063
0.2716 +0.038
0.2727 +0.031
0.2754 −0.015
0.2764 −0.014
0.2774 −0.030
0.2782 −0.034
0.2807 −0.081
0.2817 −0.089
0.2827 −0.117
0.2837 −0.128
0.2864 −0.181
0.2876 −0.214
0.2886 −0.230
0.2896 −0.251
0.2923 −0.315
0.2934 −0.321
0.2944 −0.342
0.2954 −0.351
0.2981 −0.386
0.2991 −0.395
0.3002 −0.417
0.3012 −0.433
0.3042 −0.452
0.3055 −0.490
0.3072 −0.489
0.3083 −0.511
0.3111 −0.563
0.3123 −0.585
0.3133 −0.605
0.3174 −0.627
0.3186 −0.639
0.3198 −0.662
0.3385 −0.766
0.3395 −0.763
0.3405 −0.764
0.3434 −0.768
0.3444 −0.767
0.3456 −0.767

0.3481 −0.770
0.3492 −0.764

2441217 +
0.2489 −0.117
0.2522 −0.181
0.2531 −0.188
0.2561 −0.259
0.2569 −0.284
0.2577 −0.320
0.2586 −0.343
0.2615 −0.392
0.2626 −0.425
0.2647 −0.436
0.2655 −0.447
0.2664 −0.476
0.2672 −0.487
0.2698 −0.500
0.2707 −0.516
0.2717 −0.521
0.2725 −0.539
0.2751 −0.576
0.2765 −0.591
0.2774 −0.603
0.2798 −0.637
0.2808 −0.648
0.2817 −0.649
0.2825 −0.664
0.2844 −0.698
0.2852 −0.703
0.2861 −0.710
0.2869 −0.722
0.2889 −0.743
0.2899 −0.748
0.2921 −0.755
0.2929 −0.767
0.2937 −0.780
0.2945 −0.779
0.2966 −0.782
0.2976 −0.786
0.2985 −0.789
0.2995 −0.788
0.3019 −0.788
0.3028 −0.787
0.3037 −0.797
0.3059 −0.791
0.3070 −0.782
0.3080 −0.793
0.3089 −0.779
0.3106 −0.782
0.3115 −0.762
0.3125 −0.754
0.3134 −0.757
0.3158 −0.753
0.3166 −0.751
0.3174 −0.753
0.3184 −0.742
0.3205 −0.740
0.3214 −0.731
0.3223 −0.727
0.3231 −0.719
0.3253 −0.707

Table 3.

2441226 +
0.3084 −0.058
0.3093 −0.080
0.3100 −0.088
0.3110 −0.124
0.3133 −0.175
0.3142 −0.190
0.3151 −0.195
0.3160 −0.228
0.3182 −0.269
0.3191 −0.304
0.3200 −0.318
0.3210 −0.326
0.3232 −0.365
0.3241 −0.374
0.3250 −0.394
0.3259 −0.400
0.3284 −0.460
0.3293 −0.478
0.3303 −0.487
0.3312 −0.497
0.3335 −0.532
0.3346 −0.534
0.3356 −0.544
0.3366 −0.574
0.3398 −0.604
0.3412 −0.627
0.3421 −0.636
0.3446 −0.662
0.3455 −0.664
0.3466 −0.671
0.3476 −0.679
0.3506 −0.692
0.3516 −0.704
0.3526 −0.710
0.3536 −0.717
0.3563 −0.721
0.3575 −0.728
0.3585 −0.731
0.3594 −0.736
0.3618 −0.742
0.3628 −0.733
0.3639 −0.740
0.3649 −0.737
0.3673 −0.736
0.3684 −0.731
0.3695 −0.716
0.3705 −0.712
0.3754 −0.711
0.3764 −0.699
0.3789 −0.695
0.3813 −0.686

2441230 +
0.2530 +0.095
0.2547 +0.093
0.2566 +0.091
0.2575 +0.094
0.2585 +0.099
0.2617 +0.092
0.2629 +0.077
0.2638 +0.062
0.2661 +0.044
0.2670 +0.033
0.2679 +0.013
0.2700 −0.019
0.2709 −0.016
0.2717 −0.043
0.2726 −0.061
0.2746 −0.089
0.2755 −0.109
0.2764 −0.130
0.2772 −0.152
0.2790 −0.192
0.2800 −0.209
0.2808 −0.224
0.2817 −0.246
0.2835 −0.258
0.2845 −0.300
0.2853 −0.314
0.2861 −0.321
0.2885 −0.359
0.2894 −0.393
0.2902 −0.405
0.2911 −0.408
0.2932 −0.446
0.2943 −0.462
0.2953 −0.466
0.2960 −0.475
0.2979 −0.529
0.2989 −0.532
0.2999 −0.548
0.3031 −0.586
0.3054 −0.599
0.3064 −0.603
0.3084 −0.615
0.3095 −0.629
0.3105 −0.639
0.3115 −0.647
0.3136 −0.648
0.3147 −0.655
0.3157 −0.667
0.3166 −0.669
0.3195 −0.676
0.3218 −0.686
0.3239 −0.689
0.3250 −0.692
0.3259 −0.691
0.3269 −0.707
0.3290 −0.713
0.3300 −0.710
0.3310 −0.717
0.3320 −0.717
0.3342 −0.709
0.3354 −0.712
0.3363 −0.697
0.3373 −0.707
0.3399 −0.693
0.3414 −0.687
0.3445 −0.685
0.3454 −0.679
0.3465 −0.675
0.3475 −0.672
0.3495 −0.657
0.3504 −0.655
0.3512 −0.645
0.3534 −0.639
0.3547 −0.622
0.3556 −0.619
0.3565 −0.624
0.3587 −0.624
0.3596 −0.603
0.3605 −0.608

2441234 +
0.2213 +0.104
0.2226 +0.109
0.2238 +0.098
0.2258 +0.084
0.2266 +0.076
0.2274 +0.071
0.2282 +0.066
0.2304 +0.049
0.2313 +0.048
0.2321 +0.034
0.2328 +0.020
0.2346 +0.017
0.2354 +0.001
0.2362 −0.010
0.2370 −0.009
0.2388 −0.039
0.2394 −0.032
0.2410 −0.071
0.2419 −0.072
0.2443 −0.120
0.2454 −0.138
0.2467 −0.161
0.2475 −0.193
0.2501 −0.238
0.2510 −0.253
0.2518 −0.266
0.2527 −0.287
0.2555 −0.337
0.2570 −0.370
0.2580 −0.400
0.2590 −0.427
0.2611 −0.446
0.2621 −0.457
0.2630 −0.461
0.2669 −0.507
0.2680 −0.518
0.2691 −0.532
0.2702 −0.533
0.2725 −0.550
0.2736 −0.553
0.2752 −0.564
0.2762 −0.565
0.2790 −0.600
0.2801 −0.609
0.2811 −0.613
0.2821 −0.616
0.2855 −0.629
0.2875 −0.630
0.2885 −0.637
0.2898 −0.636
0.2943 −0.640
0.2957 −0.631
0.2975 −0.634
0.2989 −0.646
0.3035 −0.642
0.3048 −0.639
0.3061 −0.638
0.3088 −0.631
0.3098 −0.628
0.3108 −0.623
0.3120 −0.613
0.3149 −0.613
0.3160 −0.610
0.3177 −0.608
0.3187 −0.593
0.3211 −0.592
0.3224 −0.596
0.3237 −0.597
0.3250 −0.592
0.3280 −0.589
0.3301 −0.574

2441235 +
0.3699 −0.014
0.3706 −0.017
0.3712 −0.023
0.3719 −0.036
0.3737 −0.067
0.3746 −0.091
0.3753 −0.096
0.3762 −0.100
0.3779 −0.117
0.3788 −0.136
0.3796 −0.148
0.3804 −0.177
0.3822 −0.206
0.3830 −0.227
0.3838 −0.250
0.3847 −0.267
0.3864 −0.279
0.3871 −0.315
0.3878 −0.318
0.3900 −0.353
0.3916 −0.392
0.3923 −0.420
0.3942 −0.428
0.3950 −0.436
0.3957 −0.451

2441238 +
0.2152 −0.165
0.2160 −0.186
0.2167 −0.205
0.2184 −0.239
0.2200 −0.249
0.2207 −0.279
0.2227 −0.327
0.2241 −0.367
0.2249 −0.378
0.2258 −0.376
0.2277 −0.413
0.2293 −0.444
0.2314 −0.441
0.2321 −0.443
0.2328 −0.440
0.2347 −0.467
0.2354 −0.472
0.2363 −0.489
0.2380 −0.482
0.2395 −0.493
0.2402 −0.485
0.2419 −0.520
0.2427 −0.520
0.2624 −0.589
0.2640 −0.607
0.2647 −0.618
0.2655 −0.620
0.2672 −0.641
0.2680 −0.643
0.2697 −0.642
0.2705 −0.640
0.2712 −0.640
0.2727 −0.641
0.2734 −0.631
0.2751 −0.654
0.2758 −0.649
0.2778 −0.622
0.2786 −0.639
0.2803 −0.635
0.2810 −0.627
0.2825 −0.633
0.2831 −0.642
0.2848 −0.630
0.2858 −0.637
0.2874 −0.622
0.2882 −0.636
0.2891 −0.629
0.2907 −0.598
0.2915 −0.590
0.2923 −0.590

2441243 +
0.2981 +0.082
0.2989 +0.077
0.2996 +0.083
0.3005 +0.080
0.3020 +0.072
0.3028 +0.071
0.3035 +0.056
0.3042 +0.073
0.3060 +0.034
0.3067 +0.033
0.3073 +0.026
0.3079 +0.028
0.3097 +0.017
0.3103 +0.028
0.3109 −0.002
0.3125 +0.003
0.3131 −0.010
0.3139 −0.029
0.3154 −0.055
0.3160 −0.043
0.3166 −0.071
0.3173 −0.083

0.3190 −0.130
0.3196 −0.127
0.3216 −0.154
0.3224 −0.197
0.3242 −0.224
0.3251 −0.233
0.3258 −0.260
0.3274 −0.283
0.3288 −0.289
0.3305 −0.333
0.3312 −0.329
0.3318 −0.334
0.3335 −0.377
0.3343 −0.379
0.3349 −0.381
0.3367 −0.396
0.3373 −0.405
0.3380 −0.392
0.3398 −0.404
0.3407 −0.418
0.3426 −0.437
0.3434 −0.447
0.3461 −0.450
0.3493 −0.464
0.3509 −0.487
0.3515 −0.496
0.3589 −0.528
0.3596 −0.528
0.3625 −0.550
0.3633 −0.568
0.3654 −0.574
0.3672 −0.588
0.3679 −0.603

2441251 +
0.2344 +0.113
0.2369 +0.095
0.2375 +0.093
0.2384 +0.110
0.2408 +0.101
0.2418 +0.095
0.2427 +0.104
0.2443 +0.087
0.2451 +0.058
0.2459 +0.058
0.2484 +0.054
0.2509 +0.011
0.2527 −0.011
0.2553 −0.032
0.2577 −0.072
0.2585 −0.096
0.2603 −0.091
0.2611 −0.105
0.2628 −0.162
0.2635 −0.164
0.2654 −0.200
0.2660 −0.211
0.2676 −0.253
0.2685 −0.273
0.2702 −0.293
0.2710 −0.322
0.2719 −0.340

0.2737 −0.342
0.2745 −0.361
0.2754 −0.370
0.2771 −0.400
0.2779 −0.402
0.2787 −0.409
0.2806 −0.425
0.2815 −0.441
0.2826 −0.456
0.2841 −0.472
0.2850 −0.485
0.2858 −0.481
0.2867 −0.506
0.2885 −0.494
0.2893 −0.505
0.2902 −0.506
0.2920 −0.535
0.2928 −0.533
0.2936 −0.558
0.2944 −0.560
0.2968 −0.583
0.2976 −0.602
0.3004 −0.633
0.3013 −0.643
0.3022 −0.649
0.3030 −0.655
0.3053 −0.672
0.3067 −0.692
0.3075 −0.693
0.3085 −0.706
0.3119 −0.725
0.3130 −0.731
0.3138 −0.730
0.3148 −0.728
0.3170 −0.737
0.3183 −0.738
0.3193 −0.736
0.3208 −0.734
0.3235 −0.738
0.3243 −0.731
0.3251 −0.727
0.3259 −0.739
0.3281 −0.720
0.3290 −0.726
0.3298 −0.728
0.3306 −0.714
0.3325 −0.700
0.3335 −0.708
0.3344 −0.699
0.3353 −0.712
0.3372 −0.700
0.3381 −0.688
0.3389 −0.704
0.3397 −0.692
0.3418 −0.690
0.3428 −0.695
0.3436 −0.690
0.3444 −0.678
0.3465 −0.671
0.3474 −0.668
0.3483 −0.666
0.3491 −0.656

2441260 +
0.3126 +0.076
0.3138 +0.056
0.3224 −0.042
0.3236 −0.089
0.3280 −0.150
0.3315 −0.235
0.3327 −0.277
0.3365 −0.353
0.3387 −0.406
0.3421 −0.477
0.3478 −0.564

2441277 +
0.3120 +0.014
0.3134 −0.028
0.3148 −0.030
0.3161 −0.070
0.3168 −0.069
0.3201 −0.145
0.3234 −0.223
0.3244 −0.238
0.3254 −0.245
0.3271 −0.265
0.3281 −0.281
0.3291 −0.309
0.3308 −0.311
0.3328 −0.349

2441389 +
0.5966 −0.777
0.5979 −0.765
0.5995 −0.756
0.6019 −0.747
0.6030 −0.757
0.6040 −0.754
0.6051 −0.760
0.6074 −0.750
0.6084 −0.740
0.6094 −0.742
0.6106 −0.748
0.6139 −0.719
0.6155 −0.707
0.6165 −0.707
0.6190 −0.692
0.6200 −0.705
0.6255 −0.670
0.6267 −0.674

2441393 +
0.4999 +0.033
0.5009 +0.022
0.5019 +0.008
0.5029 +0.009
0.5052 −0.032
0.5067 −0.034
0.5093 −0.074
0.5103 −0.069
0.5118 −0.099
0.5145 −0.139
0.5155 −0.135

0.5165 −0.178
0.5194 −0.239
0.5204 −0.235
0.5214 −0.264
0.5224 −0.269
0.5242 −0.296
0.5252 −0.321
0.5262 −0.382
0.5272 −0.412
0.5291 −0.450
0.5301 −0.449
0.5311 −0.480
0.5321 −0.509
0.5340 −0.526
0.5350 −0.531
0.5360 −0.538
0.5370 −0.555
0.5393 −0.589
0.5403 −0.589
0.5413 −0.600
0.5423 −0.612
0.5449 −0.630
0.5459 −0.645
0.5469 −0.649
0.5479 −0.665
0.5509 −0.685
0.5519 −0.685
0.5529 −0.693
0.5539 −0.701
0.5563 −0.712
0.5573 −0.707
0.5583 −0.712
0.5593 −0.713
0.5615 −0.717
0.5625 −0.715
0.5635 −0.717
0.5645 −0.722
0.5671 −0.720
0.5681 −0.716
0.5691 −0.713
0.5701 −0.714
0.5719 −0.711
0.5729 −0.718
0.5739 −0.701
0.5775 −0.696
0.5785 −0.690
0.5795 −0.680
0.5805 −0.682
0.5832 −0.670
0.5842 −0.668
0.5852 −0.667
0.5862 −0.657
0.5887 −0.641
0.5897 −0.645
0.5907 −0.637
0.5917 −0.633
0.5940 −0.617
0.5950 −0.613
0.5960 −0.612
0.5970 −0.608
0.5993 −0.600
0.6003 −0.595

0.6013 −0.594
0.6023 −0.586
0.6044 −0.566
0.6054 −0.579
0.6064 −0.555
0.6074 −0.564

2441394 +
0.6208 +0.094
0.6218 +0.095
0.6225 +0.092
0.6232 +0.086
0.6256 +0.096
0.6265 +0.078
0.6273 +0.087
0.6307 +0.079
0.6316 +0.061
0.6328 +0.040
0.6336 +0.044
0.6368 +0.027
0.6377 +0.019
0.6385 +0.021
0.6405 +0.001
0.6414 −0.022
0.6428 −0.037
0.6458 −0.094
0.6472 −0.112
0.6480 −0.132
0.6502 −0.154
0.6512 −0.187
0.6520 −0.183
0.6528 −0.199
0.6549 −0.240
0.6558 −0.258
0.6566 −0.291

2441397 +
0.4819 −0.140
0.4826 −0.148
0.4845 −0.169
0.4854 −0.188
0.4862 −0.202
0.4882 −0.255
0.4893 −0.284
0.4902 −0.308
0.4920 −0.333
0.4930 −0.369
0.4939 −0.401
0.4959 −0.432
0.4968 −0.453
0.4976 −0.465
0.4997 −0.488
0.5005 −0.499
0.5013 −0.503
0.5031 −0.537
0.5039 −0.529
0.5048 −0.538
0.5074 −0.555
0.5084 −0.556
0.5093 −0.557
0.5112 −0.577
0.5121 −0.596

0.5130 −0.594
0.5152 −0.600
0.5162 −0.604
0.5171 −0.616
0.5191 −0.609
0.5201 −0.611
0.5211 −0.620
0.5236 −0.634
0.5246 −0.644
0.5256 −0.646
0.5277 −0.648
0.5287 −0.650
0.5298 −0.648
0.5319 −0.648
0.5329 −0.644
0.5341 −0.655
0.5366 −0.654
0.5380 −0.654
0.5390 −0.653
0.5412 −0.654
0.5422 −0.661
0.5432 −0.660
0.5453 −0.662
0.5462 −0.655
0.5473 −0.646
0.5496 −0.651
0.5507 −0.651
0.5517 −0.636
0.5540 −0.625
0.5557 −0.625
0.5568 −0.623
0.5586 −0.597
0.5595 −0.608
0.5604 −0.608
0.5627 −0.591
0.5639 −0.585
0.5649 −0.587
0.5673 −0.578
0.5683 −0.570
0.5698 −0.565
0.5720 −0.566
0.5732 −0.550
0.5741 −0.541
0.5763 −0.542
0.5773 −0.534
0.5782 −0.530

2441398 +
0.5884 +0.109
0.5912 +0.092
0.5932 +0.097
0.5950 +0.076
0.5960 +0.067
0.5980 +0.060
0.5988 +0.054
0.5997 +0.056
0.6007 +0.049
0.6028 +0.025
0.6037 +0.026
0.6047 +0.001
0.6059 −0.006
0.6111 −0.039
0.6132 −0.067
0.6141 −0.078
0.6150 −0.098
0.6159 −0.119
0.6181 −0.154
0.6194 −0.187
0.6203 −0.194
0.6213 −0.217
0.6232 −0.261
0.6242 −0.277
0.6252 −0.288
0.6261 −0.299
0.6286 −0.356
0.6295 −0.367
0.6305 −0.394
0.6313 −0.408
0.6338 −0.443
0.6352 −0.474
0.6361 −0.478
0.6383 −0.513
0.6395 −0.503
0.6404 −0.511
0.6414 −0.520
0.6433 −0.524
0.6442 −0.530
0.6454 −0.533
0.6463 −0.540
0.6484 −0.557
0.6488 −0.561
0.6493 −0.560
0.6505 −0.558
0.6511 −0.574
0.6516 −0.578
0.6528 −0.581
0.6534 −0.586
0.6539 −0.593
0.6552 −0.588
0.6557 −0.593

2441401 +
0.4785 −0.479
0.4797 −0.479
0.4819 −0.490
0.4829 −0.500
0.4841 −0.504
0.4864 −0.518
0.4875 −0.515
0.4887 −0.514
0.4911 −0.525
0.4921 −0.536
0.4931 −0.540
0.4954 −0.543
0.4965 −0.555
0.4976 −0.553
0.4998 −0.565
0.5010 −0.563
0.5021 −0.561
0.5057 −0.560
0.5070 −0.574
0.5091 −0.567
0.5104 −0.566
0.5114 −0.567
0.5144 −0.580
0.5156 −0.585
0.5168 −0.582
0.5198 −0.594
0.5209 −0.590
0.5231 −0.595
0.5242 −0.587
0.5252 −0.595
0.5278 −0.586
0.5289 −0.595
0.5300 −0.587
0.5326 −0.573
0.5336 −0.574
0.5346 −0.592
0.5368 −0.579
0.5378 −0.588
0.5389 −0.569
0.5413 −0.568
0.5424 −0.562
0.5435 −0.578
0.5457 −0.562
0.5467 −0.563
0.5477 −0.550
0.5502 −0.551
0.5524 −0.553
0.5557 −0.526
0.5568 −0.532
0.5594 −0.503
0.5604 −0.499
0.5614 −0.500

2441402 +
0.5643 +0.109
0.5662 +0.091
0.5672 +0.088
0.5682 +0.088
0.5703 +0.077
0.5712 +0.077
0.5723 +0.078
0.5745 +0.071
0.5764 +0.056
0.5785 +0.042
0.5794 +0.036
0.5804 +0.023
0.5826 −0.001
0.5835 −0.016
0.5845 −0.028
0.5865 −0.042
0.5881 −0.078
0.5891 −0.084
0.5913 −0.125
0.5926 −0.154
0.5946 −0.216
0.5956 −0.223
0.5965 −0.254
0.5988 −0.302
0.5999 −0.310
0.6014 −0.324
0.6035 −0.360
0.6055 −0.375
0.6074 −0.394
0.6082 −0.408
0.6091 −0.415
0.6118 −0.425

2441406 +
0.6071 −0.441
0.6093 −0.481
0.6104 −0.490
0.6134 −0.537
0.6145 −0.542
0.6165 −0.555
0.6175 −0.547
0.6188 −0.551
0.6207 −0.558
0.6227 −0.585
0.6257 −0.604
0.6267 −0.605
0.6285 −0.621
0.6296 −0.616
0.6306 −0.635
0.6326 −0.632
0.6346 −0.623
0.6375 −0.650
0.6387 −0.652
0.6407 −0.645

2441414 +
0.4661 +0.125
0.4670 +0.110
0.4678 +0.125
0.4695 +0.133
0.4704 +0.117
0.4712 +0.139
0.4729 +0.114
0.4737 +0.127
0.4746 +0.141
0.4766 +0.131
0.4775 +0.127
0.4782 +0.116
0.4801 +0.123
0.4809 +0.138
0.4817 +0.133
0.4842 +0.120
0.4857 +0.106
0.4878 +0.099
0.4888 +0.088
0.4897 +0.095
0.4919 +0.083
0.4928 +0.063
0.4937 +0.052
0.4956 +0.031
0.4967 +0.030
0.4976 +0.031
0.5000 +0.008
0.5010 −0.007
0.5019 −0.010
0.5040 −0.040

2441418 +
0.4879 −0.395
0.4887 −0.419
0.4895 −0.441
0.4913 −0.463
0.4932 −0.498
0.4947 −0.523
0.4956 −0.540
0.4965 −0.540
0.4981 −0.559
0.4990 −0.582
0.4998 −0.593
0.5011 −0.624
0.5019 −0.637
0.5028 −0.665
0.5083 −0.742
0.5091 −0.754
0.5102 −0.765
0.5124 −0.778
0.5134 −0.778
0.5161 −0.796
0.5171 −0.818
0.5181 −0.821
0.5199 −0.827
0.5209 −0.827
0.5219 −0.833
0.5240 −0.824
0.5254 −0.816
0.5271 −0.831
0.5281 −0.823
0.5293 −0.810
0.5320 −0.813
0.5334 −0.811
0.5346 −0.806
0.5364 −0.798
0.5374 −0.806
0.5384 −0.797
0.5401 −0.794
0.5411 −0.789
0.5438 −0.763
0.5448 −0.766
0.5458 −0.760
0.5475 −0.744
0.5485 −0.746
0.5495 −0.747
0.5512 −0.745
0.5522 −0.737

2441439 +
0.4141 +0.030
0.4161 +0.010
0.4188 −0.022
0.4198 −0.018
0.4217 −0.034
0.4227 −0.044
0.4237 −0.071
0.4252 −0.104
0.4262 −0.130
0.4272 −0.130
0.4289 −0.149
0.4299 −0.177
0.4309 −0.211
0.4326 −0.244
0.4336 −0.262
0.4346 −0.267
0.4373 −0.309
0.4383 −0.322

0.4400 −0.368
0.4410 −0.409
0.4438 −0.461
0.4458 −0.477
0.4474 −0.486
0.4484 −0.494
0.4494 −0.506
0.4511 −0.532
0.4521 −0.529
0.4531 −0.543
0.4549 −0.542
0.4559 −0.557
0.4569 −0.556
0.4585 −0.574
0.4595 −0.575
0.4605 −0.574
0.4622 −0.570
0.4632 −0.573
0.4642 −0.582
0.4660 −0.597
0.4670 −0.608
0.4680 −0.611
0.4697 −0.605
0.4712 −0.604
0.4743 −0.613
0.4753 −0.607
0.4776 −0.608
0.4791 −0.599
0.4808 −0.605
0.4818 −0.601
0.4828 −0.601
0.4854 −0.595
0.4864 −0.606
0.4882 −0.604
0.4892 −0.606
0.4919 −0.604
0.4939 −0.603
0.4965 −0.598
0.4975 −0.592
0.4993 −0.583
0.5003 −0.585
0.5030 −0.580
0.5040 −0.579
0.5050 −0.572
0.5067 −0.549
0.5077 −0.553
0.5087 −0.535

2441459 +
0.3532 −0.794
0.3544 −0.796
0.3558 −0.793
0.3592 −0.773
0.3606 −0.754
0.3620 −0.751
0.3649 −0.726
0.3661 −0.723
0.3674 −0.697
0.3707 −0.684
0.3721 −0.663
0.3735 −0.657
0.3763 −0.647
0.3777 −0.640
0.3791 −0.639
0.3818 −0.621
0.3849 −0.592
0.3878 −0.576
0.3892 −0.564
0.3930 −0.534
0.3941 −0.538
0.3955 −0.519

2441460 +
0.3757 +0.120
0.3777 +0.121
0.3800 +0.129
0.3809 +0.138
0.3837 +0.124
0.3847 +0.126
0.3857 +0.117
0.3879 +0.131
0.3889 +0.118
0.3899 +0.112
0.3920 +0.102
0.3930 +0.104
0.3940 +0.090
0.3957 +0.099
0.3967 +0.073
0.3999 +0.041
0.4009 +0.041
0.4019 +0.047
0.4040 +0.042
0.4050 +0.041
0.4060 +0.002
0.4080 −0.009
0.4090 −0.019
0.4100 −0.032
0.4121 −0.065
0.4131 −0.073
0.4141 −0.098
0.4160 −0.109
0.4170 −0.146
0.4180 −0.176
0.4203 −0.194
0.4213 −0.217
0.4223 −0.245
0.4243 −0.311
0.4253 −0.316
0.4263 −0.336
0.4280 −0.379
0.4290 −0.402
0.4300 −0.415
0.4328 −0.460
0.4338 −0.491
0.4360 −0.509
0.4370 −0.513
0.4380 −0.539
0.4399 −0.578
0.4409 −0.590
0.4419 −0.592
0.4440 −0.638
0.4450 −0.651
0.4460 −0.654
0.4478 −0.690
0.4488 −0.715
0.4498 −0.733
0.4544 −0.781
0.4565 −0.787
0.4575 −0.814
0.4585 −0.810
0.4604 −0.832
0.4614 −0.831
0.4624 −0.830
0.4644 −0.839
0.4654 −0.852
0.4664 −0.842
0.4686 −0.839
0.4696 −0.838
0.4706 −0.833
0.4730 −0.819
0.4750 −0.814
0.4776 −0.788
0.4786 −0.785
0.4796 −0.773
0.4822 −0.773
0.4832 −0.778
0.4842 −0.775
0.4872 −0.749
0.4882 −0.742
0.4892 −0.734
0.4923 −0.724
0.4933 −0.712
0.4943 −0.694

2441461 +
0.5298 +0.082
0.5315 +0.071
0.5333 +0.080
0.5341 +0.069
0.5349 +0.064
0.5367 +0.056
0.5375 +0.037
0.5383 +0.036
0.5401 −0.003
0.5410 −0.002
0.5419 −0.013
0.5437 −0.038
0.5445 −0.036
0.5453 −0.054
0.5461 −0.084
0.5476 −0.125
0.5484 −0.121
0.5492 −0.153
0.5511 −0.179
0.5519 −0.192
0.5527 −0.201
0.5551 −0.246
0.5561 −0.274
0.5572 −0.298
0.5582 −0.334
0.5599 −0.360

2441473 +
0.4107 +0.088
0.4114 +0.072
0.4122 +0.081
0.4155 +0.059
0.4163 +0.069
0.4181 +0.045
0.4198 +0.032
0.4241 +0.008
0.4248 +0.010
0.4270 −0.009
0.4280 −0.010
0.4289 −0.029
0.4307 −0.058
0.4318 −0.082
0.4326 −0.087
0.4345 −0.115
0.4355 −0.115
0.4364 −0.143
0.4386 −0.212
0.4396 −0.219
0.4404 −0.224
0.4423 −0.279
0.4432 −0.289
0.4442 −0.313
0.4468 −0.375
0.4479 −0.378
0.4486 −0.407
0.4507 −0.465
0.4516 −0.476
0.4525 −0.493
0.4544 −0.517
0.4554 −0.524
0.4563 −0.539
0.4593 −0.587
0.4602 −0.592
0.4611 −0.599
0.4639 −0.634
0.4651 −0.638
0.4671 −0.679
0.4681 −0.676
0.4691 −0.684
0.4710 −0.701
0.4718 −0.718
0.4728 −0.725
0.4748 −0.729
0.4757 −0.734
0.4767 −0.735
0.4788 −0.736
0.4798 −0.735
0.4808 −0.734
0.4827 −0.735
0.4837 −0.733
0.4847 −0.738
0.4869 −0.734
0.4879 −0.743
0.4889 −0.748
0.4910 −0.742
0.4920 −0.735
0.4930 −0.735
0.4952 −0.728
0.4962 −0.723
0.4972 −0.718
0.4996 −0.719
0.5006 −0.707
0.5016 −0.693
0.5040 −0.676
0.5050 −0.667
0.5060 −0.666
0.5086 −0.661
0.5096 −0.670
0.5106 −0.656
0.5126 −0.661
0.5136 −0.647
0.5146 −0.630

2441477 +
0.3942 −0.020
0.3951 −0.024
0.3981 −0.104
0.3996 −0.118
0.4003 −0.147
0.4010 −0.160
0.4027 −0.189
0.4033 −0.219
0.4039 −0.222
0.4062 −0.278
0.4070 −0.300
0.4077 −0.324
0.4093 −0.340
0.4151 −0.467
0.4158 −0.483
0.4165 −0.486
0.4182 −0.493
0.4189 −0.512
0.4198 −0.526
0.4223 −0.540
0.4231 −0.541
0.4239 −0.556
0.4259 −0.563
0.4267 −0.569
0.4275 −0.579
0.4297 −0.589
0.4305 −0.603
0.4312 −0.614
0.4329 −0.622
0.4336 −0.633
0.4345 −0.633
0.4364 −0.639
0.4373 −0.659
0.4382 −0.668
0.4402 −0.669
0.4412 −0.670
0.4420 −0.679
0.4441 −0.673
0.4450 −0.672
0.4459 −0.676
0.4480 −0.683
0.4490 −0.680
0.4499 −0.682
0.4520 −0.685
0.4530 −0.686
0.4541 −0.674
0.4566 −0.661
0.4577 −0.674
0.4586 −0.667
0.4607 −0.662
0.4617 −0.656

0.4626 −0.651
0.4653 −0.643
0.4662 −0.640
0.4671 −0.642
0.4693 −0.630
0.4704 −0.619
0.4714 −0.626
0.4782 −0.599
0.4792 −0.578
0.4804 −0.579

2441485 +
0.3498 −0.184
0.3511 −0.194
0.3532 −0.225
0.3542 −0.230
0.3552 −0.265
0.3571 −0.277
0.3581 −0.308
0.3587 −0.330
0.3608 −0.349
0.3614 −0.359
0.3624 −0.364
0.3643 −0.406
0.3653 −0.420
0.3663 −0.428
0.3678 −0.445
0.3688 −0.432
0.3694 −0.447
0.3713 −0.453
0.3723 −0.452
0.3733 −0.441
0.3755 −0.449
0.3761 −0.444
0.3767 −0.441
0.3790 −0.438
0.3796 −0.442
0.3806 −0.443
0.3824 −0.445
0.3830 −0.447
0.3836 −0.447
0.3858 −0.460
0.3864 −0.469
0.3870 −0.456
0.3890 −0.479
0.3900 −0.476
0.3906 −0.480
0.3925 −0.493
0.3935 −0.497
0.3941 −0.498
0.3956 −0.511
0.3966 −0.515
0.3972 −0.532
0.3990 −0.543
0.3996 −0.545
0.4002 −0.541
0.4025 −0.557
0.4031 −0.555
0.4037 −0.559
0.4057 −0.558
0.4063 −0.565
0.4069 −0.575

0.4089 −0.581
0.4095 −0.582
0.4105 −0.581
0.4119 −0.580
0.4129 −0.577
0.4135 −0.588
0.4154 −0.590
0.4160 −0.591
0.4166 −0.593
0.4182 −0.592
0.4192 −0.595
0.4198 −0.591
0.4213 −0.597
0.4219 −0.594
0.4225 −0.593
0.4244 −0.587
0.4250 −0.582
0.4256 −0.589
0.4276 −0.586
0.4282 −0.597
0.4288 −0.593
0.4311 −0.598
0.4317 −0.595
0.4323 −0.599
0.4338 −0.597
0.4344 −0.598
0.4350 −0.593
0.4365 −0.583
0.4375 −0.584
0.4381 −0.583
0.4404 −0.584
0.4410 −0.576
0.4420 −0.581
0.4435 −0.589
0.4441 −0.573
0.4447 −0.578
0.4466 −0.571
0.4472 −0.574
0.4494 −0.566
0.4504 −0.569
0.4510 −0.570
0.4525 −0.561
0.4531 −0.552
0.4537 −0.539
0.4557 −0.548
0.4563 −0.540
0.4569 −0.549
0.4589 −0.542
0.4595 −0.529
0.4601 −0.528
0.4615 −0.522
0.4621 −0.523
0.4627 −0.529
0.4647 −0.532
0.4659 −0.527
0.4679 −0.529
0.4689 −0.512
0.4695 −0.512
0.4710 −0.497
0.4720 −0.507
0.4726 −0.503
0.4744 −0.499

0.4750 −0.495
0.4760 −0.483

2441489 +
0.3442 −0.341
0.3452 −0.361
0.3464 −0.379
0.3484 −0.381
0.3494 −0.380
0.3505 −0.388
0.3527 −0.382
0.3550 −0.391
0.3573 −0.406
0.3583 −0.408
0.3592 −0.421
0.3660 −0.511
0.3671 −0.505
0.3681 −0.510
0.3719 −0.550
0.3729 −0.563
0.3740 −0.563
0.3764 −0.591
0.3776 −0.598
0.3915 −0.679
0.3926 −0.664
0.3936 −0.675
0.3958 −0.668
0.4005 −0.661
0.4016 −0.663
0.4027 −0.671
0.4138 −0.653
0.4150 −0.643
0.4162 −0.644
0.4185 −0.640
0.4195 −0.630
0.4206 −0.627
0.4225 −0.623
0.4238 −0.612
0.4247 −0.612
0.4272 −0.609
0.4280 −0.601
0.4291 −0.600
0.4317 −0.585
0.4327 −0.579
0.4336 −0.572
0.4356 −0.558

2441490 +
0.4492 −0.004
0.4501 +0.002
0.4521 −0.019
0.4529 −0.052
0.4539 −0.065
0.4559 −0.076
0.4567 −0.099
0.4576 −0.121
0.4594 −0.149
0.4603 −0.167
0.4611 −0.184
0.4631 −0.227
0.4640 −0.232
0.4649 −0.235

0.4669 −0.261
0.4679 −0.282
0.4688 −0.292
0.4709 −0.308
0.4719 −0.329
0.4728 −0.341
0.4750 −0.341
0.4759 −0.342
0.4768 −0.344
0.4793 −0.359
0.4805 −0.359
0.4815 −0.359
0.4835 −0.354
0.4845 −0.349
0.4855 −0.361
0.4876 −0.387
0.4887 −0.394
0.4898 −0.396
0.4921 −0.411
0.4930 −0.431
0.4940 −0.438
0.4965 −0.476
0.4975 −0.489
0.4985 −0.495
0.5089 −0.591
0.5098 −0.599
0.5107 −0.616
0.5132 −0.638
0.5145 −0.653
0.5166 −0.669
0.5176 −0.673
0.5186 −0.681
0.5211 −0.684
0.5222 −0.687
0.5231 −0.696
0.5246 −0.688
0.5256 −0.690
0.5268 −0.691
0.5295 −0.687
0.5309 −0.687
0.5332 −0.700
0.5341 −0.691
0.5351 −0.694
0.5375 −0.678
0.5385 −0.679
0.5395 −0.675
0.5416 −0.674
0.5427 −0.669
0.5438 −0.664

2441498 +
0.3890 +0.032
0.3919 −0.025
0.3971 −0.128
0.3982 −0.165
0.3990 −0.201
0.4007 −0.246
0.4019 −0.277

2441503 +
0.4506 +0.127
0.4516 +0.127

0.4548 +0.138
0.4563 +0.131
0.4580 +0.130
0.4590 +0.127
0.4600 +0.135
0.4617 +0.125
0.4627 +0.109
0.4637 +0.114
0.4654 +0.119
0.4664 +0.110
0.4674 +0.091
0.4691 +0.103
0.4701 +0.079
0.4728 +0.073
0.4738 +0.072
0.4748 +0.048
0.5281 −0.799
0.5291 −0.809
0.5301 −0.814
0.5319 −0.825
0.5329 −0.829
0.5339 −0.831
0.5355 −0.835
0.5365 −0.832
0.5392 −0.825
0.5402 −0.826
0.5412 −0.831
0.5430 −0.811
0.5440 −0.812
0.5450 −0.805
0.5467 −0.813
0.5477 −0.818
0.5487 −0.800
0.5503 −0.797
0.5513 −0.794
0.5523 −0.798
0.5541 −0.778
0.5551 −0.779
0.5578 −0.753
0.5588 −0.749
0.5598 −0.753
0.5614 −0.755
0.5624 −0.746
0.5634 −0.722

2441515 +
0.3786 −0.108
0.3805 −0.148
0.3825 −0.193
0.3832 −0.230
0.3841 −0.244
0.3858 −0.285
0.3869 −0.305
0.3898 −0.342
0.3905 −0.361
0.3913 −0.408
0.3932 −0.448
0.3940 −0.457
0.3948 −0.484
0.3969 −0.524
0.3977 −0.541
0.3985 −0.549

0.4013 −0.564
0.4023 −0.584
0.4033 −0.593
0.4050 −0.623
0.4058 −0.620
0.4074 −0.628
0.4094 −0.653
0.4103 −0.658
0.4112 −0.675
0.4134 −0.696
0.4143 −0.703
0.4245 −0.729
0.4254 −0.740
0.4264 −0.735
0.4289 −0.722
0.4301 −0.732
0.4312 −0.727
0.4336 −0.720
0.4349 −0.716
0.4390 −0.693
0.4399 −0.689
0.4408 −0.690
0.4443 −0.672
0.4453 −0.662
0.4475 −0.664
0.4484 −0.668
0.4493 −0.644
0.4519 −0.644
0.4528 −0.643
0.4539 −0.623
0.4564 −0.618
0.4573 −0.601
0.4602 −0.585
0.4611 −0.576
0.4619 −0.585
0.4640 −0.576
0.4652 −0.565

2441516 +
0.4969 +0.050
0.4979 +0.034
0.4988 +0.026
0.4996 +0.026
0.5021 +0.010
0.5034 −0.006
0.5040 −0.017
0.5066 −0.027
0.5075 −0.047
0.5083 −0.075
0.5092 −0.072
0.5112 −0.113
0.5121 −0.109
0.5129 −0.128
0.5137 −0.150
0.5156 −0.195
0.5165 −0.200
0.5174 −0.249
0.5182 −0.243
0.5204 −0.289
0.5214 −0.303
0.5223 −0.311
0.5233 −0.363
0.5260 −0.412
0.5279 −0.451
0.5288 −0.482
0.5310 −0.510
0.5320 −0.525
0.5329 −0.528
0.5339 −0.532
0.5361 −0.561
0.5370 −0.573
0.5379 −0.591
0.5390 −0.601
0.5411 −0.620
0.5420 −0.630
0.5432 −0.623
0.5442 −0.649
0.5463 −0.653
0.5471 −0.667
0.5480 −0.661
0.5490 −0.664
0.5515 −0.693
0.5524 −0.692
0.5544 −0.696
0.5553 −0.696
0.5562 −0.691
0.5584 −0.693
0.5593 −0.697
0.5614 −0.692
0.5622 −0.692
0.5643 −0.695

2441519 +
0.3513 −0.216
0.3521 −0.229
0.3529 −0.228
0.3556 −0.269
0.3576 −0.303
0.3586 −0.315
0.3803 −0.552
0.3810 −0.562
0.3822 −0.587
0.3846 −0.597
0.3855 −0.599
0.3876 −0.608
0.3896 −0.623
0.3922 −0.623
0.3960 −0.635
0.3981 −0.624
0.3993 −0.625
0.4024 −0.642
0.4048 −0.614
0.4058 −0.625
0.4081 −0.639
0.4121 −0.620
0.4143 −0.614

2441520 +
0.4778 −0.020
0.4786 −0.033
0.4803 −0.064
0.4812 −0.100
0.4827 −0.147
0.4835 −0.154
0.4842 −0.161
0.4861 −0.197
0.4869 −0.200
0.4894 −0.259
0.4903 −0.281
0.4911 −0.284
0.4932 −0.336
0.4939 −0.368
0.4959 −0.406
0.4968 −0.417
0.5026 −0.469
0.5034 −0.491
0.5052 −0.495
0.5064 −0.500
0.5085 −0.515
0.5094 −0.536
0.5114 −0.543
0.5122 −0.539
0.5141 −0.540
0.5149 −0.553
0.5168 −0.561
0.5176 −0.564
0.5195 −0.568
0.5204 −0.561
0.5233 −0.584
0.5261 −0.587
0.5278 −0.589
0.5286 −0.583
0.5315 −0.597
0.5341 −0.599
0.5363 −0.605
0.5373 −0.603
0.5399 −0.598

2441536 +
0.3640 +0.020
0.3650 −0.003
0.3656 +0.001
0.3675 +0.001
0.3685 −0.012
0.3691 −0.021
0.3713 −0.074
0.3723 −0.099
0.3729 −0.111
0.3747 −0.119
0.3753 −0.145
0.3759 −0.151
0.3778 −0.191
0.3784 −0.199
0.3790 −0.225
0.3810 −0.252
0.3816 −0.274
0.3822 −0.281
0.3849 −0.312
0.3855 −0.311
0.3861 −0.333
0.3885 −0.354
0.3891 −0.351
0.3914 −0.375
0.3920 −0.370
0.3926 −0.377
0.3945 −0.418
0.3951 −0.419
0.3957 −0.425
0.3979 −0.453
0.3989 −0.456
0.3999 −0.461
0.4024 −0.501
0.4030 −0.510
0.4057 −0.522
0.4067 −0.558
0.4077 −0.564
0.4099 −0.601
0.4109 −0.619
0.4115 −0.641
0.4136 −0.661
0.4142 −0.682
0.4148 −0.687
0.4171 −0.705
0.4181 −0.711
0.4210 −0.728
0.4216 −0.749
0.4226 −0.749
0.4247 −0.781
0.4257 −0.783
0.4267 −0.769
0.4289 −0.777
0.4296 −0.777
0.4328 −0.772
0.4334 −0.780
0.4344 −0.779
0.4361 −0.772
0.4371 −0.762
0.4381 −0.752
0.4400 −0.751
0.4410 −0.746
0.4439 −0.742
0.4445 −0.733
0.4459 −0.731
0.4476 −0.735
0.4486 −0.741
0.4492 −0.735
0.4536 −0.710
0.4542 −0.696
0.4573 −0.683
0.4583 −0.698

2441537 +
0.4863 +0.141
0.4873 +0.118
0.4925 +0.087
0.4935 +0.079
0.4953 +0.069
0.4959 +0.052
0.4980 +0.019
0.4986 +0.001
0.5009 +0.001
0.5015 −0.019
0.5036 −0.055
0.5042 −0.047
0.5067 −0.081
0.5108 −0.162
0.5126 −0.213
0.5132 −0.232
0.5155 −0.268
0.5161 −0.281
0.5182 −0.295
0.5188 −0.318
0.5206 −0.330
0.5238 −0.373
0.5244 −0.397
0.5262 −0.416
0.5268 −0.436
0.5286 −0.454
0.5292 −0.463
0.5310 −0.473
0.5316 −0.481
0.5338 −0.506
0.5344 −0.505
0.5362 −0.535
0.5372 −0.540
0.5394 −0.567
0.5400 −0.585
0.5414 −0.597
0.5424 −0.633
0.5448 −0.673
0.5474 −0.716
0.5480 −0.732
0.5502 −0.750
0.5508 −0.748
0.5539 −0.761
0.5560 −0.759
0.5568 −0.756
0.5585 −0.770
0.5591 −0.762
0.5613 −0.778
0.5619 −0.784
0.5637 −0.774
0.5643 −0.770
0.5664 −0.773
0.5670 −0.788
0.5696 −0.791
0.5702 −0.786
0.5720 −0.793
0.5726 −0.771
0.5744 −0.779
0.5776 −0.776
0.5786 −0.765
0.5807 −0.747
0.5817 −0.754
0.5842 −0.742

2441540 +
0.3318 +0.006
0.3325 +0.020
0.3363 −0.028
0.3380 −0.081
0.3405 −0.130
0.3422 −0.188
0.3481 −0.308
0.3502 −0.341
0.3519 −0.363
0.3544 −0.418
0.3572 −0.444
0.3588 −0.483
0.3627 −0.531

0.3690 −0.643
0.3710 −0.669
0.3724 −0.706
0.3745 −0.705
0.3794 −0.763
0.3822 −0.803
0.3842 −0.795
0.3882 −0.805
0.3905 −0.818
0.3922 −0.814
0.3940 −0.794
0.3974 −0.787
0.3988 −0.789
0.4021 −0.777
0.4053 −0.767
0.4065 −0.769
0.4081 −0.764
0.4102 −0.756
0.4123 −0.729
0.4140 −0.714
0.4158 −0.730
0.4176 −0.704

2441544 +
0.3304 −0.700
0.3312 −0.701
0.3363 −0.776
0.3373 −0.783
0.3385 −0.782
0.3414 −0.825
0.3425 −0.838
0.3433 −0.837
0.3478 −0.840
0.3492 −0.846
0.3506 −0.840
0.3543 −0.847
0.3555 −0.834
0.3567 −0.838
0.3605 −0.825
0.3616 −0.821
0.3628 −0.801
0.3663 −0.765
0.3677 −0.754
0.3686 −0.770
0.3720 −0.725
0.3730 −0.734

2441561 +
0.2895 −0.031
0.2904 −0.057
0.2912 −0.055
0.2940 −0.102
0.2952 −0.127
0.2962 −0.141
0.2980 −0.210
0.2986 −0.213
0.3020 −0.273
0.3030 −0.303
0.3040 −0.305
0.3069 −0.366
0.3079 −0.391
0.3095 −0.409
0.3103 −0.411
0.3111 −0.438
0.3127 −0.466
0.3137 −0.475
0.3143 −0.490
0.3170 −0.492
0.3182 −0.521
0.3203 −0.517
0.3209 −0.522
0.3215 −0.534
0.3232 −0.549
0.3243 −0.561
0.3251 −0.554
0.3270 −0.566
0.3278 −0.561
0.3284 −0.570
0.3306 −0.571
0.3316 −0.574
0.3326 −0.594
0.3333 −0.598
0.3344 −0.587
0.3356 −0.587
0.3371 −0.589
0.3383 −0.592
0.3390 −0.583
0.3405 −0.586
0.3411 −0.595
0.3421 −0.592
0.3441 −0.603
0.3451 −0.592
0.3459 −0.588
0.3476 −0.614
0.3486 −0.599
0.3496 −0.606
0.3513 −0.594
0.3529 −0.598
0.3544 −0.619
0.3550 −0.613
0.3560 −0.616
0.3580 −0.616
0.3595 −0.601
0.3617 −0.596
0.3627 −0.589
0.3637 −0.583
0.3654 −0.593
0.3664 −0.583
0.3674 −0.591
0.3691 −0.569
0.3701 −0.577
0.3711 −0.560

2441562 +
0.4043 +0.116
0.4052 +0.108
0.4061 +0.094
0.4070 +0.101
0.4090 +0.091
0.4099 +0.073
0.4108 +0.073
0.4129 +0.068
0.4137 +0.058
0.4145 +0.053
0.4165 +0.057
0.4175 +0.022
0.4187 +0.010
0.4207 −0.011
0.4216 −0.015
0.4225 −0.037
0.4244 −0.068
0.4253 −0.075
0.4262 −0.082
0.4282 −0.128
0.4292 −0.144
0.4302 −0.162
0.4322 −0.209
0.4333 −0.216
0.4344 −0.250
0.4362 −0.277
0.4371 −0.289
0.4381 −0.307
0.4405 −0.349
0.4426 −0.376
0.4440 −0.394
0.4464 −0.441
0.4478 −0.454
0.4492 −0.474
0.4523 −0.490
0.4539 −0.497
0.4551 −0.515
0.4585 −0.532
0.4599 −0.543
0.4615 −0.548
0.4648 −0.560
0.4662 −0.566
0.4676 −0.569
0.4711 −0.582
0.4725 −0.580
0.4742 −0.589
0.4780 −0.588
0.4794 −0.581
0.4808 −0.580
0.4842 −0.581
0.4856 −0.580
0.4870 −0.579
0.4904 −0.583
0.4919 −0.583
0.4933 −0.574
0.4964 −0.572
0.4981 −0.581
0.4995 −0.568
0.5026 −0.565
0.5043 −0.554

2441566 +
0.3819 +0.116
0.3833 +0.114
0.3844 +0.115
0.3898 +0.060
0.3912 +0.020
0.3926 +0.004
0.3971 −0.048
0.3985 −0.073
0.3996 −0.076
0.4051 −0.169
0.4062 −0.170
0.4080 −0.189
0.4134 −0.292
0.4148 −0.319
0.4162 −0.335
0.4204 −0.404
0.4549 −0.549
0.4602 −0.552

2441574 +
0.3304 +0.096
0.3314 +0.082
0.3329 +0.083
0.3354 +0.073
0.3360 +0.069
0.3376 +0.039
0.3386 +0.043
0.3411 +0.009
0.3425 −0.006
0.3431 −0.011
0.3454 −0.034
0.3460 −0.066
0.3477 −0.080
0.3483 −0.088
0.3501 −0.117
0.3507 −0.119
0.3529 −0.153
0.3554 −0.195
0.3564 −0.202
0.3578 −0.216
0.3584 −0.240
0.3606 −0.287
0.3633 −0.296
0.3639 −0.309
0.3658 −0.323
0.3668 −0.323
0.3682 −0.321
0.3688 −0.331
0.3703 −0.345
0.3713 −0.348
0.3731 −0.346
0.3737 −0.378
0.3755 −0.391
0.3765 −0.389
0.3779 −0.435
0.3789 −0.432
0.3808 −0.463
0.3814 −0.462
0.3832 −0.484
0.3838 −0.482
0.3855 −0.523
0.3865 −0.539
0.3887 −0.558
0.3897 −0.589
0.3922 −0.594
0.3928 −0.613
0.3947 −0.645
0.3953 −0.646
0.3974 −0.667
0.3980 −0.671
0.4005 −0.690
0.4026 −0.695
0.4032 −0.709
0.4050 −0.714
0.4056 −0.722
0.4075 −0.721
0.4081 −0.722
0.4095 −0.732
0.4101 −0.741
0.4133 −0.734
0.4155 −0.729
0.4161 −0.740
0.4179 −0.726
0.4185 −0.738
0.4217 −0.729
0.4248 −0.745
0.4287 −0.731
0.4308 −0.733
0.4322 −0.710
0.4339 −0.708
0.4349 −0.686
0.4370 −0.688
0.4376 −0.675

2441586 +
0.2597 −0.457
0.2603 −0.479
0.2609 −0.522
0.2639 −0.575
0.2649 −0.583
0.2655 −0.612
0.2680 −0.675
0.2690 −0.677
0.2700 −0.709
0.2729 −0.724
0.2739 −0.735
0.2749 −0.745
0.2778 −0.762
0.2792 −0.786
0.2802 −0.777
0.2830 −0.798
0.2840 −0.801
0.2888 −0.820
0.2902 −0.810
0.2931 −0.807
0.2945 −0.808
0.2951 −0.813
0.2979 −0.808
0.2985 −0.807
0.2999 −0.796
0.3028 −0.792
0.3034 −0.780
0.3048 −0.784
0.3073 −0.783
0.3083 −0.760
0.3097 −0.764
0.3125 −0.732
0.3131 −0.737
0.3145 −0.730

2441591 +
0.3494 −0.434
0.3500 −0.445
0.3506 −0.444

0.3533 −0.510
0.3547 −0.524
0.3561 −0.563
0.3584 −0.597
0.3590 −0.609
0.3596 −0.625
0.3623 −0.658
0.3633 −0.676
0.3639 −0.685
0.3668 −0.707
0.3685 −0.725
0.3709 −0.747
0.3715 −0.764
0.3721 −0.762
0.3748 −0.768
0.3762 −0.774
0.3768 −0.772
0.3797 −0.775
0.3807 −0.789
0.3813 −0.786
0.3838 −0.801
0.3852 −0.802
0.3880 −0.783
0.3894 −0.784
0.3918 −0.794
0.3924 −0.790
0.3946 −0.787
0.3956 −0.781
0.3984 −0.755
0.4019 −0.735
0.4025 −0.725
0.4050 −0.706
0.4060 −0.712
0.4088 −0.707
0.4094 −0.696
0.4123 −0.660

2441607 +
0.2147 −0.124
0.2174 −0.175
0.2181 −0.188
0.2188 −0.213
0.2207 −0.263
0.2214 −0.267
0.2221 −0.261
0.2247 −0.325
0.2254 −0.328
0.2261 −0.366
0.2277 −0.377
0.2284 −0.377
0.2291 −0.387
0.2312 −0.397
0.2319 −0.417
0.2326 −0.415

2441608 +
0.3247 +0.094
0.3254 +0.092
0.3261 +0.098
0.3282 +0.082
0.3296 +0.087
0.3317 +0.091
0.3348 +0.063
0.3372 +0.028
0.3379 +0.021
0.3400 −0.006
0.3407 −0.013
0.3428 −0.020
0.3435 −0.038
0.3455 −0.063
0.3462 −0.076
0.3483 −0.129
0.3490 −0.146
0.3511 −0.162
0.3518 −0.178
0.3539 −0.188
0.3546 −0.218
0.3567 −0.244
0.3574 −0.253
0.3594 −0.285
0.3601 −0.307
0.3622 −0.326
0.3629 −0.331
0.3657 −0.374
0.3678 −0.396
0.3685 −0.384
0.3709 −0.398
0.3761 −0.408
0.3768 −0.401
0.3789 −0.408
0.3796 −0.406
0.3823 −0.425
0.3844 −0.436

2441746 +
0.6340 +0.085
0.6352 +0.090
0.6363 +0.095
0.6395 +0.074
0.6407 +0.071
0.6419 +0.078
0.6452 +0.060
0.6465 +0.040
0.6477 +0.038
0.6506 −0.032
0.6519 −0.031
0.6541 −0.086
0.6593 −0.153
0.6607 −0.209
0.6640 −0.264
0.6656 −0.296
0.6673 −0.334

2441754 +
0.5837 −0.145
0.5844 −0.146
0.5867 −0.194
0.5876 −0.209
0.5884 −0.254
0.5902 −0.315
0.5917 −0.345
0.5934 −0.375
0.5942 −0.385
0.5949 −0.406
0.5975 −0.436
0.5983 −0.460
0.6012 −0.489
0.6021 −0.521
0.6029 −0.517
0.6059 −0.591
0.6069 −0.595
0.6077 −0.611
0.6098 −0.629
0.6107 −0.640
0.6116 −0.650
0.6137 −0.650
0.6159 −0.663
0.6179 −0.711
0.6198 −0.725
0.6220 −0.746
0.6228 −0.753
0.6241 −0.741
0.6261 −0.758
0.6271 −0.757
0.6281 −0.759
0.6304 −0.759
0.6314 −0.765
0.6324 −0.759

2441758 +
0.5226 +0.070
0.5260 +0.069
0.5284 +0.070
0.5308 +0.069
0.5333 +0.050
0.5366 +0.012
0.5377 +0.018
0.5413 −0.025
0.5433 −0.043
0.5455 −0.097
0.5477 −0.114
0.5488 −0.144
0.5498 −0.190
0.5521 −0.236
0.5533 −0.252
0.5544 −0.286
0.5568 −0.329
0.5579 −0.362
0.5591 −0.390
0.5619 −0.446
0.5630 −0.481
0.5641 −0.493
0.5652 −0.515
0.5678 −0.548
0.5702 −0.575
0.5727 −0.616
0.5741 −0.624
0.5755 −0.624
0.5782 −0.664
0.5796 −0.670
0.5811 −0.695
0.5898 −0.730
0.5910 −0.747
0.5922 −0.741
0.5944 −0.749
0.5955 −0.749
0.5967 −0.745
0.5992 −0.742
0.6017 −0.737
0.6042 −0.734
0.6053 −0.735
0.6062 −0.730
0.6089 −0.731
0.6103 −0.736
0.6115 −0.724

2441771 +
0.5728 +0.123
0.5739 +0.124
0.5748 +0.112
0.5784 +0.088
0.5814 +0.053
0.5821 +0.047
0.5843 +0.018
0.5853 +0.011
0.5900 −0.051
0.5908 −0.067
0.5928 −0.096
0.5936 −0.099
0.5954 −0.111
0.5964 −0.129
0.5981 −0.158
0.5991 −0.173
0.6010 −0.231
0.6018 −0.234
0.6040 −0.255
0.6049 −0.288
0.6068 −0.312
0.6072 −0.328
0.6097 −0.377
0.6107 −0.392
0.6127 −0.410
0.6136 −0.411
0.6155 −0.433
0.6165 −0.439
0.6185 −0.438
0.6195 −0.454
0.6225 −0.473
0.6265 −0.467
0.6285 −0.468
0.6298 −0.467

2441791 +
0.4167 +0.059
0.4203 +0.051
0.4246 +0.003
0.4274 −0.043
0.4309 −0.126
0.4319 −0.123
0.4339 −0.192
0.4350 −0.204
0.4375 −0.261
0.4385 −0.282
0.4406 −0.339
0.4439 −0.410
0.4450 −0.438
0.4471 −0.468
0.4481 −0.501
0.4504 −0.542
0.4516 −0.558

2441795 +
0.3876 −0.031
0.3887 −0.057
0.3907 −0.078
0.3916 −0.103
0.3938 −0.124
0.3948 −0.156
0.3967 −0.195
0.3994 −0.248
0.4001 −0.263
0.4032 −0.317
0.4061 −0.367
0.4093 −0.419
0.4104 −0.444
0.4120 −0.474
0.4148 −0.525
0.4156 −0.550
0.4187 −0.572
0.4204 −0.611
0.4214 −0.632
0.4235 −0.656
0.4245 −0.665
0.4265 −0.681
0.4276 −0.687
0.4299 −0.714
0.4308 −0.730
0.4325 −0.739
0.4335 −0.754
0.4363 −0.774
0.4384 −0.773
0.4395 −0.774
0.4419 −0.793
0.4451 −0.786
0.4461 −0.795
0.4483 −0.793
0.4495 −0.792
0.4516 −0.783
0.4526 −0.783
0.4561 −0.772
0.4577 −0.771

2441799 +
0.3635 −0.215
0.3670 −0.291
0.3680 −0.315
0.3709 −0.413
0.3746 −0.474
0.3766 −0.511
0.3776 −0.531
0.3800 −0.574
0.3833 −0.609
0.3844 −0.616
0.3872 −0.658
0.3883 −0.676
0.3909 −0.688
0.3921 −0.691
0.3958 −0.726
0.3979 −0.726
0.4014 −0.744

Table 3.

0.4024 −0.739
0.4051 −0.748
0.4087 −0.755
0.4098 −0.755
0.4132 −0.762
0.4157 −0.760
0.4167 −0.754
0.4201 −0.744
0.4238 −0.706
0.4264 −0.693
0.4295 −0.686
0.4320 −0.673
0.4352 −0.635
0.4362 −0.644

2441804 +
0.4503 +0.044
0.4524 +0.010
0.4532 +0.005
0.4550 −0.021
0.4558 −0.019
0.4575 −0.072
0.4584 −0.071
0.4601 −0.101
0.4609 −0.123
0.4626 −0.163
0.4634 −0.171
0.4654 −0.201
0.4661 −0.230
0.4678 −0.272
0.4686 −0.281
0.4705 −0.352
0.4713 −0.358
0.4729 −0.399
0.4737 −0.403
0.4756 −0.441
0.4764 −0.466
0.4791 −0.523
0.4811 −0.533
0.4819 −0.529
0.4837 −0.543
0.4847 −0.554
0.4866 −0.570
0.4875 −0.576
0.4895 −0.578
0.4905 −0.584
0.4924 −0.604
0.4934 −0.597
0.4962 −0.616
0.4982 −0.624
0.4990 −0.627
0.5011 −0.625
0.5020 −0.634
0.5038 −0.647
0.5046 −0.657
0.5068 −0.647
0.5078 −0.649
0.5104 −0.664
0.5127 −0.662
0.5135 −0.660
0.5156 −0.652
0.5185 −0.662

0.5194 −0.644
0.5257 −0.628
0.5265 −0.636
0.5289 −0.631
0.5298 −0.636
0.5315 −0.635
0.5340 −0.628
0.5349 −0.620
0.5366 −0.601
0.5374 −0.591
0.5398 −0.597

2441808 +
0.4600 −0.541
0.4617 −0.552
0.4628 −0.544
0.4645 −0.560
0.4652 −0.564
0.4680 −0.569
0.4722 −0.590
0.4729 −0.582
0.4750 −0.583
0.4757 −0.572
0.4788 −0.588
0.4805 −0.583
0.4812 −0.598
0.4834 −0.592
0.4867 −0.601
0.4974 −0.580
0.4981 −0.606
0.5104 −0.574
0.5115 −0.577
0.5131 −0.571
0.5138 −0.572

2441816 +
0.3570 +0.057
0.3584 +0.060
0.3605 +0.059
0.3619 +0.030
0.3639 +0.021
0.3653 −0.003
0.3674 −0.016
0.3688 −0.013
0.3723 −0.070
0.3744 −0.108
0.3758 −0.138
0.3778 −0.139
0.3792 −0.160
0.3813 −0.179
0.3827 −0.221
0.3847 −0.254
0.3861 −0.275
0.3896 −0.302
0.3917 −0.337
0.3931 −0.352
0.3952 −0.392
0.3964 −0.412
0.3986 −0.426
0.4021 −0.433
0.4035 −0.421
0.4056 −0.429

0.4070 −0.436
0.4091 −0.448
0.4105 −0.468
0.4125 −0.495
0.4139 −0.490
0.4160 −0.531
0.4174 −0.541
0.4195 −0.555
0.4209 −0.550
0.4230 −0.566
0.4244 −0.576
0.4264 −0.605
0.4278 −0.593
0.4299 −0.602
0.4313 −0.621
0.4334 −0.638
0.4348 −0.627
0.4369 −0.645
0.4383 −0.638
0.4403 −0.643
0.4417 −0.649
0.4438 −0.653
0.4472 −0.644
0.4486 −0.652
0.4507 −0.635
0.4521 −0.653
0.4542 −0.638
0.4556 −0.643
0.4577 −0.649
0.4591 −0.636
0.4611 −0.620
0.4646 −0.625
0.4663 −0.621
0.4670 −0.613
0.4688 −0.609
0.4698 −0.611
0.4716 −0.598
0.4730 −0.591
0.4750 −0.595
0.4764 −0.583

2441820 +
0.3357 +0.005
0.3367 −0.019
0.3390 −0.055
0.3400 −0.070
0.3420 −0.076
0.3430 −0.099
0.3482 −0.193
0.3524 −0.258
0.3534 −0.283
0.3556 −0.287
0.3568 −0.315
0.3592 −0.339
0.3602 −0.356
0.3627 −0.381
0.3696 −0.402
0.3708 −0.409
0.3742 −0.426
0.3777 −0.473
0.3916 −0.607
0.3928 −0.622

0.3954 −0.631
0.3967 −0.639
0.4033 −0.668
0.4044 −0.671
0.4066 −0.689
0.4078 −0.692
0.4115 −0.720
0.4139 −0.730
0.4150 −0.717
0.4171 −0.722
0.4183 −0.723
0.4206 −0.729
0.4217 −0.724
0.4237 −0.705
0.4248 −0.702
0.4282 −0.689
0.4306 −0.685
0.4317 −0.691
0.4358 −0.670
0.4377 −0.659
0.4389 −0.663
0.4410 −0.658
0.4420 −0.637

2441825 +
0.4254 +0.069
0.4262 +0.081
0.4269 +0.086
0.4286 +0.079
0.4293 +0.084
0.4301 +0.065
0.4316 +0.061
0.4323 +0.055
0.4330 +0.059
0.4349 +0.045
0.4357 +0.036
0.4365 +0.038
0.4382 +0.034
0.4390 +0.028
0.4416 −0.027
0.4424 −0.047
0.4432 −0.047
0.4450 −0.062
0.4468 −0.100
0.4494 −0.130
0.4500 −0.141
0.4521 −0.193
0.4529 −0.216
0.4537 −0.241
0.4560 −0.254
0.4568 −0.280
0.4577 −0.296
0.4596 −0.322
0.4605 −0.347
0.4614 −0.368
0.4629 −0.400
0.4637 −0.415
0.4646 −0.413
0.4668 −0.449
0.4678 −0.448
0.4688 −0.461
0.4705 −0.471

0.4714 −0.492
0.4723 −0.498
0.4741 −0.521
0.4749 −0.530
0.4782 −0.606
0.4791 −0.604
0.4800 −0.619
0.4821 −0.645
0.4832 −0.661
0.4841 −0.658
0.4860 −0.683
0.4869 −0.693
0.4878 −0.696
0.4897 −0.731
0.4907 −0.745
0.4937 −0.765
0.4948 −0.778
0.4959 −0.765
0.4977 −0.779
0.4987 −0.772
0.4997 −0.778
0.5019 −0.779
0.5030 −0.775
0.5039 −0.773
0.5058 −0.768
0.5069 −0.777
0.5079 −0.766
0.5140 −0.747
0.5150 −0.755
0.5178 −0.737
0.5186 −0.751
0.5195 −0.743
0.5215 −0.728
0.5222 −0.735
0.5231 −0.730

2441829 +
0.3888 +0.115
0.3901 +0.131
0.3911 +0.116
0.3930 +0.099
0.3938 +0.091
0.3946 +0.074
0.3965 +0.083
0.3973 +0.080
0.3999 +0.022
0.4009 +0.020
0.4018 +0.024
0.4040 +0.016
0.4051 −0.022
0.4061 −0.035
0.4080 −0.062
0.4089 −0.076
0.4116 −0.132
0.4140 −0.154
0.4167 −0.238
0.4175 −0.246
0.4213 −0.317
0.4221 −0.329
0.4240 −0.364
0.4249 −0.366
0.4257 −0.386

0.4279 −0.434
0.4290 −0.461
0.4300 −0.476
0.4319 −0.494
0.4327 −0.503
0.4337 −0.523
0.4357 −0.539
0.4365 −0.553
0.4373 −0.572
0.4393 −0.595
0.4403 −0.615
0.4412 −0.623
0.4437 −0.634
0.4445 −0.653
0.4454 −0.671
0.4471 −0.681
0.4479 −0.693
0.4487 −0.711
0.4510 −0.728
0.4520 −0.727
0.4530 −0.734
0.4552 −0.742
0.4561 −0.741
0.4570 −0.742
0.4597 −0.764
0.4625 −0.773
0.4634 −0.771
0.4653 −0.778
0.4661 −0.784
0.4683 −0.787
0.4692 −0.787
0.4766 −0.763
0.4782 −0.767
0.4802 −0.764
0.4812 −0.750
0.4829 −0.738
0.4838 −0.724
0.4856 −0.710
0.4863 −0.708

2441833 +
0.4050 −0.660
0.4058 −0.663
0.4074 −0.676
0.4083 −0.684
0.4103 −0.728
0.4111 −0.724
0.4129 −0.746
0.4138 −0.757
0.4158 −0.769
0.4167 −0.769
0.4184 −0.774
0.4194 −0.772
0.4217 −0.780
0.4227 −0.782
0.4246 −0.774
0.4275 −0.780
0.4285 −0.779
0.4302 −0.781
0.4312 −0.779
0.4333 −0.777
0.4343 −0.774
0.4363 −0.759
0.4389 −0.745
0.4433 −0.735
0.4444 −0.729
0.4463 −0.706
0.4472 −0.700
0.4491 −0.700
0.4500 −0.693

2441834 +
0.4957 +0.020
0.4965 +0.011
0.4973 +0.009
0.4990 +0.001
0.4999 −0.009
0.5007 −0.031
0.5028 −0.063
0.5037 −0.074
0.5045 −0.079
0.5064 −0.136
0.5072 −0.145
0.5097 −0.165
0.5105 −0.210
0.5115 −0.220
0.5132 −0.243
0.5141 −0.275
0.5149 −0.292
0.5167 −0.308
0.5177 −0.324
0.5185 −0.348
0.5204 −0.362
0.5212 −0.381
0.5221 −0.413
0.5238 −0.430
0.5247 −0.450
0.5255 −0.469
0.5276 −0.500
0.5285 −0.518
0.5293 −0.536
0.5312 −0.547
0.5320 −0.565
0.5328 −0.578
0.5345 −0.593
0.5355 −0.611
0.5363 −0.620
0.5382 −0.644
0.5391 −0.656
0.5401 −0.673
0.5422 −0.687
0.5431 −0.702
0.5441 −0.714
0.5460 −0.715
0.5470 −0.726
0.5480 −0.732
0.5499 −0.734
0.5507 −0.744
0.5517 −0.762
0.5537 −0.759
0.5548 −0.773
0.5559 −0.783
0.5579 −0.789
0.5589 −0.782
0.5600 −0.786

2441842 +
0.4203 +0.082
0.4210 +0.095
0.4234 +0.050
0.4243 +0.040
0.4251 +0.030
0.4267 +0.022
0.4275 +0.017
0.4283 +0.014
0.4316 −0.024
0.4334 −0.046
0.4343 −0.059
0.4351 −0.071
0.4378 −0.157
0.4387 −0.159
0.4405 −0.219
0.4413 −0.232
0.4441 −0.259

2441846 +
0.4006 −0.023
0.4024 −0.076
0.4040 −0.095
0.4049 −0.126
0.4067 −0.151
0.4075 −0.163
0.4094 −0.215
0.4104 −0.231
0.4124 −0.250
0.4133 −0.267
0.4154 −0.316
0.4163 −0.346
0.4184 −0.393
0.4193 −0.417
0.4212 −0.457
0.4221 −0.458
0.4241 −0.474
0.4252 −0.504
0.4272 −0.521
0.4283 −0.532
0.4312 −0.540
0.4334 −0.546
0.4344 −0.562
0.4364 −0.578
0.4374 −0.582
0.4394 −0.582
0.4405 −0.589
0.4426 −0.617
0.4435 −0.622
0.4456 −0.616
0.4466 −0.623
0.4519 −0.650
0.4528 −0.661
0.4551 −0.674
0.4561 −0.682
0.4581 −0.671
0.4601 −0.678
0.4622 −0.662
0.4656 −0.645
0.4666 −0.644
0.4687 −0.652
0.4695 −0.650
0.4718 −0.638
0.4727 −0.642
0.4745 −0.631
0.4755 −0.638
0.4778 −0.624
0.4789 −0.618
0.4839 −0.616
0.4873 −0.601

2441850 +
0.3696 −0.050
0.3703 −0.076
0.3727 −0.084
0.3735 −0.096
0.3755 −0.123
0.3763 −0.124
0.3784 −0.162
0.3819 −0.235
0.3848 −0.299
0.3867 −0.344
0.3876 −0.341
0.3893 −0.381
0.3901 −0.403
0.3920 −0.420
0.3928 −0.427
0.3950 −0.444
0.3959 −0.455
0.3979 −0.470
0.3989 −0.477
0.4008 −0.484
0.4018 −0.486
0.4036 −0.507
0.4046 −0.513
0.4065 −0.519
0.4074 −0.519
0.4097 −0.533
0.4107 −0.529
0.4128 −0.546
0.4138 −0.547
0.4159 −0.564
0.4169 −0.567
0.4189 −0.563
0.4199 −0.576
0.4216 −0.585
0.4226 −0.588
0.4248 −0.591
0.4258 −0.595
0.4281 −0.588
0.4292 −0.596
0.4323 −0.605
0.4341 −0.611
0.4352 −0.611
0.4371 −0.602
0.4381 −0.608
0.4404 −0.596
0.4415 −0.592
0.4435 −0.588
0.4444 −0.595
0.4467 −0.596
0.4479 −0.597
0.4499 −0.586
0.4509 −0.587
0.4524 −0.590
0.4533 −0.595
0.4553 −0.598
0.4564 −0.594
0.4585 −0.603
0.4595 −0.598

2441854 +
0.3495 −0.136
0.3505 −0.160
0.3528 −0.206
0.3538 −0.231
0.3570 −0.300
0.3589 −0.311
0.3598 −0.347
0.3619 −0.349
0.3629 −0.372
0.3651 −0.394
0.3660 −0.399
0.3680 −0.411
0.3688 −0.415
0.3711 −0.418
0.3719 −0.425
0.3766 −0.461
0.3774 −0.460
0.3797 −0.471
0.3806 −0.472
0.3832 −0.491
0.3852 −0.507
0.3860 −0.501
0.3880 −0.524
0.3888 −0.530
0.3908 −0.524
0.3917 −0.531
0.3944 −0.551
0.3963 −0.551
0.3973 −0.556
0.3991 −0.564
0.4019 −0.575
0.4047 −0.594
0.4055 −0.593
0.4099 −0.597
0.4139 −0.601
0.4159 −0.595
0.4167 −0.588
0.4188 −0.593
0.4196 −0.588
0.4218 −0.590
0.4228 −0.607
0.4248 −0.610
0.4257 −0.600

2441859 +
0.4348 +0.120
0.4356 +0.097
0.4373 +0.084
0.4383 +0.067
0.4405 +0.070
0.4413 +0.050
0.4445 +0.026

0.4465 −0.028
0.4476 −0.039
0.4491 −0.044
0.4498 −0.052
0.4518 −0.086
0.4525 −0.097
0.4545 −0.108
0.4554 −0.119
0.4575 −0.168
0.4587 −0.185
0.4603 −0.209
0.4612 −0.229
0.4632 −0.237
0.4641 −0.249
0.4657 −0.281
0.4666 −0.298
0.4685 −0.298
0.4695 −0.309
0.4712 −0.341
0.4746 −0.360
0.4756 −0.373
0.4777 −0.377
0.4788 −0.394
0.4806 −0.417
0.4815 −0.417
0.4825 −0.428
0.4848 −0.440
0.4858 −0.439
0.4880 −0.460
0.4890 −0.455
0.4901 −0.463
0.4926 −0.486
0.4937 −0.507
0.4970 −0.528
0.4992 −0.583
0.5002 −0.585
0.5025 −0.616
0.5035 −0.622
0.5059 −0.629
0.5068 −0.640
0.5089 −0.657
0.5099 −0.657
0.5122 −0.671
0.5131 −0.676
0.5154 −0.678
0.5164 −0.683
0.5214 −0.686
0.5225 −0.682
0.5251 −0.680
0.5262 −0.689
0.5289 −0.690
0.5300 −0.691
0.5328 −0.682
0.5339 −0.682
0.5360 −0.669
0.5370 −0.674

2441867 +
0.3695 +0.126
0.3703 +0.117
0.3719 +0.112
0.3726 +0.109
0.3739 +0.106
0.3746 +0.096
0.3782 +0.063
0.3789 +0.054
0.3803 +0.025
0.3825 +0.002
0.3833 +0.008
0.3848 −0.009
0.3855 −0.009
0.3870 −0.033
0.3876 −0.043
0.3893 −0.084
0.3915 −0.101
0.3922 −0.112
0.3964 −0.212
0.3971 −0.221
0.3986 −0.251
0.3993 −0.265
0.4008 −0.276
0.4016 −0.287
0.4032 −0.344
0.4039 −0.347
0.4053 −0.352
0.4060 −0.378
0.4075 −0.417
0.4082 −0.417
0.4099 −0.425
0.4106 −0.431
0.4121 −0.464
0.4128 −0.460
0.4136 −0.472
0.4143 −0.485
0.4157 −0.487
0.4164 −0.517
0.4186 −0.538
0.4209 −0.558
0.4217 −0.562
0.4236 −0.577
0.4260 −0.606
0.4274 −0.629
0.4280 −0.639
0.4295 −0.642
0.4317 −0.670
0.4324 −0.670
0.4339 −0.696
0.4346 −0.695
0.4386 −0.719
0.4394 −0.733
0.4417 −0.753
0.4433 −0.769
0.4441 −0.775
0.4456 −0.761
0.4463 −0.770
0.4483 −0.769
0.4498 −0.788
0.4504 −0.788
0.4530 −0.790
0.4640 −0.739
0.4647 −0.740
0.4663 −0.736
0.4670 −0.728
0.4686 −0.736
0.4693 −0.714
0.4710 −0.717
0.4718 −0.693

2441872 +
0.4637 +0.097
0.4645 +0.085
0.4664 +0.082
0.4673 +0.098
0.4691 +0.081
0.4700 +0.080
0.4719 +0.060
0.4728 +0.056
0.4755 +0.027
0.4764 +0.019
0.4787 −0.002
0.4795 +0.009
0.4818 −0.035
0.4845 −0.059
0.4854 −0.083
0.4873 −0.106
0.4903 −0.161
0.4912 −0.176
0.4932 −0.216
0.4941 −0.246
0.4961 −0.300
0.4971 −0.323
0.4992 −0.353
0.5001 −0.364
0.5023 −0.397
0.5032 −0.402
0.5050 −0.419
0.5059 −0.455
0.5077 −0.472
0.5092 −0.493
0.5105 −0.534
0.5113 −0.545
0.5132 −0.559
0.5141 −0.583
0.5160 −0.602
0.5169 −0.615
0.5192 −0.632
0.5202 −0.641
0.5221 −0.661
0.5230 −0.673
0.5251 −0.700
0.5261 −0.702
0.5284 −0.722
0.5292 −0.740
0.5311 −0.752
0.5320 −0.740
0.5340 −0.760
0.5365 −0.785
0.5385 −0.794
0.5394 −0.804
0.5414 −0.793
0.5423 −0.802
0.5444 −0.784
0.5454 −0.787
0.5471 −0.790
0.5479 −0.779
0.5508 −0.766
0.5532 −0.760

2441876 +
0.4398 +0.061
0.4407 +0.049
0.4430 +0.022
0.4438 +0.010
0.4455 −0.028
0.4463 −0.051
0.4481 −0.082
0.4490 −0.102
0.4562 −0.248
0.4570 −0.268
0.4588 −0.279
0.4604 −0.333
0.4633 −0.384
0.4642 −0.393
0.4660 −0.417
0.4678 −0.465
0.4696 −0.488
0.4704 −0.527
0.4725 −0.555
0.4734 −0.550
0.4751 −0.596
0.4761 −0.608
0.4800 −0.650
0.4818 −0.665
0.4827 −0.667
0.4849 −0.681
0.4858 −0.687
0.4877 −0.709
0.4886 −0.725
0.4905 −0.764
0.4915 −0.769
0.4934 −0.782
0.4943 −0.779
0.4963 −0.793
0.4972 −0.797
0.4993 −0.794
0.5003 −0.795
0.5026 −0.799
0.5035 −0.795
0.5054 −0.792
0.5064 −0.789
0.5082 −0.791
0.5092 −0.785
0.5110 −0.790
0.5134 −0.769
0.5152 −0.755
0.5162 −0.756
0.5180 −0.743
0.5189 −0.738

2441880 +
0.3975 +0.097
0.3983 +0.092
0.4001 +0.067
0.4010 +0.079
0.4035 +0.048
0.4044 +0.049
0.4061 +0.033
0.4070 +0.013
0.4087 −0.007
0.4097 −0.019
0.4115 −0.061
0.4125 −0.064
0.4149 −0.115
0.4158 −0.134
0.4178 −0.185
0.4187 −0.197
0.4205 −0.240
0.4214 −0.255
0.4235 −0.283
0.4245 −0.316
0.4267 −0.357
0.4276 −0.383
0.4315 −0.446
0.4326 −0.485
0.4335 −0.513
0.4353 −0.533
0.4385 −0.565
0.4396 −0.576
0.4418 −0.591
0.4427 −0.607
0.4450 −0.644
0.4459 −0.652
0.4477 −0.671
0.4486 −0.693
0.4507 −0.706
0.4516 −0.710
0.4540 −0.733
0.4550 −0.740
0.4572 −0.752
0.4581 −0.750
0.4601 −0.755
0.4612 −0.753
0.4632 −0.751
0.4641 −0.749
0.4662 −0.756
0.4671 −0.764
0.4696 −0.764
0.4705 −0.758
0.4725 −0.749
0.4735 −0.743
0.4761 −0.763
0.4772 −0.753
0.4792 −0.741
0.4803 −0.724
0.4828 −0.706
0.4838 −0.713
0.4863 −0.698
0.4875 −0.677

2441884 +
0.4359 −0.707
0.4367 −0.707
0.4421 −0.698
0.4439 −0.704
0.4447 −0.685
0.4472 −0.677
0.4490 −0.676
0.4497 −0.673
0.4517 −0.651
0.4526 −0.638

Table 3.

