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No. 92 EIGHT-COLOR NARROW-BAND PHOTOMETRY OF 985 BRIGHT STARS

by H. L. JOHNSON, R. I. MITCHELL AND A. S. LATHAM

June 14, 1967

ABSTRACT

We give here eight-color photometry of 985 stars north of −20° declination. The medium-narrow filters are similar to those of Borgman, and our data should be capable of similar interpretations. We have derived an absolute calibration of our new photometry. The data given here should be regarded as defining the shorter-wavelength portion of a 13-color medium-narrow-band photometric system, extending from 3300 Å in the ultraviolet to 11,000 Å in the infrared.

1. *Introduction*

In recent years we have seen the introduction of many special-purpose narrow-band photometric systems. Among these are the uvby system of Strömgren and Perry (1962), the χ system of Neff and Travis (1967), and the $b_1b_2b_3y$ system of Willstrop (1960). Borgman (1960, 1961) introduced a seven-color system that seems to offer most of the advantages of the other, more limited, systems. Some of the uses of this seven-color system have been discussed by Borgman (1963) and Borgman and Blaauw (1964).

We have decided to adopt essentially the system of Borgman, plus six additional similar filter bands in the red and infrared. The system plan, compared with that for the UBVRI system, is shown in Figure 1. The wavelengths of the maximum sensitivity and the half-intensity widths are indicated on the figure for the several filter bands.

This observing program was carried out with the financial assistance of the National Aeronautics and Space Administration, in connection with our proposed ultraviolet (1000 Å to 3000 Å) photometric and polarimetric measurements from an Orbiting Astronomical Observatory. We consider it essential to obtain good photometric data on the bright stars with a system having characteristics compatible with that we would use from the satellite. When the entire observing program is completed, we will have stellar photometric data in approximately 20 medium-narrow bands ranging in wavelength from about 1200 Å to 11,000 Å.

As the first step in this program, we have observed the 985 stars brighter than visual magnitude 5.0, north of declination −20°, in the eight shorter-wavelength bands. This choice of filter bands was dictated by the fact that these eight can be fitted into the spectral response of the S-4 photosensitive surface of an RCA 1P21. These are the data published here. We are now beginning the observing program that will add the five red and infrared filters. The filters are identified throughout this paper by their approximate effective wavelengths, i.e., 33, 35, 37, 40, 45, 52, 58, and 63. Thus, the 33 filter has an approximate effective wavelength of 0.33 μ, etc.

2. *Instrumentation*

Almost all of our eight-color observations were obtained with LPL's 21-in. photometric telescope; a few were obtained with the 28-in. The photometer,

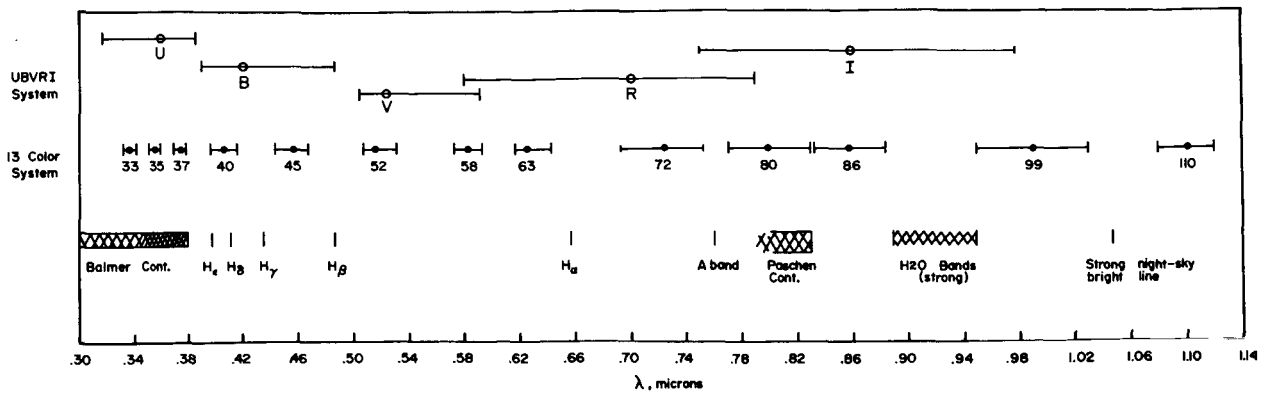

Fig. 1 The 13-color system compared with the UBVRI system and with certain stellar or atmospheric features.

the automated data-collection system, and the data-reduction procedures have been described earlier (Johnson and Mitchell 1962).

The filter-detector response functions are presented in tabular form in Table 1 and in graphical form in Figures 2 – 9; all data have been normalized to 100 percent at the filter-band peaks. Table 2 contains certain derived data for the eight filter bands; the effective wavelengths are listed in the second column, while the absolute calibration of our new photometry (to be discussed below) is given in the last two columns. We define the effective wavelength as

$$\lambda_0 = \int_0^\infty \lambda\phi(\lambda)d\lambda \Big/ \int_0^\infty \phi(\lambda)d\lambda, \qquad (1)$$

where $\phi(\lambda)$ = the relative sensitivity of the measuring instrument, including the telescope. As Strömgren (1937), Wesselink (1950), and King (1952) have shown, instrumental magnitudes behave to a first-order approximation like monochromatic magnitudes at wavelength λ_0. The term "monochromatic" is not used here in the strictest sense but refers to an averaged or smoothed energy distribution over the region of the filter bandpass. Because of the absorption lines and other features in stellar spectra, we do not expect the absolute calibration of filter-photometry to yield absolute energies that are identical to those obtained from high-resolution spectrophotometry; instead, the absolute fluxes obtained from the calibration derived here apply to rather thoroughly smoothed stellar spectral-energy distributions. The computed effective wavelengths were checked, as described by Johnson (1965), to see that the several values of λ_0 are as nearly independent of stellar temperature as possible. No modifications of the computed effective wavelengths were required.

3. *Observations*

The eight-color program included all stars north of −20° declination that are brighter than fifth visual magnitude on the Harvard system. A total of 985 stars were observed two or three times each (one star, BS 9066, was omitted from observation). The probable errors of the magnitudes and colors are listed in Table 3.

Table 6 summarizes our observational data for the 985 bright stars. The first column gives the number of the star in the *Catalogue of Bright Stars* (Hoffleit 1964), followed by the photometric data. The last two columns contain the number of observations used in the mean, and the spectral type of the star, which was copied from Johnson, *et al.* (1966).

The observations in Table 6 were corrected for red leaks in the three ultraviolet filters, 33, 35, and 37. For the most part, these corrections were small and, therefore, quite precise. For the reddest carbon stars, however, we were unable to obtain significant measures in the 33 filter; for these stars, the lower limit for the color 33−52 is given in parentheses, i.e., (12+).

A few stars were observed with a 35 filter whose effective wavelength is about 0.365 μ (instead of 0.353 μ). These data have been graphically transformed to the adopted 35 system and entered in brackets in Table 6. The transformation, unfortunately, is rather imprecise, and for these few stars the color 35−52 should be used with some reserve.

The individual observations are listed in Tables 7, 8, and 9. For convenience in data-processing, the observational data were listed in three tables; all of

TABLE 1

FILTER-DETECTOR RESPONSE FUNCTIONS

Percent of Peak Response

33		35		37		40		45		52		58		63	
λ(A)	%	λ(A)	%	λ(A)	%	λ(A)	%	λ(A)	%	λ(A)	%	λ(A)	%	λ(A)	%
3157	0.7	3060	0.1	3204	0.2	3187	0.2	4004	0.1	4704	0.4	5249	0.0	6024	0.1
3254	6.9	3204	2.2	3500	2.4	3404	1.1	4254	1.0	4904	3.2	5604	7.7	6077	4.4
3293	21.5	3404	8.8	3603	6.7	3602	2.7	4354	7.1	5004	15.0	5648	14.6	6111	17.5
3311	33.3	3461	19.0	3672	22.2	3749	5.3	4382	15.9	5028	20.4	5693	26.4	6142	31.5
3317	43.4	3490	28.8	3690	33.3	3805	7.7	4400	23.8	5048	30.0	5717	37.4	6157	43.3
3319	45.7	3504	38.9	3704	44.4	3904	20.5	4413	31.7	5062	39.5	5735	49.4	6170	52.5
3328	58.7	3515	48.6	3708	47.8	3935	33.9	4424	39.7	5077	48.8	5749	57.1	6180	61.2
3337	71.5	3522	59.2	3711	55.6	3956	45.2	4437	47.6	5082	55.5	5755	61.7	6194	69.6
3345	84.5	3533	69.5	3717	66.7	3964	49.7	4443	55.6	5086	58.0	5762	65.5	6201	79.6
3354	96.6	3538	79.7	3726	77.8	3974	56.5	4451	63.5	5095	65.1	5770	75.3	6208	87.5
3358	99.7	3547	89.7	3734	88.9	3988	67.8	4460	71.4	5107	76.1	5783	83.1	6211	89.2
3380	91.4	3565	100.0	3748	97.8	4003	79.1	4472	79.4	5117	84.9	5798	88.8	6223	90.6
3388	79.3	3576	90.5	3750	100.0	4024	90.4	4487	87.3	5130	92.8	5810	97.2	6230	96.3
3396	68.7	3584	80.5	3767	88.9	4070	100.0	4520	95.2	5160	99.8	5827	100.0	6245	98.7
3399	66.9	3586	70.4	3776	77.8	4113	90.4	4571	100.0	5177	99.2	5850	96.3	6252	99.7
3410	54.2	3599	61.0	3782	66.7	4131	79.1	4597	95.2	5226	96.3	5854	95.2	6267	96.7
3422	41.1	3610	51.2	3794	55.6	4146	67.8	4615	87.3	5248	91.7	5884	80.0	6288	96.2
3442	27.7	3612	40.7	3803	44.4	4159	56.5	4630	79.4	5269	81.1	5907	66.5	6310	90.0
3448	22.8	3626	30.8	3818	33.3	4170	45.2	4643	71.4	5284	70.9	5925	54.5	6349	81.5
3491	8.8	3642	21.0	3842	22.2	4185	33.9	4654	63.5	5292	62.5	5940	45.7	6355	77.0
3602	1.2	3704	6.0	3884	11.1	4203	22.6	4669	55.6	5302	54.3	5956	36.4	6443	47.6
3719	0.1	3830	0.1	3904	8.9	4236	11.3	4679	47.6	5316	46.0	5971	29.0	6601	21.2
				4082	0.0	4254	6.9	4694	39.7	5322	37.4	5981	23.4	6691	8.2
						4304	2.0	4708	31.7	5336	30.4	5986	21.8	6840	5.1
						4564	0.0	4730	23.8	5350	22.0	6001	16.6	6987	2.3
								4772	16.0	5375	13.8	6021	10.9	7134	0.8
								4876	7.9	5404	7.3	6048	6.4		
								4999	4.1	5523	1.0	6099	2.3		
								5309	1.6	5704	0.2	6104	1.9		
								5604	0.5			6229	0.2		

TABLE 2

ABSOLUTE CALIBRATION OF EIGHT-COLOR FILTERS

Flux Density (mag = 0.00)

FILTER BAND	λ_0	F_λ	F_λ
33	0.337 μ	3.33×10^{-12}w/cm$^2\mu$	1.13×10^{-23}w/m^{2}Hz
35	0.353 μ	3.51×10^{-12}w/cm$^2\mu$	1.46×10^{-23}w/m^{2}Hz
37	0.375 μ	5.04×10^{-12}w/cm$^2\mu$	2.36×10^{-23}w/m^{2}Hz
40	0.402 μ	7.73×10^{-12}w/cm$^2\mu$	4.17×10^{-23}w/m^{2}Hz
45	0.459 μ	6.31×10^{-12}w/cm$^2\mu$	4.43×10^{-23}w/m^{2}Hz
52	0.518 μ	4.61×10^{-12}w/cm$^2\mu$	4.13×10^{-23}w/m^{2}Hz
58	0.583 μ	3.32×10^{-12}w/cm$^2\mu$	3.76×10^{-23}w/m^{2}Hz
63	0.635 μ	2.49×10^{-12}w/cm$^2\mu$	3.35×10^{-23}w/m^{2}Hz

TABLE 3

PROBABLE ERROR OF A SINGLE OBSERVATION

52	33 − 52	35 − 52	37 − 52	40 − 52	45 − 52	52 − 58	52 − 63
±0.017	±0.014	±0.012	±0.011	±0.011	±0.009	±0.011	±0.013

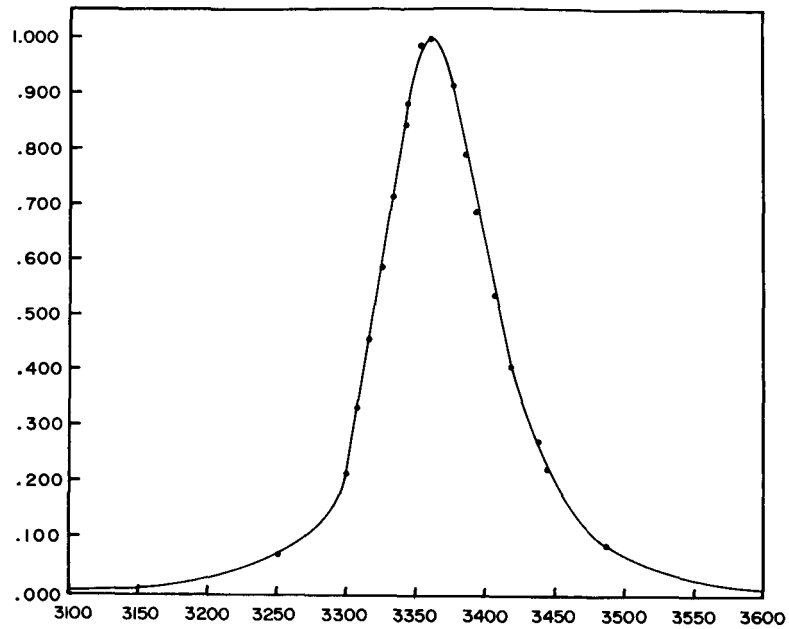

Fig. 2 Normalized response function for filter 33, as given in Table 1.

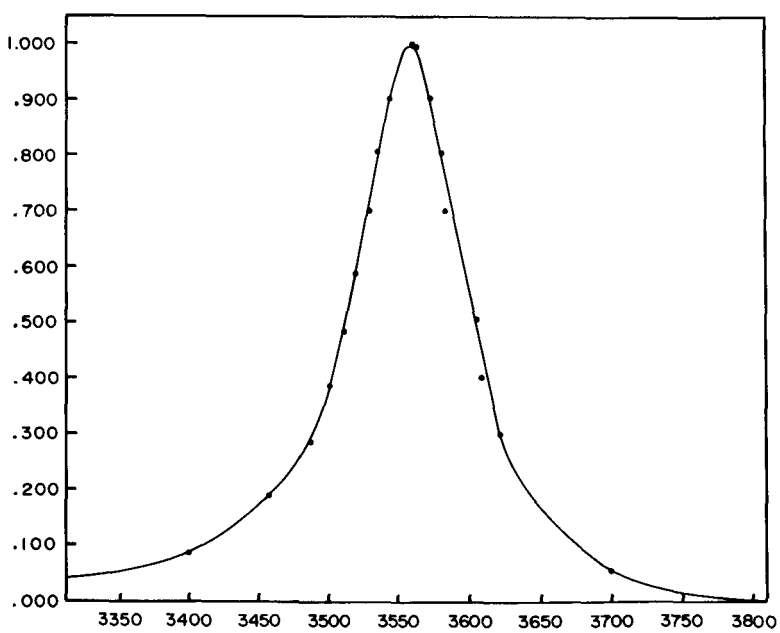

Fig. 3 Normalized response function for filter 35, as given in Table 1.

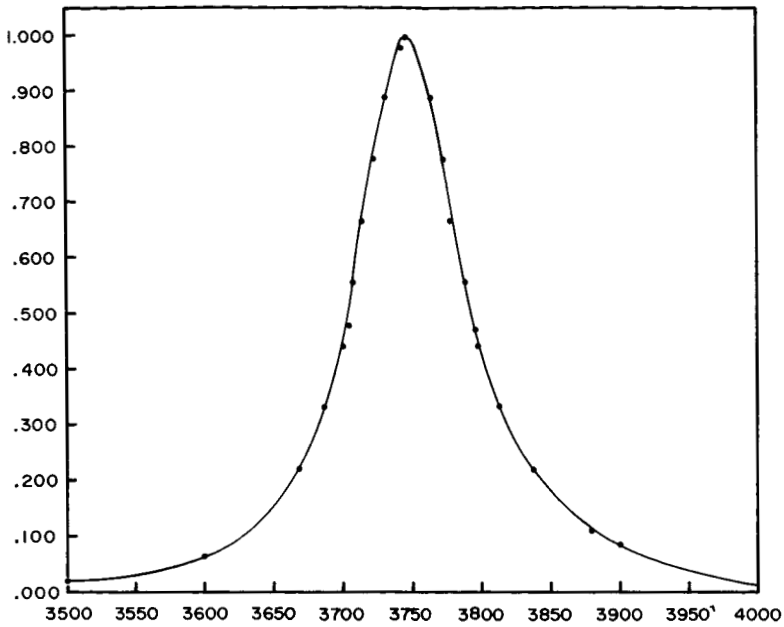

Fig. 4 Normalized response function for filter 37, as given in Table 1.

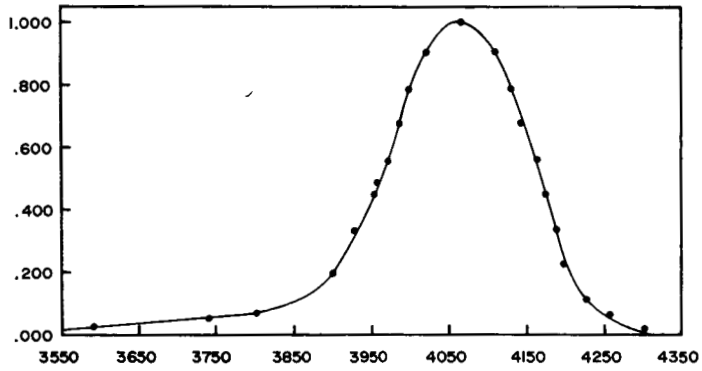

Fig. 5 Normalized response function for filter 40, as given in Table 1.

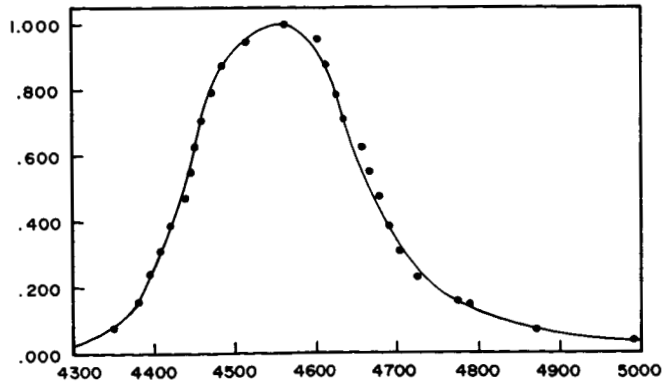

Fig. 6 Normalized response function for filter 45, as given in Table 1.

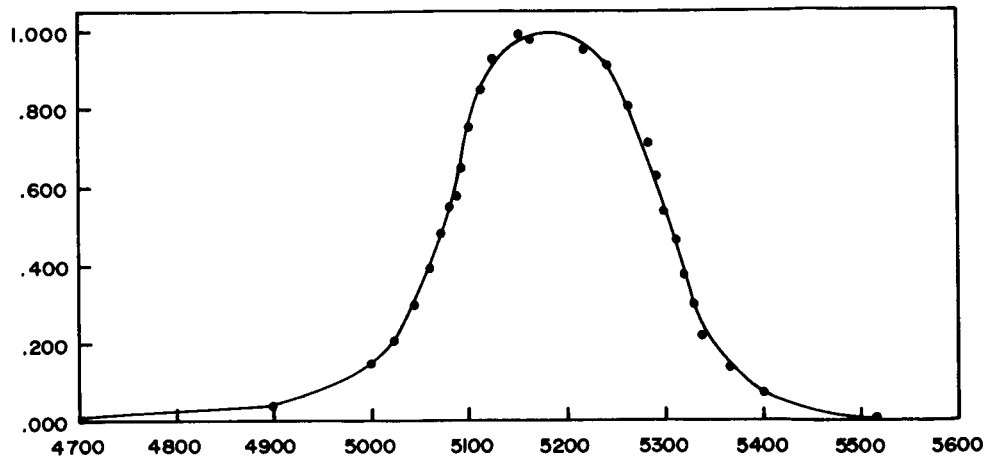

Fig. 7 Normalized response function for filter 52, as given in Table 1.

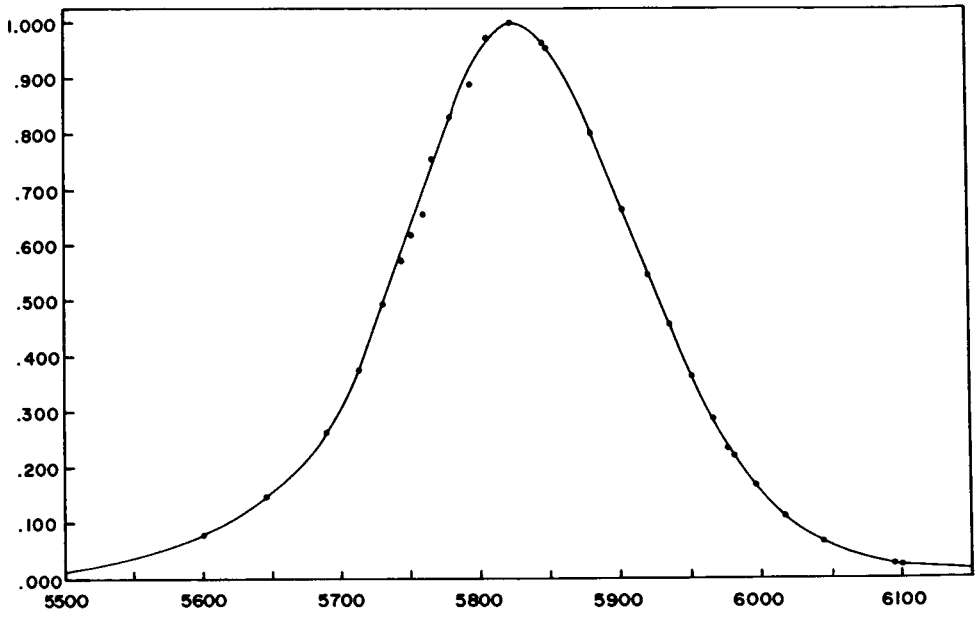

Fig. 8 Normalized response function for filter 58, as given in Table 1.

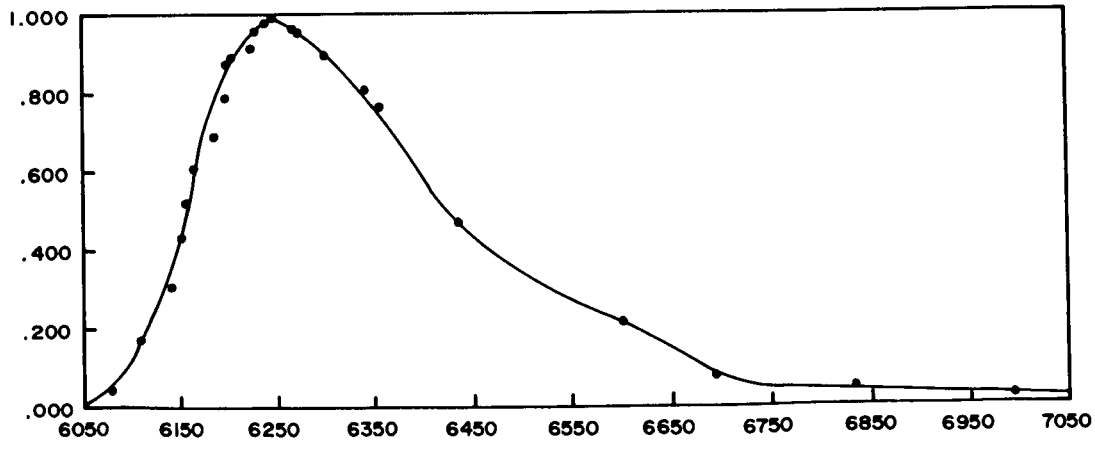

Fig. 9 Normalized response function for filter 63, as given in Table 1.

TABLE 4

CORRECTIONS INCORPORATED IN TABLE 6

	Right Ascension Correction Added to Mag 52 by B.S. Number									
From	1	1351	1701	1951	2251	2751	3751	4251	4501	4751
To	1350	1700	1950	2250	2750	3750	4250	4500	4750	7500
Correction	−0.009	−0.007	−0.005	−0.003	−0.001	+0.001	+0.003	+0.005	+0.007	+0.009
From	7501	7701	7801	7951	8101	8201	8301	8501	8701	
To	7700	7800	7950	8100	8200	8300	8500	8700	9100	
Correction	+0.007	+0.005	+0.003	+0.001	−0.001	−0.003	−0.005	−0.007	−0.009	

Red Leak Corrections to Ultraviolet Colors

$$(33-52) = (33-52)^* + \text{Antilog}_{10}[-3.830 + 0.5000(U-R)]$$
$$(35-52) = (35-52)^* + \text{Antilog}_{10}[-4.057 + 0.4202(U-R)]$$
$$(37-52) = (37-52)^* + \text{Antilog}_{10}[-5.287 + 0.4310(U-R)]$$

* The mean color is from Tables 7 and 8. Note that (U − R) is computed from Table 2 of Johnson, *et al.* (1966).

the data taken during a single eight-color observation were, however, reduced simultaneously. Note that magnitude 40 is given in Table 7, while 52 is given in Table 8. The data in Tables 7, 8, and 9 have *not* been corrected for the red leaks of the ultraviolet filters, nor for a small right-ascension error, to be discussed in the next section. The corrections needed, *which have been applied to the data in Table 6*, are given in Table 4.

Not all of the numbers printed in Tables 7, 8, and 9 are actually satisfactory photometric data; in some cases meaningless numbers or zeros appear there. It is the function of the "weight" columns of these tables to indicate which values are actually meaningful; zero weight means that the numbers in the corresponding photometry columns should be ignored. The number in the last column (LS) of these tables refers to the reduction procedures: "3" indicates a least-squares adjustment of the extinction coefficients and the zero-points of the magnitudes and colors; "1" indicates the assumption of the mean extinction coefficients listed in Table 5. If the last two colors in Tables 7 and 8 are blank, this indicates that the wrong 35 filter was used. The untransformed data (called 33−36) are listed in Table 9.

TABLE 5

OBSERVED ATMOSPHERIC EXTINCTION AT THE CATALINA OBSERVATORY
(Mean for 100 Nights)

FILTER No.	33	35	37	40	45	52	58	63
k	0.692	0.570	0.459	0.352	0.237	0.180	0.164	0.122

The symbols in the "remarks" column of Table 6 indicate the following:

V . . . The star is variable according to our eight-color or UBVRI data;

D . . . Two or more stars were contained within the focal-plane diaphragm; the fainter stars may contribute 1 percent or more of the light;

* . . . An unexplained discordance appears among the individual observations (see Tables 7, 8, and 9). The data in Table 6 have been checked against UBV photometry.

4. *Comparisons with Other Data*

A reasonably satisfactory visual magnitude can be obtained from the eight-color photometry by the following equation:

$$v = (52) - 0.0059 - 0.5362(52-58), \qquad (2)$$

where the lowercase "v" designates the transformed visual magnitude. The comparison of v with our Catalina V magnitudes (Johnson, *et al.* 1966) is shown in Figure 10. Only those stars for which $-0.1 < B-V < +0.2$ were plotted. Figure 10 also shows the comparison between our 52 and Borgman's L (designated L_B) magnitudes. Borgman's photometer is, of course, independent of ours, while the eight-color photometer is entirely independent of the UBVRI photometer. The comparisons of Figure 10 indicate that there are no declination-dependent errors in the magnitudes, either in our two independent photometric series or in Borgman's data.

Since the V system was shown to be free of systematic errors in right ascension (Johnson, *et al.* 1966), we used V as a test for right-ascension errors in the magnitude 52. The comparison between v and V, as a function of Bright Star Catalogue number (and therefore of right ascension), is shown in Figure 11, again for stars with $-0.1 < B-V < +0.2$. The indicated corrections are listed in Table 4 and were applied to the data in Table 6.

In Figures 12–17, we show the relations between Borgman's system and ours. The scatter for 52−58 is rather larger than we might have expected from the repeatability of our data; probably, as Borgman comments, his 0.58 μ data are less reliable than the others. Figure 17 shows that our magnitude 33 does not transform well to Borgman's R. On the whole, however, the agreement is good, but the difficulties in transforming between filters even as nearly the same as these are evident.

5. *The Absolute Calibration*

We have obtained our absolute calibration by comparing our data with published absolutely calibrated data. We have used four independent sources of relative-energy calibrations: First, Code's (1960, also Melbourne 1960) calibration was supplemented by transforming to Code's system the data of Bonsack and Stock (1957) and Bahner (1963). This supplement contributed primarily additional weight for the magnitudes 33, 35, 37, and 40. Second, Stebbins and Kron's (1964) absolutely calibrated six-color broad-band photometry was used with simple linear interpolation and extrapolation. Third, Willstrop's (1965) spectral scans from 4000 Å to 6500 Å contributed the best-defined values for 40, 45, 52, 58, and 63.

The fourth independent source, the Sun, required some judgment because of conflicting data; the differences are as much as 10 percent. A derivation of the colors of the Sun on our eight-color system can be made in two ways: First, by the assumption of Morgan's (Morgan and Hiltner 1965) standard G2V spectral class for the Sun; second, by interpolating among Stebbins and Kron's (1957) six-color observations of the Sun and similar stars. The absolute-energy ratios for the Sun may be taken from Allen's (1963) table and Labs and Neckel's (1967) data. From these data, the fourth independent relative-energy calibration was obtained.

Two additional sources that made significant contributions in the ultraviolet were used with low weights: Bahner's (1963) lamp calibration of α Lyrae, and Glushneva's (1963) ultraviolet calibration.

Although the probable errors for the energies, relative to 52, are less than 2 percent for 40, 45, 58, and 63, our experience suggests an estimate of at least 3 percent for these magnitudes. We estimate probable errors of 5 percent for 35 and 37, and 10 percent for 33.

We have used three principal sources for the absolute calibration of the 52 filter: Two are the direct stellar observations by Willstrop (1960) and Code (1960); the third is based on the Sun. We adopt for the solar magnitude, $V = -26.71$ (Johnson 1965, Table 4, without Code and Willstrop). This magnitude was combined with the solar data of Allen (1963) and of Labs and Neckel (1967), and the calibration for the 52 magnitude was obtained through the use of Equation (2). In addition, the calibration by Glushneva (1963) was included with low weight. The final energy for zero magnitude at 52 has a formal probable error of 2 percent.

The absolute calibration is summarized in Table 2, tabulated for zero magnitude in each filter band.

Acknowledgments. We are indebted to Mrs. Kathryn Sheffer for her help in processing the data and preparing it for publication, and to Messrs. James R. Percy and "Tex" Belschner for building and maintaining photometric and automated data-recording apparatus. This research was supported by the National Aeronautics and Space Administration, under Contracts Nos. NSR 03-002-048, NsG–733, and NASr–218.

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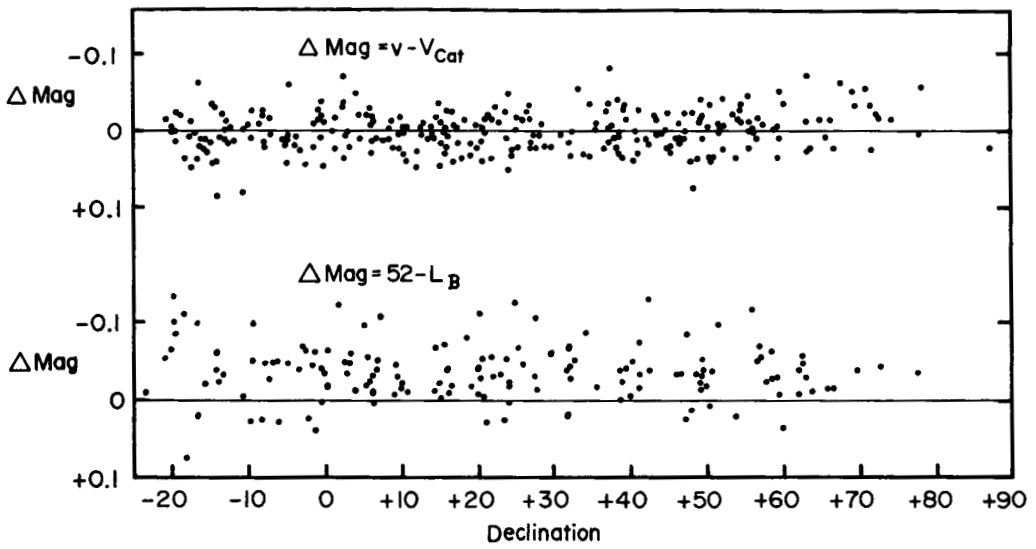

Fig. 10 A comparison of our narrow-band magnitudes with two other magnitude systems as a function of declination.

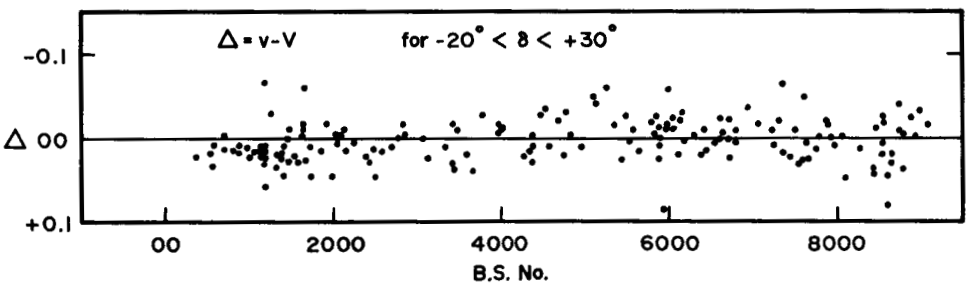

Fig. 11 Right-ascension correlation by B.S. number for our magnitude system in a restricted declination zone.

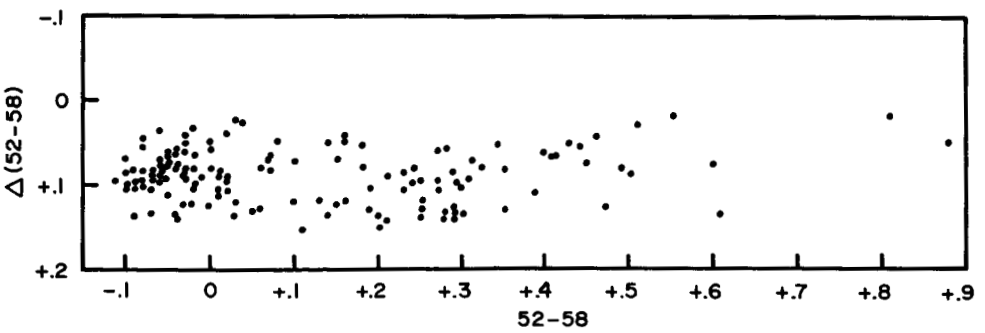

Fig. 12 Comparison of Borgman's (L—K) with our (52—58). The difference is in the sense (L—K) — (52—58).

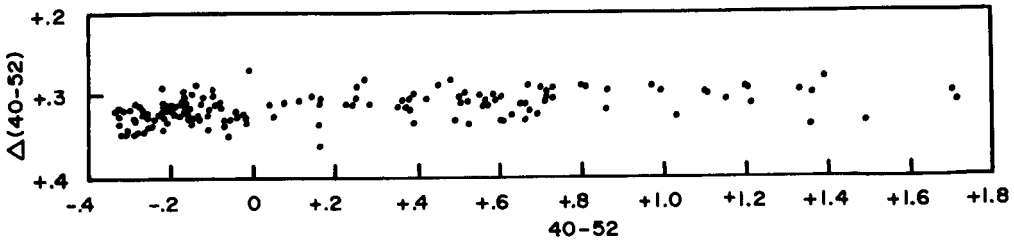

Fig. 13 Comparison of Borgman's (N—L) with our (40—52). The difference is in the sense (N—L) — (40—52).

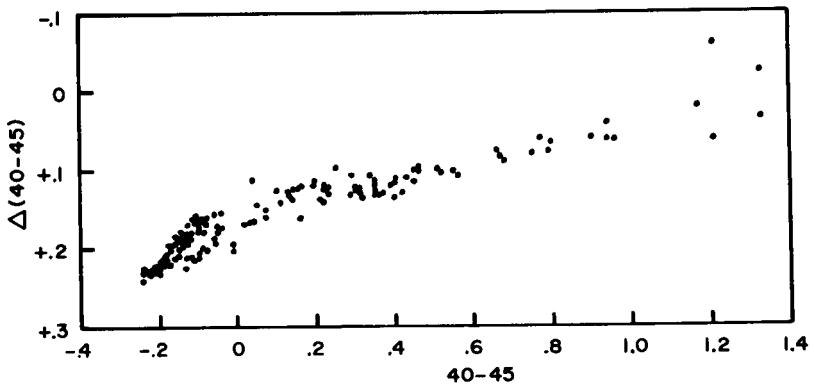

Fig. 14 Comparison of Borgman's (N—M) with our (40—45). The difference is in the sense (N—M) — (40—45).

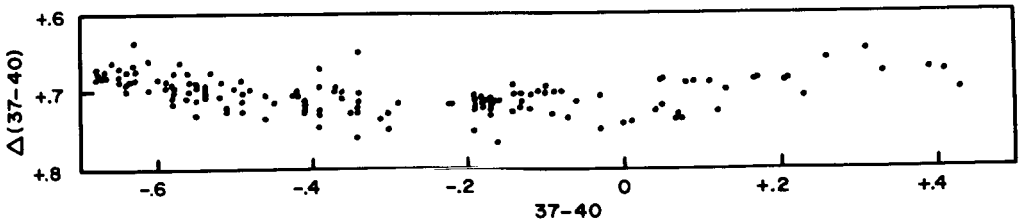

Fig. 15 Comparison of Borgman's (P—N) with our (37—40). The difference is in the sense (P—N) — (37—40).

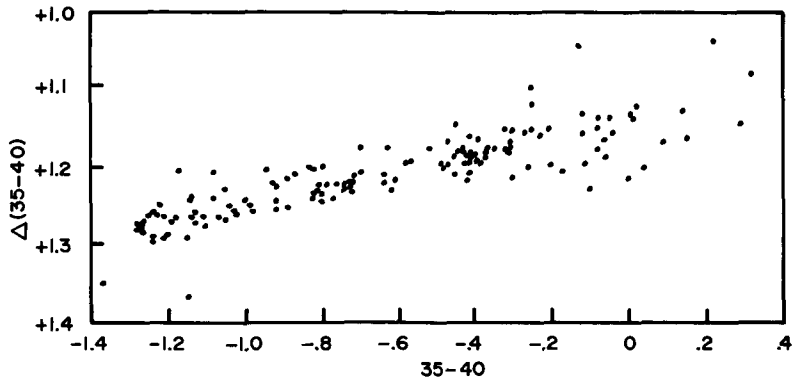

Fig. 16 Comparison of Borgman's (Q—N) with our (35—40). The difference is in the sense (Q—N) — (35—40).

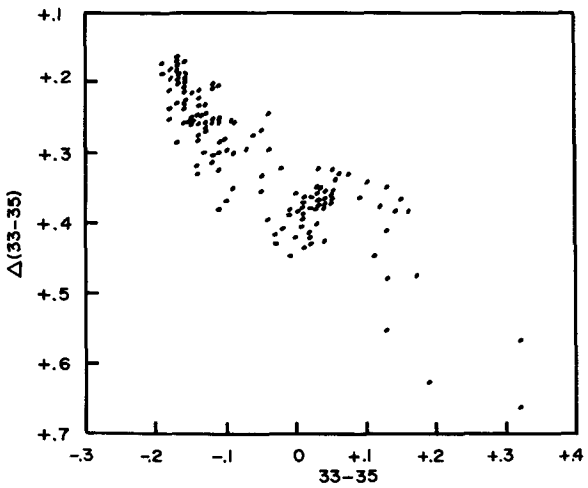

Fig. 17 Comparison of Borgman's (R—Q) with our (33—35). The difference is in the sense (R—Q) — (33—35).