0.4572 −0.645
0.4581 −0.639
0.4600 −0.642
0.4608 −0.647
0.4629 −0.640
0.4639 −0.627

2441893 +
0.4596 −0.220
0.4631 −0.271
0.4645 −0.314
0.4660 −0.326
0.4676 −0.361
0.4684 −0.373
0.4702 −0.381
0.4710 −0.408
0.4726 −0.440
0.4734 −0.443
0.4750 −0.454
0.4893 −0.508
0.4908 −0.512
0.4925 −0.522
0.4933 −0.538
0.4949 −0.543
0.4967 −0.546
0.4976 −0.544
0.4990 −0.557
0.4998 −0.562
0.5014 −0.554
0.5023 −0.552
0.5041 −0.567
0.5050 −0.574
0.5067 −0.584
0.5076 −0.583
0.5093 −0.570
0.5101 −0.581
0.5118 −0.596
0.5127 −0.580
0.5173 −0.602
0.5183 −0.602
0.5201 −0.605
0.5211 −0.590
0.5230 −0.587
0.5239 −0.597
0.5258 −0.591
0.5268 −0.601
0.5287 −0.595
0.5296 −0.595
0.5315 −0.577
0.5324 −0.584
0.5341 −0.586
0.5350 −0.574
0.5368 −0.580
0.5378 −0.583
0.5396 −0.584
0.5406 −0.569

2441896 +
0.3423 −0.527
0.3438 −0.534
0.3447 −0.548
0.3464 −0.553
0.3471 −0.558
0.3486 −0.564
0.3494 −0.555
0.3520 −0.571
0.3562 −0.580
0.3577 −0.587
0.3641 −0.602
0.3658 −0.609
0.3676 −0.618
0.3690 −0.622
0.3736 −0.619
0.3753 −0.612
0.3788 −0.604
0.3805 −0.615
0.3823 −0.602
0.3841 −0.609
0.3857 −0.613
0.3893 −0.590
0.3911 −0.589
0.3930 −0.581

2441897 +
0.4101 +0.082
0.4118 +0.070
0.4137 +0.063
0.4155 +0.043
0.4172 +0.014
0.4190 −0.014
0.4209 −0.035
0.4226 −0.057
0.4244 −0.074
0.4262 −0.105
0.4280 −0.110
0.4298 −0.130
0.4317 −0.183
0.4337 −0.219
0.4354 −0.259

2441901 +
0.3812 +0.109
0.3820 +0.097
0.3828 +0.079
0.3846 +0.076
0.3854 +0.069
0.3862 +0.042
0.3878 +0.027
0.3886 +0.028
0.3894 +0.031
0.3912 +0.003
0.3920 +0.002
0.3928 −0.006
0.3947 −0.013
0.3955 −0.049
0.3974 −0.056
0.3982 −0.082
0.4000 −0.104
0.4009 −0.118
0.4028 −0.156
0.4037 −0.160
0.4056 −0.182
0.4064 −0.200
0.4083 −0.224
0.4093 −0.255
0.4101 −0.282
0.4120 −0.311
0.4128 −0.322
0.4136 −0.319
0.4156 −0.332
0.4164 −0.361
0.4172 −0.366
0.4192 −0.370
0.4201 −0.374
0.4210 −0.377
0.4229 −0.386
0.4239 −0.387
0.4262 −0.397
0.4271 −0.406
0.4291 −0.429
0.4300 −0.432
0.4308 −0.437
0.4330 −0.441
0.4340 −0.447
0.4349 −0.469
0.4368 −0.484
0.4378 −0.489
0.4401 −0.518
0.4412 −0.537
0.4435 −0.561
0.4441 −0.558
0.4464 −0.601
0.4472 −0.594
0.4493 −0.612
0.4502 −0.610
0.4521 −0.628
0.4531 −0.630
0.4541 −0.635
0.4561 −0.647
0.4570 −0.654
0.4609 −0.663
0.4620 −0.671
0.4641 −0.672
0.4651 −0.679
0.4661 −0.683
0.4683 −0.682
0.4704 −0.689
0.4732 −0.684
0.4744 −0.675
0.4755 −0.677
0.4776 −0.675
0.4786 −0.672
0.4796 −0.665
0.4818 −0.667
0.4828 −0.661
0.4838 −0.657

2441905 +
0.3517 +0.106
0.3527 +0.084
0.3546 +0.083
0.3556 +0.059
0.3576 +0.042
0.3586 +0.048
0.3603 +0.037
0.3613 +0.011
0.3634 +0.008
0.3643 +0.008
0.3662 −0.041
0.3671 −0.047
0.3694 −0.079
0.3704 −0.082
0.3722 −0.118
0.3730 −0.143
0.3751 −0.152
0.3759 −0.181
0.3778 −0.225
0.3787 −0.247
0.3815 −0.296
0.3840 −0.318
0.3851 −0.314
0.3869 −0.361
0.3879 −0.361
0.3900 −0.401
0.3909 −0.415
0.3929 −0.421
0.3938 −0.426
0.3959 −0.449
0.3968 −0.474
0.3985 −0.490
0.3995 −0.497
0.4015 −0.515
0.4024 −0.525
0.4053 −0.559
0.4075 −0.576
0.4085 −0.583
0.4116 −0.614
0.4139 −0.644
0.4149 −0.650
0.4183 −0.694
0.4193 −0.700
0.4214 −0.699
0.4224 −0.714
0.4243 −0.718
0.4254 −0.718
0.4273 −0.730
0.4281 −0.716
0.4303 −0.745
0.4312 −0.743
0.4352 −0.733
0.4363 −0.731
0.4384 −0.742
0.4394 −0.739
0.4414 −0.740
0.4424 −0.738
0.4445 −0.726
0.4456 −0.719
0.4485 −0.694
0.4504 −0.685
0.4515 −0.687

2441906 +
0.4907 +0.065
0.4914 +0.067
0.4933 +0.042
0.4941 +0.026
0.4969 −0.016
0.4977 −0.016
0.4985 −0.025
0.5002 −0.045
0.5010 −0.052
0.5019 −0.058
0.5045 −0.098
0.5055 −0.117
0.5074 −0.148
0.5082 −0.150
0.5092 −0.169
0.5112 −0.200
0.5120 −0.234
0.5129 −0.235
0.5149 −0.280
0.5158 −0.281
0.5167 −0.301
0.5185 −0.321
0.5196 −0.349
0.5207 −0.356
0.5224 −0.378
0.5233 −0.405
0.5243 −0.403
0.5264 −0.434
0.5274 −0.436
0.5283 −0.460
0.5303 −0.475
0.5312 −0.497
0.5322 −0.505
0.5344 −0.515
0.5355 −0.544
0.5365 −0.547
0.5409 −0.610
0.5417 −0.609
0.5434 −0.622
0.5444 −0.632
0.5454 −0.648
0.5472 −0.665
0.5481 −0.671
0.5490 −0.681
0.5523 −0.700
0.5531 −0.693
0.5540 −0.710
0.5559 −0.724
0.5569 −0.736
0.5579 −0.735
0.5599 −0.745
0.5608 −0.745
0.5617 −0.755
0.5635 −0.761
0.5644 −0.772
0.5652 −0.771
0.5670 −0.771
0.5680 −0.778

2441910 +
0.4531 +0.070
0.4549 +0.051
0.4566 +0.019
0.4583 +0.013
0.4639 −0.031
0.4648 −0.050
0.4666 −0.070
0.4693 −0.108

0.4707 −0.114
0.4724 −0.162
0.4814 −0.378
0.4832 −0.394
0.4850 −0.429
0.4868 −0.436
0.4905 −0.500
0.4922 −0.523
0.4938 −0.538
0.4955 −0.545
0.4976 −0.570
0.4982 −0.584
0.5000 −0.596
0.5009 −0.599
0.5030 −0.620
0.5038 −0.624
0.5058 −0.652
0.5068 −0.660
0.5099 −0.694
0.5119 −0.725
0.5136 −0.727
0.5154 −0.750
0.5193 −0.767
0.5271 −0.776
0.5292 −0.760
0.5329 −0.738

2441913 +
0.2993 −0.108
0.3016 −0.134
0.3033 −0.173
0.3043 −0.193
0.3061 −0.204
0.3069 −0.232
0.3088 −0.268
0.3099 −0.298
0.3116 −0.333
0.3132 −0.383
0.3140 −0.394
0.3159 −0.436
0.3169 −0.445
0.3193 −0.478
0.3203 −0.510
0.3219 −0.529
0.3227 −0.543
0.3246 −0.586
0.3256 −0.602
0.3277 −0.625
0.3350 −0.699
0.3434 −0.767
0.3455 −0.779
0.3474 −0.781
0.3529 −0.797
0.3546 −0.806
0.3568 −0.799
0.3585 −0.799
0.3605 −0.791
0.3624 −0.776
0.3642 −0.776
0.3662 −0.771
0.3680 −0.776
0.3704 −0.767
0.3769 −0.717
0.3791 −0.704
0.3811 −0.690
0.3834 −0.675
0.3853 −0.666
0.3874 −0.639
0.3894 −0.631
0.3913 −0.629

2441914 +
0.4151 +0.073
0.4161 +0.080
0.4181 +0.056
0.4191 +0.031
0.4212 +0.026
0.4221 +0.008
0.4250 −0.020
0.4270 −0.024
0.4288 −0.051
0.4307 −0.081
0.4317 −0.119
0.4335 −0.140
0.4344 −0.144
0.4364 −0.180
0.4387 −0.231
0.4398 −0.242
0.4418 −0.301
0.4428 −0.313
0.4450 −0.367
0.4460 −0.373
0.4481 −0.418
0.4491 −0.427
0.4513 −0.462
0.4523 −0.476
0.4545 −0.522
0.4556 −0.536
0.4581 −0.577
0.4591 −0.592
0.4614 −0.623
0.4624 −0.639
0.4647 −0.664
0.4667 −0.678
0.4688 −0.716
0.4710 −0.725
0.4746 −0.757
0.4767 −0.755
0.4787 −0.763
0.4808 −0.760
0.4828 −0.766
0.4844 −0.763
0.4869 −0.749
0.4892 −0.757

2441918 +
0.3996 −0.168
0.4028 −0.264
0.4053 −0.300
0.4074 −0.370
0.4096 −0.434
0.4155 −0.526
0.4176 −0.575
0.4199 −0.597
0.4219 −0.618
0.4244 −0.659
0.4268 −0.671
0.4289 −0.707
0.4311 −0.737
0.4335 −0.753
0.4365 −0.798

2441922 +
0.3462 +0.060
0.3472 +0.040
0.3497 +0.034
0.3508 +0.014
0.3534 −0.014
0.3545 −0.030
0.3576 −0.071
0.3586 −0.084
0.3610 −0.143
0.3620 −0.156
0.3659 −0.242
0.3684 −0.332
0.3694 −0.344
0.3722 −0.380
0.3732 −0.404
0.3754 −0.453
0.3764 −0.467
0.3789 −0.513
0.3801 −0.544
0.3826 −0.572
0.3836 −0.587
0.3858 −0.633
0.3868 −0.642
0.3897 −0.676
0.3948 −0.706
0.3967 −0.723
0.3997 −0.743
0.4053 −0.757
0.4078 −0.774
0.4103 −0.773
0.4128 −0.773
0.4192 −0.752
0.4224 −0.737
0.4272 −0.706
0.4319 −0.692

2441930 +
0.2878 −0.017
0.2888 −0.046
0.2897 −0.069
0.2917 −0.087
0.2925 −0.098
0.2934 −0.122
0.2953 −0.158
0.2962 −0.169
0.2971 −0.183
0.2994 −0.223
0.3003 −0.242
0.3013 −0.279
0.3034 −0.318
0.3041 −0.338
0.3062 −0.369
0.3071 −0.402
0.3091 −0.450
0.3102 −0.465
0.3123 −0.496
0.3133 −0.491
0.3164 −0.534
0.3183 −0.538
0.3193 −0.554
0.3214 −0.559
0.3224 −0.561
0.3245 −0.592
0.3254 −0.586
0.3284 −0.594
0.3302 −0.613
0.3312 −0.615
0.3332 −0.620
0.3341 −0.620
0.3406 −0.631
0.3433 −0.634
0.3451 −0.639
0.3505 −0.623
0.3523 −0.634
0.3531 −0.623
0.3551 −0.633
0.3579 −0.616
0.3613 −0.630
0.3677 −0.609
0.3713 −0.592
0.3756 −0.570

2441931 +
0.4161 +0.064
0.4169 +0.043
0.4185 +0.011
0.4192 +0.011
0.4200 +0.000
0.4216 −0.014
0.4224 −0.030
0.4232 −0.034
0.4248 −0.066
0.4256 −0.070
0.4264 −0.081
0.4282 −0.135
0.4289 −0.153
0.4298 −0.162
0.4315 −0.210
0.4323 −0.225
0.4330 −0.230
0.4346 −0.250
0.4354 −0.262
0.4362 −0.292
0.4378 −0.333
0.4385 −0.334
0.4393 −0.359
0.4410 −0.376
0.4420 −0.396
0.4428 −0.403
0.4453 −0.455
0.4461 −0.475
0.4469 −0.480
0.4486 −0.500
0.4494 −0.507
0.4502 −0.515
0.4517 −0.529
0.4525 −0.530
0.4533 −0.531
0.4551 −0.542
0.4559 −0.547
0.4569 −0.561
0.4586 −0.571
0.4595 −0.576
0.4604 −0.576
0.4623 −0.580
0.4631 −0.575
0.4641 −0.584
0.4658 −0.591
0.4667 −0.580
0.4676 −0.580
0.4697 −0.602
0.4708 −0.593
0.4717 −0.598
0.4737 −0.603
0.4747 −0.599
0.4755 −0.601
0.4774 −0.612
0.4782 −0.614
0.4792 −0.616
0.4813 −0.614
0.4821 −0.607
0.4830 −0.616
0.4869 −0.615
0.4877 −0.612
0.4885 −0.612
0.4903 −0.604
0.4911 −0.609
0.4920 −0.604

2441934 +
0.2660 −0.115
0.2669 −0.153
0.2691 −0.165
0.2700 −0.200
0.2730 −0.236
0.2748 −0.275
0.2756 −0.307
0.2773 −0.329
0.2782 −0.354
0.2801 −0.383
0.2811 −0.387
0.2830 −0.404
0.2840 −0.426
0.2860 −0.450
0.2870 −0.447
0.2889 −0.470
0.2898 −0.467
0.2920 −0.472
0.2928 −0.483
0.2956 −0.500
0.2977 −0.502
0.2986 −0.493
0.3007 −0.497
0.3016 −0.499
0.3036 −0.501
0.3045 −0.505
0.3064 −0.524

0.3073 −0.527
0.3115 −0.543
0.3124 −0.545
0.3142 −0.546
0.3152 −0.547
0.3171 −0.547
0.3181 −0.557
0.3199 −0.550
0.3209 −0.564
0.3228 −0.569
0.3290 −0.574
0.3299 −0.561
0.3319 −0.578
0.3328 −0.566
0.3347 −0.575
0.3358 −0.575
0.3375 −0.571
0.3384 −0.570
0.3405 −0.569
0.3417 −0.570
0.3436 −0.570
0.3446 −0.569

2441935 +
0.3956 −0.058
0.3966 −0.086
0.3985 −0.099
0.3994 −0.112
0.4012 −0.124
0.4023 −0.148
0.4040 −0.171
0.4049 −0.183
0.4066 −0.194
0.4074 −0.215
0.4092 −0.257
0.4101 −0.272
0.4127 −0.332
0.4146 −0.345
0.4155 −0.344
0.4174 −0.375
0.4207 −0.402
0.4217 −0.413
0.4234 −0.434

2441938 +
0.2540 −0.347
0.2550 −0.367
0.2582 −0.388
0.2616 −0.414
0.2625 −0.408
0.2654 −0.431
0.2674 −0.431
0.2683 −0.436
0.2702 −0.443
0.2710 −0.456
0.2733 −0.453
0.2743 −0.452
0.2763 −0.470
0.2772 −0.475
0.2795 −0.475
0.2825 −0.497
0.2834 −0.513
0.2866 −0.520
0.2877 −0.535
0.2898 −0.558
0.2908 −0.553
0.2937 −0.571
0.2981 −0.587
0.2991 −0.585
0.3030 −0.602
0.3042 −0.601
0.3062 −0.608
0.3070 −0.600
0.3089 −0.608
0.3101 −0.614
0.3124 −0.611
0.3135 −0.601
0.3157 −0.603
0.3170 −0.600
0.3191 −0.600
0.3201 −0.617
0.3223 −0.603
0.3254 −0.613
0.3264 −0.611
0.3295 −0.597
0.3314 −0.575
0.3323 −0.585
0.3346 −0.566
0.3356 −0.568

2441939 +
0.3678 −0.037
0.3688 −0.036
0.3705 −0.064
0.3712 −0.087
0.3730 −0.094
0.3739 −0.111
0.3756 −0.141
0.3765 −0.146
0.3784 −0.195
0.3793 −0.200
0.3811 −0.224
0.3821 −0.224
0.3838 −0.259
0.3847 −0.275
0.3867 −0.317
0.3877 −0.320
0.3894 −0.333
0.3903 −0.345
0.3922 −0.362
0.3932 −0.366
0.3954 −0.379
0.3963 −0.388
0.3981 −0.385
0.3990 −0.382
0.4009 −0.389
0.4040 −0.391
0.4050 −0.408
0.4070 −0.422
0.4080 −0.445

2441942 +
0.2583 −0.546
0.2593 −0.566
0.2612 −0.578
0.2622 −0.566
0.2650 −0.611
0.2660 −0.628
0.2678 −0.633
0.2688 −0.644
0.2717 −0.675
0.2736 −0.686
0.2746 −0.695
0.2765 −0.691
0.2774 −0.686
0.2805 −0.692
0.2838 −0.692
0.2857 −0.683
0.2867 −0.686
0.2902 −0.681
0.2923 −0.686
0.2933 −0.672
0.2963 −0.669
0.2985 −0.649
0.2996 −0.658
0.3015 −0.657
0.3056 −0.624
0.3075 −0.622
0.3084 −0.621
0.3104 −0.610
0.3114 −0.598

2441955 +
0.2340 +0.022
0.2349 +0.014
0.2373 +0.003
0.2382 −0.014
0.2402 −0.044
0.2411 −0.043
0.2430 −0.069
0.2439 −0.097
0.2459 −0.155
0.2469 −0.171
0.2514 −0.253
0.2524 −0.255
0.2542 −0.309
0.2550 −0.341
0.2576 −0.395
0.2596 −0.420
0.2605 −0.421
0.2624 −0.477
0.2654 −0.500
0.2663 −0.522
0.2681 −0.543
0.2690 −0.563
0.2719 −0.598
0.2728 −0.624
0.2745 −0.644
0.2754 −0.661
0.2773 −0.669
0.2783 −0.696
0.2802 −0.734
0.2810 −0.740
0.2840 −0.750
0.2886 −0.779
0.2895 −0.790
0.2913 −0.782
0.2923 −0.797
0.2995 −0.796
0.3006 −0.796
0.3026 −0.778
0.3059 −0.782
0.3087 −0.752
0.3115 −0.767
0.3125 −0.760
0.3142 −0.727
0.3152 −0.719

2441959 +
0.2395 −0.700
0.2404 −0.722
0.2424 −0.733
0.2433 −0.743
0.2453 −0.772
0.2463 −0.777
0.2492 −0.788
0.2516 −0.798
0.2527 −0.796
0.2577 −0.804
0.2601 −0.805
0.2624 −0.802
0.2645 −0.791
0.2665 −0.784
0.2705 −0.763
0.2766 −0.723
0.2776 −0.705
0.2804 −0.700
0.2824 −0.692

2441960 +
0.3311 +0.008
0.3326 +0.005
0.3335 −0.026
0.3350 −0.054
0.3358 −0.054
0.3375 −0.076
0.3384 −0.081
0.3409 −0.159
0.3426 −0.163
0.3435 −0.207
0.3451 −0.219
0.3460 −0.255
0.3485 −0.295
0.3495 −0.336
0.3516 −0.393
0.3526 −0.397
0.3545 −0.457
0.3555 −0.467
0.3573 −0.480
0.3583 −0.499
0.3601 −0.562
0.3609 −0.582
0.3627 −0.601
0.3636 −0.617
0.3658 −0.625
0.3668 −0.651
0.3691 −0.674
0.3703 −0.679
0.3723 −0.692
0.3734 −0.708
0.3773 −0.753
0.3782 −0.763
0.3806 −0.769
0.3819 −0.780
0.3841 −0.791
0.3852 −0.793
0.3876 −0.807
0.3888 −0.803
0.3912 −0.798
0.3926 −0.797
0.3947 −0.787
0.3958 −0.787
0.3979 −0.772
0.3990 −0.771

2441963 +
0.2141 −0.776
0.2169 −0.768
0.2193 −0.771
0.2206 −0.778
0.2242 −0.771
0.2266 −0.771
0.2280 −0.748
0.2305 −0.740
0.2318 −0.729
0.2359 −0.722
0.2370 −0.728
0.2394 −0.695
0.2406 −0.693

2441965 +
0.4272 +0.002
0.4284 +0.011
0.4320 −0.025
0.4344 −0.064
0.4356 −0.089
0.4391 −0.151
0.4415 −0.225
0.4429 −0.250
0.4456 −0.317
0.4466 −0.335
0.4490 −0.383
0.4536 −0.507

2441980 +
0.2058 −0.379
0.2077 −0.385
0.2085 −0.376
0.2103 −0.399
0.2113 −0.400
0.2137 −0.402
0.2148 −0.411
0.2168 −0.416
0.2197 −0.441
0.2207 −0.444
0.2223 −0.444
0.2231 −0.450
0.2250 −0.448
0.2259 −0.453
0.2278 −0.449

Table 3.

0.2287 −0.450
0.2304 −0.474
0.2311 −0.490
0.2328 −0.492
0.2335 −0.494
0.2352 −0.523
0.2377 −0.545
0.2387 −0.557
0.2410 −0.567
0.2420 −0.584
0.2438 −0.608
0.2447 −0.605
0.2465 −0.616
0.2474 −0.620
0.2493 −0.622
0.2503 −0.632
0.2530 −0.624
0.2558 −0.631
0.2576 −0.639
0.2585 −0.635
0.2598 −0.640
0.2606 −0.642
0.2626 −0.638
0.2646 −0.637
0.2655 −0.628
0.2672 −0.635
0.2679 −0.636
0.2697 −0.636
0.2705 −0.629
0.2720 −0.637
0.2729 −0.630
0.2748 −0.623
0.2757 −0.621
0.2770 −0.615
0.2777 −0.613
0.2799 −0.613
0.2808 −0.614
0.2824 −0.609
0.2831 −0.612
0.2845 −0.600
0.2852 −0.589
0.2868 −0.584
0.2877 −0.589
0.2896 −0.581
0.2905 −0.570
0.2922 −0.580
0.2929 −0.574

2441981 +
0.3078 +0.057
0.3085 +0.056
0.3102 +0.055
0.3111 +0.037
0.3130 −0.006
0.3140 −0.021
0.3158 −0.027
0.3166 −0.039
0.3185 −0.068
0.3193 −0.084
0.3210 −0.090
0.3219 −0.111
0.3236 −0.165
0.3245 −0.168
0.3265 −0.201
0.3274 −0.214
0.3293 −0.273
0.3302 −0.281
0.3321 −0.304
0.3329 −0.315
0.3348 −0.317
0.3370 −0.346
0.3379 −0.371
0.3397 −0.387

2441984 +
0.2012 −0.533
0.2020 −0.546
0.2038 −0.564
0.2073 −0.612
0.2089 −0.627
0.2136 −0.645
0.2153 −0.660
0.2211 −0.688
0.2228 −0.688
0.2245 −0.692
0.2263 −0.692
0.2280 −0.692
0.2298 −0.687
0.2320 −0.671
0.2336 −0.669
0.2355 −0.681
0.2374 −0.662
0.2391 −0.673
0.2408 −0.665
0.2445 −0.665
0.2468 −0.646
0.2487 −0.644

2441985 +
0.2834 +0.019
0.2843 +0.027
0.2858 −0.017
0.2867 −0.033
0.2884 −0.071
0.2910 −0.091
0.2925 −0.099
0.2941 −0.128
0.2971 −0.181
0.2987 −0.218
0.3019 −0.288
0.3035 −0.335
0.3069 −0.341

2441989 +
0.2476 +0.065
0.2494 +0.032
0.2528 −0.001
0.2550 −0.001
0.2558 −0.001
0.2574 −0.022
0.2584 −0.033
0.2608 −0.064
0.2625 −0.107
0.2634 −0.105
0.2659 −0.178
0.2719 −0.280
0.2728 −0.285
0.2749 −0.340
0.2757 −0.364
0.2786 −0.383
0.2806 −0.417
0.2815 −0.421
0.2838 −0.443
0.2848 −0.450
0.2869 −0.473
0.2877 −0.489
0.2896 −0.519
0.2904 −0.536
0.2923 −0.549
0.2931 −0.559
0.2950 −0.584
0.2958 −0.582
0.2977 −0.615
0.2986 −0.624
0.3006 −0.649
0.3014 −0.665
0.3037 −0.674
0.3047 −0.691
0.3064 −0.704
0.3074 −0.721
0.3103 −0.740
0.3120 −0.747
0.3130 −0.753
0.3148 −0.760
0.3158 −0.769
0.3179 −0.768
0.3208 −0.778
0.3219 −0.771
0.3249 −0.752
0.3268 −0.753
0.3296 −0.744
0.3305 −0.748
0.3347 −0.744
0.3357 −0.748
0.3375 −0.748

2441997 +
0.2214 −0.687
0.2223 −0.720
0.2257 −0.744
0.2277 −0.776
0.2307 −0.793
0.2340 −0.803
0.2352 −0.801
0.2384 −0.815
0.2403 −0.826
0.2413 −0.810
0.2433 −0.807
0.2442 −0.804
0.2474 −0.816
0.2504 −0.821
0.2528 −0.815

2441998 +
0.3133 +0.015
0.3152 −0.002
0.3171 −0.049
0.3209 −0.128
0.3245 −0.159
0.3282 −0.277
0.3300 −0.286
0.3344 −0.405

2442001 +
0.1979 −0.758
0.2009 −0.786
0.2049 −0.771
0.2069 −0.751
0.2106 −0.755
0.2122 −0.733
0.2140 −0.732
0.2176 −0.726
0.2192 −0.733
0.2207 −0.709
0.2224 −0.706
0.2243 −0.712
0.2261 −0.675
0.2278 −0.672
0.2313 −0.676

2442094 +
0.6513 +0.041
0.6536 +0.053
0.6573 +0.006
0.6592 −0.009
0.6611 −0.014
0.6630 −0.023
0.6647 −0.032
0.6666 −0.077
0.6684 −0.085
0.6703 −0.124
0.6740 −0.175
0.6759 −0.212
0.6778 −0.256
0.6796 −0.273
0.6814 −0.299
0.6830 −0.340
0.6889 −0.479
0.6907 −0.499

2442098 +
0.6263 +0.083
0.6271 +0.062
0.6293 +0.058
0.6303 +0.058
0.6322 +0.043
0.6334 +0.046
0.6355 −0.001
0.6365 −0.001
0.6387 −0.020
0.6397 −0.039
0.6417 −0.063
0.6425 −0.078
0.6484 −0.181
0.6494 −0.182
0.6516 −0.213
0.6525 −0.241
0.6546 −0.287
0.6555 −0.296
0.6577 −0.334
0.6586 −0.367
0.6612 −0.387
0.6622 −0.416
0.6631 −0.427
0.6648 −0.433
0.6659 −0.430
0.6682 −0.437
0.6692 −0.439
0.6702 −0.454

2442106 +
0.5682 +0.145
0.5702 +0.137
0.5721 +0.119
0.5777 +0.106
0.5797 +0.075
0.5817 +0.071
0.5884 −0.019
0.5925 −0.081
0.5946 −0.115
0.5966 −0.145
0.5987 −0.186
0.6009 −0.234
0.6030 −0.281
0.6051 −0.304
0.6075 −0.329
0.6100 −0.343
0.6121 −0.364
0.6143 −0.367
0.6224 −0.413
0.6244 −0.438
0.6264 −0.434
0.6283 −0.446
0.6306 −0.482
0.6326 −0.514
0.6363 −0.562
0.6383 −0.580
0.6403 −0.613
0.6426 −0.630
0.6447 −0.654
0.6468 −0.668
0.6490 −0.685
0.6510 −0.707
0.6520 −0.701
0.6541 −0.723
0.6556 −0.718
0.6574 −0.718
0.6605 −0.727
0.6617 −0.724
0.6638 −0.717
0.6657 −0.725
0.6676 −0.712
0.6695 −0.695

2442127 +
0.5430 −0.003
0.5447 −0.039
0.5464 −0.080
0.5490 −0.174
0.5509 −0.192

0.5525 −0.239
0.5544 −0.303
0.5559 −0.328
0.5591 −0.399
0.5627 −0.477
0.5647 −0.505
0.5687 −0.578
0.5711 −0.599
0.5732 −0.642
0.5753 −0.659
0.5772 −0.689
0.5789 −0.710
0.5846 −0.754
0.5864 −0.771
0.5879 −0.769
0.5906 −0.769
0.5947 −0.771
0.5969 −0.764
0.6012 −0.758
0.6035 −0.750
0.6057 −0.739
0.6078 −0.722
0.6098 −0.716

2442135 +
0.4816 −0.080
0.4839 −0.127
0.4858 −0.179
0.4877 −0.212
0.4897 −0.274
0.4918 −0.317
0.4940 −0.338
0.4963 −0.372
0.4983 −0.433
0.5035 −0.493
0.5057 −0.509
0.5095 −0.522
0.5118 −0.552
0.5139 −0.561
0.5164 −0.567
0.5250 −0.586
0.5296 −0.590
0.5319 −0.598
0.5341 −0.613
0.5364 −0.605
0.5423 −0.590
0.5472 −0.591
0.5492 −0.585
0.5514 −0.576
0.5538 −0.580
0.5560 −0.577

2442136 +
0.5986 +0.073
0.5995 +0.078
0.6013 +0.059
0.6021 +0.061
0.6048 +0.037
0.6067 +0.021
0.6075 +0.001
0.6094 −0.003
0.6102 −0.004
0.6122 −0.040
0.6130 −0.048
0.6149 −0.064
0.6157 −0.065
0.6176 −0.108
0.6184 −0.126
0.6201 −0.151
0.6209 −0.167
0.6230 −0.206
0.6236 −0.202
0.6254 −0.239
0.6262 −0.273
0.6292 −0.330
0.6311 −0.361
0.6320 −0.373

2442140 +
0.5787 +0.056
0.5844 −0.010
0.5865 −0.031
0.5883 −0.046
0.5901 −0.095
0.5918 −0.118
0.5936 −0.147
0.5954 −0.174
0.5972 −0.194
0.5991 −0.235
0.6030 −0.314
0.6051 −0.325
0.6068 −0.358
0.6085 −0.378
0.6102 −0.391
0.6120 −0.399
0.6137 −0.413

2442144 +
0.5841 −0.362
0.5859 −0.378
0.5878 −0.367
0.5888 −0.375
0.5919 −0.380
0.5987 −0.402
0.6007 −0.407
0.6027 −0.415
0.6067 −0.465
0.6088 −0.464
0.6111 −0.502
0.6133 −0.523
0.6154 −0.536
0.6176 −0.542
0.6195 −0.559
0.6218 −0.585
0.6239 −0.607
0.6260 −0.606
0.6282 −0.603

2442148 +
0.5204 +0.102
0.5221 +0.089
0.5229 +0.082
0.5254 +0.072
0.5279 +0.069
0.5298 +0.051
0.5307 +0.052
0.5325 +0.015
0.5335 +0.014
0.5352 −0.021
0.5361 −0.031
0.5378 −0.048
0.5386 −0.061
0.5404 −0.097
0.5413 −0.118
0.5432 −0.138
0.5441 −0.180
0.5460 −0.209
0.5470 −0.232
0.5489 −0.248
0.5498 −0.255
0.5519 −0.312
0.5527 −0.312
0.5549 −0.345
0.5558 −0.355
0.5579 −0.370
0.5589 −0.369
0.5607 −0.373
0.5617 −0.377
0.5639 −0.385
0.5673 −0.429
0.5699 −0.453
0.5711 −0.466
0.5738 −0.509
0.5748 −0.501
0.5771 −0.540
0.5780 −0.563
0.5796 −0.571
0.5806 −0.587
0.5843 −0.616
0.5894 −0.664
0.5915 −0.686
0.5935 −0.698
0.5955 −0.723
0.5995 −0.732
0.6013 −0.722
0.6036 −0.727
0.6058 −0.739
0.6078 −0.741
0.6099 −0.729
0.6120 −0.731
0.6140 −0.725

2442152 +
0.4806 +0.093
0.4815 +0.101
0.4834 +0.091
0.4842 +0.102
0.4863 +0.111
0.4870 +0.107
0.4889 +0.094
0.4897 +0.100
0.4917 +0.082
0.4926 +0.069
0.4943 +0.074
0.4952 +0.054
0.4970 +0.054
0.4978 +0.032
0.5003 +0.018
0.5012 +0.011
0.5033 −0.023
0.5043 −0.040
0.5064 −0.063
0.5074 −0.090
0.5096 −0.097
0.5106 −0.120
0.5129 −0.176
0.5138 −0.193
0.5161 −0.220
0.5190 −0.295
0.5223 −0.333
0.5235 −0.372
0.5275 −0.424
0.5295 −0.443
0.5312 −0.484
0.5327 −0.494
0.5335 −0.514
0.5356 −0.548
0.5366 −0.561
0.5389 −0.605
0.5400 −0.637
0.5425 −0.652
0.5443 −0.671
0.5468 −0.701
0.5479 −0.710
0.5500 −0.726
0.5514 −0.743
0.5534 −0.742
0.5545 −0.759
0.5565 −0.775
0.5575 −0.789
0.5599 −0.784
0.5609 −0.799
0.5639 −0.817
0.5662 −0.810
0.5673 −0.808
0.5694 −0.794
0.5704 −0.808
0.5724 −0.806
0.5734 −0.808
0.5753 −0.802
0.5764 −0.798

2442177 +
0.4187 +0.077
0.4204 +0.017
0.4254 −0.054
0.4273 −0.084
0.4291 −0.123
0.4311 −0.146
0.4329 −0.180
0.4558 −0.453
0.4600 −0.492
0.4647 −0.516
0.4668 −0.521
0.4709 −0.537
0.4731 −0.543
0.4750 −0.541
2442186 +
0.5254 −0.257
0.5283 −0.283
0.5299 −0.303
0.5314 −0.320
0.5349 −0.356
0.5365 −0.365
0.5385 −0.370
0.5432 −0.384
0.5449 −0.397
0.5469 −0.402
0.5475 −0.416
0.5492 −0.438
0.5498 −0.452
0.5516 −0.456
0.5526 −0.468
0.5543 −0.474
0.5551 −0.494
0.5572 −0.505
0.5591 −0.522
0.5610 −0.566
0.5631 −0.585
0.5651 −0.592
0.5670 −0.613
0.5691 −0.629
0.5709 −0.646
0.5728 −0.649
0.5747 −0.670
0.5755 −0.693
0.5764 −0.699
0.5775 −0.700
0.5784 −0.695

2442189 +
0.3430 +0.039
0.3529 −0.124
0.3595 −0.233
0.3619 −0.270
0.3679 −0.333
0.3709 −0.388
0.3729 −0.410
0.3935 −0.587
0.4078 −0.703
0.4148 −0.736
0.4185 −0.743
0.4308 −0.745
0.4344 −0.735

2442193 +
0.3260 −0.204
0.3270 −0.233
0.3284 −0.247
0.3294 −0.268
0.3304 −0.307
0.3314 −0.317
0.3335 −0.366
0.3345 −0.368
0.3368 −0.422
0.3379 −0.432
0.3510 −0.612
0.3529 −0.625
0.3547 −0.657

Table 3.

0.3585 −0.686
0.3622 −0.722
0.3642 −0.748
0.3720 −0.800
0.3755 −0.825
0.3774 −0.828
0.3817 −0.814
0.3840 −0.821
0.3863 −0.796
0.3887 −0.792
0.3908 −0.761
0.3929 −0.742
0.3948 −0.733

2442194 +
0.4395 +0.040
0.4427 +0.022
0.4437 +0.017
0.4458 −0.003
0.4465 −0.028
0.4492 −0.046
0.4511 −0.061
0.4527 −0.103
0.4544 −0.152
0.4564 −0.185
0.4579 −0.202
0.4596 −0.231
0.4613 −0.265
0.4621 −0.303
0.4638 −0.321
0.4646 −0.354
0.4663 −0.374
0.4671 −0.395
0.4689 −0.398
0.4697 −0.423
0.4713 −0.435
0.4722 −0.442
0.4739 −0.489
0.4748 −0.493
0.4756 −0.516
0.4774 −0.539
0.4784 −0.553
0.4793 −0.568
0.4801 −0.576
0.4813 −0.607
0.4821 −0.611
0.4829 −0.619
0.4856 −0.660
0.4872 −0.674
0.4891 −0.679
0.4900 −0.704
0.4912 −0.713
0.4933 −0.752
0.4943 −0.744
0.4963 −0.774
0.4974 −0.785
0.4983 −0.792
0.5001 −0.796
0.5027 −0.816
0.5036 −0.816
0.5056 −0.821
0.5068 −0.828
0.5085 −0.819
0.5093 −0.816
0.5112 −0.817
0.5121 −0.815
0.5128 −0.806
0.5155 −0.794
0.5177 −0.790
0.5187 −0.783
0.5209 −0.775
0.5217 −0.776

2442198 +
0.4148 −0.146
0.4165 −0.210
0.4184 −0.234
0.4202 −0.253
0.4219 −0.288
0.4236 −0.305
0.4296 −0.418
0.4312 −0.457
0.4370 −0.576
0.4386 −0.599
0.4436 −0.652
0.4452 −0.697
0.4543 −0.771
0.4562 −0.796
0.4580 −0.820
0.4597 −0.822
0.4618 −0.827
0.4663 −0.830
0.4764 −0.785
0.4783 −0.779
0.4801 −0.787

2442202 +
0.3689 −0.022
0.3698 −0.023
0.3715 −0.038
0.3723 −0.069
0.3742 −0.101
0.3751 −0.132
0.3770 −0.149
0.3780 −0.170
0.3798 −0.205
0.3805 −0.233
0.3828 −0.273
0.3837 −0.312
0.3859 −0.350
0.3868 −0.368
0.3888 −0.413
0.3898 −0.432
0.3926 −0.510
0.3944 −0.554
0.3955 −0.561
0.3975 −0.595
0.3985 −0.603
0.4004 −0.635
0.4016 −0.656
0.4036 −0.671
0.4046 −0.681
0.4067 −0.732
0.4077 −0.747
0.4098 −0.763
0.4108 −0.784
0.4137 −0.799
0.4162 −0.814
0.4175 −0.817
0.4206 −0.818
0.4223 −0.814
0.4234 −0.819
0.4256 −0.826
0.4267 −0.824
0.4311 −0.798
0.4323 −0.801
0.4346 −0.784
0.4378 −0.767
0.4390 −0.759

2442203 +
0.4956 +0.051
0.4980 −0.005
0.5000 −0.004
0.5021 −0.028
0.5040 −0.078
0.5079 −0.167
0.5179 −0.358
0.5216 −0.426
0.5237 −0.446

2442206 +
0.3433 −0.249
0.3448 −0.267
0.3456 −0.316
0.3472 −0.345
0.3480 −0.396
0.3498 −0.414
0.3506 −0.445
0.3524 −0.493
0.3548 −0.533
0.3567 −0.562
0.3604 −0.617
0.3621 −0.629
0.3640 −0.664
0.3649 −0.683
0.3666 −0.685
0.3697 −0.721
0.3716 −0.726
0.3750 −0.753
0.3770 −0.756
0.3789 −0.773
0.3829 −0.794
0.3847 −0.784
0.3858 −0.782
0.3879 −0.790
0.3899 −0.781
0.3920 −0.779
0.3942 −0.774
0.3963 −0.758

2442207 +
0.4608 +0.038
0.4631 −0.024
0.4672 −0.075
0.4710 −0.165
0.4748 −0.233

2442215 +
0.3915 +0.033
0.3922 +0.041
0.3947 +0.021
0.3983 −0.027
0.4002 −0.054
0.4022 −0.086
0.4040 −0.131
0.4058 −0.140
0.4075 −0.181
0.4092 −0.218
0.4108 −0.227
0.4127 −0.269
0.4146 −0.330
0.4166 −0.345
0.4173 −0.374
0.4190 −0.420
0.4211 −0.465
0.4229 −0.492
0.4248 −0.503
0.4266 −0.528
0.4284 −0.536
0.4303 −0.549
0.4320 −0.555
0.4336 −0.561
0.4353 −0.565
0.4370 −0.573
0.4403 −0.591
0.4423 −0.609
0.4461 −0.611
0.4493 −0.608
0.4508 −0.617
0.4526 −0.604
0.4563 −0.598
0.4594 −0.601
0.4612 −0.594
0.4633 −0.606
0.4651 −0.604
0.4671 −0.591
0.4692 −0.583
0.4713 −0.576
0.4730 −0.583

2442220 +
0.5047 +0.001
0.5066 +0.004
0.5073 −0.009
0.5090 −0.061
0.5096 −0.064
0.5114 −0.082
0.5120 −0.085
0.5140 −0.103
0.5149 −0.144
0.5170 −0.168
0.5177 −0.186
0.5194 −0.195
0.5204 −0.208
0.5222 −0.259
0.5229 −0.268
0.5250 −0.292
0.5260 −0.327
0.5289 −0.362
0.5312 −0.392
0.5330 −0.414
0.5337 −0.425

2442224 +
0.4878 −0.060
0.4906 −0.115
0.4934 −0.167
0.4958 −0.217
0.4994 −0.257
0.5013 −0.308
0.5031 −0.312
0.5050 −0.318
0.5069 −0.331
0.5105 −0.347
0.5124 −0.354
0.5142 −0.355
0.5161 −0.355
0.5198 −0.382
0.5217 −0.389
0.5272 −0.431
0.5291 −0.447
0.5309 −0.471
0.5364 −0.514
0.5383 −0.543
0.5420 −0.577
0.5458 −0.613
0.5475 −0.604
0.5494 −0.613

2442236 +
0.3864 +0.035
0.3883 −0.007
0.3901 −0.029
0.3922 −0.080
0.3943 −0.097
0.3961 −0.113
0.3978 −0.145
0.4019 −0.221
0.4037 −0.274
0.4054 −0.304
0.4073 −0.338
0.4092 −0.410
0.4112 −0.430
0.4153 −0.515
0.4173 −0.537
0.4199 −0.573
0.4219 −0.599
0.4252 −0.659
0.4271 −0.670
0.4296 −0.692
0.4315 −0.730
0.4337 −0.744
0.4359 −0.761
0.4409 −0.809
0.4432 −0.814
0.4455 −0.823
0.4582 −0.788
0.4601 −0.787
0.4622 −0.786

0.4645 −0.771
0.4666 −0.753
0.4687 −0.753

2442237 +
0.5091 +0.081
0.5101 +0.077
0.5124 +0.070
0.5134 +0.065
0.5156 +0.043
0.5177 +0.018
0.5197 −0.009
0.5217 −0.047
0.5242 −0.088
0.5264 −0.108
0.5286 −0.157
0.5306 −0.189
0.5326 −0.218
0.5346 −0.260
0.5365 −0.312
0.5386 −0.349

2442244 +
0.3424 −0.637
0.3433 −0.645
0.3443 −0.646
0.3460 −0.673
0.3470 −0.691
0.3479 −0.702
0.3498 −0.714
0.3507 −0.723
0.3516 −0.730
0.3535 −0.745
0.3544 −0.755
0.3554 −0.765
0.3571 −0.777
0.3581 −0.784
0.3590 −0.787
0.3609 −0.781
0.3618 −0.781
0.3627 −0.782
0.3646 −0.787
0.3655 −0.793
0.3665 −0.789
0.3683 −0.791
0.3693 −0.789
0.3701 −0.788
0.3720 −0.795
0.3729 −0.796
0.3738 −0.797
0.3757 −0.780
0.3766 −0.773
0.3776 −0.767
0.3794 −0.759
0.3804 −0.745
0.3813 −0.739
0.3831 −0.726
0.3840 −0.726
0.3849 −0.717
0.3868 −0.701
0.3877 −0.703
0.3887 −0.700

2442245 +
0.4422 +0.006
0.4441 −0.037
0.4525 −0.201
0.4540 −0.235
0.4596 −0.334
0.4610 −0.384
0.4625 −0.401
0.4640 −0.430
0.4655 −0.480

2442257 +
0.3472 −0.060
0.3498 −0.083
0.3507 −0.083
0.3525 −0.110
0.3533 −0.126
0.3553 −0.164
0.3561 −0.188
0.3579 −0.209
0.3589 −0.224
0.3608 −0.281
0.3616 −0.284
0.3651 −0.368
0.3660 −0.385
0.3685 −0.414
0.3693 −0.437
0.3912 −0.543
0.3931 −0.545
0.3964 −0.567
0.3998 −0.581
0.4019 −0.591
0.4039 −0.595
0.4061 −0.601
0.4081 −0.590
0.4100 −0.594
0.4121 −0.597
0.4165 −0.585
0.4185 −0.593
0.4206 −0.593
0.4225 −0.588
0.4247 −0.592
0.4267 −0.584
0.4288 −0.584
0.4308 −0.592
0.4326 −0.586
0.4343 −0.582
0.4363 −0.567
0.4382 −0.565
0.4399 −0.564

2442258 +
0.4755 +0.053
0.4776 +0.034
0.4795 +0.018
0.4813 −0.023
0.4831 −0.051
0.4850 −0.066
0.4884 −0.107
0.4974 −0.285
0.4989 −0.334

0.5011 −0.363
0.5035 −0.426
0.5061 −0.451
0.5138 −0.475
0.5155 −0.484
0.5277 −0.526
0.5312 −0.538
0.5332 −0.522

2442261 +
0.3308 −0.220
0.3329 −0.227
0.3371 −0.311
0.3392 −0.337
0.3412 −0.363
0.3455 −0.433
0.3481 −0.446

2442262 +
0.4512 +0.033
0.4531 +0.040
0.4550 +0.010
0.4569 −0.008
0.4587 −0.025
0.4606 −0.044
0.4625 −0.097
0.4646 −0.124
0.4664 −0.148
0.4705 −0.237
0.4725 −0.278
0.4745 −0.302
0.4766 −0.335
0.4785 −0.363
0.4806 −0.393

2442265 +
0.3296 −0.397
0.3311 −0.422
0.3331 −0.429
0.3352 −0.433
0.3371 −0.450
0.3389 −0.460
0.3408 −0.489
0.3429 −0.501
0.3451 −0.529
0.3469 −0.544
0.3490 −0.555
0.3510 −0.570
0.3532 −0.599
0.3578 −0.650
0.3613 −0.663
0.3637 −0.677
0.3655 −0.677
0.3677 −0.673
0.3702 −0.671
0.3720 −0.675
0.3742 −0.681
0.3762 −0.670
0.3786 −0.663
0.3805 −0.655
0.3828 −0.647
0.3849 −0.643

0.3873 −0.640
0.3896 −0.635
0.3920 −0.627
0.3940 −0.625

2442266 +
0.4137 +0.106
0.4156 +0.100
0.4176 +0.088
0.4196 +0.080
0.4213 +0.061
0.4232 +0.060
0.4254 +0.054
0.4275 +0.042
0.4295 +0.005
0.4314 −0.012
0.4334 −0.026
0.4354 −0.054
0.4364 −0.073
0.4384 −0.131
0.4394 −0.166
0.4416 −0.192
0.4427 −0.211
0.4448 −0.224
0.4457 −0.253
0.4479 −0.290
0.4490 −0.301
0.4509 −0.326
0.4520 −0.353
0.4540 −0.382
0.4550 −0.388
0.4571 −0.398
0.4582 −0.402
0.4602 −0.411
0.4613 −0.411
0.4638 −0.415
0.4649 −0.406
0.4673 −0.428
0.4684 −0.436
0.4704 −0.456
0.4716 −0.473
0.4737 −0.495
0.4749 −0.506
0.4771 −0.508
0.4783 −0.540
0.4802 −0.556
0.4814 −0.562
0.4834 −0.579
0.4846 −0.603
0.4876 −0.630
0.4888 −0.650
0.4909 −0.665
0.4921 −0.677
0.4941 −0.675
0.4952 −0.675
0.4975 −0.682
0.4987 −0.694
0.5010 −0.689
0.5023 −0.706
0.5048 −0.700
0.5061 −0.704
0.5081 −0.705

0.5092 −0.703
0.5124 −0.699
0.5135 −0.700
0.5159 −0.699
0.5170 −0.688
0.5194 −0.682
0.5206 −0.682
0.5225 −0.669
0.5237 −0.666
0.5258 −0.647
0.5268 −0.648

2442274 +
0.3671 +0.014
0.3687 −0.010
0.3705 −0.029
0.3722 −0.055
0.3740 −0.115
0.3757 −0.148
0.3775 −0.181
0.3794 −0.228
0.3812 −0.251
0.3831 −0.285
0.3848 −0.310
0.3865 −0.354
0.3882 −0.389
0.3901 −0.403
0.3917 −0.428
0.4005 −0.543
0.4020 −0.568
0.4035 −0.584
0.4052 −0.617
0.4067 −0.633
0.4083 −0.641
0.4097 −0.666
0.4128 −0.720
0.4146 −0.731
0.4164 −0.743
0.4180 −0.758
0.4201 −0.761
0.4217 −0.770
0.4233 −0.776
0.4253 −0.788
0.4287 −0.796
0.4306 −0.808
0.4326 −0.806
0.4344 −0.803
0.4363 −0.791
0.4381 −0.785
0.4398 −0.779
0.4414 −0.766
0.4431 −0.762
0.4451 −0.751
0.4486 −0.730
0.4507 −0.725

2442275 +
0.4836 +0.081
0.4853 +0.081
0.4870 +0.090
0.4886 +0.086
0.4903 +0.073

Table 3.

0.4919 +0.042
0.4929 +0.032
0.4957 +0.014
0.4972 +0.004
0.4990 −0.007
0.5008 −0.046
0.5023 −0.065
0.5040 −0.086
0.5057 −0.115
0.5074 −0.148
0.5092 −0.177
0.5103 −0.194
0.5127 −0.240
0.5143 −0.261
0.5160 −0.290
0.5174 −0.326
0.5191 −0.333
0.5210 −0.386
0.5227 −0.406
0.5258 −0.459
0.5274 −0.493
0.5289 −0.508
0.5304 −0.523
0.5321 −0.543
0.5338 −0.562
0.5355 −0.584
0.5369 −0.622
0.5387 −0.647
0.5401 −0.656
0.5416 −0.667
0.5434 −0.698
0.5455 −0.707
0.5473 −0.724
0.5487 −0.739
0.5501 −0.765
0.5515 −0.776
0.5529 −0.781
0.5545 −0.793
0.5561 −0.797
0.5578 −0.802
0.5590 −0.800
0.5606 −0.809
0.5621 −0.799
0.5635 −0.804
0.5651 −0.797
0.5663 −0.792
0.5679 −0.794
0.5694 −0.795
0.5709 −0.790
0.5739 −0.780

2442278 +
0.3205 +0.064
0.3223 +0.042
0.3233 +0.042
0.3249 +0.013
0.3269 +0.006
0.3285 −0.004
0.3316 −0.062
0.3333 −0.083
0.3350 −0.109
0.3371 −0.148
0.3386 −0.177
0.3403 −0.185
0.3423 −0.243
0.3441 −0.262
0.3457 −0.286
0.3475 −0.309
0.3491 −0.348
0.3509 −0.378
0.3539 −0.443
0.3561 −0.475
0.3579 −0.519
0.3595 −0.542
0.3613 −0.578
0.3630 −0.590
0.3650 −0.632
0.3667 −0.651
0.3686 −0.676
0.3707 −0.696
0.3726 −0.718
0.3745 −0.728
0.3767 −0.756
0.3788 −0.759
0.3807 −0.782
0.3829 −0.784
0.3849 −0.811
0.3867 −0.816
0.3887 −0.810
0.3907 −0.819
0.3930 −0.807
0.3946 −0.816
0.3967 −0.807
0.3998 −0.800
0.4020 −0.773
0.4038 −0.768
0.4059 −0.742
0.4079 −0.740

2442291 +
0.3432 +0.082
0.3460 +0.061
0.3467 +0.056
0.3490 +0.026
0.3515 −0.013
0.3522 −0.021
0.3543 −0.071
0.3550 −0.062
0.3571 −0.113
0.3578 −0.128
0.3598 −0.147
0.3605 −0.159
0.3626 −0.206
0.3643 −0.260
0.3664 −0.296
0.3682 −0.330
0.3689 −0.345
0.3713 −0.382
0.3720 −0.409
0.3740 −0.477
0.3750 −0.496
0.3775 −0.530
0.3782 −0.538
0.3803 −0.563
0.3813 −0.569
0.3835 −0.582
0.3845 −0.592
0.3865 −0.608
0.3876 −0.619
0.3900 −0.630
0.3910 −0.631
0.3935 −0.653
0.3946 −0.648
0.3970 −0.668
0.3980 −0.669
0.4004 −0.681
0.4015 −0.673
0.4032 −0.674
0.4053 −0.685
0.4071 −0.685
0.4098 −0.674
0.4112 −0.675
0.4133 −0.677
0.4143 −0.682
0.4164 −0.682
0.4184 −0.665
0.4206 −0.653
0.4226 −0.650
0.4251 −0.641

2442299 +
0.3061 −0.217
0.3070 −0.226
0.3109 −0.292
0.3139 −0.342
0.3150 −0.358
0.3160 −0.370
0.3188 −0.410
0.3199 −0.420
0.3211 −0.440
0.3240 −0.457
0.3255 −0.462
0.3278 −0.487
0.3285 −0.491
0.3303 −0.492
0.3320 −0.503
0.3326 −0.502
0.3335 −0.498
0.3351 −0.507
0.3361 −0.501
0.3370 −0.513
0.3388 −0.509
0.3394 −0.514
0.3401 −0.518
0.3419 −0.505
0.3426 −0.508
0.3433 −0.512
0.3450 −0.519
0.3457 −0.510
0.3468 −0.509
0.3483 −0.509
0.3498 −0.525
0.3516 −0.535
0.3523 −0.540
0.3530 −0.536
0.3551 −0.554
0.3558 −0.551
0.3565 −0.554
0.3584 −0.558
0.3592 −0.562
0.3602 −0.566
0.3620 −0.568
0.3630 −0.571
0.3648 −0.572
0.3657 −0.576
0.3667 −0.570
0.3683 −0.571
0.3692 −0.577
0.3702 −0.574
0.3724 −0.588
0.3738 −0.593
0.3757 −0.588
0.3766 −0.579
0.3775 −0.580
0.3797 −0.579
0.3807 −0.575
0.3815 −0.562
0.3834 −0.559
0.3842 −0.554
0.3851 −0.558
0.3870 −0.553
0.3879 −0.539
0.3889 −0.543

2442300 +
0.4250 +0.009
0.4281 −0.016
0.4313 −0.047
0.4340 −0.066
0.4352 −0.093
0.4371 −0.138
0.4390 −0.165
0.4409 −0.208
0.4431 −0.256
0.4452 −0.286
0.4470 −0.325
0.4491 −0.334
0.4510 −0.351
0.4530 −0.378
0.4550 −0.418
0.4570 −0.427
0.4591 −0.432
0.4612 −0.443
0.4631 −0.456
0.4690 −0.473
0.4712 −0.485
0.4733 −0.483
0.4753 −0.499
0.4772 −0.517
0.4807 −0.520
0.4838 −0.530

2442304 +
0.3887 +0.082
0.3904 +0.091
0.3922 +0.082
0.3939 +0.057
0.3957 +0.040
0.3984 +0.027
0.4012 +0.012
0.4029 −0.027
0.4042 −0.028
0.4059 −0.054
0.4082 −0.077
0.4109 −0.112
0.4116 −0.141
0.4133 −0.163
0.4140 −0.185
0.4161 −0.235
0.4168 −0.242
0.4189 −0.269
0.4196 −0.280
0.4216 −0.305
0.4223 −0.319
0.4244 −0.340
0.4251 −0.348
0.4272 −0.379
0.4279 −0.377
0.4300 −0.389
0.4307 −0.389
0.4328 −0.400
0.4345 −0.403
0.4366 −0.404
0.4383 −0.416
0.4401 −0.421
0.4422 −0.421
0.4443 −0.443
0.4466 −0.461
0.4487 −0.468
0.4508 −0.491
0.4526 −0.504
0.4547 −0.526
0.4568 −0.551
0.4585 −0.566
0.4605 −0.588
0.4623 −0.596
0.4644 −0.601
0.4665 −0.612
0.4682 −0.626
0.4703 −0.640
0.4723 −0.647
0.4741 −0.646
0.4762 −0.653
0.4783 −0.660
0.4821 −0.669
0.4838 −0.671
0.4859 −0.671
0.4876 −0.663
0.4894 −0.657
0.4915 −0.656
0.4932 −0.649

2442307 +
0.2863 −0.518
0.2870 −0.521
0.2888 −0.535
0.2896 −0.542
0.2916 −0.561
0.2923 −0.571
0.2940 −0.585

0.2947 −0.592
0.2967 −0.624
0.2974 −0.628
0.2996 −0.644
0.3002 −0.648
0.3023 −0.660
0.3030 −0.667
0.3048 −0.681
0.3055 −0.685
0.3076 −0.681
0.3083 −0.682
0.3100 −0.695
0.3106 −0.694
0.3125 −0.698
0.3131 −0.700
0.3162 −0.703
0.3170 −0.709
0.3180 −0.704
0.3187 −0.705
0.3204 −0.701
0.3215 −0.696
0.3235 −0.695
0.3270 −0.692
0.3298 −0.690
0.3316 −0.690
0.3333 −0.683
0.3350 −0.678
0.3368 −0.670

2442308 +
0.3690 +0.082
0.3710 +0.074
0.3728 +0.042
0.3749 +0.020
0.3773 +0.000
0.3815 −0.045
0.3835 −0.076
0.3856 −0.124
0.3876 −0.168
0.3897 −0.228
0.3919 −0.260
0.3940 −0.280
0.3988 −0.360
0.4006 −0.379

2442329 +
0.3230 +0.033
0.3254 +0.018
0.3275 +0.001
0.3296 −0.030
0.3317 −0.052
0.3337 −0.062
0.3365 −0.127
0.3390 −0.173
0.3411 −0.228
0.3435 −0.284
0.3459 −0.316
0.3483 −0.386
0.3504 −0.417
0.3529 −0.470
0.3553 −0.511
0.3578 −0.540

0.3598 −0.580
0.3626 −0.606
0.3647 −0.631
0.3668 −0.641
0.3692 −0.668
0.3712 −0.687
0.3737 −0.689
0.3758 −0.695
0.3779 −0.707
0.3800 −0.718
0.3821 −0.710
0.3841 −0.714
0.3865 −0.724
0.3886 −0.709
0.3911 −0.713
0.3932 −0.707
0.3953 −0.713
0.3969 −0.710
0.3994 −0.688
0.4022 −0.686
0.4043 −0.658
0.4064 −0.650

2442350 +
0.3050 +0.098
0.3057 +0.099
0.3082 +0.097
0.3093 +0.091
0.3121 +0.079
0.3131 +0.072
0.3170 +0.018
0.3180 +0.009
0.3205 −0.012
0.3214 −0.030
0.3242 −0.059
0.3252 −0.061
0.3284 −0.106
0.3294 −0.137
0.3329 −0.185
0.3340 −0.207
0.3383 −0.297
0.3411 −0.345
0.3422 −0.347
0.3447 −0.394
0.3459 −0.405
0.3579 −0.500
0.3605 −0.535
0.3631 −0.573
0.3670 −0.600
0.3699 −0.652
0.3731 −0.669
0.3803 −0.701
0.3836 −0.730
0.3867 −0.737
0.3904 −0.745
0.3942 −0.739
0.3977 −0.731
0.4015 −0.723

2442363 +
0.3357 +0.077
0.3368 +0.070

0.3392 +0.041
0.3403 +0.019
0.3427 +0.001
0.3441 −0.012
0.3465 −0.047
0.3479 −0.061
0.3503 −0.091
0.3531 −0.126
0.3559 −0.199
0.3701 −0.509

2442367 +
0.3392 −0.600
0.3411 −0.608
0.3452 −0.643
0.3474 −0.665
0.3495 −0.679
0.3518 −0.699

2442379 +
0.2083 +0.062
0.2139 +0.020
0.2167 −0.020
0.2195 −0.082
0.2215 −0.129
0.2236 −0.152
0.2288 −0.238
0.2313 −0.273
0.2336 −0.324
0.2364 −0.354
0.2389 −0.378
0.2417 −0.407
0.2451 −0.427

2442396 +
0.2185 +0.111
0.2199 +0.101
0.2240 +0.085
0.2254 +0.074
0.2296 +0.052
0.2310 +0.036
0.2351 −0.016
0.2365 −0.030
0.2407 −0.101
0.2421 −0.108
0.2456 −0.188
0.2470 −0.219
0.2504 −0.258
0.2511 −0.275
0.2553 −0.370
0.2567 −0.388
0.2608 −0.481
0.2622 −0.508
0.2657 −0.546
0.2671 −0.552
0.2699 −0.582
0.2713 −0.603
0.2796 −0.697
0.2838 −0.713
0.2852 −0.723

2442404 +
0.1885 −0.544
0.1892 −0.566
0.1924 −0.613
0.1945 −0.617
0.1954 −0.637
0.1981 −0.667
0.2005 −0.681
0.2027 −0.696
0.2049 −0.705
0.2075 −0.715
0.2118 −0.711
0.2143 −0.713
0.2166 −0.719
0.2189 −0.720
0.2237 −0.705
0.2287 −0.699
0.2311 −0.694
0.2336 −0.679
0.2383 −0.685
0.2409 −0.674
0.2432 −0.667
0.2456 −0.658
0.2485 −0.621

2442504 +
0.5040 −0.186
0.5048 −0.215
0.5069 −0.255
0.5077 −0.262
0.5098 −0.316
0.5106 −0.330
0.5123 −0.355
0.5131 −0.364
0.5153 −0.393
0.5159 −0.401
0.5181 −0.416
0.5189 −0.419
0.5216 −0.462
0.5233 −0.482
0.5242 −0.481
0.5262 −0.490
0.5270 −0.503
0.5288 −0.518
0.5296 −0.530
0.5313 −0.564
0.5325 −0.571
0.5343 −0.578
0.5354 −0.581
0.5381 −0.610
0.5399 −0.634
0.5409 −0.640
0.5429 −0.654
0.5439 −0.656
0.5457 −0.661
0.5467 −0.671
0.5487 −0.690
0.5514 −0.699
0.5524 −0.704
0.5543 −0.699
0.5552 −0.704
0.5571 −0.719
0.5582 −0.719

0.5623 −0.721
0.5640 −0.717
0.5660 −0.715
0.5681 −0.720
0.5700 −0.703
0.5720 −0.709
0.5760 −0.695
0.5777 −0.696
0.5785 −0.691
0.5805 −0.690

2442530 +
0.5239 +0.118
0.5252 +0.104
0.5279 +0.098
0.5293 +0.108
0.5317 +0.098
0.5330 +0.097
0.5357 +0.089
0.5370 +0.089
0.5403 +0.078
0.5416 +0.087
0.5439 +0.082
0.5451 +0.070
0.5478 +0.061
0.5492 +0.062
0.5518 +0.053
0.5533 +0.020
0.5561 +0.000
0.5575 −0.014
0.5612 −0.075
0.5637 −0.105
0.5649 −0.138
0.5671 −0.160
0.5684 −0.203
0.5710 −0.229
0.5721 −0.250
0.5746 −0.291
0.5758 −0.319
0.5778 −0.345
0.5791 −0.374
0.5815 −0.400
0.5830 −0.419
0.5853 −0.460
0.5868 −0.479
0.5897 −0.497
0.5909 −0.517
0.5935 −0.537
0.5945 −0.539

2442533 +
0.3801 +0.101
0.3810 +0.100
0.3828 +0.088
0.3837 +0.087
0.3856 +0.071
0.3884 +0.052
0.3893 +0.036
0.3912 +0.000
0.3921 +0.000
0.3940 −0.029
0.3949 −0.042

0.3967 −0.058
0.3975 −0.071
0.3995 −0.121
0.4004 −0.145
0.4023 −0.169
0.4032 −0.194
0.4051 −0.226
0.4060 −0.266
0.4078 −0.310
0.4087 −0.310
0.4106 −0.337
0.4115 −0.361
0.4134 −0.397
0.4143 −0.404
0.4162 −0.427
0.4171 −0.445
0.4190 −0.475
0.4199 −0.477
0.4217 −0.472
0.4226 −0.482
0.4245 −0.484
0.4254 −0.488
0.4273 −0.499
0.4282 −0.515
0.4301 −0.517
0.4310 −0.517
0.4328 −0.532
0.4337 −0.533
0.4356 −0.556
0.4365 −0.559
0.4384 −0.558
0.4393 −0.568
0.4412 −0.562
0.4440 −0.594
0.4449 −0.599
0.4495 −0.631
0.4504 −0.638
0.4523 −0.648
0.4532 −0.661
0.4560 −0.650
0.4578 −0.665
0.4587 −0.664
0.4606 −0.678
0.4615 −0.670
0.4634 −0.673
0.4643 −0.681
0.4662 −0.673
0.4671 −0.675
0.4690 −0.668
0.4699 −0.662
0.4745 −0.640
0.4754 −0.647
0.4773 −0.621
0.4782 −0.620
0.4801 −0.609
0.4810 −0.603

2442546 +
0.4030 +0.107
0.4039 +0.113
0.4061 +0.103
0.4081 +0.098

0.4116 +0.107
0.4141 +0.083
0.4162 +0.088
0.4183 +0.100
0.4204 +0.076
0.4229 +0.069
0.4269 +0.047
0.4304 +0.033
0.4326 +0.028
0.4342 −0.009
0.4364 −0.027
0.4373 −0.053
0.4395 −0.058
0.4403 −0.079
0.4422 −0.112
0.4432 −0.114
0.4461 −0.152
0.4484 −0.212
0.4494 −0.227
0.4516 −0.251
0.4528 −0.285
0.4547 −0.330
0.4559 −0.350
0.4584 −0.390
0.4613 −0.443
0.4626 −0.459
0.4653 −0.508
0.4722 −0.582
0.4733 −0.581
0.4754 −0.598
0.4764 −0.611
0.4785 −0.620
0.4821 −0.680
0.4842 −0.704
0.4872 −0.705
0.4928 −0.736
0.4954 −0.735
0.4975 −0.735
0.4998 −0.742
0.5022 −0.726
0.5046 −0.739
0.5067 −0.735
0.5088 −0.724
0.5128 −0.730
0.5141 −0.713
0.5158 −0.725

2442551 +
0.5067 +0.114
0.5076 +0.105
0.5094 +0.101
0.5103 +0.112
0.5122 +0.093
0.5150 +0.090
0.5159 +0.087
0.5178 +0.086
0.5187 +0.075
0.5206 +0.082
0.5215 +0.086
0.5233 +0.076
0.5242 +0.053
0.5261 +0.050

0.5270 +0.043
0.5289 +0.044
0.5298 +0.031
0.5317 +0.004
0.5326 +0.004
0.5344 −0.003
0.5353 −0.006
0.5372 −0.025
0.5381 −0.053
0.5400 −0.079
0.5409 −0.087
0.5428 −0.122
0.5437 −0.143
0.5456 −0.172
0.5465 −0.206
0.5483 −0.228
0.5492 −0.242
0.5511 −0.282
0.5520 −0.281
0.5539 −0.322
0.5548 −0.336
0.5567 −0.380
0.5576 −0.394
0.5594 −0.422
0.5603 −0.437
0.5622 −0.463
0.5631 −0.476
0.5650 −0.498
0.5659 −0.501
0.5678 −0.522
0.5687 −0.532

2442554 +
0.3628 −0.011
0.3638 −0.014
0.3660 −0.037
0.3670 −0.050
0.3690 −0.075
0.3702 −0.080
0.3724 −0.096
0.3734 −0.112
0.3757 −0.134
0.3767 −0.156
0.3793 −0.220
0.3805 −0.236
0.3826 −0.274
0.3837 −0.299
0.3860 −0.339
0.3871 −0.366
0.3898 −0.422
0.3910 −0.436
0.3932 −0.458
0.3942 −0.462
0.3968 −0.515
0.3977 −0.514
0.4000 −0.529
0.4012 −0.530
0.4034 −0.557
0.4046 −0.582
0.4068 −0.610
0.4080 −0.606
0.4101 −0.623

0.4111 −0.623
0.4135 −0.661
0.4147 −0.653
0.4170 −0.669
0.4184 −0.686
0.4206 −0.697
0.4230 −0.706
0.4250 −0.703
0.4273 −0.710
0.4299 −0.708
0.4322 −0.710
0.4344 −0.710
0.4366 −0.695
0.4391 −0.699
0.4412 −0.686
0.4438 −0.687
0.4450 −0.670
0.4486 −0.664
0.4517 −0.653
0.4545 −0.662

2442563 +
0.4156 +0.083
0.4166 +0.071
0.4185 +0.047
0.4194 +0.046
0.4211 +0.050
0.4221 +0.041
0.4239 +0.043
0.4249 +0.021
0.4267 −0.010
0.4277 −0.012
0.4295 −0.023
0.4305 −0.027
0.4322 −0.039
0.4332 −0.048
0.4359 −0.070
0.4378 −0.100
0.4388 −0.112
0.4406 −0.130
0.4416 −0.170
0.4434 −0.199
0.4444 −0.216
0.4462 −0.246
0.4472 −0.258
0.4642 −0.479
0.4652 −0.503
0.4670 −0.515
0.4680 −0.534
0.4698 −0.539
0.4708 −0.552
0.4726 −0.568
0.4736 −0.582
0.4815 −0.628
0.4825 −0.620
0.4843 −0.624
0.4853 −0.624
0.4871 −0.645
0.4881 −0.644
0.4899 −0.650
0.4909 −0.654
0.4937 −0.650

0.4955 −0.655
0.4965 −0.653
0.4983 −0.648
0.4993 −0.639
0.5011 −0.644
0.5021 −0.656
0.5038 −0.651
0.5048 −0.645
0.5065 −0.648
0.5075 −0.652
0.5093 −0.631
0.5103 −0.637
0.5121 −0.641
0.5131 −0.622
0.5149 −0.635
0.5159 −0.627
0.5176 −0.617
0.5186 −0.621
0.5205 −0.623

2442575 +
0.3944 −0.634
0.3972 −0.651
0.4000 −0.662
0.4033 −0.684
0.4065 −0.686
0.4092 −0.692
0.4119 −0.688
0.4149 −0.694
0.4176 −0.700
0.4205 −0.685
0.4232 −0.696
0.4257 −0.693
0.4284 −0.685
0.4311 −0.669
0.4343 −0.646
0.4365 −0.630
0.4385 −0.631
0.4411 −0.626

2442576 +
0.4474 +0.114
0.4483 +0.114
0.4504 +0.119
0.4526 +0.099
0.4547 +0.107
0.4568 +0.095
0.4591 +0.101
0.4614 +0.090
0.4635 +0.074
0.4658 +0.064
0.4682 +0.037
0.4706 +0.024
0.4728 −0.002
0.4756 −0.035
0.4783 −0.069
0.4806 −0.086
0.4817 −0.097
0.4841 −0.136
0.4851 −0.155
0.4876 −0.192
0.4887 −0.219

0.4909 −0.242
0.4918 −0.257
0.4949 −0.319
0.4961 −0.332
0.4986 −0.362
0.4997 −0.378
0.5023 −0.417
0.5033 −0.435
0.5058 −0.449
0.5067 −0.470
0.5091 −0.477
0.5102 −0.493
0.5126 −0.516
0.5138 −0.512
0.5163 −0.527
0.5175 −0.534
0.5210 −0.571
0.5220 −0.588
0.5243 −0.602
0.5254 −0.608

2442601 +
0.4020 +0.035
0.4044 +0.011
0.4061 +0.009
0.4083 −0.008
0.4104 −0.063
0.4126 −0.093
0.4146 −0.131
0.4168 −0.160
0.4189 −0.198
0.4213 −0.228
0.4236 −0.266
0.4261 −0.311
0.4285 −0.356
0.4318 −0.412
0.4339 −0.427
0.4362 −0.465
0.4387 −0.478
0.4416 −0.478
0.4442 −0.488
0.4472 −0.526
0.4498 −0.556
0.4523 −0.560
0.4546 −0.580
0.4574 −0.596
0.4616 −0.593
0.4640 −0.613
0.4666 −0.617
0.4690 −0.636
0.4714 −0.640
0.4734 −0.641
0.4756 −0.645
0.4781 −0.635
0.4802 −0.630
0.4821 −0.630
0.4849 −0.626
0.4867 −0.625
0.4892 −0.630
0.4912 −0.621

2442622 +
0.3903 +0.001
0.3918 −0.021
0.3934 −0.035
0.3943 −0.038
0.3964 −0.089
0.3973 −0.104
0.3995 −0.144
0.4005 −0.151
0.4026 −0.189
0.4037 −0.230
0.4061 −0.258
0.4072 −0.273
0.4093 −0.311
0.4104 −0.340
0.4130 −0.370
0.4141 −0.394
0.4167 −0.416
0.4179 −0.438
0.4204 −0.466
0.4214 −0.473
0.4238 −0.526
0.4250 −0.527
0.4275 −0.553
0.4288 −0.580
0.4310 −0.614
0.4323 −0.618
0.4351 −0.655
0.4372 −0.666
0.4389 −0.694
0.4543 −0.795
0.4568 −0.800
0.4590 −0.794
0.4615 −0.773
0.4638 −0.778
0.4662 −0.770
0.4683 −0.742
0.4702 −0.733
0.4725 −0.711

2442623 +
0.5161 +0.057
0.5168 +0.057
0.5186 +0.047
0.5195 +0.041
0.5215 +0.031
0.5222 +0.009
0.5241 −0.004
0.5251 −0.004
0.5272 −0.039
0.5303 −0.076
0.5310 −0.089
0.5331 −0.130
0.5340 −0.143
0.5360 −0.174
0.5370 −0.194
0.5387 −0.238
0.5395 −0.256
0.5412 −0.290
0.5420 −0.309
0.5440 −0.345
0.5450 −0.374
0.5472 −0.413
0.5480 −0.424

2442634 +
0.3310 −0.628
0.3318 −0.642
0.3340 −0.650
0.3346 −0.642
0.3379 −0.659
0.3398 −0.659
0.3406 −0.658
0.3424 −0.667
0.3430 −0.665
0.3446 −0.671
0.3454 −0.669
0.3479 −0.681
0.3502 −0.681
0.3518 −0.682
0.3523 −0.675
0.3543 −0.674
0.3550 −0.678
0.3570 −0.676
0.3594 −0.671
0.3600 −0.671
0.3618 −0.678
0.3623 −0.668
0.3640 −0.674
0.3645 −0.665
0.3663 −0.662
0.3671 −0.650

2442635 +
0.4205 −0.064
0.4224 −0.094
0.4243 −0.101
0.4264 −0.128
0.4272 −0.159
0.4290 −0.180
0.4297 −0.206
0.4318 −0.231
0.4324 −0.242
0.4349 −0.282
0.4357 −0.289
0.4378 −0.355
0.4398 −0.379
0.4420 −0.433
0.4443 −0.463
0.4469 −0.515
0.4697 −0.671
0.4717 −0.682
0.4734 −0.682
0.4752 −0.686
0.4771 −0.692
0.4795 −0.690
0.4834 −0.689
0.4852 −0.687
0.4872 −0.687
0.4890 −0.679
0.4912 −0.670

2442639 +
0.3766 +0.020
0.3773 +0.018
0.3793 +0.007
0.3799 +0.000
0.3816 −0.002
0.3823 −0.017
0.3842 −0.029
0.3848 −0.044
0.3879 −0.070
0.3895 −0.078
0.3901 −0.096
0.3922 −0.115
0.3928 −0.129
0.3946 −0.155
0.3971 −0.216
0.3979 −0.228
0.3999 −0.276
0.4005 −0.277
0.4026 −0.308
0.4032 −0.338
0.4050 −0.356
0.4055 −0.375
0.4083 −0.403
0.4092 −0.407
0.4110 −0.426
0.4117 −0.439
0.4137 −0.473
0.4144 −0.482
0.4163 −0.503
0.4169 −0.505
0.4187 −0.519
0.4193 −0.516
0.4211 −0.532
0.4219 −0.535
0.4238 −0.535
0.4243 −0.539
0.4261 −0.539
0.4268 −0.552
0.4285 −0.559
0.4292 −0.570
0.4309 −0.591
0.4315 −0.594
0.4334 −0.603
0.4342 −0.606
0.4361 −0.610
0.4368 −0.614
0.4386 −0.623
0.4393 −0.633
0.4410 −0.624
0.4417 −0.633
0.4434 −0.640
0.4442 −0.650
0.4460 −0.636
0.4468 −0.645
0.4485 −0.640
0.4493 −0.648
0.4502 −0.645
0.4541 −0.636
0.4549 −0.627
0.4567 −0.635
0.4575 −0.629
0.4594 −0.620
0.4602 −0.625
0.4619 −0.624
0.4625 −0.622
0.4642 −0.622
0.4651 −0.615
0.4668 −0.621
0.4676 −0.612
0.4693 −0.607
0.4699 −0.609
0.4714 −0.608
0.4720 −0.609
0.4736 −0.593
0.4743 −0.584
0.4760 −0.583
0.4767 −0.574
0.4784 −0.569
0.4793 −0.570

2442648 +
0.4492 +0.047
0.4506 +0.051
0.4534 +0.038
0.4548 +0.027
0.4618 −0.068
0.4632 −0.074
0.4660 −0.133
0.4674 −0.134
0.4702 −0.195
0.4717 −0.223
0.4745 −0.264
0.4759 −0.285
0.4787 −0.337
0.4800 −0.361
0.4827 −0.381
0.4841 −0.388
0.4869 −0.413
0.4883 −0.419
0.4910 −0.422
0.4924 −0.432
0.4980 −0.457
0.4994 −0.450
0.5022 −0.475
0.5036 −0.468
0.5064 −0.478
0.5078 −0.491
0.5105 −0.484
0.5119 −0.495

2442664 +
0.3799 −0.739
0.3807 −0.746
0.3827 −0.749
0.3835 −0.770
0.3867 −0.785
0.3896 −0.790
0.3921 −0.784
0.3930 −0.789
0.3951 −0.800
0.3962 −0.805
0.3989 −0.801
0.4001 −0.793
0.4027 −0.792
0.4038 −0.783
0.4061 −0.791

0.4072 −0.786
0.4096 −0.770
0.4107 −0.767

2442669 +
0.4148 +0.053
0.4155 +0.051
0.4176 +0.043
0.4183 +0.068
0.4202 +0.048
0.4209 +0.049
0.4236 +0.057
0.4255 +0.038
0.4264 +0.048
0.4286 +0.035
0.4292 +0.033
0.4311 +0.000
0.4317 −0.017
0.4337 −0.041
0.4345 −0.038
0.4362 −0.053
0.4368 −0.073
0.4388 −0.110
0.4417 −0.153
0.4426 −0.166
0.4446 −0.218
0.4479 −0.285
0.4487 −0.303
0.4512 −0.357
0.4523 −0.365
0.4542 −0.407
0.4552 −0.416
0.4580 −0.474
0.4591 −0.485
0.4616 −0.530
0.4625 −0.529
0.4645 −0.571
0.4653 −0.576
0.4671 −0.585
0.4680 −0.605
0.4697 −0.624
0.4706 −0.639
0.4725 −0.649
0.4734 −0.663

2442672 +
0.2715 −0.156
0.2722 −0.167
0.2741 −0.210
0.2749 −0.216
0.2769 −0.262
0.2776 −0.271
0.2798 −0.294
0.2805 −0.310
0.2827 −0.339
0.2835 −0.374
0.2861 −0.405
0.2871 −0.428
0.2892 −0.470
0.2901 −0.472
0.2922 −0.494
0.2930 −0.513
0.2954 −0.548
0.2965 −0.567
0.2990 −0.576
0.3000 −0.581
0.3023 −0.598
0.3035 −0.617
0.3059 −0.635
0.3068 −0.657
0.3126 −0.691
0.3150 −0.693
0.3159 −0.709
0.3181 −0.710
0.3191 −0.705
0.3214 −0.710
0.3222 −0.708
0.3243 −0.713
0.3254 −0.712
0.3277 −0.703
0.3286 −0.709
0.3366 −0.691
0.3377 −0.692
0.3407 −0.684
0.3420 −0.663
0.3455 −0.653
0.3527 −0.605
0.3537 −0.610

2442673 +
0.4012 −0.090
0.4026 −0.104
0.4061 −0.179
0.4075 −0.203
0.4102 −0.261
0.4116 −0.283
0.4144 −0.366
0.4158 −0.385
0.4186 −0.424
0.4200 −0.444
0.4227 −0.457
0.4241 −0.472
0.4269 −0.514
0.4283 −0.533
0.4311 −0.548
0.4325 −0.542
0.4352 −0.576
0.4366 −0.601
0.4394 −0.618
0.4408 −0.636
0.4436 −0.646
0.4450 −0.659
0.4477 −0.669
0.4491 −0.680
0.4519 −0.701
0.4533 −0.709
0.4561 −0.703
0.4574 −0.708
0.4602 −0.711
0.4616 −0.712
0.4658 −0.696
0.4686 −0.676
0.4700 −0.676
0.4727 −0.654
0.4741 −0.648
0.4769 −0.646
0.4783 −0.641
0.4811 −0.633
0.4825 −0.607

2442676 +
0.2602 −0.507
0.2607 −0.524
0.2631 −0.540
0.2640 −0.564
0.2659 −0.585
0.2665 −0.585
0.2688 −0.599
0.2697 −0.612
0.2717 −0.612
0.2725 −0.629
0.2747 −0.638
0.2776 −0.652
0.2786 −0.652
0.2807 −0.669
0.2816 −0.664
0.2838 −0.677
0.2848 −0.678
0.2872 −0.674
0.2880 −0.677
0.2904 −0.675
0.2913 −0.659
0.2932 −0.654
0.2941 −0.652
0.2963 −0.650
0.2972 −0.650
0.2995 −0.645
0.3006 −0.648
0.3026 −0.638
0.3035 −0.635
0.3057 −0.640
0.3067 −0.637
0.3089 −0.622
0.3098 −0.614
0.3120 −0.617
0.3130 −0.617

2442677 +
0.3551 +0.022
0.3562 +0.024
0.3593 −0.036
0.3603 −0.025
0.3630 −0.088
0.3643 −0.092
0.3667 −0.121
0.3681 −0.149
0.3712 −0.197
0.3738 −0.227
0.3769 −0.292
0.3834 −0.389
0.3860 −0.430
0.3890 −0.469
0.3918 −0.492
0.4032 −0.595
0.4060 −0.612
0.4091 −0.637
0.4117 −0.649
0.4147 −0.661
0.4175 −0.659
0.4237 −0.662
0.4267 −0.656
0.4297 −0.649
0.4328 −0.636
0.4358 −0.633
0.4386 −0.631
0.4419 −0.630
0.4473 −0.622
0.4567 −0.560
0.4593 −0.529

2442681 +
0.3191 +0.031
0.3202 +0.026
0.3243 +0.007
0.3268 −0.027
0.3278 −0.030
0.3304 −0.040
0.3343 −0.107
0.3356 −0.132
0.3382 −0.163
0.3391 −0.187
0.3419 −0.225
0.3429 −0.236
0.3460 −0.280
0.3474 −0.295
0.3513 −0.362
0.3536 −0.431
0.3548 −0.431

2442685 +
0.2994 −0.041
0.3000 −0.056
0.3022 −0.057
0.3029 −0.093
0.3050 −0.105
0.3058 −0.133
0.3076 −0.157
0.3093 −0.178
0.3111 −0.220
0.3130 −0.263
0.3150 −0.283
0.3167 −0.309
0.3190 −0.347
0.3209 −0.364
0.3228 −0.403
0.3248 −0.409
0.3268 −0.416
0.3287 −0.437
0.3308 −0.452
0.3327 −0.448
0.3344 −0.450
0.3364 −0.465
0.3383 −0.473
0.3404 −0.465
0.3431 −0.481
0.3450 −0.483
0.3472 −0.493
0.3495 −0.514
0.3519 −0.524
0.3540 −0.532
0.3561 −0.534
0.3583 −0.536
0.3602 −0.550
0.3625 −0.555
0.3647 −0.570
0.3668 −0.580
0.3688 −0.572
0.3709 −0.574
0.3733 −0.586
0.3754 −0.590

2442689 +
0.2633 +0.055
0.2643 +0.045
0.2679 −0.013
0.2689 −0.010
0.2713 −0.041
0.2727 −0.061
0.2755 −0.084
0.2765 −0.093
0.2792 −0.147
0.2806 −0.175
0.2831 −0.195
0.2842 −0.221
0.2866 −0.253
0.2880 −0.254
0.2901 −0.299
0.2912 −0.290
0.2936 −0.328
0.2950 −0.335
0.2974 −0.355
0.2984 −0.347
0.3023 −0.374
0.3047 −0.395
0.3061 −0.406
0.3088 −0.400
0.3098 −0.409
0.3123 −0.424
0.3137 −0.433
0.3165 −0.447
0.3171 −0.443
0.3203 −0.462
0.3214 −0.472
0.3237 −0.484
0.3290 −0.507
0.3314 −0.524
0.3324 −0.525
0.3338 −0.543
0.3404 −0.582
0.3418 −0.586
0.3436 −0.594
0.3450 −0.596
0.3516 −0.617
0.3526 −0.626
0.3554 −0.626
0.3564 −0.622
0.3588 −0.627
0.3630 −0.597
0.3637 −0.604
0.3665 −0.594

0.3675 −0.600

2442710 +
0.2915 −0.705
0.2929 −0.723
0.2960 −0.735
0.2970 −0.749
0.3062 −0.746
0.3076 −0.750
0.3102 −0.747
0.3113 −0.734
0.3139 −0.728
0.3149 −0.722
0.3178 −0.704
0.3217 −0.683

2442714 +
0.2155 −0.180
0.2165 −0.201
0.2190 −0.245
0.2199 −0.283
0.2221 −0.301
0.2229 −0.320
0.2251 −0.364
0.2260 −0.386
0.2292 −0.437
0.2315 −0.457
0.2325 −0.469
0.2377 −0.554
0.2386 −0.571
0.2413 −0.593
0.2423 −0.590
0.2447 −0.615
0.2456 −0.622
0.2479 −0.640
0.2489 −0.651
0.2511 −0.660
0.2525 −0.662
0.2554 −0.661
0.2564 −0.667
0.2588 −0.674
0.2597 −0.674
0.2620 −0.686
0.2631 −0.672
0.2650 −0.684
0.2660 −0.676
0.2681 −0.677
0.2690 −0.679
0.2714 −0.678
0.2723 −0.674
0.2746 −0.672
0.2755 −0.666
0.2781 −0.660
0.2794 −0.650
0.2818 −0.648
0.2827 −0.658
0.2845 −0.644
0.2856 −0.640
0.2879 −0.640
0.2888 −0.634

2442840 +
0.6139 −0.191
0.6150 −0.216
0.6177 −0.250
0.6209 −0.308
0.6220 −0.327
0.6239 −0.364
0.6248 −0.377
0.6270 −0.405
0.6279 −0.433
0.6299 −0.473
0.6309 −0.485
0.6336 −0.511
0.6346 −0.523

2442873 +
0.5188 −0.641
0.5202 −0.660
0.5235 −0.692
0.5249 −0.692
0.5281 −0.711
0.5295 −0.713
0.5329 −0.725
0.5343 −0.735
0.5378 −0.732
0.5392 −0.724
0.5429 −0.730
0.5443 −0.729
0.5475 −0.706
0.5489 −0.708
0.5531 −0.695
0.5545 −0.682
0.5575 −0.668
0.5589 −0.662
0.5621 −0.637
0.5631 −0.624
0.5663 −0.616
0.5677 −0.606

2442890 +
0.4991 +0.024
0.5007 +0.015
0.9031 −0.040
0.5041 −0.036
0.5078 −0.114
0.5090 −0.139
0.5119 −0.197
0.5133 −0.196
0.5161 −0.246
0.5178 −0.268
0.5205 −0.270
0.5219 −0.295
0.5247 −0.301
0.5261 −0.295
0.5288 −0.307
0.5302 −0.307
0.5337 −0.322
0.5393 −0.346
0.5424 −0.358
0.5436 −0.366
0.5480 −0.377
0.5510 −0.415
0.5522 −0.420
0.5550 −0.435
0.5562 −0.452
0.5590 −0.472
0.5604 −0.480
0.5633 −0.501
0.5645 −0.522
0.5675 −0.541
0.5686 −0.548
0.5714 −0.565
0.5725 −0.569
0.5760 −0.588
0.5773 −0.598
0.5802 −0.595
0.5816 −0.598
0.5858 −0.611
0.5885 −0.615

2442907 +
0.4788 +0.052
0.4802 +0.045
0.4833 +0.049
0.4847 +0.052
0.4882 +0.042
0.4896 +0.048
0.4924 +0.034
0.4982 +0.000
0.4996 −0.008
0.5024 −0.063
0.5038 −0.077
0.5073 −0.106
0.5090 −0.146
0.5121 −0.218
0.5135 −0.230
0.5170 −0.302
0.5184 −0.354
0.5212 −0.405
0.5253 −0.487
0.5267 −0.495
0.5298 −0.547
0.5312 −0.582
0.5344 −0.647
0.5361 −0.673
0.5396 −0.735
0.5410 −0.752
0.5448 −0.811
0.5462 −0.826
0.5493 −0.833
0.5507 −0.831
0.5541 −0.847
0.5555 −0.844
0.5587 −0.827
0.5598 −0.818
0.5628 −0.817
0.5642 −0.810
0.5673 −0.791
0.5687 −0.789
0.5718 −0.773
0.5732 −0.758

2442915 +
0.4080 +0.055
0.4089 +0.056
0.4121 +0.037
0.4132 +0.043
0.4164 +0.042
0.4175 +0.012
0.4212 +0.004
0.4260 −0.029
0.4273 −0.043
0.4304 −0.089
0.4314 −0.100
0.4345 −0.180
0.4354 −0.197
0.4394 −0.252
0.4404 −0.271
0.4436 −0.340
0.4446 −0.358
0.4480 −0.433
0.4493 −0.461
0.4519 −0.512
0.4529 −0.513
0.4560 −0.565
0.4605 −0.631
0.4616 −0.644
0.4645 −0.670
0.4656 −0.684
0.4686 −0.701
0.4699 −0.712
0.4729 −0.722
0.4741 −0.719
0.4772 −0.727
0.4786 −0.721
0.4823 −0.721
0.4834 −0.720
0.4866 −0.718
0.4877 −0.713
0.4902 −0.699
0.4913 −0.691

2442936 +
0.3868 +0.142
0.3882 +0.150
0.3910 +0.151
0.3921 +0.131
0.3950 +0.144
0.3964 +0.136
0.3993 +0.123
0.4009 +0.131
0.4039 +0.104
0.4051 +0.103
0.4092 +0.101
0.4106 +0.103
0.4134 +0.082
0.4150 +0.069
0.4188 +0.062
0.4203 +0.044
0.4234 +0.020
0.4246 +0.004
0.4272 −0.019
0.4286 −0.060
0.4318 −0.080
0.4332 −0.113
0.4502 −0.339
0.4515 −0.367
0.4542 −0.392
0.4556 −0.409
0.4585 −0.432
0.4599 −0.472
0.4627 −0.493
0.4640 −0.515
0.4668 −0.571
0.4682 −0.605
0.4706 −0.637
0.4720 −0.651
0.4762 −0.705
0.4793 −0.711
0.4806 −0.727
0.4835 −0.739
0.4880 −0.770
0.4894 −0.770
0.4922 −0.777
0.4934 −0.781
0.4958 −0.773
0.4973 −0.763
0.5021 −0.760
0.5051 −0.762
0.5065 −0.761
0.5102 −0.734
0.5119 −0.730

2442940 +
0.3835 +0.047
0.3839 +0.058
0.3877 +0.014
0.3892 −0.019
0.3924 −0.032
0.3927 −0.032
0.3959 −0.049
0.3980 −0.078
0.4004 −0.129
0.4010 −0.141
0.4043 −0.175
0.4060 −0.231
0.4087 −0.307
0.4090 −0.307
0.4118 −0.350
0.4134 −0.377
0.4164 −0.425
0.4169 −0.445
0.4199 −0.477
0.4216 −0.520
0.4248 −0.596
0.4254 −0.610
0.4277 −0.645
0.4299 −0.682
0.4327 −0.736
0.4331 −0.735
0.4358 −0.777
0.4375 −0.778
0.4400 −0.808
0.4405 −0.816
0.4428 −0.815
0.4445 −0.820

2442949 +
0.4328 +0.045

0.4338 +0.032
0.4363 +0.035
0.4371 +0.013
0.4392 +0.015
0.4398 +0.000
0.4423 −0.018
0.4432 −0.024
0.4451 −0.059
0.4461 −0.080
0.4491 −0.122
0.4514 −0.176
0.4522 −0.185
0.4542 −0.215
0.4552 −0.242
0.4575 −0.265
0.4585 −0.309
0.4611 −0.360
0.4617 −0.368
0.4643 −0.431
0.4653 −0.452
0.4674 −0.478
0.4684 −0.497
0.4708 −0.547
0.4723 −0.557
0.4743 −0.598
0.4755 −0.634
0.4776 −0.666
0.4786 −0.688
0.4809 −0.700
0.4819 −0.714
0.4848 −0.752

2442957 +
0.3622 +0.029
0.3631 +0.016
0.3648 −0.002
0.3655 +0.002
0.3671 −0.009
0.3679 −0.014
0.3695 −0.052
0.3702 −0.055
0.3709 −0.064
0.3751 −0.108
0.3759 −0.110

2442958 +
0.4678 +0.038
0.4702 +0.032
0.4712 +0.026
0.4740 +0.035
0.4752 +0.025
0.4777 +0.043
0.4799 +0.052
0.4820 +0.073
0.4833 +0.073
0.4858 +0.070
0.4872 +0.066
0.4893 +0.064
0.4907 +0.039
0.4931 +0.011
0.4938 +0.002
0.4959 −0.009

0.4973 −0.019
0.4997 −0.044
0.5011 −0.057
0.5028 −0.061
0.5042 −0.060
0.5065 −0.087
0.5077 −0.095
0.5098 −0.126
0.5108 −0.143
0.5133 −0.191
0.5145 −0.194
0.5171 −0.256
0.5181 −0.260
0.5216 −0.353
0.5244 −0.385
0.5258 −0.409

2442961 +
0.3706 −0.525
0.3720 −0.541
0.3748 −0.568
0.3758 −0.564
0.3794 −0.576
0.3808 −0.576
0.3842 −0.589
0.3859 −0.588

2442962 +
0.4647 +0.054
0.4661 +0.052
0.4693 −0.001
0.4707 −0.004
0.4735 −0.045
0.4749 −0.062
0.4784 −0.095
0.4798 −0.096
0.4825 −0.131
0.4839 −0.142
0.4867 −0.209
0.4881 −0.217
0.4909 −0.295
0.4923 −0.305
0.4950 −0.363
0.4964 −0.402
0.4992 −0.443
0.5002 −0.469
0.5034 −0.506
0.5048 −0.500
0.5097 −0.503
0.5124 −0.503
0.5166 −0.526
0.5182 −0.516
0.5213 −0.512
0.5229 −0.520
0.5256 −0.519
0.5270 −0.527
0.5298 −0.533
0.5315 −0.529
0.5347 −0.536
0.5361 −0.535
0.5388 −0.540
0.5402 −0.529

0.5430 −0.554
0.5440 −0.547
0.5465 −0.547
0.5479 −0.534
0.5502 −0.547
0.5513 −0.549

2442966 +
0.4186 +0.079
0.4200 +0.075
0.4227 +0.073
0.4241 +0.074
0.4269 +0.071
0.4284 +0.076
0.4315 +0.075
0.4329 +0.055
0.4362 +0.040
0.4377 +0.040
0.4406 +0.029
0.4420 +0.014
0.4454 −0.013
0.4468 −0.014
0.4495 −0.056
0.4506 −0.059
0.4533 −0.093
0.4547 −0.126
0.4572 −0.169
0.4588 −0.186
0.4619 −0.221
0.4634 −0.248
0.4665 −0.292
0.4679 −0.313
0.4710 −0.362
0.4722 −0.389
0.4790 −0.427
0.4802 −0.427
0.4826 −0.416
0.4839 −0.420
0.4862 −0.432
0.4873 −0.426
0.4903 −0.431
0.4914 −0.427
0.4943 −0.427
0.4955 −0.430
0.4984 −0.427
0.4998 −0.426
0.5025 −0.435
0.5033 −0.435
0.5061 −0.438
0.5076 −0.453
0.5100 −0.471
0.5111 −0.468
0.5139 −0.480
0.5151 −0.475
0.5179 −0.485
0.5193 −0.489
0.5216 −0.497
0.5231 −0.503
0.5252 −0.514
0.5262 −0.513
0.5297 −0.530
0.5308 −0.532

0.5332 −0.536
0.5345 −0.526
0.5371 −0.538
0.5382 −0.535
0.5404 −0.551
0.5417 −0.545
0.5443 −0.537
0.5453 −0.531
0.5477 −0.526
0.5489 −0.524
0.5516 −0.535
0.5527 −0.529

2442978 +
0.3960 −0.325
0.3964 −0.340
0.4007 −0.420
0.4030 −0.479
0.4035 −0.497
0.4063 −0.563
0.4081 −0.573
0.4106 −0.627
0.4111 −0.634
0.4139 −0.686
0.4154 −0.693
0.4185 −0.733
0.4191 −0.737
0.4219 −0.765
0.4236 −0.773
0.4262 −0.808
0.4267 −0.813
0.4293 −0.833
0.4310 −0.823
0.4339 −0.840
0.4343 −0.839
0.4373 −0.828
0.4390 −0.835
0.4420 −0.824
0.4428 −0.822
0.4483 −0.783
0.4515 −0.749
0.4520 −0.751
0.4549 −0.719
0.4576 −0.712

2443000 +
0.4738 −0.447
0.4743 −0.450
0.4774 −0.487
0.4838 −0.543
0.4844 −0.550
0.4873 −0.568
0.4893 −0.574
0.4927 −0.595
0.4932 −0.598
0.4967 −0.598
0.4988 −0.602
0.5025 −0.602
0.5033 −0.609
0.5066 −0.607
0.5087 −0.612
0.5121 −0.620

0.5127 −0.620
0.5170 −0.620
0.5219 −0.604
0.5224 −0.600
0.5260 −0.582
0.5282 −0.569
0.5344 −0.554
0.5348 −0.544
0.5388 −0.519
0.5408 −0.523

2443029 +
0.3475 +0.063
0.3491 +0.044
0.3534 +0.045
0.3581 +0.031
0.3607 +0.008
0.3625 +0.007
0.3652 −0.013
0.3666 −0.009
0.3694 −0.046
0.3708 −0.073

2443034 +
0.4203 +0.030
0.4217 +0.039
0.4252 +0.037
0.4266 +0.033
0.4301 +0.031
0.4318 +0.034
0.4349 +0.041
0.4363 +0.043
0.4650 −0.065
0.4665 −0.104
0.4699 −0.164
0.4710 −0.199
0.4870 −0.513
0.4886 −0.519
0.4919 −0.579
0.4933 −0.599
0.4967 −0.632
0.4981 −0.644
0.5016 −0.664
0.5030 −0.683
0.5059 −0.694
0.5075 −0.699
0.5106 −0.704
0.5120 −0.707
0.5155 −0.709
0.5169 −0.703
0.5200 −0.710
0.5215 −0.706
0.5250 −0.704
0.5266 −0.704
0.5294 −0.700
0.5308 −0.700

2443045 +
0.2551 −0.315
0.2559 −0.332
0.2581 −0.367
0.2590 −0.371

0.2612 −0.392
0.2621 −0.403
0.2643 −0.416
0.2652 −0.430
0.2675 −0.457
0.2686 −0.467
0.2708 −0.465
0.2776 −0.505
0.2788 −0.499
0.2821 −0.498
0.2843 −0.498
0.2853 −0.499
0.2876 −0.508
0.2888 −0.499
0.2910 −0.492
0.2923 −0.498
0.2944 −0.492
0.2956 −0.492

2443050 +
0.2884 +0.076
0.2921 +0.099
0.2935 +0.095
0.2963 +0.083
0.2977 +0.105
0.3012 +0.103
0.3026 +0.115
0.3055 +0.091
0.3067 +0.100
0.3100 +0.105
0.3112 +0.115
0.3338 +0.083
0.3389 +0.070
0.3428 +0.051
0.3473 +0.004
0.3550 −0.076
0.3604 −0.147
0.3618 −0.150
0.3645 −0.200
0.3659 −0.226
0.3691 −0.268
0.3706 −0.270
0.3734 −0.301
0.3748 −0.304
0.3779 −0.318
0.3792 −0.337
0.3839 −0.352
0.3876 −0.389
0.3905 −0.394
0.3917 −0.392
0.3947 −0.393
0.3963 −0.393
0.3994 −0.419
0.4005 −0.426
0.4033 −0.452
0.4047 −0.474
0.4175 −0.560
0.4194 −0.575
0.4220 −0.596
0.4228 −0.592
0.4272 −0.610
0.4296 −0.611
0.4304 −0.613
0.4321 −0.597
0.4328 −0.613
0.4346 −0.600
0.4354 −0.612
0.4373 −0.610
0.4381 −0.621
0.4398 −0.621
0.4405 −0.615
0.4425 −0.619
0.4433 −0.607
0.4545 −0.588
0.4553 −0.584
0.4571 −0.576
0.4578 −0.575

2443059 +
0.3878 +0.095
0.3892 +0.090
0.3926 +0.093
0.3941 +0.099
0.4137 +0.119
0.4151 +0.102
0.4179 +0.085
0.4196 +0.077
0.4240 +0.048
0.4253 +0.033
0.4283 −0.009
0.4292 −0.025
0.4322 −0.049
0.4334 −0.069
0.4368 −0.123
0.4383 −0.146
0.4415 −0.186
0.4431 −0.222
0.4463 −0.264
0.4477 −0.283
0.4512 −0.329
0.4529 −0.373
0.4567 −0.407
0.4578 −0.412

2443075 +
0.2764 −0.034
0.2770 −0.052
0.2787 −0.057
0.2795 −0.065
0.2809 −0.097
0.2816 −0.102
0.2834 −0.153
0.2841 −0.166
0.2858 −0.200
0.2865 −0.211
0.2882 −0.231
0.2905 −0.276
0.2915 −0.285
0.2930 −0.297
0.2938 −0.297
0.2955 −0.337
0.2963 −0.346
0.2980 −0.392
0.2987 −0.418
0.3003 −0.442
0.3011 −0.445
0.3026 −0.463
0.3032 −0.490
0.3047 −0.511
0.3056 −0.524
0.3077 −0.552
0.3083 −0.547
0.3099 −0.554
0.3106 −0.562
0.3121 −0.575
0.3128 −0.598
0.3144 −0.621
0.3151 −0.627
0.3168 −0.630
0.3177 −0.660
0.3202 −0.669
0.3216 −0.694
0.3223 −0.691
0.3238 −0.710
0.3246 −0.697
0.3264 −0.711
0.3271 −0.710
0.3286 −0.711
0.3292 −0.717
0.3313 −0.709
0.3330 −0.712
0.3338 −0.713
0.3360 −0.702
0.3376 −0.709
0.3383 −0.708

2443079 +
0.2450 −0.043
0.2461 −0.048
0.2494 −0.100
0.2505 −0.136
0.2540 −0.192
0.2553 −0.237
0.2584 −0.274
0.2598 −0.291
0.2627 −0.369
0.2637 −0.372
0.2669 −0.459
0.2683 −0.486
0.2716 −0.541
0.2730 −0.549
0.2761 −0.570
0.2773 −0.580
0.2806 −0.582
0.2820 −0.603
0.2855 −0.593
0.2869 −0.597
0.2903 −0.593
0.2917 −0.600
0.2952 −0.601
0.2968 −0.601
0.3008 −0.602
0.3022 −0.599
0.3057 −0.598
0.3071 −0.594
0.3117 −0.599

2443251 +
0.5754 −0.008
0.5757 −0.016
0.5783 −0.049
0.5796 −0.057
0.5825 −0.110
0.5828 −0.117
0.5851 −0.146
0.5864 −0.160
0.5924 −0.244
0.5939 −0.259
0.5964 −0.279
0.5968 −0.277
0.6022 −0.349
0.6050 −0.409

2443275 +
0.3771 +0.020
0.3780 +0.014
0.3801 −0.026
0.3810 −0.042
0.3831 −0.050
0.3839 −0.059
0.3893 −0.112
0.3902 −0.130
0.3924 −0.144
0.3932 −0.161
0.4004 −0.274
0.4013 −0.289
0.4034 −0.307
0.4046 −0.321
0.4068 −0.336
0.4098 −0.392
0.4108 −0.416
0.4129 −0.457
0.4138 −0.476
0.4161 −0.497
0.4171 −0.521
0.4193 −0.542
0.4206 −0.541
0.4227 −0.558
0.4237 −0.580
0.4259 −0.601
0.4269 −0.615
0.4291 −0.628
0.4300 −0.640
0.4322 −0.656
0.4333 −0.670
0.4362 −0.673
0.4373 −0.684
0.4438 −0.693
0.4460 −0.699
0.4470 −0.700
0.4491 −0.709
0.4500 −0.700
0.4531 −0.708

2443287 +
0.3362 −0.600
0.3372 −0.612
0.3393 −0.624
0.3403 −0.629
0.3425 −0.638
0.3435 −0.646
0.3461 −0.651
0.3497 −0.651
0.3507 −0.651
0.3528 −0.652
0.3538 −0.651
0.3561 −0.653
0.3572 −0.651
0.3594 −0.653
0.3605 −0.653
0.3627 −0.651
0.3637 −0.645
0.3659 −0.646
0.3669 −0.634

2443296 +
0.3671 −0.188
0.3680 −0.193
0.3702 −0.232
0.3711 −0.237
0.3732 −0.272
0.3743 −0.276
0.3764 −0.303
0.3773 −0.318
0.3794 −0.333
0.3804 −0.360
0.3824 −0.368
0.3833 −0.387
0.3858 −0.409
0.3871 −0.409
0.3890 −0.420
0.3898 −0.421
0.3922 −0.444
0.3933 −0.446
0.4018 −0.501
0.4027 −0.505
0.4047 −0.514
0.4056 −0.513
0.4078 −0.519
0.4088 −0.526
0.4117 −0.552
0.4126 −0.555
0.4148 −0.551
0.4158 −0.555
0.4178 −0.571
0.4188 −0.569
0.4209 −0.586
0.4218 −0.586
0.4240 −0.591
0.4250 −0.593
0.4270 −0.594
0.4279 −0.586
0.4303 −0.581
0.4331 −0.584
0.4339 −0.583

2443305 +
0.4457 −0.234
0.4467 −0.248
0.4492 −0.288

Table 3.