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B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
3	4.878	1.600	1.446	1.616	1.365	0.428	0.514	0.819	3	K1 III
15	2.060	-0.853	-0.756	-0.440	-0.165	-0.074	-0.023	-0.046	2	B9p (III)
21	2.366	0.292	0.255	0.304	0.378	0.146	0.181	0.310	8	F2 IV
27	5.119	0.692	0.585	0.372	0.431	0.196	0.233	0.375	2	F2 II
33	5.017	0.133	0.092	0.343	0.543	0.234	0.250	0.416	2	F6 V
39	2.793	-1.502	-1.344	-0.853	-0.310	-0.100	-0.078	-0.122	10	B2 IV
45	5.197	3.453	2.976	2.982	2.319	0.668	0.743	1.257	29	M2 III
48 V	4.893	3.683	3.200	3.184	2.506	0.748	0.777	1.299	3	(gM1)
63	4.637	0.031	0.061	0.117	0.058	-0.003	0.068	0.044	2	A2 V
68	4.531	0.045	0.083	0.161	0.089	0.015	0.036	0.041	2	A2 V
74	3.854	2.232	2.046	2.111	1.704	0.518	0.568	0.898	3	K2 III
123 D	4.714	-0.633	-0.536	-0.335	-0.119	-0.052	-0.023	-0.056	2	(B8)
130	4.219	-1.117	-1.008	-0.544	0.070	0.119	0.083	0.152	2	B1 Ia
153	3.684	-1.447	-1.268	-0.802	-0.267	-0.087	-0.061	-0.111	2	B2.5 IV
154	4.367	-1.020	-0.886	-0.554	-0.178	-0.059	-0.023	-0.058	2	B5 V
163	4.559	1.102	0.910	1.081	1.079	0.409	0.406	0.667	2	G8 IIIp
165	3.644	2.503	2.291	2.390	1.847	0.514	0.660	0.990	2	K3 III
168	2.520	2.068	1.903	1.977	1.647	0.533	0.536	0.828	2	K0 II-III
179	4.824	-1.059	-0.932	-0.583	-0.172	-0.050	-0.025	-0.030	2	B2 V
188	2.353	1.698	1.534	1.653	1.390	0.454	0.507	0.787	2	K1 III
193	4.585	-0.852	-0.744	-0.493	-0.100	-0.014	0.027	0.030	2	B2 V
194	5.037	1.582	1.424	1.577	1.337	0.438	0.483	0.782	3	K0 III
215 V	4.436	1.726	1.550	1.707	1.475	0.484	0.574	0.900	2	K1 II
219 D	3.586	0.233	0.178	0.466	0.657	0.252	0.288	0.508	4	G0 V
224	4.867	3.175	2.794	2.884	2.232	0.601	0.773	1.216	2	K5 III
226	4.534	-1.021	-0.896	-0.542	-0.179	-0.057	-0.054	-0.075	3	B5 V
244	4.930	0.313	0.283	0.502	0.648	0.258	0.264	0.453	2	F8 V
248	5.180	3.356	2.913	2.971	2.329	0.651	0.796	1.251	3	M0 III
253	5.125	2.235	1.986	2.121	1.698	0.517	0.595	0.932	2	K2 III
264 V	2.269	-1.649	-1.533	-0.867	-0.163	-0.001	-0.001	0.074	3	B0 IV:e
265	4.851	1.343	1.169	1.336	1.219	0.421	0.454	0.744	2	G8 III-IV
269	3.910	0.187	0.197	0.213	0.153	0.032	0.057	0.118	2	A4 III
271	4.617	1.351	1.205	1.360	1.218	0.413	0.426	0.714	2	G8 III-IV
285	4.536	2.296	2.123	2.222	1.759	0.528	0.580	0.901	1	K2 III
294	4.507	1.400	1.218	1.378	1.258	0.448	0.431	0.756	2	K0 III
334	3.757	2.080	1.908	2.026	1.610	0.476	0.572	0.891	2	K3 III
335 D	4.250	-0.630	-0.519	-0.400	-0.103	-0.029	0.004	0.004	2	B7 V
337	2.509	3.471	2.984	3.046	2.367	0.662	0.798	1.275	2	M0 III
343	4.390	0.228	0.236	0.273	0.222	0.058	0.087	0.132	2	A7 V
351	4.899	1.573	1.433	1.561	1.370	0.471	0.476	0.747	2	G8 III
352	4.783	1.798	1.676	1.799	1.476	0.469	0.534	0.838	2	K0 III-IV
360	4.924	1.603	1.471	1.606	1.412	0.460	0.485	0.754	2	K0 III
383	4.796	0.128	0.162	0.094	0.032	-0.006	0.039	0.032	2	A3 V
390	5.142	1.826	1.676	1.798	1.476	0.462	0.515	0.795	2	K0 III-IV
399	5.004	1.687	1.570	1.713	1.424	0.450	0.518	0.803	2	K0 III
402	3.920	1.715	1.574	1.704	1.416	0.458	0.518	0.827	2	K0 III
403 V	2.689	0.215	0.230	0.231	0.150	0.036	0.075	0.093	3	A5 V
417	4.936	0.107	0.094	0.320	0.495	0.191	0.214	0.365	2	F4 IV
424 V	2.119	0.867	0.726	0.655	0.712	0.260	0.309	0.475	3	F8 Ib
434	5.231	2.784	2.390	2.523	1.966	0.558	0.712	1.111	2	K4 III
437	3.848	1.433	1.301	1.408	1.266	0.433	0.433	0.718	2	G8 III
442	4.914	1.483	1.316	1.464	1.298	0.442	0.457	0.743	2	G8 III
458	4.225	0.226	0.189	0.412	0.598	0.229	0.270	0.432	4	F8 V
464	3.926	2.417	2.228	2.323	1.822	0.511	0.642	0.988	3	K3 III
477	4.969	-0.735	-0.634	-0.467	-0.149	-0.044	-0.007	-0.021	2	B8 IV
483	5.106	0.345	0.299	0.575	0.714	0.269	0.312	0.507	4	G2 V
489	4.817	2.745	2.417	2.541	1.963	0.549	0.690	1.089	2	K3 III
493	5.461	0.880	0.846	1.160	1.018	0.314	0.448	0.707	3	K1 V
496 V	4.094	-1.431	-1.325	-0.738	-0.109	0.018	0.000	0.166	3	B1pe (III,V)
509	3.726	0.582	0.496	0.818	0.854	0.309	0.379	0.624	2	G8 Vp
510	4.492	1.426	1.300	1.416	1.254	0.414	0.444	0.717	2	G8 III
531	4.718	0.154	0.137	0.301	0.380	0.146	0.178	0.271	2	F2 IV
539	3.985	1.944	1.771	1.885	1.536	0.486	0.521	0.819	2	K2 III
542	3.349	-1.046	-0.908	-0.610	-0.205	-0.068	-0.049	-0.066	2	B3 III
544	3.547	0.268	0.207	0.380	0.548	0.219	0.257	0.412	2	F6 IV
545/6	3.894	-0.313	-0.254	-0.106	-0.046	-0.061	0.012	0.005	2	B9 V /A1p
549	4.837	1.407	1.281	1.426	1.238	0.407	0.451	0.704	2	K0 III
553	2.709	0.137	0.123	0.231	0.161	0.019	0.071	0.092	2	A5 V
569	4.849	0.222	0.197	0.290	0.335	0.122	0.150	0.230	2	F2 IV
575	4.517	0.134	0.133	0.230	0.205	0.053	0.071	0.118	2	A4 V
580	3.961	0.014	0.032	0.049	0.013	-0.025	0.023	0.015	2	A1 V
590	4.993	-0.514	-0.451	-0.381	-0.116	-0.030	-0.007	-0.012	2	B8 V
595/6	3.840	-0.368	(-0.32)	-0.117	-0.038	-0.045	0.045	0.049	3	Am+Ap
603/4	2.415	1.671	(1.60)	1.771	1.556	0.529	0.606	0.912	2	K3 II+A
617	2.314	1.991	1.780	1.941	1.578	0.483	0.552	0.873	63	K2 III
618	5.805	0.461	0.334	0.245	0.587	0.339	0.340	0.582	2	A1 Ia
620	4.829	0.184	0.188	0.199	0.127	0.025	0.060	0.095	2	A4 V
622	3.070	0.223	0.226	0.214	0.166	0.039	0.074	0.119	2	A5 III
648	6.159	3.349	2.943	2.976	2.312	0.636	0.797	1.267	2	M0 III
649	4.580	1.286	1.077	1.209	1.146	0.414	0.408	0.675	2	G8 II
664	4.039	-0.070	-0.022	0.063	0.019	-0.021	0.022	0.006	2	A0 V
681 V	3.261	3.223	2.224	1.886	1.620	1.056	0.333	1.183	1	M4.5(gM6e)
696	6.338	-0.749	-0.680	-0.298	0.244	0.211	0.179	0.299	2	B2 Ia
699	5.160	3.223	2.857	2.969	2.283	0.638	0.786	1.219	3	K4 III
707 D	4.512	0.035	0.043	0.184	0.153	0.018	0.101	0.131	2	A5p
708	4.870	-0.109	-0.052	-0.089	-0.040	-0.019	-0.010	-0.004	2	B9 V
718	4.283	-0.278	-0.207	-0.101	-0.064	-0.038	-0.015	-0.035	56	B9 III
740	4.829	0.168	0.151	0.335	0.504	0.226	0.228	0.388	2	F5 IV-V
753	6.137	1.295	1.154	1.517	1.212	0.275	0.596	0.896	6	K3 V
779	4.058	-1.522	-1.360	-0.874	-0.317	-0.105	-0.094	-0.147	3	B2 IV
788	5.033	0.355	0.304	0.535	0.663	0.238	0.274	0.447	2	F9 V
799	4.250	0.156	0.135	0.379	0.561	0.214	0.245	0.422	2	F7 V
801	4.658	-1.141	-0.976	-0.589	-0.177	-0.058	-0.047	-0.069	2	B3 V
804 D	3.505	0.038	0.061	0.169	0.111	0.006	0.051	0.081	2	A2 V
811	4.244	-0.807	-0.697	-0.460	-0.173	-0.064	-0.021	-0.046	2	B7 V
813	4.352	0.206	0.197	0.311	0.346	0.118	0.178	0.279	2	F0 IV
818	4.567	0.157	0.165	0.402	0.559	0.222	0.251	0.403	2	F6 V
824	4.801	1.923	1.776	1.899	1.537	0.487	0.541	0.831	2	K1 III
834	4.243	3.243	2.930	2.930	2.395	0.777	0.825	1.282	2	K3 Ib+B9 V
838	3.624	-0.689	-0.584	-0.351	-0.131	-0.060	-0.023	-0.046	2	B8 V
840	4.319	0.324	0.284	0.338	0.414	0.171	0.178	0.304	2	F2 III
843	4.981	3.358	2.915	3.003	2.322	0.656	0.785	1.246	2	K5 III
854	4.142	0.956	0.882	0.984	0.902	0.335	0.369	0.617	2	G4 III+A4 V
874	4.160	1.814	1.642	1.803	1.467	0.463	0.517	0.830	2	K1 III-IV
875	5.195	0.108	0.132	0.147	0.105	0.018	0.043	0.067	26	A1 V
879	4.702	0.146	0.179	0.113	0.059	0.010	0.039	0.064	2	A2 V
882	5.252	2.270	2.030	2.174	1.722	0.510	0.593	0.944	2	K2 III
896	4.689	-0.838	-0.721	-0.449	-0.169	-0.065	-0.011	-0.039	2	B5 III
911	2.950	3.511	3.051	3.003	2.438	0.728	0.757	1.273	2	M2 III
915	3.103	0.929	0.877	0.933	0.834	0.327	0.353	0.575	2	G8 III:+A3:

TABLE 6 EIGHT-COLOR PHOTOMETRY OF BRIGHT STARS

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
921 V	3.739	3.738	3.060	2.896	2.269	0.903	0.565	1.277	2	M4 IIIa
932	4.868	-0.010	0.036	0.104	0.051	0.001	0.028	0.022	3	A0 V
936 V	2.158	-0.653	-0.564	-0.320	-0.111	-0.059	0.008	0.025	1	B8 V
937	4.184	0.383	0.335	0.574	0.706	0.263	0.291	0.491	12	G0 V
941	4.052	1.483	1.379	1.525	1.287	0.401	0.484	0.766	2	K0 III
947	4.895	1.884	1.724	1.850	1.537	0.485	0.526	0.833	2	K0 III
951	4.594	1.663	1.537	1.663	1.400	0.463	0.479	0.763	2	K2 III
972	4.893	-0.069	-0.021	-0.005	-0.032	-0.028	0.005	-0.007	2	A0 IV
984	4.874	0.159	0.162	0.244	0.271	0.078	0.135	0.202	2	A7m
985	4.840	-1.270	-1.131	-0.698	-0.208	-0.059	-0.035	-0.070	2	B2 Ve
991	5.200	2.786	2.523	2.615	2.089	0.685	0.714	1.073	2	K2 II
996	5.007	0.464	0.437	0.718	0.805	0.288	0.349	0.542	2	G5 V
999	4.905	3.222	2.862	2.929	2.321	0.689	0.800	1.236	2	K4 III
1002	4.990	0.028	0.077	0.161	0.087	0.010	0.026	0.031	2	A3 V
1017	1.935	0.915	0.781	0.530	0.557	0.216	0.265	0.417	14	F5 Ib
1030	3.831	1.273	1.091	1.216	1.135	0.417	0.429	0.695	2	G8 III
1034	5.042	-0.927	-0.807	-0.468	-0.131	-0.021	-0.028	-0.054	2	B3 V
1035 D	4.407	-0.034	-0.058	0.001	0.388	0.259	0.237	0.425	2	B9 Ia
1038	3.759	-0.635	-0.535	-0.286	-0.104	-0.039	-0.001	-0.014	2	B8 V
1040	4.727	0.223	0.157	0.144	0.498	0.323	0.317	0.540	3	A0 Ia
1044	4.668	-1.001	-0.875	-0.523	-0.156	-0.035	-0.035	-0.042	2	B3 IV
1046 D	5.133	0.014	0.031	0.119	0.053	-0.019	0.027	0.028	2	A1 V
1052	4.727	2.754	2.395	2.540	1.997	0.570	0.690	1.076	2	K3 III
1066	4.384	1.887	1.727	1.838	1.568	0.517	0.486	0.776	2	K0 II-III
1070	4.726	-0.499	-0.400	-0.307	-0.125	-0.039	-0.029	-0.046	2	B8 V
1084	3.966	0.980	0.929	1.270	1.099	0.314	0.487	0.753	41	K2 V
1087	4.233	-0.953	-0.864	-0.547	-0.123	-0.020	-0.018	0.054	2	B5e
1101	4.422	0.310	0.269	0.495	0.667	0.277	0.254	0.444	3	F8 V
1122	3.032	-0.916	-0.796	-0.558	-0.174	-0.065	-0.029	-0.038	3	B5 III
1129	5.000	0.738	0.695	0.790	0.896	0.387	0.424	0.706	2	A1+G2 III
1131	3.856	-1.126	-1.011	-0.539	-0.018	0.065	0.020	0.071	2	B1 III
1135	3.888	0.653	0.561	0.422	0.480	0.188	0.214	0.378	3	F5 II
1136	3.763	1.185	1.133	1.370	1.159	0.357	0.455	0.741	2	K0 IV
1138	5.423	0.131	0.144	0.170	0.120	0.002	0.045	0.067	2	A m
1140	5.486	-0.650	-0.546	-0.313	-0.075	-0.036	0.005	-0.015	1	B7 IV
1142	3.708	-0.739	-0.631	-0.460	-0.158	-0.043	-0.022	-0.042	3	B6 III
1144	5.650	-0.679	-0.578	-0.335	-0.110	-0.014	-0.004	-0.020	2	B8 V
1145	4.308	-0.841	-0.735	-0.458	-0.172	-0.061	-0.004	-0.023	3	B6 V
1148	4.644	0.158	0.177	0.032	0.039	0.015	0.045	0.072	2	A3 IV
1149	3.887	-0.696	-0.621	-0.429	-0.139	-0.029	0.016	0.020	2	B7 III
1151	5.774	-0.476	-0.389	-0.211	-0.068	-0.024	0.006	0.008	2	B8 V
1155 V	4.908	4.065	3.535	3.406	2.730	0.956	0.822	1.363	2	M2 IIa
1156	4.183	-0.735	-0.637	-0.435	-0.078	-0.023	0.003	0.041	3	B6 IVnn
1162	4.867	3.574	3.069	3.140	2.432	0.691	0.778	1.277	2	(gM2)
1165	2.874	-0.636	-0.543	-0.461	-0.149	-0.034	-0.021	-0.006	5	B7 III
1172	5.444	-0.606	-0.516	-0.349	-0.116	-0.032	-0.012	-0.028	3	B8 V
1178	3.637	-0.643	-0.558	-0.427	-0.132	-0.037	-0.009	-0.014	3	B8 III
1180 V	5.006	-0.770	-0.670	-0.424	-0.121	-0.027	-0.016	0.003	3	B8Pec
1183	6.213	-0.441	-0.338	-0.211	-0.115	-0.077	-0.013	-0.007	1	B9 V
1203 D	2.926	-1.077	-0.986	-0.531	0.047	0.104	0.074	0.150	2	B1 Ib
1204	4.946	-0.378	-0.306	-0.219	-0.107	-0.034	-0.022	-0.030	2	B9 V
1211/2	4.648	0.848	0.774	0.903	0.813	0.314	0.337	0.573	2	A1 V/G5III
1220 D	2.876	-1.618	-1.463	-0.900	-0.264	-0.066	-0.057	-0.092	2	B0.5 V
1228	4.074	-1.395	-1.279	-0.717	-0.073	0.029	0.070	0.112	2	O7
1231	3.382	3.392	2.925	3.009	2.340	0.645	0.812	1.250	2	M0 III
1239 V	3.752	-1.076	-0.948	-0.576	-0.168	-0.075	-0.035	-0.030	1	B3 V+A4 IV
1251	3.876	-0.026	0.022	0.079	0.026	-0.018	0.011	0.017	3	A1 V
1256	4.642	2.000	1.769	1.642	1.465	0.452	0.539	0.813	2	K0 III
1261	4.321	-0.083	-0.035	-0.170	-0.073	-0.033	0.012	-0.006	2	B9 V
1273	4.083	-0.918	-0.821	-0.482	-0.077	0.013	0.011	0.076	3	B3 Vp
1298	4.149	0.318	0.293	0.345	0.390	0.148	0.172	0.288	2	F2 II-III
1303	4.396	1.405	1.215	1.264	1.203	0.470	0.457	0.750	2	G0 Ib
1306	4.922	1.340	1.264	1.363	1.232	0.466	0.479	0.768	2	G5 Ib+A2
1311 D	5.024	1.067	0.957	1.055	1.018	0.375	0.377	0.632	2	(gG5)
1318 D	5.166	2.095	1.913	2.035	1.623	0.488	0.561	0.902	2	K2 III+G2 V
1319	6.404	0.140	0.108	0.317	0.453	0.158	0.217	0.350	1	F3 V
1320	4.324	-0.956	-0.821	-0.494	-0.103	-0.025	-0.001	-0.001	1	B3 V
1324	4.622	0.042	0.090	0.080	0.050	0.014	0.030	0.048	2	(A2)
1325	4.644	0.834	0.734	1.074	0.988	0.316	0.445	0.689	2	K1 V
1329	4.986	0.146	0.146	0.283	0.319	0.099	0.140	0.208	2	A m
1346	3.867	1.457	1.349	1.483	1.294	0.430	0.451	0.731	2	K0 III
1350	4.874	-0.893	-0.768	-0.438	-0.085	0.000	0.017	0.041	2	B6 III
1351	5.655	0.228	0.189	0.292	0.341	0.106	0.146	0.246	2	F0 V
1356	5.337	0.180	0.171	0.268	0.271	0.077	0.130	0.203	2	A9 V
1373	3.996	1.510	1.400	1.526	1.310	0.433	0.463	0.737	2	K1 III
1376	5.723	0.243	0.222	0.350	0.380	0.104	0.164	0.245	1	A m
1380	4.860	0.191	0.198	0.259	0.207	0.054	0.100	0.144	2	A7.5 V
1385	6.088	0.176	0.156	0.328	0.429	0.165	0.197	0.325	1	F4 Vn
1387	4.287	0.207	0.207	0.240	0.174	0.031	0.096	0.140	2	A7 V
1389	4.319	0.027	0.052	0.123	0.071	-0.009	0.039	0.049	2	A3 V
1392	4.383	0.334	0.285	0.275	0.294	0.103	0.170	0.264	2	A8 Vn
1394	4.564	0.282	0.243	0.277	0.276	0.096	0.153	0.239	2	F0 V
1396	4.917	1.497	1.288	1.403	1.280	0.450	0.456	0.726	2	G8 III
1408	5.965	0.180	0.161	0.313	0.386	0.131	0.159	0.274	1	F0 V
1409	3.780	1.624	1.498	1.614	1.386	0.444	0.475	0.742	2	K1 III
1411	4.087	1.408	1.306	1.440	1.268	0.418	0.454	0.710	6	G9 III
1412	3.473	0.233	0.222	0.236	0.207	0.029	0.085	0.167	7	A7 IVn
1427	4.839	0.201	0.194	0.256	0.195	0.046	0.100	0.134	2	A6 Vn
1437	5.223	2.575	2.306	2.397	1.898	0.582	0.617	0.974	2	K3 II-III
1444	4.764	0.191	0.178	0.268	0.273	0.073	0.104	0.178	2	A8 Vn
1454	4.524	1.703	1.605	1.686	1.559	0.614	0.584	0.935	2	K4 III+A3 V
1457	1.332	3.302	2.883	2.964	2.289	0.617	0.797	1.246	2	K5 III
1458	4.304	0.157	0.146	0.235	0.206	0.058	0.088	0.146	2	A m
1463	3.901	-1.505	-1.331	-0.825	-0.272	-0.080	-0.077	-0.124	2	B2 III
1473	4.328	0.183	0.182	0.228	0.161	0.025	0.073	0.097	2	A6 Vn
1479	4.720	0.200	0.203	0.256	0.192	0.039	0.078	0.099	2	A5 Vn
1481 D	4.123	1.736	1.616	1.781	1.463	0.460	0.530	0.843	2	K2 III
1496 V	4.718	3.507	3.006	2.950	2.321	0.772	0.661	1.248	2	(gM4)
1497	4.260	-1.056	-0.921	-0.510	-0.153	-0.051	-0.061	-0.084	2	B3 V
1520	3.996	-1.072	-0.941	-0.610	-0.197	-0.071	-0.058	-0.082	2	B5 IV
1542	4.342	-1.374	-1.240	-0.701	-0.061	0.050	0.063	0.107	2	O9.5 Ia
1543	3.302	0.112	0.094	0.336	0.518	0.205	0.228	0.380	2	F6 V
1544	4.374	-0.009	0.024	0.000	0.006	-0.008	0.019	0.022	2	A0 V
1547	5.152	0.220	0.205	0.280	0.263	0.080	0.112	0.169	3	(dA5n)
1552	3.666	-1.406	-1.245	-0.793	-0.251	-0.084	-0.052	-0.082	2	B2 III
1560	4.423	0.359	0.308	0.269	0.283	0.091	0.138	0.216	2	A9 IV
1567 V	3.703	-1.406	-1.242	-0.796	-0.249	-0.074	-0.079	-0.102	2	B2 III
1568 D	4.497	-0.035	0.008	-0.042	-0.026	-0.003	-0.008	0.003	2	A1 V
1570	4.694	0.044	0.086	0.185	0.117	0.014	0.009	0.028	2	A0 V
1577	3.096	3.072	2.760	2.831	2.250	0.665	0.721	1.125	2	K3 II