0.4502 −0.315
0.4528 −0.331
0.4539 −0.347
0.4569 −0.387
0.4584 −0.395
0.4612 −0.410
0.4622 −0.408
0.4650 −0.425
0.4662 −0.425
0.4749 −0.487
0.4759 −0.496
0.4784 −0.497
0.4797 −0.516
0.4824 −0.542
0.4837 −0.550
0.4863 −0.571
0.4874 −0.566
0.4900 −0.583
0.4914 −0.590
0.4940 −0.602
0.4951 −0.599
0.4978 −0.602
0.4990 −0.610
0.5021 −0.619
0.5034 −0.615
0.5060 −0.617
0.5070 −0.622
0.5105 −0.616
0.5115 −0.613
0.5144 −0.620
0.5157 −0.617
0.5186 −0.625
0.5198 −0.619
0.5226 −0.620
0.5238 −0.611
0.5273 −0.610
0.5282 −0.598
0.5310 −0.583
0.5323 −0.578
0.5372 −0.564
0.5400 −0.573
0.5410 −0.567

2443352 +
0.4663 +0.053
0.4674 +0.058
0.4705 +0.053
0.4718 +0.053
0.4748 +0.045
0.4761 +0.041
0.4791 +0.025
0.4805 +0.013
0.4833 −0.035
0.4845 −0.037
0.4875 −0.081
0.4886 −0.084
0.4913 −0.130
0.4926 −0.148
0.4957 −0.174
0.4969 −0.208
0.4997 −0.237
0.5008 −0.249
0.5038 −0.318
0.5051 −0.325
0.5077 −0.349
0.5087 −0.358
0.5119 −0.413
0.5132 −0.438
0.5159 −0.459
0.5173 −0.476
0.5201 −0.494
0.5215 −0.516
0.5248 −0.546
0.5258 −0.541
0.5287 −0.562
0.5299 −0.572
0.5329 −0.592
0.5342 −0.596
0.5369 −0.606
0.5381 −0.623
0.5410 −0.637
0.5419 −0.634
0.5446 −0.648
0.5456 −0.656
0.5485 −0.662
0.5495 −0.676
0.5526 −0.687
0.5536 −0.689
0.5566 −0.706
0.5576 −0.704
0.5605 −0.710
0.5622 −0.703
0.5656 −0.703

2443368 +
0.3526 −0.110
0.3533 −0.120
0.3557 −0.179
0.3564 −0.197
0.3589 −0.239
0.3600 −0.251
0.3768 −0.511
0.3780 −0.537
0.3807 −0.561
0.3818 −0.566
0.3969 −0.671
0.3980 −0.680
0.4013 −0.706
0.4026 −0.707
0.4054 −0.713
0.4066 −0.716
0.4092 −0.714
0.4105 −0.715
0.4177 −0.699
0.4193 −0.695
0.4217 −0.679
0.4229 −0.681
0.4262 −0.674
0.4273 −0.663
0.4302 −0.656
0.4314 −0.637
0.4339 −0.631
0.4350 −0.639
0.4374 −0.622

2443372 +
0.3506 −0.516
0.3510 −0.522
0.3534 −0.550
0.3549 −0.552
0.3575 −0.571
0.3578 −0.572
0.3605 −0.578
0.3620 −0.583
0.3652 −0.589
0.3657 −0.592
0.3707 −0.605
0.3721 −0.610
0.3749 −0.616
0.3752 −0.618
0.3777 −0.636
0.3799 −0.628
0.3825 −0.640
0.3830 −0.640
0.3866 −0.630
0.3881 −0.626
0.3905 −0.615
0.3908 −0.616
0.3939 −0.617
0.3954 −0.615
0.3980 −0.610
0.3985 −0.609
0.4013 −0.608
0.4062 −0.592
0.4065 −0.584
0.4143 −0.577
0.4148 −0.572
0.4175 −0.564
0.4188 −0.559
0.4221 −0.559
0.4226 −0.549
0.4253 −0.527
0.4274 −0.512
0.4305 −0.502
0.4312 −0.502

2443381 +
0.4820 −0.553
0.4841 −0.556
0.4869 −0.542
0.4874 −0.538
0.4937 −0.535
0.4980 −0.523
0.4985 −0.531
0.5017 −0.528
0.5032 −0.523

2443385 +
0.4019 −0.447
0.4027 −0.456
0.4049 −0.466
0.4057 −0.469
0.4079 −0.466
0.4125 −0.487
0.4134 −0.489
0.4155 −0.492
0.4163 −0.519
0.4186 −0.527
0.4198 −0.526
0.4225 −0.570
0.4238 −0.574
0.4270 −0.575
0.4283 −0.589
0.4318 −0.605
0.4355 −0.610
0.4365 −0.615
0.4406 −0.610
0.4435 −0.622
0.4449 −0.622
0.4480 −0.616
0.4495 −0.617
0.4521 −0.618
0.4531 −0.618
0.4555 −0.607
0.4565 −0.598
0.4594 −0.590
0.4610 −0.586

2443390 +
0.4726 −0.187
0.4735 −0.184
0.4774 −0.231
0.4801 −0.257
0.4810 −0.262
0.4836 −0.277
0.4845 −0.295
0.4872 −0.318
0.4881 −0.335
0.4908 −0.368
0.4918 −0.370
0.4945 −0.397
0.4954 −0.398
0.4983 −0.417
0.4993 −0.431
0.5031 −0.457
0.5041 −0.466
0.5068 −0.496
0.5076 −0.509
0.5103 −0.521
0.5112 −0.527
0.5136 −0.555
0.5145 −0.575
0.5173 −0.597
0.5183 −0.605
0.5208 −0.616
0.5218 −0.627

2443393 +
0.3083 −0.145
0.3095 −0.176
0.3122 −0.213
0.3136 −0.223
0.3164 −0.266
0.3174 −0.268
0.3204 −0.304
0.3216 −0.323
0.3240 −0.332
0.3254 −0.338
0.3279 −0.372
0.3290 −0.395
0.3320 −0.449
0.3334 −0.454
0.3358 −0.496
0.3372 −0.520
0.3402 −0.552
0.3414 −0.556
0.3442 −0.592
0.3482 −0.614
0.3495 −0.639
0.3520 −0.644
0.3534 −0.654
0.3563 −0.673
0.3576 −0.672
0.3602 −0.680
0.3615 −0.692
0.3643 −0.690
0.3657 −0.695
0.3687 −0.690
0.3700 −0.699
0.3729 −0.702
0.3743 −0.705
0.3785 −0.706
0.3812 −0.707
0.3824 −0.695
0.3852 −0.702
0.3865 −0.697
0.3888 −0.690
0.3907 −0.682

2443394 +
0.4290 +0.030
0.4300 +0.004
0.4326 −0.026
0.4336 −0.033
0.4368 −0.079
0.4380 −0.104
0.4407 −0.122
0.4418 −0.129
0.4444 −0.160
0.4458 −0.190
0.4485 −0.204
0.4499 −0.230
0.4525 −0.288
0.4538 −0.319
0.4576 −0.385
0.4599 −0.416
0.4681 −0.531
0.4692 −0.543
0.4719 −0.565
0.4732 −0.570
0.4759 −0.605
0.4771 −0.614
0.4798 −0.657
0.4810 −0.668
0.4842 −0.683
0.4852 −0.690
0.4885 −0.695
0.4901 −0.696
0.4928 −0.703
0.4942 −0.710

0.4970 −0.714
0.4983 −0.702
0.5012 −0.714
0.5024 −0.720
0.5051 −0.731
0.5064 −0.721
0.5092 −0.725
0.5105 −0.727
0.5133 −0.730
0.5144 −0.726
0.5176 −0.730
0.5187 −0.729

2443401 +
0.2758 −0.660
0.2766 −0.670
0.2788 −0.702
0.2797 −0.720
0.2816 −0.726
0.2824 −0.736
0.2844 −0.740
0.2853 −0.751
0.2945 −0.765
0.3022 −0.759
0.3031 −0.756
0.3051 −0.756
0.3059 −0.761
0.3080 −0.755
0.3088 −0.748

2443414 +
0.2849 −0.446
0.2853 −0.446
0.2886 −0.469
0.2896 −0.490
0.2928 −0.519
0.2940 −0.520
0.2971 −0.539
0.2985 −0.553
0.3032 −0.567
0.3086 −0.597
0.3132 −0.624
0.3167 −0.634
0.3179 −0.640
0.3207 −0.642
0.3219 −0.642
0.3249 −0.634
0.3263 −0.640
0.3297 −0.632
0.3370 −0.623
0.3386 −0.619
0.3422 −0.604
0.3434 −0.590

2443415 +
0.4060 −0.254
0.4072 −0.256
0.4102 −0.307
0.4113 −0.332
0.4136 −0.375
0.4147 −0.380
0.4176 −0.436

0.4190 −0.448
0.4216 −0.474
0.4227 −0.480
0.4249 −0.490
0.4263 −0.513
0.4289 −0.525
0.4301 −0.537
0.4327 −0.546
0.4341 −0.550
0.4367 −0.573
0.4380 −0.575
0.4470 −0.608
0.4484 −0.608
0.4510 −0.601
0.4522 −0.607
0.4556 −0.616
0.4569 −0.606
0.4610 −0.601
0.4626 −0.602
0.4658 −0.600
0.4671 −0.600
0.4708 −0.582
0.4722 −0.582
0.4755 −0.580
0.4768 −0.567
0.4800 −0.551
0.4814 −0.551

2443426 +
0.2338 −0.471
0.2345 −0.478
0.2373 −0.500
0.2423 −0.540
0.2431 −0.546
0.2447 −0.543
0.2456 −0.541
0.2474 −0.546
0.2481 −0.550
0.2507 −0.552
0.2523 −0.550
0.2531 −0.555
0.2551 −0.576
0.2558 −0.576
0.2575 −0.583
0.2582 −0.572
0.2599 −0.579
0.2607 −0.584
0.2628 −0.565
0.2635 −0.576
0.2654 −0.575
0.2662 −0.571
0.2679 −0.575
0.2686 −0.574
0.2702 −0.568
0.2711 −0.571
0.2730 −0.560
0.2737 −0.567

2443432 +
0.3945 +0.095
0.3952 +0.097
0.3979 +0.096

0.4000 +0.086
0.4028 +0.072
0.4035 +0.062
0.4063 +0.038
0.4091 +0.021
0.4118 +0.003
0.4125 −0.001
0.4160 −0.073
0.4167 −0.081
0.4195 −0.117
0.4230 −0.144
0.4257 −0.196
0.4264 −0.200
0.4292 −0.223
0.4313 −0.235
0.4341 −0.253
0.4348 −0.251
0.4459 −0.400
0.4466 −0.400
0.4493 −0.440
0.4514 −0.458
0.4549 −0.523
0.4556 −0.526
0.4584 −0.542
0.4605 −0.545
0.4632 −0.576
0.4639 −0.575
0.4674 −0.595
0.4695 −0.601
0.4723 −0.620
0.4730 −0.630
0.4757 −0.651
0.4778 −0.684
0.4806 −0.680
0.4813 −0.686
0.4841 −0.695
0.4862 −0.695

2443435 +
0.2736 −0.349
0.2744 −0.366
0.2770 −0.408
0.2779 −0.406
0.2811 −0.425
0.2820 −0.440
0.2895 −0.564
0.2904 −0.564
0.2935 −0.611
0.2944 −0.614
0.2969 −0.660
0.2978 −0.667
0.3039 −0.724
0.3046 −0.730
0.3070 −0.735
0.3078 −0.741
0.3102 −0.750

2443436 +
0.3869 −0.097
0.3883 −0.106
0.3907 −0.128
0.3919 −0.143

0.3945 −0.191
0.3959 −0.202
0.3988 −0.251
0.4000 −0.264
0.4026 −0.309
0.4039 −0.335
0.4062 −0.353
0.4072 −0.379
0.4098 −0.419
0.4104 −0.444
0.4134 −0.469
0.4145 −0.481
0.4178 −0.533
0.4190 −0.541
0.4216 −0.594
0.4230 −0.600
0.4256 −0.651
0.4269 −0.676
0.4300 −0.711
0.4330 −0.716
0.4358 −0.740
0.4369 −0.742
0.4391 −0.751
0.4407 −0.763
0.4437 −0.777
0.4448 −0.780
0.4481 −0.776
0.4520 −0.786
0.4533 −0.774
0.4561 −0.787
0.4575 −0.783

2443439 +
0.2444 −0.497
0.2456 −0.515
0.2495 −0.598
0.2509 −0.620
0.2543 −0.660
0.2556 −0.682
0.2595 −0.728
0.2607 −0.727
0.2645 −0.739
0.2659 −0.765
0.2695 −0.770
0.2744 −0.785
0.2760 −0.792
0.2798 −0.783
0.2811 −0.773
0.2847 −0.770
0.2860 −0.765
0.2892 −0.758
0.2907 −0.751
0.2945 −0.746
0.2993 −0.731
0.3009 −0.716
0.3057 −0.703
0.3074 −0.697

2443456 +
0.2538 −0.582
0.2548 −0.589
0.2583 −0.596

0.2593 −0.603
0.2623 −0.599
0.2635 −0.595
0.2666 −0.599
0.2675 −0.592
0.2704 −0.597
0.2716 −0.595
0.2749 −0.599
0.2762 −0.598

2443477 +
0.2153 −0.191
0.2190 −0.275
0.2202 −0.296
0.2226 −0.352
0.2238 −0.364
0.2264 −0.405
0.2280 −0.442
0.2308 −0.476
0.2318 −0.487
0.2348 −0.534
0.2358 −0.561
0.2388 −0.623
0.2398 −0.646
0.2431 −0.701
0.2442 −0.708
0.2475 −0.707
0.2488 −0.731
0.2518 −0.765
0.2530 −0.771
0.2563 −0.795
0.2573 −0.800
0.2605 −0.805
0.2624 −0.806
0.2653 −0.802
0.2667 −0.806
0.2697 −0.809
0.2709 −0.794
0.2738 −0.782
0.2751 −0.757
0.2785 −0.739
0.2799 −0.738
0.2830 −0.718
0.2841 −0.710
0.2870 −0.707
0.2884 −0.702

2443490 +
0.2255 −0.198
0.2264 −0.205
0.2287 −0.257
0.2296 −0.266
0.2317 −0.303
0.2325 −0.320
0.2347 −0.363
0.2356 −0.367
0.2379 −0.413
0.2387 −0.420
0.2410 −0.450
0.2420 −0.483
0.2444 −0.517
0.2453 −0.537

Table 3.

0.2476 −0.556
0.2486 −0.559
0.2506 −0.594
0.2516 −0.600
0.2539 −0.625
0.2549 −0.635
0.2575 −0.638
0.2584 −0.636
0.2620 −0.660
0.2630 −0.655
0.2653 −0.657
0.2662 −0.665
0.2685 −0.677
0.2693 −0.683
0.2716 −0.690
0.2725 −0.692
0.2768 −0.708
0.2789 −0.702
0.2799 −0.701
0.2823 −0.695
0.2833 −0.695
0.2855 −0.690
0.2865 −0.690
0.2909 −0.680
0.2918 −0.674

2443590 +
0.5785 −0.070
0.5797 −0.084
0.5832 −0.145
0.5846 −0.157
0.5872 −0.172
0.5886 −0.189
0.5912 −0.218
0.5922 −0.218
0.5953 −0.244
0.5966 −0.250
0.6006 −0.297
0.6036 −0.302
0.6048 −0.315
0.6077 −0.360
0.6096 −0.376
0.6141 −0.421
0.6173 −0.447
0.6187 −0.466
0.6221 −0.506
0.6237 −0.524
0.6262 −0.540
0.6275 −0.549
0.6308 −0.599
0.6319 −0.607
0.6345 −0.650
0.6357 −0.669
0.6388 −0.687
0.6398 −0.713

2443598 +
0.4743 +0.091
0.4751 +0.075
0.4772 +0.070
0.4784 +0.070
0.4821 +0.061
0.4847 +0.060
0.4859 +0.055
0.4888 +0.054
0.4898 +0.057
0.4921 +0.058
0.4931 +0.075
0.4958 +0.067
0.4971 +0.064
0.5086 +0.037
0.5099 +0.010
0.5131 −0.022
0.5145 −0.047
0.5188 −0.096
0.5219 −0.124
0.5232 −0.153
0.5258 −0.201
0.5269 −0.240
0.5304 −0.292
0.5342 −0.389
0.5355 −0.414
0.5413 −0.541
0.5433 −0.569
0.5441 −0.598
0.5463 −0.611
0.5477 −0.628
0.5515 −0.691
0.5537 −0.717
0.5545 −0.713
0.5571 −0.718
0.5619 −0.751
0.5652 −0.768
0.5663 −0.776
0.5686 −0.774
0.5696 −0.773
0.5719 −0.769
0.5729 −0.777
0.5757 −0.790
0.5767 −0.775
0.5790 −0.787
0.5797 −0.770

2443607 +
0.5527 −0.016
0.5537 −0.016
0.5561 −0.040
0.5570 −0.033
0.5598 −0.050
0.5606 −0.069
0.5630 −0.088
0.5639 −0.107
0.5668 −0.140
0.5677 −0.150
0.5701 −0.206
0.5711 −0.210
0.5734 −0.235
0.5770 −0.284
0.5783 −0.330
0.5813 −0.373
0.5827 −0.387
0.5854 −0.422
0.5892 −0.486
0.5901 −0.511

2443700 +
0.5213 −0.018
0.5220 −0.018
0.5241 −0.030
0.5248 −0.057
0.5269 −0.070
0.5276 −0.085
0.5296 −0.106
0.5303 −0.119
0.5324 −0.141
0.5331 −0.156
0.5352 −0.209
0.5359 −0.220
0.5408 −0.291
0.5414 −0.305
0.5435 −0.321
0.5442 −0.332
0.5463 −0.382
0.5470 −0.395
0.5491 −0.414
0.5498 −0.421
0.5519 −0.460
0.5526 −0.468

2443703 +
0.3529 +0.040
0.3537 +0.042
0.3565 +0.033
0.3619 +0.005
0.3629 −0.029
0.3654 −0.062
0.3680 −0.084
0.3698 −0.089
0.3706 −0.119
0.3723 −0.143
0.3731 −0.143
0.3749 −0.155
0.3757 −0.161
0.3775 −0.182
0.3783 −0.202
0.3811 −0.254
0.3819 −0.273
0.3846 −0.298
0.3864 −0.323
0.3872 −0.320
0.3890 −0.326
0.3899 −0.338

2443707 +
0.3730 −0.285
0.3738 −0.285
0.3763 −0.303
0.3771 −0.315
0.3801 −0.313
0.3823 −0.331
0.3832 −0.323
0.3859 −0.352
0.3871 −0.366
0.3907 −0.370
0.3928 −0.384
0.3936 −0.393
0.3969 −0.413
0.4033 −0.465
0.4052 −0.469
0.4062 −0.488
0.4084 −0.506
0.4094 −0.529
0.4114 −0.543
0.4123 −0.566
0.4152 −0.597
0.4175 −0.611
0.4186 −0.634
0.4207 −0.637
0.4220 −0.633
0.4241 −0.666
0.4249 −0.649
0.4280 −0.653

2443712 +
0.4843 −0.393
0.4856 −0.401
0.4886 −0.442
0.4897 −0.468
0.4924 −0.531
0.4937 −0.553
0.4965 −0.607
0.4976 −0.623
0.5006 −0.669
0.5018 −0.676
0.5046 −0.700
0.5062 −0.733
0.5095 −0.755
0.5108 −0.755
0.5151 −0.772
0.5186 −0.783
0.5204 −0.785
0.5235 −0.775
0.5248 −0.779
0.5280 −0.774
0.5297 −0.773
0.5329 −0.783
0.5345 −0.778
0.5376 −0.765
0.5388 −0.760
0.5422 −0.762
0.5466 −0.743
0.5480 −0.731
0.5512 −0.724
0.5523 −0.705
0.5553 −0.714
0.5565 −0.700

2443716 +
0.4402 −0.267
0.4421 −0.313
0.4443 −0.392
0.4451 −0.416
0.4475 −0.461
0.4483 −0.487
0.4506 −0.528
0.4516 −0.552
0.4535 −0.576
0.4543 −0.594
0.4563 −0.635
0.4592 −0.669
0.4600 −0.681
0.4620 −0.718
0.4628 −0.722
0.4650 −0.760
0.4660 −0.763
0.4678 −0.774
0.4687 −0.777
0.4707 −0.783
0.4716 −0.794
0.4737 −0.817
0.4747 −0.834
0.4769 −0.845
0.4778 −0.848

2443720 +
0.3898 −0.108
0.3906 −0.135
0.3924 −0.161
0.3933 −0.173
0.3950 −0.206
0.3958 −0.208
0.3978 −0.229
0.3986 −0.261
0.4005 −0.278
0.4014 −0.316
0.4033 −0.342
0.4041 −0.362
0.4060 −0.429
0.4069 −0.445
0.4125 −0.534
0.4134 −0.543
0.4153 −0.594
0.4182 −0.642
0.4191 −0.664
0.4219 −0.707
0.4241 −0.723
0.4250 −0.744
0.4271 −0.754
0.4280 −0.781
0.4299 −0.810
0.4308 −0.812
0.4326 −0.825
0.4335 −0.835
0.4353 −0.847
0.4361 −0.848
0.4379 −0.854
0.4387 −0.846
0.4407 −0.840
0.4443 −0.820
0.4451 −0.818
0.4480 −0.811

2443721 +
0.5433 −0.500
0.5445 −0.508
0.5471 −0.571
0.5481 −0.602
0.5502 −0.639
0.5514 −0.651
0.5539 −0.694

0.5551 −0.708
0.5575 −0.728
0.5589 −0.744
0.5613 −0.755
0.5625 −0.776
0.5655 −0.799
0.5665 −0.815
0.5688 −0.846
0.5698 −0.840

2443732 +
0.3240 −0.666
0.3265 −0.657
0.3285 −0.651
0.3301 −0.649
0.3324 −0.637
0.3334 −0.644
0.3363 −0.627
0.3375 −0.625
0.3414 −0.611
0.3439 −0.611
0.3453 −0.591
0.3477 −0.587
0.3490 −0.576
0.3515 −0.564
0.3527 −0.556

2443737 +
0.3444 +0.063
0.3454 +0.057
0.3473 +0.047
0.3484 +0.044
0.3507 +0.035
0.3538 +0.023
0.3548 +0.020
0.3583 +0.014
0.3604 +0.000
0.3614 +0.001
0.3638 −0.003
0.3675 −0.043
0.3716 −0.079
0.3729 −0.106
0.3761 −0.126
0.3774 −0.152
0.3800 −0.182
0.3817 −0.230
0.3842 −0.273
0.3852 −0.286
0.3889 −0.386
0.3940 −0.465
0.3966 −0.497
0.3978 −0.511
0.4022 −0.522
0.4050 −0.541
0.4074 −0.545
0.4105 −0.537
0.4119 −0.538
0.4147 −0.535
0.4157 −0.536
0.4189 −0.538
0.4202 −0.545
0.4231 −0.529
0.4246 −0.530
0.4275 −0.530
0.4287 −0.531

2443742 +
0.4784 −0.031
0.4798 −0.043
0.4826 −0.079
0.4840 −0.094
0.4868 −0.145
0.4877 −0.153
0.4908 −0.214
0.4921 −0.240
0.4951 −0.263
0.4963 −0.279
0.4995 −0.309
0.5044 −0.343
0.5071 −0.357
0.5102 −0.364
0.5114 −0.374
0.5146 −0.385
0.5173 −0.417
0.5201 −0.418
0.5215 −0.418
0.5239 −0.404
0.5253 −0.410
0.5280 −0.408
0.5294 −0.397
0.5321 −0.390
0.5333 −0.396
0.5359 −0.403
0.5371 −0.406
0.5400 −0.415
0.5442 −0.435
0.5454 −0.446
0.5486 −0.458
0.5497 −0.460
0.5528 −0.459
0.5541 −0.472
0.5574 −0.471
0.5587 −0.472
0.5618 −0.504
0.5632 −0.513
0.5666 −0.510
0.5680 −0.517
0.5707 −0.519
0.5722 −0.530
0.5750 −0.530
0.5764 −0.530
0.5784 −0.534

2443747 +
0.5445 +0.110
0.5463 +0.110
0.5492 +0.115
0.5506 +0.110
0.5537 +0.118
0.5548 +0.113
0.5576 +0.102
0.5588 +0.092
0.5616 +0.081
0.5627 +0.080

2443749 +
0.2969 −0.005
0.2977 −0.010
0.3006 −0.037
0.3025 −0.066
0.3033 −0.071
0.3054 −0.085
0.3062 −0.101
0.3083 −0.094
0.3091 −0.107
0.3156 −0.183
0.3164 −0.190
0.3193 −0.230
0.3212 −0.234
0.3221 −0.256
0.3240 −0.260
0.3249 −0.284
0.3268 −0.311
0.3277 −0.305
0.3305 −0.334
0.3314 −0.344
0.3334 −0.380
0.3343 −0.385
0.3363 −0.411
0.3373 −0.420
0.3395 −0.430
0.3403 −0.453
0.3425 −0.478
0.3434 −0.485
0.3458 −0.517
0.3467 −0.522
0.3488 −0.559
0.3497 −0.558
0.3517 −0.582
0.3526 −0.583
0.3549 −0.615
0.3557 −0.617
0.3578 −0.623
0.3587 −0.631
0.3609 −0.661
0.3618 −0.661
0.3639 −0.673
0.3649 −0.673
0.3668 −0.673
0.3678 −0.687
0.3701 −0.711
0.3710 −0.701
0.3734 −0.713
0.3743 −0.715
0.3764 −0.709
0.3773 −0.716
0.3796 −0.711
0.3805 −0.705
0.3825 −0.715
0.3834 −0.715
0.3854 −0.707
0.3864 −0.709
0.3914 −0.699
0.3924 −0.693

2443750 +
0.4113 +0.113
0.4124 +0.112
0.4152 +0.104
0.4164 +0.103
0.4199 +0.104
0.4213 +0.104
0.4243 +0.064
0.4260 +0.045
0.4291 +0.022
0.4304 +0.003
0.4331 −0.011
0.4347 −0.019
0.4377 −0.036
0.4392 −0.053
0.4424 −0.079
0.4438 −0.091
0.4479 −0.137
0.4511 −0.173
0.4527 −0.210
0.4569 −0.274
0.4597 −0.314
0.4656 −0.383
0.4712 −0.470
0.4741 −0.491
0.4754 −0.510
0.4783 −0.548
0.4798 −0.569
0.4826 −0.612
0.4840 −0.642
0.4868 −0.700
0.4879 −0.716
0.4906 −0.748

2443753 +
0.2956 −0.318
0.2964 −0.353
0.2986 −0.397
0.2995 −0.401
0.3064 −0.568
0.3072 −0.600
0.3092 −0.619
0.3117 −0.695
0.3124 −0.698

2443763 +
0.4711 −0.304
0.4717 −0.339
0.4734 −0.335
0.4742 −0.343
0.4761 −0.383
0.4769 −0.430
0.4790 −0.476
0.4797 −0.493
0.4821 −0.532
0.4846 −0.580
0.4864 −0.592
0.4871 −0.595
0.4888 −0.606
0.4896 −0.611
0.4915 −0.650
0.4922 −0.645
0.4939 −0.667
0.4966 −0.691
0.4973 −0.706
0.4991 −0.725
0.5000 −0.731
0.5035 −0.747
0.5081 −0.792
0.5089 −0.787
0.5107 −0.808
0.5115 −0.789

2443766 +
0.2789 +0.010
0.2820 −0.044
0.2851 −0.090
0.2864 −0.106
0.2894 −0.169
0.2932 −0.212
0.2962 −0.269
0.2980 −0.294
0.3009 −0.328
0.3022 −0.350
0.3056 −0.394
0.3071 −0.431
0.3120 −0.507
0.3150 −0.541
0.3175 −0.585
0.3220 −0.651
0.3253 −0.688
0.3291 −0.710
0.3326 −0.725
0.3339 −0.731
0.3367 −0.738
0.3381 −0.731
0.3413 −0.733
0.3425 −0.731
0.3451 −0.743
0.3463 −0.736
0.3491 −0.739
0.3503 −0.737
0.3536 −0.723
0.3552 −0.713
0.3586 −0.705
0.3602 −0.685

2443791 +
0.2407 +0.059
0.2414 +0.055
0.2437 +0.052
0.2445 +0.026
0.2465 +0.012
0.2472 +0.012
0.2498 −0.015
0.2516 −0.030
0.2525 −0.046
0.2546 −0.058
0.2554 −0.081
0.2574 −0.112
0.2581 −0.110
0.2600 −0.142
0.2607 −0.149
0.2638 −0.188
0.2646 −0.194

0.2670 −0.210
0.2678 −0.222
0.2690 −0.239
0.2699 −0.250
0.2716 −0.292
0.2745 −0.329
0.2754 −0.348
0.2771 −0.361
0.2779 −0.388
0.2805 −0.420
0.2822 −0.439
0.2831 −0.434
0.2861 −0.469
0.2870 −0.488
0.2887 −0.518
0.2895 −0.521
0.2917 −0.581
0.2925 −0.591
0.2943 −0.596
0.2951 −0.613
0.2978 −0.642
0.2997 −0.666
0.3006 −0.662
0.3024 −0.681
0.3032 −0.702
0.3048 −0.707
0.3055 −0.714
0.3073 −0.724
0.3081 −0.722
0.3098 −0.736
0.3107 −0.735
0.3126 −0.747
0.3134 −0.754
0.3151 −0.758
0.3159 −0.760
0.3178 −0.762
0.3186 −0.763
0.3203 −0.756
0.3211 −0.755
0.3230 −0.740
0.3238 −0.737
0.3257 −0.722
0.3266 −0.732

2443792 +
0.3778 +0.034
0.3789 +0.023
0.3832 −0.012
0.3861 −0.030
0.3873 −0.040
0.3900 −0.085
0.3913 −0.109
0.3953 −0.144
0.3996 −0.226
0.4027 −0.270
0.4041 −0.299
0.4069 −0.336
0.4082 −0.357
0.4125 −0.434
0.4151 −0.461
0.4163 −0.492
0.4190 −0.514
0.4203 −0.530
0.4231 −0.574
0.4244 −0.587
0.4271 −0.633
0.4357 −0.747
0.4368 −0.742
0.4395 −0.756
0.4407 −0.772
0.4431 −0.775
0.4444 −0.764
0.4468 −0.767
0.4479 −0.768

2443795 +
0.2275 −0.114
0.2282 −0.127
0.2299 −0.157
0.2307 −0.163
0.2324 −0.196
0.2332 −0.218
0.2348 −0.247
0.2355 −0.271
0.2374 −0.302
0.2382 −0.342
0.2398 −0.395
0.2406 −0.396
0.2427 −0.446
0.2435 −0.450
0.2451 −0.490
0.2461 −0.500
0.2479 −0.540
0.2487 −0.542
0.2510 −0.604
0.2527 −0.638
0.2534 −0.666
0.2552 −0.680
0.2559 −0.700
0.2576 −0.717
0.2584 −0.711
0.2599 −0.743
0.2624 −0.746
0.2631 −0.761
0.2663 −0.781
0.2683 −0.780
0.2692 −0.793
0.2711 −0.799
0.2719 −0.802
0.2738 −0.808
0.2746 −0.813
0.2763 −0.819
0.2771 −0.830
0.2792 −0.824
0.2801 −0.833
0.2821 −0.831
0.2845 −0.830
0.2854 −0.820
0.2871 −0.819
0.2878 −0.806
0.2896 −0.800
0.2904 −0.802
0.2923 −0.801
0.2931 −0.789
0.2948 −0.784
0.2955 −0.780
0.2972 −0.780
0.2979 −0.766

2443796 +
0.3507 −0.057
0.3523 −0.059
0.3556 −0.100
0.3571 −0.140
0.3605 −0.194
0.3623 −0.219
0.3663 −0.269
0.3681 −0.306
0.3716 −0.410
0.3737 −0.447
0.3783 −0.536
0.3838 −0.611
0.3895 −0.682
0.3953 −0.741
0.4004 −0.825
0.4057 −0.843
0.4112 −0.840
0.4182 −0.830
0.4226 −0.801

2443800 +
0.2988 +0.000
0.3023 −0.032
0.3033 −0.026
0.3068 −0.065
0.3080 −0.081
0.3091 −0.111
0.3113 −0.125
0.3127 −0.148
0.3139 −0.183
0.3163 −0.193
0.3174 −0.210
0.3188 −0.224
0.3212 −0.263
0.3229 −0.275
0.3238 −0.295
0.3267 −0.341
0.3278 −0.345
0.3294 −0.375
0.3320 −0.395
0.3335 −0.424
0.3350 −0.447
0.3376 −0.475
0.3394 −0.509
0.3407 −0.550
0.3433 −0.574
0.3443 −0.599
0.3456 −0.609
0.3479 −0.655
0.3493 −0.665
0.3504 −0.698
0.3529 −0.723
0.3543 −0.725
0.3580 −0.738
0.3595 −0.750
0.3609 −0.741
0.3662 −0.756
0.3678 −0.744
0.3705 −0.752
0.3722 −0.745
0.3736 −0.746

2443975 +
0.4924 −0.434
0.4937 −0.434
0.4971 −0.448
0.4986 −0.447
0.5019 −0.450
0.5044 −0.456
0.5078 −0.450
0.5095 −0.448
0.5134 −0.459
0.5153 −0.460
0.5198 −0.454
0.5213 −0.459
0.5252 −0.457
0.5271 −0.454
0.5309 −0.454
0.5326 −0.458
0.5375 −0.456
0.5392 −0.467
0.5430 −0.476
0.5448 −0.479
0.5488 −0.489
0.5507 −0.491
0.5545 −0.486
0.5562 −0.490
0.5600 −0.494
0.5618 −0.493
0.5654 −0.492
0.5678 −0.487
0.5722 −0.494
0.5739 −0.490
0.5771 −0.488
0.5789 −0.482
0.5830 −0.471
0.5849 −0.475
0.5886 −0.456
0.5906 −0.450
0.5946 −0.441
0.5972 −0.440
0.6010 −0.433
0.6027 −0.432

2443976 +
0.5780 +0.098
0.5794 +0.090
0.5818 +0.066
0.5834 +0.058
0.5861 +0.032
0.5873 +0.010
0.5900 −0.011
0.5947 −0.078
0.5962 −0.087
0.6003 −0.138
0.6031 −0.184
0.6047 −0.203
0.6091 −0.243
0.6107 −0.260
0.6135 −0.299
0.6149 −0.329
0.6176 −0.350
0.6190 −0.376

2444005 +
0.4915 −0.045
0.4926 −0.054
0.5006 −0.133
0.5016 −0.141
0.5036 −0.173
0.5047 −0.185
0.5068 −0.212
0.5079 −0.240
0.5099 −0.274
0.5110 −0.294
0.5131 −0.341
0.5141 −0.357
0.5171 −0.396
0.5182 −0.394

2444009 +
0.4675 −0.050
0.4683 −0.066
0.4701 −0.080
0.4709 −0.109
0.4730 −0.151
0.4737 −0.167
0.4756 −0.190
0.4765 −0.207
0.4790 −0.265
0.4799 −0.279
0.4819 −0.306
0.4827 −0.324
0.4848 −0.351
0.4856 −0.357
0.4875 −0.392
0.4886 −0.402
0.4911 −0.452
0.4924 −0.473
0.4952 −0.489
0.4962 −0.495
0.4987 −0.517
0.4999 −0.522
0.5027 −0.534
0.5042 −0.524
0.5071 −0.540
0.5086 −0.544
0.5115 −0.547
0.5127 −0.542
0.5164 −0.547
0.5179 −0.554
0.5205 −0.554
0.5219 −0.551
0.5248 −0.541
0.5290 −0.546
0.5303 −0.552
0.5334 −0.542
0.5348 −0.537
0.5377 −0.536
0.5393 −0.537

0.5418 −0.513
0.5432 −0.509
0.5462 −0.510
0.5477 −0.501
0.5510 −0.481
0.5522 −0.484

2444013 +
0.4257 +0.003
0.4271 +0.008
0.4292 −0.003
0.4306 −0.012
0.4327 −0.033
0.4340 −0.039
0.4361 −0.056
0.4368 −0.061
0.4389 −0.073
0.4403 −0.098
0.4424 −0.146
0.4431 −0.155
0.4452 −0.178
0.4462 −0.203
0.4486 −0.234
0.4497 −0.242
0.4521 −0.297
0.4535 −0.303
0.4552 −0.323
0.4559 −0.351
0.4580 −0.381
0.4590 −0.395
0.4646 −0.447
0.4656 −0.456
0.4681 −0.456
0.4688 −0.461
0.4708 −0.460
0.4719 −0.461
0.4740 −0.455
0.4750 −0.467
0.4774 −0.460
0.4785 −0.456
0.4813 −0.482
0.4823 −0.493

2444018 +
0.5230 +0.071
0.5241 +0.072
0.5264 +0.071
0.5274 +0.069
0.5297 +0.064
0.5309 +0.059
0.5332 +0.057
0.5344 +0.061
0.5368 +0.048
0.5379 +0.028
0.5403 −0.004
0.5415 −0.001
0.5437 −0.023
0.5448 −0.020
0.5476 −0.046
0.5489 −0.074
0.5499 −0.080
0.5522 −0.102

0.5535 −0.099
0.5557 −0.119
0.5569 −0.132
0.5597 −0.175
0.5610 −0.190

2444025 +
0.3720 −0.077
0.3734 −0.095
0.3757 −0.119
0.3768 −0.147
0.3788 −0.158
0.3798 −0.173
0.3818 −0.215
0.3827 −0.226
0.3847 −0.256
0.3857 −0.268
0.3877 −0.289
0.3886 −0.303
0.3907 −0.344
0.3918 −0.353
0.3938 −0.368
0.3948 −0.391
0.3969 −0.414
0.3985 −0.441
0.3998 −0.462
0.4008 −0.483
0.4027 −0.509
0.4036 −0.535
0.4055 −0.556
0.4064 −0.575
0.4084 −0.589
0.4093 −0.607
0.4113 −0.630
0.4122 −0.634
0.4141 −0.645
0.4150 −0.660
0.4167 −0.669
0.4175 −0.693
0.4193 −0.722
0.4201 −0.730
0.4222 −0.759
0.4232 −0.753
0.4250 −0.769
0.4258 −0.773
0.4277 −0.774
0.4287 −0.770
0.4307 −0.786
0.4316 −0.787
0.4335 −0.789
0.4345 −0.793
0.4363 −0.785
0.4372 −0.784
0.4391 −0.786
0.4400 −0.787
0.4420 −0.792
0.4430 −0.792
0.4448 −0.785
0.4457 −0.785
0.4476 −0.773
0.4505 −0.775
0.4513 −0.778

0.4531 −0.767
0.4541 −0.749
0.4559 −0.741
0.4568 −0.739
0.4586 −0.726
0.4594 −0.722
0.4613 −0.713
0.4623 −0.711
0.4641 −0.710
0.4650 −0.700
0.4668 −0.676
0.4677 −0.678

2444051 +
0.4657 −0.463
0.4670 −0.477
0.4691 −0.488
0.4705 −0.489
0.4726 −0.501
0.4740 −0.497
0.4761 −0.488
0.4775 −0.493
0.4795 −0.489
0.4809 −0.501
0.4830 −0.484
0.4844 −0.483
0.4865 −0.497
0.4879 −0.499
0.4907 −0.493
0.4920 −0.497
0.4941 −0.481
0.4955 −0.485
0.4976 −0.481
0.4990 −0.479
0.5025 −0.489
0.5045 −0.482
0.5059 −0.487
0.5080 −0.482
0.5094 −0.483

2444060 +
0.4696 +0.096
0.4737 +0.095
0.4752 +0.084
0.4792 +0.097
0.4815 +0.091
0.4859 +0.086
0.4877 +0.085
0.4923 +0.086
0.4946 +0.071
0.4991 +0.039
0.5008 +0.028
0.5046 −0.008
0.5064 −0.025
0.5108 −0.077
0.5123 −0.092
0.5162 −0.123
0.5186 −0.138
0.5228 −0.159
0.5251 −0.179
0.5297 −0.228
0.5311 −0.249

2444089 +
0.3964 −0.051
0.3978 −0.064
0.4006 −0.085
0.4018 −0.097
0.4042 −0.140
0.4071 −0.222
0.4100 −0.253
0.4127 −0.306
0.4153 −0.367
0.4178 −0.412
0.4204 −0.430
0.4232 −0.441
0.4260 −0.469
0.4285 −0.478
0.4308 −0.489
0.4333 −0.503
0.4357 −0.513
0.4379 −0.521
0.4401 −0.520
0.4425 −0.519
0.4447 −0.523
0.4473 −0.519
0.4497 −0.519
0.4520 −0.513
0.4545 −0.514
0.4570 −0.517
0.4595 −0.507
0.4628 −0.508
0.4653 −0.495
0.4679 −0.501
0.4704 −0.503
0.4729 −0.504
0.4756 −0.494

2444102 +
0.4518 +0.031
0.4527 +0.026
0.4551 +0.005
0.4560 +0.009
0.4599 −0.028
0.4659 −0.115
0.4670 −0.141
0.4690 −0.162
0.4700 −0.171
0.4729 −0.193
0.4739 −0.204
0.4770 −0.239
0.4790 −0.256
0.4847 −0.346
0.4880 −0.384
0.4897 −0.410
0.4925 −0.441
0.4934 −0.474
0.4968 −0.532
0.4980 −0.560
0.5009 −0.583
0.5024 −0.602
0.5055 −0.652
0.5074 −0.682
0.5103 −0.725

0.5119 −0.736
0.5151 −0.764
0.5163 −0.777
0.5194 −0.791
0.5206 −0.797
0.5237 −0.812
0.5248 −0.808
0.5288 −0.808
0.5303 −0.802
0.5329 −0.809
0.5343 −0.800
0.5377 −0.788
0.5391 −0.783
0.5419 −0.764
0.5432 −0.739
0.5459 −0.713
0.5471 −0.719

2444111 +
0.5107 +0.058
0.5115 +0.044
0.5136 +0.038
0.5144 +0.033
0.5163 +0.020
0.5174 +0.015
0.5195 −0.009
0.5204 −0.009
0.5224 −0.018
0.5234 −0.031
0.5257 −0.070
0.5273 −0.082
0.5312 −0.146
0.5324 −0.167
0.5351 −0.210
0.5364 −0.242
0.5391 −0.271
0.5404 −0.299
0.5449 −0.399
0.5463 −0.424
0.5493 −0.482
0.5505 −0.521
0.5539 −0.562
0.5550 −0.588

2444132 +
0.4698 +0.048
0.4708 +0.052
0.4727 +0.048
0.4736 +0.039
0.4754 +0.029
0.4765 +0.018
0.4786 −0.004
0.4797 −0.010
0.4822 −0.045
0.4834 −0.061
0.4859 −0.096
0.4870 −0.101
0.4900 −0.147
0.4967 −0.243
0.4997 −0.279
0.5015 −0.287
0.5050 −0.310

0.5061 −0.322
0.5091 −0.333
0.5101 −0.347
0.5133 −0.345

2444136 +
0.4205 +0.086
0.4214 +0.091
0.4234 +0.093
0.4243 +0.093
0.4263 +0.090
0.4272 +0.090
0.4291 +0.099
0.4300 +0.108
0.4325 +0.098
0.4335 +0.106
0.4389 +0.087
0.4399 +0.087
0.4417 +0.081
0.4444 +0.062
0.4452 +0.055
0.4470 +0.047
0.4478 +0.047
0.4496 +0.037
0.4505 +0.039
0.4526 +0.013
0.4535 +0.013
0.4553 −0.014
0.4565 −0.018
0.4584 −0.030
0.4592 −0.032
0.4609 −0.063
0.4618 −0.069
0.4637 −0.086
0.4647 −0.093
0.4667 −0.110
0.4674 −0.127
0.4695 −0.130
0.4702 −0.148
0.4724 −0.170
0.4736 −0.190
0.4750 −0.219
0.4757 −0.231
0.4776 −0.254
0.4785 −0.261
0.4805 −0.273
0.4814 −0.275
0.4831 −0.273
0.4839 −0.282
0.4859 −0.289
0.4868 −0.301
0.4887 −0.312
0.4914 −0.335
0.4924 −0.361
0.4941 −0.364
0.4952 −0.367
0.4969 −0.371
0.4978 −0.378
0.4997 −0.385
0.5007 −0.380
0.5025 −0.390
0.5035 −0.395

0.5053 −0.397
0.5062 −0.402
0.5091 −0.419
0.5114 −0.435
0.5122 −0.435
0.5143 −0.443
0.5150 −0.455
0.5169 −0.475
0.5178 −0.490

2444143 +
0.2626 +0.072
0.2633 +0.081
0.2651 +0.091
0.2658 +0.081
0.2677 +0.062
0.2687 +0.054
0.2705 +0.048
0.2713 +0.034
0.2732 +0.005
0.2741 +0.003
0.2762 −0.033
0.2769 −0.032
0.2788 −0.039
0.2797 −0.057
0.2816 −0.070
0.2825 −0.091
0.2845 −0.120
0.2854 −0.133
0.2876 −0.171
0.2884 −0.199
0.2903 −0.231
0.2911 −0.242
0.2931 −0.275
0.2939 −0.303
0.2958 −0.329
0.2966 −0.348
0.2985 −0.379
0.2994 −0.385
0.3013 −0.398
0.3021 −0.413
0.3043 −0.447
0.3053 −0.471
0.3079 −0.515
0.3089 −0.523
0.3113 −0.553
0.3122 −0.580
0.3143 −0.609
0.3153 −0.612
0.3172 −0.625
0.3181 −0.643
0.3199 −0.659
0.3209 −0.690
0.3232 −0.698
0.3240 −0.706
0.3257 −0.721
0.3265 −0.739
0.3285 −0.752
0.3293 −0.764
0.3311 −0.793
0.3321 −0.796
0.3341 −0.801

0.3349 −0.819
0.3367 −0.822
0.3376 −0.823
0.3395 −0.811
0.3404 −0.820
0.3423 −0.816
0.3432 −0.815
0.3450 −0.814
0.3459 −0.812
0.3477 −0.805
0.3485 −0.805
0.3505 −0.800
0.3514 −0.791

2444147 +
0.2550 −0.193
0.2557 −0.206
0.2575 −0.236
0.2583 −0.255
0.2601 −0.296
0.2609 −0.317
0.2629 −0.347
0.2638 −0.367
0.2657 −0.400
0.2667 −0.434
0.2686 −0.483
0.2694 −0.505
0.2714 −0.543
0.2722 −0.552
0.2747 −0.602
0.2756 −0.611
0.2774 −0.656
0.2783 −0.672
0.2803 −0.680
0.2813 −0.696
0.2833 −0.714
0.2841 −0.729
0.2863 −0.776
0.2874 −0.788
0.2904 −0.823
0.2924 −0.839
0.2923 −0.848
0.2951 −0.853
0.2961 −0.850
0.2982 −0.865
0.2991 −0.862
0.3014 −0.875
0.3024 −0.870
0.3043 −0.875
0.3053 −0.861
0.3072 −0.860
0.3080 −0.851
0.3099 −0.848
0.3107 −0.841

2444156 +
0.3293 −0.575
0.3309 −0.584
0.3344 −0.618
0.3360 −0.632
0.3386 −0.646
0.3402 −0.656

0.3435 −0.689
0.3489 −0.709
0.3504 −0.706
0.3560 −0.697
0.3600 −0.694
0.3615 −0.688
0.3647 −0.683
0.3666 −0.680
0.3704 −0.671
0.3723 −0.657
0.3765 −0.632
0.3781 −0.629
0.3839 −0.590
0.3870 −0.595
0.3891 −0.582
0.3933 −0.545
0.3954 −0.540
0.3995 −0.520
0.4012 −0.513

2444157 +
0.4200 −0.051
0.4210 −0.065
0.4247 −0.100
0.4258 −0.121
0.4285 −0.146
0.4294 −0.151
0.4334 −0.221
0.4346 −0.235
0.4378 −0.305
0.4390 −0.316
0.4425 −0.383
0.4441 −0.385
0.4473 −0.441
0.4482 −0.444

2444160 +
0.2836 −0.488
0.2871 −0.528
0.2879 −0.524
0.2904 −0.555
0.2913 −0.565
0.2937 −0.593
0.2944 −0.593
0.2969 −0.609
0.2979 −0.616
0.3000 −0.636
0.3008 −0.645
0.3040 −0.663
0.3062 −0.677
0.3070 −0.674

2444215 +
0.2479 +0.014
0.2487 +0.007
0.2512 −0.014
0.2522 −0.027
0.2544 −0.050
0.2557 −0.053
0.2591 −0.074
0.2618 −0.077
0.2627 −0.083

0.2657 −0.102
0.2666 −0.110
0.2692 −0.131
0.2703 −0.141
0.2790 −0.197
0.2800 −0.206
0.2828 −0.214
0.2837 −0.222
0.2872 −0.239
0.2881 −0.250

2444402 +
0.3661 −0.579
0.3669 −0.572
0.3692 −0.571
0.3700 −0.569
0.3723 −0.570
0.3733 −0.572
0.3764 −0.564
0.3787 −0.551
0.3819 −0.546
0.3888 −0.531
0.3905 −0.530
0.3915 −0.529
0.3939 −0.522
0.3949 −0.525
0.3974 −0.526
0.3983 −0.518
0.4008 −0.512
0.4018 −0.508
0.4039 −0.483
0.4049 −0.483

2444407 +
0.4444 −0.401
0.4457 −0.408
0.4491 −0.431
0.4505 −0.428
0.4538 −0.429
0.4550 −0.431
0.4580 −0.435
0.4595 −0.439
0.4633 −0.440
0.4646 −0.441
0.4681 −0.434
0.4697 −0.433
0.4729 −0.438
0.4741 −0.441
0.4775 −0.449
0.4790 −0.442
0.4826 −0.469
0.4840 −0.471
0.4872 −0.471
0.4887 −0.478
0.4923 −0.480
0.4945 −0.485
0.4981 −0.499
0.4995 −0.502
0.5033 −0.514
0.5047 −0.526
0.5094 −0.528
0.5109 −0.524

0.5141 −0.521
0.5153 −0.519
0.5190 −0.514
0.5205 −0.514
0.5240 −0.504
0.5254 −0.505
0.5286 −0.506
0.5302 −0.504
0.5342 −0.491
0.5355 −0.488

2444453 +
0.3264 +0.044
0.3276 +0.046
0.3303 +0.037
0.3314 +0.024
0.3344 +0.015
0.3354 +0.010
0.3377 −0.006
0.3387 −0.015
0.3409 −0.022
0.3419 −0.014
0.3499 −0.082
0.3509 −0.100
0.3545 −0.125
0.3568 −0.154
0.3577 −0.172
0.3599 −0.192
0.3609 −0.200
0.3631 −0.211
0.3640 −0.213
0.3664 −0.244
0.3673 −0.241
0.3698 −0.279
0.3706 −0.285
0.3729 −0.307
0.3738 −0.317
0.3763 −0.328
0.3771 −0.337
0.3795 −0.330
0.3807 −0.329
0.3892 −0.361
0.3899 −0.375
0.3938 −0.428
0.3946 −0.428
0.3969 −0.462
0.3976 −0.477
0.3998 −0.508
0.4009 −0.520
0.4033 −0.553
0.4042 −0.563
0.4063 −0.579
0.4074 −0.600
0.4163 −0.706
0.4172 −0.695
0.4193 −0.705
0.4203 −0.718

2444487 +
0.3443 −0.091
0.3455 −0.102
0.3491 −0.144
0.3523 −0.165
0.3558 −0.200
0.3572 −0.228
0.3789 −0.383
0.3802 −0.387
0.3833 −0.407
0.3845 −0.409
0.3880 −0.426
0.3893 −0.432
0.3928 −0.453
0.3944 −0.460
0.3978 −0.461
0.3993 −0.462
0.4029 −0.474
0.4042 −0.476
0.4073 −0.492
0.4086 −0.497
0.4117 −0.512
0.4131 −0.516
0.4167 −0.528
0.4179 −0.535
0.4213 −0.548
0.4226 −0.551
0.4258 −0.550
0.4272 −0.553
0.4303 −0.551
0.4315 −0.552
0.4360 −0.549
0.4375 −0.548
0.4410 −0.539
0.4423 −0.535
0.4456 −0.533
0.4471 −0.535
0.4510 −0.533
0.4521 −0.531

2444495 +
0.2862 −0.026
0.2871 −0.043
0.2895 −0.053
0.2905 −0.060
0.2923 −0.081
0.2933 −0.090
0.2963 −0.116
0.2974 −0.121
0.3016 −0.147
0.3027 −0.158
0.3047 −0.182
0.3056 −0.201
0.3077 −0.226
0.3085 −0.239
0.3105 −0.259
0.3114 −0.267
0.3135 −0.287
0.3145 −0.302
0.3167 −0.321
0.3175 −0.333
0.3257 −0.428
0.3266 −0.438
0.3287 −0.458
0.3296 −0.464
0.3315 −0.480
0.3325 −0.502
0.3347 −0.515
0.3354 −0.532
0.3432 −0.616
0.3440 −0.623
0.3492 −0.650
0.3502 −0.659
0.3521 −0.684
0.3530 −0.690
0.3548 −0.694
0.3556 −0.691
0.3576 −0.693
0.3584 −0.690
0.3606 −0.698
0.3614 −0.698
0.3631 −0.699
0.3641 −0.699
0.3660 −0.696
0.3669 −0.696
0.3694 −0.696
0.3701 −0.689
0.3721 −0.692
0.3768 −0.691
0.3777 −0.689
0.3796 −0.685
0.3805 −0.685

2444784 +
0.4128 −0.555
0.4146 −0.572
0.4182 −0.583
0.4204 −0.585
0.4239 −0.586
0.4253 −0.588
0.4293 −0.590
0.4307 −0.594
0.4347 −0.595
0.4361 −0.589
0.4434 −0.588
0.4447 −0.590
0.4483 −0.584
0.4500 −0.580
0.4538 −0.570
0.4555 −0.564
0.4605 −0.556
0.4635 −0.542
0.4650 −0.535
0.4766 −0.495
0.4782 −0.487
0.4812 −0.482
0.4831 −0.477

2444788 +
0.3607 −0.387
0.3616 −0.392
0.3639 −0.397
0.3647 −0.402
0.3686 −0.416
0.3695 −0.427
0.3718 −0.442
0.3727 −0.440
0.3749 −0.471
0.3757 −0.467
0.3778 −0.481
0.3786 −0.479
0.3805 −0.482
0.3812 −0.482
0.3835 −0.493
0.3843 −0.494
0.3866 −0.500
0.3875 −0.496
0.3899 −0.499
0.3910 −0.501
0.3934 −0.502
0.3943 −0.508
0.3974 −0.510
0.3982 −0.516
0.4005 −0.507
0.4015 −0.517
0.4042 −0.525
0.4050 −0.523
0.4072 −0.527
0.4080 −0.529
0.4102 −0.531
0.4110 −0.542
0.4134 −0.542
0.4139 −0.536
0.4160 −0.536
0.4168 −0.536
0.4191 −0.528
0.4208 −0.534
0.4233 −0.539
0.4240 −0.528

2444797 +
0.4293 −0.188
0.4304 −0.198
0.4337 −0.226
0.4351 −0.229
0.4386 −0.274
0.4401 −0.288
0.4441 −0.331
0.4455 −0.346
0.4496 −0.382
0.4513 −0.388
0.4553 −0.417
0.4569 −0.426
0.4604 −0.476
0.4619 −0.489
0.4697 −0.582
0.4713 −0.593
0.4753 −0.615
0.4767 −0.623
0.4807 −0.659
0.4820 −0.661
0.4863 −0.676
0.4873 −0.673
0.4919 −0.681
0.4936 −0.687
0.4996 −0.679
0.5012 −0.685
0.5052 −0.678
0.5066 −0.677
0.5105 −0.665
0.5133 −0.655
0.5198 −0.637
0.5211 −0.626

2444805 +
0.3611 −0.058
0.3620 −0.073
0.3642 −0.093
0.3650 −0.098
0.3673 −0.116
0.3683 −0.127
0.3705 −0.152
0.3714 −0.164
0.3741 −0.201
0.3750 −0.216
0.3772 −0.250
0.3781 −0.275
0.3802 −0.306
0.3811 −0.306
0.3830 −0.325
0.3839 −0.357
0.3860 −0.409
0.3869 −0.433
0.3893 −0.528
0.3903 −0.556

2444819 +
0.4035 −0.045
0.4044 −0.044
0.4084 −0.040
0.4094 −0.039
0.4125 −0.036
0.4139 −0.038
0.4170 −0.034
0.4184 −0.032
0.4235 −0.030
0.4247 −0.022
0.4278 −0.011
0.4294 −0.020
0.4327 −0.020
0.4344 −0.012
0.4390 −0.013
0.4405 −0.013
0.4445 −0.002
0.4464 −0.002
0.4504 +0.010
0.4521 +0.007
0.4563 +0.020
0.4576 +0.026
0.4698 +0.049
0.4713 +0.060
0.4755 +0.055
0.4769 +0.058
0.4808 +0.055
0.4820 +0.055
0.4861 +0.054
0.4872 +0.062

2444822 +
0.3620 −0.312
0.3629 −0.318
0.3685 −0.415

0.3695 −0.418	0.3957 −0.608	0.4224 −0.591	2444855 +	0.3024 −0.670
0.3725 −0.470	0.3986 −0.611		0.2859 −0.689	
0.3733 −0.476	0.3995 −0.619	2444847 +	0.2866 −0.685	2444874 +
0.3757 −0.493	0.4024 −0.617	0.3480 −0.708	0.2882 −0.688	0.4106 +0.077
0.3765 −0.510	0.4033 −0.619	0.3496 −0.712	0.2890 −0.691	0.4115 +0.059
0.3792 −0.523	0.4059 −0.614	0.3538 −0.740	0.2906 −0.686	0.4145 +0.060
0.3801 −0.531	0.4068 −0.608	0.3552 −0.750	0.2914 −0.694	0.4184 +0.055
0.3830 −0.547	0.4096 −0.612	0.3591 −0.768	0.2932 −0.681	0.4214 +0.051
0.3839 −0.558	0.4106 −0.606	0.3614 −0.769	0.2939 −0.695	0.4222 +0.056
0.3867 −0.573	0.4136 −0.607	0.3783 −0.757	0.2956 −0.680	0.4291 +0.050
0.3877 −0.585	0.4147 −0.604	0.3797 −0.749	0.2965 −0.676	0.4300 +0.040
0.3909 −0.600	0.4175 −0.595	0.3833 −0.736	0.2985 −0.671	0.4331 +0.035
0.3918 −0.600	0.4183 −0.595	0.3850 −0.728	0.2994 −0.675	
0.3947 −0.608	0.4216 −0.588		0.3014 −0.673	

Table 4: Photoelectric B observations

2436411 +	0.4482 +0.158	0.5508 −0.717	2436456 +	0.3518 −0.718
0.5245 −0.469	0.4503 +0.148	0.5526 −0.709	0.2735 +0.076	0.3545 −0.703
0.5263 −0.491	0.4524 +0.130	0.5545 −0.700	0.2753 +0.067	0.3558 −0.704
0.5300 −0.524	0.4566 +0.113	0.5582 −0.677	0.2771 +0.059	0.3571 −0.696
0.5321 −0.544	0.4586 +0.101	0.5600 −0.659	0.2802 +0.008	0.3601 −0.698
0.5334 −0.563	0.4607 +0.080	0.5619 −0.643	0.2817 +0.005	
0.5350 −0.590	0.4628 +0.047		0.2831 −0.021	2436473 +
0.5368 −0.622	0.4649 +0.025	2436444 +	0.2865 −0.068	0.3138 −0.285
0.5400 −0.663	0.4690 −0.024	0.3238 +0.157	0.2879 −0.111	0.3181 −0.340
0.5417 −0.684	0.4704 −0.066	0.3268 +0.156	0.2890 −0.134	0.3203 −0.407
0.5431 −0.704	0.4718 −0.096	0.3293 +0.180	0.2918 −0.192	0.3264 −0.481
0.5448 −0.726	0.4732 −0.128	0.3348 +0.155	0.2931 −0.214	
0.5463 −0.728	0.4746 −0.150	0.3375 +0.176	0.2943 −0.244	2436480 +
0.5506 −0.745	0.4784 −0.226	0.3400 +0.157	0.2971 −0.282	0.2368 −0.482
0.5530 −0.736	0.4799 −0.271	0.3455 +0.153	0.2983 −0.332	0.2386 −0.479
0.5547 −0.727	0.4819 −0.324	0.3483 +0.169	0.2995 −0.343	0.2401 −0.484
0.5563 −0.727	0.4839 −0.359	0.3514 +0.164	0.3025 −0.390	0.2459 −0.451
0.5600 −0.717	0.4855 −0.398	0.3583 +0.158	0.3036 −0.421	0.2488 −0.442
	0.4892 −0.442	0.3624 +0.142	0.3049 −0.436	0.2500 −0.450
2436415 +	0.4908 −0.471	0.3651 +0.130	0.3075 −0.453	0.2537 −0.416
0.3819 +0.076	0.4924 −0.474	0.3760 +0.084	0.3087 −0.478	0.2550 −0.420
0.3843 +0.079	0.4943 −0.484	0.3795 +0.054	0.3099 −0.486	0.2562 −0.412
0.3864 +0.079	0.4961 −0.510	0.3857 −0.058	0.3126 −0.506	0.2596 −0.398
0.3885 +0.088	0.5001 −0.543	0.3923 −0.190	0.3139 −0.517	0.2608 −0.404
0.3927 +0.120	0.5020 −0.559	0.3954 −0.264	0.3151 −0.523	0.2619 −0.403
0.3948 +0.124	0.5038 −0.596	0.3982 −0.306	0.3177 −0.555	0.2651 −0.399
0.3968 +0.117	0.5057 −0.620	0.4066 −0.425	0.3190 −0.564	0.2663 −0.395
0.3989 +0.128	0.5075 −0.640	0.4087 −0.469	0.3202 −0.570	0.2676 −0.396
0.4010 +0.146	0.5112 −0.674	0.4134 −0.508	0.3229 −0.602	0.2712 −0.367
0.4080 +0.162	0.5131 −0.665	0.4155 −0.550	0.3242 −0.606	0.2726 −0.359
0.4100 +0.142	0.5149 −0.691	0.4176 −0.583	0.3253 −0.629	0.2740 −0.356
0.4121 +0.141	0.5170 −0.695	0.4224 −0.656	0.3279 −0.644	0.2776 −0.339
0.4142 +0.126	0.5191 −0.693	0.4245 −0.687	0.3292 −0.637	0.2792 −0.326
0.4184 +0.130	0.5235 −0.730	0.4266 −0.705	0.3304 −0.664	0.2805 −0.334
0.4205 +0.124	0.5253 −0.742	0.4308 −0.753	0.3331 −0.658	0.2843 −0.323
0.4225 +0.133	0.5272 −0.732	0.4329 −0.771	0.3344 −0.666	0.2859 −0.315
0.4246 +0.139	0.5290 −0.743	0.4349 −0.800	0.3359 −0.676	0.2874 −0.324
0.4267 +0.144	0.5309 −0.760	0.4391 −0.800	0.3389 −0.684	0.2912 −0.301
0.4309 +0.150	0.5348 −0.770	0.4412 −0.807	0.3401 −0.696	0.2926 −0.297
0.4330 +0.147	0.5367 −0.786	0.4440 −0.828	0.3414 −0.697	0.2974 −0.288
0.4350 +0.159	0.5385 −0.781	0.4496 −0.836	0.3442 −0.708	0.2989 −0.297
0.4371 +0.166	0.5406 −0.767	0.4521 −0.830	0.3456 −0.713	0.3002 −0.285
0.4392 +0.155	0.5427 −0.747	0.4544 −0.831	0.3468 −0.715	0.3035 −0.263
0.4441 +0.160	0.5468 −0.730	0.4572 −0.816	0.3494 −0.712	0.3051 −0.257
0.4461 +0.159	0.5489 −0.723		0.3506 −0.705	

2436486 +
0.3257 +0.024
0.3276 +0.001
0.3312 −0.067
0.3325 −0.072
0.3336 −0.095
0.3347 −0.147
0.3379 −0.192
0.3390 −0.227
0.3402 −0.242
0.3414 −0.259

2436503 +
0.2851 +0.190
0.2870 +0.195
0.2885 +0.185
0.2928 +0.176
0.2965 +0.164
0.3005 +0.174
0.3026 +0.185
0.3045 +0.188
0.3085 +0.199
0.3125 +0.176
0.3157 +0.160
0.3171 +0.138
0.3183 +0.139
0.3213 +0.118
0.3227 +0.105
0.3238 +0.089
0.3270 +0.083
0.3283 +0.073
0.3295 +0.068
0.3324 +0.032
0.3335 +0.016
0.3349 −0.019
0.3376 −0.061
0.3390 −0.074
0.3401 −0.081
0.3427 −0.133
0.3441 −0.185
0.3452 −0.217
0.3480 −0.278
0.3493 −0.305
0.3507 −0.327
0.3537 −0.362
0.3551 −0.395
0.3565 −0.408
0.3599 −0.434
0.3613 −0.448
0.3627 −0.466
0.3654 −0.493
0.3674 −0.533
0.3710 −0.565
0.3729 −0.564
0.3743 −0.585
0.3773 −0.627
0.3787 −0.651
0.3801 −0.654
0.3834 −0.682
0.3855 −0.703
0.3909 −0.744
0.3927 −0.741

2436653 +
0.5787 −0.326
0.5806 −0.375
0.5881 −0.484
0.5901 −0.504
0.5923 −0.537
0.5944 −0.546
0.6000 −0.590
0.6019 −0.617
0.6037 −0.612
0.6082 −0.655
0.6115 −0.670
0.6183 −0.714
0.6203 −0.724

2436674 +
0.4433 +0.110
0.4481 +0.103
0.4502 +0.099
0.4544 +0.099
0.4565 +0.099
0.4586 +0.087
0.4631 +0.098
0.4641 +0.100
0.4652 +0.103
0.4672 +0.104
0.4718 +0.114
0.4738 +0.119
0.4759 +0.125
0.4801 +0.122
0.4822 +0.124
0.4843 +0.120
0.4884 +0.118
0.4905 +0.128
0.4926 +0.138
0.4968 +0.141
0.4988 +0.125
0.5009 +0.132
0.5058 +0.139
0.5113 +0.091
0.5134 +0.085
0.5169 +0.034
0.5184 +0.026
0.5198 +0.010
0.5228 −0.035
0.5244 −0.052
0.5258 −0.085
0.5291 −0.163
0.5307 −0.184
0.5321 −0.180
0.5355 −0.273
0.5369 −0.283
0.5383 −0.307
0.5432 −0.393
0.5446 −0.414
0.5494 −0.495
0.5515 −0.524
0.5543 −0.589
0.5559 −0.595
0.5578 −0.623
0.5612 −0.649
0.5626 −0.663
0.5640 −0.676
0.5675 −0.726
0.5680 −0.730
0.5703 −0.747
0.5737 −0.794
0.5758 −0.809
0.5802 −0.804
0.5816 −0.816
0.5844 −0.814
0.5869 −0.819
0.5883 −0.804
0.5911 −0.791
0.5925 −0.777
0.5939 −0.769
0.5969 −0.749
0.5983 −0.744

2436695 +
0.5250 −0.318
0.5301 −0.351
0.5321 −0.384
0.5382 −0.428
0.5400 −0.455
0.5456 −0.509
0.5472 −0.520
0.5537 −0.599
0.5629 −0.671
0.5648 −0.691
0.5666 −0.710
0.5715 −0.762

2436741 +
0.4058 +0.165
0.4097 +0.152
0.4111 +0.139
0.4124 +0.127
0.4136 +0.117
0.4167 +0.092
0.4185 +0.053
0.4201 +0.056
0.4215 +0.035
0.4257 −0.017
0.4271 −0.040
0.4285 −0.057
0.4333 −0.143
0.4347 −0.168
0.4361 −0.209
0.4375 −0.238
0.4410 −0.286
0.4424 −0.320
0.4438 −0.344
0.4451 −0.364
0.4500 −0.423
0.4514 −0.451
0.4528 −0.475
0.4542 −0.488
0.4580 −0.571
0.4597 −0.598
0.4611 −0.617
0.4625 −0.644
0.4663 −0.685
0.4677 −0.719
0.4689 −0.738
0.4701 −0.753
0.4736 −0.788
0.4756 −0.806
0.4771 −0.819
0.4785 −0.828
0.4821 −0.849
0.4841 −0.853
0.4855 −0.865
0.4869 −0.870
0.4907 −0.879
0.4925 −0.876
0.4939 −0.869
0.4966 −0.858
0.5039 −0.846
0.5074 −0.819
0.5088 −0.815
0.5102 −0.804
0.5154 −0.763
0.5168 −0.740
0.5182 −0.745
0.5196 −0.719

2436771 +
0.4960 −0.424
0.5002 −0.442
0.5023 −0.460
0.5064 −0.471
0.5085 −0.485
0.5106 −0.512
0.5307 −0.600
0.5349 −0.600
0.5370 −0.611
0.5391 −0.610

2436779 +
0.4421 −0.627
0.4435 −0.659
0.4469 −0.711
0.4497 −0.721
0.4546 −0.811
0.4560 −0.821
0.4574 −0.819
0.4608 −0.855
0.4622 −0.833
0.4636 −0.838
0.4676 −0.858
0.4699 −0.869
0.4719 −0.866

2436788 +
0.4636 +0.027
0.4650 −0.008
0.4691 −0.083
0.4702 −0.104
0.4714 −0.117
0.4746 −0.167
0.4758 −0.189
0.4771 −0.205
0.4806 −0.259
0.4819 −0.299
0.4833 −0.321
0.4876 −0.394
0.4891 −0.446
0.4919 −0.499
0.4981 −0.615
0.5002 −0.659
0.5025 −0.699
0.5083 −0.782
0.5102 −0.800
0.5148 −0.873
0.5197 −0.894
0.5215 −0.907
0.5236 −0.919
0.5289 −0.908
0.5310 −0.905
0.5328 −0.889
0.5379 −0.890
0.5400 −0.858
0.5423 −0.861
0.5474 −0.828
0.5497 −0.818
0.5514 −0.790

2436800 +
0.3740 −0.335
0.3754 −0.336
0.3777 −0.356
0.3810 −0.453
0.3824 −0.483
0.3838 −0.485
0.3877 −0.545
0.3891 −0.576
0.3905 −0.575
0.4058 −0.646
0.4071 −0.659
0.4102 −0.660
0.4115 −0.669
0.4129 −0.667
0.4159 −0.667
0.4173 −0.671
0.4227 −0.666
0.4240 −0.673
0.4254 −0.664
0.4284 −0.646
0.4298 −0.641
0.4312 −0.630
0.4340 −0.631
0.4354 −0.644
0.4368 −0.637
0.4400 −0.621
0.4423 −0.603
0.4442 −0.591
0.4481 −0.592
0.4497 −0.585
0.4511 −0.565
0.4539 −0.576
0.4553 −0.572

2436804 +
0.3711 −0.557
0.3724 −0.562
0.3752 −0.563

0.3763 −0.561
0.3776 −0.567
0.3787 −0.567
0.3814 −0.571
0.3825 −0.574
0.3838 −0.571
0.3848 −0.568
0.3872 −0.569
0.3883 −0.567
0.3902 −0.567
0.3913 −0.549
0.3939 −0.548
0.3952 −0.562
0.3962 −0.565
0.3973 −0.560
0.3998 −0.566
0.4050 −0.554
0.4066 −0.551

2436825 +
0.3224 −0.067
0.3234 −0.091
0.3257 −0.117
0.3270 −0.148
0.3330 −0.293
0.3341 −0.324
0.3351 −0.322
0.3369 −0.361
0.3380 −0.412
0.3390 −0.436
0.3409 −0.471
0.3419 −0.494
0.3426 −0.468
0.3444 −0.561
0.3454 −0.575
0.3463 −0.599
0.3479 −0.637
0.3522 −0.726
0.3530 −0.761
0.3546 −0.802
0.3565 −0.829
0.3585 −0.845
0.3602 −0.868
0.3631 −0.918
0.3641 −0.930
0.3650 −0.931
0.3669 −0.960
0.3687 −0.963
0.3697 −0.959
0.3718 −0.968
0.3729 −0.964
0.3738 −0.965
0.3758 −0.970
0.3768 −0.967
0.3779 −0.960
0.3796 −0.958

2437147 +
0.3332 −0.510
0.3372 −0.615
0.3392 −0.657
0.3429 −0.767
0.3443 −0.807
0.3457 −0.831
0.3487 −0.887
0.3497 −0.879
0.3540 −0.925
0.3562 −0.955
0.3598 −0.961
0.3659 −0.979
0.3672 −0.984
0.3685 −0.982
0.3719 −0.964
0.3730 −0.963
0.3742 −0.951

2437156 +
0.3775 −0.343
0.3800 −0.387
0.3897 −0.520
0.3946 −0.574
0.4057 −0.721
0.4077 −0.745
0.4130 −0.775
0.4154 −0.784
0.4192 −0.782
0.4268 −0.780
0.4293 −0.765
0.4345 −0.754
0.4369 −0.724
0.4390 −0.731
0.4435 −0.711
0.4477 −0.702
0.4522 −0.680
0.4543 −0.662
0.4564 −0.656

2437160 +
0.3584 −0.603
0.3602 −0.593
0.3619 −0.634
0.3658 −0.667
0.3676 −0.664
0.3690 −0.675
0.3725 −0.660
0.3741 −0.664
0.3757 −0.660
0.3794 −0.691
0.3808 −0.702
0.3825 −0.699
0.3857 −0.679
0.3871 −0.696
0.3887 −0.678
0.3924 −0.693
0.3940 −0.666
0.3998 −0.658
0.4200 −0.574
0.4227 −0.535

2437173 +
0.3840 −0.127
0.3873 −0.200
0.3903 −0.237
0.3972 −0.265
0.4000 −0.293
0.4028 −0.312
0.4125 −0.335
0.4153 −0.339
0.4181 −0.351
0.4257 −0.382
0.4285 −0.383
0.4312 −0.408
0.4403 −0.504
0.4444 −0.521
0.4514 −0.563
0.4542 −0.583
0.4569 −0.590
0.4639 −0.617
0.4667 −0.618
0.4694 −0.604
0.4785 −0.601
0.4889 −0.565
0.4917 −0.543
0.4944 −0.541
0.5000 −0.529
0.5028 −0.515

2437477 +
0.3867 −0.431
0.3881 −0.421
0.3895 −0.398
0.3985 −0.393
0.4012 −0.378
0.4072 −0.356
0.4158 −0.310
0.4180 −0.312
0.4226 −0.291
0.4250 −0.269
0.4266 −0.276
0.4310 −0.246
0.4326 −0.243
0.4344 −0.245
0.4382 −0.244
0.4400 −0.238
0.4462 −0.223
0.4478 −0.215
0.4500 −0.229
0.4541 −0.216
0.4562 −0.203
0.4580 −0.196
0.4632 −0.174
0.4650 −0.171
0.4670 −0.160

2437479 +
0.4877 +0.023
0.4890 −0.014
0.4906 −0.013
0.4943 −0.060
0.4959 −0.120
0.4978 −0.135
0.5033 −0.206
0.5054 −0.265
0.5068 −0.277
0.5095 −0.345
0.5109 −0.391
0.5123 −0.426
0.5151 −0.486
0.5165 −0.486
0.5179 −0.514
0.5207 −0.572
0.5220 −0.577
0.5234 −0.599
0.5276 −0.665
0.5290 −0.678
0.5318 −0.724
0.5346 −0.760
0.5394 −0.789
0.5408 −0.779
0.5454 −0.802
0.5466 −0.797
0.5477 −0.801
0.5501 −0.808
0.5525 −0.810
0.5546 −0.800
0.5558 −0.810
0.5568 −0.797
0.5593 −0.794

2437484 +
0.3966 +0.091
0.3980 +0.097
0.4047 +0.085
0.4061 +0.076

2437487 +
0.4862 −0.633
0.4915 −0.647
0.4929 −0.638
0.5005 −0.607
0.5028 −0.600
0.5052 −0.581
0.5098 −0.596
0.5121 −0.596
0.5137 −0.600
0.5179 −0.578
0.5195 −0.550
0.5211 −0.554
0.5250 −0.531
0.5306 −0.526

2437495 +
0.3800 −0.343
0.3814 −0.351
0.3879 −0.403
0.3893 −0.411
0.3925 −0.429
0.3941 −0.429
0.3997 −0.446
0.4057 −0.449
0.4073 −0.466
0.4089 −0.448
0.4122 −0.476
0.4136 −0.462
0.4150 −0.476
0.4182 −0.490
0.4198 −0.495
0.4219 −0.511
0.4256 −0.502
0.4275 −0.510
0.4291 −0.504
0.4321 −0.493
0.4342 −0.499
0.4356 −0.493
0.4405 −0.505
0.4455 −0.502
0.4474 −0.501
0.4490 −0.495
0.4525 −0.500
0.4545 −0.492

2437776 +
0.4922 +0.071
0.4946 +0.083
0.4974 +0.075
0.4998 +0.091
0.5054 +0.081
0.5078 +0.076
0.5099 +0.065
0.5126 +0.061
0.5241 −0.008
0.5271 −0.036
0.5307 −0.057
0.5342 −0.093
0.5394 −0.132
0.5418 −0.164
0.5445 −0.207
0.5467 −0.241
0.5515 −0.329
0.5536 −0.354
0.5562 −0.378
0.5582 −0.416
0.5633 −0.461
0.5654 −0.486
0.5682 −0.493
0.5703 −0.493
0.5759 −0.502
0.5787 −0.503
0.5815 −0.507
0.5836 −0.507
0.5891 −0.494
0.5918 −0.498
0.5946 −0.488
0.5972 −0.492
0.6032 −0.477

2437780 +
0.4463 +0.131
0.4484 +0.114
0.4499 +0.116
0.4520 +0.135
0.4548 +0.125
0.4604 +0.114
0.4625 +0.122
0.4644 +0.131
0.4666 +0.107
0.4736 +0.094
0.4767 +0.090
0.4861 +0.047
0.4892 +0.039

0.4952 +0.001
0.5002 −0.057
0.5023 −0.063
0.5044 −0.095
0.5099 −0.166
0.5120 −0.190
0.5141 −0.218
0.5162 −0.237
0.5217 −0.308
0.5239 −0.356
0.5260 −0.370
0.5280 −0.386
0.5328 −0.432
0.5349 −0.429
0.5363 −0.437
0.5391 −0.430
0.5729 −0.449
0.5748 −0.458
0.5769 −0.452
0.5791 −0.453
0.5805 −0.457
0.5881 −0.455
0.5929 −0.452
0.5951 −0.442
0.6000 −0.417

2437809 +
0.3745 +0.100
0.3766 +0.080
0.3815 +0.071
0.3836 +0.080
0.3856 +0.091
0.3877 +0.073
0.3898 +0.071
0.3940 +0.064
0.3961 +0.062
0.3981 +0.030
0.4009 +0.015
0.4099 −0.040
0.4120 −0.051

2437835 +
0.5075 +0.134
0.5089 +0.111
0.5110 +0.080
0.5131 +0.088
0.5152 +0.068
0.5217 −0.055
0.5249 −0.124
0.5270 −0.189
0.5332 −0.338
0.5346 −0.383
0.5367 −0.455
0.5388 −0.547
0.5409 −0.602
0.5457 −0.736
0.5478 −0.799
0.5499 −0.831
0.5520 −0.878
0.5610 −0.951
0.5645 −0.971
0.5666 −0.967

2437839 +
0.4408 +0.152
0.4428 +0.143
0.4449 +0.161
0.4498 +0.147
0.4553 +0.160
0.4609 +0.134
0.4630 +0.144
0.4650 +0.129
0.4671 +0.120
0.4741 +0.032
0.4762 +0.012
0.4782 −0.013
0.4831 −0.067
0.4852 −0.122
0.4873 −0.153
0.4894 −0.199
0.4942 −0.365
0.4963 −0.443
0.4984 −0.520
0.5005 −0.580
0.5053 −0.711
0.5074 −0.778
0.5102 −0.829
0.5137 −0.888
0.5206 −0.983
0.5234 −1.009
0.5255 −1.024
0.5276 −1.028
0.5338 −1.006
0.5366 −1.013
0.5387 −0.976
0.5414 −0.967

2437855 +
0.3905 −0.584
0.3933 −0.586
0.3963 −0.564
0.4000 −0.541
0.4016 −0.533
0.4063 −0.520
0.4072 −0.508
0.4118 −0.516
0.4128 −0.513
0.4160 −0.490
0.4176 −0.478
0.4195 −0.486
0.4220 −0.468
0.4257 −0.457
0.4273 −0.465
0.4291 −0.459
0.4313 −0.456
0.4340 −0.450
0.4357 −0.449
0.4405 −0.416
0.4417 −0.410
0.4447 −0.400
0.4463 −0.407
0.4482 −0.412
0.4498 −0.393
0.4526 −0.401
0.4549 −0.395
0.4580 −0.386
0.4609 −0.373

2437856 +
0.4493 −0.011
0.4507 −0.007
0.4530 −0.038
0.4600 −0.112
0.4647 −0.156
0.4707 −0.256
0.4744 −0.299
0.4803 −0.374
0.4819 −0.414

2437872 +
0.3484 +0.140
0.3498 +0.141
0.3561 +0.097
0.3573 +0.072
0.3586 +0.057
0.3616 +0.039
0.3631 +0.030
0.3646 +0.005
0.3678 −0.030
0.3699 −0.053
0.3722 −0.074
0.3758 −0.115
0.3772 −0.132
0.3790 −0.159
0.3820 −0.206
0.3835 −0.240
0.3852 −0.272
0.3889 −0.372
0.3906 −0.414
0.3921 −0.437
0.3962 −0.531
0.3979 −0.564
0.3996 −0.590
0.4036 −0.677
0.4060 −0.724
0.4095 −0.747
0.4113 −0.782
0.4129 −0.805
0.4164 −0.852
0.4180 −0.858
0.4195 −0.866
0.4231 −0.885
0.4251 −0.898
0.4270 −0.900
0.4313 −0.892
0.4331 −0.893
0.4349 −0.893
0.4385 −0.885
0.4405 −0.878
0.4426 −0.873
0.4463 −0.843
0.4482 −0.838
0.4500 −0.822
0.4543 −0.809
0.4561 −0.797
0.4581 −0.779
0.4621 −0.761
0.4639 −0.747
0.4658 −0.743
0.4695 −0.716
0.4712 −0.706
0.4730 −0.695

2437877 +
0.3966 +0.163
0.4007 +0.148
0.4028 +0.138
0.4049 +0.157
0.4099 +0.164
0.4109 +0.172
0.4123 +0.166
0.4133 +0.160
0.4144 +0.167
0.4154 +0.191
0.4199 +0.191
0.4220 +0.193
0.4241 +0.188
0.4262 +0.187
0.4311 +0.202
0.4331 +0.206
0.4352 +0.203
0.4373 +0.194
0.4422 +0.203
0.4442 +0.205
0.4484 +0.188
0.4543 +0.188
0.4574 +0.149
0.4595 +0.128
0.4639 +0.040
0.4653 +0.014
0.4667 −0.013
0.4681 −0.031
0.4718 −0.131
0.4732 −0.174
0.4746 −0.214
0.4760 −0.246
0.4815 −0.416
0.4829 −0.460
0.4843 −0.494
0.4857 −0.536
0.4889 −0.648
0.4903 −0.676
0.4917 −0.730
0.4931 −0.763
0.4963 −0.841
0.4977 −0.860
0.4991 −0.889
0.5005 −0.905
0.5044 −0.959
0.5058 −0.975
0.5072 −0.990
0.5086 −1.012
0.5121 −1.019
0.5135 −1.015
0.5148 −1.020
0.5162 −1.030
0.5202 −1.015
0.5216 −1.021
0.5230 −1.019
0.5243 −1.021
0.5278 −1.006
0.5292 −0.994
0.5306 −0.994
0.5320 −0.980
0.5352 −0.947
0.5366 −0.940
0.5380 −0.939
0.5394 −0.926
0.5433 −0.890
0.5447 −0.882
0.5466 −0.876
0.5480 −0.855
0.5514 −0.845
0.5528 −0.832
0.5542 −0.807
0.5556 −0.810
0.5588 −0.802
0.5602 −0.783
0.5616 −0.777
0.5630 −0.778
0.5662 −0.740
0.5676 −0.726
0.5690 −0.714
0.5704 −0.706
0.5736 −0.671
0.5750 −0.668
0.5764 −0.643
0.5778 −0.642

2437881 +
0.4415 −0.325
0.4450 −0.404
0.4481 −0.510
0.4505 −0.628
0.4589 −0.868
0.4610 −0.900
0.4630 −0.967
0.4651 −0.989
0.4728 −1.061
0.4755 −1.083
0.4780 −1.074
0.4800 −1.067
0.4825 −1.055
0.4901 −0.981
0.4922 −0.962
0.4960 −0.930
0.5064 −0.865
0.5092 −0.834
0.5116 −0.810
0.5162 −0.796
0.5189 −0.768

2437885 +
0.3828 −0.015
0.3838 −0.036
0.3863 −0.062
0.3936 −0.174
0.3967 −0.216
0.3984 −0.301
0.4005 −0.368

0.4015 −0.374
0.4078 −0.520
0.4113 −0.575
0.4126 −0.586
0.4144 −0.631

2437890 +
0.4737 −0.083
0.4778 −0.149
0.4861 −0.208
0.4889 −0.271
0.4917 −0.317
0.5035 −0.506
0.5056 −0.523
0.5098 −0.582
0.5174 −0.655
0.5195 −0.663
0.5243 −0.676
0.5264 −0.697
0.5365 −0.727
0.5396 −0.735
0.5438 −0.718
0.5479 −0.699
0.5500 −0.709
0.5587 −0.663
0.5640 −0.631
0.5691 −0.612

2437897 +
0.3341 −0.549
0.3385 −0.549
0.3404 −0.544
0.3421 −0.536
0.3470 −0.522
0.3486 −0.512
0.3521 −0.504
0.3538 −0.517
0.3554 −0.494
0.3585 −0.500
0.3602 −0.498
0.3620 −0.490
0.3665 −0.484
0.3700 −0.477
0.3734 −0.470
0.3752 −0.470
0.3771 −0.464
0.3828 −0.430
0.3845 −0.435
0.3885 −0.410

2437898 +
0.3669 +0.097
0.3696 +0.099
0.3719 +0.098
0.3733 +0.086
0.3772 +0.088
0.3786 +0.086
0.3804 +0.089
0.3853 +0.104
0.3867 +0.108
0.3881 +0.098
0.3913 +0.093

0.3927 +0.082
0.3943 +0.067
0.3978 +0.056
0.3992 +0.045
0.4006 +0.050
0.4052 +0.022
0.4066 +0.011
0.4085 −0.019
0.4117 −0.050
0.4131 −0.067
0.4147 −0.073
0.4193 −0.134
0.4207 −0.150
0.4224 −0.164
0.4260 −0.210
0.4274 −0.235
0.4321 −0.324
0.4337 −0.338
0.4351 −0.353
0.4379 −0.371
0.4392 −0.394
0.4406 −0.418
0.4436 −0.442
0.4450 −0.436
0.4464 −0.442
0.4499 −0.456
0.4513 −0.455
0.4527 −0.459
0.4559 −0.462
0.4624 −0.463
0.4638 −0.478
0.4652 −0.479
0.4680 −0.477
0.4693 −0.484
0.4714 −0.478
0.4754 −0.477
0.4768 −0.474
0.4832 −0.471
0.4846 −0.469
0.4881 −0.465
0.4895 −0.467
0.4909 −0.473
0.4952 −0.457
0.4976 −0.461
0.5020 −0.453
0.5043 −0.454
0.5062 −0.437
0.5103 −0.439
0.5131 −0.424
0.5161 −0.429
0.5175 −0.414
0.5189 −0.424
0.5233 −0.413
0.5247 −0.396

2438207 +
0.3554 +0.137
0.3686 +0.072
0.3707 +0.054
0.3769 −0.019
0.3783 −0.031
0.3825 −0.086

0.3839 −0.127
0.3852 −0.158
0.3894 −0.232
0.3908 −0.264
0.3922 −0.303
0.3957 −0.349
0.3968 −0.366
0.3980 −0.395
0.4002 −0.429
0.4013 −0.440
0.4022 −0.446
0.4047 −0.488
0.4056 −0.490
0.4065 −0.515
0.4094 −0.558
0.4102 −0.557
0.4116 −0.583
0.4144 −0.607
0.4153 −0.622
0.4162 −0.634
0.4196 −0.669
0.4210 −0.676
0.4220 −0.693
0.4248 −0.692
0.4262 −0.713
0.4276 −0.714
0.4304 −0.721
0.4318 −0.730
0.4332 −0.730
0.4359 −0.735
0.4373 −0.739
0.4387 −0.746
0.4422 −0.752
0.4436 −0.762
0.4457 −0.750
0.4484 −0.747
0.4498 −0.745
0.4547 −0.716
0.4561 −0.717
0.4575 −0.709
0.4609 −0.702
0.4623 −0.696
0.4637 −0.689
0.4672 −0.678
0.4686 −0.682
0.4707 −0.670

2438216 +
0.4024 +0.142
0.4037 +0.124
0.4053 +0.129
0.4095 +0.126
0.4112 +0.127
0.4128 +0.136
0.4191 +0.112
0.4261 +0.081
0.4286 +0.053
0.4327 +0.023
0.4345 +0.012
0.4369 −0.024
0.4406 −0.083
0.4417 −0.097

0.4431 −0.128
0.4512 −0.237
0.4524 −0.245
0.4535 −0.252
0.4572 −0.328
0.4583 −0.335
0.4593 −0.351
0.4617 −0.366
0.4628 −0.375
0.4638 −0.397
0.4649 −0.432
0.4685 −0.456
0.4696 −0.458
0.4709 −0.480
0.4731 −0.502
0.4754 −0.529
0.4768 −0.551
0.4784 −0.557
0.4811 −0.577
0.4823 −0.589
0.4836 −0.595
0.4849 −0.604
0.4889 −0.628
0.4903 −0.639
0.4919 −0.635
0.4934 −0.643
0.4964 −0.653
0.4976 −0.665
0.4993 −0.664
0.5053 −0.650
0.5066 −0.648
0.5083 −0.636
0.5128 −0.634
0.5144 −0.631
0.5158 −0.620
0.5176 −0.622
0.5210 −0.616
0.5223 −0.616
0.5234 −0.618
0.5245 −0.613
0.5272 −0.607
0.5284 −0.603
0.5297 −0.598
0.5307 −0.595
0.5348 −0.592
0.5362 −0.585
0.5376 −0.576
0.5393 −0.572
0.5422 −0.577
0.5436 −0.572
0.5455 −0.560
0.5494 −0.546
0.5506 −0.539
0.5528 −0.529

2438220 +
0.4009 +0.089
0.4019 +0.075
0.4072 −0.005
0.4087 −0.022
0.4124 −0.077
0.4141 −0.124

0.4181 −0.202
0.4201 −0.216
0.4241 −0.291
0.4255 −0.304
0.4291 −0.338
0.4343 −0.371
0.4361 −0.372
0.4398 −0.426
0.4415 −0.432
0.4455 −0.452
0.4534 −0.531
0.4636 −0.601
0.4659 −0.605
0.4703 −0.622
0.4723 −0.629
0.4765 −0.661
0.4799 −0.670
0.4860 −0.676
0.4880 −0.670
0.4919 −0.662
0.4940 −0.659
0.4984 −0.657
0.5006 −0.657
0.5052 −0.644
0.5070 −0.639
0.5113 −0.595
0.5132 −0.592
0.5175 −0.583
0.5194 −0.563

2438229 +
0.4740 +0.142
0.4753 +0.143
0.4767 +0.131
0.4799 +0.096
0.4814 +0.066
0.4829 +0.035
0.4856 +0.022
0.4870 +0.001
0.4884 −0.013
0.4915 −0.057
0.4926 −0.080
0.4940 −0.097
0.4968 −0.151
0.4981 −0.176
0.4993 −0.206
0.5024 −0.253
0.5036 −0.281
0.5047 −0.306
0.5073 −0.340
0.5087 −0.373
0.5102 −0.410
0.5130 −0.435
0.5144 −0.444
0.5163 −0.469
0.5193 −0.510
0.5205 −0.526
0.5217 −0.533
0.5246 −0.564
0.5262 −0.585
0.5272 −0.609
0.5300 −0.630

0.5314 −0.642
0.5326 −0.658
0.5359 −0.696
0.5380 −0.702
0.5397 −0.713
0.5436 −0.733
0.5450 −0.739
0.5470 −0.759
0.5498 −0.755
0.5515 −0.752
0.5536 −0.758
0.5571 −0.769
0.5587 −0.774
0.5602 −0.779
0.5639 −0.770
0.5654 −0.777
0.5670 −0.771
0.5706 −0.758
0.5717 −0.743
0.5729 −0.737
0.5757 −0.721
0.5771 −0.702
0.5786 −0.711
0.5818 −0.690

2438233 +
0.4795 −0.358
0.4829 −0.424
0.4878 −0.490
0.5072 −0.690
0.5124 −0.728
0.5194 −0.769
0.5267 −0.769
0.5402 −0.740
0.5475 −0.697

2438241 +
0.4244 −0.576
0.4289 −0.633
0.4311 −0.664
0.4330 −0.681
0.4348 −0.711
0.4387 −0.731
0.4408 −0.724
0.4425 −0.744
0.4466 −0.770
0.4484 −0.780
0.4504 −0.767
0.4588 −0.774
0.4625 −0.779
0.4667 −0.770
0.4687 −0.772
0.4722 −0.760
0.4778 −0.729
0.4798 −0.730
0.4819 −0.730
0.4882 −0.701
0.4903 −0.690
0.4917 −0.678
0.4965 −0.644
0.4979 −0.641
0.4993 −0.622

0.5024 −0.596

2438258 +
0.3494 +0.164
0.3508 +0.146
0.3536 +0.167
0.3546 +0.156
0.3556 +0.167
0.3588 +0.157
0.3598 +0.147
0.3612 +0.139
0.3657 +0.136
0.3671 +0.126
0.3681 +0.127
0.3726 +0.109
0.3740 +0.107
0.3751 +0.103
0.3779 +0.080
0.3789 +0.080
0.3799 +0.075
0.3831 +0.033
0.3841 +0.014
0.3852 +0.005
0.3879 −0.036
0.3893 −0.050
0.3904 −0.075
0.3942 −0.107
0.3952 −0.121
0.3963 −0.142
0.3987 −0.180
0.3997 −0.201
0.4008 −0.208
0.4039 −0.246
0.4056 −0.281
0.4067 −0.300
0.4098 −0.345
0.4119 −0.354
0.4129 −0.378
0.4161 −0.406
0.4171 −0.410
0.4181 −0.428
0.4209 −0.469
0.4220 −0.478
0.4234 −0.492
0.4261 −0.535
0.4272 −0.544
0.4282 −0.559
0.4306 −0.592
0.4320 −0.601
0.4334 −0.614
0.4369 −0.637
0.4386 −0.652
0.4397 −0.665
0.4424 −0.693
0.4435 −0.697
0.4446 −0.704
0.4476 −0.716
0.4487 −0.720
0.4501 −0.719
0.4532 −0.726
0.4549 −0.726
0.4563 −0.728

0.4591 −0.735
0.4608 −0.734
0.4619 −0.728
0.4650 −0.718
0.4661 −0.715
0.4678 −0.704
0.4709 −0.689
0.4723 −0.690
0.4740 −0.674
0.4779 −0.659
0.4789 −0.655
0.4799 −0.651

2438274 +
0.3072 −0.564
0.3141 −0.652
0.3166 −0.696
0.3221 −0.727
0.3245 −0.767
0.3290 −0.787
0.3384 −0.823
0.3450 −0.799
0.3475 −0.796
0.3530 −0.763
0.3558 −0.741
0.3635 −0.729
0.3739 −0.672
0.3829 −0.636
0.3860 −0.628
0.3922 −0.582
0.3943 −0.580
0.3985 −0.563
0.3999 −0.570
0.4013 −0.555

2438275 +
0.3831 +0.134
0.3852 +0.139
0.3894 +0.130
0.3915 +0.122
0.3956 +0.105
0.3977 +0.078

2438283 +
0.3918 −0.701
0.3932 −0.710
0.3949 −0.722
0.3967 −0.735
0.4008 −0.759
0.4022 −0.765
0.4057 −0.783
0.4074 −0.769
0.4113 −0.769
0.4126 −0.763
0.4158 −0.758
0.4168 −0.754
0.4204 −0.739
0.4238 −0.731
0.4252 −0.731
0.4283 −0.727
0.4300 −0.726
0.4338 −0.692

0.4349 −0.691
0.4380 −0.688
0.4394 −0.675

2438287 +
0.2925 +0.168
0.2942 +0.163
0.2975 +0.120
0.2993 +0.093
0.3008 +0.054
0.3046 +0.001
0.3069 −0.024
0.3112 −0.133
0.3132 −0.162
0.3149 −0.169
0.3184 −0.232
0.3201 −0.264
0.3217 −0.309
0.3262 −0.379
0.3274 −0.393
0.3317 −0.451
0.3342 −0.475
0.3382 −0.522
0.3395 −0.534
0.3416 −0.550
0.3456 −0.587
0.3468 −0.612
0.3489 −0.630
0.3538 −0.664
0.3560 −0.674
0.3602 −0.712
0.3626 −0.717
0.3678 −0.744
0.3692 −0.733
0.3737 −0.749
0.3756 −0.748
0.3788 −0.744
0.3803 −0.751
0.3822 −0.738
0.3856 −0.726
0.3888 −0.726
0.3956 −0.713
0.3979 −0.703
0.4008 −0.691
0.4034 −0.670
0.4055 −0.652
0.4066 −0.651
0.4078 −0.637
0.4102 −0.643
0.4112 −0.634
0.4123 −0.632
0.4144 −0.611
0.4154 −0.601
0.4185 −0.604
0.4206 −0.591

2438316 +
0.2459 −0.451
0.2480 −0.471
0.2522 −0.524
0.2543 −0.549
0.2578 −0.597

0.2619 −0.641
0.2640 −0.663
0.2665 −0.687
0.2695 −0.708
0.2723 −0.716
0.2744 −0.724
0.2792 −0.738
0.2813 −0.735
0.2834 −0.743
0.2879 −0.735
0.2907 −0.739
0.2928 −0.743
0.2966 −0.724
0.2990 −0.726
0.3011 −0.724
0.3053 −0.703
0.3074 −0.687
0.3095 −0.687
0.3143 −0.655
0.3167 −0.663
0.3188 −0.646

2438580 +
0.3631 +0.177
0.3644 +0.158
0.3700 +0.111
0.3742 +0.043
0.3804 −0.067
0.3825 −0.119
0.3867 −0.163
0.3888 −0.265
0.3908 −0.297
0.3971 −0.481
0.3992 −0.534
0.4033 −0.629
0.4054 −0.695
0.4075 −0.722
0.4138 −0.799
0.4158 −0.826
0.4200 −0.907
0.4242 −0.941
0.4450 −0.912
0.4471 −0.885
0.4492 −0.861
0.4533 −0.825
0.4554 −0.795
0.4575 −0.795
0.4617 −0.738
0.4638 −0.734

2438584 +
0.3698 −0.555
0.3823 −0.733
0.3844 −0.777
0.3917 −0.870
0.3948 −0.892
0.4007 −0.927
0.4066 −0.921
0.4087 −0.904

2438593 +
0.4518 −0.772

0.4563 −0.758
0.4580 −0.756
0.4709 −0.715
0.4751 −0.708
0.4765 −0.698
0.4806 −0.696
0.4823 −0.673
0.4872 −0.661
0.4897 −0.641
0.4938 −0.626
0.4955 −0.604
0.4997 −0.583
0.5018 −0.591

2438597 +
0.3489 +0.061
0.3569 −0.016
0.3582 −0.009
0.3625 −0.060
0.3638 −0.092
0.3757 −0.295
0.3774 −0.308
0.3819 −0.386
0.3833 −0.424
0.3875 −0.462
0.3889 −0.485
0.3941 −0.545
0.3958 −0.546
0.4000 −0.623
0.4017 −0.641

2438598 +
0.5055 −0.262
0.5121 −0.393
0.5159 −0.438
0.5173 −0.454
0.5208 −0.532
0.5222 −0.543
0.5258 −0.582
0.5326 −0.619
0.5361 −0.655
0.5371 −0.664
0.5408 −0.670
0.5425 −0.672
0.5465 −0.675
0.5517 −0.675
0.5534 −0.652
0.5578 −0.652
0.5597 −0.648
0.5659 −0.623

2438602 +
0.4715 −0.164
0.4736 −0.220
0.4791 −0.329
0.4843 −0.427
0.4857 −0.440
0.4899 −0.455
0.4920 −0.464
0.4965 −0.485
0.4982 −0.508
0.5052 −0.579

0.5093 −0.594
0.5177 −0.602
0.5198 −0.603
0.5253 −0.616
0.5274 −0.601
0.5326 −0.601
0.5343 −0.593
0.5382 −0.593
0.5510 −0.543
0.5527 −0.528
0.5548 −0.518

2438614 +
0.3659 +0.104
0.3711 +0.085
0.3732 +0.076
0.3804 +0.011
0.3836 −0.020
0.3856 −0.048
0.3898 −0.100
0.3919 −0.123
0.3961 −0.177
0.3982 −0.191
0.4023 −0.256
0.4041 −0.275
0.4086 −0.316
0.4106 −0.346
0.4155 −0.407
0.4169 −0.424
0.4211 −0.475
0.4228 −0.491
0.4266 −0.555
0.4280 −0.598
0.4315 −0.649
0.4329 −0.650
0.4370 −0.724
0.4384 −0.742
0.4419 −0.772
0.4440 −0.772
0.4482 −0.787
0.4530 −0.795
0.4544 −0.793
0.4582 −0.790
0.4593 −0.792
0.4648 −0.770
0.4686 −0.756
0.4704 −0.750
0.4738 −0.730

2438622 +
0.3260 −0.094
0.3281 −0.125
0.3343 −0.306
0.3364 −0.383
0.3406 −0.527
0.3427 −0.576
0.3469 −0.688
0.3489 −0.747
0.3531 −0.850
0.3542 −0.878
0.3594 −0.970
0.3618 −0.984

0.3656 −1.007
0.3677 −1.026
0.3725 −1.023
0.3746 −1.003
0.3802 −0.990
0.3823 −0.981
0.3913 −0.933
0.3941 −0.915
0.3996 −0.889
0.4017 −0.876

2438627 +
0.3783 +0.174
0.3804 +0.182
0.3846 +0.186
0.3867 +0.190
0.3908 +0.164
0.3929 +0.174
0.3971 +0.138
0.3992 +0.132
0.4040 +0.103
0.4061 +0.093
0.4103 +0.031
0.4124 −0.014
0.4165 −0.083
0.4186 −0.133
0.4228 −0.247
0.4245 −0.288
0.4283 −0.418
0.4301 −0.476
0.4339 −0.586
0.4356 −0.634
0.4398 −0.755
0.4419 −0.794
0.4453 −0.873
0.4471 −0.882
0.4512 −0.919
0.4533 −0.939
0.4575 −0.965
0.4596 −0.952
0.4637 −0.969
0.4658 −0.977
0.4700 −0.962
0.4721 −0.957
0.4759 −0.943
0.4780 −0.924
0.4821 −0.905
0.4839 −0.883
0.4877 −0.857
0.4894 −0.844

2438631 +
0.3645 +0.104
0.3655 +0.086
0.3669 +0.081
0.3683 +0.052
0.3697 +0.047
0.3728 −0.030
0.3738 −0.038
0.3780 −0.109
0.3794 −0.158
0.3836 −0.238

0.3850 −0.272
0.3891 −0.369
0.3905 −0.394
0.3916 −0.427
0.3950 −0.488
0.3964 −0.519
0.3978 −0.550
0.4009 −0.576
0.4020 −0.607
0.4034 −0.616
0.4061 −0.662
0.4075 −0.679
0.4086 −0.698
0.4117 −0.749
0.4131 −0.757
0.4148 −0.765
0.4207 −0.818
0.4221 −0.837
0.4256 −0.857
0.4266 −0.857
0.4280 −0.869
0.4322 −0.862
0.4336 −0.857
0.4346 −0.854
0.4391 −0.855
0.4405 −0.842
0.4419 −0.845
0.4454 −0.836
0.4471 −0.827
0.4488 −0.809
0.4520 −0.796
0.4534 −0.797
0.4544 −0.797
0.4582 −0.769
0.4593 −0.756
0.4606 −0.750
0.4634 −0.732
0.4654 −0.719
0.4725 −0.677

2438635 +
0.3471 −0.256
0.3502 −0.327
0.3533 −0.391
0.3577 −0.477
0.3616 −0.531
0.3627 −0.540
0.3637 −0.570
0.3672 −0.586
0.3682 −0.588
0.3696 −0.610
0.3731 −0.661
0.3748 −0.688
0.3783 −0.723
0.3797 −0.728
0.3818 −0.742
0.3870 −0.777
0.3884 −0.789
0.3908 −0.795
0.3950 −0.788
0.3967 −0.781
0.4029 −0.754

0.4047 −0.752
0.4096 −0.742
0.4116 −0.716
0.4151 −0.709
0.4165 −0.719
0.4196 −0.693
0.4210 −0.678
0.4220 −0.677
0.4332 −0.620
0.4349 −0.628
0.4366 −0.603

2438643 +
0.2919 −0.382
0.2939 −0.395
0.2953 −0.402
0.2978 −0.429
0.2988 −0.446
0.2998 −0.469
0.3019 −0.476
0.3030 −0.478
0.3040 −0.478
0.3061 −0.480
0.3071 −0.484
0.3082 −0.488
0.3103 −0.489
0.3113 −0.494
0.3123 −0.504
0.3144 −0.505
0.3155 −0.515
0.3165 −0.513
0.3186 −0.520
0.3196 −0.524
0.3207 −0.525
0.3228 −0.525
0.3238 −0.523
0.3248 −0.525
0.3269 −0.521
0.3280 −0.530
0.3290 −0.528
0.3311 −0.541
0.3321 −0.545
0.3332 −0.545
0.3353 −0.548
0.3363 −0.547
0.3373 −0.540
0.3394 −0.549
0.3405 −0.540
0.3441 −0.548
0.3457 −0.548
0.3478 −0.551
0.3488 −0.554
0.3512 −0.554
0.3537 −0.551
0.3558 −0.543
0.3571 −0.552
0.3592 −0.532
0.3613 −0.530
0.3634 −0.526
0.3655 −0.527
0.3676 −0.529
0.3696 −0.520

Table 4.

0.3721 −0.520
0.3731 −0.515
0.3742 −0.505
0.3762 −0.495
0.3773 −0.498
0.3783 −0.492
0.3804 −0.483
0.3814 −0.490
0.3825 −0.483
0.3846 −0.494
0.3856 −0.486
0.3867 −0.480
0.3887 −0.470
0.3898 −0.459
0.3908 −0.463
0.3929 −0.452
0.3939 −0.448
0.3950 −0.452
0.3971 −0.443
0.3981 −0.432
0.3992 −0.425

2438660 +
0.2776 +0.248
0.2797 +0.237
0.2863 +0.180
0.2918 +0.116
0.2939 +0.088
0.2977 +0.050
0.2995 +0.030
0.3043 −0.045
0.3068 −0.078
0.3116 −0.151
0.3130 −0.207
0.3179 −0.343
0.3199 −0.390
0.3257 −0.545
0.3304 −0.625
0.3321 −0.646
0.3356 −0.725
0.3370 −0.758
0.3413 −0.829
0.3439 −0.858
0.3470 −0.875
0.3491 −0.878
0.3533 −0.897
0.3547 −0.917
0.3585 −0.921
0.3606 −0.913
0.3647 −0.902
0.3665 −0.891
0.3696 −0.892
0.3710 −0.887
0.3727 −0.879

2438665 +
0.3466 +0.179
0.3486 +0.173
0.3528 +0.187
0.3542 +0.175
0.3584 +0.198
0.3656 +0.199
0.3691 +0.182
0.3708 +0.198
0.3756 +0.194
0.3806 +0.190
0.3827 +0.193
0.3868 +0.164
0.3889 +0.145
0.3931 +0.102
0.3952 +0.031
0.3993 −0.043
0.4004 −0.069
0.4049 −0.150
0.4077 −0.208
0.4118 −0.327
0.4136 −0.358
0.4153 −0.396
0.4188 −0.459
0.4202 −0.501
0.4219 −0.532
0.4250 −0.621
0.4264 −0.672
0.4278 −0.710
0.4320 −0.769
0.4334 −0.807
0.4347 −0.824
0.4379 −0.866
0.4392 −0.892
0.4410 −0.914
0.4452 −0.956
0.4486 −0.966
0.4525 −0.969
0.4542 −0.971
0.4559 −0.973
0.4611 −0.945
0.4646 −0.935

2438669 +
0.3142 +0.189
0.3197 +0.202
0.3218 +0.207
0.3274 +0.188
0.3302 +0.179
0.3364 +0.176
0.3385 +0.186
0.3440 +0.165
0.3468 +0.131
0.3517 +0.098
0.3545 +0.057
0.3600 −0.035
0.3628 −0.070
0.3684 −0.201
0.3704 −0.297
0.3795 −0.516
0.3822 −0.593
0.3878 −0.743
0.3913 −0.805
0.3975 −0.940
0.4006 −0.975
0.4177 −0.958
0.4225 −0.944
0.4246 −0.922
0.4288 −0.894

2438673 +
0.2787 +0.148
0.2804 +0.155
0.2860 +0.129
0.2881 +0.133
0.2940 +0.134
0.2992 +0.124
0.3013 +0.125
0.3054 +0.101
0.3075 +0.086
0.3124 +0.026
0.3141 +0.021
0.3183 −0.006
0.3197 −0.035
0.3235 −0.133
0.3301 −0.232
0.3315 −0.298
0.3350 −0.376
0.3360 −0.392
0.3402 −0.491
0.3416 −0.535
0.3461 −0.647
0.3478 −0.656
0.3676 −0.888
0.3711 −0.874
0.3728 −0.875
0.3742 −0.870
0.3780 −0.857
0.3801 −0.851
0.3839 −0.822
0.3860 −0.812
0.3898 −0.784
0.3919 −0.781

2438698 +
0.2481 +0.179
0.2523 +0.186
0.2564 +0.186
0.2606 +0.157
0.2616 +0.160
0.2644 +0.145
0.2654 +0.141
0.2703 +0.076
0.2717 +0.069
0.2762 +0.021
0.2807 −0.051
0.2821 −0.053
0.2856 −0.135
0.2873 −0.139
0.2915 −0.226
0.2925 −0.225
0.2960 −0.311
0.2974 −0.349
0.3012 −0.426
0.3026 −0.458
0.3036 −0.461
0.3071 −0.537
0.3085 −0.541
0.3137 −0.650
0.3151 −0.657
0.3165 −0.698
0.3200 −0.731
0.3255 −0.796
0.3271 −0.813
0.3300 −0.844
0.3318 −0.842
0.3352 −0.868
0.3366 −0.866
0.3380 −0.874
0.3422 −0.879
0.3436 −0.871
0.3470 −0.887
0.3481 −0.883
0.3495 −0.890
0.3536 −0.877
0.3556 −0.877
0.3571 −0.860

2438882 +
0.5010 −0.595
0.5056 −0.649
0.5069 −0.660
0.5111 −0.687
0.5128 −0.701
0.5146 −0.719
0.5198 −0.754
0.5266 −0.762
0.5344 −0.735
0.5361 −0.737
0.5417 −0.694
0.5451 −0.690
0.5483 −0.681
0.5500 −0.683
0.5517 −0.669
0.5549 −0.665
0.5562 −0.668
0.5611 −0.643
0.5628 −0.637
0.5646 −0.622
0.5677 −0.608
0.5740 −0.582
0.5771 −0.575
0.5806 −0.544
0.5830 −0.541
0.5851 −0.534
0.5865 −0.529
0.5899 −0.523

2438966 +
0.4057 −0.650
0.4078 −0.672
0.4157 −0.685
0.4187 −0.686
0.4243 −0.676
0.4286 −0.673
0.4307 −0.668
0.4348 −0.658
0.4369 −0.659
0.4418 −0.635
0.4439 −0.628
0.4487 −0.618
0.4504 −0.609
0.4543 −0.602
0.4553 −0.601
0.4640 −0.569
0.4689 −0.558
0.4710 −0.550
0.4747 −0.522
0.4764 −0.535
0.4800 −0.509

2438967 +
0.4424 +0.148
0.4447 +0.148
0.4535 +0.160
0.4549 +0.163
0.4709 +0.160
0.4737 +0.166
0.4757 +0.154
0.4768 +0.167
0.5157 −0.334
0.5192 −0.371
0.5240 −0.437

2438975 +
0.3942 +0.242
0.3967 +0.217
0.4023 +0.235
0.4044 +0.217
0.4064 +0.210
0.4127 +0.220
0.4141 +0.227
0.4155 +0.214
0.4196 +0.214
0.4210 +0.199
0.4224 +0.199
0.4266 +0.173
0.4280 +0.165
0.4297 +0.157
0.4332 +0.123
0.4349 +0.104
0.4360 +0.085
0.4398 +0.013
0.4419 −0.019
0.4433 −0.030
0.4471 −0.073
0.4488 −0.103
0.4502 −0.140
0.4540 −0.202
0.4554 −0.234
0.4571 −0.264
0.4613 −0.305
0.4627 −0.313
0.4644 −0.327
0.4707 −0.389
0.4721 −0.398
0.4766 −0.399
0.4787 −0.415
0.4853 −0.434
0.4873 −0.440
0.4894 −0.442
0.4926 −0.455
0.4967 −0.470
0.5016 −0.526
0.5033 −0.557

0.5051 −0.570
0.5089 −0.587
0.5106 −0.603
0.5127 −0.614
0.5169 −0.654
0.5186 −0.655

2438979 +
0.3641 +0.237
0.3672 +0.240
0.3690 +0.251
0.3704 +0.244
0.3714 +0.251
0.3784 +0.245
0.3794 +0.244
0.3808 +0.242
0.3846 +0.251
0.3888 +0.245
0.3947 +0.243
0.3999 +0.228
0.4013 +0.220
0.4033 +0.207
0.4065 +0.152
0.4075 +0.146
0.4086 +0.146
0.4099 +0.112
0.4134 +0.078
0.4148 +0.053
0.4165 +0.041
0.4179 +0.004
0.4211 −0.019
0.4224 −0.047
0.4235 −0.079
0.4280 −0.153
0.4301 −0.199
0.4329 −0.242
0.4339 −0.258
0.4353 −0.263
0.4388 −0.303
0.4402 −0.309
0.4415 −0.323
0.4447 −0.354
0.4457 −0.355
0.4471 −0.382
0.4502 −0.413
0.4513 −0.419
0.4527 −0.425
0.4575 −0.467
0.4592 −0.476
0.4627 −0.519
0.4652 −0.534
0.4683 −0.589
0.4700 −0.599
0.4711 −0.625
0.4742 −0.660
0.4756 −0.662
0.4773 −0.685
0.4822 −0.747
0.4839 −0.757
0.4874 −0.770
0.4891 −0.784
0.4929 −0.783

0.4981 −0.801
0.4995 −0.804
0.5013 −0.801
0.5065 −0.781
0.5082 −0.787
0.5113 −0.762
0.5124 −0.762
0.5141 −0.738
0.5197 −0.706
0.5211 −0.699
0.5398 −0.626
0.5415 −0.601
0.5429 −0.592
0.5478 −0.570
0.5495 −0.550
0.5534 −0.553
0.5554 −0.544
0.5568 −0.548
0.5599 −0.528
0.5617 −0.522
0.5634 −0.515

2438992 +
0.4350 +0.210
0.4400 +0.190
0.4410 +0.195
0.4421 +0.194
0.4462 +0.170
0.4483 +0.157
0.4504 +0.136
0.4560 +0.004
0.4574 −0.010
0.4615 −0.090
0.4626 −0.119
0.4636 −0.125
0.4657 −0.200
0.4667 −0.221
0.4678 −0.281
0.4712 −0.345
0.4726 −0.392
0.4740 −0.427
0.4775 −0.480
0.4789 −0.521
0.4806 −0.534
0.4855 −0.643
0.4869 −0.693
0.4900 −0.749
0.4917 −0.776
0.4931 −0.803
0.4966 −0.811
0.4980 −0.813
0.4994 −0.820
0.5028 −0.833
0.5042 −0.842
0.5060 −0.852
0.5087 −0.878
0.5105 −0.892
0.5119 −0.900
0.5155 −0.899
0.5171 −0.893
0.5207 −0.893
0.5226 −0.881

0.5261 −0.874
0.5282 −0.856
0.5303 −0.852
0.5431 −0.771
0.5497 −0.752
0.5525 −0.734
0.5532 −0.714

2438995 +
0.2918 −0.130
0.2929 −0.143
0.2963 −0.226
0.2977 −0.270
0.2991 −0.301
0.3026 −0.365
0.3040 −0.419
0.3050 −0.459
0.3088 −0.523
0.3116 −0.605
0.3133 −0.645
0.3165 −0.711
0.3182 −0.730
0.3196 −0.764
0.3251 −0.855
0.3269 −0.872
0.3304 −0.903
0.3317 −0.926
0.3338 −0.938
0.3383 −0.957
0.3404 −0.948
0.3428 −0.965
0.3494 −0.941
0.3508 −0.934
0.3543 −0.899
0.3554 −0.895

2439008 +
0.3297 −0.445
0.3331 −0.490
0.3390 −0.567
0.3467 −0.643
0.3498 −0.641
0.3512 −0.652
0.3564 −0.655
0.3603 −0.661
0.3654 −0.655
0.3696 −0.659
0.3731 −0.664
0.3752 −0.660
0.3804 −0.657
0.3866 −0.646
0.3880 −0.640
0.4068 −0.597
0.4085 −0.577
0.4123 −0.555
0.4137 −0.550
0.4154 −0.542
0.4210 −0.537
0.4231 −0.522
0.4238 −0.516
0.4245 −0.514
0.4255 −0.516

0.4262 −0.517

2439020 +
0.2650 −0.352
0.2688 −0.416
0.2737 −0.472
0.2747 −0.481
0.2757 −0.486
0.2785 −0.543
0.2796 −0.542
0.2806 −0.548
0.2834 −0.606
0.2844 −0.604
0.2888 −0.661
0.2903 −0.676
0.2945 −0.708
0.2955 −0.708
0.2987 −0.729
0.2997 −0.723
0.3007 −0.734
0.3035 −0.741
0.3056 −0.751
0.3084 −0.747
0.3100 −0.753
0.3132 −0.751
0.3153 −0.745
0.3181 −0.740
0.3191 −0.727
0.3202 −0.730
0.3230 −0.698
0.3240 −0.693
0.3250 −0.694
0.3289 −0.675

2439025 +
0.3219 +0.136
0.3240 +0.144
0.3282 +0.114
0.3303 +0.082
0.3323 +0.056
0.3365 −0.007
0.3382 −0.017
0.3393 −0.031
0.3417 −0.099
0.3428 −0.109
0.3442 −0.153
0.3476 −0.222
0.3487 −0.232
0.3535 −0.317
0.3546 −0.327
0.3570 −0.376
0.3580 −0.379
0.3591 −0.379
0.3629 −0.434
0.3640 −0.446
0.3653 −0.453
0.3681 −0.466
0.3692 −0.491
0.3705 −0.506
0.3730 −0.540
0.3955 −0.770
0.3969 −0.779

0.3990 −0.794
0.4032 −0.813
0.4053 −0.814
0.4073 −0.832
0.4108 −0.815
0.4129 −0.812
0.4150 −0.793
0.4192 −0.787

2439058 +
0.2212 −0.249
0.2232 −0.299
0.2246 −0.309
0.2278 −0.326
0.2291 −0.339
0.2336 −0.383
0.2350 −0.386
0.2364 −0.389
0.2399 −0.427
0.2409 −0.433
0.2423 −0.422
0.2455 −0.435
0.2469 −0.458
0.2482 −0.449
0.2517 −0.456
0.2534 −0.472
0.2552 −0.464
0.2604 −0.505
0.2614 −0.508
0.2635 −0.525
0.2673 −0.536
0.2696 −0.560
0.2753 −0.579
0.2771 −0.597
0.2784 −0.610
0.2823 −0.627
0.2837 −0.625
0.2850 −0.627
0.2875 −0.643
0.2885 −0.645
0.2899 −0.642
0.2941 −0.637
0.2968 −0.614
0.3007 −0.603
0.3017 −0.605
0.3034 −0.600
0.3066 −0.595
0.3083 −0.593
0.3128 −0.591
0.3142 −0.597
0.3212 −0.564
0.3232 −0.566
0.3253 −0.541
0.3281 −0.549
0.3302 −0.548
0.3323 −0.539

2439071 +
0.2183 +0.245
0.2239 +0.247
0.2336 +0.209
0.2364 +0.186

0.2406 +0.138
0.2480 +0.045
0.2565 −0.085
0.2600 −0.146
0.2655 −0.300
0.2676 −0.333
0.2704 −0.384
0.2746 −0.456
0.2774 −0.499
0.2794 −0.521
0.2843 −0.607
0.2864 −0.616
0.2885 −0.663
0.2947 −0.758
0.2989 −0.790
0.3030 −0.796
0.3051 −0.804
0.3072 −0.826
0.3114 −0.843
0.3148 −0.840
0.3169 −0.841
0.3211 −0.847
0.3232 −0.840
0.3253 −0.820
0.3294 −0.799
0.3315 −0.795
0.3357 −0.785
0.3378 −0.775
0.3399 −0.755

2439234 +
0.5045 +0.003
0.5086 −0.066
0.5163 −0.199

2439250 +
0.3806 −0.762
0.3817 −0.765
0.3827 −0.773
0.3858 −0.772
0.3883 −0.797
0.3963 −0.806
0.3976 −0.812
0.4008 −0.794
0.4015 −0.804
0.4025 −0.804
0.4053 −0.791
0.4067 −0.786
0.4077 −0.774
0.4199 −0.705
0.4216 −0.704
0.4334 −0.644
0.4358 −0.642
0.4414 −0.605
0.4445 −0.609
0.4466 −0.599
0.4511 −0.568
0.4525 −0.553
0.4539 −0.555
0.4570 −0.545
0.4584 −0.524
0.4629 −0.504
0.4643 −0.501
0.4664 −0.496

2439267 +
0.4383 −0.710
0.4397 −0.720
0.4404 −0.723
0.4466 −0.756
0.4497 −0.781
0.4518 −0.787
0.4528 −0.788
0.4546 −0.778
0.4574 −0.756
0.4584 −0.742
0.4596 −0.743
0.4612 −0.735
0.4650 −0.729
0.4657 −0.720
0.4671 −0.715
0.4685 −0.703
0.4723 −0.701
0.4730 −0.694
0.4740 −0.693
0.4747 −0.695
0.4796 −0.672
0.4813 −0.677

2439323 +
0.4894 −0.179
0.4904 −0.209
0.4943 −0.317
0.4964 −0.346
0.4985 −0.425
0.5033 −0.504
0.5054 −0.561
0.5117 −0.671
0.5137 −0.687
0.5154 −0.710
0.5189 −0.761
0.5203 −0.788
0.5223 −0.789
0.5258 −0.838
0.5276 −0.842
0.5290 −0.866
0.5333 −0.885
0.5362 −0.884
0.5413 −0.887
0.5438 −0.880
0.5473 −0.849
0.5492 −0.849
0.5512 −0.840
0.5554 −0.809
0.5575 −0.782
0.5589 −0.754
0.5624 −0.740
0.5640 −0.718
0.5658 −0.703
0.5705 −0.666

2439343 +
0.3418 −0.313
0.3446 −0.346
0.3488 −0.367
0.3509 −0.388

2439347 +
0.3405 −0.561
0.3416 −0.577
0.3426 −0.574
0.3447 −0.635
0.3457 −0.632
0.3468 −0.663
0.3489 −0.693
0.3499 −0.710
0.3509 −0.723
0.3530 −0.741
0.3575 −0.789
0.3586 −0.800
0.3596 −0.795
0.3617 −0.808
0.3628 −0.810
0.3638 −0.810
0.3659 −0.816
0.3669 −0.812
0.3680 −0.818
0.3700 −0.816
0.3711 −0.812
0.3721 −0.808
0.3742 −0.809
0.3752 −0.801
0.3763 −0.798
0.3784 −0.781
0.3794 −0.787
0.3805 −0.778
0.3825 −0.774
0.3836 −0.748
0.3846 −0.748

2439348 +
0.4405 −0.164
0.4426 −0.210
0.4454 −0.287
0.4471 −0.312
0.4481 −0.325
0.4516 −0.357
0.4530 −0.366
0.4544 −0.372
0.4641 −0.444
0.4655 −0.456
0.4672 −0.456
0.4710 −0.497
0.4728 −0.517
0.4742 −0.540
0.4773 −0.594
0.4787 −0.606
0.4804 −0.651
0.4842 −0.722
0.4860 −0.750
0.4874 −0.761
0.4908 −0.794
0.4926 −0.794
0.4936 −0.807
0.4968 −0.805
0.4981 −0.817
0.4999 −0.818
0.5068 −0.829
0.5082 −0.833
0.5092 −0.821
0.5131 −0.810
0.5145 −0.807
0.5155 −0.798
0.5190 −0.795
0.5210 −0.780
0.5238 −0.784
0.5280 −0.748
0.5290 −0.758

2439361 +
0.4879 −0.734
0.4900 −0.753
0.4911 −0.771
0.4921 −0.793
0.4942 −0.826
0.4952 −0.853
0.4963 −0.864
0.4984 −0.883
0.4994 −0.889
0.5025 −0.909
0.5036 −0.929
0.5046 −0.934
0.5067 −0.961
0.5077 −0.960
0.5109 −0.970
0.5119 −0.969
0.5129 −0.978
0.5150 −0.976
0.5161 −0.969
0.5171 −0.967
0.5192 −0.969
0.5202 −0.968
0.5213 −0.974
0.5234 −0.970
0.5244 −0.966
0.5254 −0.968
0.5275 −0.958
0.5286 −0.942
0.5296 −0.939

2439390 +
0.3444 +0.247
0.3486 +0.245
0.3497 +0.241
0.3552 +0.243
0.3573 +0.249
0.3594 +0.231
0.3639 +0.199
0.3656 +0.196
0.3674 +0.179
0.3737 +0.100
0.3767 +0.052
0.3809 −0.015
0.3826 −0.029
0.3840 −0.048
0.3938 −0.224
0.3951 −0.251
0.3969 −0.255
0.4010 −0.321
0.4028 −0.325
0.4049 −0.325
0.4097 −0.365
0.4132 −0.404
0.4177 −0.471
0.4191 −0.510
0.4208 −0.552
0.4254 −0.620
0.4274 −0.657
0.4292 −0.677
0.4326 −0.705
0.4340 −0.731
0.4358 −0.742
0.4396 −0.782
0.4413 −0.797
0.4434 −0.817
0.4479 −0.837
0.4500 −0.845
0.4517 −0.838
0.4569 −0.831
0.4587 −0.829
0.4628 −0.806
0.4642 −0.806
0.4656 −0.793
0.4691 −0.793
0.4705 −0.788
0.4722 −0.754
0.4806 −0.690
0.4819 −0.692

2439402 +
0.2644 +0.136
0.2664 +0.108
0.2762 −0.070
0.2772 −0.090
0.2782 −0.092
0.2810 −0.137
0.2826 −0.183
0.2862 −0.293
0.2880 −0.330
0.2897 −0.363
0.2939 −0.467
0.2953 −0.498
0.2970 −0.536
0.3012 −0.618
0.3029 −0.650
0.3043 −0.669
0.3078 −0.735
0.3092 −0.750
0.3109 −0.777
0.3147 −0.804
0.3161 −0.834
0.3175 −0.853
0.3220 −0.878
0.3234 −0.896
0.3248 −0.917
0.3286 −0.932
0.3303 −0.932
0.3314 −0.932
0.3352 −0.930
0.3362 −0.915

0.3380 −0.904
0.3411 −0.885
0.3428 −0.893
0.3446 −0.877
0.3460 −0.868
0.3474 −0.852

2439406 +
0.2628 −0.714
0.2637 −0.747
0.2645 −0.753
0.2659 −0.764
0.2669 −0.784
0.2756 −0.895
0.2770 −0.922
0.2780 −0.918
0.2791 −0.929
0.2812 −0.940
0.2820 −0.938
0.2829 −0.944
0.2853 −0.948
0.2864 −0.934
0.2874 −0.929
0.2896 −0.942
0.2905 −0.933
0.2912 −0.921
0.2944 −0.908
0.2957 −0.917
0.2985 −0.889
0.3010 −0.879
0.3041 −0.845
0.3062 −0.833
0.3093 −0.826
0.3103 −0.822
0.3138 −0.795
0.3148 −0.795
0.3173 −0.770
0.3194 −0.753

2439423 +
0.2575 −0.367
0.2589 −0.368
0.2679 −0.444
0.2704 −0.454

2439599 +
0.5623 −0.446
0.5664 −0.496
0.5675 −0.517
0.5703 −0.528
0.5713 −0.533
0.5724 −0.551
0.5751 −0.586
0.5762 −0.615
0.5772 −0.620
0.5800 −0.657
0.5810 −0.677
0.5821 −0.676
0.5848 −0.718

2439683 +
0.4519 −0.593
0.4530 −0.597
0.4540 −0.608
0.4575 −0.614
0.4592 −0.620
0.4700 −0.713
0.4783 −0.767
0.4797 −0.773
0.4846 −0.783
0.4866 −0.772
0.4908 −0.763
0.4922 −0.753
0.4988 −0.723
0.5052 −0.703
0.5130 −0.667
0.5172 −0.640
0.5200 −0.632

2439687 +
0.3867 +0.042
0.3888 +0.009
0.3936 −0.043
0.3999 −0.213
0.4061 −0.302
0.4082 −0.317
0.4186 −0.480
0.4249 −0.603
0.4270 −0.649
0.4311 −0.708
0.4332 −0.731
0.4374 −0.766
0.4395 −0.773
0.4436 −0.808
0.4457 −0.817
0.4499 −0.814
0.4520 −0.814
0.4561 −0.808
0.4582 −0.801
0.4624 −0.789
0.4645 −0.785
0.4686 −0.778
0.4707 −0.767
0.4749 −0.742
0.4770 −0.729
0.4811 −0.686
0.4832 −0.686
0.4874 −0,686

2439691 +
0.3748 −0.349
0.3769 −0.385
0.3811 −0.452
0.3831 −0.475
0.3919 −0.619
0.3991 −0.721
0.4033 −0.748
0.4054 −0.762
0.4095 −0.791
0.4116 −0.797
0.4158 −0.806
0.4179 −0.813
0.4231 −0.821
0.4283 −0.820
0.4304 −0.817
0.4356 −0.797
0.4408 −0.769
0.4429 −0.752
0.4470 −0.751
0.4491 −0.748
0.4533 −0.726
0.4554 −0.705
0.4595 −0.666
0.4616 −0.668
0.4658 −0.643
0.4762 −0.577

2439712 +
0.3330 −0.120
0.3347 −0.153
0.3365 −0.170
0.3434 −0.374
0.3524 −0.503
0.3535 −0.487
0.3587 −0.541
0.3660 −0.580
0.3677 −0.580
0.3698 −0.592
0.3747 −0.601
0.3767 −0.632
0.3795 −0.633
0.3865 −0.689
0.3885 −0.698
0.3934 −0.700
0.3955 −0.697
0.4024 −0.714
0.4045 −0.719
0.4062 −0.717
0.4097 −0.704
0.4135 −0.695
0.4198 −0.660
0.4212 −0.640
0.4229 −0.640
0.4281 −0.611
0.4330 −0.602

2439716 +
0.3375 −0.535
0.3386 −0.551
0.3396 −0.564
0.3431 −0.610
0.3441 −0.612
0.3750 −0.696
0.3761 −0.692
0.3771 −0.695
0.3806 −0.691
0.3816 −0.697
0.3882 −0.665
0.3917 −0.682
0.3927 −0.673
0.3938 −0.669

2439721 +
0.4045 −0.107
0.4066 −0.141
0.4150 −0.317
0.4240 −0.464
0.4261 −0.478
0.4282 −0.492
0.4295 −0.493
0.4337 −0.521
0.4347 −0.542
0.4361 −0.556
0.4406 −0.585
0.4427 −0.593
0.4441 −0.617
0.4462 −0.642
0.4500 −0.671
0.4514 −0.680
0.4528 −0.690
0.4577 −0.725
0.4594 −0.737
0.4604 −0.749
0.4650 −0.758
0.4670 −0.761
0.4684 −0.759
0.4719 −0.752
0.4740 −0.750
0.4761 −0.745
0.4802 −0,731
0.4823 −0.728
0.4844 −0.726
0.4886 −0.697
0.4906 −0.687
0.4927 −0.682
0.4980 −0.646

2439725 +
0.3833 −0.274
0.3844 −0.300
0.3854 −0.318
0.3892 −0.385
0.3903 −0.410
0.3913 −0.428
0.3944 −0.476
0.3958 −0.488
0.3972 −0.484
0.4003 −0.510
0.4021 −0.536
0.4031 −0.549
0.4073 −0.578
0.4090 −0.602
0.4108 −0.625
0.4156 −0.670
0.4170 −0.690
0.4184 −0.693
0.4226 −0.731
0.4236 −0.735
0.4253 −0.738
0.4295 −0.757
0.4316 −0.756
0.4330 −0.750
0.4371 −0.750
0.4385 −0.752
0.4427 −0.747
0.4448 −0.743
0.4462 −0.737
0.4531 −0.741
0.4566 −0.726
0.4587 −0.724

2439733 +
0.3099 −0.095
0.3120 −0.131
0.3217 −0.348
0.3231 −0.398
0.3262 −0.443
0.3272 −0.478
0.3283 −0.487
0.3316 −0.554
0.3335 −0.598
0.3370 −0.656
0.3380 −0.669
0.3390 −0.670
0.3422 −0.728
0.3432 −0.745
0.3442 −0.756
0.3481 −0.806
0.3491 −0.810
0.3502 −0.811
0.3533 −0.840
0.3547 −0.852
0.3557 −0.857
0.3592 −0.878
0.3602 −0.880
0.3616 −0.881
0.3661 −0.883
0.3740 −0.881
0.3790 −0.846
0.3800 −0.828
0.3811 −0.828
0.3852 −0.795
0.3863 −0.778
0.3880 −0.769
0.3918 −0.743
0.3932 −0.735
0.3995 −0.707
0.4015 −0.692

2439737 +
0.3077 −0.745
0.3105 −0.753
0.3112 −0.776
0.3119 −0.775
0.3150 −0.782
0.3164 −0.801
0.3175 −0.802
0.3206 −0.808
0.3223 −0.824
0.3230 −0.831
0.3248 −0.842
0.3286 −0.863
0.3296 −0.863
0.3314 −0.880
0.3355 −0.881
0.3369 −0.879
0.3380 −0.872
0.3414 −0.860
0.3428 −0.842
0.3438 −0.839

0.3498 −0.809
0.3511 −0.813
0.3550 −0.802
0.3560 −0.780
0.3570 −0.785
0.3605 −0.759
0.3616 −0.751
0.3626 −0.747
0.3668 −0.720
0.3682 −0.719
0.3713 −0.683
0.3727 −0.678

2439758 +
0.2616 −0.425
0.2630 −0.437
0.2644 −0.469
0.2679 −0.485
0.2693 −0.487
0.2706 −0.509
0.2734 −0.512
0.2745 −0.529
0.2758 −0.546
0.2786 −0.556
0.2798 −0.564
0.2810 −0.564
0.2844 −0.599
0.2856 −0.598
0.2869 −0.602
0.2902 −0.637
0.2915 −0.638
0.2926 −0.643
0.2960 −0.669
0.2973 −0.679
0.2987 −0.683
0.3020 −0.688
0.3032 −0.681
0.3044 −0.693
0.3079 −0.690
0.3094 −0.687
0.3107 −0.695
0.3160 −0.696
0.3172 −0.691
0.3187 −0.691
0.3219 −0.686
0.3233 −0.682
0.3254 −0.686
0.3281 −0.677
0.3296 −0.662
0.3311 −0.655
0.3358 −0.650
0.3378 −0.631
0.3393 −0.632

2439762 +
0.2509 −0.541
0.2561 −0.582
0.2599 −0.630
0.2620 −0.645
0.2665 −0.682
0.2679 −0.689
0.2707 −0.694
0.2721 −0.698
0.2735 −0.698
0.2762 −0.715
0.2790 −0.724
0.2818 −0.736
0.2874 −0.763
0.2887 −0.764
0.2901 −0.765
0.2936 −0.752
0.3035 −0.731
0.3054 −0.723

2439763 +
0.3453 +0.006
0.3463 −0.016
0.3474 −0.052
0.3501 −0.093
0.3512 −0.124
0.3522 −0.157
0.3550 −0.198
0.3560 −0.230
0.3571 −0.252
0.3592 −0.288
0.3602 −0.306
0.3612 −0.321
0.3644 −0.358
0.3654 −0.380
0.3664 −0.392
0.3691 −0.418
0.3706 −0.427
0.3744 −0.453
0.3751 −0.465
0.3776 −0.485
0.3800 −0.502
0.3821 −0.526
0.3831 −0.526
0.3845 −0.534
0.3873 −0.570
0.3883 −0.583
0.3894 −0.601
0.3918 −0.628
0.3939 −0.647
0.3967 −0.654
0.3980 −0.665
0.3991 −0.680
0.4031 −0.705
0.4057 −0.718
0.4098 −0.739
0.4119 −0.739
0.4140 −0.747
0.4182 −0.750
0.4196 −0.751
0.4210 −0.742
0.4244 −0.743
0.4279 −0.734
0.4328 −0.720
0.4342 −0.716

2439775 +
0.2514 +0.071
0.2524 +0.045
0.2562 −0.013
0.2573 −0.026
0.2583 −0.077
0.2614 −0.154
0.2632 −0.202
0.2681 −0.332
0.2701 −0.388
0.2736 −0.453
0.2757 −0.494
0.2778 −0.515
0.2910 −0.767
0.2920 −0.769
0.2930 −0.776
0.2951 −0.822
0.2972 −0.862
0.3014 −0.889
0.3024 −0.882
0.3062 −0.907
0.3073 −0.913
0.3115 −0.928
0.3125 −0.921
0.3153 −0.929
0.3163 −0.922
0.3173 −0.916
0.3198 −0.900
0.3208 −0.907
0.3219 −0.897
0.3243 −0.895
0.3253 −0.890
0.3264 −0.875
0.3288 −0.871
0.3298 −0.857
0.3309 −0.846
0.3337 −0.818
0.3347 −0.804
0.3358 −0.799
0.3378 −0.784
0.3389 −0.775
0.3399 −0.758

2439779 +
0.2318 −0.326
0.2339 −0.394
0.2359 −0.469
0.2582 −0.830
0.2637 −0.866
0.2648 −0.888
0.2689 −0.903
0.2700 −0.889
0.2714 −0.894
0.2741 −0.910
0.2752 −0.910
0.2787 −0.883
0.2842 −0.886
0.2852 −0.883
0.2866 −0.885
0.2891 −0.877
0.2901 −0.881
0.2912 −0.878

2439780 +
0.3696 −0.398
0.3713 −0.473
0.3731 −0.548
0.4127 −0.896
0.4140 −0.872
0.4213 −0.852
0.4224 −0.840
0.4255 −0.827

2439784 +
0.3234 −0.213
0.3262 −0.310
0.3293 −0.372
0.3307 −0.405
0.3324 −0.455
0.3359 −0.534
0.3373 −0.557
0.3387 −0.601
0.3422 −0.643
0.3436 −0.649
0.3456 −0.683
0.3512 −0.722
0.3533 −0.746
0.3554 −0.781
0.3595 −0.819
0.3616 −0.831
0.3686 −0.852
0.3706 −0.864
0.3727 −0.855
0.3769 −0.846
0.3790 −0.830
0.3810 −0.835
0.3852 −0.819
0.3873 −0.811
0.3890 −0.789
0.3936 −0.768
0.3963 −0.756
0.4005 −0.724
0.4019 −0.715
0.4033 −0.717
0.4071 −0.706
0.4085 −0.693

2439963 +
0.4764 −0.524
0.4785 −0.547
0.4806 −0.557
0.4868 −0.597
0.4889 −0.621
0.4993 −0.667
0.5056 −0.712
0.5077 −0.718
0.5150 −0.720
0.5181 −0.722
0.5222 −0.718
0.5234 −0.717
0.5306 −0.690
0.5327 −0.684
0.5389 −0.675
0.5410 −0.671
0.5431 −0.652
0.5472 −0.628
0.5493 −0.631
0.5514 −0.616
0.5556 −0.589
0.5577 −0.583
0.5597 −0.576

2439993 +
0.5324 −0.767
0.5345 −0.756
0.5387 −0.734
0.5408 −0.719
0.5456 −0.689
0.5477 −0.697
0.5526 −0.647
0.5547 −0.631
0.5595 −0.627
0.5616 −0.589

2440013 +
0.3589 −0.578
0.3610 −0.643
0.3630 −0.674
0.3672 −0.777
0.3714 −0.849
0.3776 −0.902
0.3797 −0.910
0.3839 −0.915
0.3860 −0.918
0.3922 −0.920
0.3943 −0.905
0.3964 −0.893
0.4005 −0.880
0.4026 −0.884
0.4047 −0.858
0.4089 −0.848
0.4110 −0.833
0.4130 −0.820
0.4172 −0.799
0.4193 −0.770
0.4214 −0.762

2440014 +
0.4672 −0.134
0.4693 −0.193
0.4714 −0.227
0.4756 −0.323
0.4784 −0.362
0.4804 −0.382
0.4846 −0.454
0.4867 −0.499
0.4888 −0.551
0.4929 −0.639
0.4950 −0.687
0.4971 −0.727
0.5020 −0.795
0.5041 −0.830
0.5061 −0.855
0.5110 −0.900
0.5131 −0.906
0.5152 −0.917
0.5200 −0.928
0.5221 −0.915
0.5242 −0.915
0.5284 −0.892

0.5304 −0.892
0.5325 −0.880
0.5381 −0.856
0.5402 −0.833
0.5422 −0.824
0.5471 −0.797
0.5492 −0.776

2440031 +
0.4633 −0.569
0.4716 −0.757
0.4758 −0.789
0.4779 −0.809
0.4820 −0.855
0.4841 −0.858
0.4945 −0.864
0.4966 −0.857
0.5008 −0.830
0.5029 −0.832

2440035 +
0.4072 −0.093
0.4093 −0.099
0.4135 −0.173
0.4156 −0.198
0.4197 −0.264
0.4218 −0.316
0.4271 −0.419
0.4322 −0.520
0.4343 −0.549
0.4399 −0.619
0.4454 −0.658
0.4475 −0.686
0.4517 −0.711
0.4538 −0.733
0.4579 −0.741
0.4600 −0.742
0.4642 −0.750
0.4663 −0.751
0.4704 −0.741
0.4725 −0.724
0.4767 −0.689
0.4788 −0.679
0.4829 −0.659
0.4850 −0.657
0.4892 −0.625
0.4913 −0.620

2440039 +
0.3732 +0.113
0.3753 +0.074
0.3795 +0.016
0.3815 −0.019
0.3857 −0.162
0.3878 −0.201
0.3920 −0.281
0.3940 −0.346
0.4003 −0.500
0.4045 −0.541
0.4065 −0.551
0.4107 −0.587
0.4128 −0.604
0.4177 −0.628
0.4197 −0.639
0.4239 −0.646
0.4260 −0.670
0.4312 −0.680
0.4572 −0.666
0.4593 −0.674
0.4635 −0.656
0.4656 −0.647
0.4697 −0.621
0.4718 −0.619

2440043 +
0.3679 −0.322
0.3700 −0.346
0.3734 −0.396
0.3755 −0.416
0.3790 −0.436
0.3808 −0.458
0.3835 −0.464
0.3849 −0.453
0.3877 −0.468
0.3891 −0.463
0.3919 −0.468
0.3932 −0.474
0.3960 −0.477
0.3974 −0.488
0.4002 −0.485
0.4016 −0.495
0.4044 −0.519
0.4058 −0.530
0.4085 −0.539
0.4099 −0.545
0.4127 −0.577
0.4141 −0.569
0.4169 −0.592
0.4182 −0.590
0.4210 −0.613
0.4224 −0.627
0.4252 −0.627
0.4266 −0.626
0.4294 −0.647
0.4308 −0.638
0.4335 −0.642
0.4349 −0.650
0.4380 −0.656
0.4401 −0.641
0.4432 −0.650
0.4446 −0.650
0.4474 −0.636
0.4491 −0.620
0.4523 −0.612
0.4537 −0.614
0.4571 −0.614
0.4585 −0.612
0.4613 −0.592
0.4627 −0.594
0.4662 −0.581
0.4676 −0.574

2440052 +
0.4174 +0.240
0.4195 +0.228
0.4236 +0.194
0.4257 +0.184
0.4299 +0.133
0.4320 +0.112
0.4616 −0.397
0.4667 −0.468
0.4688 −0.495
0.4729 −0.536
0.4750 −0.575
0.4792 −0.628
0.4813 −0.655
0.4854 −0.714
0.4875 −0.719
0.4917 −0.793
0.4934 −0.797
0.4979 −0.804
0.5000 −0.813
0.5042 −0.825
0.5063 −0.834
0.5104 −0.820
0.5125 −0.827
0.5167 −0.811
0.5188 −0.807

2440060 +
0.4040 −0.844
0.4054 −0.870
0.4082 −0.888
0.4096 −0.917
0.4123 −0.931
0.4137 −0.943
0.4165 −0.963
0.4179 −0.964
0.4207 −0.952
0.4221 −0.958
0.4248 −0.961
0.4262 −0.953
0.4290 −0.940
0.4304 −0.939
0.4332 −0.912
0.4346 −0.913
0.4373 −0.903
0.4387 −0.887
0.4415 −0.875
0.4429 −0.862
0.4457 −0.852
0.4471 −0.835

2440069 +
0.4339 −0.328
0.4353 −0.364
0.4381 −0.463
0.4395 −0.494
0.4915 −0.824
0.4929 −0.821
0.4957 −0.811
0.4971 −0.798
0.5012 −0.787
0.5040 −0.763
0.5054 −0.769
0.5082 −0.744
0.5096 −0.719

2440077 +
0.3542 +0.031
0.3563 −0.002
0.3841 −0.664
0.3862 −0.683

2440353 +
0.4569 −0.907
0.4590 −0.909
0.4680 −0.854
0.4735 −0.849
0.4759 −0.819
0.4770 −0.819
0.4794 −0.815
0.4805 −0.808
0.4815 −0.803
0.4860 −0.776
0.4909 −0.731
0.4930 −0.734
0.4950 −0.733
0.4992 −0.685
0.5006 −0.682
0.5016 −0.673
0.5048 −0.649
0.5062 −0.639
0.5075 −0.631
0.5120 −0.599
0.5148 −0.577
0.5176 −0.577
0.5190 −0.566
0.5204 −0.577
0.5247 −0.539
0.5328 −0.485
0.5346 −0.473
0.5360 −0.471
0.5384 −0.446
0.5395 −0.448
0.5409 −0.442

2440357 +
0.3764 −0.275
0.3785 −0.332
0.3826 −0.466
0.3847 −0.513
0.3889 −0.574
0.3910 −0.622
0.3951 −0.678
0.3972 −0.733
0.4021 −0.797
0.4042 −0.830
0.4083 −0.855
0.4146 −0.873
0.4167 −0.869
0.4208 −0.862
0.4229 −0.865
0.4271 −0.827
0.4292 −0.823

2440366 +
0.4294 +0.161
0.4315 +0.122
0.4357 +0.040
0.4378 +0.016
0.4419 −0.103
0.4440 −0.139
0.4482 −0.228
0.4503 −0.278
0.4544 −0.396
0.4565 −0.453
0.4607 −0.522
0.4628 −0.542
0.4669 −0.599
0.4690 −0.609
0.4743 −0.636
0.4794 −0.659
0.4868 −0.678
0.4930 −0.697
0.4982 −0.697
0.5003 −0.692
0.5044 −0.687
0.5065 −0.695
0.5107 −0.694

2440404 +
0.4009 +0.156
0.4030 +0.140
0.4071 +0.110
0.4092 +0.081
0.4134 −0.029
0.4155 −0.061
0.4196 −0.165
0.4217 −0.225
0.4259 −0.349
0.4280 −0.406
0.4321 −0.502
0.4384 −0.599
0.4405 −0.627
0.4467 −0.711
0.4509 −0.727
0.4530 −0.743
0.4571 −0.757
0.4592 −0.778
0.4634 −0.779
0.4655 −0.781
0.4696 −0.779
0.4717 −0.779
0.4759 −0.770
0.4780 −0.760
0.4821 −0.736
0.4842 −0.733
0.4884 −0.718
0.4905 −0.718
0.4936 −0.690
0.4949 −0.689

2440417 +
0.4495 +0.184
0.4516 +0.174
0.4558 +0.156
0.4578 +0.124
0.4620 +0.067
0.4641 +0.026

0.4683 −0.050
0.4703 −0.089
0.4745 −0.171
0.4766 −0.216
0.4808 −0.288
0.4828 −0.316
0.4870 −0.362
0.4891 −0.371
0.4933 −0.399
0.4953 −0.405
0.4995 −0.448
0.5016 −0.451
0.5058 −0.489
0.5078 −0.511
0.5120 −0.579
0.5141 −0.601
0.5183 −0.648
0.5203 −0.673
0.5245 −0.730
0.5266 −0.745
0.5308 −0.761
0.5328 −0.758
0.5370 −0.775
0.5391 −0.769
0.5433 −0.759
0.5453 −0.767
0.5495 −0.766
0.5516 −0.764
0.5558 −0.736
0.5578 −0.720
0.5620 −0.704
0.5641 −0.698

2440454 +
0.3523 −0.558
0.3544 −0.569
0.3585 −0.587
0.3606 −0.607
0.3648 −0.632
0.3669 −0.672

2440471 +
0.3410 −0.721
0.3431 −0.756
0.3473 −0.822
0.3494 −0.839
0.3535 −0.884
0.3556 −0.903
0.3598 −0.922
0.3619 −0.934
0.3660 −0.949
0.3681 −0.936
0.3723 −0.923
0.3744 −0.916
0.3785 −0.882
0.3806 −0.883
0.3848 −0.854
0.3869 −0.840

2440501 +
0.4042 −0.635
0.4056 −0.654
0.4100 −0.705
0.4114 −0.709
0.4180 −0.760
0.4211 −0.772
0.4232 −0.789
0.4274 −0.790
0.4295 −0.778
0.4336 −0.780
0.4410 −0.775
0.4461 −0.760
0.4524 −0.743
0.4586 −0.687

2440710 +
0.4677 +0.275
0.4698 +0.281
0.4739 +0.267
0.4760 +0.255
0.4802 +0.259
0.4823 +0.272
0.4875 +0.268
0.4938 +0.267
0.4989 +0.230
0.5010 +0.215
0.5052 +0.169
0.5073 +0.165
0.5125 +0.092
0.5177 +0.020
0.5198 −0.014
0.5239 −0.114
0.5260 −0.149
0.5302 −0.274
0.5323 −0.327
0.5364 −0.449
0.5448 −0.577
0.5489 −0.618
0.5510 −0.632
0.5552 −0.703
0.5625 −0.790
0.5739 −0.899
0.5760 −0.902

2440731 +
0.4672 +0.089
0.4693 +0.078
0.4734 −0.021
0.4755 −0.056
0.4797 −0.206
0.4818 −0.265
0.4859 −0.400
0.4880 −0.464
0.4922 −0.561
0.4943 −0.603
0.4984 −0.673
0.5005 −0.716
0.5047 −0.741
0.5068 −0.752
0.5109 −0.790
0.5130 −0.792
0.5172 −0.802
0.5193 −0.805
0.5234 −0.812
0.5255 −0.816
0.5297 −0.812
0.5318 −0.797
0.5359 −0.784
0.5380 −0.776

2440752 +
0.4364 +0.250
0.4436 +0.223
0.4478 +0.202
0.4499 +0.195
0.4540 +0.125
0.4603 +0.032
0.4624 −0.011
0.4665 −0.083
0.4686 −0.139
0.4728 −0.258
0.4749 −0.315
0.4790 −0.397
0.4811 −0.452
0.4853 −0.499
0.4874 −0.546
0.4915 −0.636
0.4936 −0.640
0.4978 −0.733
0.4999 −0.758
0.5040 −0.817
0.5061 −0.834
0.5103 −0.863
0.5124 −0.880
0.5186 −0.906
0.5228 −0.924
0.5249 −0.914
0.5290 −0.901
0.5311 −0.890
0.5353 −0.860
0.5374 −0.860

2440798 +
0.3714 −0.123
0.3735 −0.158
0.3777 −0.296
0.3798 −0.385
0.3930 −0.717
0.3951 −0.747
0.4027 −0.832
0.4048 −0.851
0.4089 −0.906
0.4110 −0.917
0.4152 −0.923
0.4173 −0.948
0.4214 −0.966
0.4242 −0.941
0.4277 −0.944

2440837 +
0.5092 −0.686
0.5113 −0.731
0.5155 −0.804
0.5176 −0.821
0.5217 −0.883
0.5238 −0.895
0.5280 −0.922
0.5301 −0.932
0.5342 −0.937
0.5363 −0.935
0.5406 −0.932
0.5488 −0.865
0.5551 −0.834
0.5572 −0.808

2440841 +
0.4225 +0.208
0.4246 +0.198
0.4275 +0.157
0.4329 +0.138
0.4385 +0.064
0.4406 +0.014
0.4475 −0.154
0.4496 −0.201
0.4552 −0.388
0.4573 −0.435
0.4628 −0.574
0.4698 −0.700
0.4719 −0.768
0.4778 −0.853
0.4836 −0.932
0.4857 −0.958
0.4934 −0.958
0.4955 −0.962
0.4996 −0.949
0.5017 −0.941
0.5066 −0.901
0.5087 −0.881
0.5142 −0.845
0.5184 −0.819

2440866 +
0.4037 −0.311
0.4051 −0.344
0.4065 −0.349
0.4090 −0.401
0.4104 −0.396
0.4118 −0.419
0.4148 −0.427
0.4162 −0.435
0.4210 −0.462
0.4224 −0.476
0.4238 −0.499
0.4266 −0.524
0.4280 −0.539
0.4294 −0.564
0.4322 −0.622
0.4336 −0.627
0.4377 −0.662
0.4391 −0.683
0.4405 −0.693
0.4551 −0.767
0.4565 −0.782
0.4579 −0.810
0.4606 −0.819
0.4634 −0.804
0.4662 −0.804
0.4676 −0.784
0.4690 −0.776
0.4717 −0.771
0.4731 −0.766
0.4745 −0.760
0.4772 −0.731
0.4786 −0.733
0.4800 −0.720

2440870 +
0.3294 +0.301
0.3308 +0.289
0.3322 +0.282
0.3349 +0.267
0.3363 +0.259
0.3377 +0.250
0.3405 +0.239
0.3419 +0.226
0.3433 +0.230
0.3467 +0.205
0.3481 +0.193
0.3495 +0.161
0.3516 +0.133
0.3530 +0.103
0.3544 +0.072
0.3572 +0.032
0.3586 +0.017
0.3627 −0.082
0.3641 −0.095
0.3655 −0.109
0.3683 −0.182
0.3697 −0.214
0.3711 −0.258
0.3738 −0.303
0.3752 −0.330
0.3766 −0.350
0.3794 −0.377
0.3808 −0.393
0.3822 −0.420
0.3850 −0.461
0.3864 −0.470
0.3878 −0.507
0.3912 −0.554
0.3926 −0.560
0.3940 −0.581
0.3967 −0.591
0.3981 −0.629
0.3995 −0.643
0.4030 −0.670
0.4044 −0.681
0.4058 −0.699
0.4085 −0.747
0.4099 −0.772
0.4113 −0.784
0.4148 −0.809
0.4162 −0.821
0.4176 −0.828
0.4203 −0.841
0.4217 −0.838
0.4231 −0.826
0.4266 −0.836
0.4280 −0.824
0.4294 −0.821

Table 4.

0.4321 −0.827
0.4335 −0.828
0.4349 −0.823

2440878 +
0.2831 +0.132
0.2852 +0.118
0.2894 +0.043
0.2956 −0.050
0.2977 −0.085
0.3019 −0.197
0.3040 −0.262
0.3081 −0.376
0.3102 −0.424
0.3165 −0.544
0.3206 −0.647
0.3227 −0.670
0.3269 −0.773
0.3290 −0.786
0.3331 −0.843
0.3352 −0.845
0.3415 −0.902
0.3456 −0.908
0.3477 −0.900
0.3526 −0.894
0.3547 −0.890
0.3581 −0.875
0.3602 −0.862
0.3644 −0.857
0.3665 −0.857
0.3706 −0.820
0.3727 −0.820

2441024 +
0.5506 −0.503
0.5520 −0.515
0.5536 −0.557
0.5555 −0.575
0.5567 −0.588
0.5578 −0.599
0.5602 −0.617
0.5612 −0.612
0.5625 −0.639
0.5647 −0.655
0.5658 −0.669
0.5668 −0.683
0.5689 −0.700
0.5696 −0.697
0.5705 −0.694
0.5729 −0.708
0.5739 −0.710
0.5750 −0.728
0.5772 −0.742
0.5782 −0.731
0.5791 −0.733
0.5813 −0.747
0.5822 −0.746
0.5831 −0.741
0.5852 −0.757
0.5862 −0.747
0.5870 −0.755
0.5893 −0.763
0.5904 −0.768
0.5913 −0.772
0.5935 −0.767
0.5946 −0.781
0.5958 −0.765
0.5978 −0.7[illegible]
0.5988 −0.754
0.6029 −0.731
0.6040 −0.750
0.6062 −0.748
0.6073 −0.725
0.6084 −0.733
0.6117 −0.722
0.6165 −0.700
0.6176 −0.698
0.6184 −0.690
0.6206 −0.672
0.6215 −0.678
0.6226 −0.667
0.6248 −0.655
0.6258 −0.662
0.6270 −0.656
0.6290 −0.641
0.6304 −0.629
0.6316 −0.614
0.6340 −0.609
0.6351 −0.609
0.6360 −0.610
0.6392 −0.589
0.6402 −0.587
0.6416 −0.581

2441054 +
0.5428 +0.229
0.5441 +0.232
0.5452 +0.209
0.5483 +0.196
0.5498 +0.185
0.5512 +0.161
0.5557 +0.129
0.5571 +0.116
0.5599 +0.087
0.5611 +0.065
0.5624 +0.055
0.5654 −0.023
0.5666 −0.037
0.5679 −0.056
0.5709 −0.143
0.5721 −0.172
0.5734 −0.194
0.5759 −0.272
0.5771 −0.296
0.5782 −0.346
0.5812 −0.401
0.5824 −0.422
0.5836 −0.468
0.5864 −0.512
0.5877 −0.528
0.5888 −0.559
0.5916 −0.602
0.5929 −0.604
0.5940 −0.626

2441057 +
0.4452 −0.823
0.4465 −0.823
0.4502 −0.833
0.4514 −0.846
0.4529 −0.849
0.4563 −0.842
0.4574 −0.840
0.4588 −0.836
0.4622 −0.815
0.4631 −0.804
0.4653 −0.808
0.4688 −0.804
0.4702 −0.802
0.4717 −0.793
0.4746 −0.762
0.4762 −0.761
0.4785 −0.744
0.4821 −0.743
0.4840 −0.731
0.4853 −0.724
0.4888 −0.702
0.4902 −0.688
0.4916 −0.682
0.4941 −0.678
0.4952 −0.668
0.4963 −0.665
0.4993 −0.645
0.5008 −0.643
0.5023 −0.633
0.5049 −0.625
0.5059 −0.614
0.5076 −0.617

2441062 +
0.4711 +0.257
0.4727 +0.252
0.4740 +0.240
0.4752 +0.221
0.4787 +0.202
0.4800 +0.203
0.4816 +0.203
0.4883 +0.161
0.4897 +0.157
0.4909 +0.131
0.4940 +0.103
0.4953 +0.084
0.4965 +0.073
0.4975 +0.053
0.5023 −0.034
0.5056 −0.084
0.5087 −0.193
0.5098 −0.210
0.5130 −0.291
0.5142 −0.312
0.5187 −0.420
0.5197 −0.456
0.5222 −0.481
0.5232 −0.514
0.5259 −0.526
0.5271 −0.548
0.5300 −0.564
0.5310 −0.594
0.5333 −0.624
0.5340 −0.618
0.5350 −0.636
0.5381 −0.685
0.5394 −0.692
0.5417 −0.706
0.5427 −0.707
0.5454 −0.745
0.5462 −0.754
0.5490 −0.774
0.5498 −0.758
0.5526 −0.774
0.5536 −0.790
0.5562 −0.805
0.5570 −0.807
0.5602 −0.804
0.5610 −0.801
0.5634 −0.794
0.5644 −0.794
0.5667 −0.793
0.5675 −0.802
0.5705 −0.792
0.5719 −0.783
0.5738 −0.770
0.5748 −0.764
0.5791 −0.748
0.5825 −0.714
0.5862 −0.711

2441070 +
0.4256 +0.188
0.4267 +0.193
0.4289 +0.153
0.4298 +0.114
0.4307 +0.102
0.4328 +0.066
0.4338 +0.029
0.4348 +0.021
0.4373 −0.027
0.4383 −0.028
0.4393 −0.025
0.4415 −0.087
0.4425 −0.119
0.4436 −0.116
0.4459 −0.196
0.4478 −0.219
0.4500 −0.255
0.4512 −0.292
0.4521 −0.309
0.4543 −0.372
0.4553 −0.390
0.4563 −0.403
0.4584 −0.450
0.4594 −0.472
0.4605 −0.465
0.4629 −0.507
0.4668 −0.556
0.4680 −0.561
0.4691 −0.566
0.4714 −0.586
0.4724 −0.606
0.4735 −0.612
0.4755 −0.626
0.4765 −0.637
0.4784 −0.649
0.4801 −0.665
0.4811 −0.683
0.4821 −0.689
0.4844 −0.700
0.4855 −0.711
0.4865 −0.708
0.4891 −0.750
0.4910 −0.764
0.4928 −0.767
0.4947 −0.763
0.4960 −0.779
0.4971 −0.784
0.4998 −0.777
0.5010 −0.785
0.5037 −0.798
0.5047 −0.787
0.5069 −0.768
0.5079 −0.767
0.5103 −0.775
0.5114 −0.762
0.5139 −0.760
0.5149 −0.759
0.5173 −0.762
0.5185 −0.741
0.5209 −0.727
0.5219 −0.733
0.5243 −0.728
0.5253 −0.727
0.5279 −0.708
0.5290 −0.709
0.5314 −0.685
0.5325 −0.681
0.5350 −0.674
0.5360 −0.674
0.5384 −0.656
0.5394 −0.656

2441083 +
0.4523 +0.226
0.4537 +0.225
0.4550 +0.212
0.4561 +0.216
0.4585 +0.201
0.4596 +0.179
0.4608 +0.178
0.4619 +0.184
0.4642 +0.160
0.4652 +0.156
0.4662 +0.143
0.4672 +0.134
0.4697 +0.099
0.4707 +0.078
0.4719 +0.071
0.4731 +0.046
0.4758 −0.019
0.4770 −0.021
0.4781 −0.039

0.4793 −0.088
0.4816 −0.137
0.4829 −0.174
0.4840 −0.210
0.4851 −0.243
0.4875 −0.300
0.4888 −0.325
0.4899 −0.345
0.4911 −0.369
0.4940 −0.422
0.4953 −0.444
0.4963 −0.473
0.4976 −0.475
0.5002 −0.515
0.5014 −0.527
0.5025 −0.541
0.5037 −0.560
0.5065 −0.588
0.5079 −0.604
0.5090 −0.619
0.5101 −0.644
0.5125 −0.667
0.5137 −0.685
0.5149 −0.707
0.5161 −0.726
0.5187 −0.748
0.5198 −0.766
0.5210 −0.765
0.5222 −0.783
0.5250 −0.790
0.5262 −0.795
0.5274 −0.805
0.5286 −0.823
0.5309 −0.834
0.5319 −0.833
0.5332 −0.833
0.5343 −0.840
0.5367 −0.841
0.5378 −0.840
0.5389 −0.840
0.5401 −0.838
0.5428 −0.829
0.5440 −0.824
0.5453 −0.813
0.5463 −0.804
0.5488 −0.795
0.5499 −0.788
0.5509 −0.789
0.5520 −0.783
0.5552 −0.770
0.5565 −0.766
0.5575 −0.753
0.5587 −0.763
0.5605 −0.759
0.5617 −0.752
0.5627 −0.749

2441091 +
0.4075 +0.064
0.4085 +0.040
0.4095 +0.025
0.4106 +0.003

0.4128 −0.085
0.4138 −0.104
0.4157 −0.157
0.4186 −0.199
0.4197 −0.235
0.4206 −0.247
0.4219 −0.267
0.4245 −0.354

2441092 +
0.5216 +0.231
0.5232 +0.215
0.5256 +0.208
0.5274 +0.195
0.5311 +0.168
0.5327 +0.148
0.5345 +0.135
0.5361 +0.118
0.5394 +0.046
0.5426 −0.021
0.5441 −0.046
0.5474 −0.128
0.5489 −0.172
0.5506 −0.189
0.5522 −0.224
0.5558 −0.307
0.5575 −0.342
0.5592 −0.385
0.5609 −0.407
0.5646 −0.495
0.5671 −0.522
0.5687 −0.555

2441095 +
0.3737 +0.048
0.3751 +0.014
0.3766 −0.005
0.3782 −0.043
0.3814 −0.107
0.3829 −0.155
0.3844 −0.180
0.3858 −0.221
0.3892 −0.306
0.3907 −0.331
0.3924 −0.380
0.3940 −0.400
0.3969 −0.496
0.3984 −0.526
0.4000 −0.566

2441108 +
0.3963 +0.223
0.3976 +0.201
0.3986 +0.193
0.4011 +0.150
0.4034 +0.131
0.4045 +0.104
0.4071 +0.090
0.4083 +0.063
0.4094 +0.046
0.4104 +0.032
0.4129 −0.016

0.4139 −0.030
0.4150 −0.040
0.4160 −0.077
0.4186 −0.134
0.4197 −0.168
0.4210 −0.206
0.4222 −0.226
0.4247 −0.279
0.4259 −0.310
0.4269 −0.347
0.4280 −0.366
0.4307 −0.408
0.4318 −0.426
0.4328 −0.470
0.4341 −0.491
0.4364 −0.525
0.4376 −0.537
0.4386 −0.555
0.4396 −0.563
0.4420 −0.599
0.4431 −0.605
0.4441 −0.614
0.4452 −0.623
0.4479 −0.634
0.4491 −0.653
0.4502 −0.665
0.4515 −0.673
0.4542 −0.694
0.4555 −0.711
0.4568 −0.722
0.4580 −0.720
0.4607 −0.749
0.4619 −0.756
0.4632 −0.767
0.4649 −0.788
0.4675 −0.795
0.4688 −0.803
0.4700 −0.807
0.4711 −0.814
0.4739 −0.815
0.4751 −0.818
0.4764 −0.809
0.4776 −0.815
0.4806 −0.813
0.4817 −0.801
0.4827 −0.799
0.4838 −0.795
0.4864 −0.789
0.4877 −0.782
0.4889 −0.768
0.4900 −0.758
0.4927 −0.741
0.4938 −0.738
0.4950 −0.731
0.4961 −0.741
0.4989 −0.718
0.5001 −0.722
0.5014 −0.716
0.5025 −0.697

2441117 +
0.4814 −0.035

0.4835 −0.058
0.4856 −0.088
0.4877 −0.131
0.4918 −0.254
0.4937 −0.305
0.4958 −0.345
0.4979 −0.376

2441142 +
0.4216 +0.008
0.4226 −0.002
0.4237 −0.039
0.4248 −0.061
0.4274 −0.124
0.4285 −0.145
0.4297 −0.191
0.4306 −0.221
0.4330 −0.290
0.4342 −0.319
0.4352 −0.352
0.4362 −0.367
0.4386 −0.429
0.4397 −0.446
0.4406 −0.461
0.4416 −0.482
0.4445 −0.530
0.4459 −0.557
0.4475 −0.578
0.4485 −0.586
0.4512 −0.628
0.4523 −0.647
0.4537 −0.672
0.4548 −0.685
0.4577 −0.713
0.4591 −0.735
0.4602 −0.749
0.4613 −0.753
0.4651 −0.799
0.4663 −0.800
0.4673 −0.803
0.4684 −0.799
0.4746 −0.837
0.4760 −0.834
0.4772 −0.841
0.4785 −0.845
0.4823 −0.851
0.4833 −0.846
0.4847 −0.845
0.4859 −0.847
0.4884 −0.836
0.4896 −0.829
0.4907 −0.818
0.4919 −0.811
0.4944 −0.810
0.4956 −0.798
0.4968 −0.798
0.4979 −0.798
0.5008 −0.787
0.5020 −0.779

2441147 +
0.5199 +0.025

0.5210 +0.019
0.5223 −0.012
0.5233 −0.043
0.5263 −0.102
0.5273 −0.134
0.5285 −0.162
0.5296 −0.186
0.5323 −0.263
0.5333 −0.288
0.5344 −0.305
0.5354 −0.336
0.5378 −0.396
0.5389 −0.423
0.5402 −0.454
0.5413 −0.489
0.5439 −0.516
0.5452 −0.539
0.5465 −0.549
0.5475 −0.565

2441155 +
0.4480 +0.123
0.4490 +0.109
0.4499 +0.092
0.4508 +0.082
0.4535 +0.048
0.4548 +0.027
0.4559 +0.001
0.4568 −0.016
0.4588 −0.058
0.4598 −0.079
0.4607 −0.086
0.4616 −0.100
0.4640 −0.147
0.4650 −0.186
0.4660 −0.210
0.4672 −0.241
0.4698 −0.289
0.4708 −0.312
0.4717 −0.344
0.4753 −0.417
0.4764 −0.426
0.4774 −0.441
0.4784 −0.455
0.4813 −0.514
0.4822 −0.524
0.4831 −0.507
0.4869 −0.562
0.4883 −0.599
0.4920 −0.634
0.4929 −0.652
0.4986 −0.676
0.5051 −0.710
0.5060 −0.714
0.5080 −0.720
0.5090 −0.723
0.5114 −0.737
0.5124 −0.731
0.5148 −0.746
0.5157 −0.744
0.5178 −0.758
0.5208 −0.763

0.5218 −0.764
0.5241 −0.756
0.5272 −0.753
0.5282 −0.746
0.5306 −0.736

2441158 +
0.3410 −0.695
0.3421 −0.694
0.3465 −0.732
0.3479 −0.723
0.3505 −0.728
0.3519 −0.728
0.3529 −0.745
0.3552 −0.741
0.3563 −0.733
0.3599 −0.752
0.3613 −0.761
0.3624 −0.755
0.3648 −0.750
0.3659 −0.753
0.3670 −0.756
0.3697 −0.744
0.3709 −0.733
0.3751 −0.711
0.3762 −0.700
0.3775 −0.708
0.3800 −0.716
0.3812 −0.709
0.3823 −0.691
0.3847 −0.672
0.3902 −0.664
0.3914 −0.659
0.3937 −0.646

2441164 +
0.5166 +0.173
0.5173 +0.167
0.5182 +0.159
0.5189 +0.157
0.5197 +0.147
0.5219 +0.118
0.5229 +0.112
0.5238 +0.107
0.5247 +0.095
0.5255 +0.094
0.5276 +0.046
0.5286 +0.038
0.5294 +0.016
0.5304 −0.003
0.5313 −0.023
0.5333 −0.071
0.5342 −0.082
0.5352 −0.093
0.5361 −0.119
0.5370 −0.131
0.5392 −0.181
0.5401 −0.195
0.5409 −0.212
0.5418 −0.230
0.5428 −0.251
0.5452 −0.302

0.5461 −0.314
0.5469 −0.336
0.5477 −0.365
0.5486 −0.384

2441167 +
0.3613 +0.092
0.3623 +0.072
0.3633 +0.046
0.3656 +0.010
0.3674 −0.033
0.3702 −0.078
0.3712 −0.098
0.3721 −0.119
0.3731 −0.154
0.3755 −0.232
0.3765 −0.256
0.3776 −0.282
0.3799 −0.327
0.3815 −0.379
0.3836 −0.408
0.3859 −0.423
0.3869 −0.445
0.3878 −0.450
0.3888 −0.467
0.3921 −0.497
0.3930 −0.502
0.3941 −0.512
0.3951 −0.517
0.3977 −0.557
0.3988 −0.575
0.3997 −0.590
0.4007 −0.607
0.4035 −0.619
0.4048 −0.641
0.4059 −0.675
0.4070 −0.669
0.4091 −0.692
0.4101 −0.706
0.4112 −0.713
0.4149 −0.729
0.4163 −0.738
0.4171 −0.753
0.4182 −0.769
0.4204 −0.772
0.4222 −0.781
0.4239 −0.777
0.4264 −0.790
0.4276 −0.799
0.4286 −0.796
0.4330 −0.801
0.4340 −0.803
0.4351 −0.803
0.4362 −0.792
0.4385 −0.804
0.4397 −0.802
0.4408 −0.798
0.4418 −0.794
0.4442 −0.780
0.4454 −0.771
0.4465 −0.772
0.4476 −0.763

0.4500 −0.767
0.4513 −0.759
0.4524 −0.750
0.4534 −0.741
0.4559 −0.739
0.4569 −0.718
0.4579 −0.715
0.4591 −0.723
0.4615 −0.712
0.4625 −0.707
0.4636 −0.698

2441168 +
0.4707 +0.220
0.4715 +0.216
0.4742 +0.201
0.4752 +0.188
0.4780 +0.197
0.4790 +0.213
0.4836 +0.186
0.4860 +0.177
0.4873 +0.179
0.4900 +0.147
0.4912 +0.114
0.4933 +0.100
0.4942 +0.079
0.4963 +0.044
0.4974 +0.035
0.5000 −0.058
0.5008 −0.069
0.5019 −0.093
0.5056 −0.159
0.5068 −0.205
0.5077 −0.240
0.5127 −0.346
0.5151 −0.377
0.5179 −0.408
0.5189 −0.409
0.5200 −0.437
0.5210 −0.439

2441176 +
0.4200 +0.180
0.4210 +0.178
0.4219 +0.156
0.4245 +0.142
0.4257 +0.137
0.4267 +0.118
0.4298 +0.064
0.4309 +0.048
0.4319 +0.008
0.4329 +0.000
0.4356 −0.047
0.4384 −0.123
0.4395 −0.138
0.4405 −0.160
0.4430 −0.230
0.4440 −0.248
0.4453 −0.258
0.4461 −0.286
0.4486 −0.357
0.4497 −0.386

0.4508 −0.420
0.4518 −0.454
0.4547 −0.495
0.4561 −0.506
0.4571 −0.533
0.4582 −0.546
0.4608 −0.594
0.4619 −0.617
0.4631 −0.630
0.4645 −0.650
0.4676 −0.685
0.4688 −0.701
0.4700 −0.725
0.4711 −0.740
0.4745 −0.774
0.4758 −0.787
0.4769 −0.798
0.4822 −0.859
0.4834 −0.859
0.4847 −0.870
0.4859 −0.861
0.4890 −0.870
0.4900 −0.869
0.4911 −0.858
0.4923 −0.860
0.4950 −0.865
0.4961 −0.869
0.4972 −0.871
0.4982 −0.866
0.5008 −0.856
0.5020 −0.840
0.5032 −0.842
0.5045 −0.845
0.5068 −0.823
0.5078 −0.829
0.5099 −0.813
0.5126 −0.790
0.5138 −0.796
0.5149 −0.783
0.5159 −0.779
0.5185 −0.759

2441179 +
0.3239 −0.882
0.3248 −0.882
0.3260 −0.888
0.3270 −0.886
0.3294 −0.885
0.3306 −0.888
0.3316 −0.880
0.3328 −0.872
0.3353 −0.856
0.3365 −0.855
0.3375 −0.847
0.3383 −0.845
0.3415 −0.824
0.3424 −0.820
0.3434 −0.811
0.3444 −0.809
0.3474 −0.791

2441192 +

0.3442 −0.743
0.3450 −0.751
0.3458 −0.742
0.3466 −0.756
0.3490 −0.763
0.3500 −0.776
0.3510 −0.775
0.3520 −0.779
0.3542 −0.798
0.3552 −0.792
0.3562 −0.794
0.3572 −0.792
0.3595 −0.792
0.3607 −0.807
0.3619 −0.808
0.3631 −0.806