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
1580	4.404	2.027	1.813	1.962	1.601	0.506	0.550	0.877	2	K2 III
1592 D	4.956	-0.108	-0.049	0.096	0.041	-0.010	0.009	0.010	2	A0 V
1601	4.820	2.705	2.476	2.511	2.020	0.635	0.655	1.026	2	K2 II
1603	4.247	1.343	1.122	1.166	1.146	0.445	0.408	0.671	2	G0 Ib
1605 V	3.136	1.100	0.848	0.389	0.526	0.307	0.284	0.483	7	F0 Iap
1611	4.855	0.391	0.349	0.288	0.300	0.113	0.138	0.228	2	F0 IV
1612 V	4.132	1.030	1.065	1.316	1.410	0.567	0.704	1.121	3	K5 II+B
1617	4.793	-1.292	-1.136	-0.691	-0.233	-0.070	-0.072	-0.119	2	B2 V
1620	4.668	0.244(	0.25)	0.262	0.199	0.053	0.088	0.125	1	A7 V
1621	4.896	-0.330	-0.254	-0.134	-0.067	-0.025	-0.017	-0.036	2	B9 V
1637	5.046	0.099	0.094	0.265	0.374	0.150	0.153	0.280	2	F0 V
1638	4.676	-0.252	-0.217	-0.224	-0.100	-0.064	0.030	0.012	2	B9p (Si)
1641	3.147	-1.215	-1.058	-0.648	-0.242	-0.091	-0.050	-0.105	2	B3 V
1657	5.095	-0.420	-0.336	-0.169	-0.096	-0.057	-0.005	-0.029	2	(B9)
1666	2.839	0.214(	0.19)	0.226	0.164	0.045	0.043	0.110	2	A3 III
1676	4.885	0.403	0.363	0.346	0.351	0.129	0.191	0.277	2	F2 IV
1679	4.241	-1.518	-1.359	-0.859	-0.259	-0.078	-0.062	-0.095	2	B2 IV
1689	4.875	0.138	0.160	0.265	0.249	0.070	0.088	0.147	2	A m
1696	4.421	-0.767	-0.663	-0.381	-0.128	-0.050	-0.043	-0.067	2	B8 V
1698 D	4.740	2.061	1.915	2.017	1.671	0.495	0.555	0.863	2	K3 III
1702	3.266	-0.731	-0.631	-0.411	-0.163	-0.062	-0.044	-0.060	2	B9 III(p)
1705 D	4.344	-0.669	-0.558	-0.411	-0.145	-0.044	-0.041	-0.047	2	B8 V
1708	0.242	0.967	0.860	0.993	1.007	0.357	0.382	0.615	2	G8 III:+F
1713	0.171	-1.019	-0.925	-0.653	-0.108	0.023	0.012	0.035	4	B8 Ia
1726	4.896	2.286(	2.00)	2.156	1.767	0.527	0.642	0.994	2	K3 III
1729	4.859	0.403	0.364	0.608	0.731	0.268	0.314	0.511	3	G0 V
1735	3.569	-0.867	-0.737	-0.494	-0.170	-0.066	-0.056	-0.071	2	B5 III
1756	4.247	-1.741	-1.572	-0.977	-0.329	-0.094	-0.107	-0.165	2	B0.5 IV
1765	4.686	-1.363	-1.203	-0.747	-0.228	-0.065	-0.088	-0.128	2	B2 IV
1770 D	4.971	-1.471	-1.317	-0.789	-0.229	-0.059	-0.055	-0.084	3	B1 V
1781	5.654	-1.541	-1.372	-0.831	-0.272	-0.091	-0.096	-0.143	2	B2 V
1784	4.354	1.337	1.187	1.368	1.231	0.426	0.438	0.712	2	G8 III
1788 DV	3.323	-1.584	-1.428	-0.895	-0.272	-0.071	-0.053	-0.083	3	B0.5 V
1789	4.933	-1.552	-1.383	-0.877	-0.291	-0.086	-0.071	-0.122	2	B1 V:pe
1790	1.589	-1.511	-1.356	-0.882	-0.305	-0.101	-0.099	-0.149	2	B2 III
1791	1.650	-0.876	-0.768	-0.521	-0.176	-0.064	-0.056	-0.062	2	B7 III
1810	4.838	-1.343	-1.200	-0.717	-0.221	-0.049	-0.073	-0.111	2	B3 V
1811 D	4.542	-1.594	-1.410	-0.870	-0.280	-0.086	-0.086	-0.131	2	B2 IV
1829	2.992	1.033	0.852	1.009	1.024	0.372	0.367	0.615	2	G5 III
1839 D	4.188	-1.050	-0.906	-0.529	-0.189	-0.080	-0.056	-0.089	2	B5 IV
1843	4.788	-0.554	-0.507	-0.222	0.283	0.215	0.112	0.250	2	B5 Iab
1845 V	4.982	4.519	3.849	3.663	2.982	1.123	0.875	1.586	1	M2 Ib
1852 V	2.180	-1.748	-1.579	-0.976	-0.297	-0.081	-0.103	-0.137	2	O9.5 II
1855	4.570	-1.801	-1.610	-1.008	-0.339	-0.099	-0.099	-0.164	87	B0 V
1861	5.299	-1.567	-1.405	-0.856	-0.274	-0.084	-0.083	-0.090	2	B1 V
1865	2.645	0.801	0.665	0.189	0.209	0.074	0.130	0.225	2	F0 Ib
1868 V	5.326	-1.526	-1.369	-0.823	-0.261	-0.089	-0.069	-0.076	2	B1 V
1876	4.379	-1.577	-1.407	-0.844	-0.219	-0.036	-0.046	-0.072	2	B0 IV
1879/80	3.380	-1.685	-1.525	-0.934	-0.281	-0.078	-0.037	-0.055	2	O8/B0.5 V
1887	4.718	-1.732	-1.566	-0.975	-0.330	-0.097	-0.104	-0.178	2	B0.5 V
1892 D	4.555	-1.586	-1.419	-0.852	-0.268	-0.077	-0.075	-0.109	2	B2 III
1893-6	4.616	-1.353	-1.212	-0.670	-0.032	0.074	0.044	0.256	2	(Trap)
1897	5.075	-1.529	-1.357	-0.790	-0.176	-0.025	0.028	0.053	2	O9.5 Vp
1899 D	2.757	-1.790	-1.606	-1.001	-0.332	-0.100	-0.089	-0.115	2	O9 III
1901	5.333	0.349	0.315	0.280	0.295	0.107	0.138	0.240	2	(gF0)

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
1903 V	1.693	-1.668	-1.507	-0.934	-0.255	-0.051	-0.055	-0.081	2	B0 Ia
1907	4.328	1.277	1.092	1.314	1.198	0.428	0.461	0.758	2	G8 III-IV
1908	6.348	3.432	2.872	2.959	2.301	0.680	0.783	1.250	1	K4 II
1910	2.954	-1.288	-1.153	-0.811	-0.265	-0.062	-0.067	-0.018	2	B2 III:p
1931 D	3.721	-1.702	-1.519	-0.935	-0.291	-0.078	-0.078	-0.125	2	O9.5 V
1934	4.567	-1.263	-1.123	-0.699	-0.169	-0.016	-0.028	-0.008	2	B3 IIIe
1937	4.818	0.152	0.162	0.223	0.171	0.047	0.062	0.099	2	A4 IV
1946 D	4.838	-1.135	-1.006	-0.609	-0.189	-0.050	-0.038	-0.063	2	B3 IV
1948/9	1.743	-1.736	-1.570	-0.973	-0.292	-0.073	-0.060	-0.092	2	O9.5 Ib
1963	5.210	1.972	1.718	1.898	1.565	0.498	0.574	0.889	2	K1 III
1995	4.759	1.376	1.214	1.392	1.242	0.433	0.438	0.706	2	G8 III
1998	3.600	0.054	0.084	0.180	0.119	0.004	0.009	0.025	2	A3 V
2004	2.048	-1.557	-1.387	-0.851	-0.219	-0.043	-0.060	-0.068	2	B0.5 Ia
2010	4.883	-0.360	-0.276	-0.141	-0.080	-0.041	-0.030	-0.055	2	B9 IV
2011	5.208	3.547	3.049	3.084	2.415	0.700	0.781	1.278	2	(gM1)
2012	4.261	1.920	1.765	1.898	1.550	0.490	0.510	0.835	2	K0 III
2018	6.703	3.903	3.370	3.256	2.554	0.841	0.748	1.375	2	M3 III
2029	5.004	0.068	0.108	0.128	0.063	0.010	0.020	0.018	2	A2p?
2034	4.598	-0.046	0.005	-0.025	-0.032	-0.021	0.007	0.009	2	B9.5 V
2035	3.995	1.411	1.176	1.379	1.260	0.452	0.469	0.757	2	G8 III
2047	4.537	0.289	0.256	0.542	0.701	0.268	0.297	0.490	2	G0 V
2061 V	1.043	4.038	3.458	3.272	2.684	1.010	0.775	1.404	1	M1-M2 Iab
2077	3.966	1.554	1.405	1.579	1.339	0.444	0.471	0.758	2	K0 III
2084	4.804	-1.450(-1.29)		-0.762	-0.150	0.012	-0.021	-0.021	2	B1 Ib
2085	3.815	0.138	0.125	0.279	0.378	0.145	0.148	0.252	2	F0 V
2088 V	1.925	0.046	0.073	0.117	0.053	-0.010	0.007	-0.009	2	A2 V
2091 V	4.738	3.708	3.145	3.029	2.405	0.906	0.675	1.320	2	M3.5 II
2095 D	2.590	-0.364(-0.30)		-0.272	-0.124	-0.073	0.010	-0.024	2	B9.5p V
2113	4.853	2.253	1.913	2.057	1.653	0.520	0.605	0.956	2	K2 III
2124 D	4.158	0.191	0.203	0.244	0.211	0.059	0.077	0.134	3	A m
2128	4.953	-1.077	-0.928	-0.565	-0.185	-0.060	-0.042	-0.054	2	B5 IV
2134	4.365	0.982(	0.94)	1.099	1.055	0.352	0.405	0.653	2	(gG5)
2135	4.679	-0.852	-0.795	-0.348	0.234	0.216	0.129	0.251	2	B2 Ia
2148	5.003	0.594	0.415	0.182	0.170	0.128	0.127	0.313	2	A2p
2155	4.681	0.014	0.063	0.114	0.060	0.016	-0.004	0.007	2	A1 V
2159	4.398	-1.169	-1.018	-0.610	-0.223	-0.081	-0.054	-0.085	2	B3 V
2198	4.953	-1.051	-0.929	-0.568	-0.202	-0.069	-0.050	-0.067	2	B5 V
2199	4.454	-1.189	-1.041	-0.651	-0.233	-0.079	-0.066	-0.072	2	B3 V
2209	4.757	-0.070	-0.027	0.040	0.011	-0.026	-0.005	-0.006	2	A0 V
2216 V	3.602	3.116	2.735	2.752	2.254	0.766	0.679	1.247	3	M3 III
2219	4.562	1.555	1.377	1.547	1.327	0.451	0.477	0.783	2	G8 III
2227	4.294	2.541	2.255	2.365	1.887	0.579	0.615	0.979	2	K3 III
2238	4.516	-0.036	0.003	0.087	0.033	-0.012	0.011	0.026	2	A2 V
2240	6.378	-0.278	-0.277	-0.030	0.423	0.283	0.251	0.424	2	B3 Ia
2244	5.001	-0.449	-0.370	-0.302	-0.122	-0.052	-0.017	-0.027	2	B8 V
2286	3.320	3.673	3.101	3.038	2.390	0.819	0.664	1.256	2	M3 III
2294	1.955	-1.649	-1.471	-0.929	-0.313	-0.094	-0.086	-0.141	2	B1 II-III
2298/9	4.339	0.216	0.184	0.257	0.265	0.094	0.114	0.167	2	A5 IV /dF4
2308 V	6.965	5.997	5.382	5.193	4.098	1.223	1.186	1.850	1	C6,2
2343	4.165	-0.869	-0.745	-0.510	-0.173	-0.068	-0.026	-0.041	1	B7 IV
2344	5.031	-1.331	-1.173	-0.713	-0.242	-0.067	-0.071	-0.109	2	B2 V
2356-8	3.719	-1.298	-1.164	-0.721	-0.227	-0.079	-0.065	-0.015	2	B3 Vpe
2385	4.533	-0.156	-0.149	-0.328	-0.021	0.030	0.025	0.075	2	A0 Ib
2392	6.495	1.476	1.424	1.633	1.510	0.509	0.470	0.757	2	(K0p)(BaII)
2421	1.956	0.055	0.099	0.052	0.010	-0.017	0.004	0.008	2	A0 IV