2441205 +
0.3369 +0.093
0.3380 +0.067
0.3391 +0.043
0.3413 −0.007
0.3422 −0.021
0.3431 −0.041
0.3453 −0.083
0.3462 −0.113
0.3470 −0.138
0.3494 −0.183
0.3502 −0.203
0.3510 −0.242
0.3532 −0.260
0.3540 −0.289
0.3549 −0.302
0.3557 −0.319
0.3578 −0.351
0.3587 −0.358
0.3597 −0.373
0.3605 −0.390
0.3626 −0.420
0.3636 −0.425
0.3645 −0.431
0.3654 −0.451
0.3678 −0.466
0.3688 −0.477
0.3698 −0.486
0.3708 −0.492
0.3732 −0.522
0.3742 −0.522
0.3752 −0.532
0.3762 −0.534
0.3787 −0.567
0.3797 −0.585
0.3808 −0.598
0.3816 −0.609
0.3845 −0.643
0.3856 −0.651
0.3865 −0.664
0.3875 −0.667
0.3903 −0.691
0.3916 −0.698
0.3926 −0.702
0.3935 −0.795

0.3960 −0.723
0.3970 −0.724
0.3980 −0.733
0.3990 −0.740
0.4019 −0.750
0.4029 −0.751
0.4038 −0.750
0.4048 −0.760
0.4073 −0.770
0.4083 −0.767
0.4093 −0.766
0.4103 −0.760
0.4129 −0.755
0.4139 −0.758
0.4149 −0.751
0.4159 −0.757
0.4183 −0.757
0.4194 −0.738
0.4204 −0.750
0.4214 −0.747
0.4240 −0.730
0.4251 −0.730
0.4262 −0.726
0.4320 −0.712

2441213 +
0.2704 +0.143
0.2712 +0.125
0.2722 +0.104
0.2749 +0.079
0.2759 +0.050
0.2769 +0.043
0.2778 +0.032
0.2802 −0.016
0.2812 −0.036
0.2822 −0.057
0.2832 −0.072
0.2858 −0.143
0.2871 −0.175
0.2881 −0.204
0.2891 −0.229
0.2917 −0.286
0.2928 −0.316
0.2939 −0.333
0.2949 −0.364
0.2975 −0.393
0.2986 −0.424
0.2996 −0.444
0.3007 −0.464
0.3036 −0.499
0.3048 −0.524
0.3060 −0.540
0.3077 −0.561
0.3105 −0.600
0.3116 −0.614
0.3127 −0.632
0.3138 −0.661
0.3168 −0.690
0.3180 −0.697
0.3191 −0.705
0.3379 −0.872
0.3390 −0.871
0.3399 −0.872
0.3426 −0.872
0.3439 −0.876
0.3450 −0.868
0.3475 −0.873
0.3486 −0.875

2441217 +
0.2493 −0.073
0.2517 −0.134
0.2527 −0.160
0.2535 −0.187
0.2544 −0.209
0.2565 −0.249
0.2573 −0.286
0.2581 −0.306
0.2590 −0.337
0.2614 −0.388
0.2622 −0.415
0.2643 −0.458
0.2651 −0.479
0.2660 −0.493
0.2668 −0.520
0.2693 −0.552
0.2703 −0.573
0.2712 −0.583
0.2721 −0.594
0.2743 −0.635
0.2751 −0.660
0.2759 −0.661
0.2770 −0.684
0.2794 −0.714
0.2803 −0.736
0.2813 −0.741
0.2821 −0.761
0.2840 −0.796
0.2849 −0.808
0.2857 −0.808
0.2865 −0.817
0.2885 −0.843
0.2894 −0.855
0.2917 −0.873
0.2925 −0.879
0.2933 −0.886
0.2941 −0.892
0.2962 −0.898
0.2972 −0.907
0.2981 −0.908
0.2990 −0.913
0.3014 −0.902
0.3024 −0.896
0.3033 −0.905
0.3055 −0.901
0.3065 −0.903
0.3076 −0.903
0.3085 −0.898
0.3102 −0.898
0.3111 −0.895
0.3119 −0.884
0.3130 −0.883
0.3154 −0.879
0.3162 −0.884
0.3170 −0.877
0.3179 −0.867
0.3200 −0.853
0.3210 −0.847
0.3219 −0.837
0.3227 −0.832
0.3249 −0.815

2441226 +
0.3080 −0.017
0.3089 −0.030
0.3097 −0.067
0.3104 −0.074
0.3129 −0.129
0.3137 −0.148
0.3147 −0.164
0.3155 −0.193
0.3178 −0.246
0.3186 −0.272
0.3195 −0.293
0.3204 −0.312
0.3227 −0.341
0.3237 −0.395
0.3245 −0.413
0.3254 −0.431
0.3280 −0.492
0.3289 −0.521
0.3298 −0.540
0.3307 −0.550
0.3331 −0.586
0.3341 −0.605
0.3351 −0.621
0.3361 −0.630
0.3387 −0.666
0.3398 −0.694
0.3407 −0.711
0.3417 −0.725
0.3441 −0.741
0.3451 −0.758
0.3460 −0.759
0.3470 −0.773
0.3500 −0.805
0.3511 −0.815
0.3521 −0.830
0.3531 −0.830
0.3558 −0.848
0.3569 −0.854
0.3580 −0.859
0.3590 −0.868
0.3613 −0.865
0.3623 −0.869
0.3633 −0.880
0.3644 −0.868
0.3668 −0.876
0.3679 −0.870
0.3689 −0.858
0.3700 −0.852
0.3727 −0.831
0.3759 −0.818
0.3783 −0.820
0.3795 −0.816
0.3806 −0.810

2441230 +
0.2525 +0.190
0.2535 +0.207
0.2547 +0.205
0.2561 +0.188
0.2570 +0.184
0.2580 +0.184
0.2612 +0.169
0.2624 +0.178
0.2634 +0.161
0.2657 +0.121
0.2666 +0.113
0.2674 +0.113
0.2696 +0.065
0.2705 +0.051
0.2713 +0.042
0.2721 +0.025
0.2742 −0.029
0.2751 −0.053
0.2760 −0.063
0.2768 −0.093
0.2786 −0.146
0.2795 −0.166
0.2805 −0.192
0.2813 −0.203
0.2831 −0.257
0.2840 −0.275
0.2849 −0.302
0.2857 −0.314
0.2880 −0.388
0.2890 −0.401
0.2898 −0.419
0.2907 −0.437
0.2926 −0.486
0.2939 −0.513
0.2948 −0.522
0.2957 −0.553
0.2975 −0.592
0.2984 −0.607
0.2995 −0.618
0.3004 −0.634
0.3025 −0.651
0.3038 −0.676
0.3048 −0.687
0.3060 −0.707
0.3079 −0.722
0.3090 −0.728
0.3100 −0.732
0.3110 −0.743
0.3132 −0.777
0.3142 −0.776
0.3152 −0.778
0.3161 −0.788
0.3181 −0.785
0.3191 −0.786
0.3200 −0.793
0.3214 −0.794
0.3234 −0.815
0.3244 −0.802
0.3254 −0.810
0.3264 −0.811
0.3285 −0.812
0.3295 −0.808
0.3305 −0.811
0.3315 −0.807
0.3336 −0.820
0.3348 −0.816
0.3359 −0.816
0.3368 −0.819
0.3389 −0.811
0.3399 −0.801
0.3409 −0.798
0.3420 −0.795
0.3440 −0.787
0.3450 −0.782
0.3459 −0.775
0.3470 −0.778
0.3490 −0.772
0.3500 −0.758
0.3508 −0.762
0.3529 −0.755
0.3542 −0.749
0.3552 −0.737
0.3561 −0.725
0.3582 −0.701
0.3592 −0.695
0.3601 −0.698

2441234 +
0.2209 +0.202
0.2217 +0.212
0.2225 +0.219
0.2234 +0.204
0.2254 +0.175
0.2262 +0.175
0.2270 +0.175
0.2278 +0.174
0.2300 +0.161
0.2317 +0.142
0.2325 +0.135
0.2342 +0.108
0.2350 +0.097
0.2358 +0.099
0.2366 +0.067
0.2384 +0.042
0.2391 +0.022
0.2401 +0.009
0.2414 −0.019
0.2439 −0.069
0.2449 −0.095
0.2459 −0.101
0.2471 −0.147
0.2495 −0.181
0.2506 −0.223
0.2514 −0.243
0.2523 −0.257
0.2551 −0.342
0.2564 −0.371
0.2576 −0.410
0.2585 −0.429
0.2607 −0.476
0.2616 −0.491
0.2625 −0.508

0.2635 −0.524
0.2664 −0.552
0.2675 −0.566
0.2686 −0.572
0.2696 −0.589
0.2720 −0.607
0.2730 −0.610
0.2743 −0.619
0.2758 −0.634
0.2784 −0.660
0.2796 −0.669
0.2806 −0.674
0.2816 −0.692
0.2841 −0.702
0.2862 −0.721
0.2880 −0.724
0.2890 −0.736
0.2936 −0.752
0.2951 −0.746
0.2965 −0.758
0.2980 −0.751
0.3012 −0.749
0.3025 −0.758
0.3043 −0.753
0.3054 −0.753
0.3083 −0.756
0.3093 −0.757
0.3102 −0.752
0.3113 −0.747
0.3144 −0.742
0.3155 −0.729
0.3167 −0.733
0.3182 −0.726
0.3206 −0.722
0.3218 −0.718
0.3231 −0.704
0.3243 −0.700
0.3273 −0.698
0.3287 −0.697

2441235 +
0.3695 +0.084
0.3702 +0.084
0.3709 +0.068
0.3715 +0.035
0.3733 +0.015
0.3741 −0.017
0.3749 −0.036
0.3757 −0.052
0.3775 −0.067
0.3784 −0.083
0.3792 −0.120
0.3800 −0.132
0.3818 −0.173
0.3826 −0.200
0.3834 −0.214
0.3842 −0.224
0.3860 −0.269
0.3867 −0.285
0.3875 −0.296
0.3896 −0.368
0.3904 −0.388
0.3912 −0.409
0.3920 −0.411
0.3939 −0.454
0.3946 −0.467
0.3954 −0.482
0.3961 −0.494

2441238 +
0.2149 −0.099
0.2156 −0.114
0.2180 −0.167
0.2187 −0.175
0.2195 −0.193
0.2204 −0.227
0.2221 −0.304
0.2237 −0.346
0.2245 −0.361
0.2254 −0.366
0.2272 −0.417
0.2280 −0.448
0.2288 −0.452
0.2310 −0.489
0.2317 −0.498
0.2325 −0.496
0.2347 −0.519
0.2359 −0.538
0.2375 −0.536
0.2392 −0.544
0.2416 −0.581
0.2612 −0.671
0.2620 −0.685
0.2637 −0.697
0.2644 −0.693
0.2651 −0.696
0.2676 −0.705
0.2693 −0.704
0.2701 −0.711
0.2723 −0.726
0.2731 −0.730
0.2747 −0.726
0.2755 −0.718
0.2772 −0.717
0.2782 −0.731
0.2799 −0.720
0.2822 −0.719
0.2828 −0.725
0.2849 −0.719
0.2870 −0.720
0.2878 −0.714
0.2888 −0.716
0.2904 −0.702
0.2911 −0.698
0.2919 −0.693

2441243 +
0.2977 +0.190
0.2985 +0.194
0.2992 +0.195
0.3001 +0.199
0.3017 +0.172
0.3024 +0.161
0.3031 +0.152
0.3038 +0.147
0.3056 +0.129
0.3063 +0.123
0.3070 +0.108
0.3076 +0.104
0.3093 +0.093
0.3100 +0.102
0.3106 +0.083
0.3122 +0.065
0.3128 +0.053
0.3135 +0.034
0.3151 −0.004
0.3157 −0.010
0.3163 −0.020
0.3169 −0.020
0.3186 −0.066
0.3193 −0.073
0.3213 −0.116
0.3220 −0.147
0.3238 −0.174
0.3247 −0.183
0.3255 −0.225
0.3270 −0.240
0.3277 −0.240
0.3284 −0.258
0.3301 −0.292
0.3309 −0.329
0.3315 −0.338
0.3331 −0.385
0.3338 −0.388
0.3346 −0.403
0.3362 −0.403
0.3370 −0.416
0.3376 −0.425
0.3394 −0.442
0.3403 −0.442
0.3423 −0.472
0.3430 −0.469
0.3446 −0.500
0.3508 −0.520
0.3585 −0.581
0.3593 −0.577
0.3621 −0.610
0.3629 −0.616
0.3649 −0.639
0.3668 −0.648
0.3676 −0.651

2441251 +
0.2344 +0.257
0.2365 +0.249
0.2397 +0.230
0.2400 +0.238
0.2413 +0.229
0.2439 +0.211
0.2447 +0.195
0.2476 +0.165
0.2496 +0.136
0.2505 +0.117
0.2531 +0.060
0.2549 +0.062
0.2557 +0.034
0.2573 −0.007
0.2581 −0.029
0.2599 −0.043
0.2607 −0.074
0.2624 −0.120
0.2631 −0.122
0.2649 −0.167
0.2657 −0.178
0.2672 −0.205
0.2680 −0.228
0.2698 −0.264
0.2706 −0.286
0.2714 −0.298
0.2733 −0.339
0.2741 −0.356
0.2749 −0.370
0.2767 −0.396
0.2775 −0.411
0.2783 −0.433
0.2802 −0.462
0.2810 −0.466
0.2821 −0.475
0.2837 −0.495
0.2846 −0.500
0.2854 −0.513
0.2863 −0.526
0.2881 −0.544
0.2889 −0.548
0.2898 −0.563
0.2916 −0.592
0.2924 −0.594
0.2932 −0.604
0.2940 −0.617
0.2964 −0.650
0.2972 −0.666
0.2981 −0.676
0.3000 −0.704
0.3009 −0.712
0.3018 −0.736
0.3026 −0.740
0.3048 −0.763
0.3062 −0.781
0.3071 −0.785
0.3080 −0.788
0.3115 −0.818
0.3124 −0.824
0.3134 −0.825
0.3144 −0.834
0.3164 −0.850
0.3178 −0.853
0.3187 −0.844
0.3200 −0.853
0.3231 −0.855
0.3239 −0.849
0.3247 −0.847
0.3255 −0.853
0.3276 −0.845
0.3285 −0.846
0.3294 −0.848
0.3302 −0.849
0.3320 −0.838
0.3330 −0.828
0.3339 −0.823
0.3348 −0.822
0.3368 −0.818
0.3376 −0.817
0.3385 −0.801
0.3393 −0.805
0.3414 −0.801
0.3423 −0.798
0.3432 −0.784
0.3440 −0.779
0.3461 −0.769
0.3470 −0.769
0.3478 −0.753
0.3487 −0.744

2441260 +
0.3120 +0.144
0.3131 +0.143
0.3168 +0.087
0.3179 +0.070
0.3218 +0.013
0.3231 −0.006
0.3264 −0.114
0.3275 −0.114
0.3309 −0.201
0.3321 −0.220
0.3359 −0.338
0.3370 −0.363
0.3382 −0.382
0.3415 −0.471
0.3427 −0.512
0.3472 −0.607

2441277 +
0.3127 +0.098
0.3141 +0.079
0.3158 +0.063
0.3191 −0.050
0.3201 −0.061
0.3239 −0.148
0.3249 −0.195
0.3276 −0.225
0.3286 −0.270
0.3303 −0.323
0.3323 −0.389

2441389 +
0.5966 −0.917
0.5979 −0.911
0.5990 −0.899
0.6013 −0.912
0.6025 −0.896
0.6035 −0.886
0.6046 −0.871
0.6069 −0.868
0.6079 −0.863
0.6095 −0.853
0.6126 −0.846
0.6138 −0.849
0.6160 −0.834
0.6184 −0.813
0.6196 −0.814

0.6206 −0.815
0.6238 −0.791
0.6250 −0.764
0.6262 −0.752

2441393 +
0.4994 +0.171
0.5004 +0.166
0.5014 +0.151
0.5047 +0.101
0.5057 +0.098
0.5067 +0.068
0.5088 +0.044
0.5098 +0.041
0.5108 +0.016
0.5118 −0.007
0.5140 −0.065
0.5150 −0.078
0.5170 −0.135
0.5189 −0.193
0.5199 −0.221
0.5209 −0.235
0.5219 −0.258
0.5237 −0.286
0.5247 −0.316
0.5257 −0.343
0.5267 −0.385
0.5286 −0.456
0.5296 −0.468
0.5306 −0.513
0.5316 −0.536
0.5335 −0.569
0.5345 −0.592
0.5355 −0.589
0.5365 −0.605
0.5388 −0.656
0.5398 −0.661
0.5408 −0.683
0.5418 −0.697
0.5444 −0.727
0.5454 −0.738
0.5464 −0.742
0.5474 −0.761
0.5504 −0.789
0.5514 −0.786
0.5524 −0.813
0.5534 −0.817
0.5558 −0.832
0.5568 −0.848
0.5578 −0.842
0.5588 −0.845
0.5610 −0.846
0.5620 −0.844
0.5630 −0.849
0.5640 −0.844
0.5666 −0.842
0.5676 −0.839
0.5686 −0.841
0.5696 −0.844
0.5714 −0.830
0.5724 −0.829
0.5734 −0.824

0.5744 −0.806
0.5770 −0.799
0.5780 −0.802
0.5790 −0.791
0.5800 −0.795
0.5827 −0.768
0.5837 −0.775
0.5847 −0.754
0.5857 −0.753
0.5887 −0.718
0.5902 −0.712
0.5945 −0.708
0.5955 −0.689
0.5965 −0.682
0.5988 −0.689
0.5998 −0.682
0.6018 −0.681
0.6039 −0.662
0.6049 −0.654
0.6059 −0.656
0.6069 −0.644

2441394 +
0.6204 +0.206
0.6213 +0.209
0.6221 +0.202
0.6228 +0.201
0.6251 +0.192
0.6260 +0.196
0.6269 +0.191
0.6278 +0.191
0.6302 +0.186
0.6312 +0.170
0.6322 +0.169
0.6332 +0.166
0.6354 +0.130
0.6363 +0.130
0.6372 +0.113
0.6381 +0.105
0.6401 +0.071
0.6410 +0.060
0.6419 +0.054
0.6428 +0.035
0.6449 −0.015
0.6458 −0.024
0.6468 −0.042
0.6476 −0.074
0.6498 −0.105
0.6507 −0.131
0.6516 −0.144
0.6525 −0.178
0.6544 −0.227
0.6554 −0.247
0.6562 −0.256

2441397 +
0.4813 −0.062
0.4841 −0.122
0.4849 −0.135
0.4858 −0.154
0.4878 −0.217
0.4887 −0.262

0.4897 −0.289
0.4925 −0.339
0.4953 −0.421
0.4963 −0.435
0.4972 −0.476
0.4992 −0.503
0.5001 −0.523
0.5009 −0.540
0.5027 −0.565
0.5036 −0.587
0.5043 −0.594
0.5069 −0.624
0.5079 −0.628
0.5088 −0.637
0.5107 −0.658
0.5116 −0.664
0.5126 −0.673
0.5147 −0.675
0.5157 −0.686
0.5167 −0.699
0.5187 −0.699
0.5196 −0.714
0.5206 −0.711
0.5231 −0.718
0.5242 −0.731
0.5251 −0.726
0.5272 −0.741
0.5282 −0.747
0.5293 −0.744
0.5314 −0.741
0.5324 −0.737
0.5336 −0.746
0.5361 −0.743
0.5375 −0.751
0.5385 −0.748
0.5407 −0.750
0.5417 −0.743
0.5427 −0.748
0.5448 −0.736
0.5457 −0.740
0.5467 −0.731
0.5490 −0.722
0.5502 −0.725
0.5512 −0.726
0.5535 −0.709
0.5546 −0.701
0.5562 −0.702
0.5582 −0.692
0.5590 −0.682
0.5600 −0.682
0.5623 −0.666
0.5633 −0.659
0.5644 −0.668
0.5665 −0.654
0.5678 −0.651
0.5693 −0.652
0.5715 −0.636
0.5725 −0.633
0.5737 −0.629
0.5758 −0.603
0.5768 −0.592
0.5778 −0.572

2441398 +
0.5880 +0.207
0.5888 +0.222
0.5898 +0.208
0.5908 +0.209
0.5927 +0.206
0.5936 +0.204
0.5946 +0.179
0.5955 +0.177
0.5975 +0.171
0.5984 +0.164
0.5992 +0.153
0.6002 +0.156
0.6022 +0.146
0.6033 +0.140
0.6042 +0.117
0.6052 +0.106
0.6078 +0.088
0.6127 −0.004
0.6137 −0.011
0.6145 −0.023
0.6155 −0.049
0.6176 −0.097
0.6189 −0.111
0.6198 −0.136
0.6208 −0.160
0.6228 −0.220
0.6237 −0.228
0.6247 −0.252
0.6256 −0.273
0.6281 −0.351
0.6291 −0.381
0.6300 −0.400
0.6309 −0.422
0.6328 −0.474
0.6338 −0.498
0.6348 −0.510
0.6357 −0.525
0.6378 −0.554
0.6389 −0.567
0.6400 −0.573
0.6409 −0.582
0.6429 −0.594
0.6437 −0.593
0.6448 −0.599
0.6458 −0.610
0.6479 −0.628

2441401 +
0.4768 −0.508
0.4779 −0.512
0.4791 −0.531
0.4814 −0.541
0.4824 −0.548
0.4835 −0.538
0.4857 −0.551
0.4869 −0.560
0.4881 −0.560
0.4905 −0.563
0.4916 −0.574
0.4926 −0.582

0.4949 −0.589
0.4959 −0.596
0.4971 −0.611
0.4993 −0.614
0.5004 −0.625
0.5015 −0.623
0.5039 −0.648
0.5051 −0.647
0.5064 −0.635
0.5085 −0.649
0.5097 −0.656
0.5109 −0.650
0.5139 −0.669
0.5151 −0.654
0.5162 −0.670
0.5181 −0.664
0.5193 −0.662
0.5204 −0.675
0.5225 −0.669
0.5236 −0.662
0.5247 −0.666
0.5273 −0.666
0.5283 −0.675
0.5294 −0.674
0.5320 −0.675
0.5332 −0.666
0.5341 −0.663
0.5362 −0.660
0.5373 −0.650
0.5407 −0.644
0.5418 −0.642
0.5429 −0.642
0.5452 −0.635
0.5462 −0.631
0.5472 −0.625
0.5496 −0.625
0.5508 −0.630
0.5519 −0.625
0.5542 −0.608
0.5552 −0.600
0.5562 −0.595
0.5589 −0.600
0.5599 −0.597
0.5609 −0.583

2441402 +
0.5638 +0.204
0.5657 +0.216
0.5667 +0.204
0.5677 +0.198
0.5698 +0.193
0.5708 +0.183
0.5717 +0.187
0.5740 +0.172
0.5749 +0.152
0.5759 +0.140
0.5780 +0.119
0.5790 +0.113
0.5798 +0.105
0.5821 +0.068
0.5860 +0.014
0.5886 −0.029

0.5905 −0.060
0.5913 −0.092
0.5921 −0.100
0.5942 −0.156
0.5952 −0.181
0.5961 −0.191
0.5979 −0.245
0.5994 −0.271
0.6004 −0.303
0.6030 −0.340
0.6039 −0.369
0.6049 −0.385
0.6070 −0.415
0.6078 −0.434
0.6087 −0.443
0.6104 −0.461

2441406 +
0.6066 −0.514
0.6076 −0.511
0.6088 −0.563
0.6099 −0.557
0.6119 −0.578
0.6140 −0.599
0.6160 −0.620
0.6170 −0.642
0.6211 −0.660
0.6222 −0.662
0.6242 −0.685
0.6253 −0.676
0.6281 −0.704
0.6291 −0.708
0.6301 −0.703
0.6321 −0.703
0.6341 −0.703
0.6361 −0.708
0.6370 −0.701
0.6381 −0.711
0.6401 −0.711

2441414 +
0.4666 +0.251
0.4674 +0.248
0.4691 +0.236
0.4700 +0.236
0.4708 +0.228
0.4725 +0.229
0.4733 +0.217
0.4741 +0.220
0.4761 +0.219
0.4772 +0.224
0.4779 +0.231
0.4801 +0.227
0.4813 +0.224
0.4832 +0.226
0.4842 +0.226
0.4851 +0.214
0.4873 +0.210
0.4884 +0.200
0.4892 +0.183
0.4914 +0.171
0.4923 +0.150

0.4933 +0.137
0.4951 +0.134
0.4972 +0.094
0.4995 +0.084
0.5004 +0.054
0.5015 +0.052
0.5032 +0.032
0.5050 +0.010
0.5080 −0.051

2441418 +
0.4883 −0.394
0.4891 −0.419
0.4909 −0.479
0.4918 −0.510
0.4927 −0.522
0.4943 −0.563
0.4952 −0.584
0.4960 −0.605
0.4976 −0.629
0.4986 −0.641
0.4994 −0.658
0.5007 −0.680
0.5015 −0.715
0.5024 −0.714
0.5077 −0.824
0.5087 −0.855
0.5096 −0.862
0.5119 −0.888
0.5129 −0.895
0.5139 −0.901
0.5156 −0.929
0.5166 −0.938
0.5176 −0.946
0.5194 −0.962
0.5214 −0.980
0.5230 −0.967
0.5240 −0.972
0.5249 −0.974
0.5266 −0.969
0.5276 −0.966
0.5286 −0.968
0.5313 −0.977
0.5327 −0.966
0.5341 −0.968
0.5359 −0.950
0.5369 −0.942
0.5379 −0.947
0.5396 −0.927
0.5406 −0.914
0.5416 −0.904
0.5433 −0.898
0.5443 −0.894
0.5453 −0.890
0.5470 −0.888
0.5480 −0.879
0.5490 −0.865
0.5507 −0.858
0.5517 −0.850
0.5527 −0.843

2441439 +

0.4135 +0.136
0.4146 +0.131
0.4156 +0.134
0.4173 +0.100
0.4183 +0.093
0.4212 +0.048
0.4222 +0.046
0.4247 −0.007
0.4257 −0.035
0.4267 −0.048
0.4284 −0.106
0.4294 −0.132
0.4304 −0.141
0.4321 −0.205
0.4336 −0.257
0.4358 −0.298
0.4368 −0.324
0.4378 −0.340
0.4395 −0.400
0.4405 −0.419
0.4415 −0.424
0.4433 −0.467
0.4443 −0.486
0.4453 −0.516
0.4469 −0.537
0.4479 −0.533
0.4489 −0.544
0.4506 −0.581
0.4516 −0.593
0.4526 −0.596
0.4544 −0.600
0.4554 −0.603
0.4564 −0.599
0.4580 −0.625
0.4590 −0.622
0.4600 −0.632
0.4617 −0.644
0.4627 −0.645
0.4637 −0.651
0.4655 −0.662
0.4665 −0.684
0.4675 −0.675
0.4692 −0.688
0.4702 −0.691
0.4712 −0.702
0.4728 −0.702
0.4743 −0.710
0.4766 −0.715
0.4776 −0.717
0.4786 −0.714
0.4803 −0.718
0.4813 −0.717
0.4823 −0.716
0.4849 −0.707
0.4859 −0.707
0.4877 −0.706
0.4887 −0.706
0.4897 −0.705
0.4914 −0.699
0.4924 −0.694
0.4934 −0.690
0.4950 −0.697

0.4960 −0.695
0.4970 −0.689
0.4988 −0.683
0.4998 −0.681
0.5008 −0.679
0.5025 −0.675
0.5035 −0.659
0.5045 −0.664
0.5062 −0.650
0.5072 −0.642
0.5082 −0.641

2441459 +
0.3527 −0.905
0.3538 −0.897
0.3551 −0.882
0.3585 −0.855
0.3599 −0.846
0.3613 −0.833
0.3643 −0.827
0.3655 −0.821
0.3668 −0.804
0.3700 −0.765
0.3728 −0.740
0.3754 −0.735
0.3770 −0.728
0.3784 −0.732
0.3812 −0.710
0.3825 −0.701
0.3842 −0.669
0.3871 −0.656
0.3923 −0.620
0.3935 −0.616
0.3950 −0.614

2441460 +
0.3752 +0.226
0.3762 +0.224
0.3772 +0.225
0.3805 +0.214
0.3814 +0.227
0.3832 +0.220
0.3842 +0.218
0.3852 +0.209
0.3874 +0.220
0.3884 +0.215
0.3894 +0.221
0.3915 +0.228
0.3925 +0.226
0.3935 +0.191
0.3952 +0.187
0.3972 +0.176
0.3994 +0.173
0.4004 +0.163
0.4035 +0.124
0.4045 +0.121
0.4055 +0.106
0.4075 +0.085
0.4085 +0.079
0.4095 +0.052
0.4116 +0.036
0.4126 +0.001

0.4136 −0.003
0.4155 −0.043
0.4165 −0.070
0.4175 −0.101
0.4198 −0.155
0.4208 −0.194
0.4218 −0.218
0.4238 −0.260
0.4248 −0.290
0.4258 −0.318
0.4275 −0.368
0.4285 −0.399
0.4313 −0.468
0.4323 −0.482
0.4333 −0.500
0.4355 −0.541
0.4365 −0.554
0.4375 −0.584
0.4394 −0.618
0.4404 −0.656
0.4414 −0.667
0.4435 −0.719
0.4445 −0.737
0.4455 −0.751
0.4473 −0.777
0.4483 −0.790
0.4493 −0.813
0.4519 −0.839
0.4529 −0.849
0.4539 −0.869
0.4560 −0.884
0.4570 −0.906
0.4580 −0.924
0.4599 −0.932
0.4609 −0.949
0.4619 −0.955
0.4639 −0.959
0.4649 −0.963
0.4681 −0.968
0.4691 −0.961
0.4701 −0.970
0.4725 −0.963
0.4735 −0.950
0.4745 −0.950
0.4771 −0.931
0.4781 −0.925
0.4791 −0.924
0.4817 −0.904
0.4827 −0.889
0.4837 −0.892
0.4867 −0.876
0.4877 −0.852
0.4887 −0.852
0.4918 −0.841
0.4928 −0.836
0.4938 −0.836

2441461 +
0.5302 +0.176
0.5311 +0.169
0.5329 +0.169
0.5337 +0.167

0.5345 +0.153
0.5363 +0.142
0.5371 +0.139
0.5379 +0.131
0.5397 +0.080
0.5406 +0.074
0.5414 +0.064
0.5441 +0.013
0.5449 +0.002
0.5457 −0.007
0.5472 −0.051
0.5480 −0.058
0.5488 −0.079
0.5507 −0.134
0.5515 −0.160
0.5523 −0.174
0.5545 −0.229
0.5557 −0.262
0.5567 −0.283
0.5577 −0.305
0.5595 −0.386

2441473 +
0.4103 +0.192
0.4111 +0.187
0.4118 +0.170
0.4141 +0.187
0.4151 +0.167
0.4177 +0.166
0.4185 +0.152
0.4193 +0.151
0.4229 +0.122
0.4237 +0.120
0.4244 +0.103
0.4265 +0.065
0.4275 +0.061
0.4285 +0.041
0.4303 +0.016
0.4311 +0.010
0.4322 −0.018
0.4346 −0.053
0.4359 −0.080
0.4382 −0.155
0.4392 −0.161
0.4400 −0.193
0.4419 −0.269
0.4428 −0.294
0.4437 −0.313
0.4464 −0.369
0.4473 −0.397
0.4482 −0.414
0.4503 −0.482
0.4512 −0.500
0.4521 −0.530
0.4540 −0.577
0.4549 −0.581
0.4558 −0.586
0.4589 −0.657
0.4597 −0.658
0.4607 −0.678
0.4625 −0.696
0.4634 −0.706
0.4666 −0.758
0.4676 −0.771
0.4686 −0.773
0.4705 −0.799
0.4714 −0.809
0.4723 −0.822
0.4744 −0.843
0.4752 −0.843
0.4762 −0.847
0.4783 −0.839
0.4793 −0.835
0.4803 −0.839
0.4823 −0.846
0.4832 −0.842
0.4842 −0.847
0.4864 −0.847
0.4874 −0.853
0.4884 −0.855
0.4905 −0.847
0.4915 −0.835
0.4925 −0.829
0.4947 −0.816
0.4957 −0.813
0.4967 −0.803
0.4991 −0.800
0.5001 −0.790
0.5035 −0.774
0.5045 −0.764
0.5055 −0.768
0.5081 −0.745
0.5091 −0.751
0.5101 −0.749
0.5121 −0.743
0.5131 −0.737
0.5141 −0.723

2441477 +
0.3937 +0.102
0.3946 +0.082
0.3962 +0.037
0.3992 −0.051
0.4000 −0.061
0.4006 −0.097
0.4023 −0.131
0.4030 −0.159
0.4036 −0.171
0.4059 −0.260
0.4066 −0.265
0.4073 −0.287
0.4089 −0.304
0.4147 −0.455
0.4155 −0.469
0.4162 −0.486
0.4179 −0.519
0.4185 −0.552
0.4194 −0.565
0.4214 −0.578
0.4227 −0.607
0.4235 −0.629
0.4254 −0.633
0.4263 −0.641
0.4271 −0.647
0.4293 −0.678
0.4301 −0.684
0.4308 −0.703
0.4325 −0.715
0.4333 −0.720
0.4340 −0.723
0.4360 −0.728
0.4369 −0.739
0.4377 −0.740
0.4397 −0.742
0.4407 −0.742
0.4416 −0.754
0.4437 −0.755
0.4446 −0.756
0.4454 −0.756
0.4475 −0.767
0.4485 −0.770
0.4495 −0.770
0.4515 −0.774
0.4524 −0.767
0.4536 −0.764
0.4561 −0.765
0.4570 −0.764
0.4581 −0.760
0.4602 −0.748
0.4612 −0.755
0.4622 −0.758
0.4643 −0.739
0.4657 −0.738
0.4667 −0.732
0.4688 −0.714
0.4698 −0.702
0.4709 −0.698
0.4776 −0.677
0.4787 −0.677
0.4797 −0.674

2441485 +
0.3491 −0.085
0.3511 −0.132
0.3529 −0.175
0.3539 −0.173
0.3545 −0.210
0.3568 −0.255
0.3574 −0.274
0.3584 −0.307
0.3605 −0.346
0.3611 −0.349
0.3621 −0.355
0.3640 −0.395
0.3650 −0.414
0.3656 −0.416
0.3675 −0.431
0.3685 −0.453
0.3691 −0.459
0.3710 −0.472
0.3720 −0.474
0.3726 −0.471
0.3748 −0.471
0.3758 −0.479
0.3764 −0.484
0.3783 −0.495
0.3793 −0.496
0.3803 −0.501
0.3821 −0.494
0.3827 −0.492
0.3833 −0.504
0.3855 −0.503
0.3861 −0.513
0.3867 −0.512
0.3887 −0.537
0.3893 −0.545
0.3903 −0.544
0.3922 −0.555
0.3928 −0.539
0.3938 −0.559
0.3953 −0.572
0.3963 −0.557
0.3969 −0.563
0.3987 −0.581
0.3993 −0.586
0.3999 −0.594
0.4022 −0.608
0.4028 −0.604
0.4034 −0.605
0.4054 −0.624
0.4060 −0.625
0.4066 −0.635
0.4082 −0.645
0.4092 −0.652
0.4102 −0.662
0.4116 −0.659
0.4122 −0.662
0.4132 −0.662
0.4151 −0.674
0.4157 −0.676
0.4163 −0.685
0.4179 −0.684
0.4185 −0.690
0.4195 −0.687
0.4216 −0.680
0.4222 −0.689
0.4241 −0.690
0.4247 −0.693
0.4253 −0.682
0.4269 −0.673
0.4279 −0.681
0.4285 −0.680
0.4304 −0.674
0.4314 −0.678
0.4320 −0.672
0.4335 −0.664
0.4341 −0.673
0.4347 −0.677
0.4362 −0.673
0.4372 −0.675
0.4378 −0.677
0.4401 −0.664
0.4407 −0.672
0.4413 −0.662
0.4432 −0.659
0.4438 −0.646
0.4444 −0.650
0.4463 −0.644
0.4469 −0.643
0.4475 −0.634
0.4491 −0.645
0.4497 −0.641
0.4507 −0.635
0.4522 −0.627
0.4528 −0.632
0.4534 −0.616
0.4554 −0.618
0.4560 −0.627
0.4566 −0.621
0.4582 −0.617
0.4592 −0.621
0.4598 −0.611
0.4612 −0.600
0.4618 −0.592
0.4624 −0.586
0.4644 −0.578
0.4656 −0.568
0.4672 −0.567
0.4682 −0.576
0.4692 −0.568
0.4707 −0.558
0.4713 −0.553
0.4723 −0.543
0.4741 −0.531
0.4747 −0.525
0.4753 −0.528

2441489 +
0.3437 −0.317
0.3448 −0.344
0.3459 −0.361
0.3478 −0.374
0.3489 −0.395
0.3499 −0.405
0.3522 −0.411
0.3533 −0.424
0.3544 −0.424
0.3568 −0.423
0.3578 −0.435
0.3588 −0.443
0.3609 −0.475
0.3620 −0.473
0.3630 −0.489
0.3655 −0.533
0.3666 −0.527
0.3676 −0.544
0.3713 −0.602
0.3725 −0.621
0.3735 −0.627
0.3758 −0.647
0.3771 −0.649
0.3911 −0.745
0.3921 −0.759
0.3931 −0.764
0.3953 −0.770
0.3963 −0.754
0.4001 −0.759
0.4011 −0.755
0.4022 −0.760
0.4133 −0.731

0.4144 −0.732
0.4156 −0.722
0.4179 −0.709
0.4190 −0.706
0.4201 −0.718
0.4220 −0.705
0.4230 −0.697
0.4243 −0.679
0.4267 −0.677
0.4275 −0.666
0.4286 −0.655
0.4311 −0.652
0.4322 −0.644
0.4331 −0.643
0.4350 −0.634

2441490 +
0.4478 +0.109
0.4488 +0.081
0.4497 +0.067
0.4516 +0.049
0.4525 +0.017
0.4534 +0.010
0.4554 −0.027
0.4563 −0.039
0.4572 −0.054
0.4590 −0.080
0.4598 −0.121
0.4607 −0.127
0.4627 −0.171
0.4636 −0.186
0.4644 −0.205
0.4665 −0.244
0.4673 −0.252
0.4683 −0.259
0.4705 −0.301
0.4714 −0.303
0.4723 −0.314
0.4745 −0.333
0.4755 −0.339
0.4763 −0.342
0.4788 −0.352
0.4798 −0.361
0.4810 −0.360
0.4830 −0.364
0.4840 −0.365
0.4850 −0.367
0.4872 −0.393
0.4882 −0.391
0.4893 −0.412
0.4917 −0.433
0.4925 −0.452
0.4960 −0.491
0.4970 −0.513
0.4980 −0.529
0.5085 −0.668
0.5094 −0.671
0.5102 −0.684
0.5122 −0.701
0.5131 −0.708
0.5141 −0.715
0.5160 −0.742

0.5171 −0.751
0.5181 −0.759
0.5206 −0.758
0.5217 −0.768
0.5227 −0.774
0.5241 −0.775
0.5251 −0.787
0.5263 −0.780
0.5285 −0.776
0.5295 −0.772
0.5304 −0.777
0.5327 −0.777
0.5342 −0.771
0.5370 −0.772
0.5381 −0.760
0.5390 −0.751
0.5411 −0.754
0.5422 −0.749
0.5433 −0.744

2441498 +
0.3900 +0.064
0.3977 −0.102
0.3986 −0.125
0.3994 −0.147
0.4013 −0.237

2441503 +
0.4501 +0.213
0.4511 +0.220
0.4521 +0.216
0.4538 +0.219
0.4548 +0.230
0.4558 +0.227
0.4575 +0.232
0.4585 +0.227
0.4595 +0.232
0.4622 +0.221
0.4632 +0.217
0.4649 +0.221
0.4659 +0.219
0.4669 +0.207
0.4696 +0.184
0.4723 +0.192
0.4733 +0.188
0.4743 +0.195
0.5276 −0.951
0.5286 −0.950
0.5296 −0.955
0.5314 −0.956
0.5324 −0.957
0.5334 −0.960
0.5350 −0.974
0.5360 −0.971
0.5370 −0.959
0.5387 −0.961
0.5397 −0.978
0.5407 −0.974
0.5425 −0.954
0.5435 −0.958
0.5445 −0.953
0.5462 −0.962

0.5472 −0.956
0.5482 −0.954
0.5498 −0.948
0.5508 −0.934
0.5518 −0.940
0.5536 −0.918
0.5546 −0.909
0.5556 −0.906
0.5573 −0.886
0.5583 −0.878
0.5593 −0.876
0.5609 −0.856
0.5619 −0.855
0.5629 −0.852

2441515 +
0.3781 −0.043
0.3792 −0.063
0.3801 −0.097
0.3820 −0.160
0.3829 −0.197
0.3836 −0.206
0.3863 −0.251
0.3873 −0.276
0.3895 −0.332
0.3902 −0.361
0.3909 −0.388
0.3928 −0.452
0.3936 −0.478
0.3944 −0.500
0.3964 −0.546
0.3973 −0.561
0.3981 −0.594
0.4006 −0.614
0.4018 −0.636
0.4027 −0.659
0.4045 −0.679
0.4061 −0.695
0.4089 −0.730
0.4098 −0.735
0.4108 −0.749
0.4134 −0.777
0.4240 −0.853
0.4250 −0.856
0.4259 −0.862
0.4281 −0.844
0.4296 −0.848
0.4306 −0.840
0.4331 −0.823
0.4340 −0.830
0.4350 −0.828
0.4386 −0.801
0.4395 −0.804
0.4438 −0.766
0.4448 −0.767
0.4470 −0.767
0.4480 −0.763
0.4489 −0.757
0.4514 −0.740
0.4523 −0.731
0.4560 −0.711
0.4569 −0.707

0.4578 −0.701
0.4598 −0.691
0.4607 −0.689
0.4615 −0.689
0.4636 −0.677
0.4647 −0.664
0.4657 −0.649

2441516 +
0.4965 +0.181
0.4974 +0.190
0.4984 +0.183
0.4992 +0.159
0.5009 +0.135
0.5021 +0.135
0.5029 +0.103
0.5038 +0.082
0.5061 +0.064
0.5079 +0.031
0.5088 +0.006
0.5108 −0.038
0.5117 −0.045
0.5125 −0.062
0.5134 −0.065
0.5152 −0.130
0.5161 −0.152
0.5169 −0.200
0.5209 −0.280
0.5219 −0.291
0.5228 −0.325
0.5256 −0.424
0.5266 −0.442
0.5275 −0.466
0.5284 −0.491
0.5305 −0.527
0.5316 −0.554
0.5325 −0.575
0.5334 −0.598
0.5356 −0.632
0.5366 −0.660
0.5375 −0.672
0.5384 −0.676
0.5407 −0.696
0.5416 −0.689
0.5427 −0.699
0.5437 −0.698
0.5458 −0.724
0.5468 −0.740
0.5476 −0.752
0.5487 −0.752
0.5510 −0.770
0.5520 −0.787
0.5540 −0.808
0.5549 −0.810
0.5557 −0.821
0.5579 −0.813
0.5589 −0.811
0.5609 −0.813
0.5618 −0.807
0.5639 −0.797

2441519 +

0.3510 −0.191
0.3516 −0.226
0.3525 −0.238
0.3545 −0.272
0.3552 −0.274
0.3572 −0.297
0.3580 −0.299
0.3803 −0.642
0.3816 −0.658
0.3841 −0.684
0.3855 −0.690
0.3887 −0.700
0.3917 −0.705
0.3927 −0.717
0.3945 −0.726
0.3955 −0.710
0.3977 −0.708
0.3988 −0.704
0.4010 −0.729
0.4020 −0.731
0.4041 −0.709
0.4053 −0.706
0.4075 −0.725
0.4086 −0.726
0.4104 −0.711
0.4116 −0.703
0.4138 −0.710
0.4148 −0.704

2441520 +
0.4774 +0.016
0.4782 +0.013
0.4799 −0.014
0.4807 −0.052
0.4823 −0.069
0.4831 −0.102
0.4839 −0.104
0.4857 −0.164
0.4865 −0.185
0.4873 −0.208
0.4891 −0.240
0.4899 −0.253
0.4908 −0.272
0.4927 −0.341
0.4935 −0.366
0.4955 −0.387
0.4963 −0.402
0.4991 −0.465
0.5022 −0.530
0.5030 −0.532
0.5048 −0.555
0.5081 −0.589
0.5089 −0.590
0.5109 −0.599
0.5118 −0.621
0.5136 −0.616
0.5145 −0.629
0.5163 −0.634
0.5172 −0.638
0.5191 −0.652
0.5199 −0.650
0.5229 −0.668

0.5253 −0.679
0.5274 −0.674
0.5282 −0.674
0.5302 −0.685
0.5311 −0.686
0.5337 −0.688
0.5359 −0.686
0.5387 −0.696
0.5395 −0.691
0.5415 −0.691
0.5424 −0.682

2441536 +
0.3633 +0.126
0.3647 +0.112
0.3653 +0.096
0.3675 +0.072
0.3688 +0.059
0.3710 +0.012
0.3726 −0.022
0.3744 −0.047
0.3750 −0.062
0.3756 −0.073
0.3775 −0.130
0.3781 −0.146
0.3787 −0.164
0.3807 −0.202
0.3813 −0.226
0.3819 −0.238
0.3842 −0.285
0.3852 −0.287
0.3858 −0.290
0.3876 −0.328
0.3882 −0.338
0.3888 −0.358
0.3911 −0.398
0.3917 −0.401
0.3929 −0.416
0.3942 −0.443
0.3948 −0.449
0.3954 −0.461
0.3976 −0.478
0.3986 −0.519
0.3996 −0.529
0.4015 −0.547
0.4021 −0.560
0.4027 −0.577
0.4050 −0.607
0.4064 −0.632
0.4070 −0.658
0.4092 −0.698
0.4106 −0.712
0.4112 −0.719
0.4129 −0.748
0.4139 −0.739
0.4145 −0.744
0.4164 −0.784
0.4174 −0.799
0.4184 −0.814
0.4203 −0.847
0.4213 −0.856
0.4219 −0.858

0.4244 −0.883
0.4250 −0.870
0.4264 −0.881
0.4293 −0.886
0.4299 −0.884
0.4321 −0.905
0.4331 −0.906
0.4341 −0.908
0.4368 −0.898
0.4374 −0.881
0.4397 −0.880
0.4403 −0.887
0.4413 −0.864
0.4432 −0.871
0.4442 −0.862
0.4452 −0.864
0.4473 −0.851
0.4479 −0.837
0.4489 −0.843
0.4515 −0.816
0.4529 −0.820
0.4539 −0.811
0.4564 −0.781
0.4570 −0.780
0.4580 −0.777

2441537 +
0.4856 +0.253
0.4870 +0.239
0.4918 +0.184
0.4932 +0.172
0.4950 +0.169
0.4956 +0.163
0.4977 +0.112
0.4983 +0.109
0.5002 +0.087
0.5012 +0.091
0.5033 +0.056
0.5039 +0.044
0.5060 −0.009
0.5070 −0.038
0.5095 −0.097
0.5105 −0.110
0.5123 −0.159
0.5129 −0.174
0.5148 −0.218
0.5158 −0.229
0.5175 −0.275
0.5185 −0.285
0.5203 −0.318
0.5213 −0.320
0.5231 −0.366
0.5241 −0.379
0.5259 −0.425
0.5265 −0.432
0.5283 −0.448
0.5289 −0.455
0.5307 −0.502
0.5313 −0.505
0.5335 −0.549
0.5341 −0.554
0.5359 −0.588

0.5369 −0.607
0.5391 −0.625
0.5397 −0.644
0.5411 −0.679
0.5421 −0.697
0.5442 −0.742
0.5448 −0.756
0.5467 −0.796
0.5477 −0.827
0.5495 −0.860
0.5530 −0.884
0.5557 −0.899
0.5565 −0.900
0.5578 −0.897
0.5588 −0.895
0.5606 −0.900
0.5616 −0.899
0.5634 −0.894
0.5640 −0.891
0.5661 −0.899
0.5667 −0.894
0.5689 −0.909
0.5699 −0.900
0.5717 −0.897
0.5723 −0.895
0.5741 −0.884
0.5773 −0.890
0.5779 −0.882
0.5800 −0.879
0.5814 −0.859
0.5828 −0.838

2441540 +
0.3315 +0.130
0.3322 +0.097
0.3356 +0.063
0.3377 +0.027
0.3398 −0.052
0.3419 −0.100
0.3440 −0.136
0.3456 −0.191
0.3478 −0.247
0.3516 −0.349
0.3537 −0.389
0.3585 −0.524
0.3603 −0.549
0.3624 −0.576
0.3641 −0.630
0.3683 −0.727
0.3703 −0.764
0.3730 −0.806
0.3776 −0.857
0.3801 −0.887
0.3815 −0.899
0.3835 −0.942
0.3856 −0.934
0.3879 −0.950
0.3898 −0.944
0.3919 −0.943
0.3937 −0.931
0.3967 −0.937
0.3985 −0.945

0.4002 −0.923
0.4030 −0.914
0.4046 −0.892
0.4062 −0.888
0.4078 −0.893
0.4095 −0.870
0.4116 −0.862
0.4137 −0.841
0.4155 −0.836
0.4173 −0.828

2441544 +
0.3299 −0.795
0.3307 −0.806
0.3317 −0.815
0.3355 −0.880
0.3368 −0.897
0.3380 −0.918
0.3408 −0.939
0.3419 −0.948
0.3429 −0.958
0.3469 −0.979
0.3485 −0.988
0.3500 −0.984
0.3535 −0.990
0.3550 −0.984
0.3561 −0.975
0.3601 −0.959
0.3611 −0.947
0.3621 −0.928
0.3657 −0.909
0.3671 −0.901
0.3681 −0.890
0.3715 −0.853
0.3725 −0.859

2441561 +
0.2890 +0.046
0.2900 +0.030
0.2908 +0.017
0.2935 −0.051
0.2947 −0.075
0.2957 −0.116
0.2977 −0.163
0.2983 −0.202
0.2993 −0.206
0.3015 −0.252
0.3025 −0.266
0.3035 −0.301
0.3048 −0.326
0.3066 −0.362
0.3074 −0.392
0.3090 −0.433
0.3098 −0.448
0.3108 −0.467
0.3124 −0.487
0.3132 −0.511
0.3140 −0.521
0.3156 −0.552
0.3168 −0.544
0.3175 −0.558
0.3198 −0.586

0.3206 −0.585
0.3212 −0.588
0.3230 −0.597
0.3238 −0.601
0.3246 −0.607
0.3265 −0.611
0.3275 −0.618
0.3281 −0.629
0.3301 −0.637
0.3311 −0.654
0.3321 −0.653
0.3330 −0.657
0.3339 −0.649
0.3351 −0.667
0.3366 −0.674
0.3378 −0.677
0.3385 −0.674
0.3402 −0.680
0.3408 −0.684
0.3416 −0.686
0.3436 −0.696
0.3446 −0.701
0.3456 −0.703
0.3471 −0.696
0.3481 −0.702
0.3491 −0.711
0.3508 −0.700
0.3518 −0.705
0.3526 −0.706
0.3541 −0.705
0.3547 −0.699
0.3555 −0.693
0.3575 −0.698
0.3585 −0.690
0.3595 −0.696
0.3612 −0.700
0.3622 −0.689
0.3632 −0.684
0.3649 −0.683
0.3659 −0.673
0.3669 −0.669
0.3686 −0.656
0.3696 −0.651
0.3706 −0.639

2441562 +
0.4039 +0.204
0.4048 +0.203
0.4056 +0.203
0.4066 +0.194
0.4086 +0.190
0.4095 +0.190
0.4104 +0.171
0.4124 +0.164
0.4133 +0.166
0.4141 +0.155
0.4160 +0.139
0.4170 +0.135
0.4183 +0.106
0.4203 +0.073
0.4212 +0.063
0.4221 +0.049

0.4240 +0.012
0.4248 −0.004
0.4258 −0.012
0.4278 −0.056
0.4287 −0.084
0.4297 −0.102
0.4318 −0.151
0.4328 −0.172
0.4338 −0.198
0.4358 −0.246
0.4367 −0.266
0.4376 −0.287
0.4401 −0.349
0.4417 −0.401
0.4433 −0.440
0.4457 −0.472
0.4471 −0.496
0.4485 −0.521
0.4516 −0.554
0.4530 −0.567
0.4545 −0.569
0.4575 −0.582
0.4592 −0.596
0.4608 −0.600
0.4641 −0.618
0.4655 −0.628
0.4669 −0.624
0.4703 −0.632
0.4718 −0.636
0.4732 −0.634
0.4773 −0.655
0.4787 −0.653
0.4801 −0.660
0.4835 −0.657
0.4849 −0.661
0.4863 −0.660
0.4897 −0.665
0.4912 −0.661
0.4926 −0.666
0.4956 −0.662
0.4972 −0.654
0.4986 −0.659
0.5016 −0.651
0.5036 −0.647
0.5050 −0.646

2441566 +
0.3826 +0.219
0.3840 +0.215
0.3891 +0.151
0.3905 +0.135
0.3919 +0.096
0.3967 +0.009
0.3978 −0.012
0.3985 −0.025
0.4044 −0.111
0.4058 −0.132
0.4073 −0.163
0.4127 −0.258
0.4141 −0.304
0.4152 −0.348
0.4197 −0.418
0.4211 −0.436
0.4542 −0.604
0.4595 −0.609
0.4609 −0.610

2441574 +
0.3307 +0.164
0.3325 +0.168
0.3336 +0.169
0.3351 +0.166
0.3373 +0.117
0.3383 +0.118
0.3398 +0.108
0.3408 +0.098
0.3422 +0.081
0.3428 +0.076
0.3447 +0.028
0.3457 −0.004
0.3474 −0.017
0.3480 −0.036
0.3498 −0.052
0.3504 −0.058
0.3523 −0.092
0.3529 −0.113
0.3551 −0.160
0.3557 −0.174
0.3575 −0.200
0.3581 −0.211
0.3599 −0.257
0.3613 −0.281
0.3630 −0.289
0.3636 −0.300
0.3655 −0.318
0.3665 −0.327
0.3679 −0.331
0.3685 −0.333
0.3700 −0.356
0.3710 −0.353
0.3724 −0.357
0.3734 −0.368
0.3752 −0.387
0.3758 −0.408
0.3776 −0.447
0.3801 −0.478
0.3811 −0.485
0.3829 −0.517
0.3835 −0.523
0.3852 −0.543
0.3862 −0.576
0.3884 −0.609
0.3890 −0.634
0.3919 −0.668
0.3925 −0.680
0.3940 −0.711
0.3950 −0.711
0.3967 −0.744
0.3977 −0.750
0.3995 −0.762
0.4005 −0.781
0.4023 −0.783
0.4029 −0.799
0.4050 −0.797
0.4072 −0.819
0.4078 −0.813
0.4092 −0.833
0.4116 −0.826
0.4130 −0.822
0.4148 −0.840
0.4158 −0.845
0.4176 −0.829
0.4204 −0.836
0.4210 −0.827
0.4231 −0.823
0.4241 −0.812
0.4266 −0.812
0.4280 −0.811
0.4301 −0.805
0.4315 −0.807
0.4332 −0.792
0.4342 −0.777
0.4363 −0.759
0.4373 −0.768

2441586 +
0.2590 −0.516
0.2600 −0.524
0.2606 −0.556
0.2632 −0.606
0.2646 −0.645
0.2652 −0.677
0.2677 −0.733
0.2687 −0.746
0.2693 −0.763
0.2722 −0.800
0.2736 −0.818
0.2742 −0.823
0.2771 −0.860
0.2785 −0.884
0.2799 −0.896
0.2823 −0.910
0.2833 −0.915
0.2875 −0.943
0.2881 −0.944
0.2895 −0.955
0.2924 −0.954
0.2938 −0.947
0.2948 −0.953
0.2972 −0.954
0.2982 −0.936
0.2992 −0.939
0.3021 −0.941
0.3031 −0.929
0.3041 −0.908
0.3070 −0.904
0.3076 −0.890
0.3090 −0.883
0.3118 −0.867
0.3128 −0.849
0.3138 −0.843

2441591 +
0.3491 −0.430
0.3497 −0.468
0.3503 −0.473
0.3526 −0.545
0.3540 −0.559
0.3554 −0.586
0.3581 −0.654
0.3587 −0.680
0.3593 −0.687
0.3616 −0.737
0.3630 −0.760
0.3636 −0.764
0.3658 −0.793
0.3668 −0.818
0.3678 −0.829
0.3706 −0.848
0.3712 −0.861
0.3718 −0.868
0.3741 −0.890
0.3755 −0.900
0.3765 −0.901
0.3790 −0.909
0.3804 −0.911
0.3810 −0.923
0.3831 −0.927
0.3845 −0.928
0.3873 −0.910
0.3887 −0.910
0.3915 −0.906
0.3921 −0.904
0.3943 −0.883
0.3949 −0.886
0.3977 −0.848
0.3991 −0.857
0.4012 −0.831
0.4022 −0.833
0.4047 −0.822
0.4053 −0.804
0.4081 −0.804
0.4091 −0.790
0.4116 −0.778
0.4126 −0.773

2441607 +
0.2139 −0.071
0.2145 −0.080
0.2170 −0.138
0.2177 −0.148
0.2184 −0.159
0.2204 −0.216
0.2211 −0.234
0.2218 −0.258
0.2243 −0.312
0.2250 −0.321
0.2257 −0.352
0.2274 −0.382
0.2281 −0.398
0.2288 −0.404
0.2309 −0.429
0.2316 −0.441
0.2323 −0.442

2441608 +
0.3244 +0.198
0.3251 +0.193
0.3258 +0.200
0.3279 +0.189
0.3286 +0.173
0.3293 +0.177
0.3314 +0.170
0.3321 +0.172
0.3341 +0.179
0.3348 +0.169
0.3369 +0.141
0.3376 +0.114
0.3397 +0.092
0.3425 +0.058
0.3432 +0.057
0.3452 +0.016
0.3459 +0.006
0.3480 −0.027
0.3508 −0.088
0.3515 −0.104
0.3536 −0.145
0.3543 −0.162
0.3564 −0.216
0.3571 −0.228
0.3591 −0.259
0.3598 −0.277
0.3619 −0.336
0.3626 −0.346
0.3647 −0.377
0.3654 −0.386
0.3675 −0.415
0.3682 −0.418
0.3702 −0.426
0.3709 −0.434
0.3758 −0.449
0.3765 −0.449
0.3786 −0.463
0.3793 −0.456
0.3820 −0.489
0.3841 −0.481

2441746 +
0.6333 +0.235
0.6347 +0.245
0.6357 +0.238
0.6388 +0.201
0.6401 +0.187
0.6413 +0.187
0.6447 +0.149
0.6459 +0.137
0.6471 +0.112
0.6500 +0.049
0.6513 +0.037
0.6526 +0.027
0.6571 −0.069
0.6588 −0.101
0.6601 −0.135
0.6631 −0.205
0.6648 −0.267
0.6665 −0.313

2441754 +
0.5831 −0.118
0.5841 −0.157

0.5861 −0.184
0.5898 −0.289
0.5930 −0.359
0.5938 −0.374
0.5945 −0.392
0.5962 −0.451
0.5970 −0.465
0.5979 −0.490
0.6008 −0.567
0.6017 −0.588
0.6026 −0.591
0.6055 −0.677
0.6064 −0.684
0.6094 −0.710
0.6103 −0.739
0.6132 −0.743
0.6142 −0.752
0.6154 −0.765
0.6175 −0.827
0.6185 −0.855
0.6194 −0.867
0.6215 −0.871
0.6224 −0.890
0.6234 −0.889
0.6256 −0.895
0.6266 −0.897
0.6276 −0.898
0.6299 −0.892
0.6309 −0.887
0.6320 −0.901

2441758 +
0.5213 +0.183
0.5224 +0.191
0.5254 +0.193
0.5267 +0.189
0.5302 +0.167
0.5314 +0.161
0.5327 +0.135
0.5350 +0.122
0.5361 +0.116
0.5372 +0.108
0.5397 +0.072
0.5408 +0.065
0.5428 +0.035
0.5439 +0.023
0.5450 −0.036
0.5472 −0.073
0.5483 −0.100
0.5493 −0.139
0.5515 −0.190
0.5527 −0.211
0.5539 −0.254
0.5562 −0.309
0.5574 −0.336
0.5585 −0.345
0.5614 −0.444
0.5625 −0.480
0.5636 −0.511
0.5647 −0.522
0.5672 −0.567
0.5684 −0.594

0.5696 −0.607
0.5721 −0.642
0.5735 −0.689
0.5749 −0.701
0.5775 −0.733
0.5790 −0.758
0.5804 −0.768
0.5893 −0.822
0.5904 −0.835
0.5916 −0.840
0.5938 −0.848
0.5949 −0.852
0.5961 −0.864
0.5986 −0.866
0.5998 −0.861
0.6012 −0.869
0.6036 −0.860
0.6048 −0.861
0.6057 −0.849
0.6083 −0.839
0.6097 −0.837
0.6110 −0.828

2441771 +
0.5723 +0.224
0.5734 +0.225
0.5743 +0.223
0.5817 +0.128
0.5839 +0.112
0.5847 +0.091
0.5876 +0.065
0.5895 +0.023
0.5904 −0.003
0.5924 −0.029
0.5932 −0.043
0.5951 −0.079
0.5959 −0.101
0.5987 −0.140
0.6005 −0.178
0.6014 −0.207
0.6044 −0.251
0.6064 −0.298
0.6074 −0.334
0.6093 −0.386
0.6103 −0.414
0.6123 −0.428
0.6132 −0.439
0.6151 −0.448
0.6160 −0.463
0.6179 −0.484
0.6190 −0.486
0.6210 −0.489
0.6221 −0.489
0.6249 −0.496
0.6260 −0.488
0.6293 −0.502

2441791 +
0.4164 +0.142
0.4196 +0.133
0.4209 +0.107
0.4232 +0.086

0.4264 +0.019
0.4273 +0.007
0.4314 −0.090
0.4333 −0.119
0.4345 −0.183
0.4369 −0.229
0.4380 −0.251
0.4400 −0.328
0.4410 −0.355
0.4445 −0.450
0.4464 −0.488
0.4476 −0.515
0.4498 −0.545
0.4510 −0.589

2441795 +
0.3872 +0.079
0.3882 +0.033
0.3902 −0.026
0.3911 −0.041
0.3933 −0.076
0.3943 −0.115
0.3961 −0.122
0.3971 −0.169
0.3998 −0.230
0.4017 −0.285
0.4027 −0.320
0.4046 −0.368
0.4056 −0.405
0.4098 −0.488
0.4116 −0.535
0.4124 −0.570
0.4144 −0.602
0.4152 −0.616
0.4183 −0.657
0.4201 −0.698
0.4209 −0.705
0.4230 −0.733
0.4239 −0.747
0.4259 −0.790
0.4270 −0.799
0.4295 −0.815
0.4303 −0.839
0.4319 −0.831
0.4359 −0.868
0.4379 −0.869
0.4390 −0.886
0.4413 −0.890
0.4424 −0.886
0.4445 −0.894
0.4456 −0.883
0.4477 −0.889
0.4489 −0.899
0.4511 −0.885
0.4521 −0.880
0.4545 −0.887
0.4556 −0.869
0.4573 −0.870
0.4582 −0.880

2441799 +
0.3627 −0.216

0.3640 −0.228
0.3665 −0.282
0.3675 −0.333
0.3697 −0.377
0.3707 −0.410
0.3730 −0.446
0.3741 −0.464
0.3761 −0.518
0.3771 −0.543
0.3795 −0.592
0.3806 −0.600
0.3828 −0.651
0.3838 −0.678
0.3866 −0.716
0.3877 −0.725
0.3915 −0.758
0.3939 −0.793
0.3952 −0.808
0.3973 −0.815
0.3986 −0.821
0.4008 −0.840
0.4021 −0.851
0.4046 −0.851
0.4081 −0.884
0.4093 −0.889
0.4115 −0.875
0.4126 −0.878
0.4152 −0.876
0.4183 −0.871
0.4195 −0.850
0.4233 −0.817
0.4252 −0.811
0.4263 −0.814
0.4294 −0.796
0.4315 −0.776
0.4347 −0.756
0.4357 −0.747

2441804 +
0.4488 +0.117
0.4498 +0.109
0.4520 +0.107
0.4554 +0.022
0.4571 +0.005
0.4579 −0.003
0.4597 −0.057
0.4605 −0.071
0.4622 −0.116
0.4630 −0.124
0.4650 −0.181
0.4657 −0.193
0.4674 −0.245
0.4682 −0.271
0.4701 −0.285
0.4709 −0.323
0.4725 −0.366
0.4733 −0.401
0.4751 −0.430
0.4760 −0.446
0.4778 −0.527
0.4786 −0.544
0.4806 −0.577

0.4815 −0.573
0.4832 −0.598
0.4842 −0.600
0.4861 −0.638
0.4871 −0.636
0.4890 −0.664
0.4900 −0.673
0.4919 −0.693
0.4928 −0.687
0.4948 −0.701
0.4957 −0.695
0.4977 −0.721
0.4986 −0.725
0.5006 −0.724
0.5015 −0.731
0.5034 −0.741
0.5042 −0.746
0.5063 −0.750
0.5094 −0.761
0.5103 −0.765
0.5122 −0.770
0.5131 −0.768
0.5179 −0.756
0.5189 −0.750
0.5218 −0.738
0.5252 −0.728
0.5261 −0.741
0.5283 −0.737
0.5293 −0.721
0.5310 −0.732
0.5319 −0.729
0.5336 −0.718
0.5344 −0.716
0.5362 −0.710
0.5370 −0.691
0.5387 −0.686
0.5395 −0.686

2441808 +
0.4586 −0.587
0.4614 −0.623
0.4642 −0.635
0.4649 −0.647
0.4669 −0.630
0.4676 −0.644
0.4691 −0.648
0.4698 −0.645
0.4719 −0.660
0.4726 −0.648
0.4747 −0.663
0.4774 −0.677
0.4781 −0.675
0.4802 −0.680
0.4809 −0.695
0.4836 −0.686
0.4881 −0.690
0.4891 −0.683
0.4944 −0.692
0.4954 −0.687
0.5101 −0.662
0.5111 −0.646
0.5128 −0.650

	0.4681 −0.667	0.4312 +0.184	0.5105 −0.864	0.4630 −0.884
2441816 +	0.4695 −0.660	0.4319 +0.178	0.5113 −0.866	0.4648 −0.903
0.3563 +0.131	0.4709 −0.674	0.4327 +0.175	0.5135 −0.863	0.4657 −0.898
0.3577 +0.142	0.4723 −0.666	0.4344 +0.153	0.5145 −0.875	0.4678 −0.902
0.3598 +0.140	0.4743 −0.661	0.4353 +0.152	0.5154 −0.865	0.4688 −0.911
0.3612 +0.141	0.4757 −0.654	0.4361 +0.138	0.5174 −0.857	0.4717 −0.910
0.3646 +0.107		0.4378 +0.118	0.5182 −0.852	0.4762 −0.903
0.3667 +0.063	2441820 +	0.4386 +0.115	0.5191 −0.839	0.4778 −0.883
0.3681 +0.027	0.3351 +0.085	0.4394 +0.102	0.5211 −0.838	0.4797 −0.864
0.3702 +0.007	0.3362 +0.085	0.4412 +0.070	0.5219 −0.821	0.4807 −0.860
0.3716 −0.016	0.3385 +0.050	0.4420 +0.059	0.5226 −0.822	0.4825 −0.856
0.3751 −0.090	0.3395 +0.033	0.4428 +0.029		0.4834 −0.848
0.3771 −0.103	0.3415 −0.018	0.4446 +0.008	2441829 +	0.4853 −0.824
0.3785 −0.139	0.3446 −0.024	0.4455 −0.004	0.3884 +0.202	0.4860 −0.830
0.3806 −0.170	0.3477 −0.082	0.4464 −0.038	0.3893 +0.207	
0.3820 −0.202	0.3487 −0.117	0.4482 −0.058	0.3906 +0.214	2441833 +
0.3840 −0.249	0.3517 −0.191	0.4490 −0.076	0.3926 +0.204	0.4046 −0.756
0.3854 −0.266	0.3529 −0.211	0.4497 −0.090	0.3934 +0.199	0.4054 −0.767
0.3875 −0.306	0.3551 −0.269	0.4516 −0.159	0.3942 +0.205	0.4069 −0.791
0.3889 −0.355	0.3561 −0.294	0.4524 −0.176	0.3969 +0.172	0.4079 −0.801
0.3910 −0.401	0.3586 −0.320	0.4533 −0.197	0.3994 +0.133	0.4098 −0.816
0.3924 −0.422	0.3597 −0.332	0.4564 −0.272	0.4003 +0.123	0.4107 −0.827
0.3945 −0.432	0.3622 −0.373	0.4572 −0.288	0.4014 +0.135	0.4125 −0.839
0.3957 −0.447	0.3632 −0.392	0.4591 −0.327	0.4045 +0.087	0.4133 −0.844
0.3979 −0.455	0.3691 −0.403	0.4600 −0.344	0.4055 +0.069	0.4153 −0.867
0.3993 −0.454	0.3701 −0.413	0.4609 −0.369	0.4075 +0.013	0.4163 −0.882
0.4014 −0.451	0.3723 −0.452	0.4625 −0.388	0.4084 +0.017	0.4180 −0.895
0.4028 −0.453	0.3736 −0.454	0.4633 −0.407	0.4112 −0.042	0.4189 −0.891
0.4049 −0.477	0.3771 −0.500	0.4641 −0.424	0.4121 −0.053	0.4212 −0.899
0.4063 −0.468	0.3801 −0.508	0.4664 −0.464	0.4162 −0.179	0.4222 −0.893
0.4084 −0.495	0.3814 −0.494	0.4672 −0.481	0.4171 −0.198	0.4241 −0.912
0.4098 −0.486	0.3922 −0.707	0.4683 −0.487	0.4180 −0.234	0.4251 −0.909
0.4132 −0.510	0.3946 −0.730	0.4701 −0.511	0.4189 −0.282	0.4271 −0.910
0.4153 −0.528	0.4028 −0.759	0.4710 −0.518	0.4209 −0.302	0.4280 −0.914
0.4167 −0.568	0.4039 −0.783	0.4718 −0.550	0.4217 −0.310	0.4298 −0.923
0.4202 −0.587	0.4061 −0.777	0.4736 −0.579	0.4236 −0.329	0.4307 −0.913
0.4223 −0.622	0.4098 −0.805	0.4745 −0.582	0.4245 −0.369	0.4329 −0.907
0.4237 −0.632	0.4110 −0.799	0.4754 −0.589	0.4253 −0.367	0.4338 −0.916
0.4257 −0.644	0.4133 −0.807	0.4776 −0.644	0.4275 −0.432	0.4358 −0.898
0.4271 −0.664	0.4144 −0.802	0.4787 −0.652	0.4296 −0.497	0.4367 −0.905
0.4292 −0.687	0.4166 −0.798	0.4795 −0.663	0.4315 −0.520	0.4384 −0.901
0.4306 −0.697	0.4178 −0.802	0.4816 −0.690	0.4322 −0.550	0.4408 −0.883
0.4327 −0.709	0.4200 −0.800	0.4827 −0.710	0.4332 −0.566	0.4428 −0.871
0.4341 −0.709	0.4211 −0.795	0.4837 −0.731	0.4352 −0.606	0.4439 −0.880
0.4362 −0.715	0.4232 −0.780	0.4856 −0.750	0.4360 −0.617	0.4460 −0.846
0.4376 −0.724	0.4242 −0.781	0.4864 −0.767	0.4369 −0.632	0.4467 −0.847
0.4396 −0.735	0.4266 −0.796	0.4873 −0.772	0.4398 −0.686	0.4486 −0.824
0.4410 −0.722	0.4277 −0.790	0.4892 −0.807	0.4407 −0.692	0.4496 −0.822
0.4431 −0.725	0.4300 −0.769	0.4912 −0.817	0.4430 −0.712	
0.4445 −0.738	0.4312 −0.754	0.4933 −0.851	0.4441 −0.726	2441834 +
0.4465 −0.726	0.4340 −0.747	0.4942 −0.845	0.4449 −0.743	0.4952 +0.128
0.4479 −0.721	0.4351 −0.734	0.4953 −0.865	0.4467 −0.772	0.4962 +0.109
0.4500 −0.722	0.4372 −0.717	0.4972 −0.870	0.4475 −0.771	0.4969 +0.107
0.4514 −0.728	0.4415 −0.709	0.4982 −0.873	0.4483 −0.784	0.4986 +0.079
0.4535 −0.724		0.4991 −0.878	0.4505 −0.809	0.4995 +0.073
0.4549 −0.714	2441825 +	0.5014 −0.882	0.4515 −0.813	0.5004 +0.055
0.4570 −0.708	0.4250 +0.219	0.5025 −0.891	0.4525 −0.832	0.5024 +0.001
0.4584 −0.709	0.4258 +0.212	0.5034 −0.886	0.4547 −0.838	0.5032 +0.003
0.4604 −0.696	0.4266 +0.208	0.5053 −0.876	0.4557 −0.857	0.5041 −0.004
0.4639 −0.690	0.4282 +0.197	0.5063 −0.879	0.4565 −0.859	0.5053 −0.050
0.4660 −0.693	0.4289 +0.200	0.5074 −0.879	0.4587 −0.869	0.5060 −0.064
0.4667 −0.683	0.4297 +0.206	0.5095 −0.866	0.4620 −0.883	0.5068 −0.091

0.5101 −0.148
0.5110 −0.166
0.5127 −0.188
0.5136 −0.224
0.5145 −0.251
0.5163 −0.297
0.5172 −0.321
0.5181 −0.339
0.5200 −0.379
0.5208 −0.394
0.5216 −0.425
0.5234 −0.469
0.5242 −0.486
0.5251 −0.497
0.5271 −0.544
0.5280 −0.555
0.5289 −0.584
0.5307 −0.618
0.5316 −0.633
0.5324 −0.646
0.5341 −0.671
0.5350 −0.703
0.5359 −0.709
0.5377 −0.740
0.5387 −0.764
0.5396 −0.777
0.5416 −0.805
0.5427 −0.809
0.5436 −0.812
0.5456 −0.842
0.5465 −0.838
0.5475 −0.854
0.5494 −0.875
0.5503 −0.883
0.5512 −0.894
0.5532 −0.898
0.5543 −0.918
0.5553 −0.910
0.5573 −0.916
0.5584 −0.901
0.5595 −0.904

2441842 +
0.4199 +0.187
0.4214 +0.162
0.4229 +0.155
0.4239 +0.145
0.4247 +0.138
0.4263 +0.104
0.4271 +0.093
0.4279 +0.083
0.4296 +0.078
0.4304 +0.069
0.4312 +0.075
0.4329 +0.049
0.4339 +0.027
0.4347 +0.003
0.4365 −0.053
0.4374 −0.079
0.4382 −0.101
0.4401 −0.141
0.4410 −0.167
0.4417 −0.180
0.4436 −0.218
0.4445 −0.246

2441846 +
0.4002 +0.049
0.4020 +0.022
0.4035 −0.020
0.4045 −0.048
0.4063 −0.095
0.4071 −0.106
0.4089 −0.151
0.4099 −0.195
0.4119 −0.242
0.4129 −0.250
0.4149 −0.297
0.4159 −0.314
0.4179 −0.391
0.4188 −0.399
0.4208 −0.464
0.4217 −0.465
0.4236 −0.522
0.4246 −0.519
0.4267 −0.567
0.4278 −0.571
0.4298 −0.605
0.4308 −0.607
0.4329 −0.650
0.4339 −0.646
0.4359 −0.658
0.4369 −0.670
0.4389 −0.687
0.4399 −0.698
0.4421 −0.719
0.4431 −0.717
0.4451 −0.748
0.4461 −0.750
0.4482 −0.750
0.4493 −0.753
0.4514 −0.766
0.4524 −0.769
0.4546 −0.765
0.4556 −0.768
0.4575 −0.770
0.4586 −0.774
0.4617 −0.767
0.4628 −0.762
0.4651 −0.757
0.4661 −0.751
0.4682 −0.754
0.4691 −0.745
0.4712 −0.740
0.4722 −0.734
0.4741 −0.733
0.4750 −0.736
0.4772 −0.708
0.4784 −0.715
0.4833 −0.702
0.4844 −0.690
0.4868 −0.680

2441850 +
0.3692 +0.044
0.3699 +0.017
0.3722 −0.012
0.3731 −0.009
0.3750 −0.065
0.3759 −0.084
0.3780 −0.112
0.3806 −0.194
0.3815 −0.219
0.3834 −0.243
0.3844 −0.262
0.3863 −0.328
0.3872 −0.340
0.3889 −0.367
0.3897 −0.392
0.3916 −0.404
0.3924 −0.454
0.3944 −0.492
0.3955 −0.498
0.3974 −0.517
0.3984 −0.527
0.4004 −0.539
0.4013 −0.553
0.4032 −0.571
0.4041 −0.572
0.4060 −0.577
0.4070 −0.599
0.4091 −0.608
0.4102 −0.603
0.4133 −0.623
0.4154 −0.629
0.4164 −0.635
0.4184 −0.648
0.4194 −0.648
0.4212 −0.659
0.4221 −0.661
0.4243 −0.665
0.4253 −0.673
0.4276 −0.667
0.4287 −0.681
0.4308 −0.682
0.4318 −0.689
0.4337 −0.691
0.4347 −0.693
0.4366 −0.701
0.4376 −0.701
0.4399 −0.699
0.4409 −0.699
0.4431 −0.678
0.4439 −0.680
0.4462 −0.676
0.4473 −0.679
0.4495 −0.671
0.4504 −0.677
0.4520 −0.679
0.4529 −0.688
0.4549 −0.677
0.4559 −0.674
0.4580 −0.672
0.4590 −0.657

2441854 +
0.3500 −0.115
0.3523 −0.158
0.3533 −0.182
0.3554 −0.227
0.3565 −0.251
0.3585 −0.280
0.3594 −0.293
0.3614 −0.344
0.3624 −0.347
0.3646 −0.399
0.3655 −0.426
0.3676 −0.447
0.3684 −0.452
0.3706 −0.461
0.3715 −0.463
0.3735 −0.479
0.3744 −0.493
0.3762 −0.504
0.3771 −0.506
0.3792 −0.519
0.3801 −0.517
0.3828 −0.541
0.3856 −0.552
0.3875 −0.568
0.3884 −0.571
0.3931 −0.583
0.3939 −0.595
0.3959 −0.610
0.3968 −0.617
0.3987 −0.618
0.3995 −0.621
0.4015 −0.632
0.4023 −0.645
0.4043 −0.652
0.4051 −0.640
0.4095 −0.673
0.4104 −0.667
0.4126 −0.690
0.4135 −0.695
0.4155 −0.674
0.4163 −0.678
0.4184 −0.691
0.4192 −0.698
0.4215 −0.694
0.4223 −0.684
0.4244 −0.687
0.4253 −0.701

2441859 +
0.4343 +0.204
0.4352 +0.197
0.4369 +0.158
0.4378 +0.154
0.4400 +0.136
0.4409 +0.137
0.4433 +0.105
0.4441 +0.107
0.4461 +0.075
0.4487 +0.034
0.4495 +0.025
0.4514 +0.010
0.4522 −0.014
0.4541 −0.044
0.4549 −0.054
0.4570 −0.085
0.4582 −0.126
0.4599 −0.157
0.4607 −0.170
0.4627 −0.219
0.4637 −0.241
0.4653 −0.251
0.4661 −0.284
0.4680 −0.312
0.4690 −0.324
0.4707 −0.329
0.4716 −0.347
0.4741 −0.362
0.4752 −0.371
0.4772 −0.386
0.4782 −0.387
0.4802 −0.409
0.4811 −0.416
0.4853 −0.457
0.4875 −0.491
0.4885 −0.504
0.4896 −0.505
0.4921 −0.534
0.4932 −0.540
0.4964 −0.574
0.4975 −0.586
0.4986 −0.616
0.4997 −0.640
0.5020 −0.669
0.5030 −0.671
0.5054 −0.690
0.5064 −0.699
0.5084 −0.727
0.5094 −0.720
0.5117 −0.740
0.5127 −0.745
0.5149 −0.744
0.5159 −0.749
0.5209 −0.764
0.5219 −0.764
0.5246 −0.769
0.5256 −0.777
0.5284 −0.780
0.5295 −0.775
0.5322 −0.766
0.5334 −0.764
0.5355 −0.757
0.5365 −0.750

2441867 +
0.3716 +0.192
0.3723 +0.189
0.3736 +0.191
0.3743 +0.181
0.3757 +0.163
0.3764 +0.161
0.3778 +0.157
0.3786 +0.151
0.3800 +0.139
0.3807 +0.120

0.3822 +0.116
0.3829 +0.103
0.3845 +0.081
0.3851 +0.055
0.3867 +0.046
0.3873 +0.040
0.3890 +0.010
0.3897 +0.005
0.3912 −0.020
0.3919 −0.055
0.3936 −0.093
0.3943 −0.113
0.3961 −0.130
0.3968 −0.165
0.3983 −0.172
0.3990 −0.192
0.4004 −0.215
0.4012 −0.244
0.4029 −0.284
0.4036 −0.327
0.4050 −0.336
0.4057 −0.356
0.4078 −0.401
0.4095 −0.418
0.4102 −0.443
0.4118 −0.493
0.4125 −0.495
0.4133 −0.531
0.4140 −0.539
0.4161 −0.558
0.4183 −0.590
0.4190 −0.596
0.4206 −0.613
0.4213 −0.617
0.4226 −0.652
0.4233 −0.663
0.4250 −0.656
0.4257 −0.675
0.4277 −0.720
0.4292 −0.713
0.4299 −0.721
0.4320 −0.772
0.4336 −0.799
0.4343 −0.806
0.4358 −0.828
0.4368 −0.830
0.4383 −0.835
0.4390 −0.836
0.4407 −0.847
0.4414 −0.850
0.4430 −0.864
0.4437 −0.874
0.4453 −0.880
0.4460 −0.888
0.4473 −0.871
0.4480 −0.874
0.4495 −0.883
0.4518 −0.893
0.4636 −0.868
0.4644 −0.860
0.4659 −0.874
0.4667 −0.868
0.4683 −0.847
0.4690 −0.838
0.4706 −0.813
0.4714 −0.803
0.4730 −0.793

2441872 +
0.4633 +0.202
0.4641 +0.206
0.4660 +0.204
0.4668 +0.201
0.4687 +0.200
0.4695 +0.196
0.4715 +0.172
0.4725 +0.149
0.4751 +0.124
0.4660 +0.204
0.4668 +0.201
0.4687 +0.200
0.4695 +0.196
0.4715 +0.172
0.4724 +0.149
0.4751 +0.124
0.4759 +0.119
0.4783 +0.109
0.4813 +0.074
0.4822 +0.034
0.4841 +0.032
0.4850 −0.005
0.4869 −0.061
0.4877 −0.069
0.4898 −0.108
0.4907 −0.126
0.4927 −0.151
0.4937 −0.184
0.4957 −0.242
0.4966 −0.266
0.4987 −0.317
0.4996 −0.338
0.5017 −0.392
0.5028 −0.423
0.5045 −0.454
0.5072 −0.519
0.5082 −0.540
0.5101 −0.575
0.5109 −0.604
0.5127 −0.637
0.5136 −0.653
0.5155 −0.685
0.5165 −0.703
0.5187 −0.715
0.5197 −0.741
0.5217 −0.779
0.5226 −0.790
0.5247 −0.809
0.5256 −0.812
0.5279 −0.840
0.5288 −0.853
0.5307 −0.853
0.5315 −0.876
0.5336 −0.875
0.5360 −0.889
0.5380 −0.909
0.5389 −0.922
0.5409 −0.933
0.5418 −0.935
0.5439 −0.912
0.5449 −0.916
0.5468 −0.906
0.5475 −0.900
0.5504 −0.886
0.5527 −0.882

2441876 +
0.4394 +0.145
0.4402 +0.142
0.4425 +0.085
0.4434 +0.074
0.4451 +0.029
0.4476 −0.001
0.4486 −0.018
0.4558 −0.196
0.4583 −0.237
0.4600 −0.299
0.4609 −0.327
0.4629 −0.395
0.4637 −0.396
0.4674 −0.500
0.4692 −0.524
0.4700 −0.554
0.4719 −0.590
0.4730 −0.606
0.4747 −0.649
0.4756 −0.668
0.4775 −0.684
0.4795 −0.743
0.4813 −0.764
0.4822 −0.767
0.4843 −0.784
0.4854 −0.795
0.4872 −0.831
0.4881 −0.839
0.4901 −0.860
0.4909 −0.863
0.4929 −0.884
0.4939 −0.877
0.4957 −0.898
0.4968 −0.904
0.4988 −0.895
0.4998 −0.905
0.5021 −0.920
0.5030 −0.921
0.5049 −0.902
0.5059 −0.903
0.5078 −0.903
0.5087 −0.898
0.5105 −0.909
0.5130 −0.890
0.5148 −0.880
0.5157 −0.873
0.5176 −0.858
0.5184 −0.848

2441880 +
0.3971 +0.173
0.3979 +0.167
0.3997 +0.179
0.4005 +0.164
0.4031 +0.135
0.4039 +0.119
0.4057 +0.101
0.4066 +0.092
0.4083 +0.065
0.4092 +0.065
0.4111 +0.038
0.4120 +0.016
0.4144 −0.045
0.4154 −0.052
0.4174 −0.103
0.4182 −0.138
0.4201 −0.178
0.4210 −0.205
0.4230 −0.263
0.4241 −0.284
0.4263 −0.357
0.4272 −0.375
0.4302 −0.441
0.4311 −0.488
0.4321 −0.504
0.4330 −0.535
0.4358 −0.576
0.4381 −0.625
0.4389 −0.650
0.4413 −0.673
0.4423 −0.694
0.4445 −0.716
0.4455 −0.721
0.4473 −0.767
0.4482 −0.772
0.4503 −0.782
0.4512 −0.807
0.4535 −0.830
0.4545 −0.840
0.4566 −0.857
0.4577 −0.866
0.4596 −0.874
0.4607 −0.873
0.4628 −0.879
0.4637 −0.874
0.4658 −0.881
0.4667 −0.882
0.4689 −0.882
0.4700 −0.882
0.4720 −0.881
0.4730 −0.872
0.4756 −0.870
0.4767 −0.860
0.4787 −0.852
0.4798 −0.851
0.4822 −0.822
0.4833 −0.822
0.4858 −0.810
0.4869 −0.800

2441884 +
0.4327 −0.848
0.4337 −0.825
0.4354 −0.837
0.4363 −0.828
0.4381 −0.823
0.4389 −0.819
0.4408 −0.829
0.4417 −0.819
0.4434 −0.806
0.4443 −0.787
0.4460 −0.793
0.4486 −0.785
0.4494 −0.773
0.4513 −0.778
0.4522 −0.770
0.4567 −0.765
0.4576 −0.757
0.4595 −0.740
0.4604 −0.715
0.4625 −0.717
0.4634 −0.722

2441893 +
0.4592 −0.172
0.4628 −0.256
0.4642 −0.305
0.4656 −0.325
0.4672 −0.369
0.4680 −0.390
0.4698 −0.417
0.4706 −0.422
0.4722 −0.444
0.4730 −0.467
0.4746 −0.488
0.4754 −0.497
0.4890 −0.574
0.4904 −0.588
0.4920 −0.596
0.4929 −0.596
0.4944 −0.587
0.4962 −0.595
0.4971 −0.597
0.4986 −0.604
0.4994 −0.609
0.5010 −0.616
0.5019 −0.623
0.5036 −0.637
0.5046 −0.641
0.5062 −0.636
0.5071 −0.647
0.5089 −0.643
0.5097 −0.654
0.5114 −0.650
0.5122 −0.664
0.5168 −0.676
0.5178 −0.669
0.5197 −0.665
0.5206 −0.679
0.5225 −0.672
0.5235 −0.674
0.5254 −0.663
0.5263 −0.667
0.5283 −0.669

0.5292 −0.669
0.5310 −0.656
0.5320 −0.660
0.5337 −0.653
0.5345 −0.664
0.5364 −0.667
0.5373 −0.663
0.5392 −0.661
0.5401 −0.667
0.5420 −0.659
0.5428 −0.658

2441896 +
0.3418 −0.570
0.3434 −0.589
0.3442 −0.604
0.3459 −0.618
0.3468 −0.604
0.3482 −0.627
0.3490 −0.626
0.3507 −0.628
0.3515 −0.640
0.3558 −0.654
0.3573 −0.665
0.3589 −0.662
0.3621 −0.676
0.3654 −0.681
0.3687 −0.681
0.3732 −0.692
0.3749 −0.690
0.3783 −0.682
0.3801 −0.681
0.3819 −0.687
0.3837 −0.671
0.3853 −0.671
0.3871 −0.663
0.3889 −0.646
0.3907 −0.657
0.3926 −0.644

2441897 +
0.4097 +0.171
0.4133 +0.153
0.4151 +0.111
0.4169 +0.113
0.4186 +0.084
0.4205 +0.070
0.4222 +0.034
0.4241 −0.004
0.4258 −0.018
0.4277 −0.047
0.4295 −0.084
0.4313 −0.132
0.4333 −0.164
0.4350 −0.227

2441901 +
0.3808 +0.192
0.3816 +0.192
0.3824 +0.187
0.3842 +0.180
0.3850 +0.165
0.3858 +0.152
0.3874 +0.145
0.3882 +0.141
0.3890 +0.132
0.3908 +0.105
0.3916 +0.086
0.3924 +0.087
0.3943 +0.055
0.3969 +0.025
0.3978 +0.005
0.3996 −0.039
0.4005 −0.052
0.4024 −0.091
0.4033 −0.099
0.4052 −0.126
0.4060 −0.153
0.4079 −0.193
0.4088 −0.218
0.4115 −0.279
0.4124 −0.292
0.4132 −0.299
0.4152 −0.340
0.4160 −0.345
0.4168 −0.363
0.4187 −0.373
0.4197 −0.385
0.4205 −0.386
0.4224 −0.397
0.4234 −0.394
0.4258 −0.421
0.4267 −0.427
0.4286 −0.449
0.4295 −0.455
0.4304 −0.468
0.4324 −0.476
0.4336 −0.484
0.4344 −0.504
0.4363 −0.532
0.4373 −0.533
0.4397 −0.562
0.4407 −0.576
0.4430 −0.622
0.4437 −0.620
0.4459 −0.640
0.4468 −0.646
0.4489 −0.665
0.4497 −0.692
0.4517 −0.698
0.4526 −0.696
0.4536 −0.697
0.4556 −0.724
0.4566 −0.727
0.4604 −0.753
0.4615 −0.766
0.4636 −0.752
0.4646 −0.752
0.4656 −0.762
0.4678 −0.770
0.4690 −0.771
0.4699 −0.786
0.4728 −0.776
0.4739 −0.771
0.4749 −0.764
0.4771 −0.767
0.4781 −0.769
0.4791 −0.769
0.4813 −0.756
0.4823 −0.751
0.4832 −0.750

2441905 +
0.3512 +0.219
0.3522 +0.204
0.3541 +0.185
0.3551 +0.174
0.3572 +0.162
0.3581 +0.153
0.3599 +0.144
0.3608 +0.116
0.3629 +0.080
0.3638 +0.073
0.3658 +0.049
0.3667 +0.027
0.3689 −0.011
0.3699 −0.029
0.3718 −0.069
0.3726 −0.087
0.3746 −0.124
0.3755 −0.136
0.3773 −0.183
0.3782 −0.195
0.3801 −0.248
0.3811 −0.268
0.3835 −0.304
0.3846 −0.325
0.3865 −0.356
0.3874 −0.368
0.3896 −0.411
0.3904 −0.419
0.3924 −0.451
0.3934 −0.462
0.3954 −0.462
0.3963 −0.478
0.3980 −0.502
0.3990 −0.506
0.4010 −0.551
0.4019 −0.562
0.4039 −0.593
0.4049 −0.607
0.4070 −0.639
0.4080 −0.659
0.4100 −0.678
0.4111 −0.695
0.4134 −0.722
0.4144 −0.727
0.4178 −0.767
0.4188 −0.781
0.4209 −0.802
0.4219 −0.816
0.4237 −0.824
0.4248 −0.820
0.4268 −0.828
0.4277 −0.838
0.4298 −0.850
0.4308 −0.856
0.4347 −0.861
0.4358 −0.844
0.4379 −0.843
0.4389 −0.850
0.4410 −0.839
0.4419 −0.837
0.4440 −0.833
0.4451 −0.821
0.4470 −0.816
0.4479 −0.806
0.4500 −0.795
0.4510 −0.792

2441906 +
0.4893 +0.184
0.4902 +0.154
0.4911 +0.153
0.4929 +0.142
0.4937 +0.136
0.4945 +0.117
0.4965 +0.114
0.4973 +0.082
0.4982 +0.074
0.4998 +0.054
0.5006 +0.047
0.5014 +0.041
0.5032 −0.010
0.5041 −0.020
0.5050 −0.044
0.5070 −0.090
0.5078 −0.107
0.5086 −0.143
0.5107 −0.174
0.5116 −0.198
0.5125 −0.235
0.5144 −0.284
0.5154 −0.285
0.5162 −0.301
0.5181 −0.323
0.5190 −0.350
0.5202 −0.371
0.5220 −0.396
0.5228 −0.395
0.5238 −0.425
0.5259 −0.460
0.5269 −0.459
0.5279 −0.465
0.5298 −0.488
0.5307 −0.507
0.5317 −0.531
0.5339 −0.564
0.5350 −0.583
0.5360 −0.600
0.5396 −0.651
0.5405 −0.672
0.5413 −0.673
0.5430 −0.692
0.5439 −0.710
0.5450 −0.723
0.5467 −0.745
0.5476 −0.757
0.5486 −0.779
0.5519 −0.810
0.5527 −0.816
0.5536 −0.824
0.5554 −0.834
0.5564 −0.837
0.5574 −0.838
0.5594 −0.839
0.5604 −0.843
0.5612 −0.852
0.5630 −0.853
0.5640 −0.858
0.5648 −0.855
0.5665 −0.869
0.5676 −0.867

2441910 +
0.4527 +0.178
0.4545 +0.148
0.4562 +0.141
0.4578 +0.115
0.4635 +0.058
0.4644 +0.033
0.4661 −0.006
0.4678 −0.036
0.4688 −0.053
0.4703 −0.103
0.4720 −0.141
0.4810 −0.362
0.4828 −0.382
0.4864 −0.439
0.4901 −0.508
0.4918 −0.553
0.4934 −0.567
0.4951 −0.595
0.4972 −0.631
0.4979 −0.642
0.4996 −0.669
0.5004 −0.678
0.5025 −0.713
0.5034 −0.716
0.5053 −0.732
0.5064 −0.745
0.5095 −0.815
0.5114 −0.831
0.5132 −0.843
0.5149 −0.862
0.5168 −0.868
0.5197 −0.863
0.5236 −0.866
0.5266 −0.864
0.5287 −0.829
0.5306 −0.789
0.5324 −0.789

2441913 +
0.2989 −0.030
0.3004 −0.081
0.3011 −0.087
0.3029 −0.119
0.3038 −0.137
0.3057 −0.191

Table 4.

0.3065 −0.209
0.3083 −0.254
0.3095 −0.278
0.3112 −0.316
0.3128 −0.359
0.3136 −0.369
0.3154 −0.432
0.3164 −0.442
0.3188 −0.511
0.3198 −0.531
0.3215 −0.565
0.3224 −0.581
0.3241 −0.630
0.3251 −0.640
0.3272 −0.691
0.3282 −0.695
0.3302 −0.728
0.3346 −0.792
0.3410 −0.850
0.3429 −0.879
0.3450 −0.900
0.3469 −0.900
0.3522 −0.916
0.3543 −0.927
0.3563 −0.921
0.3581 −0.926
0.3600 −0.904
0.3619 −0.917
0.3637 −0.909
0.3657 −0.890
0.3677 −0.876
0.3698 −0.875
0.3764 −0.817
0.3786 −0.812
0.3806 −0.799
0.3827 −0.778
0.3848 −0.774
0.3869 −0.743
0.3889 −0.742
0.3908 −0.735

2441914 +
0.4147 +0.182
0.4156 +0.175
0.4175 +0.164
0.4186 +0.162
0.4207 +0.153
0.4216 +0.123
0.4236 +0.097
0.4245 +0.074
0.4265 +0.060
0.4285 +0.017
0.4302 −0.004
0.4312 −0.036
0.4330 −0.089
0.4340 −0.091
0.4359 −0.147
0.4380 −0.202
0.4392 −0.234
0.4413 −0.260
0.4423 −0.283
0.4445 −0.364

0.4455 −0.382
0.4476 −0.446
0.4486 −0.460
0.4508 −0.498
0.4518 −0.518
0.4540 −0.572
0.4550 −0.581
0.4575 −0.641
0.4586 −0.661
0.4609 −0.701
0.4619 −0.722
0.4642 −0.739
0.4661 −0.773
0.4685 −0.804
0.4705 −0.810
0.4741 −0.863
0.4762 −0.877
0.4783 −0.894
0.4804 −0.893
0.4823 −0.902
0.4839 −0.906
0.4864 −0.902
0.4887 −0.906

2441918 +
0.3980 −0.130
0.3991 −0.160
0.4048 −0.277
0.4069 −0.357
0.4091 −0.404
0.4149 −0.545
0.4171 −0.595
0.4194 −0.638
0.4216 −0.674
0.4238 −0.729
0.4263 −0.761
0.4284 −0.794
0.4306 −0.819
0.4329 −0.831
0.4360 −0.870

2441922 +
0.3457 +0.139
0.3467 +0.129
0.3492 +0.130
0.3503 +0.106
0.3529 +0.065
0.3539 +0.042
0.3571 +0.016
0.3581 −0.013
0.3605 −0.066
0.3615 −0.103
0.3640 −0.160
0.3652 −0.205
0.3677 −0.298
0.3689 −0.326
0.3727 −0.433
0.3749 −0.466
0.3759 −0.493
0.3784 −0.556
0.3794 −0.565
0.3821 −0.589

0.3831 −0.620
0.3853 −0.657
0.3863 −0.679
0.3890 −0.747
0.3916 −0.753
0.3941 −0.804
0.3962 −0.843
0.3992 −0.861
0.4017 −0.865
0.4048 −0.874
0.4073 −0.881
0.4098 −0.891
0.4123 −0.886
0.4187 −0.853
0.4217 −0.854
0.4239 −0.829
0.4267 −0.809
0.4291 −0.804
0.4314 −0.791

2441930 +
0.2873 +0.099
0.2882 +0.051
0.2892 +0.029
0.2912 −0.015
0.2921 −0.037
0.2929 −0.064
0.2949 −0.097
0.2958 −0.108
0.2967 −0.136
0.2989 −0.186
0.2998 −0.202
0.3009 −0.238
0.3030 −0.288
0.3038 −0.297
0.3057 −0.370
0.3066 −0.396
0.3087 −0.448
0.3097 −0.446
0.3119 −0.505
0.3129 −0.514
0.3150 −0.561
0.3160 −0.576
0.3179 −0.585
0.3188 −0.603
0.3210 −0.620
0.3219 −0.629
0.3239 −0.648
0.3249 −0.659
0.3279 −0.669
0.3297 −0.690
0.3306 −0.694
0.3326 −0.695
0.3337 −0.704
0.3399 −0.722
0.3428 −0.727
0.3446 −0.727
0.3467 −0.732
0.3500 −0.725
0.3519 −0.738
0.3527 −0.731
0.3545 −0.730

0.3575 −0.728
0.3609 −0.705
0.3671 −0.691
0.3690 −0.678
0.3708 −0.677
0.3728 −0.658
0.3752 −0.629

2441931 +
0.4157 +0.118
0.4165 +0.124
0.4181 +0.100
0.4188 +0.088
0.4196 +0.069
0.4212 +0.045
0.4220 +0.038
0.4228 +0.029
0.4245 +0.012
0.4252 −0.009
0.4260 −0.030
0.4278 −0.070
0.4285 −0.082
0.4294 −0.103
0.4311 −0.140
0.4320 −0.161
0.4326 −0.182
0.4342 −0.209
0.4350 −0.226
0.4358 −0.246
0.4373 −0.284
0.4381 −0.314
0.4389 −0.330
0.4406 −0.367
0.4415 −0.386
0.4423 −0.394
0.4446 −0.458
0.4457 −0.474
0.4464 −0.493
0.4482 −0.514
0.4489 −0.521
0.4498 −0.527
0.4514 −0.557
0.4521 −0.562
0.4530 −0.568
0.4547 −0.586
0.4555 −0.593
0.4564 −0.595
0.4582 −0.610
0.4591 −0.627
0.4600 −0.632
0.4619 −0.623
0.4627 −0.645
0.4636 −0.646
0.4654 −0.644
0.4663 −0.650
0.4671 −0.657
0.4693 −0.665
0.4703 −0.666
0.4712 −0.678
0.4733 −0.679
0.4742 −0.673
0.4752 −0.681

0.4770 −0.687
0.4778 −0.695
0.4787 −0.691
0.4809 −0.698
0.4817 −0.701
0.4826 −0.707
0.4864 −0.702
0.4873 −0.698
0.4881 −0.696
0.4900 −0.693
0.4908 −0.693
0.4916 −0.694

2441934 +
0.2637 −0.022
0.2655 −0.060
0.2665 −0.082
0.2685 −0.117
0.2694 −0.110
0.2715 −0.178
0.2725 −0.179
0.2743 −0.248
0.2752 −0.264
0.2768 −0.308
0.2777 −0.335
0.2797 −0.380
0.2806 −0.397
0.2826 −0.427
0.2835 −0.449
0.2854 −0.467
0.2866 −0.496
0.2884 −0.504
0.2893 −0.506
0.2913 −0.527
0.2925 −0.520
0.2944 −0.530
0.2952 −0.546
0.2973 −0.554
0.2982 −0.572
0.3003 −0.574
0.3012 −0.580
0.3030 −0.576
0.3041 −0.584
0.3059 −0.602
0.3069 −0.606
0.3110 −0.608
0.3120 −0.609
0.3138 −0.620
0.3165 −0.624
0.3175 −0.630
0.3195 −0.632
0.3204 −0.641
0.3223 −0.637
0.3232 −0.653
0.3255 −0.643
0.3286 −0.666
0.3343 −0.669
0.3352 −0.670
0.3371 −0.676
0.3380 −0.670
0.3399 −0.667
0.3412 −0.663

Table 4.

0.3432 −0.664
0.3442 −0.663

2441935 +
0.3953 +0.027
0.3980 −0.019
0.3989 −0.041
0.4007 −0.076
0.4017 −0.084
0.4036 −0.111
0.4045 −0.134
0.4061 −0.173
0.4071 −0.200
0.4088 −0.227
0.4096 −0.250
0.4114 −0.296
0.4123 −0.319
0.4142 −0.352
0.4150 −0.354
0.4179 −0.386
0.4202 −0.421
0.4212 −0.444
0.4230 −0.495

2441938 +
0.2546 −0.371
0.2566 −0.384
0.2577 −0.413
0.2611 −0.425
0.2620 −0.440
0.2638 −0.448
0.2649 −0.459
0.2668 −0.461
0.2678 −0.480
0.2696 −0.481
0.2707 −0.492
0.2728 −0.490
0.2738 −0.496
0.2758 −0.506
0.2768 −0.509
0.2790 −0.529
0.2800 −0.536
0.2820 −0.539
0.2829 −0.548
0.2862 −0.586
0.2872 −0.578
0.2893 −0.605
0.2903 −0.608
0.2922 −0.642
0.2932 −0.640
0.2987 −0.676
0.3025 −0.684
0.3037 −0.691
0.3057 −0.699
0.3066 −0.700
0.3084 −0.704
0.3096 −0.709
0.3119 −0.710
0.3130 −0.709
0.3152 −0.698
0.3165 −0.698
0.3185 −0.696

0.3197 −0.698
0.3218 −0.688
0.3228 −0.704
0.3258 −0.690
0.3280 −0.688
0.3291 −0.681
0.3309 −0.667
0.3318 −0.656
0.3340 −0.659
0.3351 −0.643

2441939 +
0.3683 +0.025
0.3700 −0.008
0.3708 −0.016
0.3725 −0.040
0.3734 −0.062
0.3751 −0.088
0.3761 −0.110
0.3780 −0.136
0.3788 −0.170
0.3807 −0.202
0.3816 −0.213
0.3832 −0.271
0.3842 −0.270
0.3862 −0.301
0.3872 −0.310
0.3889 −0.346
0.3899 −0.345
0.3917 −0.377
0.3927 −0.374
0.3949 −0.404
0.3959 −0.418
0.3976 −0.419
0.3985 −0.418
0.4003 −0.417
0.4014 −0.414
0.4034 −0.430
0.4045 −0.445
0.4065 −0.456
0.4074 −0.470

2441942 +
0.2577 −0.622
0.2607 −0.654
0.2617 −0.663
0.2645 −0.710
0.2655 −0.710
0.2673 −0.733
0.2683 −0.744
0.2702 −0.747
0.2711 −0.752
0.2741 −0.760
0.2760 −0.769
0.2770 −0.767
0.2822 −0.754
0.2833 −0.760
0.2863 −0.761
0.2883 −0.753
0.2897 −0.749
0.2918 −0.758
0.2928 −0.756

0.2958 −0.750
0.2980 −0.734
0.2990 −0.736
0.3010 −0.740
0.3021 −0.732
0.3040 −0.721
0.3051 −0.699
0.3070 −0.698
0.3080 −0.689
0.3099 −0.683
0.3109 −0.675

2441955 +
0.2326 +0.124
0.2344 +0.111
0.2368 +0.085
0.2378 +0.068
0.2398 +0.022
0.2407 +0.019
0.2426 −0.028
0.2435 −0.066
0.2454 −0.102
0.2464 −0.115
0.2483 −0.153
0.2510 −0.220
0.2519 −0.231
0.2537 −0.291
0.2546 −0.322
0.2564 −0.364
0.2591 −0.411
0.2601 −0.451
0.2620 −0.490
0.2629 −0.533
0.2649 −0.561
0.2659 −0.592
0.2677 −0.619
0.2685 −0.629
0.2715 −0.684
0.2724 −0.692
0.2740 −0.727
0.2768 −0.747
0.2798 −0.811
0.2806 −0.816
0.2835 −0.857
0.2869 −0.879
0.2881 −0.887
0.2890 −0.914
0.2908 −0.918
0.2919 −0.923
0.2961 −0.920
0.2970 −0.926
0.2990 −0.913
0.3001 −0.919
0.3021 −0.915
0.3063 −0.892
0.3082 −0.898
0.3092 −0.876
0.3110 −0.889
0.3120 −0.885
0.3139 −0.866
0.3147 −0.870

2441959 +
0.2390 −0.767
0.2399 −0.796
0.2419 −0.819
0.2429 −0.813
0.2449 −0.845
0.2458 −0.870
0.2478 −0.886
0.2488 −0.897
0.2511 −0.916
0.2521 −0.932
0.2554 −0.934
0.2572 −0.953
0.2596 −0.941
0.2619 −0.937
0.2640 −0.925
0.2659 −0.911
0.2680 −0.908
0.2700 −0.894
0.2761 −0.840
0.2789 −0.825
0.2799 −0.821
0.2819 −0.819

2441960 +
0.3299 +0.124
0.3307 +0.117
0.3322 +0.075
0.3331 +0.077
0.3345 +0.041
0.3354 +0.037
0.3371 +0.007
0.3379 −0.035
0.3397 −0.068
0.3405 −0.088
0.3422 −0.122
0.3447 −0.200
0.3455 −0.202
0.3481 −0.282
0.3490 −0.313
0.3512 −0.384
0.3521 −0.406
0.3541 −0.449
0.3551 −0.481
0.3569 −0.532
0.3578 −0.541
0.3597 −0.584
0.3605 −0.603
0.3623 −0.639
0.3632 −0.651
0.3663 −0.703
0.3685 −0.739
0.3697 −0.765
0.3717 −0.808
0.3728 −0.805
0.3769 −0.840
0.3778 −0.862
0.3801 −0.878
0.3813 −0.888
0.3836 −0.895
0.3847 −0.903
0.3871 −0.930

0.3882 −0.927
0.3905 −0.928
0.3921 −0.922
0.3942 −0.922
0.3953 −0.910
0.3973 −0.908

2441963 +
0.2133 −0.874
0.2162 −0.890
0.2187 −0.901
0.2235 −0.887
0.2273 −0.868
0.2298 −0.860
0.2312 −0.852
0.2353 −0.842
0.2364 −0.845
0.2388 −0.829
0.2401 −0.829

2441965 +
0.4268 +0.062
0.4278 +0.054
0.4301 +0.043
0.4314 +0.034
0.4338 +0.007
0.4351 −0.010
0.4372 −0.067
0.4384 −0.112
0.4409 −0.168
0.4422 −0.198
0.4449 −0.263
0.4461 −0.307
0.4483 −0.362
0.4496 −0.384
0.4518 −0.477
0.4529 −0.519

2441980 +
0.2044 −0.383
0.2053 −0.401
0.2072 −0.407
0.2082 −0.425
0.2098 −0.417
0.2108 −0.432
0.2134 −0.434
0.2142 −0.450
0.2162 −0.444
0.2173 −0.456
0.2191 −0.469
0.2202 −0.465
0.2228 −0.470
0.2245 −0.496
0.2255 −0.497
0.2273 −0.510
0.2283 −0.506
0.2301 −0.532
0.2308 −0.536
0.2323 −0.544
0.2331 −0.559
0.2356 −0.592
0.2372 −0.604

0.2382 −0.612
0.2400 −0.644
0.2415 −0.650
0.2433 −0.666
0.2442 −0.671
0.2460 −0.677
0.2469 −0.684
0.2488 −0.681
0.2498 −0.706
0.2516 −0.696
0.2526 −0.700
0.2544 −0.697
0.2554 −0.700
0.2571 −0.724
0.2581 −0.711
0.2595 −0.733
0.2602 −0.729
0.2616 −0.727
0.2623 −0.715
0.2641 −0.720
0.2651 −0.725
0.2669 −0.718
0.2676 −0.721
0.2692 −0.719
0.2701 −0.711
0.2717 −0.701
0.2724 −0.690
0.2743 −0.685
0.2752 −0.689
0.2767 −0.691
0.2774 −0.682
0.2794 −0.667
0.2804 −0.670
0.2828 −0.667
0.2849 −0.656
0.2863 −0.648
0.2873 −0.651
0.2891 −0.652
0.2901 −0.632
0.2919 −0.624
0.2926 −0.623

2441981 +
0.3073 +0.142
0.3081 +0.121
0.3098 +0.121
0.3106 +0.112
0.3125 +0.082
0.3135 +0.059
0.3154 +0.031
0.3162 +0.032
0.3180 −0.005
0.3189 −0.019
0.3205 −0.043
0.3232 −0.099
0.3260 −0.140
0.3270 −0.176
0.3289 −0.210
0.3297 −0.237
0.3317 −0.277
0.3325 −0.303
0.3352 −0.321
0.3375 −0.341
0.3384 −0.364
0.3401 −0.375
0.3410 −0.388

2441984 +
0.2006 −0.588
0.2016 −0.599
0.2052 −0.665
0.2070 −0.686
0.2085 −0.710
0.2130 −0.734
0.2149 −0.750
0.2190 −0.770
0.2206 −0.776
0.2224 −0.783
0.2241 −0.788
0.2276 −0.786
0.2294 −0.783
0.2315 −0.768
0.2331 −0.774
0.2350 −0.777
0.2369 −0.771
0.2386 −0.755
0.2404 −0.763
0.2422 −0.766
0.2442 −0.762
0.2462 −0.733
0.2481 −0.722

2441985 +
0.2831 +0.120
0.2839 +0.089
0.2854 +0.082
0.2863 +0.070
0.2879 +0.030
0.2906 −0.028
0.2937 −0.075
0.2951 −0.114
0.2968 −0.150
0.2983 −0.173
0.2999 −0.215
0.3015 −0.251
0.3048 −0.313
0.3066 −0.322

2441989 +
0.2464 +0.177
0.2472 +0.157
0.2490 +0.153
0.2499 +0.132
0.2515 +0.126
0.2523 +0.116
0.2545 +0.074
0.2554 +0.056
0.2579 +0.026
0.2594 +0.027
0.2604 +0.006
0.2621 −0.039
0.2630 −0.064
0.2647 −0.117
0.2656 −0.130
0.2679 −0.185
0.2688 −0.205
0.2714 −0.257
0.2724 −0.271
0.2744 −0.318
0.2753 −0.357
0.2772 −0.391
0.2782 −0.410
0.2802 −0.427
0.2810 −0.458
0.2829 −0.473
0.2843 −0.494
0.2865 −0.532
0.2872 −0.547
0.2891 −0.588
0.2900 −0.600
0.2918 −0.626
0.2926 −0.635
0.2945 −0.656
0.2954 −0.671
0.2972 −0.691
0.2981 −0.710
0.3000 −0.733
0.3010 −0.742
0.3032 −0.772
0.3042 −0.781
0.3060 −0.787
0.3069 −0.817
0.3089 −0.822
0.3098 −0.838
0.3116 −0.853
0.3125 −0.855
0.3143 −0.864
0.3153 −0.868
0.3175 −0.884
0.3183 −0.882
0.3204 −0.872
0.3214 −0.878
0.3233 −0.876
0.3246 −0.886
0.3263 −0.874
0.3271 −0.862
0.3292 −0.868
0.3301 −0.873
0.3318 −0.862
0.3326 −0.854
0.3343 −0.847
0.3352 −0.845
0.3371 −0.841
0.3379 −0.833

2441997 +
0.2209 −0.807
0.2219 −0.821
0.2252 −0.898
0.2272 −0.909
0.2302 −0.938
0.2334 −0.929
0.2346 −0.942
0.2399 −0.960
0.2409 −0.956
0.2428 −0.947
0.2438 −0.944
0.2489 −0.925
0.2499 −0.916
0.2522 −0.908

2441998 +
0.3127 +0.102
0.3148 +0.033
0.3167 +0.021
0.3186 −0.024
0.3223 −0.098
0.3240 −0.124
0.3277 −0.230
0.3295 −0.262
0.3339 −0.394

2442001 +
0.1974 −0.915
0.2004 −0.922
0.2025 −0.910
0.2044 −0.926
0.2063 −0.917
0.2102 −0.911
0.2118 −0.892
0.2136 −0.859
0.2154 −0.860
0.2188 −0.847
0.2202 −0.831
0.2221 −0.814
0.2257 −0.790
0.2273 −0.785
0.2291 −0.795

2442094 +
0.6499 +0.184
0.6509 +0.170
0.6531 +0.174
0.6550 +0.181
0.6558 +0.164
0.6587 +0.157
0.6625 +0.107
0.6642 +0.072
0.6662 +0.055
0.6679 +0.012
0.6698 −0.019
0.6717 −0.038
0.6735 −0.073
0.6754 −0.107
0.6773 −0.153
0.6791 −0.229
0.6809 −0.272
0.6825 −0.308
0.6849 −0.373
0.6884 −0.474
0.6902 −0.508

2442098 +
0.6258 +0.213
0.6267 +0.206
0.6289 +0.186
0.6299 +0.173
0.6318 +0.146
0.6329 +0.124
0.6360 +0.096
0.6380 +0.069
0.6392 +0.033
0.6412 +0.008
0.6421 −0.015
0.6449 −0.033
0.6460 −0.068
0.6480 −0.114
0.6490 −0.119
0.6511 −0.167
0.6521 −0.184
0.6541 −0.258
0.6551 −0.270
0.6572 −0.320
0.6582 −0.353
0.6606 −0.403
0.6617 −0.428
0.6626 −0.437
0.6644 −0.438
0.6654 −0.457
0.6677 −0.470
0.6687 −0.464
0.6697 −0.492
0.6716 −0.497

2442106 +
0.5677 +0.270
0.5697 +0.255
0.5772 +0.206
0.5792 +0.168
0.5812 +0.147
0.5831 +0.101
0.5853 +0.090
0.5879 +0.035
0.5899 +0.016
0.5921 +0.006
0.5941 −0.046
0.5961 −0.061
0.5983 −0.133
0.6004 −0.157
0.6025 −0.227
0.6046 −0.255
0.6069 −0.302
0.6094 −0.326
0.6138 −0.343
0.6195 −0.376
0.6218 −0.389
0.6240 −0.433
0.6259 −0.436
0.6279 −0.486
0.6322 −0.542
0.6358 −0.599
0.6379 −0.620
0.6399 −0.660
0.6420 −0.696
0.6442 −0.721
0.6464 −0.721
0.6485 −0.749
0.6506 −0.777
0.6515 −0.788
0.6536 −0.796

Table 4.

0.6548 −0.807
0.6570 −0.813
0.6600 −0.821
0.6612 −0.819
0.6633 −0.815
0.6652 −0.817
0.6671 −0.807
0.6690 −0.806

2442127 +
0.5428 +0.053
0.5444 +0.004
0.5460 −0.018
0.5504 −0.139
0.5539 −0.241
0.5555 −0.306
0.5571 −0.326
0.5588 −0.397
0.5623 −0.497
0.5643 −0.547
0.5682 −0.619
0.5706 −0.652
0.5727 −0.698
0.5749 −0.737
0.5767 −0.765
0.5784 −0.768
0.5842 −0.867
0.5860 −0.874
0.5875 −0.869
0.5901 −0.888
0.5923 −0.896
0.5942 −0.908
0.5964 −0.894
0.6007 −0.878
0.6031 −0.852
0.6052 −0.854
0.6074 −0.849
0.6093 −0.833

2442135 +
0.4811 −0.011
0.4834 −0.042
0.4872 −0.135
0.4913 −0.279
0.4935 −0.314
0.4957 −0.361
0.4978 −0.429
0.5030 −0.532
0.5052 −0.553
0.5090 −0.583
0.5113 −0.620
0.5134 −0.614
0.5157 −0.643
0.5182 −0.630
0.5222 −0.653
0.5244 −0.655
0.5291 −0.670
0.5314 −0.672
0.5336 −0.676
0.5359 −0.674
0.5382 −0.673
0.5417 −0.672

0.5445 −0.678
0.5467 −0.671
0.5509 −0.653
0.5533 −0.647
0.5555 −0.650

2442136 +
0.5982 +0.204
0.5990 +0.199
0.6009 +0.182
0.6017 +0.183
0.6035 +0.148
0.6044 +0.141
0.6064 +0.126
0.6071 +0.124
0.6090 +0.106
0.6098 +0.093
0.6118 +0.058
0.6127 +0.056
0.6145 +0.006
0.6153 −0.003
0.6172 −0.050
0.6180 −0.061
0.6197 −0.108
0.6205 −0.113
0.6226 −0.164
0.6233 −0.187
0.6250 −0.213
0.6258 −0.226
0.6276 −0.270
0.6286 −0.280
0.6307 −0.338
0.6316 −0.365

2442140 +
0.5769 +0.137
0.5782 +0.134
0.5821 +0.099
0.5839 +0.063
0.5858 +0.037
0.5879 −0.001
0.5896 −0.010
0.5914 −0.065
0.5949 −0.128
0.5967 −0.148
0.5986 −0.178
0.6006 −0.214
0.6026 −0.284
0.6046 −0.332
0.6063 −0.370
0.6081 −0.372
0.6097 −0.404
0.6115 −0.418
0.6133 −0.440

2442144 +
0.5828 −0.343
0.5837 −0.352
0.5854 −0.352
0.5883 −0.365
0.5904 −0.360
0.5914 −0.364

0.5951 −0.380
0.5961 −0.390
0.5982 −0.385
0.6002 −0.403
0.6023 −0.405
0.6044 −0.429
0.6063 −0.471
0.6083 −0.478
0.6105 −0.536
0.6127 −0.551
0.6148 −0.589
0.6170 −0.588
0.6190 −0.620
0.6213 −0.632
0.6255 −0.689
0.6276 −0.692

2442148 +
0.5199 +0.207
0.5217 +0.207
0.5225 +0.203
0.5240 +0.182
0.5250 +0.195
0.5266 +0.176
0.5275 +0.170
0.5294 +0.144
0.5303 +0.132
0.5330 +0.100
0.5348 +0.082
0.5357 +0.079
0.5374 +0.050
0.5382 +0.034
0.5400 −0.006
0.5408 −0.021
0.5428 −0.074
0.5437 −0.101
0.5455 −0.133
0.5465 −0.179
0.5485 −0.220
0.5494 −0.229
0.5515 −0.266
0.5523 −0.286
0.5544 −0.321
0.5574 −0.334
0.5584 −0.343
0.5602 −0.356
0.5612 −0.353
0.5634 −0.390
0.5643 −0.409
0.5667 −0.431
0.5677 −0.435
0.5695 −0.472
0.5706 −0.485
0.5733 −0.519
0.5743 −0.533
0.5765 −0.554
0.5776 −0.583
0.5791 −0.619
0.5801 −0.642
0.5827 −0.682
0.5864 −0.709
0.5891 −0.750

0.5909 −0.784
0.5929 −0.808
0.5950 −0.811
0.5969 −0.826
0.5990 −0.835
0.6009 −0.835
0.6030 −0.848
0.6053 −0.843
0.6073 −0.849
0.6094 −0.845
0.6114 −0.843
0.6134 −0.837

2442152 +
0.4802 +0.233
0.4810 +0.220
0.4829 +0.222
0.4885 +0.193
0.4893 +0.202
0.4913 +0.179
0.4922 +0.168
0.4938 +0.165
0.4947 +0.153
0.4965 +0.139
0.4974 +0.127
0.4998 +0.104
0.5008 +0.103
0.5027 +0.072
0.5039 +0.034
0.5060 +0.016
0.5069 +0.006
0.5091 −0.036
0.5102 −0.051
0.5124 −0.107
0.5133 −0.142
0.5148 −0.172
0.5157 −0.195
0.5195 −0.253
0.5218 −0.307
0.5229 −0.367
0.5262 −0.418
0.5271 −0.443
0.5291 −0.468
0.5308 −0.490
0.5323 −0.519
0.5331 −0.538
0.5352 −0.586
0.5360 −0.587
0.5384 −0.644
0.5394 −0.666
0.5416 −0.694
0.5435 −0.735
0.5462 −0.763
0.5473 −0.771
0.5495 −0.811
0.5506 −0.837
0.5529 −0.873
0.5539 −0.875
0.5560 −0.890
0.5570 −0.888
0.5604 −0.913
0.5624 −0.916

0.5634 −0.936
0.5657 −0.923
0.5668 −0.940
0.5688 −0.923
0.5699 −0.923
0.5719 −0.901
0.5730 −0.907
0.5748 −0.896
0.5759 −0.905

2442177 +
0.4182 +0.155
0.4220 +0.076
0.4269 −0.018
0.4286 −0.060
0.4307 −0.091
0.4553 −0.498
0.4573 −0.518
0.4595 −0.537
0.4643 −0.563
0.4664 −0.581
0.4686 −0.580
0.4745 −0.612

2442186 +
0.5234 −0.192
0.5250 −0.204
0.5264 −0.222
0.5280 −0.262
0.5311 −0.297
0.5329 −0.319
0.5345 −0.341
0.5362 −0.365
0.5380 −0.372
0.5445 −0.383
0.5452 −0.395
0.5465 −0.393
0.5472 −0.398
0.5489 −0.428
0.5495 −0.445
0.5512 −0.466
0.5521 −0.475
0.5539 −0.498
0.5547 −0.527
0.5567 −0.530
0.5605 −0.608
0.5625 −0.648
0.5646 −0.664
0.5665 −0.689
0.5685 −0.707
0.5704 −0.733
0.5722 −0.731
0.5742 −0.736

2442189 +
0.3425 +0.140
0.3488 +0.040
0.3524 −0.070
0.3590 −0.195
0.3631 −0.248
0.3653 −0.274
0.3674 −0.350

0.3704 −0.405
0.3724 −0.417
0.3734 −0.421
0.3763 −0.458
0.3952 −0.685
0.3983 −0.721
0.4038 −0.782
0.4054 −0.794
0.4073 −0.825
0.4088 −0.823
0.4144 −0.860
0.4160 −0.856
0.4181 −0.856
0.4199 −0.862
0.4303 −0.875
0.4323 −0.870

2442193 +
0.3505 −0.676
0.3525 −0.683
0.3543 −0.722
0.3560 −0.748
0.3580 −0.785
0.3618 −0.819
0.3637 −0.843
0.3655 −0.844
0.3689 −0.904
0.3710 −0.921
0.3732 −0.919
0.3751 −0.916
0.3770 −0.925
0.3791 −0.931
0.3811 −0.938
0.3835 −0.924
0.3858 −0.921
0.3882 −0.898
0.3925 −0.873

2442194 +
0.4392 +0.151
0.4423 +0.123
0.4454 +0.072
0.4461 +0.063
0.4479 +0.026
0.4488 +0.022
0.4506 +0.010
0.4523 −0.046
0.4540 −0.083
0.4560 −0.114
0.4575 −0.149
0.4592 −0.190
0.4609 −0.237
0.4617 −0.259
0.4634 −0.307
0.4642 −0.335
0.4659 −0.354
0.4667 −0.386
0.4685 −0.423
0.4693 −0.432
0.4709 −0.469
0.4718 −0.486
0.4736 −0.527
0.4744 −0.534
0.4752 −0.548
0.4771 −0.579
0.4778 −0.596
0.4789 −0.620
0.4798 −0.636
0.4809 −0.668
0.4825 −0.694
0.4852 −0.723
0.4859 −0.736
0.4868 −0.754
0.4887 −0.775
0.4895 −0.782
0.4906 −0.805
0.4929 −0.838
0.4937 −0.845
0.4957 −0.861
0.4969 −0.877
0.4978 −0.897
0.4997 −0.907
0.5005 −0.913
0.5024 −0.924
0.5032 −0.930
0.5051 −0.923
0.5063 −0.928
0.5081 −0.922
0.5088 −0.920
0.5108 −0.916
0.5117 −0.913
0.5125 −0.915
0.5144 −0.903
0.5151 −0.904
0.5173 −0.892
0.5182 −0.889
0.5205 −0.886
0.5213 −0.881

2442198 +
0.4143 −0.006
0.4161 −0.078
0.4180 −0.131
0.4215 −0.212
0.4232 −0.279
0.4250 −0.317
0.4293 −0.418
0.4309 −0.451
0.4336 −0.528
0.4365 −0.583
0.4382 −0.627
0.4432 −0.732
0.4448 −0.759
0.4469 −0.812
0.4539 −0.901
0.4557 −0.905
0.4576 −0.936
0.4593 −0.942
0.4611 −0.960
0.4679 −0.976
0.4758 −0.945
0.4796 −0.923

2442202 +
0.3685 +0.057
0.3694 +0.042
0.3710 +0.009
0.3718 −0.001
0.3737 −0.055
0.3745 −0.061
0.3765 −0.117
0.3775 −0.141
0.3794 −0.173
0.3803 −0.196
0.3822 −0.258
0.3833 −0.290
0.3854 −0.365
0.3863 −0.372
0.3883 −0.422
0.3893 −0.441
0.3911 −0.481
0.3922 −0.505
0.3939 −0.540
0.3950 −0.565
0.3971 −0.622
0.3980 −0.657
0.4000 −0.683
0.4010 −0.695
0.4030 −0.746
0.4041 −0.746
0.4062 −0.782
0.4072 −0.829
0.4092 −0.847
0.4104 −0.875
0.4126 −0.887
0.4137 −0.883
0.4157 −0.908
0.4169 −0.912
0.4188 −0.929
0.4201 −0.930
0.4219 −0.940
0.4229 −0.942
0.4251 −0.932
0.4261 −0.929
0.4306 −0.928
0.4318 −0.925
0.4340 −0.925
0.4352 −0.913
0.4373 −0.898
0.4384 −0.903

2442203 +
0.4915 +0.163
0.4935 +0.124
0.4952 +0.114
0.4977 +0.088
0.5017 +0.043
0.5035 +0.015
0.5053 −0.023
0.5092 −0.093
0.5122 −0.206
0.5139 −0.249
0.5159 −0.285
0.5175 −0.357
0.5194 −0.412
0.5212 −0.430
0.5232 −0.476

2442206 +
0.3429 −0.211
0.3445 −0.275
0.3452 −0.310
0.3468 −0.339
0.3476 −0.379
0.3494 −0.406
0.3502 −0.426
0.3520 −0.474
0.3529 −0.505
0.3544 −0.552
0.3562 −0.610
0.3600 −0.672
0.3617 −0.699
0.3635 −0.740
0.3645 −0.747
0.3661 −0.776
0.3692 −0.804
0.3711 −0.832
0.3729 −0.867
0.3746 −0.880
0.3765 −0.896
0.3784 −0.896
0.3804 −0.902
0.3823 −0.898
0.3842 −0.897
0.3853 −0.899
0.3874 −0.904
0.3894 −0.886
0.3915 −0.881
0.3936 −0.865
0.3958 −0.863

2442207 +
0.4604 +0.121
0.4623 +0.099
0.4668 +0.020
0.4688 −0.056
0.4707 −0.111
0.4726 −0.161
0.4743 −0.204

2442215 +
0.3853 +0.178
0.3868 +0.164
0.3875 +0.160
0.3892 +0.160
0.3912 +0.128
0.3919 +0.121
0.3935 +0.109
0.3960 +0.085
0.3978 +0.039
0.3999 +0.021
0.4018 −0.002
0.4036 −0.053
0.4054 −0.076
0.4071 −0.137
0.4088 −0.160
0.4123 −0.217
0.4142 −0.290
0.4161 −0.334
0.4170 −0.370
0.4187 −0.400
0.4205 −0.479
0.4226 −0.519
0.4243 −0.534
0.4262 −0.574
0.4280 −0.600
0.4300 −0.617
0.4316 −0.612
0.4332 −0.618
0.4349 −0.638
0.4367 −0.636
0.4384 −0.645
0.4400 −0.645
0.4418 −0.665
0.4437 −0.669
0.4455 −0.680
0.4489 −0.674
0.4505 −0.686
0.4540 −0.688
0.4558 −0.693
0.4589 −0.698
0.4628 −0.678
0.4646 −0.682
0.4686 −0.680
0.4707 −0.674
0.4726 −0.676

2442220 +
0.5037 +0.101
0.5044 +0.093
0.5063 +0.085
0.5069 +0.088
0.5086 +0.041
0.5093 +0.032
0.5110 +0.011
0.5117 −0.001
0.5136 −0.039
0.5143 −0.042
0.5166 −0.087
0.5174 −0.098
0.5190 −0.146
0.5199 −0.158
0.5218 −0.207
0.5226 −0.223
0.5245 −0.248
0.5255 −0.264
0.5278 −0.332
0.5309 −0.357
0.5326 −0.421
0.5333 −0.437

2442224 +
0.4899 −0.061
0.4927 −0.092
0.4953 −0.148
0.4989 −0.220
0.5008 −0.280
0.5026 −0.303
0.5045 −0.320
0.5064 −0.344

0.5082 −0.349
0.5100 −0.376
0.5119 −0.373
0.5137 −0.373
0.5175 −0.389
0.5193 −0.402
0.5230 −0.443
0.5248 −0.440
0.5267 −0.468
0.5286 −0.476
0.5323 −0.504
0.5339 −0.533
0.5359 −0.563
0.5378 −0.584
0.5434 −0.641
0.5470 −0.667
0.5489 −0.673

2442236 +
0.3860 +0.105
0.3879 +0.061
0.3897 +0.049
0.3917 −0.005
0.3938 −0.030
0.3957 −0.068
0.3974 −0.111
0.3994 −0.156
0.4015 −0.183
0.4032 −0.233
0.4050 −0.300
0.4068 −0.334
0.4088 −0.389
0.4107 −0.445
0.4148 −0.520
0.4168 −0.563
0.4194 −0.641
0.4215 −0.664
0.4247 −0.717
0.4266 −0.759
0.4291 −0.799
0.4310 −0.827
0.4332 −0.871
0.4353 −0.901
0.4377 −0.914
0.4404 −0.922
0.4427 −0.940
0.4450 −0.949
0.4577 −0.912
0.4596 −0.897
0.4617 −0.905
0.4639 −0.896
0.4661 −0.866
0.4682 −0.865

2442237 +
0.5086 +0.178
0.5096 +0.168
0.5120 +0.160
0.5128 +0.141
0.5151 +0.118
0.5171 +0.107
0.5193 +0.089

0.5212 +0.054
0.5237 +0.011
0.5259 −0.025
0.5280 −0.057
0.5301 −0.091
0.5320 −0.180
0.5341 −0.223
0.5360 −0.278
0.5381 −0.321

2442244 +
0.3419 −0.686
0.3429 −0.708
0.3438 −0.729
0.3456 −0.764
0.3465 −0.767
0.3474 −0.794
0.3493 −0.809
0.3502 −0.832
0.3512 −0.847
0.3530 −0.852
0.3540 −0.865
0.3549 −0.869
0.3568 −0.891
0.3576 −0.898
0.3585 −0.898
0.3604 −0.900
0.3613 −0.900
0.3623 −0.902
0.3641 −0.904
0.3651 −0.913
0.3660 −0.918
0.3679 −0.909
0.3688 −0.914
0.3696 −0.916
0.3724 −0.901
0.3734 −0.903
0.3752 −0.897
0.3762 −0.890
0.3771 −0.881
0.3790 −0.868
0.3799 −0.868
0.3808 −0.854
0.3826 −0.850
0.3835 −0.847
0.3845 −0.840
0.3863 −0.834
0.3873 −0.822
0.3882 −0.818

2442245 +
0.4419 +0.087
0.4438 +0.058
0.4519 −0.123
0.4537 −0.193
0.4593 −0.327
0.4607 −0.372
0.4621 −0.417
0.4637 −0.456
0.4652 −0.488

2442257 +
0.3468 +0.045
0.3493 +0.020
0.3502 −0.019
0.3520 −0.041
0.3529 −0.063
0.3549 −0.116
0.3557 −0.142
0.3575 −0.166
0.3584 −0.183
0.3603 −0.232
0.3612 −0.250
0.3647 −0.348
0.3656 −0.368
0.3681 −0.414
0.3689 −0.430
0.3908 −0.600
0.3927 −0.610
0.3948 −0.624
0.3970 −0.631
0.3994 −0.647
0.4014 −0.644
0.4035 −0.647
0.4056 −0.654
0.4076 −0.667
0.4096 −0.666
0.4117 −0.662
0.4160 −0.662
0.4181 −0.674
0.4201 −0.666
0.4220 −0.660
0.4242 −0.666
0.4262 −0.666
0.4282 −0.659
0.4304 −0.652
0.4322 −0.646
0.4339 −0.644
0.4358 −0.641
0.4378 −0.633
0.4395 −0.625

2442258 +
0.4735 +0.163
0.4752 +0.151
0.4771 +0.131
0.4790 +0.094
0.4808 +0.063
0.4846 +0.018
0.4880 −0.043
0.4899 −0.060
0.4935 −0.155
0.4971 −0.275
0.4986 −0.293
0.4999 −0.324
0.5015 −0.364
0.5032 −0.425
0.5134 −0.490
0.5152 −0.505
0.5271 −0.586
0.5325 −0.597
0.5346 −0.603

2442261 +
0.3304 −0.119
0.3324 −0.171
0.3346 −0.228
0.3366 −0.258
0.3387 −0.300
0.3407 −0.325
0.3439 −0.390
0.3474 −0.453

2442262 +
0.4507 +0.108
0.4527 +0.092
0.4546 +0.060
0.4573 +0.033
0.4601 +0.006
0.4620 −0.018
0.4641 −0.062
0.4660 −0.116
0.4680 −0.144
0.4700 −0.207
0.4720 −0.241
0.4740 −0.280
0.4760 −0.319
0.4781 −0.340
0.4801 −0.382
0.4820 −0.433

2442265 +
0.3292 −0.390
0.3307 −0.415
0.3326 −0.434
0.3348 −0.453
0.3366 −0.462
0.3384 −0.475
0.3404 −0.495
0.3423 −0.532
0.3445 −0.559
0.3464 −0.582
0.3486 −0.598
0.3507 −0.628
0.3527 −0.668
0.3574 −0.706
0.3608 −0.728
0.3631 −0.725
0.3650 −0.738
0.3671 −0.754
0.3694 −0.760
0.3715 −0.753
0.3737 −0.759
0.3757 −0.768
0.3780 −0.753
0.3800 −0.749
0.3823 −0.748
0.3843 −0.744
0.3868 −0.743
0.3892 −0.730
0.3914 −0.719
0.3935 −0.714

2442266 +
0.4132 +0.220
0.4151 +0.213

0.4171 +0.199
0.4192 +0.191
0.4209 +0.180
0.4228 +0.169
0.4247 +0.145
0.4270 +0.120
0.4290 +0.102
0.4309 +0.067
0.4329 +0.037
0.4350 +0.012
0.4359 −0.005
0.4379 −0.054
0.4389 −0.074
0.4410 −0.106
0.4421 −0.149
0.4442 −0.187
0.4452 −0.216
0.4474 −0.264
0.4485 −0.275
0.4504 −0.305
0.4515 −0.328
0.4534 −0.358
0.4545 −0.364
0.4567 −0.379
0.4576 −0.384
0.4597 −0.385
0.4609 −0.391
0.4631 −0.409
0.4643 −0.403
0.4667 −0.430
0.4678 −0.439
0.4698 −0.451
0.4710 −0.471
0.4732 −0.490
0.4744 −0.499
0.4765 −0.533
0.4777 −0.547
0.4797 −0.589
0.4809 −0.598
0.4829 −0.627
0.4840 −0.636
0.4871 −0.682
0.4882 −0.690
0.4903 −0.714
0.4916 −0.724
0.4935 −0.731
0.4947 −0.730
0.4969 −0.758
0.4981 −0.765
0.5004 −0.769
0.5017 −0.777
0.5042 −0.787
0.5055 −0.786
0.5075 −0.789
0.5086 −0.792
0.5118 −0.777
0.5129 −0.775
0.5154 −0.771
0.5164 −0.768
0.5188 −0.771
0.5200 −0.761
0.5219 −0.756

Table 4.

0.5232 −0.758
0.5253 −0.752
0.5263 −0.748

2442274 +
0.3667 +0.050
0.3683 +0.054
0.3701 +0.032
0.3718 +0.018
0.3736 −0.019
0.3754 −0.052
0.3772 −0.106
0.3792 −0.161
0.3808 −0.182
0.3827 −0.243
0.3844 −0.267
0.3861 −0.319
0.3878 −0.367
0.3898 −0.394
0.3914 −0.415
0.3930 −0.435
0.4002 −0.577
0.4016 −0.624
0.4032 −0.640
0.4048 −0.661
0.4063 −0.697
0.4079 −0.717
0.4093 −0.732
0.4125 −0.795
0.4142 −0.832
0.4159 −0.841
0.4174 −0.862
0.4195 −0.867
0.4214 −0.883
0.4230 −0.880
0.4249 −0.889
0.4282 −0.890
0.4302 −0.894
0.4319 −0.908
0.4340 −0.898
0.4360 −0.891
0.4377 −0.899
0.4395 −0.889
0.4412 −0.882
0.4430 −0.867
0.4464 −0.857
0.4483 −0.834
0.4501 −0.839

2442275 +
0.4832 +0.204
0.4850 +0.199
0.4866 +0.191
0.4883 +0.178
0.4900 +0.168
0.4916 +0.146
0.4926 +0.133
0.4956 +0.109
0.4968 +0.088
0.4986 +0.070
0.5003 +0.039
0.5020 +0.015

0.5036 −0.014
0.5054 −0.047
0.5070 −0.061
0.5087 −0.085
0.5099 −0.122
0.5123 −0.170
0.5139 −0.198
0.5157 −0.254
0.5171 −0.281
0.5187 −0.330
0.5208 −0.369
0.5223 −0.398
0.5252 −0.472
0.5270 −0.504
0.5284 −0.543
0.5302 −0.561
0.5316 −0.586
0.5333 −0.619
0.5350 −0.634
0.5364 −0.665
0.5381 −0.696
0.5397 −0.717
0.5411 −0.741
0.5429 −0.779
0.5451 −0.813
0.5468 −0.835
0.5482 −0.841
0.5496 −0.864
0.5510 −0.873
0.5524 −0.888
0.5538 −0.903
0.5557 −0.913
0.5573 −0.914
0.5586 −0.920
0.5600 −0.920
0.5616 −0.928
0.5628 −0.928
0.5646 −0.920
0.5656 −0.923
0.5675 −0.918
0.5689 −0.912
0.5704 −0.908
0.5718 −0.884
0.5732 −0.886

2442278 +
0.3202 +0.162
0.3219 +0.160
0.3227 +0.157
0.3247 +0.121
0.3265 +0.105
0.3281 +0.094
0.3295 +0.076
0.3309 +0.032
0.3329 +0.007
0.3346 −0.013
0.3367 −0.066
0.3382 −0.094
0.3398 −0.107
0.3417 −0.177
0.3436 −0.216
0.3453 −0.255

0.3471 −0.302
0.3487 −0.338
0.3505 −0.403
0.3535 −0.456
0.3557 −0.502
0.3575 −0.541
0.3591 −0.596
0.3609 −0.619
0.3626 −0.664
0.3646 −0.694
0.3662 −0.717
0.3682 −0.747
0.3703 −0.769
0.3740 −0.826
0.3763 −0.844
0.3784 −0.862
0.3804 −0.889
0.3824 −0.907
0.3844 −0.925
0.3862 −0.925
0.3884 −0.926
0.3903 −0.935
0.3925 −0.930
0.3941 −0.924
0.3962 −0.920
0.3992 −0.904
0.4014 −0.898
0.4034 −0.885
0.4054 −0.855
0.4074 −0.840

2442291 +
0.3428 +0.177
0.3435 +0.162
0.3456 +0.151
0.3463 +0.134
0.3483 +0.125
0.3490 +0.104
0.3511 +0.071
0.3518 +0.064
0.3539 +0.035
0.3546 +0.035
0.3567 −0.032
0.3594 −0.085
0.3601 −0.116
0.3622 −0.165
0.3640 −0.215
0.3657 −0.261
0.3678 −0.302
0.3685 −0.329
0.3710 −0.386
0.3717 −0.411
0.3737 −0.459
0.3747 −0.475
0.3768 −0.533
0.3779 −0.564
0.3800 −0.602
0.3810 −0.608
0.3828 −0.641
0.3838 −0.639
0.3862 −0.677
0.3872 −0.685

0.3893 −0.711
0.3907 −0.725
0.3928 −0.750
0.3938 −0.758
0.3963 −0.777
0.3977 −0.782
0.3997 −0.794
0.4007 −0.796
0.4029 −0.794
0.4050 −0.799
0.4067 −0.800
0.4091 −0.797
0.4105 −0.800
0.4129 −0.794
0.4139 −0.792
0.4160 −0.770
0.4180 −0.766
0.4201 −0.770
0.4221 −0.749
0.4244 −0.741

2442299 +
0.3054 −0.147
0.3067 −0.162
0.3092 −0.235
0.3102 −0.243
0.3133 −0.313
0.3144 −0.330
0.3155 −0.352
0.3183 −0.399
0.3193 −0.411
0.3205 −0.431
0.3234 −0.466
0.3248 −0.474
0.3273 −0.515
0.3281 −0.520
0.3297 −0.517
0.3315 −0.517
0.3323 −0.518
0.3330 −0.519
0.3348 −0.528
0.3356 −0.530
0.3365 −0.533
0.3383 −0.533
0.3391 −0.537
0.3398 −0.544
0.3414 −0.557
0.3423 −0.560
0.3429 −0.578
0.3447 −0.585
0.3454 −0.596
0.3463 −0.588
0.3480 −0.596
0.3488 −0.593
0.3495 −0.598
0.3511 −0.612
0.3519 −0.623
0.3526 −0.626
0.3547 −0.622
0.3554 −0.623
0.3579 −0.628
0.3588 −0.639

0.3597 −0.634
0.3615 −0.643
0.3625 −0.659
0.3643 −0.665
0.3653 −0.673
0.3662 −0.676
0.3678 −0.669
0.3688 −0.666
0.3697 −0.666
0.3716 −0.670
0.3724 −0.673
0.3733 −0.672
0.3752 −0.675
0.3761 −0.670
0.3771 −0.674
0.3793 −0.678
0.3802 −0.672
0.3810 −0.673
0.3829 −0.657
0.3838 −0.660
0.3847 −0.657
0.3865 −0.651
0.3875 −0.652
0.3884 −0.647

2442300 +
0.4247 +0.133
0.4268 +0.094
0.4289 +0.044
0.4310 +0.028
0.4347 −0.033
0.4377 −0.086
0.4404 −0.148
0.4428 −0.183
0.4446 −0.235
0.4465 −0.285
0.4485 −0.334
0.4505 −0.368
0.4525 −0.393
0.4545 −0.405
0.4567 −0.431
0.4588 −0.440
0.4607 −0.457
0.4626 −0.466
0.4684 −0.484
0.4706 −0.501
0.4727 −0.530
0.4747 −0.531
0.4769 −0.549
0.4790 −0.545
0.4813 −0.555
0.4833 −0.562

2442304 +
0.3883 +0.201
0.3901 +0.195
0.3918 +0.184
0.3936 +0.162
0.3953 +0.162
0.3970 +0.131
0.3991 +0.119
0.4008 +0.096

Table 4.

0.4026 +0.081
0.4038 +0.063
0.4056 +0.027
0.4078 −0.001
0.4085 −0.007
0.4105 −0.069
0.4112 −0.074
0.4130 −0.107
0.4137 −0.127
0.4158 −0.171
0.4165 −0.196
0.4186 −0.234
0.4193 −0.241
0.4213 −0.277
0.4220 −0.303
0.4241 −0.334
0.4248 −0.330
0.4269 −0.367
0.4276 −0.365
0.4297 −0.378
0.4304 −0.380
0.4325 −0.401
0.4341 −0.406
0.4362 −0.419
0.4380 −0.430
0.4397 −0.441
0.4418 −0.443
0.4440 −0.468
0.4463 −0.483
0.4484 −0.493
0.4505 −0.531
0.4522 −0.538
0.4543 −0.568
0.4564 −0.595
0.4582 −0.604
0.4602 −0.633
0.4619 −0.657
0.4640 −0.674
0.4661 −0.682
0.4679 −0.687
0.4700 −0.709
0.4720 −0.716
0.4737 −0.738
0.4758 −0.742
0.4779 −0.752
0.4800 −0.749
0.4834 −0.748
0.4855 −0.751
0.4873 −0.748
0.4890 −0.740
0.4911 −0.733
0.4929 −0.732

2442307 +
0.2860 −0.563
0.2867 −0.558
0.2885 −0.589
0.2892 −0.599
0.2913 −0.626
0.2920 −0.636
0.2937 −0.655
0.2944 −0.664
0.2964 −0.695
0.2971 −0.700
0.2992 −0.716
0.2999 −0.719
0.3020 −0.733
0.3027 −0.739
0.3045 −0.762
0.3073 −0.770
0.3080 −0.779
0.3096 −0.779
0.3103 −0.784
0.3121 −0.783
0.3128 −0.782
0.3159 −0.788
0.3166 −0.791
0.3177 −0.795
0.3184 −0.794
0.3201 −0.797
0.3208 −0.793
0.3249 −0.787
0.3267 −0.788
0.3295 −0.784
0.3312 −0.786
0.3330 −0.769
0.3346 −0.767
0.3364 −0.754

2442308 +
0.3686 +0.185
0.3703 +0.160
0.3725 +0.135
0.3745 +0.120
0.3766 +0.098
0.3787 +0.070
0.3828 −0.024
0.3849 −0.082
0.3873 −0.103
0.3894 −0.165
0.3915 −0.223
0.3933 −0.244
0.3957 −0.317
0.4002 −0.368

2442329 +
0.3226 +0.166
0.3251 +0.136
0.3272 +0.119
0.3293 +0.094
0.3314 +0.040
0.3334 +0.011
0.3362 −0.064
0.3383 −0.112
0.3407 −0.179
0.3432 −0.226
0.3455 −0.306
0.3480 −0.373
0.3501 −0.420
0.3525 −0.490
0.3550 −0.545
0.3571 −0.589
0.3594 −0.623
0.3619 −0.665
0.3640 −0.690
0.3661 −0.715
0.3689 −0.768
0.3709 −0.773
0.3730 −0.789
0.3751 −0.794
0.3772 −0.808
0.3796 −0.811
0.3814 −0.824
0.3837 −0.819
0.3862 −0.815
0.3883 −0.811
0.3907 −0.818
0.3928 −0.812
0.3949 −0.804
0.3966 −0.805
0.3990 −0.800
0.4015 −0.785
0.4039 −0.772
0.4060 −0.754

2442350 +
0.3047 +0.234
0.3054 +0.229
0.3077 +0.221
0.3088 +0.205
0.3114 +0.197
0.3127 +0.195
0.3163 +0.169
0.3175 +0.172
0.3200 +0.121
0.3209 +0.087
0.3237 +0.042
0.3247 +0.023
0.3278 −0.054
0.3289 −0.064
0.3323 −0.127
0.3335 −0.154
0.3368 −0.223
0.3403 −0.292
0.3416 −0.336
0.3441 −0.379
0.3452 −0.407
0.3573 −0.536
0.3599 −0.557
0.3625 −0.598
0.3664 −0.668
0.3692 −0.709
0.3725 −0.741
0.3763 −0.786
0.3798 −0.807
0.3830 −0.815
0.3861 −0.832
0.3898 −0.850
0.3936 −0.836
0.3971 −0.836
0.4008 −0.824

2442363 +
0.3350 +0.161
0.3364 +0.148
0.3385 +0.124
0.3399 +0.115
0.3420 +0.083
0.3434 +0.063
0.3461 +0.034
0.3472 +0.009
0.3496 −0.026
0.3524 −0.057
0.3552 −0.127
0.3691 −0.520

2442367 +
0.3389 −0.628
0.3407 −0.640
0.3448 −0.697
0.3469 −0.740
0.3491 −0.757
0.3513 −0.786

2442379 +
0.2076 +0.166
0.2132 +0.094
0.2160 +0.071
0.2188 +0.034
0.2211 −0.020
0.2229 −0.076
0.2281 −0.167
0.2309 −0.228
0.2329 −0.274
0.2357 −0.334
0.2382 −0.398
0.2410 −0.424
0.2438 −0.450

2442396 +
0.2178 +0.218
0.2192 +0.202
0.2233 +0.170
0.2247 +0.157
0.2289 +0.136
0.2303 +0.106
0.2344 +0.059
0.2358 +0.043
0.2400 −0.023
0.2414 −0.059
0.2449 −0.135
0.2463 −0.175
0.2497 −0.260
0.2507 −0.273
0.2546 −0.354
0.2560 −0.373
0.2601 −0.458
0.2615 −0.488
0.2650 −0.540
0.2664 −0.565
0.2692 −0.613
0.2706 −0.660
0.2768 −0.738
0.2782 −0.770
0.2824 −0.823
0.2845 −0.832

2442404 +
0.1865 −0.630
0.1872 −0.652
0.1893 −0.672
0.1903 −0.692
0.1926 −0.705
0.1933 −0.726
0.1960 −0.762
0.1982 −0.776
0.2005 −0.791
0.2027 −0.815
0.2051 −0.830
0.2096 −0.859
0.2120 −0.857
0.2143 −0.861
0.2167 −0.861
0.2189 −0.858
0.2218 −0.851
0.2265 −0.822
0.2289 −0.814
0.2339 −0.783
0.2362 −0.767
0.2386 −0.755
0.2410 −0.748
0.2432 −0.740
0.2460 −0.717

2442504 +
0.5035 −0.143
0.5045 −0.174
0.5064 −0.239
0.5072 −0.248
0.5093 −0.284
0.5103 −0.292
0.5120 −0.330
0.5148 −0.363
0.5156 −0.395
0.5176 −0.429
0.5184 −0.425
0.5203 −0.459
0.5213 −0.474
0.5226 −0.486
0.5238 −0.491
0.5257 −0.517
0.5265 −0.523
0.5285 −0.556
0.5291 −0.570
0.5310 −0.592
0.5319 −0.601
0.5338 −0.623
0.5348 −0.629
0.5368 −0.664
0.5376 −0.672
0.5394 −0.699
0.5404 −0.701
0.5424 −0.715
0.5434 −0.733
0.5452 −0.735
0.5467 −0.760
0.5481 −0.784
0.5490 −0.780
0.5519 −0.800
0.5537 −0.807

0.5549 −0.811
0.5566 −0.818
0.5577 −0.813
0.5617 −0.819
0.5637 −0.817
0.5655 −0.816
0.5675 −0.802
0.5694 −0.798
0.5715 −0.801
0.5735 −0.787
0.5755 −0.792
0.5771 −0.772
0.5780 −0.767
0.5799 −0.758

2442530 +
0.5233 +0.217
0.5245 +0.210
0.5273 +0.222
0.5286 +0.221
0.5311 +0.200
0.5325 +0.197
0.5349 +0.201
0.5396 +0.186
0.5410 +0.181
0.5432 +0.182
0.5446 +0.173
0.5471 +0.168
0.5486 +0.175
0.5512 +0.144
0.5525 +0.142
0.5558 +0.077
0.5568 +0.077
0.5594 +0.029
0.5607 +0.016
0.5631 −0.032
0.5643 −0.066
0.5666 −0.095
0.5678 −0.126
0.5704 −0.184
0.5716 −0.204
0.5740 −0.251
0.5752 −0.297
0.5772 −0.329
0.5784 −0.361
0.5810 −0.405
0.5820 −0.436
0.5846 −0.462
0.5859 −0.480
0.5891 −0.526
0.5906 −0.535
0.5928 −0.563
0.5942 −0.576

2442533 +
0.3796 +0.170
0.3805 +0.165
0.3823 +0.159
0.3832 +0.157
0.3851 +0.157
0.3860 +0.144
0.3879 +0.138
0.3888 +0.119
0.3916 +0.070
0.3935 +0.048
0.3962 −0.017
0.3971 −0.046
0.3990 −0.058
0.3999 −0.089
0.4018 −0.138
0.4027 −0.145
0.4046 −0.190
0.4055 −0.210
0.4073 −0.237
0.4082 −0.269
0.4101 −0.284
0.4110 −0.318
0.4129 −0.361
0.4138 −0.380
0.4157 −0.402
0.4166 −0.409
0.4185 −0.441
0.4194 −0.456
0.4212 −0.484
0.4221 −0.495
0.4240 −0.519
0.4249 −0.519
0.4268 −0.544
0.4277 −0.540
0.4296 −0.567
0.4305 −0.575
0.4323 −0.580
0.4332 −0.587
0.4351 −0.610
0.4360 −0.621
0.4379 −0.635
0.4388 −0.643
0.4407 −0.653
0.4416 −0.681
0.4435 −0.682
0.4444 −0.689
0.4462 −0.702
0.4471 −0.698
0.4490 −0.704
0.4499 −0.713
0.4518 −0.726
0.4546 −0.732
0.4555 −0.733
0.4573 −0.745
0.4582 −0.751
0.4602 −0.752
0.4610 −0.756
0.4629 −0.761
0.4638 −0.753
0.4657 −0.757
0.4666 −0.767
0.4685 −0.766
0.4694 −0.753
0.4740 −0.741
0.4749 −0.735
0.4768 −0.722
0.4777 −0.715
0.4796 −0.712
0.4805 −0.709

2442546 +
0.4025 +0.213
0.4034 +0.222
0.4056 +0.210
0.4067 +0.218
0.4087 +0.212
0.4109 +0.212
0.4134 +0.231
0.4157 +0.208
0.4176 +0.200
0.4224 +0.179
0.4243 +0.179
0.4264 +0.160
0.4299 +0.120
0.4320 +0.106
0.4340 +0.087
0.4359 +0.067
0.4368 +0.035
0.4389 +0.025
0.4398 +0.021
0.4419 −0.041
0.4427 −0.070
0.4449 −0.080
0.4458 −0.109
0.4479 −0.151
0.4488 −0.182
0.4509 −0.217
0.4521 −0.240
0.4542 −0.298
0.4554 −0.317
0.4577 −0.372
0.4611 −0.437
0.4621 −0.460
0.4648 −0.494
0.4658 −0.505
0.4685 −0.542
0.4696 −0.566
0.4717 −0.608
0.4750 −0.648
0.4759 −0.650
0.4780 −0.682
0.4790 −0.702
0.4815 −0.739
0.4836 −0.761
0.4865 −0.794
0.4948 −0.834
0.4970 −0.838
0.4991 −0.846
0.5016 −0.835
0.5040 −0.850
0.5061 −0.839
0.5084 −0.829
0.5134 −0.821
0.5155 −0.819

2442551 +
0.5062 +0.228
0.5071 +0.228
0.5089 +0.222
0.5098 +0.225
0.5126 +0.223
0.5145 +0.209
0.5154 +0.201
0.5173 +0.198
0.5182 +0.192
0.5201 +0.191
0.5210 +0.189
0.5228 +0.192
0.5237 +0.183
0.5256 +0.182
0.5265 +0.182
0.5284 +0.150
0.5293 +0.148
0.5312 +0.127
0.5321 +0.122
0.5339 +0.096
0.5348 +0.070
0.5367 +0.041
0.5376 +0.031
0.5395 +0.013
0.5404 −0.020
0.5423 −0.041
0.5432 −0.079
0.5451 −0.099
0.5460 −0.121
0.5478 −0.169
0.5487 −0.177
0.5506 −0.219
0.5515 −0.243
0.5534 −0.278
0.5543 −0.300
0.5562 −0.334
0.5571 −0.369
0.5589 −0.414
0.5598 −0.427
0.5617 −0.451
0.5626 −0.471
0.5645 −0.508
0.5654 −0.522
0.5673 −0.547
0.5682 −0.560

2442554 +
0.3623 +0.116
0.3633 +0.108
0.3654 +0.070
0.3665 +0.069
0.3685 +0.038
0.3695 +0.014
0.3719 −0.014
0.3729 −0.036
0.3750 −0.069
0.3762 −0.096
0.3786 −0.179
0.3798 −0.206
0.3820 −0.256
0.3832 −0.277
0.3854 −0.321
0.3865 −0.346
0.3891 −0.400
0.3904 −0.428
0.3926 −0.442
0.3937 −0.475
0.3962 −0.512
0.3972 −0.535
0.3994 −0.549
0.4005 −0.564
0.4029 −0.602
0.4039 −0.619
0.4063 −0.628
0.4074 −0.657
0.4096 −0.666
0.4105 −0.672
0.4128 −0.708
0.4141 −0.718
0.4164 −0.731
0.4177 −0.742
0.4201 −0.750
0.4224 −0.774
0.4244 −0.778
0.4267 −0.792
0.4292 −0.794
0.4318 −0.797
0.4337 −0.809
0.4361 −0.808
0.4385 −0.807
0.4407 −0.790
0.4431 −0.794
0.4455 −0.775
0.4480 −0.767
0.4512 −0.752
0.4538 −0.751

2442563 +
0.4151 +0.195
0.4161 +0.197
0.4180 +0.160
0.4190 +0.153
0.4207 +0.140
0.4216 +0.140
0.4235 +0.138
0.4244 +0.134
0.4262 +0.100
0.4272 +0.094
0.4290 +0.068
0.4300 +0.070
0.4317 +0.033
0.4327 +0.028
0.4344 +0.011
0.4354 −0.001
0.4373 −0.039
0.4383 −0.055
0.4401 −0.085
0.4411 −0.107
0.4429 −0.138
0.4439 −0.155
0.4457 −0.205
0.4467 −0.224
0.4637 −0.517
0.4647 −0.537
0.4665 −0.556
0.4675 −0.561
0.4693 −0.571
0.4703 −0.572
0.4721 −0.600

0.4731 −0.611
0.4810 −0.680
0.4820 −0.693
0.4838 −0.698
0.4848 −0.696
0.4866 −0.701
0.4876 −0.708
0.4894 −0.721
0.4904 −0.728
0.4922 −0.723
0.4932 −0.720
0.4950 −0.720
0.4960 −0.712
0.4978 −0.709
0.4988 −0.705
0.5006 −0.708
0.5016 −0.713
0.5033 −0.721
0.5043 −0.713
0.5060 −0.714
0.5070 −0.713
0.5080 −0.709
0.5098 −0.706
0.5116 −0.706
0.5126 −0.695
0.5144 −0.695
0.5154 −0.699
0.5171 −0.700
0.5181 −0.692
0.5200 −0.687

2442575 +
0.3937 −0.679
0.3965 −0.723
0.3993 −0.746
0.4024 −0.752
0.4058 −0.753
0.4086 −0.773
0.4112 −0.784
0.4142 −0.782
0.4171 −0.791
0.4197 −0.777
0.4225 −0.776
0.4250 −0.777
0.4277 −0.751
0.4303 −0.736
0.4338 −0.739
0.4360 −0.714
0.4382 −0.707
0.4403 −0.707

2442576 +
0.4469 +0.230
0.4478 +0.226
0.4499 +0.231
0.4521 +0.230
0.4542 +0.223
0.4563 +0.215
0.4585 +0.224
0.4607 +0.218
0.4630 +0.196
0.4654 +0.175
0.4677 +0.162
0.4700 +0.126
0.4722 +0.122
0.4748 +0.088
0.4778 +0.047
0.4800 −0.002
0.4811 −0.017
0.4837 −0.067
0.4846 −0.091
0.4872 −0.137
0.4882 −0.170
0.4904 −0.210
0.4914 −0.238
0.4943 −0.277
0.4954 −0.314
0.4979 −0.356
0.4991 −0.381
0.5017 −0.404
0.5028 −0.423
0.5052 −0.456
0.5063 −0.479
0.5086 −0.489
0.5097 −0.494
0.5121 −0.529
0.5132 −0.548
0.5157 −0.576
0.5168 −0.583
0.5204 −0.624
0.5213 −0.629
0.5237 −0.646
0.5249 −0.665

2442601 +
0.4013 +0.119
0.4058 +0.087
0.4078 +0.065
0.4099 +0.035
0.4121 −0.003
0.4143 −0.046
0.4163 −0.070
0.4184 −0.124
0.4203 −0.148
0.4230 −0.193
0.4256 −0.256
0.4279 −0.324
0.4311 −0.382
0.4335 −0.429
0.4356 −0.470
0.4381 −0.501
0.4409 −0.514
0.4437 −0.536
0.4465 −0.578
0.4493 −0.613
0.4517 −0.628
0.4542 −0.653
0.4567 −0.666
0.4607 −0.693
0.4635 −0.694
0.4661 −0.691
0.4685 −0.709
0.4709 −0.724
0.4729 −0.722
0.4751 −0.731
0.4774 −0.718
0.4797 −0.706
0.4818 −0.708
0.4843 −0.700
0.4864 −0.713
0.4886 −0.711
0.4907 −0.698

2442622 +
0.3897 +0.105
0.3908 +0.083
0.3929 +0.061
0.3938 +0.046
0.3958 +0.011
0.3970 −0.009
0.3989 −0.038
0.4000 −0.061
0.4020 −0.103
0.4033 −0.149
0.4055 −0.212
0.4066 −0.229
0.4088 −0.269
0.4098 −0.283
0.4124 −0.335
0.4136 −0.357
0.4160 −0.406
0.4172 −0.447
0.4197 −0.500
0.4208 −0.512
0.4232 −0.566
0.4246 −0.601
0.4269 −0.639
0.4282 −0.640
0.4303 −0.669
0.4317 −0.704
0.4344 −0.737
0.4367 −0.780
0.4388 −0.788
0.4411 −0.805
0.4538 −0.894
0.4562 −0.906
0.4584 −0.905
0.4608 −0.890
0.4632 −0.880
0.4658 −0.876
0.4679 −0.869
0.4699 −0.857
0.4720 −0.843

2442623 +
0.5157 +0.165
0.5165 +0.157
0.5182 +0.145
0.5191 +0.133
0.5210 +0.131
0.5219 +0.119
0.5237 +0.094
0.5246 +0.090
0.5269 +0.055
0.5297 −0.011
0.5307 −0.023
0.5329 −0.067
0.5335 −0.069
0.5356 −0.117
0.5365 −0.132
0.5384 −0.179
0.5391 −0.193
0.5410 −0.231
0.5416 −0.256
0.5435 −0.311
0.5445 −0.354
0.5467 −0.382
0.5476 −0.412

2442634 +
0.3307 −0.739
0.3314 −0.743
0.3335 −0.740
0.3343 −0.742
0.3365 −0.760
0.3374 −0.768
0.3394 −0.768
0.3402 −0.774
0.3420 −0.781
0.3427 −0.780
0.3442 −0.775
0.3450 −0.772
0.3469 −0.771
0.3476 −0.780
0.3490 −0.790
0.3497 −0.785
0.3514 −0.781
0.3520 −0.780
0.3539 −0.783
0.3546 −0.773
0.3565 −0.790
0.3573 −0.771
0.3590 −0.773
0.3597 −0.767
0.3614 −0.770
0.3621 −0.767
0.3636 −0.759
0.3642 −0.755
0.3660 −0.754
0.3667 −0.745

2442635 +
0.4202 +0.006
0.4220 −0.018
0.4239 −0.041
0.4260 −0.083
0.4286 −0.148
0.4294 −0.164
0.4314 −0.205
0.4321 −0.221
0.4343 −0.264
0.4353 −0.282
0.4375 −0.354
0.4393 −0.375
0.4417 −0.437
0.4438 −0.477
0.4464 −0.527
0.4693 −0.754
0.4713 −0.755
0.4730 −0.760
0.4748 −0.775
0.4767 −0.778
0.4790 −0.778
0.4829 −0.782
0.4848 −0.782
0.4867 −0.773
0.4886 −0.765
0.4909 −0.753

2442639 +
0.3763 +0.125
0.3770 +0.135
0.3788 +0.120
0.3796 +0.117
0.3813 +0.092
0.3819 +0.069
0.3837 +0.056
0.3845 +0.039
0.3867 +0.016
0.3874 +0.010
0.3892 −0.036
0.3898 −0.040
0.3919 −0.066
0.3925 −0.089
0.3943 −0.113
0.3950 −0.138
0.3967 −0.173
0.3974 −0.200
0.3995 −0.241
0.4003 −0.283
0.4022 −0.305
0.4029 −0.323
0.4046 −0.363
0.4053 −0.391
0.4079 −0.431
0.4087 −0.436
0.4106 −0.445
0.4113 −0.467
0.4133 −0.488
0.4141 −0.503
0.4158 −0.523
0.4166 −0.525
0.4183 −0.555
0.4190 −0.563
0.4208 −0.567
0.4215 −0.583
0.4234 −0.593
0 4241 −0.606
0.4257 −0.616
0.4264 −0.628
0.4282 −0.643
0.4288 −0.648
0.4305 −0.653
0.4312 −0.657
0.4330 −0.676
0.4338 −0.668
0.4357 −0.692
0.4365 −0.694
0.4383 −0.702
0.4390 −0.714

Table 4.

0.4407 −0.713
0.4414 −0.714
0.4430 −0.718
0.4438 −0.717
0.4457 −0.714
0.4465 −0.713
0.4482 −0.712
0.4490 −0.722
0.4508 −0.723
0.4537 −0.719
0.4545 −0.721
0.4563 −0.716
0.4571 −0.707
0.4591 −0.708
0.4599 −0.707
0.4616 −0.703
0.4622 −0.702
0.4638 −0.701
0.4646 −0.692
0.4665 −0.697
0.4672 −0.695
0.4690 −0.680
0.4696 −0.682
0.4711 −0.681
0.4717 −0.681
0.4733 −0.674
0.4740 −0.682
0.4756 −0.670
0.4763 −0.674
0.4780 −0.656
0.4788 −0.652

2442648 +
0.4482 +0.133
0.4499 +0.118
0.4527 +0.094
0.4570 +0.046
0.4611 −0.010
0.4625 −0.023
0.4653 −0.072
0.4667 −0.100
0.4695 −0.140
0.4709 −0.164
0.4738 −0.221
0.4752 −0.245
0.4780 −0.290
0.4794 −0.325
0.4820 −0.360
0.4834 −0.380
0.4862 −0.412
0.4876 −0.442
0.4903 −0.465
0.4917 −0.470
0.4973 −0.508
0.4987 −0.502
0.5015 −0.525
0.5029 −0.539
0.5057 −0.539
0.5071 −0.549
0.5098 −0.552
0.5102 −0.550

2442664 +
0.3795 −0.839
0.3804 −0.852
0.3823 −0.864
0.3831 −0.868
0.3853 −0.890
0.3864 −0.890
0.3882 −0.905
0.3891 −0.910
0.3916 −0.906
0.3926 −0.918
0.3946 −0.921
0.3956 −0.919
0.3980 −0.921
0.3996 −0.915
0.4022 −0.908
0.4032 −0.898
0.4056 −0.892
0.4066 −0.886
0.4091 −0.873
0.4101 −0.866

2442669 +
0.4144 +0.178
0.4151 +0.177
0.4172 +0.177
0.4180 +0.175
0.4199 +0.166
0.4205 +0.161
0.4223 +0.164
0.4232 +0.158
0.4251 +0.144
0.4283 +0.119
0.4307 +0.086
0.4314 +0.085
0.4333 +0.035
0.4341 +0.013
0.4358 −0.033
0.4365 −0.030
0.4392 −0.090
0.4412 −0.141
0.4421 −0.149
0.4441 −0.206
0.4449 −0.216
0.4474 −0.269
0.4483 −0.314
0.4506 −0.378
0.4518 −0.393
0.4538 −0.421
0.4547 −0.456
0.4586 −0.502
0.4611 −0.543
0.4620 −0.567
0.4640 −0.597
0.4648 −0.613
0.4667 −0.639
0.4675 −0.648
0.4693 −0.670
0.4702 −0.676
0.4720 −0.693
0.4730 −0.691

2442672 +
0.2712 −0.087
0.2718 −0.073
0.2737 −0.138
0.2745 −0.169
0.2766 −0.216
0.2773 −0.238
0.2794 −0.266
0.2802 −0.288
0.2822 −0.332
0.2831 −0.358
0.2856 −0.415
0.2865 −0.434
0.2888 −0.487
0.2897 −0.504
0.2918 −0.528
0.2927 −0.539
0.2947 −0.581
0.2960 −0.601
0.2985 −0.626
0.2996 −0.654
0.3018 −0.669
0.3029 −0.683
0.3054 −0.703
0.3064 −0.709
0.3121 −0.771
0.3144 −0.795
0.3155 −0.790
0.3176 −0.799
0.3186 −0.800
0.3210 −0.813
0.3218 −0.817
0.3240 −0.805
0.3249 −0.808
0.3272 −0.802
0.3282 −0.797
0.3361 −0.767
0.3371 −0.774
0.3400 −0.755
0.3413 −0.751
0.3440 −0.738
0.3451 −0.734
0.3524 −0.708
0.3531 −0.708

2442673 +
0.4019 −0.010
0.4033 −0.035
0.4054 −0.090
0.4068 −0.132
0.4095 −0.219
0.4109 −0.235
0.4137 −0.304
0.4151 −0.350
0.4179 −0.409
0.4193 −0.439
0.4220 −0.477
0.4234 −0.501
0.4262 −0.532
0.4276 −0.549
0.4304 −0.619
0.4318 −0.637

0.4345 −0.663
0.4359 −0.669
0.4387 −0.700
0.4401 −0.723
0.4429 −0.758
0.4443 −0.772
0.4470 −0.785
0.4484 −0.785
0.4512 −0.805
0.4526 −0.799
0.4554 −0.798
0.4567 −0.805
0.4595 −0.806
0.4609 −0.805
0.4651 −0.794
0.4679 −0.782
0.4693 −0.773
0.4720 −0.755
0.4762 −0.733
0.4776 −0.730
0.4804 −0.707
0.4818 −0.705

2442676 +
0.2596 −0.563
0.2605 −0.590
0.2627 −0.609
0.2635 −0.622
0.2654 −0.643
0.2662 −0.654
0.2683 −0.682
0.2693 −0.697
0.2712 −0.700
0.2721 −0.703
0.2742 −0.719
0.2771 −0.727
0.2782 −0.739
0.2802 −0.754
0.2812 −0.753
0.2834 −0.753
0.2843 −0.764
0.2867 −0.767
0.2876 −0.763
0.2899 −0.759
0.2908 −0.750
0.2928 −0.750
0.2937 −0.752
0.2958 −0.751
0.2967 −0.744
0.2990 −0.742
0.3001 −0.743
0.3022 −0.732
0.3031 −0.731
0.3052 −0.728
0.3062 −0.727
0.3084 −0.719
0.3094 −0.703
0.3115 −0.694
0.3125 −0.700

2442677 +
0.3545 +0.114

0.3556 +0.108
0.3587 +0.061
0.3598 +0.066
0.3625 +0.008
0.3638 +0.008
0.3662 −0.019
0.3674 −0.038
0.3704 −0.103
0.3732 −0.154
0.3764 −0.243
0.3827 −0.416
0.3855 −0.461
0.3883 −0.506
0.3911 −0.544
0.3966 −0.617
0.3994 −0.627
0.4053 −0.688
0.4083 −0.694
0.4110 −0.707
0.4140 −0.735
0.4168 −0.724
0.4199 −0.733
0.4230 −0.736
0.4261 −0.737
0.4291 −0.731
0.4321 −0.721
0.4349 −0.724
0.4379 −0.717
0.4413 −0.707
0.4466 −0.700
0.4560 −0.656
0.4587 −0.638

2442681 +
0.3185 +0.145
0.3195 +0.125
0.3227 +0.105
0.3238 +0.086
0.3262 +0.074
0.3274 +0.065
0.3299 +0.031
0.3337 −0.046
0.3350 −0.034
0.3375 −0.105
0.3387 −0.130
0.3413 −0.168
0.3423 −0.181
0.3450 −0.240
0.3467 −0.262
0.3493 −0.343
0.3507 −0.361
0.3531 −0.415
0.3541 −0.446

2442685 +
0.2991 +0.026
0.2997 +0.021
0.3018 +0.005
0.3026 −0.004
0.3045 −0.030
0.3053 −0.054
0.3073 −0.074

0.3090 −0.123
0.3107 −0.146
0.3127 −0.220
0.3163 −0.295
0.3186 −0.323
0.3205 −0.358
0.3224 −0.390
0.3244 −0.410
0.3264 −0.431
0.3283 −0.448
0.3303 −0.463
0.3323 −0.480
0.3340 −0.483
0.3360 −0.493
0.3380 −0.495
0.3399 −0.510
0.3425 −0.522
0.3446 −0.528
0.3467 −0.538
0.3489 −0.553
0.3515 −0.564
0.3535 −0.569
0.3557 −0.587
0.3578 −0.597
0.3598 −0.612
0.3621 −0.616
0.3642 −0.627
0.3663 −0.626
0.3684 −0.635
0.3704 −0.651
0.3728 −0.663
0.3749 −0.662

2442689 +
0.2630 +0.148
0.2640 +0.151
0.2672 +0.101
0.2686 +0.066
0.2706 +0.060
0.2720 +0.038
0.2748 −0.006
0.2758 −0.016
0.2787 −0.079
0.2799 −0.096
0.2824 −0.150
0.2835 −0.157
0.2859 −0.206
0.2873 −0.214
0.2894 −0.266
0.2908 −0.281
0.2933 −0.332
0.2943 −0.338
0.2967 −0.354
0.2977 −0.365
0.3016 −0.394
0.3043 −0.424
0.3054 −0.422
0.3081 −0.432
0.3091 −0.448
0.3119 −0.460
0.3130 −0.465
0.3158 −0.473
0.3168 −0.487
0.3196 −0.516
0.3207 −0.517
0.3234 −0.533
0.3241 −0.544
0.3269 −0.553
0.3307 −0.589
0.3321 −0.594
0.3397 −0.650
0.3411 −0.650
0.3443 −0.671
0.3457 −0.680
0.3494 −0.702
0.3523 −0.711
0.3533 −0.697
0.3561 −0.696
0.3571 −0.698
0.3609 −0.698
0.3633 −0.685
0.3644 −0.691
0.3668 −0.676
0.3682 −0.661

2442710 +
0.2912 −0.803
0.2922 −0.797
0.2953 −0.842
0.2967 −0.839
0.3056 −0.858
0.3069 −0.845
0.3095 −0.830
0.3108 −0.834
0.3134 −0.813
0.3144 −0.800
0.3172 −0.794
0.3210 −0.768

2442714 +
0.2151 −0.172
0.2160 −0.179
0.2185 −0.239
0.2194 −0.271
0.2216 −0.304
0.2225 −0.315
0.2247 −0.373
0.2256 −0.398
0.2287 −0.445
0.2310 −0.499
0.2320 −0.522
0.2372 −0.605
0.2381 −0.616
0.2408 −0.641
0.2418 −0.665
0.2442 −0.680
0.2452 −0.697
0.2474 −0.707
0.2484 −0.721
0.2507 −0.742
0.2520 −0.746
0.2550 −0.758
0.2558 −0.761
0.2583 −0.768
0.2593 −0.773
0.2615 −0.783
0.2626 −0.779
0.2646 −0.784
0.2655 −0.781
0.2676 −0.788
0.2686 −0.791
0.2708 −0.781
0.2719 −0.784
0.2740 −0.767
0.2750 −0.761
0.2774 −0.753
0.2786 −0.748
0.2814 −0.740
0.2823 −0.732
0.2841 −0.717
0.2851 −0.714
0.2873 −0.708
0.2882 −0.701

2442840 +
0.6134 −0.122
0.6144 −0.150
0.6168 −0.197
0.6205 −0.269
0.6214 −0.296
0.6234 −0.330
0.6243 −0.348
0.6264 −0.395
0.6274 −0.425
0.6294 −0.454
0.6304 −0.488
0.6331 −0.520
0.6341 −0.541

2442873 +
0.5182 −0.733
0.5195 −0.757
0.5228 −0.784
0.5242 −0.796
0.5274 −0.815
0.5288 −0.825
0.5322 −0.825
0.5336 −0.834
0.5371 −0.844
0.5385 −0.840
0.5420 −0.838
0.5436 −0.831
0.5468 −0.819
0.5482 −0.803
0.5538 −0.772
0.5568 −0.753
0.5582 −0.746
0.5614 −0.730
0.5628 −0.729
0.5656 −0.708
0.5670 −0.715

2442890 +
0.4986 +0.078
0.4998 +0.061
0.5024 +0.036
0.5034 +0.000
0.5061 −0.021
0.5083 −0.063
0.5112 −0.120
0.5126 −0.152
0.5156 −0.184
0.5169 −0.207
0.5198 −0.253
0.5212 −0.272
0.5240 −0.282
0.5254 −0.298
0.5281 −0.307
0.5295 −0.314
0.5330 −0.328
0.5344 −0.335
0.5386 −0.336
0.5417 −0.363
0.5431 −0.367
0.5461 −0.375
0.5473 −0.372
0.5503 −0.409
0.5517 −0.427
0.5545 −0.455
0.5556 −0.464
0.5584 −0.497
0.5597 −0.507
0.5627 −0.541
0.5640 −0.545
0.5668 −0.590
0.5681 −0.597
0.5708 −0.613
0.5720 −0.619
0.5753 −0.642
0.5767 −0.654
0.5795 −0.661
0.5809 −0.673
0.5837 −0.686
0.5851 −0.688
0.5878 −0.696
0.5892 −0.694

2442907 +
0.4781 +0.180
0.4795 +0.183
0.4826 +0.172
0.4840 +0.180
0.4875 +0.164
0.4889 +0.159
0.4920 +0.145
0.4975 +0.104
0.4989 +0.096
0.5017 +0.044
0.5031 +0.031
0.5066 −0.022
0.5080 −0.050
0.5116 −0.148
0.5128 −0.171
0.5163 −0.274
0.5177 −0.296
0.5205 −0.363
0.5219 −0.399
0.5246 −0.477
0.5260 −0.508
0.5281 −0.573
0.5305 −0.625
0.5337 −0.695
0.5354 −0.726
0.5389 −0.800
0.5403 −0.814
0.5441 −0.871
0.5455 −0.902
0.5486 −0.929
0.5500 −0.945
0.5531 −0.949
0.5548 −0.946
0.5580 −0.940
0.5591 −0.945
0.5621 −0.939
0.5635 −0.939
0.5666 −0.933
0.5680 −0.923
0.5712 −0.899
0.5725 −0.884

2442915 +
0.4074 +0.168
0.4084 +0.161
0.4116 +0.149
0.4127 +0.163
0.4159 +0.144
0.4170 +0.152
0.4207 +0.124
0.4217 +0.114
0.4254 +0.045
0.4267 +0.031
0.4299 −0.042
0.4309 −0.058
0.4339 −0.118
0.4349 −0.154
0.4388 −0.235
0.4399 −0.281
0.4430 −0.344
0.4440 −0.362
0.4476 −0.432
0.4485 −0.458
0.4513 −0.550
0.4524 −0.568
0.4554 −0.644
0.4565 −0.661
0.4611 −0.720
0.4640 −0.741
0.4651 −0.765
0.4680 −0.779
0.4692 −0.795
0.4722 −0.828
0.4735 −0.828
0.4765 −0.830
0.4781 −0.838
0.4814 −0.834
0.4828 −0.836
0.4861 −0.829
0.4872 −0.823
0.4896 −0.803
0.4907 −0.803

2442936 +
0.3863 +0.239
0.3875 +0.239
0.3903 +0.245
0.3916 +0.239
0.3943 +0.239
0.3957 +0.235
0.3986 +0.240
0.4002 +0.227
0.4029 +0.230
0.4044 +0.223
0.4081 +0.231
0.4099 +0.212
0.4127 +0.208
0.4143 +0.209
0.4179 +0.191
0.4195 +0.177
0.4226 +0.133
0.4239 +0.111
0.4265 +0.072
0.4279 +0.038
0.4309 +0.011
0.4325 −0.027
0.4496 −0.326
0.4510 −0.355
0.4536 −0.383
0.4549 −0.422
0.4576 −0.462
0.4592 −0.487
0.4620 −0.542
0.4634 −0.578
0.4660 −0.618
0.4675 −0.648
0.4702 −0.687
0.4713 −0.709
0.4741 −0.740
0.4787 −0.813
0.4828 −0.850
0.4842 −0.854
0.4871 −0.865
0.4887 −0.879
0.4915 −0.884
0.4929 −0.885
0.4952 −0.880
0.4966 −0.886
0.5014 −0.875
0.5046 −0.877
0.5057 −0.865
0.5095 −0.844
0.5112 −0.836
0.5127 −0.842

2442940 +
0.3830 +0.164
0.3846 +0.164
0.3883 +0.093
0.3888 +0.086
0.3919 +0.070
0.3938 +0.061
0.3966 +0.022
0.3975 +0.020
0.3999 −0.040
0.4016 −0.084
0.4050 −0.152
0.4054 −0.163
0.4080 −0.257
0.4097 −0.282
0.4125 −0.376
0.4129 −0.381
0.4156 −0.452
0.4178 −0.498
0.4204 −0.552
0.4208 −0.566
0.4240 −0.638
0.4261 −0.684
0.4289 −0.741
0.4293 −0.750
0.4337 −0.825
0.4365 −0.865
0.4368 −0.871
0.4395 −0.907
0.4410 −0.907
0.4434 −0.913
0.4439 −0.913