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
2427	5.116	2.282	2.071	2.197	1.751	0.532	0.586	0.912	2	K3 II-III
2429	4.235	1.718	1.633	1.790	1.434	0.433	0.516	0.808	2	K1 IV
2443	4.718	1.945	1.772	1.900	1.581	0.508	0.524	0.843	2	K1 II-III
2450	5.216	3.049	2.721	2.775	2.185	0.679	0.715	1.124	2	K3 III
2456 D	4.640	-1.774	-1.588	-0.978	-0.317	-0.082	-0.085	-0.128	2	O7
2467	6.395	-1.490	-1.338	-0.760	-0.131	-0.000	0.021	0.030	1	O6
2470 D	4.895	0.019	0.061	0.160	0.104	0.023	0.024	0.046	1	(A2n)
2473	3.356	2.615	2.375	2.401	2.018	0.666	0.620	0.948	1	G8 Ib
2478	4.812	2.082	1.868	1.998	1.616	0.508	0.559	0.866	1	K1 III
2484	3.541	0.231	0.202	0.366	0.498	0.200	0.203	0.383	1	F5 IV
2491	-1.422	-0.139	-0.088	0.044	-0.008	-0.045	-0.018	-0.034	2	A1 V
2506	4.745	1.901	1.739	1.845	1.539	0.496	0.507	0.807	2	K0 III
2527	4.957	2.765	2.472	2.605	1.990	0.529	0.720	1.099	2	K4 III
2540	3.675	0.244	0.243	0.172	0.117	0.026	0.064	0.110	2	A3 III
2560 D	4.583	1.064	0.989	1.138	1.078	0.375	0.427	0.671	2	G5 III-IV
2564 D	4.749	0.156	0.155	0.296	0.353	0.148	0.178	0.289	2	F0 Vp
2571	4.779	-1.622	-1.434	-0.896	-0.301	-0.074	-0.088	-0.138	2	B1 IV
2574	4.474	2.953	2.557	2.701	2.067	0.585	0.732	1.155	2	K4 III
2585	4.941	0.011	0.057	0.077	0.009	0.028	0.020	0.017	2	A2 V
2590 D	4.743	0.176	0.161	0.304	0.407	0.172	0.193	0.324	2	(gF2)
2596	4.379	-1.129	-0.991	-0.650	-0.125	0.001	-0.014	0.007	2	B3 II
2648	4.969	-1.561	-1.390	-0.879	-0.275	-0.073	-0.069	-0.091	2	B1 V
2650 V	4.096	1.132	0.937	0.924	0.942	0.325	0.389	0.611	1	F7-G3 Ib
2657	4.106	-0.854	-0.748	-0.504	-0.165	-0.053	-0.030	-0.051	2	B8 II
2697	4.704	2.474	2.221	2.302	1.832	0.544	0.596	0.938	2	K2 III
2701	5.164	1.505	1.331	1.507	1.321	0.430	0.475	0.757	2	K0 III
2714	4.181	0.059	0.077	-0.053	-0.041	-0.043	0.037	0.049	2	A0 IV
2751	5.029	0.218	0.211	0.094	0.077	0.013	0.047	0.094	2	A3 III-IV
2763	3.604	0.135	0.153	0.198	0.127	0.011	0.033	0.066	2	A3 V
2777 D	3.629	0.245(	0.24)	0.281	0.365	0.141	0.191	0.322	3	F0 IV
2812	4.952	-0.675	-0.575	-0.379	-0.110	-0.020	0.008	0.019	2	(B8)
2818	4.614	-0.037	-0.003	0.011	-0.033	-0.021	-0.021	-0.010	2	A1 IV
2821	4.050	1.560	1.414	1.565	1.334	0.428	0.465	0.771	2	K0 III
2845	2.862	-0.554	-0.430	-0.301	-0.130	-0.053	-0.058	-0.064	3	B8 V
2852	4.262	0.065	0.052	0.233	0.359	0.144	0.160	0.279	39	F0 V
2854	4.690	2.717	2.437	2.530	2.051	0.600	0.710	1.106	3	K3 III
2864	4.860	2.459	2.230	2.268	1.827	0.567	0.595	0.931	3	K2 III
2890/1	1.598	-0.088	-0.048	0.076	0.035	-0.010	0.014	0.023	16	A1 V+A m
2905	4.485	3.313	2.902	2.976	2.310	0.624	0.776	1.232	3	M0 III
2930	4.990	0.314	0.252	0.359	0.474	0.188	0.201	0.344	3	F3 III
2943	0.461	0.186	0.164	0.353	0.482	0.196	0.202	0.341	3	F5 IV-V
2946	5.005	0.174	0.162	0.121	0.076	0.020	0.037	0.065	3	A3 III
2970	4.186	1.609	1.486	1.616	1.381	0.461	0.456	0.740	3	K0 III
2973	4.509	1.771(	1.61)	1.752	1.516	0.474	0.578	0.899	2	K1 III
2985 D	3.811	1.340	1.213	1.362	1.218	0.415	0.414	0.697	2	G8 III
2990	1.386	1.550	1.421	1.562	1.330	0.432	0.471	0.765	16	K0 III
3003	5.299	3.033	2.638	2.757	2.102	0.573	0.741	1.171	2	K5 III
3067	5.002	0.150	0.182	0.198	0.123	0.030	0.046	0.076	2	A4 V
3131	4.652	0.144	0.181	0.153	0.091	0.016	0.030	0.055	2	A3 V
3141	5.098	3.065	2.689	2.822	2.163	0.601	0.743	1.166	2	K4 III
3145	4.728	2.305	2.035	2.172	1.754	0.535	0.616	0.970	3	K2 III
3173	4.841	0.017	0.043	0.069	0.017	-0.018	0.005	-0.043	3	A2 V
3188	4.581	1.454	1.273	1.331	1.261	0.458	0.447	0.699	3	G2 Ib
3192	4.393	-1.091	-0.944	-0.601	-0.215	-0.067	-0.046	-0.091	3	B5 V
3211	4.962	1.356	1.263	1.405	1.240	0.402	0.454	0.707	3	K0 III
3249	3.948	3.047	2.687	2.812	2.181	0.621	0.744	1.158	69	K4 III
3275	4.692	3.268	2.869	2.966	2.298	0.633	0.797	1.216	3	K5 III
3314	3.908	-0.151	-0.079	0.029	-0.014	-0.033	-0.004	-0.013	4	A0 V
3323	3.587	1.107	0.952	1.100	1.080	0.384	0.386	0.636	3	G5 III
3403	4.931	2.063	1.847	1.997	1.626	0.486	0.572	0.907	3	K2 III
3410	4.155	-0.061(	0.01)	0.043	-0.001	-0.003	0.006	0.029	3	A0 V
3418	4.738	2.259	2.069	2.153	1.732	0.528	0.569	0.892	2	K2 III
3429	6.373	0.306	0.279	0.297	0.211	0.030	0.078	0.133	1	A6 III
3441	5.144	1.679	1.550	1.682	1.409	0.460	0.502	0.801	2	K1 III
3449	4.712	-0.043	-0.010	0.091	0.015	-0.020	0.021	0.020	2	A1 V
3454	4.277	-1.315	-1.161	-0.714	-0.246	-0.078	-0.069	-0.110	59	B3 V
3459	4.841	1.066	0.963	1.066	1.042	0.388	0.399	0.633	2	G2 Ib
3461	4.237	1.764	1.626	1.769	1.459	0.456	0.521	0.825	2	K0 III
3475	4.289	1.479	1.344	1.458	1.299	0.442	0.441	0.746	2	G8 II
3482 D	3.573	0.764	0.693	0.843	0.812	0.278	0.345	0.587	2	G0III-IV+dF7
3484	4.532	1.228	1.067	1.251	1.157	0.412	0.410	0.683	2	G8 III
3492	4.361	-0.036(	-0.04)	-0.008	-0.036	-0.021	0.001	0.003	3	A0 V
3547	3.377	1.519	1.385	1.528	1.321	0.449	0.453	0.737	2	K0 II-III
3569	3.228	0.114	0.130	0.252	0.248	0.059	0.102	0.173	2	A7 V
3572	4.321	0.248	0.262	0.270	0.193	0.046	0.079	0.101	2	A m
3576	5.152	3.455	2.959	2.899	2.280	0.703	0.688	1.233	2	M3 IIIb
3579	4.113	0.170	0.166	0.383	0.495	0.185	0.242	0.403	2	F5 V
3594	3.606	-0.003	0.035	-0.055	-0.038	-0.021	0.021	0.034	3	(B9n)
3612	4.802	1.578	1.409	1.514	1.383	0.486	0.456	0.745	3	G8 Ib-II
3616 D	4.953	0.185	0.162	0.399	0.552	0.202	0.270	0.447	3	F7 IV-V
3619	4.530	0.242	0.243	0.363	0.362	0.104	0.136	0.194	2	A m
3624	4.767	0.336	0.324	0.422	0.448	0.144	0.179	0.265	3	A7m
3662	4.872	0.137	0.146	0.251	0.229	0.060	0.091	0.156	3	A5 V
3665	3.912	-0.319	-0.236	-0.106	-0.074	-0.057	-0.018	-0.023	2	B9.5 Vp
3690 D	3.858	0.032	0.065	0.129	0.091	0.000	0.030	0.075	2	A2 V
3705	3.575	3.292	2.845	2.949	2.306	0.631	0.796	1.227	2	M0 III
3706	4.981	1.313	1.168	1.316	1.214	0.419	0.409	0.663	2	G8 III
3709	5.011	1.294	1.164	1.313	1.194	0.402	0.411	0.671	1	G8 III-IV
3731	4.759	2.216	2.011	2.163	1.710	0.476	0.606	0.937	1	K2 III
3748	2.383	2.895	2.589	2.726	2.116	0.598	0.710	1.084	1	K4 III
3751	4.659	2.991	2.676	2.755	2.190	0.637	0.717	1.100	2	K3 III
3757	3.749	0.269	0.223	0.310	0.384	0.137	0.167	0.289	2	F0 IV
3759	4.714	0.150	0.133	0.371	0.521	0.220	0.221	0.379	2	F6 V
3771	4.735	0.822	0.699	0.935	0.956	0.360	0.360	0.611	3	G4 IV
3773	4.750	3.323	2.909	2.996	2.314	0.629	0.770	1.229	2	K5 III
3775	3.305	0.192	0.165	0.365	0.549	0.230	0.223	0.413	2	F6 IV
3787	4.563	0.227(	0.21)	0.142	0.127	0.051	0.036	0.101	3	A3 III
3799	4.506	0.093(	0.10)	0.109	0.083	-0.014	-0.003	-0.031	1	A2 V
3800	4.763	1.221	1.106	1.254	1.170	0.408	0.417	0.690	4	G8 III
3809	5.037	1.453	1.294	1.458	1.301	0.446	0.466	0.754	2	K0 III
3815	5.601	0.763	0.753	1.015	0.967	0.319	0.408	0.641	2	G8 IV-V
3834	5.033	2.580	2.268	2.414	1.901	0.550	0.662	1.055	2	K3 III
3845	4.239	2.495	2.227	2.371	1.880	0.564	0.637	1.022	2	K3 III
3849	5.047	-1.064	-0.910	-0.547	-0.182	-0.064	-0.054	-0.082	2	B5 V
3852	3.667	0.482	0.446	0.547	0.613	0.217	0.242	0.405	2	A5 V+F8 III
3873	3.189	1.031	0.856	0.981	1.008	0.354	0.377	0.615	2	G0 II
3881	5.245	0.426	0.374	0.624	0.725	0.261	0.295	0.485	2	G1 V
3888	3.851	0.252	0.216	0.258	0.308	0.118	0.153	0.270	2	F2 IV
3894 D	4.594	0.094	0.129	0.119	0.038	0.006	0.011	0.030	2	(A3s)
3903	4.338	1.320	1.200	1.341	1.219	0.420	0.422	0.681	2	G8 III

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
3905	4.228	2.342	2.184	2.268	1.753	0.464	0.620	0.949	2	K2 III
3950	5.115	3.537	3.080	3.093	2.401	0.713	0.761	1.251	2	M2 III
3970	4.549	-0.510	-0.395	-0.276	-0.128	-0.033	-0.044	-0.064	3	B8 V
3974	4.538	0.126	0.159	0.261	0.247	0.066	0.071	0.118	3	A7 V
3975	3.550	-0.286	-0.270	-0.407	-0.097	-0.004	0.040	0.055	3	A0 Ib
3980	4.761	2.981	2.637	2.748	2.126	0.586	0.751	1.150	3	K4 III
3981	4.478	-0.129	-0.061	-0.100	-0.044	-0.008	-0.022	-0.057	3	A0 III
3982	1.381	-0.689	-0.585	-0.399	-0.160	-0.055	-0.043	-0.070	3	B7 V
3994	3.846	1.669	1.564	1.665	1.376	0.443	0.476	0.760	3	K0 III
4031	3.535	0.451	0.385	0.314	0.354	0.138	0.170	0.280	3	F0 III
4033	3.442	0.079	0.083	0.107	0.042	-0.012	-0.004	0.013	2	A2 IV
4039	5.901	0.182	0.113	0.346	0.570	0.219	0.219	0.397	2	(dF3)
4054	4.902	0.145	0.151	0.379	0.512	0.195	0.217	0.361	2	F6 IV
4057/8	2.302	1.835	1.603	1.771	1.513	0.497	0.519	0.841	3	K0 III/G7 III
4069	3.488	3.229	2.823	2.914	2.316	0.663	0.780	1.249	3	M0 III
4072	4.971	-0.288	-0.231	-0.152	-0.066	-0.035	-0.008	-0.018	3	A0p
4090	4.801	0.293	0.322	0.320	0.301	0.097	0.155	0.225	2	F0 V
4092	5.994	3.288	2.868	2.915	2.240	0.614	0.762	1.220	2	M0 III
4094	4.204	3.132	2.773	2.847	2.203	0.602	0.769	1.183	2	K4 III
4100 D	4.401	1.226	1.139	1.309	1.186	0.407	0.436	0.702	2	G8 III-IV
4112	4.946	0.160	0.154	0.426	0.603	0.253	0.268	0.450	2	F8 V
4119	5.074	-0.924	(-0.80)	-0.450	-0.169	-0.040	-0.050	-0.051	2	B6 V
4132	4.765	0.126	0.168	0.257	0.261	0.084	0.097	0.170	2	A7 IV
4133	3.812	-1.532	-1.366	-0.868	-0.222	-0.036	-0.046	-0.048	2	B1 Ib
4163 V	5.626	(12+)	8.960	7.960	5.311	1.477	1.229	1.870	1	C7,3
4166	4.864	1.107	0.949	1.040	1.039	0.371	0.363	0.605	2	G3 II :
4232	3.432	2.274	2.050	2.187	1.727	0.518	0.583	0.941	2	K2 III
4247	4.060	1.668	1.518	1.693	1.404	0.452	0.485	0.793	3	K0 III-IV
4248	4.693	-0.180	-0.117	-0.048	-0.064	-0.034	-0.018	-0.040	2	A1 V
4259/60	4.348	0.042	(0.04)	0.004	0.002	-0.011	0.009	0.015	2	A1 V
4287	4.358	1.801	1.655	1.783	1.470	0.458	0.515	0.814	2	K0 III
4295	2.358	-0.068	-0.007	0.041	-0.014	-0.027	-0.023	-0.027	2	A1 V
4299	5.166	3.474	3.036	3.089	2.404	0.679	0.777	1.252	3	K5 III
4300	4.443	0.011	0.058	0.166	0.078	-0.001	0.001	0.001	2	A1 V
4301	2.067	1.709	1.566	1.683	1.431	0.482	0.497	0.797	3	K0 III
4310	4.679	0.220	0.205	0.316	0.389	0.148	0.178	0.295	4	F2 III-IV
4335	3.311	1.993	1.815	1.958	1.579	0.489	0.541	0.861	3	K1 III
4357	2.610	0.164	0.177	0.223	0.155	0.028	0.058	0.087	3	A4 V
4359	3.350	0.008	0.045	0.030	-0.019	-0.031	0.005	0.010	3	A2 V
4362	5.009	3.492	3.031	2.977	2.382	0.799	0.682	1.254	3	M3 III
4368	4.514	0.323	0.302	0.246	0.238	0.091	0.111	0.163	3	A7 III-IV
4371	5.574	3.223	2.814	2.888	2.212	0.603	0.751	1.195	1	M0 III
4374/5	3.899	0.224	0.180	0.488	0.664	0.264	0.273	0.479	2	G0 V
4377	3.838	2.679	2.375	2.494	1.998	0.601	0.673	1.060	1	K3 III
4380	4.818	0.019	0.064	0.196	0.130	0.024	0.034	0.072	2	A2 V
4382	3.870	1.839	1.614	1.758	1.481	0.495	0.513	0.851	2	G8 III-IV
4386	4.085	-0.307	-0.237	-0.148	-0.085	-0.042	-0.004	-0.003	2	B9 V
4392	5.198	1.523	1.374	1.495	1.321	0.448	0.438	0.708	3	G8 II
4399 D	4.039	0.235	0.210	0.376	0.473	0.196	0.202	0.321	2	F2 IV
4405 D	4.142	0.168	0.176	0.275	0.240	0.064	0.101	0.162	2	A5 V
4434	4.270	3.534	3.040	3.104	2.417	0.680	0.795	1.279	3	M0 III
4456 D	5.913	-1.185	-1.033	-0.605	-0.213	-0.076	-0.071	-0.105	53	B3 V
4468	4.660	-0.354	-0.268	-0.180	-0.101	-0.041	-0.041	-0.060	3	B9 V
4471	4.556	1.444	1.282	1.447	1.287	0.433	0.456	0.759	3	G9 III
4496	5.489	0.534	(0.54)	0.834	0.863	0.299	0.387	0.615	5	G8 V

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
4514	4.920	1.400	1.284	1.429	1.284	0.431	0.415	0.698	2	G8 III
4517	4.415	3.356	2.794	2.839	2.242	0.668	0.698	1.151	2	M1 III
4518	3.999	2.075	1.841	1.984	1.614	0.514	0.551	0.895	2	K0 III
4527 D	4.644	0.613	0.563	0.689	0.628	0.230	0.263	0.469	3	G5 III-IV+A
4534	2.124	0.057	0.083	0.211	0.144	0.031	0.029	0.063	10	A3 V
4540	3.700	0.323	0.272	0.527	0.650	0.246	0.283	0.462	4	F8 V
4550	6.626	0.483	0.395	0.776	0.875	0.325	0.382	0.644	49	G8 Vp
4554	2.412	-0.024	0.020	0.052	0.009	-0.019	-0.029	-0.028	2	A0 V
4589	4.709	0.256	0.261	0.224	0.130	0.060	0.039	0.079	2	A4 V
4608	4.347	1.275	1.131	1.339	1.271	0.443	0.436	0.712	3	G8 III
4660	3.339	0.082	0.111	0.182	0.109	0.010	0.029	0.058	3	A3 V
4662	2.576	-0.662	-0.573	-0.396	-0.160	-0.051	-0.032	-0.038	3	B8 III
4689	3.903	0.048	(0.07)	0.098	0.008	-0.014	0.029	0.045	3	A2 V
4695	5.265	2.118	1.851	1.960	1.577	0.496	0.570	0.901	3	K1 III
4697	4.971	1.539	1.342	1.506	1.322	0.458	0.451	0.754	3	G8 III
4707	4.939	0.572	0.547	0.654	0.571	0.218	0.257	0.441	3	A5+G5 III
4716	4.959	1.243	1.086	1.212	1.147	0.402	0.400	0.658	3	G7 III
4737	4.615	1.991	1.861	1.981	1.581	0.474	0.534	0.824	4	K1 III-IV
4757	2.954	-0.256	-0.181	-0.080	-0.059	-0.040	-0.028	-0.033	3	B9.5 V:n
4775	4.379	0.089	0.095	0.301	0.427	0.173	0.183	0.288	3	F0 IV
4785	4.408	0.253	0.226	0.517	0.661	0.265	0.280	0.479	5	G0 V
4787	3.849	-1.038	-0.941	-0.567	-0.180	-0.052	-0.044	-0.013	3	B5 IIIe
4789	4.790	-0.073	-0.013	0.017	-0.017	-0.018	0.005	-0.010	3	A0 III
4813	4.955	2.384	2.214	2.275	1.767	0.512	0.588	0.907	3	K2 III
4825/6	2.863	0.035	(0.06)	0.241	0.410	0.154	0.173	0.291	4	F0 V
4828	4.897	0.008	0.065	0.179	0.102	0.012	0.019	0.031	3	A1 V
4845	6.080	0.132	0.092	0.421	0.615	0.224	0.261	0.444	2	G0 V
4846 V	5.579	(12+)	11.460	9.970	6.798	1.908	1.013	1.680	1	C5,4
4883 *	5.092	0.572	0.479	0.659	0.800	0.348	0.326	0.531	3	G0 III
4902	5.126	2.935	2.634	2.688	2.251	0.761	0.693	1.262	3	M3 III
4905	1.790	-0.013	0.018	-0.036	-0.042	-0.049	0.008	0.002	3	A0p
4910	3.741	3.472	2.915	2.872	2.255	0.739	0.636	1.207	3	M3 III
4914	5.679	-0.002	0.005	0.227	0.337	0.127	0.145	0.260	3	F0 V
4915 *V	3.195	-0.694	-0.633	-0.420	-0.154	-0.165	-0.070	-0.050	1	B9.5p:
4920	5.192	3.386	2.946	3.030	2.337	0.634	0.778	1.242	3	M1 III
4931 D	5.007	0.145	0.137	0.322	0.425	0.172	0.179	0.296	3	F2 V
4932	3.079	1.353	1.233	1.369	1.211	0.411	0.431	0.694	3	G9 II-III
4954	5.224	3.193	2.812	2.896	2.229	0.599	0.778	1.212	3	K5 III
4963 D	4.406	-0.042	0.015	-0.014	-0.024	-0.011	0.015	0.038	3	A1 V
4983	4.364	0.258	0.255	0.528	0.666	0.268	0.294	0.461	4	G0 V
5017	4.787	0.406	0.393	0.390	0.375	0.114	0.181	0.243	3	F0 II-IIIp
5019	4.898	0.577	0.542	0.824	0.856	0.303	0.351	0.573	3	G6 V
5054/5	2.071	-0.028	0.016	0.113	0.039	-0.019	0.017	0.022	3	A2 V+A2 V
5056 V	0.939	-1.619	-1.448	-0.908	-0.317	-0.112	-0.087	-0.135	3	B1 V
5062	4.032	0.108	0.134	0.227	0.200	0.045	0.066	0.127	3	A5 V
5068	5.009	1.879	1.783	1.857	1.524	0.472	0.491	0.783	3	K1 III
5072	5.171	0.592	0.537	0.814	0.888	0.326	0.343	0.565	3	G5 V
5095	5.121	3.610	3.121	3.095	2.435	0.735	0.736	1.256	3	M2 III
5105	4.937	-0.113	-0.104	0.044	0.008	-0.038	0.070	0.067	3	A2p
5107	3.379	0.077	0.103	0.214	0.133	0.041	0.058	0.090	3	A3 Vn
5110	5.067	0.255	0.212	0.335	0.428	0.182	0.187	0.355	3	F2 IV
5112	4.691	0.211	0.209	0.220	0.163	0.053	0.049	0.099	3	A4 V
5127 D	4.809	0.224	0.201	0.238	0.260	0.099	0.113	0.210	3	A7 III
5154	5.056	3.541	3.066	3.101	2.435	0.746	0.745	1.264	3	M2 III
5185	4.602	0.208	0.177	0.416	0.559	0.216	0.235	0.393	3	F7 V

TABLE 6 EIGHT-COLOR PHOTOMETRY OF BRIGHT STARS

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
5191	1.828	-1.195	-1.042	-0.612	-0.218	-0.075	-0.090	-0.138	3	B3 V
5200	4.458	3.240	2.834	2.920	2.256	0.598	0.774	1.206	3	K5 III
5219	5.133	3.714	3.160	3.110	2.449	0.798	0.687	1.259	3	K5 III
5226	4.939	3.529	2.979	2.938	2.295	0.770	0.637	1.231	3	(gM3)
5235	2.806	0.475(	0.46)	0.615	0.705	0.249	0.292	0.480	9	G0 IV
5264	4.232	0.249	0.226	0.193	0.105	0.041	0.043	0.097	3	A3 III
5291	3.650	-0.182	-0.128	-0.130	-0.090	-0.042	-0.013	-0.011	3	A0 III
5299	5.528	3.558	2.873	2.669	2.073	0.902	0.499	1.260	3	M4-4.5 III
5304	4.907	0.278	0.238	0.441	0.615	0.259	0.243	0.425	3	F8 IV
5313	5.004	-0.821	-0.696	-0.404	-0.162	-0.071	-0.031	-0.054	5	B9p (Si)
5315	4.535	2.588	2.258	2.411	1.888	0.560	0.651	1.033	3	K3 III
5328/9	4.433	0.195	0.194	0.264	0.239	0.076	0.110	0.173	2	F2 V/A7 IV
5338	4.194	0.245	0.208	0.429	0.590	0.254	0.244	0.407	3	F7 III-IV
5340	0.242	2.329	2.001	2.129	1.704	0.534	0.605	0.966	5	K2 IIIp
5350	4.802	0.121	0.140	0.277	0.253	0.073	0.099	0.153	3	A7 V
5351	4.181	0.030	0.080	0.173	0.113	0.018	0.006	0.038	3	A0p
5359	4.541	0.150	0.159	0.236	0.161	0.033	0.052	0.078	3	A8m
5361	5.046	1.664	1.518	1.674	1.414	0.453	0.478	0.771	3	K0 III
5370	5.162	2.294	2.133	2.240	1.731	0.488	0.607	0.935	3	K3 III
5384	6.391	0.315	0.273	0.589	0.734	0.291	0.296	0.499	2	(dG3)
5404	4.165	0.189	0.156	0.407	0.574	0.229	0.249	0.412	3	F7 V
5409	4.969	0.571	0.507	0.710	0.810	0.319	0.334	0.546	3	G2 III
5429	3.927	2.467	2.245	2.368	1.824	0.533	0.641	1.002	3	K3 III
5430	4.612	2.887	2.580	2.704	2.087	0.594	0.705	1.099	3	K4 III
5435	3.098	0.243	0.255	0.283	0.228	0.073	0.078	0.139	3	A7 III
5447	4.568	-0.032	-0.021	0.211	0.385	0.169	0.186	0.331	3	F2 V
5475/6	4.538	-0.594	-0.501	-0.277	-0.076	-0.052	0.024	0.048	3	B9 IIIp/A m
5477/8	3.801	0.033	0.088	0.139	0.070	0.000	0.016	0.032	2	A2 III
5487	3.958	0.092	0.080	0.273	0.423	0.184	0.209	0.322	2	F3 IV
5490 V	5.171	3.581	3.079	3.062	2.455	0.785	0.722	1.278	6	(gM3)
5502	4.822	1.405	1.279	1.422	1.270	0.430	0.440	0.710	3	K0 III
5505/6	2.621	1.350	1.298	1.403	1.224	0.433	0.473	0.743	3	K0 II-III+A
5511	3.722	-0.101	-0.050	-0.023	-0.008	-0.015	0.000	0.010	3	A0 V
5531	2.793	0.170	0.170	0.243	0.185	0.041	0.063	0.092	2	A3 V
5544 D	4.746	0.588	0.547	0.877	0.908	0.295	0.409	0.665	3	G8 V
5563	2.478	3.014	2.654	2.794	2.158	0.603	0.730	1.138	3	K4 III
5570	4.549	0.163	0.151	0.270	0.350	0.137	0.159	0.273	3	F0 IV
5586 V	4.940	-0.210	-0.155	-0.085	-0.023	-0.005	0.021	0.044	3	(A0)
5589 V	4.940	3.814	2.934	2.766	2.151	0.928	0.514	1.277	1	M5 III
5600	5.220	3.109	2.784	2.867	2.226	0.606	0.776	1.198	2	K4 III
5601	4.588	1.625	1.441	1.609	1.389	0.469	0.480	0.778	2	K0 III
5602	3.724	1.418	1.280	1.367	1.246	0.431	0.424	0.703	2	G8 III
5616	4.820	2.341	2.091	2.214	1.775	0.536	0.606	0.965	2	K2 III
5634	5.011	0.084	0.083	0.320	0.499	0.204	0.214	0.376	2	F5 V
5652	4.563	-0.664	-0.578	-0.349	-0.124	-0.050	-0.001	-0.019	2	B9 IV (Si)
5681	3.724	1.355	1.191	1.374	1.224	0.443	0.429	0.715	2	G8 III
5685	2.605	-0.643	-0.543	-0.425	-0.160	-0.054	-0.035	-0.055	86	B8 V
5733	4.390	0.187	0.170	0.293	0.351	0.128	0.155	0.261	2	F0 IV
5735	3.064	0.333	0.313	-0.024	0.028	0.020	0.042	0.090	3	A3 II-III
5744	3.612	2.117	1.948	2.042	1.619	0.478	0.585	0.900	2	K2 III
5747	3.737	0.215	0.204	0.365	0.360	0.095	0.136	0.196	2	F0 IIIp
5763	5.479	3.325	2.854	2.950	2.352	0.694	0.787	1.238	1	K5 III
5764	5.504	-1.319	-1.139	-0.689	-0.205	-0.050	-0.068	-0.085	2	B2 Vnn
5774 D	5.023	0.241	0.225	0.151	0.085	0.016	0.047	0.070	1	(A2n)
5777	4.863	1.543	1.392	1.599	1.333	0.424	0.485	0.778	2	K1 IV
5778	4.143	-0.961	-0.848	-0.514	-0.180	-0.050	-0.050	-0.078	2	B7nn
5780	5.139	-0.883	-0.743	-0.430	-0.135	-0.055	-0.038	-0.053	2	B7 IV:
5787	4.139	1.454	1.278	1.479	1.305	0.446	0.460	0.760	2	G8 III-IV
5788/9	3.839	0.228	0.224	0.288	0.288	0.088	0.126	0.199	2	F0 IV
5793 V	2.222	-0.134	-0.068	-0.020	-0.039	-0.037	-0.009	-0.022	3	A0 V
5838	5.185	3.325	2.923	2.987	2.308	0.637	0.791	1.277	2	K5 III
5842 D	4.545	0.024	0.070	0.146	0.062	-0.003	0.025	0.031	2	A1 V
5849 D	3.839	-0.107	-0.054	0.027	0.000	-0.023	0.017	0.008	2	A0 IV
5854	2.929	2.136	1.995	2.094	1.641	0.478	0.563	0.867	77	K2 III
5859	5.579	0.018	0.035	0.076	0.019	-0.009	0.009	0.030	2	A0 V
5867	3.695	0.118	0.149	0.139	0.086	0.001	0.035	0.053	3	A2 IV
5868	4.550	0.349	0.300	0.574	0.688	0.269	0.290	0.494	3	G0 V
5879	4.520	3.461	2.995	3.052	2.391	0.679	0.792	1.277	4	M1 III
5881	3.560	-0.259	-0.186	-0.094	-0.054	-0.030	-0.010	-0.005	2	A0 V
5889	4.819	0.826	0.702	0.927	0.967	0.357	0.381	0.615	2	G5 III-IV
5892	3.759	0.128	0.132	0.254	0.197	0.019	0.072	0.111	2	A m
5899	5.166	3.236	2.853	2.954	2.270	0.621	0.781	1.212	2	K5 III
5901	5.009	1.560	1.398	1.576	1.325	0.413	0.498	0.774	2	K0 III-IV
5902	5.041	-0.992	-0.861	-0.439	-0.072	-0.025	0.021	0.046	2	B3 V
5903	4.267	0.154	0.150	0.065	0.033	0.019	-0.007	0.023	3	A3 V
5908	4.366	1.558	1.381	1.555	1.335	0.458	0.485	0.781	2	K0 III-IV
5914	4.717	0.208	0.160	0.442	0.633	0.272	0.279	0.471	2	F9 V
5915 D	5.942	-0.881	-0.774	-0.380	-0.044	-0.004	0.007	0.031	2	B5 V:
5933	3.964	0.118	0.090	0.333	0.521	0.208	0.250	0.420	2	F6 V
5941 *	4.945	-0.468	-0.311	-0.458	-0.117	0.001	-0.041	0.002	1	B pe
5947	4.457	2.243	2.005	2.150	1.712	0.520	0.588	0.935	31	K3 III
5958 V	10.340	2.122	1.725	1.939	1.902	0.808	0.526	1.244	1	Pec (Nova)
5960	5.047	0.156	0.159	0.271	0.311	0.109	0.129	0.209	2	F0 IV
5971	4.974	-0.408	-0.312	-0.209	-0.089	-0.037	-0.017	-0.040	2	A0 II-IIIp
5972	4.846	0.057	0.092	0.172	0.090	0.004	0.030	0.041	2	A3 V
5977/8	4.226	0.220	0.209	0.367	0.527	0.214	0.221	0.346	2	F5 IV
5982	4.712	-0.611	-0.530	-0.359	-0.150	-0.047	-0.026	-0.051	2	B9p
5984/5	2.522	-1.377	-1.220	-0.712	-0.141	-0.005	-0.030	-0.023	2	B0.5 V+B2 V
5986	4.130	0.324	0.281	0.477	0.606	0.237	0.253	0.424	2	F8 IV-V
5993	3.966	-1.322	-1.182	-0.660	-0.108	0.008	0.000	0.002	2	B1 V
5997	4.495	1.110	0.948	1.088	1.057	0.390	0.380	0.625	2	(gG2)
6018	4.971	1.545	1.421	1.583	1.336	0.420	0.490	0.791	2	K0 III
6023	4.248	-0.491	-0.414	-0.246	-0.095	-0.041	-0.020	-0.024	2	B9p
6027 D	4.020	-1.047	-0.936	-0.479	-0.020	0.036	0.047	0.100	2	B2 IV-V
6031	4.957	0.096	0.128	0.195	0.097	0.007	0.052	0.068	2	A2 V
6056	3.141	3.425	2.970	3.031	2.355	0.670	0.773	1.231	2	M1 III
6075	3.462	1.420	1.267	1.422	1.260	0.432	0.447	0.727	2	G9 III
6092	3.894	-1.047	-0.912	-0.559	-0.207	-0.076	-0.056	-0.085	31	B5 IV
6093	4.908	0.142	0.170	0.293	0.378	0.146	0.183	0.301	2	F0 V
6095	3.834	0.398	0.382	0.358	0.303	0.095	0.152	0.238	2	A9 III
6103	5.084	1.502	1.383	1.497	1.281	0.413	0.459	0.722	2	K0 III
6104	4.728	1.517	1.387	1.564	1.337	0.442	0.476	0.759	2	K0 III
6117	4.625	-0.101	-0.068	-0.011	-0.031	-0.044	0.030	0.047	2	A1p
6118 V	4.587	-1.025	-0.983	-0.391	0.163	0.170	0.141	0.358	2	B2 Ve
6129	4.671	0.115	0.126	0.256	0.213	0.053	0.092	0.129	2	A m
6132	2.947	1.311	1.143	1.303	1.172	0.407	0.415	0.693	3	G8 III
6146 V	5.085	3.648	2.640	2.258	1.638	1.134	0.491	1.509	4	M6 III
6147	4.465	1.346	1.235	1.359	1.209	0.412	0.409	0.670	2	G8 III
6148	2.995	1.314	1.195	1.341	1.214	0.426	0.408	0.672	2	G8 III
6149 D	3.820	-0.044	-0.001	0.078	0.031	-0.012	0.018	0.029	2	A1 V

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
6159	5.251	3.142	2.739	2.847	2.177	0.589	0.769	1.202	3	K4 III
6161	4.963	-0.221	-0.155	-0.161	-0.088	-0.046	-0.012	-0.027	3	B9 IV
6168	4.224	-0.135	-0.090	-0.120	-0.043	-0.013	-0.001	0.002	2	B9 V
6175	2.586	-1.321	-1.199	-0.658	-0.058	0.043	0.020	0.068	2	O9.5 V
6212 D	2.940	0.475	0.427	0.668	0.763	0.264	0.334	0.533	4	G0 IV
6220	3.724	1.194	1.074	1.260	1.153	0.403	0.409	0.690	2	G7 III-IV
6237	4.996	0.088	0.077	0.260	0.409	0.179	0.187	0.326	2	F2 V
6243	4.780	0.297	0.254	0.415	0.554	0.211	0.234	0.398	2	F5 IV-V
6254	4.874	0.020	0.042	0.159	0.105	-0.008	0.053	0.081	2	A2p
6281	4.373	-0.638	-0.534	-0.330	-0.147	-0.050	-0.034	-0.057	2	B8 IV
6299	3.493	2.027	1.891	2.008	1.590	0.473	0.555	0.870	6	K2 III
6315	5.014	0.102	0.077	0.355	0.551	0.232	0.248	0.421	2	F6 V
6322 V	4.412	1.145	1.007	1.171	1.137	0.417	0.405	0.674	2	G5 III
6324	3.937	-0.284	-0.203	-0.073	-0.042	-0.035	0.005	0.004	2	B9.5 V
6337	5.367	3.515	3.018	3.008	2.347	0.717	0.723	1.270	3	M3 III
6355	4.939	0.114	0.141	0.236	0.155	0.026	0.058	0.098	2	A3 IV
6378 D	2.465	0.108	0.147	0.167	0.073	0.028	0.033	0.049	2	A2.5 V
6396	3.178	-0.776	-0.688	-0.481	-0.178	-0.073	-0.030	-0.038	2	B6 III
6406/7V	3.382	2.573	2.145	1.988	1.550	0.964	0.475	1.386	1	M5 II+G5 III
6410	3.164	0.075	0.087	0.136	0.081	0.012	0.059	0.081	2	A3 IV
6415 D	5.035	1.969	1.823	1.945	1.568	0.473	0.558	0.870	2	K2 III
6418	3.538	2.894	2.587	2.669	2.092	0.602	0.701	1.088	2	K3 II
6431 V	4.968	-1.217	-1.072	-0.645	-0.212	-0.068	-0.085	-0.102	1	B3 III
6436	4.599	-0.042	0.024	0.065	0.028	-0.014	0.023	0.031	2	A2 V
6446	4.347	0.010	0.073	0.088	0.020	-0.004	0.018	0.013	2	A1 V
6484/5	4.177	-0.081	-0.051	-0.079	-0.054	-0.028	0.005	0.016	2	A0p /A0 IV
6493	4.600	0.121	0.100	0.288	0.421	0.192	0.179	0.315	2	F3 V
6498	4.723	2.906	2.638	2.684	2.170	0.685	0.716	1.125	2	K3 II
6526	4.796	2.891	2.584	2.697	2.095	0.594	0.703	1.098	2	K4 III
6536	3.028	1.329	1.164	1.258	1.230	0.451	0.446	0.722	2	G2 II
6554	4.964	0.125	0.133	0.261	0.290	0.103	0.115	0.207	2	A m
6555	4.945	0.189	0.196	0.324	0.355	0.117	0.130	0.222	2	A m
6556	2.128	0.204	0.203	0.241	0.190	0.048	0.072	0.118	2	A5 III
6561	3.604	0.264	0.251	0.300	0.312	0.091	0.144	0.208	2	F0 IV
6567	4.655	-0.253	-0.193	-0.134	0.084	0.075	0.078	0.150	2	B8 V
6581	4.265	0.129	0.165	0.187	0.096	0.021	0.029	0.052	2	A2 V
6588	3.791	-1.247	-1.088	-0.685	-0.245	-0.078	-0.075	-0.104	2	B3 V
6596	4.889	0.113	0.104	0.339	0.495	0.206	0.218	0.366	2	F5 V
6603	3.058	2.114	1.981	2.082	1.627	0.477	0.564	0.875	70	K2 III
6623	3.610	0.745	0.704	0.936	0.904	0.306	0.353	0.578	2	G5 IV
6629	3.749	-0.013	0.033	0.109	0.047	-0.010	-0.002	0.002	63	A0 V
6636 D	4.692	0.131	0.125	0.321	0.469	0.185	0.233	0.378	2	F5 IV-V
6685	5.544	1.015	0.779	0.305	0.389	0.192	0.167	0.309	2	F2 Ia
6688	4.044	2.101	1.940	2.063	1.616	0.476	0.576	0.902	2	K2 III
6695	4.179	2.558	2.347	2.393	1.951	0.613	0.608	0.946	2	K1 II
6698	3.552	1.615	1.485	1.596	1.342	0.434	0.448	0.733	2	G9 III
6703	3.943	1.336	1.224	1.363	1.211	0.408	0.436	0.712	2	G9 III
6705	2.661	3.201	2.816	2.923	2.257	0.616	0.769	1.206	2	K5 III
6707 *	4.518	0.474	0.425	0.326	0.397	0.167	0.197	0.356	2	F2 II
6710	4.718	0.135	0.100	0.291	0.428	0.172	0.199	0.341	2	F3 V
6712	4.596	-1.298	-1.176	-0.634	-0.100	-0.002	0.025	0.116	2	B2 Ve
6713	4.949	2.232	2.037	2.110	1.740	0.568	0.561	0.890	2	K0 II-III
6714	3.999	-0.935	-0.836	-0.526	-0.040	0.050	0.042	0.082	2	B5 Ib
6723	4.478	-0.026	0.023	0.023	0.016	-0.001	0.039	0.058	2	A1 V
6752 D	4.265	0.914	0.875	1.180	1.071	0.326	0.469	0.741	3	K0 V

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
6770	4.861	1.427	1.310	1.447	1.271	0.446	0.424	0.691	2	G8 III-IV
6771	3.781	0.113	0.135	0.220	0.151	0.018	0.067	0.108	2	A4 V
6779	3.820	-0.084	-0.011	-0.112	-0.044	-0.014	-0.023	-0.018	2	B9.5 III
6787	4.352	-1.389	-1.216	-0.771	-0.244	-0.062	-0.070	-0.105	2	B2 V
6789	4.392	0.015	0.052	0.074	0.013	-0.015	0.016	0.004	2	A1 V
6866	5.054	1.253	1.099	1.272	1.182	0.413	0.397	0.657	2	G8 III
6868	5.356	3.460	3.027	3.057	2.395	0.669	0.797	1.279	2	M0 III
6869	3.469	1.248(	1.10)	1.324	1.201	0.400	0.455	0.740	3	K0 III-IV
6872	4.631	2.092	1.938	2.034	1.638	0.490	0.543	0.868	2	K2 III
6884	4.874	1.364	1.228	1.393	1.227	0.424	0.442	0.698	2	K0 III
6895	4.146	2.039	1.855	2.014	1.598	0.487	0.582	0.908	2	K2 III
6896 D	5.138	1.899	1.790	1.874	1.645	0.626	0.667	1.074	2	K2 II
6918 VD	5.330	0.523	0.536	0.610	0.531	0.223	0.278	0.461	4	G0 III+A6 V
6920 D	4.236	-0.640	-0.557	-0.299	-0.111	-0.060	-0.028	-0.024	2	A0p
6923 D	5.011	0.035	0.074	0.157	0.093	0.019	0.036	0.065	2	A1 V
6927	3.690	0.095	0.061	0.338	0.553	0.238	0.243	0.441	2	F7 V
6930	4.708	0.190	0.182	0.095	0.046	0.012	0.045	0.074	2	A3 V
6945	5.112	2.081	1.792	1.970	1.598	0.507	0.553	0.908	2	K2 III
6973	4.210	2.585	2.333	2.457	1.897	0.538	0.677	1.037	2	K3 III
6978	4.924	1.017	0.853	0.705	0.747	0.284	0.303	0.492	2	F7 Ib
7001	0.038	-0.022	0.013	0.081	0.015	-0.022	-0.008	-0.023	4	A0 V
7020 V	4.800	0.353	0.326	0.367	0.430	0.149	0.184	0.296	2	F3 III-IV
7056 D	4.404	0.274	0.272	0.290	0.237	0.048	0.096	0.166	3	A m
7061	4.301	0.172	0.130	0.354	0.520	0.214	0.212	0.372	2	F6 V
7063	4.477	1.646	1.517	1.588	1.425	0.523	0.518	0.828	2	G5 II
7064	5.147	2.142	1.936	2.081	1.653	0.494	0.584	0.917	2	K3 III
7066 V	5.797	3.295	2.775	2.598	2.094	0.760	0.717	1.150	1	G0eIa-K0pIb
7069	4.370	0.082	0.109	0.244	0.185	0.020	0.040	0.079	2	A3 V
7106 V	3.398	-0.965	-0.887	-0.569	-0.076	0.013	0.041	0.119	1	B pe
7125	4.971	2.003	1.742	1.897	1.609	0.530	0.562	0.927	2	K0 II-III
7133 D	4.795	1.010	0.958	1.068	0.956	0.369	0.392	0.663	2	G4 III+A6 V
7137	5.132	1.185	1.065	1.223	1.149	0.403	0.410	0.691	2	G8 III
7139 V	4.560	3.227	2.693	2.618	2.136	0.889	0.604	1.293	1	M4 II
7141/2	4.672	0.131	0.154	0.220	0.181	0.033	0.086	0.136	2	A5 V
7157 V	4.390	3.588	2.800	2.520	1.888	1.022	0.473	1.350	1	M5 III
7176	4.312	1.860	1.703	1.814	1.462	0.450	0.503	0.822	2	K2 III
7178	3.241	-0.056(	-0.07)	-0.234	-0.076	-0.017	-0.003	0.025	6	B9 III
7180	5.101	2.004	1.814	1.948	1.582	0.501	0.533	0.867	2	K0 III
7193	4.294	1.820	1.652	1.810	1.479	0.475	0.517	0.842	2	K1 III
7235	2.980	-0.058	0.015	0.044	0.009	-0.015	-0.016	-0.004	2	B9.5 V
7236	3.418	-0.522	-0.419	-0.256	-0.122	-0.048	-0.050	-0.059	3	B8 V
7298	4.385	-1.150	-1.012	-0.682	-0.224	-0.064	-0.043	-0.082	2	B2 IV
7306	4.746	-0.939	-0.821	-0.493	-0.132	-0.024	-0.019	-0.024	2	B3 IV
7310	3.328	1.510	1.339	1.486	1.295	0.429	0.471	0.748	2	G9 III
7314	4.628	2.234	2.060	2.136	1.769	0.583	0.561	0.891	2	K0 II
7328	3.993	1.411	1.283	1.417	1.248	0.423	0.429	0.713	2	G9 III
7340	3.971	0.239	0.238	0.272	0.267	0.070	0.118	0.168	2	F0 IV
7342	4.663	-0.724	-0.852	-0.544	-0.020	-0.004	0.198	0.306	2	A pe
7352	4.779	2.467	2.274	2.352	1.815	0.499	0.620	0.955	2	K3 III
7358	5.167	-0.964	-0.840	-0.475	-0.188	-0.071	-0.050	-0.084	2	B6 III
7371	4.613	0.066	0.089	0.118	0.036	-0.023	0.018	0.021	2	A2 IV
7372	4.979	-1.223	-1.079	-0.635	-0.190	-0.053	-0.037	-0.066	2	B3 IV
7377	3.429	0.149	0.138	0.262	0.348	0.135	0.149	0.251	2	F0 IV
7387	4.820	1.402	1.205	0.662	0.606	0.294	0.330	0.502	2	F2 Ib
7405	4.862	3.245	2.795	2.836	2.200	0.609	0.740	1.204	2	M0+ III