2442949 +
0.4323 +0.159
0.4333 +0.149
0.4356 +0.130
0.4368 +0.123
0.4389 +0.108
0.4395 +0.084
0.4420 +0.072
0.4427 +0.055
0.4448 +0.014
0.4456 +0.010
0.4478 −0.037
0.4486 −0.068
0.4509 −0.088
0.4517 −0.124
0.4537 −0.148
0.4547 −0.175
0.4570 −0.229
0.4580 −0.255
0.4606 −0.312
0.4614 −0.350
0.4636 −0.399
0.4648 −0.426
0.4669 −0.494
0.4679 −0.519
0.4703 −0.594
0.4713 −0.608
0.4736 −0.649
0.4750 −0.666
0.4771 −0.707
0.4781 −0.738
0.4804 −0.781
0.4814 −0.817
0.4833 −0.839
0.4841 −0.859

2442957 +
0.3618 +0.106
0.3627 +0.094
0.3643 +0.075
0.3651 +0.077
0.3667 +0.061
0.3676 +0.049
0.3692 +0.024
0.3698 +0.010
0.3705 +0.006
0.3738 −0.014
0.3747 −0.018
0.3756 −0.046

2442958 +
0.4660 +0.132
0.4681 +0.156
0.4705 +0.167
0.4719 +0.155
0.4745 +0.148
0.4757 +0.163
0.4782 +0.155
0.4802 +0.179
0.4827 +0.171
0.4838 +0.166
0.4865 +0.155
0.4879 +0.154
0.4900 +0.149
0.4914 +0.158
0.4934 +0.127
0.4945 +0.118
0.4966 +0.108
0.4976 +0.094
0.5004 +0.071
0.5014 +0.060
0.5035 +0.030
0.5045 +0.015
0.5070 −0.048
0.5084 −0.048
0.5101 −0.093
0.5115 −0.130
0.5138 −0.201
0.5150 −0.218
0.5174 −0.273
0.5188 −0.292
0.5213 −0.340
0.5223 −0.364
0.5251 −0.430
0.5265 −0.475

2442961 +
0.3697 −0.566
0.3714 −0.577
0.3738 −0.597
0.3756 −0.610
0.3787 −0.611
0.3801 −0.613
0.3835 −0.627
0.3849 −0.626

2442962 +
0.4642 +0.169
0.4654 +0.161
0.4686 +0.111
0.4700 +0.109
0.4728 +0.052
0.4742 +0.029
0.4777 −0.039
0.4791 −0.051
0.4818 −0.095
0.4832 −0.120
0.4860 −0.191
0.4874 −0.217
0.4902 −0.272
0.4916 −0.291
0.4943 −0.344
0.4957 −0.367
0.4985 −0.436
0.4999 −0.468
0.5027 −0.500
0.5041 −0.545
0.5072 −0.575
0.5090 −0.594
0.5131 −0.600
0.5159 −0.590
0.5173 −0.592
0.5204 −0.599
0.5219 −0.597
0.5249 −0.590
0.5263 −0.602
0.5291 −0.599
0.5337 −0.595
0.5354 −0.592
0.5381 −0.612
0.5395 −0.608
0.5423 −0.602
0.5433 −0.608
0.5460 −0.600
0.5472 −0.601
0.5495 −0.599
0.5508 −0.594

2442966 +
0.4179 +0.197
0.4193 +0.195
0.4220 +0.206
0.4234 +0.197
0.4262 +0.194
0.4307 +0.185
0.4322 +0.183
0.4355 +0.159
0.4370 +0.141
0.4398 +0.131
0.4411 +0.111
0.4447 +0.081
0.4461 +0.067
0.4488 +0.023
0.4501 −0.007
0.4526 −0.029
0.4540 −0.058
0.4565 −0.103
0.4578 −0.131
0.4612 −0.182
0.4627 −0.209
0.4658 −0.262
0.4703 −0.347
0.4783 −0.451
0.4795 −0.454
0.4820 −0.449
0.4832 −0.452
0.4856 −0.452
0.4866 −0.461
0.4896 −0.464
0.4908 −0.464
0.4936 −0.456
0.4950 −0.456
0.4977 −0.466
0.4991 −0.475
0.5016 −0.475
0.5028 −0.484
0.5056 −0.486
0.5070 −0.492
0.5093 −0.505
0.5105 −0.505
0.5131 −0.505
0.5146 −0.509
0.5172 −0.510
0.5211 −0.526
0.5225 −0.532
0.5248 −0.543
0.5257 −0.537
0.5290 −0.564
0.5304 −0.568
0.5326 −0.566
0.5338 −0.573
0.5365 −0.569
0.5377 −0.568
0.5401 −0.581
0.5411 −0.580
0.5436 −0.580
0.5470 −0.567
0.5484 −0.566
0.5509 −0.557
0.5523 −0.559

2442978 +
0.3953 −0.355
0.3968 −0.401
0.3996 −0.447
0.4000 −0.470
0.4026 −0.531
0.4040 −0.541
0.4069 −0.627
0.4074 −0.627
0.4100 −0.668
0.4118 −0.708
0.4144 −0.765
0.4149 −0.764
0.4178 −0.824
0.4198 −0.849
0.4225 −0.888
0.4230 −0.898
0.4257 −0.908
0.4272 −0.920
0.4301 −0.914
0.4305 −0.921
0.4334 −0.939
0.4352 −0.949

0.4378 −0.947
0.4384 −0.948
0.4415 −0.940
0.4435 −0.942
0.4468 −0.917
0.4477 −0.908
0.4505 −0.890
0.4526 −0.884
0.4569 −0.861

2443000 +
0.4733 −0.479
0.4749 −0.514
0.4782 −0.559
0.4787 −0.566
0.4829 −0.602
0.4851 −0.615
0.4879 −0.625
0.4885 −0.625
0.4920 −0.656
0.4940 −0.665
0.4974 −0.669
0.4980 −0.674
0.5018 −0.679
0.5040 −0.679
0.5075 −0.669
0.5080 −0.669
0.5136 −0.663
0.5176 −0.651
0.5182 −0.660
0.5212 −0.657
0.5233 −0.653
0.5333 −0.610
0.5359 −0.592
0.5396 −0.583
0.5401 −0.588

2443029 +
0.3468 +0.161
0.3484 +0.159
0.3510 +0.148
0.3526 +0.148
0.3560 +0.149
0.3574 +0.139
0.3602 +0.117
0.3618 +0.122
0.3645 +0.100
0.3659 +0.097
0.3687 +0.064
0.3701 +0.050

2443034 +
0.4196 +0.129
0.4210 +0.136
0.4259 +0.135
0.4294 +0.157
0.4311 +0.148
0.4342 +0.147
0.4643 −0.009
0.4658 −0.055
0.4692 −0.142
0.4706 −0.196

0.4863 −0.505
0.4877 −0.542
0.4912 −0.598
0.4928 −0.621
0.4960 −0.657
0.4974 −0.677
0.5005 −0.706
0.5023 −0.737
0.5051 −0.770
0.5099 −0.805
0.5113 −0.808
0.5148 −0.820
0.5162 −0.833
0.5195 −0.834
0.5208 −0.820
0.5243 −0.821
0.5259 −0.829
0.5288 −0.821
0.5301 −0.811

2443045 +
0.2544 −0.298
0.2554 −0.324
0.2576 −0.351
0.2585 −0.392
0.2607 −0.395
0.2616 −0.415
0.2638 −0.441
0.2647 −0.453
0.2671 −0.476
0.2681 −0.493
0.2702 −0.514
0.2715 −0.522
0.2772 −0.532
0.2783 −0.531
0.2805 −0.545
0.2838 −0.545
0.2848 −0.547
0.2871 −0.553
0.2883 −0.556
0.2906 −0.549
0.2913 −0.548
0.2936 −0.540

2443050 +
0.2877 +0.176
0.2914 +0.194
0.2956 +0.199
0.2970 +0.205
0.3005 +0.196
0.3046 +0.205
0.3060 +0.202
0.3093 +0.194
0.3137 +0.218
0.3333 +0.192
0.3380 +0.131
0.3411 +0.118
0.3424 +0.095
0.3450 +0.064
0.3495 −0.002
0.3508 −0.008
0.3572 −0.097

0.3600 −0.114
0.3609 −0.136
0.3640 −0.211
0.3653 −0.233
0.3682 −0.269
0.3699 −0.271
0.3727 −0.309
0.3741 −0.312
0.3772 −0.317
0.3786 −0.329
0.3834 −0.366
0.3865 −0.376
0.3898 −0.398
0.3910 −0.414
0.3938 −0.405
0.3956 −0.422
0.3987 −0.459
0.3998 −0.470
0.4026 −0.494
0.4040 −0.495
0.4171 −0.619
0.4190 −0.624
0.4198 −0.627
0.4216 −0.640
0.4224 −0.647
0.4269 −0.672
0.4276 −0.684
0.4293 −0.687
0.4300 −0.687
0.4317 −0.682
0.4324 −0.680
0.4342 −0.685
0.4350 −0.690
0.4369 −0.689
0.4377 −0.690
0.4394 −0.688
0.4402 −0.691
0.4421 −0.691
0.4429 −0.693
0.4541 −0.660
0.4549 −0.646
0.4567 −0.634
0.4575 −0.632

2443059 +
0.3871 +0.227
0.3885 +0.224
0.3919 +0.229
0.3933 +0.225
0.4130 +0.199
0.4144 +0.180
0.4172 +0.172
0.4188 +0.151
0.4218 +0.143
0.4247 +0.118
0.4276 +0.098
0.4287 +0.074
0.4312 +0.040
0.4328 +0.005
0.4360 −0.049
0.4377 −0.081
0.4408 −0.124

0.4423 −0.155
0.4456 −0.222
0.4505 −0.307
0.4522 −0.353

2443075 +
0.2760 +0.045
0.2767 +0.048
0.2783 +0.023
0.2791 +0.016
0.2805 −0.004
0.2812 −0.025
0.2830 −0.074
0.2837 −0.077
0.2854 −0.115
0.2861 −0.135
0.2878 −0.153
0.2885 −0.155
0.2902 −0.214
0.2910 −0.228
0.2927 −0.274
0.2934 −0.286
0.2951 −0.317
0.2959 −0.325
0.2976 −0.387
0.2983 −0.407
0.2999 −0.455
0.3007 −0.464
0.3022 −0.514
0.3029 −0.533
0.3044 −0.549
0.3080 −0.614
0.3096 −0.647
0.3103 −0.640
0.3118 −0.671
0.3124 −0.674
0.3140 −0.692
0.3147 −0.707
0.3164 −0.719
0.3172 −0.745
0.3190 −0.745
0.3197 −0.745
0.3213 −0.754
0.3219 −0.759
0.3235 −0.774
0.3242 −0.779
0.3260 −0.783
0.3267 −0.783
0.3283 −0.791
0.3289 −0.796
0.3304 −0.807
0.3326 −0.818
0.3334 −0.814
0.3349 −0.816
0.3356 −0.813
0.3372 −0.810
0.3379 −0.815

2443079 +
0.2445 +0.027
0.2456 +0.001
0.2486 −0.033

0.2499 −0.055
0.2532 −0.157
0.2577 −0.265
0.2591 −0.286
0.2622 −0.376
0.2632 −0.399
0.2663 −0.461
0.2676 −0.483
0.2709 −0.546
0.2723 −0.575
0.2755 −0.624
0.2768 −0.643
0.2798 −0.654
0.2813 −0.669
0.2848 −0.682
0.2862 −0.693
0.2896 −0.704
0.2910 −0.700
0.2945 −0.712
0.2959 −0.712
0.3001 −0.727
0.3015 −0.726
0.3050 −0.724
0.3064 −0.726
0.3111 −0.722

2443251 +
0.5747 +0.037
0.5761 +0.010
0.5786 −0.018
0.5792 −0.027
0.5819 −0.068
0.5832 −0.080
0.5856 −0.111
0.5887 −0.156
0.5899 −0.169
0.5929 −0.217
0.5934 −0.222
0.5958 −0.255
0.5974 −0.276
0.6017 −0.341
0.6043 −0.399
0.6060 −0.408
0.6087 −0.454
0.6090 −0.465

2443275 +
0.3766 +0.090
0.3776 +0.085
0.3796 +0.054
0.3806 +0.035
0.3827 +0.015
0.3835 +0.007
0.3858 −0.010
0.3888 −0.055
0.3918 −0.100
0.3928 −0.126
0.4000 −0.255
0.4008 −0.276
0.4029 −0.330
0.4041 −0.334
0.4063 −0.370

0.4071 −0.394
0.4094 −0.431
0.4103 −0.439
0.4124 −0.490
0.4133 −0.508
0.4155 −0.519
0.4166 −0.554
0.4200 −0.605
0.4223 −0.639
0.4233 −0.650
0.4254 −0.656
0.4263 −0.676
0.4286 −0.686
0.4296 −0.717
0.4318 −0.727
0.4358 −0.771
0.4368 −0.752
0.4424 −0.795
0.4433 −0.809
0.4456 −0.804
0.4465 −0.800
0.4487 −0.788
0.4495 −0.786
0.4517 −0.802
0.4526 −0.804

2443287 +
0.3359 −0.692
0.3367 −0.705
0.3388 −0.704
0.3398 −0.710
0.3420 −0.705
0.3430 −0.716
0.3457 −0.728
0.3491 −0.735
0.3502 −0.741
0.3524 −0.736
0.3534 −0.730
0.3556 −0.737
0.3567 −0.742
0.3589 −0.741
0.3600 −0.741
0.3622 −0.741
0.3632 −0.731
0.3655 −0.722
0.3664 −0.728

2443296 +
0.3666 −0.103
0.3675 −0.127
0.3698 −0.172
0.3707 −0.181
0.3728 −0.218
0.3738 −0.247
0.3759 −0.269
0.3769 −0.294
0.3790 −0.314
0.3799 −0.322
0.3819 −0.351
0.3828 −0.363
0.3853 −0.388
0.3864 −0.410
0.3885 −0.433
0.3894 −0.437
0.3917 −0.460
0.4011 −0.536
0.4023 −0.549
0.4042 −0.548
0.4051 −0.551
0.4072 −0.568
0.4082 −0.572
0.4113 −0.599
0.4121 −0.604
0.4142 −0.606
0.4152 −0.620
0.4174 −0.629
0.4183 −0.637
0.4204 −0.643
0.4214 −0.649
0.4235 −0.641
0.4265 −0.642
0.4276 −0.650
0.4298 −0.632
0.4325 −0.636
0.4335 −0.632

2443305 +
0.4452 −0.211
0.4462 −0.224
0.4488 −0.264
0.4497 −0.281
0.4524 −0.311
0.4534 −0.343
0.4577 −0.402
0.4605 −0.414
0.4617 −0.416
0.4643 −0.442
0.4655 −0.456
0.4740 −0.536
0.4754 −0.548
0.4780 −0.573
0.4791 −0.580
0.4818 −0.601
0.4830 −0.614
0.4858 −0.621
0.4869 −0.628
0.4893 −0.633
0.4907 −0.657
0.4935 −0.673
0.4946 −0.677
0.4973 −0.689
0.4983 −0.705
0.5016 −0.705
0.5028 −0.705
0.5055 −0.713
0.5064 −0.714
0.5099 −0.705
0.5111 −0.711
0.5138 −0.718
0.5150 −0.711
0.5180 −0.717
0.5192 −0.714
0.5222 −0.716
0.5232 −0.720
0.5266 −0.706
0.5278 −0.697
0.5303 −0.681
0.5317 −0.677
0.5344 −0.667
0.5360 −0.665
0.5393 −0.645
0.5405 −0.645

2443352 +
0.4657 +0.183
0.4668 +0.175
0.4700 +0.163
0.4712 +0.159
0.4743 +0.135
0.4755 +0.128
0.4786 +0.092
0.4799 +0.081
0.4828 +0.061
0.4840 +0.046
0.4868 +0.004
0.4881 −0.009
0.4906 −0.039
0.4920 −0.062
0.4951 −0.108
0.4962 −0.140
0.4991 −0.184
0.5004 −0.217
0.5031 −0.271
0.5044 −0.286
0.5072 −0.355
0.5082 −0.364
0.5113 −0.403
0.5126 −0.422
0.5155 −0.460
0.5166 −0.482
0.5197 −0.507
0.5209 −0.518
0.5241 −0.563
0.5253 −0.567
0.5282 −0.603
0.5294 −0.610
0.5323 −0.649
0.5335 −0.655
0.5364 −0.684
0.5405 −0.726
0.5413 −0.724
0.5441 −0.733
0.5451 −0.759
0.5479 −0.770
0.5490 −0.763
0.5520 −0.771
0.5531 −0.772
0.5560 −0.786
0.5571 −0.781
0.5599 −0.783
0.5611 −0.782
0.5639 −0.768
0.5650 −0.771

2443368 +
0.3521 −0.080
0.3529 −0.111
0.3550 −0.148
0.3560 −0.167
0.3584 −0.211
0.3595 −0.223
0.3762 −0.500
0.3802 −0.577
0.3812 −0.577
0.3964 −0.738
0.3975 −0.762
0.4007 −0.775
0.4019 −0.790
0.4045 −0.786
0.4060 −0.805
0.4085 −0.796
0.4099 −0.811
0.4171 −0.785
0.4186 −0.786
0.4212 −0.762
0.4224 −0.764
0.4255 −0.752
0.4267 −0.750
0.4298 −0.745
0.4308 −0.739
0.4333 −0.718
0.4344 −0.702
0.4368 −0.699

2443372 +
0.3503 −0.576
0.3513 −0.603
0.3539 −0.628
0.3544 −0.633
0.3570 −0.634
0.3583 −0.647
0.3612 −0.666
0.3617 −0.660
0.3645 −0.678
0.3662 −0.687
0.3711 −0.711
0.3716 −0.713
0.3742 −0.712
0.3755 −0.713
0.3787 −0.729
0.3792 −0.720
0.3820 −0.736
0.3835 −0.726
0.3871 −0.730
0.3878 −0.720
0.3902 −0.707
0.3915 −0.704
0.3944 −0.694
0.3949 −0.694
0.3975 −0.693
0.3990 −0.685
0.4022 −0.675
0.4073 −0.670
0.4102 −0.646
0.4107 −0.638
0.4138 −0.632
0.4153 −0.630
0.4185 −0.621
0.4218 −0.606
0.4231 −0.592
0.4262 −0.568
0.4269 −0.568
0.4300 −0.558
0.4317 −0.560

2443381 +
0.4826 −0.620
0.4833 −0.620
0.4862 −0.609
0.4879 −0.612
0.4919 −0.602
0.4930 −0.600
0.4970 −0.576
0.4991 −0.566
0.5022 −0.569
0.5027 −0.564

2443385 +
0.4015 −0.483
0.4022 −0.484
0.4045 −0.497
0.4053 −0.501
0.4075 −0.502
0.4083 −0.512
0.4120 −0.526
0.4130 −0.529
0.4150 −0.559
0.4159 −0.571
0.4182 −0.602
0.4193 −0.614
0.4218 −0.636
0.4231 −0.639
0.4263 −0.653
0.4277 −0.664
0.4311 −0.665
0.4350 −0.664
0.4360 −0.667
0.4385 −0.671
0.4399 −0.678
0.4430 −0.685
0.4441 −0.687
0.4474 −0.685
0.4489 −0.677
0.4515 −0.668
0.4526 −0.665
0.4550 −0.664
0.4561 −0.660
0.4587 −0.657
0.4603 −0.644

2443390 +
0.4720 −0.100
0.4731 −0.122
0.4761 −0.175
0.4797 −0.223
0.4806 −0.229
0.4831 −0.272
0.4840 −0.280
0.4867 −0.333
0.4877 −0.341

0.4903 −0.369
0.4913 −0.376
0.4940 −0.412
0.4950 −0.422
0.4978 −0.449
0.4988 −0.451
0.5024 −0.484
0.5035 −0.488
0.5063 −0.530
0.5072 −0.537
0.5097 −0.565
0.5108 −0.561
0.5132 −0.597
0.5141 −0.599
0.5168 −0.640
0.5178 −0.645
0.5204 −0.659
0.5212 −0.659

2443393 +
0.3079 −0.071
0.3090 −0.101
0.3115 −0.123
0.3129 −0.147
0.3158 −0.209
0.3169 −0.229
0.3198 −0.276
0.3210 −0.314
0.3237 −0.357
0.3247 −0.370
0.3274 −0.420
0.3286 −0.445
0.3313 −0.493
0.3327 −0.505
0.3352 −0.540
0.3365 −0.572
0.3397 −0.607
0.3409 −0.610
0.3437 −0.644
0.3478 −0.681
0.3488 −0.693
0.3515 −0.711
0.3527 −0.730
0.3556 −0.762
0.3570 −0.762
0.3596 −0.768
0.3609 −0.770
0.3636 −0.792
0.3650 −0.789
0.3681 −0.804
0.3693 −0.803
0.3722 −0.806
0.3736 −0.798
0.3765 −0.801
0.3778 −0.800
0.3804 −0.789
0.3817 −0.798
0.3845 −0.792
0.3859 −0.781
0.3885 −0.773
0.3900 −0.769

2443394 +
0.4284 +0.106
0.4294 +0.092
0.4319 +0.055
0.4332 +0.049
0.4363 +0.015
0.4374 −0.018
0.4402 −0.068
0.4412 −0.075
0.4438 −0.131
0.4451 −0.150
0.4478 −0.194
0.4492 −0.216
0.4520 −0.256
0.4531 −0.282
0.4558 −0.334
0.4569 −0.372
0.4593 −0.409
0.4676 −0.523
0.4687 −0.534
0.4713 −0.586
0.4726 −0.588
0.4753 −0.627
0.4765 −0.646
0.4792 −0.685
0.4803 −0.704
0.4833 −0.726
0.4847 −0.732
0.4873 −0.765
0.4894 −0.779
0.4921 −0.780
0.4935 −0.796
0.4967 −0.811
0.4977 −0.815
0.5008 −0.828
0.5017 −0.837
0.5044 −0.844
0.5058 −0.840
0.5086 −0.841
0.5098 −0.837
0.5125 −0.839
0.5138 −0.843
0.5170 −0.846
0.5181 −0.840

2443401 +
0.2754 −0.800
0.2761 −0.800
0.2783 −0.817
0.2792 −0.824
0.2812 −0.853
0.2820 −0.854
0.2839 −0.857
0.2848 −0.872
0.2941 −0.888
0.3018 −0.875
0.3026 −0.872
0.3047 −0.867
0.3055 −0.862
0.3075 −0.847
0.3084 −0.849

2443414 +
0.2844 −0.480
0.2863 −0.496
0.2891 −0.519
0.2905 −0.537
0.2933 −0.560
0.2948 −0.592
0.2978 −0.615
0.2992 −0.618
0.3025 −0.647
0.3040 −0.660
0.3094 −0.681
0.3141 −0.699
0.3174 −0.717
0.3184 −0.723
0.3212 −0.729
0.3226 −0.723
0.3256 −0.733
0.3271 −0.732
0.3308 −0.713
0.3322 −0.708
0.3379 −0.692
0.3393 −0.694
0.3428 −0.663
0.3441 −0.663

2443415 +
0.4056 −0.219
0.4065 −0.236
0.4093 −0.282
0.4107 −0.320
0.4131 −0.371
0.4142 −0.399
0.4169 −0.425
0.4182 −0.460
0.4210 −0.502
0.4223 −0.518
0.4244 −0.531
0.4256 −0.540
0.4284 −0.574
0.4296 −0.578
0.4321 −0.608
0.4334 −0.629
0.4361 −0.632
0.4373 −0.652
0.4463 −0.682
0.4477 −0.676
0.4505 −0.692
0.4517 −0.678
0.4549 −0.691
0.4562 −0.691
0.4602 −0.689
0.4619 −0.687
0.4651 −0.675
0.4664 −0.664
0.4701 −0.654
0.4715 −0.651
0.4746 −0.654
0.4762 −0.642
0.4791 −0.628
0.4807 −0.620

2443426 +
0.2334 −0.545
0.2361 −0.563
0.2369 −0.572
0.2391 −0.587
0.2400 −0.596
0.2418 −0.605
0.2444 −0.614
0.2452 −0.614
0.2469 −0.616
0.2477 −0.617
0.2519 −0.630
0.2527 −0.626
0.2546 −0.631
0.2554 −0.643
0.2571 −0.645
0.2578 −0.659
0.2596 −0.650
0.2603 −0.651
0.2623 −0.640
0.2631 −0.642
0.2650 −0.658
0.2658 −0.655
0.2676 −0.648
0.2683 −0.636
0.2699 −0.642
0.2706 −0.638
0.2726 −0.627
0.2733 −0.637

2443432 +
0.3938 +0.185
0.3959 +0.180
0.3986 +0.178
0.3993 +0.173
0.4021 +0.164
0.4042 +0.148
0.4070 +0.125
0.4084 +0.116
0.4111 +0.105
0.4129 +0.062
0.4153 +0.025
0.4174 −0.017
0.4202 −0.041
0.4209 −0.060
0.4216 −0.079
0.4250 −0.125
0.4271 −0.138
0.4299 −0.192
0.4306 −0.211
0.4334 −0.235
0.4355 −0.254
0.4452 −0.419
0.4473 −0.434
0.4500 −0.466
0.4507 −0.476
0.4542 −0.533
0.4563 −0.556
0.4591 −0.587
0.4598 −0.604
0.4625 −0.638
0.4646 −0.654

0.4681 −0.682
0.4688 −0.688
0.4716 −0.727
0.4737 −0.755
0.4764 −0.759
0.4771 −0.773
0.4799 −0.785
0.4820 −0.805
0.4848 −0.822
0.4855 −0.817

2443435 +
0.2731 −0.349
0.2740 −0.355
0.2765 −0.409
0.2775 −0.436
0.2807 −0.487
0.2816 −0.507
0.2891 −0.635
0.2900 −0.646
0.2930 −0.688
0.2939 −0.694
0.2964 −0.737
0.2974 −0.762
0.3035 −0.811
0.3042 −0.821
0.3066 −0.836
0.3074 −0.835
0.3097 −0.849

2443436 +
0.3864 −0.012
0.3876 −0.033
0.3902 −0.067
0.3914 −0.084
0.3940 −0.141
0.3950 −0.155
0.3982 −0.215
0.3992 −0.218
0.4020 −0.270
0.4032 −0.302
0.4056 −0.347
0.4066 −0.377
0.4092 −0.428
0.4102 −0.443
0.4129 −0.480
0.4139 −0.535
0.4172 −0.576
0.4184 −0.601
0.4210 −0.647
0.4223 −0.664
0.4250 −0.701
0.4261 −0.721
0.4291 −0.751
0.4323 −0.792
0.4349 −0.817
0.4363 −0.819
0.4386 −0.842
0.4398 −0.849
0.4430 −0.871
0.4444 −0.871
0.4476 −0.874

0.4487 −0.863
0.4513 −0.866
0.4526 −0.860
0.4554 −0.853
0.4568 −0.850

2443439 +
0.2437 −0.505
0.2450 −0.554
0.2488 −0.645
0.2503 −0.663
0.2537 −0.722
0.2549 −0.746
0.2588 −0.794
0.2637 −0.839
0.2651 −0.844
0.2689 −0.887
0.2702 −0.893
0.2737 −0.920
0.2752 −0.920
0.2791 −0.912
0.2803 −0.911
0.2840 −0.905
0.2853 −0.896
0.2884 −0.897
0.2900 −0.884
0.2938 −0.864
0.2952 −0.867
0.2988 −0.847
0.3002 −0.835
0.3049 −0.806
0.3064 −0.795

2443456 +
0.2534 −0.673
0.2543 −0.674
0.2578 −0.685
0.2588 −0.686
0.2619 −0.677
0.2629 −0.689
0.2659 −0.679
0.2671 −0.669
0.2699 −0.665
0.2709 −0.677
0.2742 −0.673
0.2756 −0.661

2443477 +
0.2146 −0.175
0.2156 −0.218
0.2185 −0.263
0.2195 −0.300
0.2222 −0.359
0.2231 −0.392
0.2261 −0.446
0.2273 −0.470
0.2303 −0.527
0.2313 −0.546
0.2341 −0.586
0.2353 −0.615
0.2383 −0.673
0.2393 −0.697
0.2426 −0.740
0.2436 −0.765
0.2469 −0.802
0.2481 −0.828
0.2511 −0.868
0.2523 −0.880
0.2556 −0.926
0.2568 −0.926
0.2594 −0.931
0.2613 −0.943
0.2646 −0.933
0.2662 −0.937
0.2692 −0.925
0.2704 −0.922
0.2733 −0.904
0.2745 −0.888
0.2780 −0.874
0.2794 −0.872
0.2827 −0.853
0.2837 −0.848
0.2865 −0.830
0.2879 −0.814

2443490 +
0.2251 −0.139
0.2259 −0.161
0.2282 −0.229
0.2292 −0.243
0.2313 −0.262
0.2321 −0.284
0.2343 −0.339
0.2351 −0.377
0.2374 −0.424
0.2383 −0.438
0.2405 −0.482
0.2415 −0.504
0.2440 −0.554
0.2448 −0.562
0.2471 −0.580
0.2481 −0.601
0.2502 −0.646
0.2511 −0.652
0.2535 −0.670
0.2544 −0.677
0.2569 −0.694
0.2580 −0.710
0.2616 −0.746
0.2626 −0.743
0.2648 −0.761
0.2657 −0.760
0.2679 −0.766
0.2689 −0.779
0.2711 −0.788
0.2720 −0.783
0.2745 −0.784
0.2763 −0.792
0.2785 −0.792
0.2794 −0.792
0.2818 −0.782
0.2828 −0.781
0.2851 −0.775
0.2884 −0.760
0.2914 −0.747

2443590 +
0.5777 +0.015
0.5789 −0.013
0.5825 −0.072
0.5839 −0.102
0.5867 −0.120
0.5880 −0.137
0.5906 −0.160
0.5919 −0.177
0.5947 −0.192
0.5960 −0.223
0.5986 −0.234
0.5999 −0.243
0.6029 −0.282
0.6041 −0.286
0.6069 −0.325
0.6089 −0.353
0.6122 −0.398
0.6134 −0.407
0.6167 −0.443
0.6180 −0.466
0.6214 −0.517
0.6230 −0.535
0.6256 −0.578
0.6268 −0.584
0.6301 −0.637
0.6313 −0.655
0.6339 −0.684
0.6352 −0.701
0.6383 −0.739
0.6393 −0.745

2443598 +
0.4739 +0.159
0.4746 +0.153
0.4768 +0.155
0.4814 +0.145
0.4844 +0.163
0.4854 +0.161
0.4883 +0.166
0.4893 +0.157
0.4925 +0.170
0.5080 +0.099
0.5137 +0.016
0.5169 −0.055
0.5180 −0.087
0.5210 −0.119
0.5225 −0.140
0.5250 −0.223
0.5265 −0.237
0.5298 −0.309
0.5311 −0.343
0.5338 −0.380
0.5349 −0.419
0.5398 −0.544
0.5408 −0.576
0.5427 −0.613
0.5436 −0.637
0.5458 −0.671
0.5470 −0.679
0.5496 −0.735
0.5508 −0.739
0.5532 −0.798
0.5539 −0.798
0.5566 −0.833
0.5578 −0.839
0.5604 −0.877
0.5616 −0.875
0.5648 −0.903
0.5658 −0.899
0.5681 −0.900
0.5689 −0.913
0.5715 −0.904
0.5725 −0.908
0.5751 −0.921
0.5763 −0.900
0.5785 −0.913
0.5794 −0.902

2443607 +
0.5522 +0.070
0.5532 +0.081
0.5558 +0.034
0.5566 +0.047
0.5593 +0.002
0.5602 +0.021
0.5625 −0.017
0.5635 −0.018
0.5663 −0.073
0.5672 −0.106
0.5696 −0.126
0.5705 −0.158
0.5730 −0.204
0.5739 −0.236
0.5767 −0.303
0.5778 −0.325
0.5807 −0.382
0.5847 −0.474
0.5886 −0.570
0.5896 −0.584

2443700 +
0.5210 +0.071
0.5217 +0.038
0.5237 +0.024
0.5244 +0.019
0.5265 +0.016
0.5272 −0.003
0.5293 −0.053
0.5300 −0.055
0.5321 −0.064
0.5328 −0.083
0.5348 −0.130
0.5355 −0.162
0.5376 −0.186
0.5383 −0.218
0.5404 −0.246
0.5432 −0.285
0.5439 −0.294
0.5460 −0.349
0.5467 −0.380
0.5487 −0.395
0.5494 −0.416
0.5515 −0.461
0.5522 −0.480

2443703 +
0.3525 +0.146
0.3533 +0.133
0.3551 +0.138
0.3561 +0.131
0.3616 +0.080
0.3624 +0.071
0.3642 +0.042
0.3650 +0.022
0.3694 −0.020
0.3702 −0.019
0.3719 −0.067
0.3727 −0.077
0.3745 −0.090
0.3753 −0.091
0.3778 −0.140
0.3798 −0.180
0.3815 −0.202
0.3833 −0.225
0.3841 −0.226
0.3860 −0.264
0.3886 −0.277
0.3895 −0.293

2443707 +
0.3734 −0.256
0.3759 −0.276
0.3767 −0.264
0.3796 −0.283
0.3813 −0.283
0.3827 −0.295
0.3854 −0.343
0.3865 −0.330
0.3894 −0.362
0.3923 −0.375
0.3932 −0.394
0.3954 −0.405
0.3964 −0.425
0.4047 −0.542
0.4057 −0.539
0.4079 −0.583
0.4090 −0.603
0.4109 −0.630
0.4119 −0.654
0.4138 −0.656
0.4147 −0.659
0.4170 −0.695
0.4180 −0.691
0.4201 −0.718
0.4214 −0.719
0.4236 −0.711
0.4245 −0.708
0.4266 −0.712
0.4274 −0.724

2443712 +
0.4834 −0.361
0.4850 −0.421

0.4881 −0.479
0.4892 −0.509
0.4918 −0.576
0.4931 −0.598
0.4957 −0.657
0.4970 −0.674
0.4999 −0.742
0.5012 −0.766
0.5041 −0.805
0.5055 −0.803
0.5086 −0.835
0.5102 −0.847
0.5131 −0.877
0.5145 −0.883
0.5180 −0.895
0.5197 −0.895
0.5229 −0.894
0.5242 −0.904
0.5271 −0.905
0.5290 −0.893
0.5323 −0.870
0.5339 −0.869
0.5367 −0.871
0.5382 −0.867
0.5414 −0.849
0.5429 −0.848
0.5460 −0.844
0.5473 −0.832
0.5506 −0.806
0.5518 −0.803
0.5545 −0.793
0.5558 −0.788

2443716 +
0.4397 −0.266
0.4417 −0.312
0.4439 −0.398
0.4447 −0.431
0.4470 −0.468
0.4479 −0.484
0.4502 −0.574
0.4510 −0.599
0.4531 −0.635
0.4539 −0.639
0.4558 −0.710
0.4567 −0.731
0.4587 −0.748
0.4595 −0.757
0.4615 −0.809
0.4624 −0.811
0.4646 −0.846
0.4656 −0.857
0.4674 −0.865
0.4683 −0.866
0.4703 −0.881
0.4712 −0.891
0.4732 −0.929
0.4741 −0.923
0.4763 −0.948
0.4774 −0.951

2443720 +
0.3893 −0.059
0.3901 −0.088
0.3920 −0.114
0.3928 −0.127
0.3946 −0.165
0.3954 −0.182
0.3973 −0.211
0.3982 −0.223
0.4001 −0.274
0.4010 −0.293
0.4028 −0.348
0.4037 −0.357
0.4083 −0.470
0.4121 −0.569
0.4130 −0.580
0.4148 −0.627
0.4178 −0.701
0.4186 −0.725
0.4206 −0.765
0.4215 −0.783
0.4236 −0.811
0.4245 −0.828
0.4265 −0.859
0.4275 −0.887
0.4295 −0.909
0.4304 −0.910
0.4322 −0.932
0.4330 −0.937
0.4348 −0.961
0.4375 −0.963
0.4384 −0.970
0.4402 −0.964
0.4412 −0.970
0.4437 −0.964
0.4447 −0.965
0.4469 −0.951
0.4476 −0.943

2443721 +
0.5427 −0.544
0.5438 −0.583
0.5464 −0.643
0.5477 −0.673
0.5499 −0.705
0.5509 −0.723
0.5531 −0.786
0.5546 −0.808
0.5567 −0.830
0.5584 −0.845
0.5606 −0.881
0.5620 −0.895
0.5648 −0.905
0.5660 −0.926
0.5681 −0.955
0.5693 −0.958

2443732 +
0.3218 −0.795
0.3247 −0.765
0.3283 −0.747
0.3295 −0.740
0.3317 −0.733
0.3329 −0.728
0.3357 −0.733
0.3369 −0.710
0.3395 −0.715
0.3433 −0.695
0.3445 −0.692
0.3473 −0.668
0.3483 −0.670
0.3509 −0.660
0.3521 −0.639

2443737 +
0.3425 +0.169
0.3449 +0.149
0.3470 +0.156
0.3478 +0.138
0.3502 +0.164
0.3513 +0.140
0.3533 +0.151
0.3543 +0.141
0.3566 +0.132
0.3577 +0.125
0.3599 +0.105
0.3609 +0.100
0.3633 +0.079
0.3642 +0.077
0.3668 +0.059
0.3682 +0.038
0.3709 −0.018
0.3721 −0.030
0.3754 −0.078
0.3768 −0.103
0.3794 −0.144
0.3808 −0.184
0.3835 −0.258
0.3847 −0.286
0.3874 −0.343
0.3884 −0.354
0.3959 −0.518
0.3971 −0.558
0.4001 −0.563
0.4014 −0.579
0.4046 −0.608
0.4056 −0.597
0.4141 −0.609
0.4183 −0.604
0.4195 −0.619
0.4225 −0.605
0.4238 −0.590
0.4269 −0.591
0.4282 −0.589

2443742 +
0.4778 +0.005
0.4791 +0.007
0.4819 −0.042
0.4833 −0.059
0.4861 −0.106
0.4872 −0.136
0.4914 −0.197
0.4944 −0.239
0.4958 −0.244
0.4989 −0.296
0.5000 −0.311
0.5060 −0.374
0.5094 −0.400
0.5108 −0.413
0.5139 −0.418
0.5168 −0.422
0.5194 −0.430
0.5208 −0.434
0.5232 −0.428
0.5246 −0.431
0.5273 −0.443
0.5287 −0.444
0.5315 −0.432
0.5327 −0.431
0.5352 −0.431
0.5365 −0.435
0.5393 −0.438
0.5435 −0.444
0.5449 −0.455
0.5477 −0.478
0.5491 −0.477
0.5521 −0.488
0.5534 −0.509
0.5566 −0.524
0.5581 −0.537
0.5611 −0.530
0.5625 −0.542
0.5656 −0.553
0.5673 −0.576
0.5701 −0.580
0.5715 −0.578
0.5743 −0.581
0.5754 −0.593
0.5782 −0.601
0.5791 −0.611

2443747 +
0.5440 +0.208
0.5456 +0.225
0.5486 +0.224
0.5499 +0.232
0.5530 +0.220
0.5543 +0.233
0.5569 +0.226
0.5582 +0.223
0.5609 +0.198
0.5622 +0.195

2443749 +
0.2965 +0.094
0.2973 +0.078
0.2992 +0.052
0.3021 +0.018
0.3029 +0.007
0.3049 −0.019
0.3058 −0.041
0.3077 −0.060
0.3087 −0.053
0.3112 −0.085
0.3123 −0.109
0.3152 −0.152
0.3160 −0.157
0.3180 −0.171
0.3189 −0.185
0.3208 −0.201
0.3217 −0.213
0.3236 −0.241
0.3244 −0.255
0.3263 −0.286
0.3272 −0.288
0.3301 −0.326
0.3310 −0.335
0.3330 −0.379
0.3338 −0.396
0.3358 −0.421
0.3368 −0.433
0.3390 −0.456
0.3399 −0.465
0.3420 −0.504
0.3430 −0.525
0.3453 −0.548
0.3462 −0.564
0.3483 −0.588
0.3493 −0.605
0.3513 −0.633
0.3522 −0.648
0.3544 −0.673
0.3553 −0.690
0.3574 −0.702
0.3583 −0.705
0.3605 −0.737
0.3614 −0.741
0 3634 −0.764
0.3643 −0.775
0.3665 −0.782
0.3674 −0.794
0.3697 −0.805
0.3706 −0.806
0.3730 −0.800
0.3738 −0.809
0.3759 −0.810
0.3768 −0.808
0.3793 −0.801
0.3800 −0.808
0.3821 −0.812
0.3829 −0.811
0.3849 −0.809
0.3859 −0.811
0.3880 −0.806
0.3888 −0.802
0.3908 −0.805
0.3919 −0.807

2443750 +
0.4106 +0.232
0.4118 +0.230
0.4146 +0.203
0.4158 +0.207
0.4193 +0.204
0.4206 +0.197
0.4238 +0.177
0.4252 +0.155
0.4284 +0.120

0.4297 +0.112
0.4324 +0.094
0.4338 +0.092
0.4368 +0.061
0.4385 +0.053
0.4418 −0.004
0.4431 −0.029
0.4459 −0.054
0.4472 −0.064
0.4504 −0.135
0.4519 −0.147
0.4552 −0.208
0.4564 −0.240
0.4590 −0.274
0.4650 −0.377
0.4692 −0.464
0.4705 −0.482
0.4736 −0.540
0.4777 −0.619
0.4791 −0.630
0.4820 −0.678
0.4833 −0.705
0.4861 −0.740
0.4875 −0.752
0.4900 −0.785
0.4912 −0.813

2443753 +
0.2953 −0.357
0.2960 −0.384
0.2981 −0.439
0.2990 −0.472
0.3060 −0.600
0.3068 −0.641
0.3088 −0.679
0.3096 −0.679
0.3113 −0.723

2443763 +
0.4708 −0.285
0.4714 −0.290
0.4729 −0.327
0.4737 −0.353
0.4757 −0.405
0.4764 −0.435
0.4786 −0.488
0.4793 −0.515
0.4810 −0.531
0.4818 −0.549
0.4842 −0.618
0.4860 −0.655
0.4867 −0.658
0.4885 −0.674
0.4892 −0.686
0.4911 −0.723
0.4919 −0.742
0.4935 −0.778
0.4943 −0.785
0.4961 −0.802
0.4970 −0.820
0.4987 −0.831
0.4996 −0.837

0.5015 −0.855
0.5030 −0.865
0.5078 −0.913
0.5085 −0.908
0.5103 −0.917
0.5110 −0.911

2443766 +
0.2784 +0.046
0.2811 +0.010
0.2858 −0.063
0.2887 −0.106
0.2902 −0.131
0.2955 −0.226
0.2970 −0.265
0.3002 −0.355
0.3016 −0.379
0.3049 −0.433
0.3063 −0.454
0.3097 −0.549
0.3113 −0.567
0.3141 −0.615
0.3170 −0.651
0.3198 −0.716
0.3241 −0.753
0.3252 −0.761
0.3277 −0.801
0.3292 −0.822
0.3320 −0.833
0.3333 −0.849
0.3362 −0.837
0.3373 −0.838
0.3407 −0.841
0.3419 −0.853
0.3446 −0.854
0.3456 −0.847
0.3485 −0.854
0.3496 −0.847
0.3527 −0.829
0.3543 −0.822
0.3576 −0.811
0.3594 −0.801

2443791 +
0.2404 +0.176
0.2411 +0.172
0.2432 +0.146
0.2441 +0.146
0.2461 +0.117
0.2468 +0.101
0.2487 +0.085
0.2494 +0.086
0.2513 +0.047
0.2520 +0.024
0.2542 +0.005
0.2550 −0.012
0.2570 −0.017
0.2596 −0.057
0.2603 −0.058
0.2634 −0.113
0.2642 −0.121
0.2659 −0.158

0.2673 −0.164
0.2685 −0.193
0.2694 −0.223
0.2712 −0.239
0.2721 −0.252
0.2739 −0.274
0.2749 −0.293
0.2775 −0.362
0.2793 −0.373
0.2801 −0.401
0.2818 −0.430
0.2826 −0.439
0.2857 −0.508
0.2865 −0.513
0.2883 −0.537
0.2890 −0.557
0.2913 −0.591
0.2921 −0.606
0.2938 −0.629
0.2947 −0.659
0.2964 −0.682
0.2973 −0.712
0.2993 −0.738
0.3002 −0.760
0.3020 −0.774
0.3028 −0.787
0.3044 −0.814
0.3053 −0.818
0.3069 −0.818
0.3077 −0.825
0.3094 −0.839
0.3103 −0.852
0.3121 −0.861
0.3130 −0.860
0.3147 −0.844
0.3156 −0.849
0.3182 −0.848
0.3198 −0.852
0.3207 −0.854
0.3226 −0.851
0.3234 −0.852
0.3253 −0.844
0.3261 −0.845

2443792 +
0.3772 +0.145
0.3784 +0.127
0.3812 +0.112
0.3826 +0.088
0.3855 +0.050
0.3866 +0.044
0.3893 +0.008
0.3989 −0.155
0.4020 −0.241
0.4034 −0.274
0.4062 −0.299
0.4076 −0.339
0.4104 −0.392
0.4119 −0.426
0.4145 −0.470
0.4157 −0.509
0.4183 −0.559

0.4196 −0.573
0.4225 −0.623
0.4238 −0.640
0.4264 −0.694
0.4278 −0.714
0.4324 −0.773
0.4350 −0.817
0.4362 −0.820
0.4388 −0.854
0.4400 −0.880
0.4425 −0.889
0.4437 −0.883
0.4462 −0.891
0.4473 −0.892

2443795 +
0.2271 −0.076
0.2278 −0.106
0.2295 −0.131
0.2303 −0.119
0.2320 −0.173
0.2327 −0.202
0.2344 −0.234
0.2351 −0.250
0.2370 −0.293
0.2378 −0.323
0.2395 −0.372
0.2402 −0.410
0.2423 −0.457
0.2431 −0.454
0.2447 −0.504
0.2455 −0.535
0.2475 −0.609
0.2483 −0.620
0.2499 −0.649
0.2506 −0.670
0.2523 −0.724
0.2529 −0.726
0.2548 −0.759
0.2556 −0.783
0.2572 −0.805
0.2580 −0.824
0.2597 −0.862
0.2604 −0.877
0.2620 −0.887
0.2627 −0.893
0.2659 −0.904
0.2679 −0.925
0.2687 −0.927
0.2707 −0.931
0.2715 −0.934
0.2733 −0.945
0.2742 −0.950
0.2758 −0.957
0.2767 −0.961
0.2786 −0.958
0.2797 −0.951
0.2816 −0.953
0.2825 −0.943
0.2841 −0.946
0.2849 −0.940
0.2866 −0.935

0.2874 −0.934
0.2919 −0.919
0.2926 −0.926
0.2944 −0.916
0.2951 −0.899
0.2967 −0.899
0.2975 −0.893

2443796 +
0.3501 +0.031
0.3514 +0.005
0.3548 −0.049
0.3563 −0.064
0.3597 −0.128
0.3615 −0.168
0.3653 −0.257
0.3670 −0.295
0.3709 −0.401
0.3730 −0.446
0.3776 −0.549
0.3827 −0.672
0.3885 −0.794
0.3944 −0.889
0.3997 −0.928
0.4048 −0.977
0.4104 −0.978
0.4175 −0.937
0.4219 −0.889

2443800 +
0.2983 +0.137
0.2994 +0.113
0.3018 +0.117
0.3028 +0.104
0.3038 +0.098
0.3074 +0.038
0.3085 +0.047
0.3107 +0.016
0.3120 −0.034
0.3134 −0.057
0.3157 −0.072
0.3207 −0.200
0.3222 −0.200
0.3234 −0.253
0.3259 −0.304
0.3273 −0.348
0.3288 −0.375
0.3313 −0.414
0.3327 −0.475
0.3341 −0.512
0.3383 −0.575
0.3401 −0.595
0.3427 −0.671
0.3438 −0.685
0.3450 −0.690
0.3473 −0.728
0.3485 −0.759
0.3525 −0.856
0.3550 −0.873
0.3575 −0.885
0.3587 −0.908
0.3602 −0.909

0.3653 −0.939
0.3714 −0.906
0.3729 −0.897

2443975 +
0.4915 −0.446
0.4930 −0.453
0.4963 −0.465
0.4978 −0.467
0.5010 −0.476
0.5033 −0.486
0.5072 −0.485
0.5086 −0.494
0.5125 −0.496
0.5143 −0.501
0.5187 −0.497
0.5206 −0.511
0.5242 −0.514
0.5262 −0.509
0.5299 −0.518
0.5317 −0.516
0.5359 −0.521
0.5382 −0.529
0.5422 −0.537
0.5437 −0.530
0.5479 −0.551
0.5495 −0.549
0.5531 −0.551
0.5555 −0.539
0.5593 −0.539
0.5609 −0.538
0.5646 −0.535
0.5669 −0.534
0.5715 −0.531
0.5730 −0.527
0.5764 −0.517
0.5780 −0.514
0.5819 −0.504
0.5837 −0.501
0.5880 −0.494
0.5895 −0.494
0.5937 −0.481
0.5963 −0.481
0.6000 −0.472
0.6020 −0.466

2443976 +
0.5775 +0.171
0.5787 +0.150
0.5813 +0.135
0.5834 +0.129
0.5855 +0.114
0.5867 +0.103
0.5897 +0.072
0.5940 +0.029
0.5955 −0.001
0.5981 −0.039
0.5997 −0.077
0.6025 −0.107
0.6037 −0.127
0.6085 −0.194
0.6099 −0.214
0.6128 −0.281
0.6142 −0.307
0.6169 −0.351
0.6184 −0.370

2444005 +
0.4911 +0.018
0.4920 +0.009
0.5000 −0.077
0.5011 −0.096
0.5042 −0.140
0.5063 −0.168
0.5073 −0.197
0.5089 −0.253
0.5104 −0.290
0.5125 −0.321
0.5136 −0.336
0.5165 −0.374
0.3175 −0.401

2444009 +
0.4671 +0.005
0.4679 −0.013
0.4697 −0.048
0.4705 −0.056
0.4724 −0.097
0.4734 −0.115
0.4751 −0.147
0.4760 −0.165
0.4786 −0.187
0.4795 −0.211
0.4814 −0.258
0.4822 −0.275
0.4841 −0.326
0.4852 −0.348
0.4871 −0.398
0.4881 −0.410
0.4905 −0.461
0.4918 −0.491
0.4945 −0.527
0.4958 −0.542
0.4980 −0.551
0.4992 −0.561
0.5020 −0.583
0.5036 −0.594
0.5064 −0.611
0.5079 −0.608
0.5108 −0.611
0.5121 −0.615
0.5157 −0.636
0.5171 −0.639
0.5200 −0.644
0.5241 −0.633
0.5255 −0.635
0.5280 −0.636
0.5296 −0.632
0.5328 −0.622
0.5342 −0.615
0.5372 −0.612
0.5385 −0.612
0.5411 −0.599
0.5424 −0.592
0.5454 −0.577
0.5470 −0.572
0.5503 −0.557
0.5517 −0.555

2444013 +
0.4250 +0.107
0.4264 +0.117
0.4285 +0.097
0.4299 +0.080
0.4320 +0.049
0.4333 +0.023
0.4354 +0.008
0.4365 −0.002
0.4382 −0.022
0.4417 −0.088
0.4427 −0.124
0.4445 −0.140
0.4458 −0.182
0.4479 −0.202
0.4493 −0.220
0.4514 −0.265
0.4528 −0.281
0.4549 −0.319
0.4556 −0.329
0.4577 −0.366
0.4583 −0.389
0.4639 −0.479
0.4653 −0.503
0.4674 −0.512
0.4684 −0.506
0.4702 −0.510
0.4715 −0.506
0.4736 −0.508
0.4743 −0.510
0.4771 −0.519
0.4778 −0.514
0.4806 −0.520
0.4820 −0.542

2444018 +
0.5224 +0.177
0.5236 +0.182
0.5257 +0.169
0.5269 +0.162
0.5291 +0.161
0.5303 +0.161
0.5326 +0.156
0.5362 +0.127
0.5373 +0.129
0.5396 +0.101
0.5410 +0.079
0.5432 +0.066
0.5443 +0.058
0.5455 +0.046
0.5482 +0.024
0.5495 +0.013
0.5516 −0.004
0.5528 −0.026
0.5552 −0.065
0.5563 −0.066
0.5592 −0.102
0.5604 −0.135

2444025 +
0.3713 −0.008
0.3727 −0.014
0.3750 −0.034
0.3762 −0.058
0.3782 −0.095
0.3793 −0.108
0.3814 −0.149
0.3823 −0.169
0.3843 −0.185
0.3852 −0.208
0.3873 −0.243
0.3882 −0.259
0.3902 −0.300
0.3913 −0.330
0.3933 −0.363
0.3943 −0.380
0.3964 −0.405
0.3973 −0.444
0.3993 −0.486
0.4003 −0.493
0.4022 −0.520
0.4032 −0.543
0.4050 −0.574
0.4059 −0.590
0.4079 −0.615
0.4089 −0.643
0.4108 −0.662
0.4117 −0.678
0.4136 −0.724
0.4145 −0.751
0.4163 −0.771
0.4171 −0.776
0.4189 −0.811
0.4198 −0.822
0.4218 −0.839
0.4227 −0.847
0.4245 −0.867
0.4254 −0.865
0.4273 −0.881
0.4282 −0.884
0.4302 −0.907
0.4311 −0.904
0.4330 −0.917
0.4340 −0.904
0.4359 −0.904
0.4367 −0.903
0.4386 −0.906
0.4395 −0.898
0.4415 −0.906
0.4425 −0.897
0.4444 −0.899
0.4452 −0.902
0.4471 −0.892
0.4481 −0.889
0.4500 −0.874
0.4509 −0.873
0.4527 −0.856
0.4536 −0.856
0.4554 −0.848
0.4564 −0.833
0.4582 −0.830
0.4590 −0.818
0.4608 −0.807
0.4618 −0.810
0.4636 −0.791
0.4645 −0.792
0.4664 −0.773
0.4673 −0.760

2444051 +
0.4650 −0.509
0.4664 −0.539
0.4684 −0.546
0.4698 −0.545
0.4719 −0.555
0.4733 −0.557
0.4754 −0.541
0.4768 −0.541
0.4789 −0.539
0.4802 −0.536
0.4823 −0.537
0.4837 −0.540
0.4858 −0.541
0.4872 −0.542
0.4900 −0.544
0.4914 −0.542
0.4934 −0.541
0.4948 −0.545
0.4969 −0.533
0.5004 −0.539
0.5018 −0.540
0.5039 −0.538
0.5073 −0.533
0.5087 −0.532

2444060 +
0.4672 +0.200
0.4689 +0.186
0.4728 +0.200
0.4745 +0.210
0.4784 +0.200
0.4807 +0.203
0.4853 +0.190
0.4866 +0.186
0.4915 +0.175
0.4939 +0.179
0.4984 +0.132
0.4998 +0.109
0.5035 +0.081
0.5053 +0.058
0.5096 +0.005
0.5115 −0.009
0.5151 −0.041
0.5168 −0.047
0.5217 −0.110
0.5237 −0.138
0.5283 −0.196
0.5304 −0.238

2444089 +
0.3959 −0.002

Table 4.

0.3971 −0.013
0.4000 −0.047
0.4013 −0.061
0.4036 −0.097
0.4064 −0.159
0.4121 −0.283
0.4147 −0.333
0.4171 −0.399
0.4198 −0.461
0.4225 −0.489
0.4253 −0.510
0.4279 −0.515
0.4302 −0.531
0.4327 −0.532
0.4350 −0.542
0.4374 −0.556
0.4419 −0.564
0.4440 −0.565
0.4467 −0.572
0.4491 −0.566
0.4514 −0.565
0.4539 −0.566
0.4563 −0.567
0.4587 −0.559
0.4620 −0.552
0.4647 −0.550
0.4671 −0.550
0.4698 −0.543
0.4721 −0.537
0.4752 −0.533

2444102 +
0.4511 +0.158
0.4523 +0.150
0.4544 +0.138
0.4555 +0.111
0.4577 +0.078
0.4655 −0.048
0.4665 −0.059
0.4685 −0.090
0.4695 −0.108
0.4719 −0.154
0.4735 −0.176
0.4761 −0.218
0.4779 −0.236
0.4820 −0.293
0.4873 −0.384
0.4887 −0.414
0.4915 −0.455
0.4931 −0.493
0.4964 −0.548
0.4974 −0.577
0.5004 −0.632
0.5017 −0.664
0.5048 −0.723
0.5062 −0.733
0.5094 −0.771
0.5110 −0.792
0.5144 −0.824
0.5156 −0.830
0.5185 −0.844
0.5199 −0.869
0.5226 −0.876
0.5241 −0.876
0.5295 −0.872
0.5320 −0.867
0.5335 −0.859
0.5368 −0.850
0.5384 −0.835
0.5426 −0.807
0.5453 −0.791
0.5464 −0.782

2444111 +
0.5103 +0.159
0.5111 +0.138
0.5129 +0.122
0.5140 +0.113
0.5158 +0.097
0.5169 +0.102
0.5190 +0.093
0.5200 +0.074
0.5219 +0.074
0.5229 +0.063
0.5254 −0.012
0.5265 −0.026
0.5302 −0.094
0.5318 −0.124
0.5345 −0.174
0.5357 −0.210
0.5385 −0.271
0.5399 −0.307
0.5441 −0.398
0.5457 −0.425
0.5486 −0.481
0.5498 −0.493
0.5534 −0.569
0.5544 −0.601

2444132 +
0.4694 +0.125
0.4703 +0.119
0.4722 +0.116
0.4731 +0.111
0.4750 +0.106
0.4760 +0.106
0.4780 +0.095
0.4791 +0.072
0.4815 +0.040
0.4852 −0.008
0.4864 −0.016
0.4886 −0.048
0.4896 −0.080
0.4952 −0.159
0.4962 −0.183
0.4987 −0.220
0.5003 −0.238
0.5040 −0.311
0.5053 −0.325
0.5084 −0.368
0.5094 −0.385
0.5122 −0.391

2444136 +
0.4201 +0.203
0.4209 +0.196
0.4231 +0.208
0.4239 +0.215
0.4258 +0.213
0.4267 +0.201
0.4287 +0.203
0.4295 +0.207
0.4322 +0.195
0.4330 +0.191
0.4384 +0.179
0.4394 +0.178
0.4412 +0.178
0.4421 +0.184
0.4440 +0.169
0.4448 +0.156
0.4466 +0.143
0.4475 +0.150
0.4493 +0.123
0.4502 +0.118
0.4521 +0.101
0.4530 +0.078
0.4548 +0.061
0.4560 +0.040
0.4579 +0.028
0.4588 +0.012
0.4606 +0.001
0.4614 −0.009
0.4634 −0.024
0.4642 −0.028
0.4662 −0.044
0.4670 −0.044
0.4690 −0.075
0.4698 −0.091
0.4720 −0.119
0.4731 −0.134
0.4746 −0.145
0.4754 −0.176
0.4773 −0.189
0.4781 −0.204
0.4801 −0.236
0.4809 −0.249
0.4827 −0.281
0.4836 −0.284
0.4855 −0.293
0.4864 −0.292
0.4883 −0.297
0.4892 −0.307
0.4911 −0.314
0.4920 −0.322
0.4938 −0.328
0.4948 −0.328
0.4966 −0.341
0.4974 −0.345
0.4993 −0.367
0.5002 −0.367
0.5021 −0.377
0.5030 −0.386
0.5058 −0.395
0.5078 −0.428
0.5087 −0.438
0.5109 −0.457
0.5118 −0.458
0.5139 −0.486
0.5147 −0.492
0.5166 −0.510
0.5174 −0.529

2444143 +
0.2621 +0.186
0.2629 +0.196
0.2646 +0.198
0.2654 +0.179
0.2673 +0.165
0.2681 +0.154
0.2700 +0.142
0.2709 +0.134
0.2728 +0.111
0.2736 +0.100
0.2757 +0.084
0.2765 +0.065
0.2784 +0.039
0.2792 +0.037
0.2812 −0.003
0.2820 −0.011
0.2840 −0.049
0.2849 −0.054
0.2872 −0.100
0.2880 −0.119
0.2898 −0.174
0.2908 −0.191
0.2927 −0.231
0.2935 −0.243
0.2953 −0.295
0.2961 −0.312
0.2980 −0.350
0.2990 −0.382
0.3008 −0.396
0.3017 −0.411
0.3038 −0.446
0.3048 −0.481
0.3073 −0.530
0.3084 −0.550
0.3107 −0.600
0.3117 −0.619
0.3148 −0.682
0.3167 −0.711
0.3176 −0.730
0.3195 −0.756
0.3204 −0.768
0.3227 −0.796
0.3236 −0.805
0.3253 −0.825
0.3262 −0.844
0.3281 −0.845
0.3289 −0.862
0.3307 −0.868
0.3316 −0.889
0.3336 −0.894
0.3344 −0.895
0.3362 −0.901
0.3371 −0.915
0.3390 −0.919
0.3399 −0.925
0.3419 −0.924
0.3427 −0.934
0.3446 −0.934
0.3454 −0.937
0.3472 −0.929
0.3481 −0.935
0.3501 −0.925
0.3509 −0.922

2444147 +
0.2545 −0.119
0.2554 −0.133
0.2571 −0.190
0.2578 −0.212
0.2597 −0.254
0.2605 −0.278
0.2625 −0.321
0.2634 −0.346
0.2652 −0.385
0.2661 −0.423
0.2682 −0.470
0.2690 −0.499
0.2709 −0.545
0.2718 −0.559
0.2742 −0.629
0.2751 −0.635
0.2770 −0.688
0.2778 −0.708
0.2799 −0.740
0.2808 −0.759
0.2828 −0.804
0.2837 −0.837
0.2859 −0.866
0.2868 −0.884
0.2891 −0.921
0.2899 −0.945
0.2920 −0.955
0.2928 −0.967
0.2947 −0.990
0.2956 −0.989
0.2977 −1.007
0.2986 −1.014
0.3010 −1.011
0.3020 −1.013
0.3039 −1.009
0.3049 −1.002
0.3067 −1.005
0.3076 −0.996
0.3094 −0.981
0.3103 −0.972

2444156 +
0.3289 −0.656
0.3302 −0.678
0.3351 −0.705
0.3381 −0.726
0.3395 −0.750
0.3428 −0.778
0.3445 −0.778
0.3478 −0.787
0.3497 −0.784
0.3534 −0.790

0.3552 −0.796
0.3591 −0.781
0.3607 −0.789
0.3641 −0.778
0.3657 −0.771
0.3696 −0.744
0.3713 −0.732
0.3755 −0.713
0.3773 −0.700
0.3808 −0.686
0.3831 −0.664
0.3864 −0.673
0.3877 −0.654
0.3926 −0.637
0.3947 −0.621
0.3984 −0.595
0.4002 −0.577

2444157 +
0.4195 +0.016
0.4205 +0.001
0.4241 −0.036
0.4278 −0.097
0.4291 −0.106
0.4328 −0.163
0.4340 −0.195
0.4373 −0.269
0.4385 −0.301
0.4419 −0.375
0.4433 −0.401
0.4465 −0.472
0.4475 −0.487

2444160 +
0.2832 −0.553
0.2868 −0.597
0.2875 −0.604
0.2900 −0.640
0.2908 −0.648
0.2932 −0.668
0.2941 −0.677
0.2965 −0.684
0.2973 −0.698
0.2997 −0.706
0.3005 −0.711
0.3026 −0.732
0.3057 −0.736
0.3066 −0.750

2444215 +
0.2474 +0.118
0.2483 +0.105
0.2508 +0.088
0.2516 +0.086
0.2540 +0.056
0.2552 +0.047
0.2579 +0.030
0.2586 +0.026
0.2613 −0.002
0.2623 −0.011
0.2666 −0.059
0.2688 −0.076
0.2697 −0.091
0.2787 −0.177
0.2796 −0.185
0.2823 −0.201
0.2832 −0.215
0.2861 −0.238
0.2876 −0.253

2444402 +
0.3656 −0.690
0.3665 −0.695
0.3687 −0.677
0.3696 −0.670
0.3718 −0.667
0.3728 −0.660
0.3748 −0.667
0.3759 −0.669
0.3783 −0.653
0.3792 −0.644
0.3814 −0.633
0.3824 −0.622
0.3868 −0.615
0.3877 −0.609
0.3900 −0.606
0.3910 −0.602
0.3934 −0.602
0.3945 −0.594
0.3969 −0.589
0.3979 −0.582
0.4002 −0.585
0.4013 −0.580
0.4034 −0.578
0.4044 −0.571

2444407 +
0.4439 −0.420
0.4450 −0.424
0.4481 −0.439
0.4502 −0.443
0.4532 −0.451
0.4545 −0.448
0.4574 −0.460
0.4589 −0.457
0.4623 −0.451
0.4638 −0.462
0.4674 −0.463
0.4690 −0.454
0.4722 −0.464
0.4734 −0.464
0.4768 −0.465
0.4782 −0.465
0.4818 −0.483
0.4833 −0.480
0.4865 −0.498
0.4914 −0.511
0.4974 −0.531
0.4989 −0.528
0.5026 −0.562
0.5040 −0.554
0.5087 −0.558
0.5134 −0.555
0.5147 −0.551
0.5183 −0.555
0.5197 −0.547
0.5233 −0.548
0.5247 −0.549
0.5280 −0.549
0.5293 −0.546
0.5336 −0.535
0.5349 −0.534

2444453 +
0.3260 +0.172
0.3271 +0.169
0.3298 +0.150
0.3308 +0.156
0.3334 +0.120
0.3350 +0.112
0.3372 +0.090
0.3383 +0.095
0.3405 +0.071
0.3494 −0.011
0.3504 −0.026
0.3528 −0.035
0.3539 −0.040
0.3564 −0.090
0.3573 −0.097
0.3594 −0.136
0.3604 −0.150
0.3627 −0.161
0.3636 −0.169
0.3660 −0.197
0.3669 −0.203
0.3693 −0.248
0.3702 −0.260
0.3724 −0.269
0.3733 −0.270
0.3757 −0.282
0.3767 −0.291
0.3790 −0.321
0.3801 −0.337
0.3887 −0.438
0.3895 −0.453
0.3934 −0.504
0.3942 −0.510
0.3964 −0.546
0.3972 −0.556
0.3994 −0.585
0.4004 −0.587
0.4029 −0.619
0.4038 −0.625
0.4059 −0.659
0.4068 −0.675
0.4159 −0.761
0.4167 −0.767
0.4188 −0.804
0.4199 −0.811

2444487 +
0.3436 −0.014
0.3449 −0.023
0.3484 −0.067
0.3517 −0.096
0.3553 −0.163
0.3567 −0.173
0.3782 −0.385
0.3794 −0.389
0.3827 −0.425
0.3839 −0.441
0.3873 −0.454
0.3921 −0.495
0.3935 −0.499
0.3972 −0.509
0.3986 −0.530
0.4022 −0.529
0.4036 −0.542
0.4067 −0.551
0.4080 −0.552
0.4111 −0.557
0.4125 −0.552
0.4160 −0.574
0.4172 −0.577
0.4206 −0.581
0.4252 −0.594
0.4266 −0.593
0.4296 −0.596
0.4309 −0.590
0.4354 −0.596
0.4368 −0.599
0.4403 −0.591
0.4417 −0.584
0.4449 −0.581
0.4465 −0.581
0.4504 −0.583
0.4516 −0.574

2444495 +
0.2858 +0.079
0.2866 +0.065
0.2891 +0.022
0.2900 +0.036
0.2919 +0.007
0.2929 −0.029
0.2959 −0.058
0.2969 −0.065
0.3012 −0.110
0.3022 −0.127
0.3043 −0.133
0.3051 −0.169
0.3073 −0.199
0.3081 −0.219
0.3101 −0.232
0.3110 −0.239
0.3130 −0.265
0.3139 −0.283
0.3161 −0.319
0.3172 −0.324
0.3253 −0.460
0.3282 −0.499
0.3292 −0.524
0.3311 −0.562
0.3319 −0.560
0.3342 −0.581
0.3351 −0.598
0.3417 −0.676
0.3436 −0.705
0.3488 −0.741
0.3497 −0.749
0.3517 −0.764
0.3526 −0.771
0.3543 −0.772
0.3552 −0.776
0.3572 −0.785
0.3580 −0.781
0.3599 −0.786
0.3610 −0.802
0.3627 −0.797
0.3636 −0.809
0.3656 −0.797
0.3665 −0.795
0.3689 −0.786
0.3698 −0.794
0.3716 −0.785
0.3763 −0.776
0.3772 −0.768
0.3792 −0.757
0.3800 −0.745

2444784 +
0.4123 −0.632
0.4134 −0.640
0.4179 −0.648
0.4189 −0.666
0.4233 −0.661
0.4245 −0.664
0.4286 −0.672
0.4300 −0.667
0.4339 −0.666
0.4355 −0.665
0.4423 −0.667
0.4440 −0.666
0.4473 −0.657
0.4491 −0.649
0.4531 −0.637
0.4549 −0.631
0.4581 −0.632
0.4597 −0.626
0.4628 −0.615
0.4642 −0.608
0.4757 −0.572
0.4774 −0.559
0.4805 −0.550
0.4820 −0.549

2444788 +
0.3602 −0.378
0.3612 −0.395
0.3634 −0.428
0.3643 −0.410
0.3682 −0.453
0.3691 −0.470
0.3713 −0.475
0.3723 −0.488
0.3745 −0.491
0.3753 −0.501
0.3774 −0.503
0.3782 −0.510
0.3801 −0.512

0.3809 −0.515	0.4503 −0.399	0.3825 −0.339	2444822 +	0.3545 −0.831
0.3829 −0.513	0.4544 −0.427	0.3835 −0.368	0.3616 −0.296	0.3582 −0.862
0.3840 −0.516	0.4560 −0.456	0.3856 −0.444	0.3625 −0.330	0.3598 −0.871
0.3861 −0.533	0.4597 −0.499	0.3864 −0.474	0.3681 −0.409	0.3648 −0.888
0.3871 −0.535	0.4611 −0.524	0.3889 −0.570	0.3691 −0.437	0.3777 −0.850
0.3894 −0.548	0.4689 −0.624		0.3721 −0.493	0.3791 −0.848
0.3904 −0.551	0.4705 −0.633	2444819 +	0.3729 −0.511	0.3824 −0.832
0.3930 −0.550	0.4744 −0.665	0.4028 +0.044	0.3753 −0.554	0.3840 −0.839
0.3939 −0.560	0.4760 −0.680	0.4040 +0.052	0.3761 −0.557	
0.3968 −0.565	0.4801 −0.712	0.4075 +0.058	0.3788 −0.586	2444855 +
0.3978 −0.565	0.4814 −0.718	0.4089 +0.055	0.3797 −0.595	0.2855 −0.793
0.4000 −0.574	0.4853 −0.743	0.4118 +0.058	0.3825 −0.621	0.2862 −0.789
0.4010 −0.565	0.4867 −0.746	0.4132 +0.058	0.3835 −0.628	0.2878 −0.800
0.4037 −0.574	0.4912 −0.754	0.4165 +0.062	0.3862 −0.638	0.2885 −0.802
0.4046 −0.574	0.4966 −0.760	0.4179 +0.065	0.3872 −0.649	0.2902 −0.796
0.4066 −0.584	0.5003 −0.749	0.4224 +0.072	0.3904 −0.676	0.291i −0.789
0.4075 −0.579	0.5043 −0.747	0.4240 +0.072	0.3913 −0.679	0.2927 −0.786
0.4099 −0.580	0.5059 −0.743	0.4273 +0.073	0.3942 −0.685	0.2935 −0.784
0.4107 −0.589	0.5098 −0.725	0.4285 +0.074	0.3952 −0.692	0.2952 −0.780
0.4129 −0.592	0.5120 −0.717	0.4318 +0.083	0.3981 −0.698	0.2961 −0.781
0.4136 −0.585	0.5191 −0.698	0.4335 +0.081	0.3990 −0.700	0.2981 −0.783
0.4157 −0.598	0.5204 −0.689	0.4379 +0.082	0.4019 −0.705	0.2989 −0.776
0.4164 −0.595		0.4398 +0.078	0.4029 −0.706	0.3010 −0.773
0.4187 −0.598	2444805 +	0.4436 +0.088	0.4055 −0.701	0.3019 −0.771
0.4194 −0.598	0.3607 +0.048	0.4455 +0.086	0.4064 −0.700	
0.4226 −0.594	0.3615 +0.023	0.4495 +0.098	0.4091 −0.702	2444874 +
0.4236 −0.594	0.3637 +0.010	0.4514 +0.104	0.4100 −0.701	0.4101 +0.181
	0.3647 +0.000	0.4556 +0.117	0.4131 −0.699	0.4111 +0.175
2444797 +	0.3669 −0.030	0.4570 +0.121	0.4140 −0.696	0.4140 +0.194
0.4286 −0.124	0.3678 −0.045	0.4691 +0.143	0.4170 −0.686	0.4150 +0.175
0.4298 −0.141	0.3699 −0.077	0.4703 +0.148	0.4178 −0.684	0.4210 +0.170
0.4330 −0.179	0.3710 −0.101	0.4750 +0.152	0.4208 −0.686	0.4218 +0.173
0.4344 −0.196	0.3736 −0.152	0.4763 +0.162	0.4219 −0.689	0.4287 +0.163
0.4380 −0.236	0.3746 −0.163	0.4799 +0.164		0.4295 +0.161
0.4393 −0.250	0.3768 −0.215	0.4815 +0.163	2444847 +	0.4326 +0.150
0.4434 −0.298	0.3777 −0.234	0.4855 +0.154	0.3472 −0.767	
0.4448 −0.313	0.3797 −0.284	0.4867 +0.157	0.3489 −0.787	
0.4487 −0.380	0.3806 −0.306		0.3531 −0.808	

Table 5: Photoelectric U observations

2437776 +	0.5640 −0.565	0.4659 +0.012	0.5175 −0.373	0.5068 +0.043
0.4929 −0.021	0.5661 −0.586	0.4680 +0.012	0.5210 −0.438	0.5096 −0.013
0.4957 −0.020	0.5689 −0.578	0.4729 −0.004	0.5231 −0.467	0.5117 −0.050
0.4984 −0.003	0.5717 −0.568	0.4750 +0.004	0.5253 −0.496	0.5138 −0.084
0.5009 −0.005	0.5773 −0.582	0.4770 +0.004	0.5273 −0.513	0.5159 −0.139
0.5061 −0.005	0.5794 −0.579	0.4791 −0.014	0.5293 −0.528	0.5214 −0.245
0.5085 −0.005	0.5822 −0.577	0.4812 −0.011	0.5321 −0.536	0.5235 −0.300
0.5106 −0.004	0.5843 −0.571	0.4854 −0.018	0.5342 −0.537	0.5256 −0.349
0.5133 −0.030	0.5898 −0.566	0.4875 −0.027	0.5370 −0.537	0.5277 −0.382
0.5251 −0.136	0.5925 −0.578	0.4895 −0.047	0.5384 −0.536	0.5325 −0.494
0.5287 −0.159	0.5951 −0.574	0.4916 −0.069	0.5404 −0.526	0.5353 −0.570
0.5317 −0.206	0.5979 −0.563	0.4937 −0.074	0.5722 −0.522	0.5374 −0.664
0.5349 −0.236	0.6046 −0.563	0.4974 −0.100	0.5741 −0.518	0.5395 −0.712
0.5404 −0.269		0.4995 −0.129	0.5762 −0.529	0.5464 −0.886
0.5425 −0.314	2437780 +	0.5016 −0.157	0.5798 −0.529	0.5485 −0.916
0.5452 −0.327	0.4490 −0.001	0.5037 −0.211	0.5874 −0.542	0.5506 −0.949
0.5474 −0.355	0.4513 −0.008	0.5058 −0.249	0.5901 −0.549	0.5534 −0.989
0.5522 −0.419	0.4541 +0.008	0.5092 −0.287	0.5936 −0.535	0.5568 −1.030
0.5550 −0.463	0.4597 +0.001	0.5113 −0.300	0.5993 −0.516	0.5603 −1.050
0.5568 −0.482	0.4618 +0.013	0.5134 −0.351		0.5638 −1.049
0.5589 −0.539	0.4637 +0.026	0.5155 −0.348	2437835 +	0.5659 −1.049

Table 5.

0.5680 −1.040

2437839 +
0.4401 +0.057
0.4421 +0.048
0.4442 +0.043
0.4463 +0.041
0.4526 +0.016
0.4549 +0.038
0.4560 +0.023
0.4616 +0.073
0.4637 +0.064
0.4657 +0.032
0.4678 +0.026
0.4713 −0.044
0.4776 −0.161
0.4796 −0.175
0.4838 −0.264
0.4859 −0.299
0.4880 −0.325
0.4901 −0.356
0.4935 −0.447
0.4956 −0.542
0.4977 −0.632
0.4998 −0.676
0.5019 −0.724
0.5060 −0.840
0.5088 −0.904
0.5116 −0.940
0.5144 −0.996
0.5199 −1.088
0.5227 −1.120
0.5248 −1.131
0.5269 −1.138
0.5296 −1.143
0.5352 −1.138
0.5373 −1.115
0.5401 −1.105
0.5428 −1.074

2437872 +
0.3479 +0.045
0.3494 +0.014
0.3558 −0.014
0.3569 −0.036
0.3582 −0.050
0.3611 −0.067
0.3625 −0.080
0.3640 −0.111
0.3671 −0.148
0.3690 −0.166
0.3712 −0.194
0.3752 −0.234
0.3767 −0.242
0.3782 −0.252
0.3816 −0.331
0.3831 −0.355
0.3845 −0.390
0.3884 −0.459
0.3902 −0.513
0.3918 −0.545
0.3956 −0.613

0.3974 −0.665
0.3989 −0.698
0.4022 −0.767
0.4037 −0.791
0.4054 −0.840
0.4087 −0.894
0.4107 −0.912
0.4123 −0.938
0.4159 −1.002
0.4173 −1.010
0.4190 −1.015
0.4224 −1.046
0.4245 −1.039
0.4264 −1.050
0.4306 −1.022
0.4325 −1.005
0.4343 −1.011
0.4379 −1.011
0.4398 −0.993
0.4419 −0.985
0.4457 −0.980
0.4476 −0.962
0.4494 −0.958
0.4536 −0.932
0.4554 −0.921
0.4572 −0.901
0.4614 −0.885
0.4633 −0.869
0.4651 −0.855
0.4689 −0.821
0.4706 −0.801
0.4724 −0.790

2437877 +
0.3973 +0.045
0.4014 +0.042
0.4035 +0.029
0.4056 +0.045
0.4095 +0.069
0.4106 +0.069
0.4120 +0.072
0.4130 +0.060
0.4140 +0.061
0.4151 +0.061
0.4192 +0.075
0.4213 +0.093
0.4234 +0.093
0.4255 +0.092
0.4276 +0.092
0.4318 +0.083
0.4338 +0.074
0.4359 +0.068
0.4380 +0.063
0.4415 +0.085
0.4436 +0.085
0.4456 +0.052
0.4477 +0.052
0.4498 +0.052
0.4540 +0.033
0.4561 +0.050
0.4581 +0.001
0.4602 −0.008

0.4635 −0.110
0.4648 −0.126
0.4662 −0.180
0.4676 −0.204
0.4690 −0.233
0.4722 −0.327
0.4736 +0.358
0.4750 −0.389
0.4764 −0.419
0.4811 −0.539
0.4824 −0.595
0.4838 −0.635
0.4852 −0.670
0.4866 −0.721
0.4894 −0.786
0.4908 −0.836
0.4922 −0.874
0.4936 −0.927
0.4959 −0.964
0.4972 −1.003
0.4986 −1.023
0.5000 −1.033
0.5014 −1.044
0.5049 −1.083
0.5063 −1.084
0.5077 −1.106
0.5091 −1.120
0.5116 −1.126
0.5130 −1.132
0.5144 −1.129
0.5158 −1.129
0.5172 −1.137
0.5206 −1.141
0.5220 −1.137
0.5234 −1.131
0.5248 −1.130
0.5274 −1.107
0.5287 −1.102
0.5301 −1.096
0.5315 −1.085
0.5329 −1.082
0.5357 −1.052
0.5371 −1.040
0.5385 −1.031
0.5398 −1.016
0.5429 −1.001
0.5442 −0.990
0.5456 −0.970
0.5475 −0.954
0.5489 −0.943
0.5519 −0.908
0.5533 −0.898
0.5547 −0.888
0.5561 −0.884
0.5584 −0.876
0.5598 −0.850
0.5611 −0.864
0.5625 −0.838
0.5639 −0.834
0.5667 −0.830
0.5681 −0.814
0.5695 −0.802

0.5709 −0.786
0.5732 −0.757
0.5746 −0.757
0.5774 −0.712
0.5787 −0.708

2437897 +
0.3337 −0.629
0.3352 −0.622
0.3380 −0.628
0.3400 −0.623
0.3416 −0.630
0.3451 −0.616
0.3465 −0.605
0.3481 −0.589
0.3516 −0.575
0.3533 −0.570
0.3549 −0.562
0.3580 −0.560
0.3596 −0.563
0.3615 −0.555
0.3660 −0.553
0.3676 −0.545
0.3693 −0.539
0.3730 −0.537
0.3747 −0.535
0.3764 −0.528
0.3806 −0.514
0.3825 −0.512
0.3840 −0.507
0.3879 −0.491

2437898 +
0.3664 +0.022
0.3680 +0.015
0.3700 +0.007
0.3714 +0.004
0.3728 −0.001
0.3742 −0.008
0.3777 −0.008
0.3791 −0.008
0.3814 −0.008
0.3858 +0.002
0.3872 +0.003
0.3886 −0.008
0.3918 −0.007
0.3932 −0.007
0.3948 −0.013
0.3983 −0.006
0.3997 −0.014
0.4010 −0.017
0.4057 −0.068
0.4089 −0.130
0.4122 −0.206
0.4136 −0.234
0.4156 −0.236
0.4198 −0.267
0.4212 −0.273
0.4228 −0.328
0.4265 −0.402
0.4279 −0.420
0.4293 −0.442

0.4328 −0.471
0.4342 −0.500
0.4356 −0.514
0.4383 −0.556
0.4397 −0.570
0.4411 −0.591
0.4441 −0.603
0.4455 −0.606
0.4471 −0.565
0.4504 −0.541
0.4518 −0.543
0.4531 −0.513
0.4564 −0.499
0.4578 −0.502
0.4592 −0.505
0.4629 −0.505
0.4642 −0.513
0.4656 −0.513
0.4684 −0.507
0.4698 −0.504
0.4719 −0.496
0.4758 −0.487
0.4772 −0.476
0.4786 −0.482
0.4823 −0.484
0.4837 −0.489
0.4851 −0.496
0.4886 −0.494
0.4899 −0.509
0.4913 −0.509
0.4953 −0.519
0.4967 −0.518
0.4980 −0.515
0.5029 −0.527
0.5052 −0.529
0.5066 −0.531
0.5108 −0.530
0.5122 −0.531
0.5136 −0.531
0.5180 −0.531
0.5193 −0.531
0.5224 −0.526
0.5237 −0.531
0.5251 −0.510

2438216 +
0.4017 +0.000
0.4033 −0.003
0.4046 −0.005
0.4088 −0.002
0.4105 +0.011
0.4124 −0.009
0.4169 −0.003
0.4184 −0.006
0.4228 +0.002
0.4245 +0.003
0.4264 +0.000
0.4281 −0.003
0.4322 −0.023
0.4341 −0.037
0.4357 −0.054
0.4371 −0.054

Table 5.

0.4402 −0.084
0.4414 −0.162
0.4427 −0.204
0.4452 −0.278
0.4487 −0.321
0.4507 −0.351
0.4519 −0.357
0.4531 −0.365
0.4553 −0.404
0.4567 −0.485
0.4580 −0.504
0.4589 −0.524
0.4614 −0.530
0.4624 −0.524
0.4635 −0.535
0.4645 −0.547
0.4667 −0.552
0.4682 −0.568
0.4692 −0.578
0.4703 −0.601
0.4728 −0.649
0.4747 −0.667
0.4764 −0.693
0.4778 −0.710
0.4806 −0.709
0.4819 −0.719
0.4831 −0.714
0.4846 −0.715
0.4884 −0.733
0.4897 −0.727
0.4913 −0.727
0.4929 −0.717
0.4957 −0.737
0.4971 −0.738
0.4986 −0.739
0.5006 −0.741
0.5049 −0.739
0.5061 −0.746
0.5076 −0.721
0.5089 −0.722
0.5123 −0.698
0.5136 −0.701
0.5153 −0.678
0.5172 −0.658
0.5205 −0.663
0.5218 −0.656
0.5230 −0.646
0.5240 −0.638
0.5267 −0.623
0.5281 −0.633
0.5292 −0.624
0.5304 −0.617
0.5332 −0.614
0.5358 −0.605
0.5371 −0.600
0.5388 −0.596
0.5417 −0.589
0.5431 −0.592
0.5443 −0.589
0.5455 −0.586
0.5489 −0.565
0.5503 −0.566
0.5514 −0.570
0.5524 −0.557

2438220 +
0.4176 −0.359
0.4195 −0.382
0.4235 −0.420
0.4251 −0.440
0.4286 −0.443
0.4303 −0.451
0.4337 −0.481
0.4354 −0.501
0.4391 −0.532
0.4409 −0.534
0.4449 −0.559
0.4471 −0.579
0.4510 −0.599
0.4527 −0.607
0.4568 −0.630
0.4587 −0.633
0.4629 −0.657
0.4651 −0.685
0.4696 −0.721
0.4716 −0.723
0.4756 −0.733
0.4792 −0.732
0.4851 −0.748
0.4873 −0.753
0.4912 −0.763
0.4932 −0.754
0.4977 −0.741
0.4996 −0.741
0.5046 −0.712
0.5064 −0.720
0.5125 −0.687
0.5170 −0.656
0.5188 −0.652

2438229 +
0.4734 +0.024
0.4748 +0.016
0.4762 +0.016
0.4793 −0.050
0.4806 −0.091
0.4822 −0.122
0.4854 −0.159
0.4866 −0.179
0.4880 −0.190
0.4910 −0.221
0.4924 −0.235
0.4936 −0.241
0.4963 −0.268
0.4977 −0.319
0.4988 −0.368
0.5017 −0.416
0.5031 −0.432
0.5043 −0.449
0.5068 −0.487
0.5082 −0.507
0.5125 −0.579
0.5140 −0.598
0.5156 −0.607
0.5188 −0.631
0.5202 −0.642
0.5213 −0.646
0.5241 −0.673
0.5257 −0.685
0.5269 −0.699
0.5295 −0.720
0.5309 −0.733
0.5321 −0.740
0.5354 −0.753
0.5373 −0.764
0.5394 −0.775
0.5429 −0.780
0.5443 −0.780
0.5463 −0.793
0.5491 −0.786
0.5508 −0.782
0.5529 −0.785
0.5564 −0.796
0.5582 −0.806
0.5597 −0.808
0.5632 −0.805
0.5651 −0.809
0.5665 −0.804
0.5700 −0.799
0.5713 −0.799
0.5726 −0.795
0.5752 −0.794
0.5767 −0.791
0.5779 −0.785
0.5811 −0.762

2438258 +
0.3497 +0.035
0.3511 +0.030
0.3539 +0.004
0.3549 +0.008
0.3560 +0.012
0.3591 +0.004
0.3605 +0.004
0.3664 +0.024
0.3674 +0.029
0.3685 +0.014
0.3730 +0.010
0.3744 −0.008
0.3754 −0.040
0.3782 −0.067
0.3792 −0.078
0.3803 −0.097
0.3834 −0.133
0.3845 −0.145
0.3855 −0.148
0.3886 −0.212
0.3897 −0.222
0.3907 −0.244
0.3945 −0.285
0.3956 −0.295
0.3966 −0.308
0.3990 −0.357
0.4001 −0.369
0.4011 −0.375
0.4046 −0.418
0.4060 −0.431
0.4070 −0.449
0.4102 −0.488
0.4122 −0.506
0.4133 −0.518
0.4164 −0.550
0.4174 −0.555
0.4185 −0.566
0.4213 −0.604
0.4227 −0.618
0.4240 −0.628
0.4265 −0.644
0.4275 −0.654
0.4286 −0.664
0.4313 −0.701
0.4327 −0.701
0.4338 −0.714
0.4372 −0.736
0.4390 −0.744
0.4400 −0.765
0.4428 −0.787
0.4438 −0.799
0.4452 −0.803
0.4480 −0.800
0.4490 −0.800
0.4504 −0.805
0.4536 −0.798
0.4555 −0.804
0.4567 −0.800
0.4598 −0.806
0.4612 −0.812
0.4625 −0.804
0.4654 −0.796
0.4668 −0.797
0.4681 −0.796
0.4716 −0.779
0.4730 −0.763
0.4747 −0.753
0.4782 −0.716
0.4792 −0.706
0.4806 −0.702

2438275 +
0.3824 +0.025
0.3845 +0.010
0.3887 −0.009
0.3908 −0.027
0.3949 −0.037
0.3970 −0.046

2438283 +
0.4054 −0.828
0.4071 −0.830
0.4085 −0.834
0.4120 −0.843
0.4130 −0.840
0.4161 −0.846
0.4175 −0.847
0.4203 −0.851
0.4217 −0.845
0.4241 −0.816
0.4255 −0.807
0.4290 −0.780
0.4304 −0.786
0.4342 −0.753
0.4352 −0.753
0.4383 −0.750
0.4397 −0.746

2438287 +
0.2932 +0.000
0.2947 −0.016
0.2980 −0.017
0.2998 −0.046
0.3015 −0.059
0.3052 −0.082
0.3067 −0.127
0.3095 −0.159
0.3118 −0.266
0.3138 −0.322
0.3154 −0.339
0.3189 −0.395
0.3208 −0.413
0.3222 −0.427
0.3253 −0.473
0.3267 −0.483
0.3279 −0.508
0.3322 −0.574
0.3340 −0.584
0.3357 −0.612
0.3387 −0.644
0.3401 −0.661
0.3420 −0.661
0.3460 −0.694
0.3475 −0.697
0.3494 −0.716
0.3536 −0.727
0.3548 −0.727
0.3564 −0.736
0.3600 −0.745
0.3618 −0.758
0.3632 −0.756
0.3668 −0.757
0.3684 −0.762
0.3697 −0.764
0.3727 −0.772
0.3743 −0.778
0.3762 −0.762
0.3793 −0.771
0.3810 −0.773
0.3826 −0.788
0.3861 −0.767
0.3895 −0.765
0.3967 −0.749
0.3984 −0.738
0.4012 −0.739
0.4026 −0.730
0.4038 −0.719
0.4059 −0.710
0.4069 −0.698
0.4083 −0.681
0.4105 −0.667
0.4116 −0.672
0.4126 −0.665

0.4147 −0.649	0.4318 −0.993	0.3524 −0.912	0.3846 −0.365	0.3203 −0.607
0.4157 −0.649	0.4360 −0.985	0.3538 −0.964	0.3884 −0.439	0.3224 −0.623
0.4168 −0.649	0.4381 −0.990	0.3587 −1.031	0.3898 −0.498	0.3235 −0.623
0.4188 −0.646	0.4401 −0.961	0.3611 −1.044	0.3912 −0.520	0.3245 −0.642
0.4199 −0.642	0.4443 −0.936	0.3649 −1.064	0.3947 −0.559	0.3266 −0.628
0.4210 −0.646	0.4464 −0.931	0.3670 −1.069	0.3961 −0.577	0.3276 −0.638
	0.4485 −0.937	0.3718 −1.073	0.3975 −0.599	0.3287 −0.646
2438316 +	0.4526 −0.911	0.3739 −1.065	0.4006 −0.625	0.3308 −0.643
0.2466 −0.481	0.4547 −0.871	0.3795 −1.039	0.4027 −0.669	0.3318 −0.638
0.2487 −0.509	0.4568 −0.870	0.3816 −1.028	0.4058 −0.683	0.3328 −0.640
0.2529 −0.581	0.4610 −0.847	0.3906 −0.936	0.4068 −0.715	0.3349 −0.624
0.2550 −0.597	0.4631 −0.847	0.3934 −0.928	0.4082 −0.729	0.3360 −0.640
0.2581 −0.663	0.4651 −0.822	0.3989 −0.894	0.4113 −0.775	0.3370 −0.643
0.2626 −0.722		0.4010 −0.879	0.4127 −0.776	0.3391 −0.655
0.2651 −0.718	2438614 +		0.4141 −0.787	0.3401 −0.650
0.2671 −0.735	0.3642 +0.010	2438627 +	0.4183 −0.829	0.3432 −0.653
0.2716 −0.732	0.3662 +0.000	0.3776 +0.033	0.4200 −0.839	0.3443 −0.645
0.2737 −0.727	0.3704 −0.016	0.3797 +0.026	0.4218 −0.861	0.3453 −0.632
0.2758 −0.739	0.3725 −0.045	0.3839 +0.028	0.4252 −0.899	0.3485 −0.635
0.2799 −0.730	0.3766 −0.076	0.3860 +0.008	0.4263 −0.894	0.3509 −0.628
0.2820 −0.742	0.3829 −0.134	0.3901 +0.012	0.4277 −0.894	0.3530 −0.629
0.2841 −0.739	0.3850 −0.172	0.3922 +0.027	0.4318 −0.912	0.3551 −0.640
0.2886 −0.756	0.3912 −0.249	0.3964 +0.040	0.4332 −0.913	0.3568 −0.636
0.2910 −0.745	0.3954 −0.285	0.3985 +0.028	0.4343 −0.919	0.3589 −0.634
0.2935 −0.746	0.3975 −0.324	0.4033 +0.018	0.4384 −0.916	0.3599 −0.621
0.2976 −0.754	0.4016 −0.354	0.4054 −0.003	0.4402 −0.917	0.3610 −0.631
0.2997 −0.752	0.4037 −0.379	0.4096 −0.059	0.4416 −0.917	0.3630 −0.602
0.3018 −0.760	0.4079 −0.455	0.4117 −0.083	0.4450 −0.916	0.3641 −0.605
0.3060 −0.747	0.4100 −0.484	0.4158 −0.245	0.4468 −0.865	0.3651 −0.601
0.3081 −0.726	0.4148 −0.521	0.4179 −0.274	0.4482 −0.873	0.3672 −0.552
0.3102 −0.732	0.4162 −0.540	0.4221 −0.382	0.4516 −0.849	0.3682 −0.559
0.3153 −0.723	0.4204 −0.590	0.4242 −0.449	0.4527 −0.849	0.3693 −0.573
0.3174 −0.718	0.4225 −0.618	0.4276 −0.562	0.4540 −0.844	0.3717 −0.582
0.3195 −0.705	0.4259 −0.639	0.4294 −0.602	0.4579 −0.814	0.3728 −0.568
	0.4276 −0.667	0.4332 −0.717	0.4589 −0.797	0.3738 −0.564
2438580 +	0.4311 −0.705	0.4349 −0.762	0.4603 −0.791	0.3759 −0.572
0.3627 +0.000	0.4322 −0.717	0.4391 −0.821	0.4631 −0.766	0.3769 −0.557
0.3641 −0.025	0.4363 −0.753	0.4412 −0.870	0.4645 −0.760	0.3780 −0.565
0.3658 −0.049	0.4381 −0.772	0.4450 −0.922	0.4655 −0.760	0.3801 −0.554
0.3693 −0.057	0.4416 −0.794	0.4464 −0.946	0.4728 −0.693	0.3811 −0.566
0.3714 −0.129	0.4433 −0.810	0.4568 −1.023		0.3821 −0.550
0.3735 −0.170	0.4475 −0.830	0.4589 −1.030	2438643 +	0.3842 −0.556
0.3776 −0.256	0.4488 −0.865	0.4630 −1.043	0.2912 −0.554	0.3853 −0.554
0.3797 −0.299	0.4527 −0.874	0.4651 −1.033	0.2932 −0.570	0.3863 −0.559
0.3818 −0.333	0.4537 −0.876	0.4693 −1.025	0.2950 −0.558	0.3884 −0.575
0.3860 −0.444	0.4579 −0.895	0.4714 −1.008	0.2974 −0.578	0.3894 −0.565
0.3881 −0.471	0.4589 −0.895	0.4752 −0.968	0.2985 −0.596	0.3905 −0.562
0.3901 −0.528	0.4624 −0.850	0.4773 −0.949	0.2995 −0.601	0.3926 −0.561
0.3943 −0.595	0.4641 −0.824	0.4814 −0.936	0.3016 −0.611	0.3936 −0.560
0.3964 −0.635	0.4683 −0.799	0.4832 −0.934	0.3026 −0.608	0.3946 −0.562
0.3985 −0.678	0.4697 −0.781	0.4874 −0.871	0.3037 −0.603	0.3967 −0.569
0.4020 −0.744	0.4732 −0.786	0.4887 −0.878	0.3057 −0.596	0.3978 −0.558
0.4047 −0.771			0.3068 −0.603	0.3988 −0.555
0.4068 −0.807	2438622 +	2438631 +	0.3078 −0.612	
0.4110 −0.854	0.3253 −0.219	0.3641 −0.060	0.3099 −0.605	2438660 +
0.4131 −0.896	0.3274 −0.231	0.3652 −0.053	0.3110 −0.598	0.2769 +0.141
0.4151 −0.915	0.3336 −0.456	0.3668 −0.068	0.3120 −0.603	0.2790 +0.138
0.4193 −0.972	0.3357 −0.528	0.3679 −0.075	0.3141 −0.614	0.2845 +0.117
0.4214 −0.973	0.3399 −0.645	0.3690 −0.074	0.3151 −0.604	0.2866 +0.099
0.4235 −0.975	0.3420 −0.676	0.3777 −0.204	0.3162 −0.599	0.2911 −0.001
0.4276 −0.978	0.3462 −0.785	0.3790 −0.209	0.3182 −0.606	0.2932 −0.016
0.4297 −0.980	0.3482 −0.825	0.3829 −0.329	0.3193 −0.611	0.2974 −0.118

0.2991 −0.125
0.3036 −0.193
0.3061 −0.261
0.3109 −0.306
0.3126 −0.360
0.3172 −0.454
0.3192 −0.519
0.3238 −0.558
0.3262 −0.628
0.3297 −0.672
0.3314 −0.730
0.3349 −0.805
0.3366 −0.807
0.3401 −0.844
0.3415 −0.849
0.3432 −0.878
0.3467 −0.888
0.3484 −0.907
0.3526 −0.911
0.3543 −0.936
0.3578 −0.960
0.3599 −0.940
0.3640 −0.955
0.3658 −0.933
0.3689 −0.915
0.3703 −0.912
0.3720 −0.885

2439020 +
0.2636 −0.436
0.2646 −0.440
0.2684 −0.485
0.2695 −0.510
0.2733 −0.573
0.2744 −0.576
0.2754 −0.572
0.2782 −0.621
0.2792 −0.631
0.2803 −0.630
0.2830 −0.660
0.2841 −0.666
0.2851 −0.682
0.2879 −0.715
0.2889 −0.712
0.2900 −0.723
0.2928 −0.762
0.2941 −0.767
0.2952 −0.767
0.2983 −0.789
0.2994 −0.782
0.3004 −0.785
0.3032 −0.814
0.3042 −0.797
0.3053 −0.811
0.3080 −0.808
0.3101 −0.781
0.3129 −0.780
0.3139 −0.788
0.3150 −0.788
0.3178 −0.790
0.3188 −0.777
0.3198 −0.775
0.3226 −0.781
0.3237 −0.757
0.3247 −0.767
0.3282 −0.755

2439025 +
0.3226 +0.056
0.3247 +0.014
0.3289 −0.076
0.3310 −0.090
0.3330 −0.123
0.3372 −0.174
0.3386 −0.213
0.3421 −0.293
0.3431 −0.304
0.3448 −0.327
0.3480 −0.364
0.3490 −0.380
0.3501 −0.398
0.3528 −0.465
0.3539 −0.481
0.3549 −0.481
0.3573 −0.495
0.3584 −0.500
0.3594 −0.509
0.3633 −0.528
0.3643 −0.530
0.3657 −0.549
0.3685 −0.575
0.3695 −0.587
0.3709 −0.612
0.3733 −0.602

2439071 +
0.2190 +0.079
0.2322 +0.080
0.2343 +0.079
0.2371 +0.070
0.2454 −0.041
0.2475 −0.087
0.2499 −0.141
0.2558 −0.237
0.2586 −0.285
0.2607 −0.343
0.2662 −0.462
0.2690 −0.499
0.2711 −0.552
0.2753 −0.615
0.2780 −0.655
0.2801 −0.660
0.2850 −0.693
0.2871 −0.724
0.2898 −0.765
0.2954 −0.827
0.2975 −0.855
0.2996 −0.859
0.3037 −0.876
0.3058 −0.889
0.3079 −0.910
0.3121 −0.918
0.3155 −0.940
0.3176 −0.916
0.3218 −0.939
0.3239 −0.914
0.3260 −0.884
0.3301 −0.866
0.3322 −0.848
0.3364 −0.829
0.3385 −0.814
0.3406 −0.803

2439323 +
0.4873 −0.305
0.4901 −0.345
0.4936 −0.388
0.4957 −0.449
0.4978 −0.490
0.5026 −0.557
0.5047 −0.594
0.5068 −0.671
0.5110 −0.752
0.5130 −0.794
0.5147 −0.820
0.5182 −0.868
0.5200 −0.874
0.5216 −0.888
0.5251 −0.934
0.5269 −0.945
0.5286 −0.945
0.5318 −0.937
0.5334 −0.942
0.5355 −0.946
0.5397 −0.960
0.5415 −0.971
0.5436 −0.965
0.5466 −0.926
0.5487 −0.879
0.5505 −0.878
0.5547 −0.860
0.5568 −0.855
0.5584 −0.844
0.5619 −0.846
0.5633 −0.840
0.5651 −0.810
0.5693 −0.742
0.5707 −0.724

2439347 +
0.3402 −0.670
0.3412 −0.689
0.3423 −0.705
0.3444 −0.707
0.3454 −0.730
0.3464 −0.753
0.3485 −0.773
0.3496 −0.765
0.3506 −0.770
0.3527 −0.784
0.3537 −0.802
0.3572 −0.841
0.3593 −0.858
0.3614 −0.875
0.3624 −0.898
0.3634 −0.910
0.3655 −0.913
0.3666 −0.911
0.3676 −0.900
0.3697 −0.887
0.3707 −0.900
0.3718 −0.888
0.3739 −0.871
0.3749 −0.876
0.3759 −0.861
0.3780 −0.856
0.3791 −0.871
0.3801 −0.856
0.3822 −0.856
0.3832 −0.866
0.3843 −0.856

2439348 +
0.4402 −0.404
0.4412 −0.419
0.4422 −0.416
0.4450 −0.491
0.4464 −0.482
0.4478 −0.497
0.4513 −0.492
0.4526 −0.505
0.4540 −0.518
0.4638 −0.539
0.4652 −0.561
0.4665 −0.564
0.4707 −0.615
0.4721 −0.617
0.4738 −0.645
0.4770 −0.698
0.4780 −0.714
0.4797 −0.742
0.4836 −0.793
0.4853 −0.804
0.4867 −0.828
0.4902 −0.859
0.4922 −0.862
0.4933 −0.881
0.4964 −0.899
0.4978 −0.900
0.4992 −0.891
0.5037 −0.888
0.5065 −0.870
0.5079 −0.873
0.5089 −0.852
0.5124 −0.851
0.5138 −0.846
0.5152 −0.835
0.5179 −0.842
0.5204 −0.836
0.5231 −0.801
0.5273 −0.784
0.5294 −0.776

2439691 +
0.3741 −0.524
0.3776 −0.559
0.3818 −0.607
0.3824 −0.616
0.3901 −0.713
0.3936 −0.737
0.3977 −0.798
0.3984 −0.797
0.4026 −0.826
0.4061 −0.833
0.4102 −0.892
0.4109 −0.889
0.4151 −0.893
0.4186 −0.919
0.4227 −0.893
0.4234 −0.893
0.4276 −0.885
0.4311 −0.889
0.4352 −0.856
0.4359 −0.853
0.4401 −0.822
0.4436 −0.816
0.4477 −0.792
0.4484 −0.807
0.4526 −0.775
0.4561 −0.745
0.4602 −0.728
0.4609 −0.729
0.4651 −0.723
0.4769 −0.667

2439775 +
0.2507 −0.087
0.2521 −0.112
0.2531 −0.125
0.2559 −0.191
0.2569 −0.195
0.2580 −0.223
0.2611 −0.323
0.2625 −0.361
0.2639 −0.397
0.2670 −0.459
0.2680 −0.461
0.2694 −0.499
0.2733 −0.600
0.2743 −0.604
0.2753 −0.624
0.2774 −0.648
0.2906 −0.833
0.2917 −0.836
0.2927 −0.845
0.2948 −0.871
0.2965 −0.898
0.2983 −0.906
0.3007 −0.936
0.3021 −0.945
0.3035 −0.939
0.3059 −0.967
0.3069 −0.978
0.3080 −0.978
0.3111 −0.971
0.3122 −0.971
0.3149 −0.957
0.3160 −0.963
0.3170 −0.951
0.3194 −0.931

0.3205 −0.928
0.3215 −0.911
0.3240 −0.907
0.3250 −0.909
0.3258 −0.901
0.3285 −0.870
0.3295 −0.857
0.3305 −0.844
0.3333 −0.836
0.3344 −0.816
0.3354 −0.815
0.3375 −0.809
0.3385 −0.806
0.3396 −0.799

2439784 +
0.3227 −0.423
0.3244 −0.486
0.3258 −0.520
0.3290 −0.591
0.3304 −0.604
0.3317 −0.639
0.3356 −0.705
0.3370 −0.693
0.3383 −0.725
0.3415 −0.758
0.3449 −0.791
0.3505 −0.858
0.3526 −0.884
0.3547 −0.871
0.3588 −0.872
0.3609 −0.881
0.3672 −0.889
0.3699 −0.895
0.3720 −0.891
0.3762 −0.889
0.3783 −0.881
0.3804 −0.890

2440013 +
0.3582 −0.647
0.3603 −0.696
0.3624 −0.723
0.3665 −0.829
0.3686 −0.905
0.3707 −0.946
0.3748 −0.992
0.3769 −1.002
0.3790 −1.013
0.3832 −0.986
0.3853 −1.004
0.3873 −0.989
0.3915 −0.984
0.3936 −0.981
0.3957 −0.990
0.3998 −0.963
0.4019 −0.963
0.4040 −0.958
0.4082 −0.949
0.4103 −0.944
0.4124 −0.932
0.4165 −0.886
0.4186 −0.850
0.4207 −0.852

2440014 +
0.4666 −0.360
0.4686 −0.400
0.4707 −0.438
0.4749 −0.515
0.4777 −0.539
0.4798 −0.551
0.4839 −0.611
0.4860 −0.658
0.4881 −0.690
0.4922 −0.759
0.4943 −0.794
0.4964 −0.814
0.5013 −0.880
0.5034 −0.907
0.5054 −0.947
0.5096 −0.993
0.5124 −1.002
0.5145 −1.012
0.5193 −0.999
0.5214 −0.994
0.5235 −0.979
0.5277 −0.967
0.5297 −0.952
0.5318 −0.949
0.5374 −0.937
0.5395 −0.901
0.5416 −0.881
0.5464 −0.828
0.5485 −0.802

2440039 +
0.3725 −0.037
0.3760 −0.107
0.3788 −0.132
0.3822 −0.198
0.3864 −0.345
0.3871 −0.343
0.3913 −0.436
0.3947 −0.545
0.3989 −0.649
0.3996 −0.661
0.4038 −0.677
0.4072 −0.695
0.4114 −0.730
0.4121 −0.737
0.4142 −0.745
0.4184 −0.760
0.4190 −0.761
0.4232 −0.762
0.4267 −0.764
0.4308 −0.768
0.4315 −0.763
0.4357 −0.764
0.4565 −0.749
0.4600 −0.751
0.4642 −0.747
0.4649 −0.736
0.4690 −0.742
0.4725 −0.731

2440404 +
0.4023 +0.025
0.4065 −0.006
0.4085 −0.040
0.4127 −0.148
0.4148 −0.192
0.4190 −0.302
0.4210 −0.331
0.4252 −0.434
0.4273 −0.520
0.4315 −0.598
0.4335 −0.646
0.4377 −0.691
0.4398 −0.719
0.4440 −0.781
0.4460 −0.792
0.4502 −0.800
0.4523 −0.806
0.4565 −0.824
0.4585 −0.829
0.4627 −0.842
0.4648 −0.841
0.4690 −0.845
0.4710 −0.844
0.4752 −0.843
0.4773 −0.832
0.4815 −0.816
0.4835 −0.797
0.4877 −0.783
0.4898 −0.776
0.4933 −0.757
0.4946 −0.747

2440417 +
0.4488 +0.073
0.4509 +0.036
0.4551 +0.013
0.4571 −0.011
0.4613 −0.074
0.4634 −0.101
0.4676 −0.208
0.4696 −0.255
0.4738 −0.351
0.4759 −0.379
0.4801 −0.452
0.4822 −0.491
0.4863 −0.498
0.4884 −0.517
0.4926 −0.517
0.4946 −0.518
0.4988 −0.541
0.5009 −0.552
0.5051 −0.574
0.5071 −0.586
0.5113 −0.660
0.5134 −0.664
0.5176 −0.717
0.5196 −0.731
0.5238 −0.775
0.5259 −0.789
0.5301 −0.799
0.5321 −0.789
0.5363 −0.800
0.5384 −0.806
0.5426 −0.798
0.5446 −0.797
0.5488 −0.791
0.5509 −0.789
0.5551 −0.787
0.5571 −0.784
0.5613 −0.765
0.5634 −0.757

2440471 +
0.3403 −0.810
0.3424 −0.846
0.3466 −0.888
0.3487 −0.912
0.3528 −0.932
0.3549 −0.942
0.3591 −0.973
0.3612 −0.966
0.3653 −0.966
0.3674 −0.964
0.3716 −0.963
0.3737 −0.962
0.3778 −0.942
0.3799 −0.940
0.3841 −0.908
0.3862 −0.889

Table 6: Photoelectric y observations

2448144 +
0.6510 +0.566
0.6538 +0.579
0.6557 +0.572
0.6586 +0.593

2448145 +
0.6497 +0.911
0.6526 +0.897
0.6545 +0.870
0.6573 +0.823

2448168 +
0.6333 +0.874
0.6361 +0.885
0.6380 +0.898
0.6409 +0.898

2448169 +
0.6322 +0.515
0.6350 +0.531
0.6369 +0.535
0.6398 +0.545

2448390 +
0.8953 +0.869
0.8981 +0.879
0.9001 +0.869
0.9029 +0.911
0.9049 +0.909
0.9661 +0.944
0.9690 +0.943
0.9709 +0.952
0.9737 +0.954
0.9757 +0.935

2448391 +
0.8867 +0.638
0.8895 +0.651
0.8915 +0.669
0.8944 +0.664
0.8963 +0.661
0.9498 +0.749
0.9526 +0.744
0.9546 +0.747
0.9574 +0.779
0.9594 +0.742

2448392 +
0.8839 +0.475
0.8867 +0.475
0.8887 +0.464
0.8915 +0.438
0.8935 +0.427
0.9472 +0.474
0.9500 +0.480
0.9520 +0.480
0.9548 +0.508
0.9567 +0.504

2448393 +
0.8802 +1.042
0.8830 +1.050
0.8850 +1.043
0.8878 +1.038
0.8897 +1.048
0.9434 +0.987
0.9462 +0.969
0.9482 +0.964
0.9510 +0.942
0.9530 +0.903

2448394 +
0.8787 +0.923
0.8816 +0.932
0.8835 +0.943
0.8864 +0.948
0.8884 +0.958
0.9422 +0.992
0.9450 +0.989
0.9470 +0.990
0.9498 +0.999
0.9518 +0.987

2448395 +
0.8827 +0.695
0.8856 +0.707
0.8875 +0.703
0.8903 +0.737
0.8923 +0.717
0.8995 +0.741
0.9023 +0.732
0.9043 +0.744
0.9071 +0.747
0.9091 +0.758
0.9162 +0.770
0.9190 +0.761
0.9209 +0.782
0.9238 +0.763
0.9258 +0.803
0.9329 +0.798
0.9357 +0.812
0.9377 +0.811
0.9405 +0.826
0.9425 +0.826
0.9497 +0.836
0.9525 +0.835
0.9545 +0.838
0.9573 +0.852
0.9593 +0.857
0.9664 +0.869
0.9692 +0.867
0.9712 +0.864
0.9740 +0.879
0.9760 +0.896

2448397 +
0.8771 +1.090
0.8799 +1.095
0.8818 +1.071
0.8847 +1.078
0.8867 +1.088
0.8938 +1.104
0.8966 +1.113
0.8986 +1.092
0.9015 +1.086
0.9034 +1.085
0.9106 +1.075
0.9134 +1.075
0.9154 +1.043
0.9182 +1.026
0.9202 +0.999
0.9273 +0.938
0.9301 +0.902
0.9321 +0.886
0.9349 +0.862
0.9369 +0.848
0.9440 +0.761
0.9469 +0.719
0.9489 +0.721
0.9517 +0.693
0.9537 +0.638
0.9608 +0.566
0.9636 +0.542
0.9656 +0.519
0.9684 +0.469
0.9704 +0.455

2448399 +
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0.8667 +0.740
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0.8715 +0.746
0.8734 +0.767
0.8805 +0.781
0.8833 +0.782
0.8853 +0.785
0.8881 +0.793
0.8901 +0.810
0.8972 +0.817
0.9000 +0.828
0.9020 +0.824
0.9048 +0.812
0.9068 +0.825
0.9139 +0.849
0.9167 +0.860
0.9186 +0.864
0.9215 +0.867
0.9234 +0.885
0.9306 +0.887
0.9334 +0.892
0.9354 +0.889
0.9382 +0.906
0.9401 +0.911
0.9472 +0.909
0.9501 +0.928
0.9521 +0.937
0.9549 +0.944
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0.9640 +0.941
0.9668 +0.952
0.9687 +0.964
0.9715 +0.966
0.9735 +0.961

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0.8658 +0.325
0.8678 +0.343
0.8706 +0.361
0.8725 +0.379
0.9250 +0.562
0.9279 +0.572
0.9298 +0.557
0.9327 +0.591
0.9347 +0.584

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0.8661 +1.087
0.8681 +1.123
0.8709 +1.118
0.8729 +1.126
0.9250 +0.518
0.9278 +0.495
0.9298 +0.461
0.9327 +0.399
0.9346 +0.351

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0.8668 +1.055
0.8688 +1.063
0.8716 +1.085
0.8736 +1.068
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0.9211 +1.060
0.9230 +1.066
0.9259 +1.047
0.9278 +1.044

2448403 +
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0.8568 +0.840
0.8588 +0.832
0.8616 +0.838
0.8636 +0.821
0.9163 +0.951
0.9192 +0.985
0.9211 +0.965
0.9240 +0.968
0.9260 +0.992

2448404 +
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0.8603 +0.447
0.8622 +0.451
0.8650 +0.483
0.8670 +0.503
0.9216 +0.635
0.9244 +0.667
0.9264 +0.674
0.9292 +0.666
0.9312 +0.656

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0.8561 +1.013
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0.9226 +0.153
0.9246 +0.140

2448406 +
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0.9190 +1.058

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0.9125 +1.016
0.9145 +1.018
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0.9193 +1.021

2448408 +
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0.8463 +0.543
0.8492 +0.551
0.8511 +0.548
0.9060 +0.715
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0.9108 +0.713
0.9137 +0.732
0.9156 +0.734

2448424 +
0.8796 +0.896

Table 6.

0.8825 +0.877
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0.8892 +0.874

2448427 +
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0.8920 +1.047
0.8940 +1.020
0.8968 +1.029

2448428 +
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0.8838 +0.920

2448429 +
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0.8755 +0.696
0.8775 +0.694

2448430 +
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2448435 +
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0.8548 +1.079
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0.8596 +1.076

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0.6340 +0.714
0.6360 +0.726

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0.6360 +0.275
0.6379 +0.287
0.6407 +0.308
0.6427 +0.301

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0.6421 +1.008

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0.6481 +0.793

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0.9740 +0.764

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0.9311 +1.005
0.9336 +1.018
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0.9631 +1.045
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0.9838 +1.030

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2449132 +
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0.8792 +1.064
0.8817 +1.061
0.8834 +1.063
0.8859 +1.011
0.8876 +1.037
0.8938 +0.965
0.8964 +0.958
0.8981 +0.921
0.9006 +0.885
0.9023 +0.875
0.9085 +0.840
0.9110 +0.787
0.9128 +0.742
0.9153 +0.698
0.9170 +0.687
0.9232 +0.545
0.9257 +0.477
0.9274 +0.450
0.9300 +0.372
0.9317 +0.327
0.9379 +0.241
0.9404 +0.206
0.9421 +0.185
0.9446 +0.151
0.9464 +0.136
0.9526 +0.097
0.9551 +0.102
0.9568 +0.097
0.9593 +0.123
0.9610 +0.123

2449144 +
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0.7864 +0.920
0.7881 +0.971
0.7906 +0.945

0.7924 +0.982
0.8009 +0.929
0.8034 +0.982
0.8051 +0.948
0.8076 +0.968
0.8093 +0.959
0.8178 +0.976
0.8203 +0.979
0.8220 +0.971
0.8245 +0.968
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0.8370 +1.038
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0.8510 +1.027
0.8527 +1.016
0.8552 +1.015
0.8569 +1.031
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0.8667 +1.036
0.8684 +1.050
0.8709 +1.041
0.8726 +1.030
0.8788 +1.025
0.8814 +1.049
0.8831 +1.051
0.8856 +1.037
0.8873 +1.028
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0.8961 +1.058
0.8978 +1.078
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0.9167 +1.028
0.9230 +1.057
0.9255 +1.051
0.9272 +1.054
0.9297 +1.045
0.9314 +1.010
0.9377 +1.033
0.9402 +1.048
0.9419 +1.016
0.9444 +1.017
0.9462 +1.032
0.9524 +1.021
0.9549 +1.020
0.9566 +1.024
0.9591 +1.013
0.9609 +1.047

2449145 +
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0.7869 +0.622

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0.8675 +0.845
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0.8735 +0.827
0.8798 +0.856
0.8823 +0.871
0.8840 +0.862
0.8865 +0.861
0.8882 +0.889
0.8945 +0.900
0.8970 +0.901
0.8987 +0.891
0.9013 +0.925
0.9030 +0.915
0.9092 +0.936
0.9117 +0.941
0.9135 +0.946
0.9160 +1.022
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0.9619 +1.016

2449148 +
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0.9666 +1.020
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0.9700 +1.046
0.9725 +1.025
0.9733 +1.026
0.9758 +1.042
0.9767 +1.030

2449152 +
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0.9384 +0.994
0.9392 +0.972
0.9417 +0.976
0.9425 +0.995
0.9451 +0.973
0.9459 +0.968
0.9484 +0.938
0.9492 +0.941
0.9546 +0.860
0.9571 +0.852
0.9580 +0.852
0.9605 +0.806
0.9613 +0.787
0.9639 +0.752
0.9647 +0.741
0.9672 +0.712
0.9680 +0.666
0.9706 +0.642
0.9714 +0.642

2449154 +
0.9503 +0.878
0.9528 +0.893
0.9536 +0.882
0.9561 +0.895
0.9569 +0.910
0.9595 +0.907
0.9603 +0.924
0.9628 +0.910
0.9636 +0.904
0.9662 +0.889
0.9670 +0.923

2449155 +
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0.9560 +0.642
0.9569 +0.652
0.9594 +0.653
0.9602 +0.642
0.9627 +0.651
0.9635 +0.661
0.9661 +0.665
0.9669 +0.669

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0.9511 +0.403
0.9536 +0.389
0.9544 +0.380
0.9570 +0.345
0.9578 +0.332
0.9603 +0.324
0.9611 +0.331
0.9637 +0.318
0.9645 +0.311

2449158 +
0.9554 +0.901
0.9579 +0.950
0.9587 +0.964
0.9613 +0.942
0.9621 +0.939
0.9646 +0.945
0.9654 +0.943

0.9679 +0.941
0.9688 +0.913
0.9713 +0.922
0.9721 +0.925

2449159 +
0.9464 +0.689
0.9489 +0.709
0.9497 +0.711
0.9523 +0.727
0.9531 +0.727
0.9556 +0.735
0.9564 +0.738
0.9590 +0.740
0.9598 +0.766
0.9623 +0.763
0.9631 +0.746

2449160 +
0.9462 +0.386
0.9488 +0.382

0.9496 +0.387
0.9521 +0.396
0.9529 +0.395
0.9555 +0.391
0.9563 +0.392
0.9588 +0.402
0.9596 +0.424
0.9622 +0.416
0.9630 +0.440

2449161 +
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0.9533 +1.003
0.9541 +0.998
0.9566 +0.992
0.9575 +0.998
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0.9608 +1.006
0.9633 +1.006

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0.9475 +1.061
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0.9517 +1.048

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0.9076 +0.859
0.9102 +0.867
0.9110 +0.844

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0.9143 +0.867
0.9169 +0.870
0.9177 +0.881
0.9202 +0.872
0.9210 +0.873
0.9272 +0.866
0.9297 +0.884
0.9305 +0.861
0.9330 +0.868
0.9339 +0.884
0.9364 +0.897
0.9372 +0.875
0.9397 +0.865
0.9406 +0.863
0.9431 +0.889
0.9439 +0.895

Table 7: Photoelectric b observations

2448144 +
0.6508 +0.765
0.6537 +0.778
0.6556 +0.784
0.6585 +0.794

2448145 +
0.6496 +1.180
0.6524 +1.155
0.6544 +1.115
0.6572 +1.068

2448168 +
0.6331 +1.155
0.6359 +1.178
0.6379 +1.186
0.6407 +1.186

2448169 +
0.6320 +0.711
0.6349 +0.732
0.6368 +0.733
0.6396 +0.751

2448390 +
0.8952 +1.151
0.8980 +1.166
0.8999 +1.168
0.9028 +1.183
0.9047 +1.164
0.9660 +1.223
0.9688 +1.227
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0.9736 +1.242
0.9755 +1.249

2448391 +
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0.8894 +0.892
0.8914 +0.889
0.8942 +0.911
0.8962 +0.909
0.9496 +1.013
0.9525 +1.012
0.9544 +1.032
0.9573 +1.025
0.9593 +1.022

2448392 +
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0.8866 +0.654
0.8886 +0.626
0.8914 +0.617
0.8934 +0.608
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0.9546 +0.698
0.9566 +0.691

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0.9509 +1.193
0.9529 +1.189

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0.8862 +1.238

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0.9420 +1.286
0.9449 +1.304
0.9468 +1.279
0.9497 +1.299
0.9517 +1.294

2448395 +
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0.9070 +1.006
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0.9571 +1.125
0.9591 +1.132
0.9662 +1.147
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0.9739 +1.177
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0.9683 +0.669
0.9702 +0.635

2448399 +
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0.8713 +1.012

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0.8899 +1.059
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2448401 +
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0.9210 +1.297
0.9238 +1.286
0.9258 +1.280

2448404 +
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0.8668 +0.680
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0.9262 +0.869
0.9290 +0.888
0.9310 +0.909

2448405 +
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0.9244 +0.264

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0.9191 +1.330

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0.9812 +0.733

2449114 +
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2449115 +
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0.9399 +1.304
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0.9441 +1.267
0.9504 +1.280
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0.9736 +1.281

2449116 +
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0.8630 +0.921
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0.8822 +0.970
0.8839 +0.993
0.9186 +1.057
0.9211 +1.066
0.9228 +1.051
0.9253 +1.052
0.9270 +1.078
0.9333 +1.088
0.9358 +1.108
0.9375 +1.106
0.9401 +1.099
0.9418 +1.101
0.9481 +1.125
0.9506 +1.129
0.9523 +1.131
0.9549 +1.154
0.9566 +1.140
0.9628 +1.172
0.9654 +1.171
0.9671 +1.161
0.9696 +1.148
0.9713 +1.160

2449117 +
0.8552 +0.438
0.8577 +0.430
0.8594 +0.447
0.8620 +0.432
0.8637 +0.421
0.8718 +0.443
0.8743 +0.468
0.8760 +0.466
0.8786 +0.479
0.8803 +0.498
0.9145 +0.653
0.9170 +0.669
0.9187 +0.685
0.9213 +0.688
0.9230 +0.689
0.9292 +0.728
0.9318 +0.732
0.9335 +0.744
0.9360 +0.778
0.9377 +0.741
0.9440 +0.784
0.9465 +0.781
0.9482 +0.795
0.9507 +0.798
0.9524 +0.795
0.9587 +0.829
0.9612 +0.845
0.9629 +0.839
0.9654 +0.843
0.9672 +0.867
0.9734 +0.874
0.9759 +0.878
0.9777 +0.901
0.9802 +0.909
0.9819 +0.906

2449118 +
0.8525 +1.221
0.8550 +1.246
0.8567 +1.232
0.8593 +1.220
0.8610 +1.223
0.8683 +1.256
0.8708 +1.268
0.8725 +1.251
0.8750 +1.274
0.8767 +1.260
0.9028 +1.301
0.9053 +1.319
0.9070 +1.307
0.9095 +1.322
0.9113 +1.297
0.9175 +1.286
0.9200 +1.296
0.9218 +1.294
0.9243 +1.264
0.9260 +1.245
0.9323 +1.227
0.9348 +1.208
0.9365 +1.178
0.9390 +1.134
0.9407 +1.138
0.9470 +1.019
0.9495 +0.967
0.9512 +0.926
0.9538 +0.880
0.9555 +0.840
0.9617 +0.733
0.9643 +0.686
0.9660 +0.685
0.9685 +0.658
0.9702 +0.625

2449132 +
0.8205 +1.017
0.8230 +1.044
0.8247 +1.052
0.8272 +1.071
0.8289 +1.047
0.8362 +1.079
0.8387 +1.089
0.8404 +1.062
0.8429 +1.101
0.8446 +1.084
0.8531 +1.090
0.8556 +1.117
0.8572 +1.104
0.8597 +1.108
0.8614 +1.123
0.8677 +1.143
0.8702 +1.156
0.8719 +1.162
0.8744 +1.148
0.8761 +1.145
0.8823 +1.166
0.8848 +1.160
0.8865 +1.187
0.8890 +1.183
0.8907 +1.157
0.8969 +1.208
0.8995 +1.199
0.9011 +1.185
0.9036 +1.208
0.9053 +1.202
0.9116 +1.218
0.9141 +1.218
0.9158 +1.241
0.9183 +1.251
0.9200 +1.249
0.9262 +1.224
0.9287 +1.218
0.9304 +1.242
0.9329 +1.249
0.9346 +1.262
0.9409 +1.247
0.9434 +1.277
0.9451 +1.255
0.9476 +1.255
0.9493 +1.258
0.9555 +1.267
0.9580 +1.255
0.9597 +1.247
0.9622 +1.253
0.9639 +1.281

2449133 +
0.9248 +1.007
0.9273 +0.997
0.9290 +0.990
0.9315 +1.009
0.9332 +1.033
0.9394 +1.016
0.9420 +1.039
0.9437 +1.027
0.9462 +1.030
0.9479 +1.042
0.9541 +1.060
0.9567 +1.066
0.9584 +1.059
0.9609 +1.076
0.9626 +1.068
0.9688 +1.094
0.9713 +1.073
0.9731 +1.093
0.9756 +1.101
0.9773 +1.116

2449135 +
0.8928 +1.332
0.8954 +1.332
0.8970 +1.365
0.8995 +1.364
0.9012 +1.388
0.9075 +1.341
0.9100 +1.388
0.9117 +1.393
0.9142 +1.384
0.9159 +1.401
0.9221 +1.377
0.9246 +1.398
0.9263 +1.377
0.9288 +1.370
0.9305 +1.359
0.9367 +1.339
0.9392 +1.319
0.9409 +1.344
0.9435 +1.292
0.9452 +1.291
0.9514 +1.261
0.9539 +1.220
0.9556 +1.182
0.9581 +1.165
0.9598 +1.157
0.9660 +1.069
0.9685 +1.047
0.9702 +1.027
0.9727 +1.011
0.9744 +0.998

2449136 +
0.8873 +1.269
0.8898 +1.245
0.8915 +1.264
0.8940 +1.287
0.8957 +1.273
0.9019 +1.281
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0.9062 +1.279
0.9087 +1.278
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0.9166 +1.294
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0.9208 +1.283
0.9233 +1.292
0.9250 +1.299
0.9313 +1.290
0.9338 +1.319
0.9355 +1.299
0.9380 +1.292
0.9397 +1.296
0.9459 +1.325
0.9484 +1.314
0.9501 +1.325
0.9526 +1.332
0.9543 +1.320
0.9605 +1.326
0.9630 +1.329
0.9647 +1.319
0.9672 +1.306
0.9689 +1.338

2449137 +
0.8099 +0.693
0.8124 +0.737
0.8141 +0.730
0.8167 +0.734
0.8184 +0.760
0.8256 +0.770
0.8281 +0.806
0.8298 +0.803
0.8323 +0.800
0.8340 +0.822
0.8422 +0.846
0.8447 +0.844
0.8464 +0.849
0.8489 +0.862
0.8506 +0.882
0.8568 +0.867
0.8593 +0.896
0.8610 +0.896
0.8635 +0.903

0.8652 +0.899	0.8704 +0.361	0.8787 +1.340	0.8668 +1.397	0.8666 +1.362
0.8715 +0.928	0.8767 +0.382	0.8804 +1.359	0.8686 +1.392	0.8683 +1.366
0.8740 +0.935	0.8792 +0.383	0.8829 +1.347	0.8711 +1.391	0.8708 +1.374
0.8757 +0.941	0.8809 +0.389	0.8846 +1.358	0.8728 +1.400	0.8725 +1.357
0.8782 +0.927	0.8834 +0.398	0.8908 +1.417	0.8790 +1.377	0.8787 +1.354
0.8799 +0.949	0.8851 +0.389	0.8934 +1.407	0.8815 +1.356	0.8813 +1.369
0.8861 +0.963	0.8913 +0.433	0.8950 +1.376	0.8832 +1.365	0.8830 +1.373
0.8886 +0.975	0.8938 +0.457	0.8976 +1.366	0.8858 +1.353	0.8855 +1.355
0.8903 +0.982	0.8955 +0.456	0.8993 +1.372	0.8875 +1.315	0.8872 +1.375
0.8928 +0.990	0.8980 +0.465	0.9055 +1.379	0.8937 +1.251	0.8935 +1.392
0.8945 +0.995	0.8997 +0.482	0.9080 +1.382	0.8962 +1.261	0.8960 +1.360
0.9008 +1.003	0.9060 +0.512	0.9097 +1.372	0.8979 +1.186	0.8977 +1.378
0.9033 +1.025	0.9085 +0.513	0.9123 +1.344	0.9004 +1.171	0.9002 +1.407
0.9050 +1.010	0.9102 +0.524	0.9140 +1.343	0.9022 +1.192	0.9019 +1.398
0.9075 +1.039	0.9127 +0.547	0.9202 +1.308	0.9084 +1.072	0.9082 +1.384
0.9092 +1.044	0.9144 +0.550	0.9227 +1.287	0.9109 +1.031	0.9107 +1.399
0.9154 +1.041	0.9206 +0.581	0.9244 +1.260	0.9126 +1.011	0.9124 +1.351
0.9179 +1.057	0.9231 +0.580	0.9269 +1.230	0.9151 +0.956	0.9149 +1.387
0.9196 +1.066	0.9248 +0.596	0.9286 +1.215	0.9169 +0.906	0.9166 +1.359
0.9221 +1.066	0.9273 +0.610	0.9349 +1.127	0.9231 +0.754	0.9229 +1.333
0.9238 +1.074	0.9290 +0.619	0.9374 +1.113	0.9256 +0.692	0.9254 +1.354
0.9301 +1.084	0.9353 +0.676	0.9391 +1.080	0.9273 +0.643	0.9271 +1.383
0.9326 +1.094	0.9378 +0.671	0.9416 +1.044	0.9298 +0.578	0.9296 +1.335
0.9343 +1.103	0.9395 +0.672	0.9433 +1.023	0.9315 +0.527	0.9313 +1.353
0.9368 +1.093	0.9420 +0.692	0.9495 +0.931	0.9378 +0.374	0.9376 +1.340
0.9385 +1.092	0.9436 +0.706	0.9520 +0.901	0.9403 +0.338	0.9401 +1.345
0.9447 +1.120	0.9499 +0.699	0.9538 +0.866	0.9420 +0.311	0.9418 +1.327
0.9472 +1.129	0.9524 +0.723	0.9563 +0.823	0.9445 +0.287	0.9443 +1.337
0.9489 +1.157	0.9541 +0.724	0.9580 +0.815	0.9462 +0.261	0.9460 +1.325
0.9514 +1.140	0.9566 +0.755	0.9642 +0.728	0.9524 +0.227	0.9523 +1.321
0.9531 +1.122	0.9583 +0.752	0.9668 +0.700	0.9550 +0.219	0.9548 +1.341
0.9593 +1.149	0.9646 +0.784	0.9685 +0.672	0.9567 +0.223	0.9565 +1.340
0.9619 +1.186	0.9671 +0.792	0.9710 +0.636	0.9592 +0.220	0.9590 +1.364
0.9636 +1.190	0.9688 +0.796	0.9727 +0.606	0.9609 +0.217	0.9607 +1.336
0.9661 +1.192				
0.9678 +1.184	2449139 +	2449143 +	2449144 +	2449145 +
	0.7977 +1.367	0.7857 +1.366	0.7838 +1.241	0.7800 +0.849
2449138 +	0.8003 +1.351	0.7882 +1.342	0.7863 +1.272	0.7826 +0.862
0.7999 +1.124	0.8020 +1.369	0.7899 +1.368	0.7880 +1.247	0.7843 +0.853
0.8024 +1.095	0.8045 +1.373	0.7924 +1.373	0.7905 +1.264	0.7868 +0.871
0.8042 +1.097	0.8062 +1.370	0.7941 +1.343	0.7922 +1.261	0.7885 +0.874
0.8067 +1.069	0.8151 +1.363	0.8031 +1.335	0.8007 +1.272	0.8649 +1.127
0.8084 +1.065	0.8176 +1.331	0.8056 +1.355	0.8033 +1.265	0.8674 +1.138
0.8161 +0.950	0.8194 +1.357	0.8073 +1.363	0.8050 +1.271	0.8691 +1.137
0.8186 +0.909	0.8219 +1.317	0.8098 +1.356	0.8075 +1.278	0.8716 +1.132
0.8203 +0.894	0.8236 +1.307	0.8115 +1.328	0.8092 +1.286	0.8734 +1.144
0.8228 +0.875	0.8321 +1.300	0.8200 +1.344	0.8177 +1.310	0.8796 +1.158
0.8245 +0.840	0.8346 +1.318	0.8225 +1.335	0.8202 +1.315	0.8821 +1.155
0.8326 +0.715	0.8363 +1.315	0.8242 +1.345	0.8219 +1.316	0.8839 +1.179
0.8352 +0.685	0.8388 +1.301	0.8267 +1.350	0.8244 +1.299	0.8864 +1.178
0.8368 +0.663	0.8405 +1.316	0.8284 +1.332	0.8261 +1.301	0.8881 +1.162
0.8394 +0.621	0.8468 +1.288	0.8347 +1.350	0.8326 +1.331	0.8943 +1.195
0.8411 +0.636	0.8493 +1.307	0.8373 +1.365	0.8351 +1.329	0.8969 +1.192
0.8473 +0.531	0.8510 +1.320	0.8390 +1.358	0.8368 +1.325	0.8986 +1.212
0.8498 +0.505	0.8535 +1.301	0.8415 +1.344	0.8394 +1.346	0.9011 +1.233
0.8515 +0.506	0.8552 +1.323	0.8432 +1.349	0.8411 +1.332	0.9028 +1.204
0.8540 +0.461	0.8615 +1.309	0.8496 +1.365	0.8483 +1.335	0.9091 +1.239
0.8558 +0.458	0.8640 +1.326	0.8522 +1.340	0.8508 +1.338	0.9116 +1.243
0.8620 +0.402	0.8657 +1.337	0.8539 +1.399	0.8525 +1.361	0.9133 +1.227
0.8645 +0.383	0.8682 +1.335	0.8564 +1.370	0.8551 +1.326	0.9159 +1.304
0.8662 +0.372	0.8699 +1.349	0.8581 +1.409	0.8568 +1.308	0.9176 +1.228
0.8687 +0.373	0.8762 +1.343	0.8643 +1.392	0.8640 +1.352	0.9238 +1.273

0.9264 +1.278
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0.9306 +1.280
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0.9428 +1.308
0.9453 +1.305
0.9470 +1.306
0.9533 +1.337
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0.9618 +1.339

2449148 +
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0.9471 +1.330
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0.9563 +1.319
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2449149 +
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0.9757 +1.357
0.9765 +1.373

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0.9712 +0.858

2449154 +
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0.9568 +1.232

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0.9668 +1.245

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0.9593 +0.873
0.9601 +0.889
0.9626 +0.895
0.9634 +0.892
0.9659 +0.914
0.9667 +0.906

2449156 +
0.9476 +0.605
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0.9535 +0.536
0.9543 +0.506
0.9568 +0.508
0.9577 +0.483
0.9602 +0.502
0.9610 +0.480
0.9635 +0.473
0.9644 +0.453

2449158 +
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0.9586 +1.261
0.9611 +1.240
0.9619 +1.253
0.9645 +1.255
0.9653 +1.234

0.9678 +1.235
0.9686 +1.252
0.9712 +1.222
0.9720 +1.232

2449159 +
0.9463 +0.965
0.9488 +0.965
0.9496 +0.986
0.9521 +0.993
0.9530 +0.991
0.9555 +1.014
0.9563 +1.001
0.9588 +0.988
0.9596 +1.011
0.9622 +1.018
0.9630 +1.038

2449160 +
0.9461 +0.543
0.9487 +0.561
0.9495 +0.564
0.9520 +0.562
0.9528 +0.562
0.9553 +0.554
0.9562 +0.553
0.9587 +0.560
0.9595 +0.574
0.9620 +0.575
0.9629 +0.587

2449161 +
0.9473 +1.281
0.9498 +1.288
0.9506 +1.291
0.9532 +1.316
0.9540 +1.322
0.9565 +1.297
0.9573 +1.324
0.9599 +1.309
0.9607 +1.295

0.9632 +1.330
0.9640 +1.319

2449165 +
0.9349 +1.331
0.9374 +1.357
0.9382 +1.372
0.9407 +1.350
0.9415 +1.349
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0.9449 +1.365
0.9474 +1.358
0.9482 +1.363
0.9507 +1.326
0.9516 +1.337

2449166 +
0.9042 +1.152
0.9067 +1.171
0.9075 +1.166
0.9101 +1.188
0.9109 +1.155
0.9134 +1.153
0.9142 +1.162
0.9167 +1.165
0.9176 +1.192
0.9201 +1.183
0.9209 +1.185
0.9270 +1.176
0.9296 +1.192
0.9304 +1.171
0.9329 +1.162
0.9337 +1.184
0.9363 +1.175
0.9371 +1.213
0.9396 +1.178
0.9404 +1.160
0.9429 +1.177
0.9438 +1.197

Table 8: Photoelectric v observations

2448144 +
0.6507 +0.900
0.6535 +0.923
0.6555 +0.929
0.6583 +0.952

2448145 +
0.6494 +1.400
0.6523 +1.358
0.6542 +1.327
0.6571 +1.269

2448168 +
0.6330 +1.409
0.6358 +1.421
0.6377 +1.419
0.6406 +1.434

2448169 +
0.6319 +0.852
0.6347 +0.877
0.6367 +0.889
0.6395 +0.902

2448390 +
0.8950 +1.408
0.8979 +1.426
0.8998 +1.423
0.9026 +1.418
0.9046 +1.427
0.9658 +1.494
0.9687 +1.499
0.9706 +1.482
0.9734 +1.477
0.9754 +1.495

2448391 +
0.8864 +1.061
0.8892 +1.095
0.8912 +1.100
0.8941 +1.110
0.8960 +1.114
0.9495 +1.214
0.9523 +1.227
0.9543 +1.257
0.9571 +1.240
0.9591 +1.253

2448392 +
0.8836 +0.818
0.8864 +0.782
0.8884 +0.759
0.8913 +0.734
0.8932 +0.739

0.9469 +0.812
0.9497 +0.801
0.9517 +0.825
0.9545 +0.847
0.9564 +0.834

2448393 +
0.8799 +1.579
0.8827 +1.584
0.8847 +1.576
0.8875 +1.591
0.8895 +1.596
0.9431 +1.513
0.9459 +1.498
0.9479 +1.474
0.9508 +1.426
0.9527 +1.434

2448394 +
0.8784 +1.495
0.8813 +1.484
0.8832 +1.496
0.8861 +1.475
0.8881 +1.512
0.9419 +1.553
0.9447 +1.545
0.9467 +1.568
0.9496 +1.565
0.9515 +1.564

2448395 +
0.8824 +1.148
0.8853 +1.130
0.8872 +1.163
0.8901 +1.178
0.8920 +1.193

Table 8.

0.8992 +1.186
0.9020 +1.207
0.9040 +1.205
0.9068 +1.217
0.9088 +1.218
0.9159 +1.230
0.9187 +1.261
0.9207 +1.273
0.9235 +1.256
0.9255 +1.286
0.9326 +1.285
0.9354 +1.304
0.9374 +1.321
0.9403 +1.317
0.9422 +1.345
0.9494 +1.336
0.9522 +1.352
0.9542 +1.349
0.9570 +1.355
0.9590 +1.367
0.9661 +1.393
0.9690 +1.424
0.9709 +1.438

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0.8873 +1.556
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0.9620 +1.218
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Table 9: Photoelectric u observations

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2448427 +
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Table 9.

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2448435 +
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0.9398 +1.406
0.9416 +1.439
0.9478 +1.472
0.9503 +1.375
0.9520 +1.457
0.9546 +1.410
0.9563 +1.425
0.9625 +1.507
0.9651 +1.530
0.9668 +1.443
0.9694 +1.493
0.9711 +1.399

2449117 +
0.8549 +0.874
0.8574 +0.858
0.8592 +0.857
0.8617 +0.868
0.8634 +0.828
0.8715 +0.919
0.8741 +0.914
0.8757 +0.949
0.8783 +0.946
0.8800 +1.011
0.9142 +1.021
0.9168 +1.118
0.9185 +1.060
0.9210 +1.126
0.9227 +1.067
0.9290 +1.093
0.9315 +1.148
0.9332 +1.171
0.9357 +1.164
0.9374 +1.098
0.9437 +1.201
0.9462 +1.197
0.9479 +1.213
0.9505 +1.201
0.9522 +1.255
0.9584 +1.194
0.9609 +1.212
0.9626 +1.186
0.9652 +1.304
0.9669 +1.250
0.9731 +1.195
0.9757 +1.194
0.9774 +1.262
0.9799 +1.264

Table 9.

0.9816 +1.267

2449118 +
0.8522 +1.483
0.8547 +1.451
0.8565 +1.471
0.8590 +1.431
0.8607 +1.382
0.8680 +1.431
0.8705 +1.567
0.8722 +1.460
0.8748 +1.504
0.8765 +1.536
0.9025 +1.495
0.9051 +1.513
0.9068 +1.534
0.9093 +1.621
0.9110 +1.507
0.9172 +1.533
0.9198 +1.643
0.9215 +1.554
0.9240 +1.480
0.9258 +1.495
0.9320 +1.440
0.9345 +1.440
0.9363 +1.408
0.9388 +1.391
0.9405 +1.333
0.9467 +1.326
0.9493 +1.230
0.9510 +1.189
0.9535 +1.121
0.9552 +1.046
0.9615 +0.966
0.9640 +0.904
0.9657 +0.943
0.9682 +0.957
0.9700 +0.912

2449132 +
0.8202 +1.338
0.8227 +1.301
0.8244 +1.390
0.8270 +1.397
0.8287 +1.377
0.8359 +1.469
0.8384 +1.452
0.8401 +1.409
0.8426 +1.393
0.8443 +1.364
0.8528 +1.515
0.8553 +1.451
0.8570 +1.469
0.8595 +1.433
0.8612 +1.428
0.8674 +1.424
0.8699 +1.469
0.8716 +1.446
0.8741 +1.384
0.8758 +1.413
0.8821 +1.448
0.8846 +1.503

0.8863 +1.528
0.8888 +1.566
0.8905 +1.543
0.8967 +1.547
0.8992 +1.499
0.9009 +1.499
0.9034 +1.521
0.9051 +1.506
0.9113 +1.517
0.9138 +1.540
0.9155 +1.476
0.9180 +1.444
0.9197 +1.498
0.9259 +1.495
0.9284 +1.548
0.9301 +1.466
0.9327 +1.577
0.9344 +1.570
0.9406 +1.576
0.9431 +1.479
0.9448 +1.535
0.9473 +1.530
0.9490 +1.520
0.9552 +1.581
0.9577 +1.554
0.9594 +1.505
0.9619 +1.492
0.9636 +1.528

2449133 +
0.9245 +1.319
0.9270 +1.316
0.9287 +1.324
0.9312 +1.363
0.9330 +1.327
0.9392 +1.328
0.9417 +1.367
0.9434 +1.352
0.9459 +1.407
0.9476 +1.384
0.9539 +1.417
0.9564 +1.366
0.9581 +1.414
0.9606 +1.434
0.9623 +1.308
0.9686 +1.383
0.9711 +1.364
0.9728 +1.314

2449135 +
0.8926 +1.705
0.8951 +1.700
0.8968 +1.596
0.8993 +1.585
0.9010 +1.588
0.9072 +1.633
0.9097 +1.643
0.9114 +1.709
0.9139 +1.591
0.9156 +1.606
0.9218 +1.735
0.9243 +1.696

0.9260 +1.666
0.9285 +1.529
0.9302 +1.601
0.9365 +1.558
0.9390 +1.589
0.9407 +1.546
0.9432 +1.528
0.9449 +1.467
0.9511 +1.455
0.9536 +1.431
0.9553 +1.449
0.9578 +1.403
0.9595 +1.392
0.9657 +1.263
0.9682 +1.198
0.9699 +1.271
0.9724 +1.185
0.9741 +1.252

2449136 +
0.8870 +1.549
0.8896 +1.467
0.8912 +1.548
0.8937 +1.501
0.8954 +1.588
0.9017 +1.544
0.9042 +1.582
0.9059 +1.551
0.9084 +1.568
0.9101 +1.575
0.9163 +1.536
0.9188 +1.639
0.9205 +1.551
0.9230 +1.606
0.9248 +1.547
0.9310 +1.576
0.9335 +1.578
0.9352 +1.533
0.9377 +1.494
0.9394 +1.537
0.9456 +1.618
0.9481 +1.547
0.9498 +1.570
0.9524 +1.571
0.9540 +1.636
0.9602 +1.586
0.9628 +1.504
0.9645 +1.575
0.9670 +1.671
0.9687 +1.570

2449137 +
0.8096 +1.082
0.8122 +1.064
0.8139 +1.130
0.8164 +1.101
0.8181 +1.177
0.8254 +1.215
0.8279 +1.145
0.8296 +1.228
0.8321 +1.153
0.8338 +1.210

0.8419 +1.230
0.8444 +1.200
0.8461 +1.184
0.8486 +1.244
0.8503 +1.216
0.8566 +1.276
0.8591 +1.270
0.8608 +1.203
0.8633 +1.279
0.8650 +1.235
0.8712 +1.283
0.8737 +1.322
0.8754 +1.237
0.8779 +1.245
0.8796 +1.255
0.8859 +1.258
0.8884 +1.319
0.8901 +1.306
0.8926 +1.286
0.8943 +1.301
0.9005 +1.380
0.9030 +1.334
0.9047 +1.352
0.9072 +1.452
0.9089 +1.427
0.9151 +1.413
0.9177 +1.400
0.9194 +1.450
0.9219 +1.378
0.9236 +1.359
0.9298 +1.472
0.9323 +1.409
0.9340 +1.439
0.9365 +1.378
0.9382 +1.407
0.9445 +1.352
0.9470 +1.501
0.9487 +1.451
0.9512 +1.491
0.9529 +1.397
0.9591 +1.481
0.9616 +1.442
0.9633 +1.406
0.9659 +1.464
0.9675 +1.471

2449138 +
0.8159 +1.165
0.8184 +1.121
0.8201 +1.127
0.8226 +1.158
0.8243 +1.084
0.8324 +0.995
0.8349 +0.974
0.8366 +0.970
0.8391 +0.954
0.8408 +0.942
0.8470 +0.895
0.8496 +0.868
0.8513 +0.862
0.8538 +0.857
0.8555 +0.843

0.8617 +0.763
0.8642 +0.786
0.8659 +0.783
0.8685 +0.821
0.8701 +0.802
0.8764 +0.823
0.8789 +0.825
0.8806 +0.858
0.8831 +0.849
0.8848 +0.812
0.8911 +0.835
0.8936 +0.889
0.8953 +0.882
0.8978 +0.897
0.8995 +0.910
0.9057 +0.932
0.9082 +0.997
0.9099 +1.006
0.9124 +1.028
0.9141 +0.961
0.9203 +1.002
0.9229 +0.968
0.9246 +1.039
0.9271 +1.064
0.9287 +1.092
0.9350 +1.051
0.9375 +1.083
0.9392 +1.036
0.9417 +1.076
0.9434 +1.098
0.9496 +1.096
0.9521 +1.096
0.9538 +1.139
0.9564 +1.151
0.9581 +1.147

2449139 +
0.8149 +1.620
0.8174 +1.639
0.8191 +1.653
0.8216 +1.596
0.8233 +1.582
0.8319 +1.563
0.8344 +1.580
0.8361 +1.564
0.8386 +1.582
0.8403 +1.574
0.8465 +1.572
0.8490 +1.580
0.8507 +1.570
0.8533 +1.660
0.8549 +1.572
0.8612 +1.595
0.8637 +1.549
0.8654 +1.593
0.8679 +1.591
0.8696 +1.599
0.8759 +1.619
0.8784 +1.582
0.8801 +1.712
0.8826 +1.607
0.8843 +1.731

0.8906 +1.598
0.8931 +1.710
0.8948 +1.686
0.8973 +1.689
0.8990 +1.710
0.9053 +1.590
0.9078 +1.611
0.9095 +1.657
0.9120 +1.607
0.9137 +1.579
0.9200 +1.511
0.9225 +1.471
0.9242 +1.487
0.9267 +1.455
0.9284 +1.433
0.9346 +1.270
0.9371 +1.245
0.9388 +1.241
0.9413 +1.241
0.9430 +1.222
0.9493 +1.172
0.9518 +1.157
0.9535 +1.087
0.9560 +1.031
0.9577 +1.076
0.9640 +0.966
0.9665 +1.000
0.9682 +1.011

2449143 +
0.8028 +1.673
0.8053 +1.725
0.8070 +1.646
0.8095 +1.634
0.8112 +1.572
0.8197 +1.630
0.8222 +1.602
0.8239 +1.594
0.8265 +1.666
0.8282 +1.627
0.8345 +1.742
0.8370 +1.666
0.8387 +1.646
0.8412 +1.613
0.8429 +1.673
0.8494 +1.648
0.8519 +1.750
0.8536 +1.701
0.8561 +1.607
0.8578 +1.629
0.8641 +1.709
0.8666 +1.629
0.8683 +1.744
0.8708 +1.705
0.8725 +1.644
0.8788 +1.669
0.8813 +1.675
0.8830 +1.579
0.8855 +1.593
0.8872 +1.577
0.8934 +1.418
0.8960 +1.447
0.8977 +1.414
0.9002 +1.451
0.9019 +1.417
0.9081 +1.245
0.9107 +1.248
0.9124 +1.219
0.9149 +1.166
0.9166 +1.128
0.9228 +1.016
0.9253 +0.916
0.9271 +0.892
0.9296 +0.792
0.9313 +0.769
0.9375 +0.715
0.9400 +0.730
0.9417 +0.695
0.9442 +0.669
0.9460 +0.695
0.9522 +0.656
0.9547 +0.653
0.9564 +0.657
0.9589 +0.668
0.9607 +0.678

2449144 +
0.8005 +1.557
0.8030 +1.569
0.8047 +1.640
0.8072 +1.530
0.8089 +1.573
0.8174 +1.555
0.8199 +1.597
0.8216 +1.659
0.8241 +1.614
0.8258 +1.633
0.8324 +1.569
0.8349 +1.677
0.8366 +1.719
0.8391 +1.582
0.8408 +1.647
0.8481 +1.658
0.8506 +1.670
0.8523 +1.697
0.8548 +1.686
0.8565 +1.649
0.8638 +1.598
0.8663 +1.641
0.8680 +1.638
0.8705 +1.555
0.8722 +1.617
0.8785 +1.671
0.8810 +1.618
0.8827 +1.611
0.8852 +1.649
0.8869 +1.693
0.8932 +1.725
0.8957 +1.509
0.8974 +1.612
0.9000 +1.695
0.9017 +1.603
0.9079 +1.656
0.9104 +1.611
0.9121 +1.680
0.9146 +1.647
0.9164 +1.639
0.9226 +1.612
0.9251 +1.564
0.9268 +1.590
0.9294 +1.556
0.9310 +1.622
0.9373 +1.617
0.9398 +1.642
0.9415 +1.605
0.9441 +1.540
0.9458 +1.530
0.9520 +1.539
0.9545 +1.660
0.9562 +1.572
0.9588 +1.599
0.9605 +1.630

2449145 +
0.7798 +1.212
0.7823 +1.263
0.7840 +1.181
0.7865 +1.250
0.7882 +1.310
0.8646 +1.426
0.8671 +1.477
0.8689 +1.423
0.8714 +1.444
0.8731 +1.443
0.8794 +1.495
0.8819 +1.511
0.8836 +1.488
0.8861 +1.527
0.8878 +1.549
0.8941 +1.508
0.8966 +1.464
0.8983 +1.476
0.9009 +1.532
0.9026 +1.516
0.9088 +1.605
0.9114 +1.567
0.9131 +1.607
0.9156 +1.702
0.9173 +1.629
0.9236 +1.558
0.9261 +1.635
0.9278 +1.584
0.9303 +1.580
0.9320 +1.533
0.9383 +1.634
0.9408 +1.602
0.9425 +1.628
0.9451 +1.620
0.9468 +1.582
0.9530 +1.704
0.9556 +1.623
0.9573 +1.650
0.9598 +1.690
0.9615 +1.662

2449148 +
0.9435 +1.579
0.9460 +1.693
0.9469 +1.718
0.9494 +1.657
0.9502 +1.563
0.9527 +1.638
0.9536 +1.585
0.9561 +1.614
0.9569 +1.680
0.9594 +1.640
0.9602 +1.610
0.9656 +1.746
0.9681 +1.591
0.9690 +1.631
0.9715 +1.562
0.9723 +1.715
0.9748 +1.670
0.9757 +1.576
0.9782 +1.604
0.9790 +1.619
0.9815 +1.738
0.9823 +1.711

2449149 +
0.9595 +1.626
0.9620 +1.713
0.9629 +1.650
0.9654 +1.607
0.9662 +1.627
0.9687 +1.688
0.9696 +1.608
0.9721 +1.655
0.9729 +1.728
0.9754 +1.675
0.9763 +1.625

2449152 +
0.9321 +1.594
0.9346 +1.544
0.9354 +1.569
0.9380 +1.564
0.9388 +1.540
0.9413 +1.642
0.9421 +1.495
0.9447 +1.540
0.9455 +1.480
0.9480 +1.319
0.9488 +1.349
0.9542 +1.274
0.9568 +1.340
0.9576 +1.317
0.9601 +1.340
0.9609 +1.197
0.9635 +1.233
0.9643 +1.234
0.9668 +1.201
0.9676 +1.158
0.9701 +1.063
0.9710 +1.035

2449154 +
0.9499 +1.495
0.9524 +1.448
0.9532 +1.474
0.9557 +1.458
0.9565 +1.465
0.9591 +1.484
0.9599 +1.505
0.9624 +1.518
0.9632 +1.654
0.9658 +1.575
0.9666 +1.567

2449155 +
0.9498 +1.230
0.9523 +1.248
0.9531 +1.271
0.9557 +1.281
0.9565 +1.261
0.9590 +1.251
0.9598 +1.295
0.9623 +1.346
0.9632 +1.298
0.9657 +1.270
0.9665 +1.286

2449156 +
0.9474 +0.941
0.9499 +0.937
0.9507 +0.909
0.9532 +0.948
0.9541 +0.865
0.9566 +0.859
0.9574 +0.889
0.9599 +0.845
0.9608 +0.840
0.9633 +0.861
0.9641 +0.881

2449158 +
0.9550 +1.512
0.9575 +1.452
0.9583 +1.653
0.9609 +1.532
0.9617 +1.612
0.9642 +1.537
0.9650 +1.531
0.9676 +1.512
0.9684 +1.491
0.9709 +1.546
0.9717 +1.517

2449159 +
0.9460 +1.394
0.9485 +1.365
0.9493 +1.403
0.9519 +1.424
0.9527 +1.336
0.9552 +1.347
0.9560 +1.247
0.9586 +1.371
0.9594 +1.321
0.9619 +1.316
0.9627 +1.294

2449160 +	2449161 +	2449165 +	2449166 +	0.9293 +1.443
0.9459 +0.965	0.9470 +1.558	0.9346 +1.623	0.9039 +1.467	0.9301 +1.505
0.9484 +0.961	0.9496 +1.558	0.9371 +1.494	0.9064 +1.330	0.9326 +1.576
0.9492 +0.972	0.9504 +1.549	0.9379 +1.571	0.9073 +1.439	0.9335 +1.426
0.9517 +1.000	0.9529 +1.623	0.9405 +1.539	0.9098 +1.571	0.9360 +1.554
0.9526 +0.944	0.9537 +1.636	0.9413 +1.703	0.9106 +1.468	0.9368 +1.597
0.9551 +0.974	0.9563 +1.612	0.9438 +1.488	0.9131 +1.345	0.9393 +1.502
0.9559 +0.976	0.9571 +1.580	0.9446 +1.499	0.9140 +1.408	0.9402 +1.440
0.9584 +1.048	0.9596 +1.544	0.9471 +1.688	0.9165 +1.490	0.9427 +1.487
0.9593 +0.998	0.9604 +1.629	0.9480 +1.599	0.9173 +1.353	0.9435 +1.431
0.9618 +0.980	0.9629 +1.630	0.9505 +1.666	0.9198 +1.366	
0.9626 +0.952	0.9638 +1.567	0.9513 +1.577	0.9206 +1.495	
			0.9268 +1.367	

Table 10: Hβ narrow band observations

2448144 +	0.9576 +0.909	0.8996 +0.881	0.9351 +1.002	0.9669 +1.136
0.6511 +0.675	0.9595 +0.923	0.9024 +0.889	0.9371 +0.996	0.9689 +1.134
0.6540 +0.696		0.9044 +0.899	0.9442 +0.902	0.9717 +1.145
0.6559 +0.693	2448392 +	0.9072 +0.894	0.9470 +0.876	0.9736 +1.155
0.6587 +0.704	0.8840 +0.596	0.9092 +0.900	0.9490 +0.837	
	0.8869 +0.575	0.9163 +0.918	0.9518 +0.804	2448400 +
2448145 +	0.8888 +0.563	0.9192 +0.921	0.9538 +0.774	0.8631 +0.404
0.6499 +1.071	0.8917 +0.547	0.9211 +0.929	0.9609 +0.680	0.8659 +0.432
0.6527 +1.033	0.8937 +0.538	0.9240 +0.934	0.9637 +0.656	0.8679 +0.440
0.6546 +1.004	0.9473 +0.588	0.9259 +0.948	0.9657 +0.625	0.8708 +0.453
0.6575 +0.965	0.9501 +0.590	0.9331 +0.952	0.9685 +0.597	0.8727 +0.468
	0.9521 +0.602	0.9359 +0.967	0.9705 +0.563	0.9252 +0.673
2448168 +	0.9549 +0.608	0.9379 +0.969		0.9280 +0.706
0.6334 +1.040	0.9569 +0.620	0.9407 +0.976	2448399 +	0.9300 +0.708
0.6362 +1.052		0.9427 +0.986	0.8640 +0.890	0.9328 +0.715
0.6382 +1.055	2448393 +	0.9498 +0.997	0.8669 +0.896	0.9348 +0.714
0.6410 +1.063	0.8803 +1.198	0.9526 +1.003	0.8688 +0.901	
	0.8831 +1.207	0.9546 +1.013	0.8716 +0.910	2448401 +
2448169 +	0.8851 +1.214	0.9574 +1.014	0.8735 +0.922	0.8635 +1.271
0.6323 +0.627	0.8879 +1.213	0.9594 +1.013	0.8806 +0.931	0.8663 +1.286
0.6352 +0.637	0.8899 +1.217	0.9665 +1.040	0.8835 +0.938	0.8682 +1.281
0.6371 +0.643	0.9436 +1.158	0.9694 +1.046	0.8854 +0.942	0.8711 +1.281
0.6399 +0.652	0.9464 +1.153	0.9713 +1.046	0.8882 +0.950	0.8730 +1.279
	0.9484 +1.129	0.9742 +1.052	0.8902 +0.959	0.9251 +0.636
2448390 +	0.9512 +1.097	0.9762 +1.064	0.8973 +0.979	0.9280 +0.599
0.8955 +1.049	0.9532 +1.085		0.9002 +0.979	0.9299 +0.556
0.8983 +1.055		2448397 +	0.9021 +0.987	0.9328 +0.498
0.9002 +1.059	2448394 +	0.8772 +1.257	0.9049 +0.997	0.9347 +0.459
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	0.9471 +1.174	0.9016 +1.257	0.9335 +1.075	0.9184 +1.256
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0.8836 +0.342	0.8831 +1.262	0.8714 +1.273	0.8710 +1.252	0.9309 +1.160
0.8853 +0.350	0.8848 +1.263	0.8731 +1.284	0.8727 +1.254	0.9326 +1.156
0.8916 +0.376	0.8911 +1.268	0.8793 +1.258	0.8790 +1.251	0.9388 +1.181
0.8941 +0.385	0.8936 +1.275	0.8818 +1.257	0.8815 +1.277	0.9413 +1.178
0.8958 +0.392	0.8953 +1.278	0.8835 +1.239	0.8832 +1.252	0.9431 +1.190
0.8983 +0.406	0.8978 +1.272	0.8860 +1.228	0.8858 +1.244	0.9456 +1.187
0.9000 +0.418	0.8995 +1.270	0.8878 +1.220	0.8875 +1.240	0.9473 +1.195
0.9062 +0.444	0.9058 +1.267	0.8940 +1.156	0.8937 +1.249	0.9536 +1.203
0.9087 +0.456	0.9083 +1.248	0.8965 +1.134	0.8963 +1.252	0.9561 +1.207
0.9104 +0.470	0.9100 +1.251	0.8982 +1.127	0.8980 +1.282	0.9578 +1.194
0.9129 +0.484	0.9125 +1.240	0.9007 +1.089	0.9005 +1.256	0.9603 +1.213
0.9147 +0.490	0.9142 +1.232	0.9024 +1.063	0.9022 +1.265	0.9621 +1.214
0.9209 +0.517	0.9205 +1.190	0.9087 +0.972	0.9084 +1.256	
0.9234 +0.528	0.9230 +1.171	0.9112 +0.935	0.9110 +1.259	2449148 +
0.9251 +0.545	0.9247 +1.164	0.9129 +0.903	0.9127 +1.251	0.9440 +1.217
0.9276 +0.544	0.9272 +1.134	0.9154 +0.849	0.9152 +1.246	0.9466 +1.214
0.9293 +0.554	0.9289 +1.115	0.9171 +0.811	0.9169 +1.241	0.9474 +1.222
0.9355 +0.584	0.9351 +1.022	0.9233 +0.672	0.9231 +1.231	0.9499 +1.219
0.9380 +0.594	0.9377 +0.989	0.9259 +0.604	0.9256 +1.238	0.9507 +1.233
0.9397 +0.598	0.9394 +0.965	0.9276 +0.559	0.9274 +1.232	0.9533 +1.235
0.9422 +0.609	0.9419 +0.945	0.9301 +0.494	0.9299 +1.226	0.9541 +1.237
0.9439 +0.618	0.9436 +0.927	0.9318 +0.454	0.9316 +1.242	0.9566 +1.233
0.9502 +0.644	0.9498 +0.841	0.9380 +0.332	0.9378 +1.229	0.9574 +1.233
0.9527 +0.652	0.9523 +0.816	0.9406 +0.287	0.9404 +1.233	0.9600 +1.240
0.9544 +0.661	0.9540 +0.794	0.9423 +0.265	0.9421 +1.227	0.9608 +1.235
0.9569 +0.669	0.9566 +0.747	0.9448 +0.239	0.9446 +1.215	0.9662 +1.243
0.9586 +0.671	0.9583 +0.733	0.9465 +0.218	0.9463 +1.207	0.9687 +1.238
0.9648 +0.696	0.9645 +0.645	0.9527 +0.182	0.9525 +1.211	0.9695 +1.247
0.9673 +0.705	0.9670 +0.616	0.9552 +0.186	0.9550 +1.219	0.9720 +1.238
0.9690 +0.715	0.9687 +0.598	0.9570 +0.183	0.9568 +1.211	0.9728 +1.235

0.9754 +1.236
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0.9821 +1.243
0.9829 +1.252

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0.9701 +1.232
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0.9760 +1.241
0.9768 +1.240

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0.9573 +1.007
0.9581 +0.992

0.9606 +0.962
0.9615 +0.941
0.9640 +0.895
0.9648 +0.883
0.9673 +0.835
0.9682 +0.825
0.9707 +0.790
0.9715 +0.776

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0.9537 +1.091
0.9563 +1.095
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0.9562 +0.778
0.9570 +0.778
0.9595 +0.788
0.9603 +0.792
0.9629 +0.801
0.9637 +0.794
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0.9670 +0.816

2449156 +
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0.9512 +0.514
0.9538 +0.488
0.9546 +0.479
0.9571 +0.458
0.9579 +0.452
0.9605 +0.430
0.9613 +0.430
0.9638 +0.407
0.9646 +0.404

2449158 +
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0.9681 +1.132
0.9689 +1.132
0.9714 +1.134
0.9722 +1.138

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0.9499 +0.874
0.9524 +0.882
0.9532 +0.884
0.9557 +0.900
0.9566 +0.900
0.9591 +0.905

0.9599 +0.908
0.9624 +0.909
0.9633 +0.912

2449160 +
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0.9489 +0.493
0.9497 +0.488
0.9523 +0.494
0.9531 +0.495
0.9556 +0.498
0.9564 +0.504
0.9590 +0.513
0.9598 +0.513
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0.9631 +0.525

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0.9635 +1.199
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0.9451 +1.236
0.9477 +1.232
0.9485 +1.233
0.9510 +1.238
0.9518 +1.233

2449166 +
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0.9078 +1.052
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0.9203 +1.061
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0.9399 +1.064
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0.9440 +1.074

Table 11: Hβ wide band observations

2448144 +
0.6512 +0.489
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0.6589 +0.520

2448145 +
0.6500 +0.853
0.6528 +0.813
0.6548 +0.806
0.6576 +0.764

2448168 +
0.6335 +0.791
0.6364 +0.819
0.6383 +0.820
0.6411 +0.825

2448169 +
0.6325 +0.462
0.6353 +0.478
0.6373 +0.472
0.6401 +0.502

2448390 +
0.8956 +0.812
0.8984 +0.806
0.9004 +0.799
0.9032 +0.811
0.9051 +0.830
0.9664 +0.899
0.9692 +0.884
0.9712 +0.876
0.9740 +0.888
0.9760 +0.881

2448391 +
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0.8898 +0.600
0.8918 +0.591
0.8947 +0.602
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0.9501 +0.676
0.9529 +0.691
0.9549 +0.680
0.9577 +0.698

0.9597 +0.684

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0.9551 +0.454
0.9570 +0.454

2448393 +
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0.8900 +0.978
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0.9465 +0.927
0.9485 +0.932

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0.9533 +0.874

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0.9425 +0.932
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0.9521 +0.928

2448395 +
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0.9026 +0.673

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0.9528 +0.778
0.9548 +0.779
0.9576 +0.801
0.9596 +0.790
0.9667 +0.798
0.9695 +0.790
0.9715 +0.815
0.9743 +0.820
0.9763 +0.830

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0.8870 +1.013
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0.8969 +1.046
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0.9037 +1.029
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0.9443 +0.681
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0.9170 +0.786
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0.9337 +0.844
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0.9404 +0.824
0.9475 +0.854
0.9504 +0.867
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0.9552 +0.875
0.9571 +0.889
0.9643 +0.911
0.9671 +0.888
0.9690 +0.886
0.9718 +0.895
0.9738 +0.909

2448400 +
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0.8681 +0.323
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0.9330 +0.508
0.9350 +0.533

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0.9262 +0.983
0.9281 +0.972

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0.8639 +0.782
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0.9263 +0.918

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0.9314 +0.601

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0.9193 +0.966

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0.8578 +0.824
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0.9147 +0.937
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0.9195 +0.950

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0.8514 +0.494
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0.8895 +0.825

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0.8923 +0.980
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0.8971 +0.972

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0.6430 +0.255

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2448533 +
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0.9743 +0.704

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0.9251 +0.970
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0.9781 +0.991
0.9798 +0.985
0.9823 +0.988
0.9840 +0.991

Table 11.

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0.9210 +0.940
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0.9314 +0.957
0.9332 +0.952
0.9357 +0.961
0.9374 +0.947
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0.9479 +0.943
0.9504 +0.940
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0.9823 +0.952

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0.9816 +0.475

2449114 +
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2449115 +
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0.8780 +0.912
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0.9533 +0.917
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0.9575 +0.925
0.9593 +0.912
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0.9680 +0.921
0.9698 +0.920
0.9723 +0.927
0.9740 +0.953

2449116 +
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0.8617 +0.606
0.8634 +0.629
0.8660 +0.640
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0.8758 +0.617
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0.8843 +0.663
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0.9232 +0.736
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0.9274 +0.731
0.9337 +0.746
0.9362 +0.751
0.9380 +0.751
0.9405 +0.754
0.9422 +0.766
0.9485 +0.774
0.9510 +0.778
0.9527 +0.761
0.9552 +0.784
0.9569 +0.791
0.9632 +0.813
0.9657 +0.824
0.9675 +0.826
0.9700 +0.801
0.9717 +0.814

2449117 +
0.8556 +0.293
0.8581 +0.278
0.8598 +0.289
0.8623 +0.284
0.8641 +0.281
0.8722 +0.290
0.8747 +0.307
0.8764 +0.307
0.8789 +0.317
0.8806 +0.306
0.9149 +0.431
0.9174 +0.447
0.9191 +0.447
0.9217 +0.446
0.9234 +0.460
0.9297 +0.478
0.9322 +0.488
0.9339 +0.474
0.9364 +0.482
0.9381 +0.489
0.9444 +0.496
0.9469 +0.521
0.9486 +0.517
0.9511 +0.541
0.9528 +0.538
0.9591 +0.558
0.9616 +0.574
0.9633 +0.566
0.9658 +0.565
0.9676 +0.574
0.9738 +0.578
0.9763 +0.589
0.9781 +0.591
0.9806 +0.581
0.9823 +0.602

2449118 +
0.8529 +0.877
0.8554 +0.892
0.8571 +0.882
0.8597 +0.904
0.8614 +0.917
0.8686 +0.898
0.8712 +0.925
0.8729 +0.923
0.8754 +0.923
0.8771 +0.931
0.9032 +0.945
0.9057 +0.972
0.9074 +0.958
0.9099 +0.961
0.9117 +0.946
0.9179 +0.960
0.9204 +0.934
0.9222 +0.946
0.9247 +0.938
0.9264 +0.916
0.9327 +0.880
0.9352 +0.880
0.9369 +0.853
0.9394 +0.830
0.9411 +0.802
0.9474 +0.725
0.9499 +0.698
0.9516 +0.658
0.9542 +0.623
0.9559 +0.593
0.9621 +0.508
0.9647 +0.484
0.9664 +0.471
0.9689 +0.432
0.9706 +0.418

2449132 +
0.8209 +0.729
0.8234 +0.713
0.8251 +0.728
0.8276 +0.744
0.8293 +0.729
0.8366 +0.725
0.8391 +0.731
0.8408 +0.736
0.8433 +0.756
0.8450 +0.757
0.8535 +0.769
0.8560 +0.779
0.8577 +0.778
0.8602 +0.795
0.8618 +0.803
0.8680 +0.792
0.8706 +0.792
0.8723 +0.793
0.8748 +0.821
0.8765 +0.802
0.8827 +0.815
0.8852 +0.823
0.8869 +0.818
0.8894 +0.837
0.8911 +0.859
0.8974 +0.850
0.8999 +0.858
0.9015 +0.852
0.9040 +0.864
0.9057 +0.856
0.9119 +0.857
0.9144 +0.869
0.9162 +0.877
0.9187 +0.877
0.9204 +0.886
0.9266 +0.901
0.9291 +0.884
0.9308 +0.900
0.9333 +0.904
0.9350 +0.907
0.9413 +0.912
0.9438 +0.900
0.9455 +0.893
0.9480 +0.877
0.9497 +0.902
0.9559 +0.930
0.9584 +0.919
0.9601 +0.920
0.9626 +0.910
0.9643 +0.929

2449133 +
0.9251 +0.665
0.9277 +0.682
0.9294 +0.676
0.9319 +0.687
0.9336 +0.682
0.9398 +0.694
0.9423 +0.712
0.9441 +0.706
0.9466 +0.706
0.9483 +0.722
0.9545 +0.711
0.9570 +0.711
0.9588 +0.736
0.9613 +0.741
0.9630 +0.746
0.9692 +0.739
0.9717 +0.766
0.9734 +0.761
0.9760 +0.762
0.9777 +0.762

2449135 +
0.8932 +1.004
0.8957 +1.014
0.8974 +0.999
0.8999 +1.002
0.9016 +1.026
0.9079 +1.004
0.9104 +1.015

Table 11.

0.9121 +1.020	0.8260 +0.495	0.8330 +0.482	0.8325 +0.946	0.8204 +0.982
0.9146 +1.027	0.8285 +0.525	0.8356 +0.462	0.8350 +0.950	0.8229 +0.983
0.9163 +1.007	0.8302 +0.512	0.8372 +0.451	0.8367 +0.953	0.8246 +0.983
0.9225 +1.027	0.8328 +0.554	0.8397 +0.418	0.8392 +0.955	0.8271 +1.000
0.9250 +1.019	0.8345 +0.548	0.8414 +0.415	0.8409 +0.949	0.8288 +0.994
0.9267 +1.024	0.8426 +0.535	0.8477 +0.344	0.8472 +0.946	0.8351 +0.990
0.9292 +0.999	0.8451 +0.558	0.8502 +0.309	0.8497 +0.957	0.8377 +1.018
0.9309 +1.005	0.8468 +0.558	0.8519 +0.324	0.8514 +0.952	0.8394 +1.003
0.9371 +0.998	0.8493 +0.571	0.8544 +0.305	0.8539 +0.954	0.8419 +1.009
0.9396 +0.989	0.8510 +0.568	0.8562 +0.279	0.8556 +0.952	0.8436 +1.014
0.9413 +0.965	0.8572 +0.594	0.8624 +0.229	0.8619 +0.965	0.8500 +1.006
0.9438 +0.998	0.8597 +0.596	0.8649 +0.227	0.8644 +0.971	0.8526 +1.035
0.9456 +0.961	0.8614 +0.596	0.8666 +0.217	0.8661 +0.982	0.8543 +1.010
0.9518 +0.882	0.8639 +0.610	0.8691 +0.208	0.8686 +0.969	0.8568 +1.031
0.9543 +0.862	0.8656 +0.602	0.8708 +0.208	0.8703 +0.977	0.8585 +1.034
0.9560 +0.860	0.8719 +0.604	0.8770 +0.229	0.8766 +0.994	0.8647 +1.024
0.9585 +0.834	0.8744 +0.629	0.8796 +0.225	0.8791 +0.997	0.8672 +1.038
0.9602 +0.800	0.8761 +0.627	0.8813 +0.226	0.8808 +1.014	0.8690 +1.034
0.9664 +0.748	0.8786 +0.644	0.8838 +0.236	0.8833 +1.011	0.8715 +1.015
0.9689 +0.713	0.8803 +0.646	0.8855 +0.243	0.8850 +1.030	0.8732 +1.045
0.9706 +0.699	0.8865 +0.654	0.8917 +0.262	0.8912 +1.053	0.8794 +1.023
0.9731 +0.684	0.8890 +0.666	0.8942 +0.246	0.8937 +1.029	0.8819 +1.013
0.9748 +0.649	0.8907 +0.670	0.8959 +0.269	0.8955 +1.031	0.8836 +0.993
	0.8932 +0.679	0.8984 +0.282	0.8980 +1.050	0.8862 +0.975
2449136 +	0.8949 +0.690	0.9001 +0.279	0.8997 +1.046	0.8879 +0.953
0.8877 +0.894	0.9012 +0.693	0.9064 +0.304	0.9059 +1.031	0.8941 +0.905
0.8902 +0.894	0.9037 +0.697	0.9089 +0.311	0.9084 +1.024	0.8966 +0.890
0.8919 +0.921	0.9054 +0.701	0.9106 +0.331	0.9101 +1.031	0.8983 +0.873
0.8944 +0.904	0.9079 +0.702	0.9131 +0.336	0.9126 +0.983	0.9009 +0.849
0.8961 +0.912	0.9096 +0.722	0.9148 +0.330	0.9144 +0.981	0.9026 +0.826
0.9023 +0.910	0.9158 +0.736	0.9210 +0.375	0.9206 +0.962	0.9088 +0.729
0.9048 +0.910	0.9183 +0.724	0.9235 +0.375	0.9231 +0.929	0.9113 +0.698
0.9065 +0.926	0.9200 +0.727	0.9252 +0.371	0.9248 +0.909	0.9130 +0.686
0.9091 +0.917	0.9225 +0.730	0.9277 +0.374	0.9273 +0.909	0.9155 +0.648
0.9107 +0.929	0.9242 +0.745	0.9294 +0.373	0.9290 +0.857	0.9172 +0.608
0.9170 +0.927	0.9305 +0.750	0.9356 +0.428	0.9353 +0.792	0.9235 +0.480
0.9195 +0.932	0.9330 +0.753	0.9382 +0.434	0.9378 +0.758	0.9260 +0.419
0.9212 +0.929	0.9347 +0.751	0.9399 +0.435	0.9395 +0.764	0.9277 +0.377
0.9237 +0.928	0.9372 +0.765	0.9424 +0.436	0.9420 +0.726	0.9302 +0.338
0.9254 +0.937	0.9389 +0.769	0.9441 +0.443	0.9437 +0.700	0.9319 +0.322
0.9316 +0.941	0.9451 +0.775	0.9503 +0.461	0.9499 +0.640	0.9382 +0.231
0.9341 +0.956	0.9476 +0.803	0.9528 +0.471	0.9524 +0.623	0.9407 +0.205
0.9358 +0.941	0.9493 +0.812	0.9545 +0.468	0.9542 +0.594	0.9424 +0.174
0.9384 +0.940	0.9518 +0.779	0.9570 +0.498	0.9567 +0.569	0.9449 +0.161
0.9400 +0.931	0.9535 +0.802	0.9587 +0.486	0.9584 +0.564	0.9466 +0.143
0.9463 +0.962	0.9598 +0.818	0.9650 +0.507	0.9646 +0.484	0.9528 +0.114
0.9488 +0.967	0.9623 +0.820	0.9675 +0.527	0.9672 +0.454	0.9554 +0.103
0.9505 +0.957	0.9640 +0.831	0.9692 +0.520	0.9689 +0.446	0.9571 +0.102
0.9530 +0.954	0.9665 +0.844	0.9717 +0.541	0.9714 +0.422	0.9596 +0.098
0.9547 +0.971	0.9682 +0.839	0.9734 +0.543	0.9731 +0.422	0.9613 +0.100
0.9609 +0.963				
0.9634 +0.958	2449138 +	2449139 +	2449143 +	2449144 +
0.9651 +0.991	0.8003 +0.799	0.7981 +0.995	0.7861 +0.999	0.7841 +0.891
0.9676 +0.983	0.8028 +0.782	0.8006 +0.994	0.7886 +1.024	0.7867 +0.910
0.9693 +0.977	0.8045 +0.743	0.8024 +0.999	0.7903 +0.991	0.7884 +0.904
	0.8071 +0.725	0.8049 +0.996	0.7928 +1.018	0.7909 +0.907
2449137 +	0.8088 +0.717	0.8066 +0.984	0.7945 +1.000	0.7926 +0.874
0.8103 +0.446	0.8165 +0.655	0.8155 +0.951	0.8035 +1.002	0.8011 +0.921
0.8128 +0.472	0.8190 +0.638	0.8181 +0.973	0.8060 +1.012	0.8036 +0.914
0.8145 +0.478	0.8207 +0.602	0.8198 +0.962	0.8077 +1.012	0.8054 +0.917
0.8171 +0.461	0.8232 +0.577	0.8223 +0.972	0.8102 +0.991	0.8079 +0.926
0.8188 +0.499	0.8249 +0.559	0.8240 +0.965	0.8119 +0.998	0.8096 +0.939

0.8181 +0.931
0.8206 +0.970
0.8223 +0.948
0.8248 +0.912
0.8265 +0.922
0.8330 +0.937
0.8355 +0.945
0.8372 +0.959
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0.8415 +0.955
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0.8572 +1.018
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0.8669 +0.981
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0.9721 +1.005
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0.9736 +0.987
0.9761 +0.992
0.9769 +0.971

2449152 +
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0.9395 +0.987
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0.9616 +0.750
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0.9649 +0.690
0.9675 +0.666
0.9683 +0.638
0.9708 +0.622
0.9716 +0.606

2449154 +
0.9505 +0.843
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0.9606 +0.841
0.9631 +0.880
0.9639 +0.862
0.9664 +0.889
0.9672 +0.883

2449155 +
0.9505 +0.575
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0.9571 +0.553
0.9596 +0.587
0.9605 +0.589
0.9630 +0.599
0.9638 +0.586
0.9663 +0.596
0.9671 +0.613

2449156 +
0.9480 +0.413
0.9505 +0.409
0.9514 +0.398
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0.9547 +0.374
0.9572 +0.330
0.9581 +0.342
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0.9648 +0.298

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0.9724 +0.895

2449159 +
0.9467 +0.641
0.9492 +0.666
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0.9559 +0.684
0.9567 +0.664
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0.9626 +0.701
0.9634 +0.700

2449160 +
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2449161 +
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2449165 +
0.9353 +0.995
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0.9205 +0.842
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0.9300 +0.821
0.9308 +0.817
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0.9442 +0.822

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