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
8279	4.838	-0.632	-0.588	-0.248	0.245	0.205	0.160	0.281	2	B2 Ib
8288	4.923	1.210	1.016	1.190	1.120	0.410	0.393	0.675	2	G8 III
8297 V	6.708	(12+)	7.314	6.706	4.948	1.396	1.260	1.964	1	C6,3
8301	4.687	-1.099	-0.976	-0.621	-0.166	-0.044	-0.060	-0.063	2	B3 V
8308	2.793	3.029	2.693	2.725	2.240	0.712	0.729	1.113	2	K2 Ib
8309/10	4.570	0.096	0.066	0.315	0.525	0.199	0.230	0.395	2	F6 V
8313	4.555	1.850	1.671	1.760	1.549	0.518	0.508	0.807	2	G5 Ib
8315 D	4.221	0.124	0.095	0.288	0.437	0.186	0.225	0.368	2	F5 IV
8316 V	4.634	4.818	4.396	4.081	3.331	1.328	1.028	1.834	7	M2 Ia
8317	4.802	1.946	1.802	1.915	1.540	0.463	0.517	0.817	3	K0 III
8322 V	2.948	0.182	0.193	0.320	0.361	0.139	0.159	0.265	2	A6m
8327	6.003	-0.793	-0.744	-0.281	0.276	0.206	0.161	0.280	2	O9 II
8334	4.434	0.734	0.564	0.239	0.485	0.316	0.268	0.463	2	A2 Ia
8335	4.223	-1.195	-1.067	-0.686	-0.178	-0.047	-0.031	-0.053	2	B3 III
8383 V	5.418	1.102	1.072	1.586	2.007	0.918	0.857	1.560	1	M2ep Ia+B9
8402	4.718	-0.768	-0.652	-0.470	-0.154	-0.046	-0.020	-0.011	2	B8 V
8413	5.269	3.031	2.720	2.806	2.138	0.556	0.757	1.155	2	K4 III
8414	3.178	1.516	1.311	1.338	1.291	0.458	0.441	0.696	2	G2 Ib
8417 D	4.331	0.224	0.222	0.362	0.435	0.159	0.185	0.277	2	A m
8418	4.258	-0.624	-0.511	-0.267	-0.097	-0.042	-0.054	-0.056	2	B8 V
8430	3.857	0.106	0.101	0.345	0.507	0.204	0.210	0.355	3	F5 V
8450	3.545	0.095	0.114	0.176	0.107	0.018	0.016	0.024	2	A2 V
8454	4.383	0.560	0.467	0.455	0.552	0.238	0.224	0.374	2	F5 II-III
8465	3.740	3.026	2.737	2.762	2.273	0.745	0.722	1.120	2	K1 Ib
8468	5.025	1.308	1.162	1.276	1.184	0.411	0.412	0.687	2	G8 III
8469	5.136	-0.985	-0.899	-0.432	0.155	0.168	0.137	0.238	2	O6f
8485	4.852	2.515	2.336	2.408	1.940	0.602	0.696	1.075	2	K3 III
8494	4.242	0.195	0.185	0.288	0.330	0.129	0.140	0.216	2	F0 IV
8498	4.477	2.863	2.605	2.675	2.120	0.632	0.692	1.054	2	K3 II-III
8499	4.401	1.503	1.370	1.510	1.299	0.416	0.459	0.727	2	G8 III-IV
8518	3.858	-0.254	-0.193	-0.111	-0.080	-0.051	-0.002	-0.029	2	B9 III
8520	5.005	-1.338	-1.191	-0.742	-0.226	-0.060	-0.049	-0.080	2	B2 V
8522	4.827	-0.338	-0.269	-0.228	-0.027	-0.018	0.026	0.034	2	B8 III
8523	4.540	-0.942	-0.808	-0.513	-0.164	-0.060	-0.044	-0.061	2	B6 IV
8538	4.659	1.508	1.328	1.502	1.313	0.436	0.475	0.771	2	G9 III
8539	4.629	-1.490	-1.366	-0.763	-0.108	0.019	0.025	0.138	2	B1 Vpe
8541	4.625	-0.458	-0.417	-0.371	0.029	0.065	0.080	0.130	2	B9 Iab
8551	5.058	1.667	1.483	1.678	1.401	0.455	0.514	0.830	3	K0 III
8558/9	3.769	0.212	0.163	0.314	0.474	0.190	0.206	0.361	2	F2 IV
8571 V	4.316	1.267	1.073	1.063	1.046	0.376	0.401	0.616	1	F5 Ib-G2 Ib
8572 D	4.804	2.140	2.097	2.326	2.202	0.830	0.814	1.343	2	M0 Iab+b
8573	4.881	-0.156	-0.072	-0.023	-0.025	-0.022	-0.010	-0.017	2	A0 IV
8579	4.479	-1.225	-1.087	-0.678	-0.156	-0.020	-0.028	-0.042	2	B2 IV
8585	3.749	-0.102	-0.056	0.045	0.021	-0.026	-0.012	0.003	2	A2 V
8597	4.025	-0.522	-0.419	-0.282	-0.121	-0.060	-0.028	-0.053	2	B8 V
8613	4.666	0.262	0.250	0.274	0.274	0.106	0.103	0.186	2	A7 IV
8622	4.845	-1.736	-1.562	-0.962	-0.291	-0.070	-0.075	-0.114	99	O9 V
8632	4.814	2.467	2.184	2.317	1.837	0.556	0.635	0.995	2	K3 III
8634	3.409	-0.534	-0.420	-0.318	-0.153	-0.064	-0.026	-0.041	2	B8 V
8641	4.805	-0.067	-0.027	-0.010	-0.018	-0.021	0.000	-0.024	2	A1 V
8649	5.021	2.700	2.393	2.530	1.963	0.574	0.679	1.052	2	K4 III
8650	3.129	1.151	1.030	1.152	1.070	0.378	0.393	0.638	2	G2 II-III+F?
8665	4.306	0.164	0.129	0.355	0.554	0.230	0.257	0.415	2	F7 V
8667	4.191	1.708	1.564	1.668	1.441	0.470	0.482	0.758	2	G8 II-III
8679	4.439	3.364	2.942	3.006	2.343	0.644	0.773	1.217	2	M0 III

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
8684	3.727	1.313	1.175	1.339	1.212	0.423	0.423	0.677	2	G8 III
8694	3.736	1.679	1.535	1.678	1.407	0.454	0.497	0.770	2	K1 III
8698	4.139	3.204	2.824	2.877	2.363	0.751	0.766	1.276	2	M2 III
8702	5.057	2.326	2.087	2.224	1.755	0.518	0.607	0.968	2	K3 III
8709	3.280	0.152	0.167	0.145	0.075	0.003	0.035	0.037	2	A3 V
8717	4.890	-0.069	-0.005	0.010	-0.006	-0.020	0.008	-0.011	2	A1 V
8729	5.611	0.527	0.488	0.737	0.798	0.286	0.323	0.533	3	G4 V
8748	5.041	2.944	2.619	2.737	2.095	0.572	0.710	1.103	2	K4 III
8752 V	5.398	2.654	2.324	2.217	2.005	0.785	0.799	1.213	1	G0 Ia
8762	3.636	-0.955	-0.828	-0.603	-0.177	-0.045	-0.017	-0.038	1	B6p
8773	4.504	-0.901	-0.791	-0.473	-0.160	-0.049	-0.034	-0.067	2	B5 Ve
8775 V	2.848	3.831	3.222	3.151	2.474	0.823	0.690	1.284	2	M2+ II-III
8780	4.893	1.651	1.514	1.653	1.400	0.461	0.492	0.796	2	K0 III
8781	2.501	-0.091	-0.043	-0.087	-0.052	-0.022	-0.009	-0.030	3	B9.5 III
8795	4.972	3.390	2.964	3.006	2.342	0.642	0.783	1.264	2	M2 III
8796	5.088	2.135	1.920	2.054	1.825	0.604	0.623	1.002	2	K0 Ibp
8797	4.820	-1.357	-1.212	-0.729	-0.114	0.044	-0.001	0.011	2	B0.5 IV
8808 D	6.271	-0.980	-0.843	-0.450	-0.066	0.009	0.004	0.013	2	B3 V
8819 D	4.597	0.943	0.870	1.033	0.985	0.345	0.393	0.634	3	G2 III
8830	4.596	0.142	0.127	0.250	0.342	0.126	0.144	0.241	1	F0 V
8832	5.871	1.369	1.289	1.624	1.282	0.295	0.609	0.916	68	K3 V
8834	4.635	3.342	2.905	2.947	2.302	0.644	0.756	1.249	2	M2 III
8841	4.513	1.823	1.694	1.821	1.486	0.465	0.535	0.828	2	K0 III
8852	3.912	1.278	1.059	1.229	1.167	0.419	0.418	0.698	2	G7 III
8858	4.395	-1.029	-0.888	-0.576	-0.198	-0.070	-0.039	-0.086	2	B5 V
8860	5.230	3.667	3.163	3.143	2.467	0.762	0.734	1.298	3	(gM2)
8872 D	4.947	1.030	0.921	1.110	1.058	0.374	0.401	0.664	2	K0 III
8880	4.605	0.162	0.164	0.197	0.171	0.052	0.074	0.122	2	A5 IV
8892	4.196	1.748	1.546	1.698	1.451	0.473	0.504	0.835	2	K0 III
8905	4.556	0.442	0.368	0.532	0.679	0.267	0.284	0.487	2	F8 IV
8906	4.817	3.095	2.765	2.847	2.217	0.613	0.764	1.194	2	K5 III
8911	4.967	-0.143	-0.134	0.034	0.041	-0.039	0.061	0.060	2	A2p
8916	4.553	1.783	1.642	1.768	1.453	0.460	0.522	0.826	2	K1 III
8923	4.767	1.389	1.268	1.405	1.242	0.420	0.450	0.720	2	G8 III
8926 V	4.870	-1.143	-0.991	-0.601	-0.181	-0.051	-0.030	-0.051	2	B3 V
8961 V	3.994	1.359	1.172	1.367	1.235	0.422	0.505	0.820	2	G8 III-IV
8965	4.287	-0.562	-0.472	-0.367	-0.120	-0.037	-0.046	-0.045	2	B8 V
8969	4.227	0.214	0.175	0.394	0.582	0.233	0.243	0.426	9	F7 V
8974	3.479	1.626	1.511	1.688	1.362	0.408	0.496	0.800	2	K1 IV
8976	4.135	-0.481	-0.390	-0.218	-0.117	-0.062	-0.021	-0.049	2	B8 V
8982	4.980	1.105	0.921	0.990	1.008	0.356	0.379	0.614	2	G0 Ib
8984	4.546	0.148	0.158	0.243	0.226	0.060	0.097	0.153	2	A7 V
8988	4.455	-0.330	-0.236	-0.077	-0.045	-0.020	-0.028	-0.050	2	B9.5 V
8997 D	5.133	1.300	1.172	1.330	1.203	0.410	0.438	0.706	2	K0 III
9045 V	4.810	2.237	1.792	1.575	1.409	0.618	0.563	0.853	2	G0 Iap
9064	5.023	3.123	2.753	2.750	2.264	0.762	0.691	1.260	2	M3 III
9071 D	4.893	-1.322	-1.181	-0.693	-0.146	-0.009	-0.007	-0.025	2	B1 V
9072	4.133	0.244	0.195	0.315	0.443	0.177	0.224	0.365	2	F4 IV
9089	4.804	3.623	3.045	2.965	2.332	0.820	0.641	1.247	2	M3 III
9098	4.522	-0.207	-0.139	-0.157	-0.057	-0.007	-0.027	-0.021	3	B9 IV

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
7417	3.398	1.199	1.222	1.443	1.378	0.491	0.603	0.937	2	K3 II+B:
7420	3.826	0.206	0.218	0.200	0.165	0.055	0.055	0.129	2	A5 V
7426	4.739	-1.126	-0.973	-0.628	-0.224	-0.067	-0.060	-0.064	2	B3 IV
7429	4.778	2.099	1.927	2.072	1.604	0.447	0.605	0.945	2	K3 III
7437	5.016	-0.760	-0.662	-0.445	-0.169	-0.055	-0.005	-0.009	2	B7 V
7446	4.987	-1.369	-1.228	-0.715	-0.100	0.040	0.046	0.067	2	B0.5 III
7447	4.358	-0.805	-0.691	-0.434	-0.144	-0.040	-0.005	-0.008	2	B5 III
7462	4.895	0.710	0.664	1.019	0.967	0.303	0.403	0.670	2	K0 V
7469	4.587	0.070	0.069	0.278	0.446	0.181	0.190	0.334	3	F4 V
7478	4.929	1.448	1.345	1.480	1.275	0.411	0.455	0.744	2	G8 III-IV
7479	4.579	0.963	0.806	0.928	0.970	0.351	0.353	0.611	2	G0 II
7488	4.640	1.676	1.547	1.620	1.407	0.475	0.466	0.766	2	G8 II
7503	6.144	0.442	0.401	0.677	0.756	0.285	0.328	0.555	4	G2 V
7504	6.395	0.465	0.415	0.720	0.770	0.283	0.332	0.547	5	G5 V
7525	3.125	3.007	2.694	2.793	2.210	0.664	0.730	1.127	2	K3 II
7528	2.892	-0.188	-0.100	-0.102	-0.069	-0.017	-0.014	-0.005	2	B9.5 III
7536	4.210	1.994	1.918	1.993	1.741	0.706	0.650	1.202	2	M2 II+A0 V
7546 D	5.068	0.093	0.130	0.148	0.098	0.024	0.055	0.083	2	A3 V
7557	0.798	0.161	0.161	0.240	0.257	0.075	0.111	0.170	3	A7 IV,V
7564 V	6.128	3.127	2.248	1.633	1.631	1.243	0.556	1.601	1	M5 (S7,1e)
7565	4.959	-1.184	-1.025	-0.624	-0.240	-0.077	-0.052	-0.087	2	B3 V
7570 V	4.209	1.446	1.246	1.242	1.180	0.465	0.421	0.660	1	F6 Ib
7574	6.280	-1.414	-1.275	-0.717	-0.071	0.055	0.047	0.099	2	O8f
7582 D	4.077	1.104	0.960	1.153	1.098	0.409	0.410	0.702	2	G8 III
7589	5.652	-1.528	-1.369	-0.799	-0.168	0.003	-0.012	0.007	2	O9.5 III
7592	4.543	-0.274	-0.225	-0.170	-0.060	-0.036	0.014	-0.018	2	B9.5 III
7595	4.974	1.666	1.496	1.643	1.370	0.446	0.497	0.808	2	K0 III
7602	3.954	0.923	0.831	1.107	1.027	0.343	0.427	0.713	2	G8 IV
7613	4.949	-0.905	-0.781	-0.518	-0.159	-0.039	-0.026	-0.030	2	B6 III
7615	4.156	1.587	1.452	1.599	1.342	0.436	0.486	0.785	2	K0 III
7619 D	4.999	0.164	0.184	0.205	0.160	0.050	0.088	0.151	2	A3 IV
7635	3.980	3.315	2.938	3.006	2.338	0.632	0.817	1.265	2	K5 III
7653	4.738	0.317	0.285	0.261	0.204	0.048	0.103	0.170	2	A m
7678	5.728	-0.403	-0.383	0.004	0.489	0.334	0.284	0.497	2	B1.5 Ia+
7685	4.864	2.607	2.366	2.450	1.909	0.547	0.641	0.991	2	K3 III
7708	5.000	-1.334	-1.190	-0.760	-0.268	-0.102	-0.025	-0.046	2	B3 V
7710	3.182	-0.275	-0.246	-0.169	-0.096	-0.033	-0.028	-0.046	2	B9.5 III
7724	4.981	0.033	0.057	0.173	0.096	0.006	0.024	0.042	2	A2 V
7730	4.887	0.359	0.338	0.121	0.094	0.025	0.071	0.109	2	A3 III
7735 V	4.153	1.009	1.087	1.414	1.505	0.584	0.674	1.063	2	K2 II+B3 V
7736	5.009	0.058	0.083	0.167	0.156	0.061	0.076	0.161	2	A2 III
7739	4.793	-1.276	-1.115	-0.689	-0.221	-0.060	-0.072	-0.096	2	B3 V
7740	4.355	0.159	0.163	0.163	0.128	0.038	0.068	0.121	2	A3 IV,V
7744	4.864	2.011	1.867	2.012	1.718	0.523	0.661	1.038	2	K3 III
7747	4.498	1.625	1.437	1.498	1.370	0.495	0.502	0.803	2	G3 Ib
7750 D	4.386	-0.225	-0.166	-0.154	-0.066	-0.021	-0.019	-0.022	2	B9 III
7751 V	4.445	1.956	1.900	2.113	1.972	0.692	0.787	1.258	2	K3 Ib-II+B
7754	3.821	1.305	1.198	1.340	1.199	0.403	0.449	0.731	2	G9 III
7763 V	4.955	-0.691	-0.652	-0.198	0.347	0.260	0.288	0.518	2	B1ep
7767 D	5.898	-1.162	-1.059	-0.544	0.018	0.085	0.087	0.161	2	O8
7773	4.763	-0.248	-0.184	-0.106	-0.078	-0.043	-0.005	-0.019	2	B9 V
7776	3.293	0.661	0.679	0.861	0.897	0.351	0.413	0.669	2	F8 V(+A0)
7796	2.391	1.221	1.005	0.819	0.844	0.311	0.330	0.517	4	F8 Ib
7806	4.786	2.608	2.343	2.489	1.934	0.565	0.678	1.059	2	K3 III
7822 D	4.843	0.173	0.165	0.311	0.426	0.178	0.184	0.316	2	F2 IV

B.S.	52	33-52	35-52	37-52	40-52	45-52	52-58	52-63	NO	SP.TYPE
7834	4.097	0.742	0.624	0.450	0.486	0.182	0.196	0.341	2	F5 II
7844	4.930	-1.091	-0.958	-0.620	-0.149	-0.036	-0.015	-0.019	2	B2 V
7847	6.476	1.787	1.555	1.195	1.075	0.494	0.561	0.891	2	F5 Iab
7850	4.248	0.291	0.280	0.298	0.254	0.068	0.071	0.134	2	A m
7852	4.016	-0.908	-0.769	-0.500	-0.190	-0.068	-0.048	-0.066	2	B6 III
7866	5.058	1.547	1.624	1.941	1.967	0.774	0.801	1.279	2	K2 Ib+B
7871	4.685	0.152	0.185	0.210	0.145	0.023	0.029	0.041	2	A3 V
7882 D	3.727	0.324	0.286	0.412	0.538	0.206	0.216	0.354	2	F5 IV
7884	4.522	1.365	1.238	1.375	1.234	0.419	0.410	0.670	2	G8 III
7891	4.801	-0.259	-0.174	-0.084	-0.053	-0.040	-0.014	-0.040	2	B9.5 V
7906	3.763	-0.415	-0.319	-0.228	-0.093	-0.049	-0.024	-0.040	2	B9 V
7924	1.308	-0.089	-0.158	-0.341	0.037	0.079	0.054	0.106	8	A2 Ia
7928	4.463	0.218	0.207	0.263	0.302	0.104	0.161	0.252	2	A7p III
7939	5.202	2.113	1.895	2.031	1.615	0.501	0.561	0.888	2	K2 III
7942	4.447	1.665	1.507	1.660	1.412	0.450	0.474	0.773	2	K0 III
7947/8	4.078	0.968	0.893	1.079	1.025	0.343	0.432	0.690	2	F8 IV-V/K2 IV
7949	2.702	1.569	1.413	1.565	1.344	0.442	0.472	0.770	3	K0 III
7950	3.790	0.022	0.071	0.012	-0.014	-0.027	0.005	0.012	2	A1 V
7951	4.866	3.660	3.128	3.064	2.407	0.792	0.690	1.281	2	M3 III
7955	4.627	0.353	0.312	0.525	0.643	0.244	0.263	0.429	2	F8 IV-V
7957	3.642	1.189	1.056	1.297	1.163	0.393	0.439	0.706	2	K0 IV
7963 D	4.476	-0.901	-0.774	-0.505	-0.159	-0.055	-0.039	-0.069	2	B5 V
7977	4.932	-0.473	-0.439	-0.153	0.341	0.246	0.218	0.375	2	B3 Ia
7990	4.837	0.281	0.279	0.363	0.410	0.147	0.174	0.257	2	A8m
7995	4.753	1.011	0.897	1.069	1.047	0.373	0.373	0.613	2	G8 III
8001	4.764	-1.041	-0.905	-0.542	-0.180	-0.056	-0.047	-0.090	2	B5 V
8020	5.794	-0.151	-0.179	-0.009	0.453	0.293	0.225	0.425	2	B8 Ia
8028	3.970	0.018	0.054	-0.074	-0.013	-0.006	-0.001	0.033	2	A0 V
8047 V	4.594	-1.438	-1.318	-0.731	-0.094	0.025	0.008	0.093	1	B1 IV:e
8060	4.887	0.130	0.146	0.235	0.181	0.046	0.093	0.116	2	A3 m?
8075	4.114	-0.091	-0.042	0.041	0.001	-0.020	-0.002	0.005	2	A0 V
8079	4.134	3.061	2.782	2.808	2.334	0.735	0.795	1.224	2	K5 Ib
8085	5.697	1.662	1.491	1.902	1.488	0.278	0.811	1.170	2	K5 V
8086	6.539	1.953	1.754	2.099	1.709	0.384	0.879	1.325	2	K7 V
8089	4.959	3.218	2.888	2.924	2.358	0.696	0.751	1.197	2	K4 Ib-IIa
8093	4.727	1.336	1.210	1.380	1.227	0.416	0.420	0.700	2	G8 III
8097	4.788	0.164	0.184	0.322	0.346	0.092	0.116	0.204	2	F0p
8115	3.446	1.436	1.351	1.482	1.337	0.456	0.433	0.696	5	G8 II
8123 D	4.596	0.158	0.138	0.389	0.562	0.235	0.244	0.426	2	F7 V
8130 D	3.841	0.212	0.185	0.344	0.465	0.206	0.187	0.323	2	F0 IV
8131	4.019	0.616	0.589	0.691	0.609	0.217	0.247	0.448	2	G0 III+A5 V
8143 *	4.235	-0.520	-0.457	-0.391	0.039	0.078	0.071	0.155	1	B9 Iab
8146	4.373	-1.367	-1.235	-0.698	-0.175	-0.033	-0.028	0.018	2	B2 Ve
8162	2.500	0.228	0.224	0.282	0.274	0.087	0.099	0.169	3	A7 IV,V
8167	4.489	1.162	1.031	1.206	1.122	0.401	0.413	0.676	2	G8 III
8173	4.348	1.852	1.705	1.843	1.492	0.471	0.519	0.821	2	K1 III
8225	4.950	3.417	2.998	3.020	2.355	0.668	0.782	1.255	2	M1 III
8232	3.093	1.248	1.041	1.060	1.060	0.374	0.393	0.624	2	G0 Ib
8238 DV	3.185	-1.636	-1.453	-0.923	-0.314	-0.107	-0.106	-0.151	2	B2 III
8252	4.195	1.150	1.024	1.205	1.127	0.396	0.407	0.678	2	G8 III
8255	5.142	1.785	1.651	1.775	1.451	0.445	0.539	0.840	2	K1 III
8260	4.632	-1.088	-0.971	-0.762	-0.260	-0.069	-0.067	-0.060	2	B3 V:p
8262 V	5.732	3.661	2.744	2.329	1.782	1.184	0.523	1.580	1	(gM4e)
8264	4.748	0.246	0.236	0.253	0.214	0.058	0.077	0.139	2	A7 V
8278	3.763	0.408	0.396	0.399	0.409	0.110	0.151	0.235	2	F0 IIIp

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
3	6.239	0.941	0.244			11100	1.27	38641.8624	1
3	6.279	0.932	0.224	0.071	0.129	11111	1.33	39013.8833	1
3	6.241	0.929	0.284	0.088	0.174	11111	1.30	39051.7665	3
15	1.885	-0.103	-0.271	-0.583	-0.105	11111	1.00	39016.8335	3
15	1.925	-0.076	-0.280	-0.599	-0.088	11111	1.02	39051.7758	3
21	2.736	0.216	-0.053			11100	1.16	38702.6345	3
21	2.736	0.249	-0.069			11100	1.12	38702.6810	3
21	2.770	0.225	-0.059			11100	1.15	38702.7514	3
21	2.742	0.218	-0.065			11100	1.15	38704.6385	3
21	2.723	0.232	-0.057			11100	1.14	38704.7302	3
21	2.764	0.247	-0.128			11100	1.13	38708.7120	3
21	2.784	0.239	-0.073	-0.108	0.021	11111	1.27	39448.7669	1
21	2.803	0.251	-0.084	-0.137	0.053	11111	1.24	39457.7323	1
27	5.537	0.227	-0.045	0.169	0.104	11111	1.03	39016.8436	3
27	5.580	0.244	-0.073	0.139	0.110	11111	1.03	39053.7312	3
33	5.551	0.289	-0.188	-0.444	0.034	11111	1.51	39016.8539	3
33	5.585	0.328	-0.211	-0.458	0.048	11111	1.50	39053.7407	3
39	2.474	-0.211	-0.544			11100	1.28	38689.6272	1
39	2.472	-0.216	-0.543			11100	1.10	38702.6437	3
39	2.478	-0.206	-0.549			11100	1.05	38702.6896	3
39	2.493	-0.209	-0.535			11100	1.09	38702.7424	3
39	2.478	-0.240	-0.530			11100	1.76	38702.8588	3
39	2.486	-0.189	-0.559			11100	1.06	38704.6656	3
39	2.503	-0.207	-0.544			11100	1.09	38704.7388	3
39	2.464	-0.242	-0.542			11100	1.42	38704.8201	3
39	2.521	-0.181	-0.541	-1.038	-0.151	11111	1.08	39440.7209	1
39	2.574	-0.185	-0.552	-1.029	-0.166	11111	1.25	39448.7540	1
45	7.512	1.663	0.649			11100	1.03	38641.8459	1
45	7.552	1.648	0.680	0.684	0.445	11111	2.52	38890.9757	3
45	7.566	1.675	0.661	0.649	0.460	11111	2.25	38921.9012	3
45	7.549	1.658	0.655	0.651	0.464	11111	1.02	39019.8235	3
45	7.549	1.659	0.653	0.649	0.460	11111	1.03	39025.8386	3
45	7.535	1.646	0.680	0.652	0.445	11111	1.03	39026.8013	3
45	7.573	1.656	0.665	0.643	0.493	11111	1.03	39028.8181	3
45	7.565	1.667	0.675	0.643	0.457	11111	1.03	39029.7924	3
45	7.515	1.642	0.662	0.631	0.449	11111	2.16	39042.9595	3
45	7.521	1.652	0.678	0.659	0.441	11111	1.03	39044.7814	3
45	7.506	1.653	0.678	0.667	0.452	11111	1.02	39050.7408	3
45	7.501	1.654	0.671	0.658	0.437	11111	1.02	39051.7452	3
45	7.547	1.656	0.673	0.660	0.464	11111	1.03	39053.7612	3
45	7.476	1.633	0.672	0.651	0.464	11111	1.03	39091.6585	1
45	7.491	1.655	0.666	0.640	0.385	11111	2.48	39140.7046	3
45	7.504	1.639	0.684	0.634	0.443	11111	2.27	39280.9174	3
45	7.496	1.628	0.657	0.635	0.446	11111	1.16	39298.9789	1
45	7.507	1.649	0.659	0.645	0.468	11111	1.09	39304.9882	1
45	7.535	1.645	0.654	0.618	0.465	11111	1.03	39359.8754	1
45	7.543	1.640	0.648	0.642	0.392	11111	1.09	39365.8187	1
45	7.436	1.630	0.630	0.584	0.425	11111	1.05	39373.8183	1
45	7.520	1.635	0.624	0.655	0.383	11111	1.03	39375.8315	1
45	7.564	1.645	0.645	0.630	0.439	11111	1.03	39376.8275	3
45	7.515	1.633	0.638	0.659	0.486	11111	1.08	39432.7549	1
45	7.534	1.635	0.647	0.653	0.451	11111	1.03	39451.6632	1
45	7.555	1.653	0.649	0.621	0.437	11111	1.03	39473.5979	1
45	7.486	1.647	0.673	0.665	0.430	11111	1.05	39474.6260	1
45	7.537	1.696	0.680	0.651	0.431	11111	1.04	39487.5812	3
45	7.528	1.680	0.674	0.655	0.441	11111	1.14	39488.6264	3
48	7.507	1.802	0.708	0.724	0.501	11111	1.61	39019.8352	3
48	7.340	1.733	0.667	0.650	0.472	11111	1.61	39053.7513	3
48	7.378	1.739	0.687	0.717	0.421	11111	1.67	39406.8089	1
63	4.684	0.053	0.056	0.016	-0.044	11111	1.02	39016.8674	3
63	4.724	0.068	0.062	-0.009	-0.016	11111	1.01	39055.7209	3
68	4.615	0.064	0.075	-0.001	-0.055	11111	1.01	39019.8469	3
68	4.644	0.085	0.070	-0.010	-0.021	11111	1.00	39055.7312	3
74	0.000	1.176	0.415	0.397	0.173	01111	1.33	39024.8181	3
74	5.560	1.185	0.410	0.313	0.200	11111	1.35	39026.8343	3
74	5.590	1.208	0.406	0.318	0.178	11111	1.34	39055.7434	3
74	5.551	1.163	0.398	0.332	0.176	11111	1.41	39406.8232	1
123	4.593	-0.063	-0.230	-0.433	-0.097	11111	1.08	39026.8444	3
123	4.615	-0.072	-0.201	-0.400	-0.096	11111	1.08	39055.7599	3
130	4.283	-0.056	-0.601	-1.060	-0.108	11111	1.16	39028.8359	3
130	4.312	-0.043	-0.627	-1.096	-0.111	11111	1.16	39056.7248	3
153	3.422	-0.177	-0.531	-0.990	-0.183	11111	1.08	39028.8472	3
153	3.431	-0.182	-0.538	-1.012	-0.175	11111	1.07	39056.7366	3
154	4.180	-0.114	-0.369	-0.699	-0.143	11111	1.00	39029.8171	3
154	4.218	-0.121	-0.383	-0.716	-0.124	11111	1.00	39056.7473	3
163	5.627	0.669	0.003	-0.171	0.192	11111	1.00	39029.8273	3
163	5.667	0.672	0.001	-0.168	0.189	11111	1.00	39057.7307	3
165	5.500	1.338	0.544	0.434	0.200	11111	1.01	39029.8397	3
165	5.500	1.327	0.543	0.447	0.210	11111	1.00	39057.7401	3
168	4.174	1.121	0.330	0.258	0.160	11111	1.10	39029.8489	3
168	4.179	1.107	0.330	0.251	0.164	11111	1.09	39057.7495	3
179	4.664	-0.118	-0.421	-0.756	-0.134	11111	1.06	39031.7964	3
179	4.658	-0.127	-0.400	-0.764	-0.120	11111	1.06	39059.7201	3
188	3.750	0.934	0.272	0.132	0.174	11111	1.58	39031.8059	3
188	3.756	0.938	0.255	0.154	0.151	11111	1.57	39060.7331	3
193	4.492	-0.091	-0.385	-0.639	-0.091	11111	1.04	39042.7885	3
193	4.495	-0.082	-0.401	-0.650	-0.126	11111	1.04	39060.7524	3
194	0.000	0.896	0.225	0.060	0.179	01111	1.37	39031.8148	3
194	6.385	0.900	0.248	0.098	0.154	11111	1.37	39042.7780	3
194	6.420	0.908	0.247	0.109	0.145	11111	1.37	39060.7424	3
194	6.347	0.890	0.238	0.078	0.144	11111	1.42	39372.8437	3
215	5.924	0.988	0.240	0.084	0.177	11111	1.01	39042.8003	3
215	5.919	0.994	0.225	0.064	0.170	11111	1.01	39061.7332	3
219	4.286	0.419	-0.198	-0.464	0.052	11111	1.11	39045.7587	3
219	4.266	0.404	-0.188	-0.468	0.048	11111	1.11	39061.7431	3
219	4.267	0.405	-0.191	-0.484	0.081	11111	1.12	39372.8532	3
219	4.192	0.390	-0.189	-0.500	0.040	11111	1.10	39408.7924	3
224	7.122	1.628	0.655	0.550	0.379	11111	1.11	39045.7674	3
224	7.095	1.634	0.648	0.560	0.340	11111	1.12	39076.6688	3
226	4.376	-0.119	-0.372	-0.714	-0.130	11111	1.01	39045.7775	3
226	4.339	-0.122	-0.374	-0.733	-0.126	11111	1.02	39076.6807	3
226	4.379	-0.126	-0.342	-0.705	-0.119	11111	1.03	39365.8731	1
244	5.608	0.387	-0.140	-0.348	0.038	11111	1.14	39045.7872	3
244	5.567	0.391	-0.152	-0.382	0.021	11111	1.14	39076.7028	3
248	7.521	1.694	0.599			11100	1.23	38752.6245	3
248	7.533	1.679	0.666	0.585	0.456	11111	1.22	39365.8862	1
248	7.505	1.666	0.657	0.567	0.377	11111	1.24	39406.8364	1
253	6.830	1.183	0.415	0.288	0.234	11111	1.12	39050.7649	3
253	6.834	1.176	0.430	0.283	0.253	11111	1.12	39365.8969	1
264	2.109	-0.168	-0.683	-1.325	-0.124	11111	1.13	39050.7865	3
264	2.133	-0.159	-0.723	-1.407	-0.126	11111	1.14	39372.8635	3
264	2.107	-0.164	-0.706	-1.377	-0.097	11111	1.13	39407.8037	1
265	6.078	0.791	0.124	-0.057	0.174	11111	1.12	39050.7761	3
265	6.080	0.800	0.110	-0.044	0.171	11111	1.12	39365.9070	1
269	4.087	0.124	0.071	0.035	-0.012	11111	1.01	39050.7970	3
269	4.063	0.116	0.050	0.053	-0.007	11111	1.01	39372.8843	3
271	5.856	0.811	0.148			11100	1.05	38752.6377	3
271	5.837	0.803	0.136	-0.014	0.145	11111	1.01	39372.8946	3
285	6.304	1.230	0.463	0.362	0.167	11111	1.68	39054.7651	3
294	5.785	0.801	0.124	-0.029	0.165	11111	1.11	39013.8972	1
294	5.767	0.810	0.116	-0.053	0.196	11111	1.10	39054.7539	3
334	5.377	1.122	0.410	0.295	0.156	11111	1.36	39054.7753	3
334	5.374	1.147	0.422	0.297	0.181	11111	1.36	39410.7930	3
335	4.140	-0.082	-0.294	-0.415	-0.105	11111	1.03	39018.8773	3
335	4.174	-0.066	-0.300	-0.417	-0.118	11111	1.04	39054.7850	3
337	4.866	1.704	0.683	0.589	0.464	11111	1.01	39018.8890	3
337	4.905	1.707	0.673	0.626	0.456	11111	1.00	39055.7729	3
343	4.608	0.157	0.054	0.032	-0.025	11111	1.09	39019.8397	3
343	4.635	0.171	0.048	-0.004	0.008	11111	1.08	39056.7619	3
351	6.254	0.889	0.186	0.059	0.126	11111	1.03	39019.8500	3
351	6.303	0.909	0.196	0.065	0.150	11111	1.02	39056.7730	3
352	6.242	0.998	0.311	0.199	0.095	11111	1.00	39019.8626	3
352	6.294	1.016	0.335	0.199	0.143	11111	1.00	39056.7823	3
360	6.337	0.955	0.196	0.051	0.130	11111	1.01	39026.8546	3
360	6.354	0.949	0.192	0.065	0.130	11111	1.01	39057.7600	3
383	4.818	0.033	0.057	0.121	-0.021	11111	1.01	39026.8643	3
383	4.856	0.043	0.067	0.139	-0.047	11111	1.00	39057.7736	3
390	6.599	1.014	0.327	0.206	0.143	11111	1.03	39026.8753	3
390	6.656	1.014	0.316	0.192	0.150	11111	1.03	39057.7828	3
399	6.419	0.967	0.298	0.145	0.113	11111	1.23	39028.8598	3
399	6.454	0.981	0.279	0.145	0.117	11111	1.23	39060.7635	3
402	5.324	0.961	0.291	0.159	0.146	11111	1.33	39028.8722	3
402	5.365	0.954	0.285	0.156	0.133	11111	1.32	39060.7735	3
403	2.845	0.107	0.090	0.101	-0.018	11111	1.13	39029.8600	3
403	2.892	0.136	0.089	0.083	-0.018	11111	1.13	39061.7564	3
403	2.809	0.100	0.063	0.056	-0.009	11111	1.15	39408.8637	3
417	5.435	0.304	-0.186	-0.411	0.002	11111	1.03	39029.8698	3
417	5.446	0.305	-0.163	-0.391	0.023	11111	1.03	39061.7664	3
424	2.768	0.439	-0.060	0.019	0.140	11111	1.82	39018.8417	3
424	2.839	0.437	-0.054	0.018	0.138	11111	1.81	39408.8770	3
424	2.910	0.480	-0.057	0.006	0.145	11111	1.82	39461.7482	1
434	7.219	1.416	0.531	0.419	0.381	11111	1.13	39045.8373	3
434	7.194	1.401	0.583	0.420	0.386	11111	1.12	39061.7773	3
437	5.115	0.832	0.149	0.045	0.127	11111	1.05	39025.8657	3
437	5.134	0.835	0.135	0.024	0.136	11111	1.05	39076.7357	3

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
442	6.227	0.848	0.172	0.028	0.160	11111	1.12	39025.8760	3
442	6.215	0.865	0.159	0.006	0.170	11111	1.13	39076.7556	3
458	4.853	0.357	-0.185			11100	1.04	38641.8720	1
458	4.820	0.375	-0.236			11100	1.03	38708.7760	3
458	4.870	0.378	-0.146	-0.393	0.041	11111	1.03	39359.9215	1
458	4.787	0.373	-0.178	-0.424	0.034	11111	1.02	39408.8043	3
464	5.712	1.310	0.260			11000	1.07	38708.7868	3
464	5.816	1.335	0.482	0.376	0.172	11111	1.04	39359.9442	1
464	5.744	1.289	0.519	0.429	0.193	11111	1.04	39410.8060	3
477	4.821	-0.105	-0.318	-0.478	-0.093	11111	1.01	39025.8869	3
477	4.838	-0.105	-0.319	-0.492	-0.109	11111	1.01	39359.9565	1
483	5.836	0.407	-0.131			11100	1.04	38641.8838	1
483	5.833	0.452	-0.127	-0.397	0.064	11111	1.02	39044.8069	3
483	5.893	0.488	-0.164	-0.434	0.042	11111	1.02	39359.9665	1
483	5.754	0.435	-0.133	-0.414	0.031	11111	1.02	39408.8213	3
489	6.816	1.417	0.567	0.458	0.336	11111	1.14	39045.8467	3
489	6.764	1.412	0.589	0.442	0.300	11111	1.17	39375.8693	1
493	6.531	0.717	0.117	-0.170	0.029	11111	1.05	39045.8561	3
493	6.423	0.679	0.171	-0.171	0.035	11111	1.04	39375.8814	1
493	6.514	0.716	0.137	-0.179	0.037	11111	1.02	39410.8197	3
496	4.035	-0.107	-0.631	-1.212	-0.112	11111	1.05	39044.8243	3
496	3.967	-0.142	-0.620	-1.228	-0.076	11111	1.06	39375.8933	1
496	3.980	-0.132	-0.635	-1.208	-0.131	11111	1.05	39410.8320	3
509	4.568	0.544	-0.055	-0.374	0.089	11111	1.51	39044.8356	3
509	4.612	0.546	-0.017	-0.343	0.081	11111	1.51	39375.9105	1
510	5.775	0.837	0.156	0.052	0.118	11111	1.13	39045.8669	3
510	5.735	0.843	0.169	0.038	0.133	11111	1.20	39376.8445	3
531	5.106	0.231	-0.086	-0.244	0.026	11111	1.39	39051.7873	3
531	5.109	0.239	-0.072	-0.242	0.007	11111	1.51	39376.8541	3
539	5.529	1.048	0.337	0.228	0.171	11111	1.37	39051.7963	3
539	5.531	1.051	0.361	0.238	0.169	11111	1.46	39376.8652	3
542	3.150	-0.133	-0.401	-0.710	-0.136	11111	1.17	39051.8065	3
542	3.160	-0.138	-0.410	-0.695	-0.141	11111	1.19	39376.8791	3
544	4.122	0.338	-0.182	-0.364	0.069	11111	1.01	39052.7805	3
544	4.089	0.322	-0.154	-0.319	0.054	11111	1.01	39376.8948	3
545	3.870	0.034	-0.064	-0.225	-0.057	11111	1.03	39052.7906	3
545	3.844	-0.002	-0.056	-0.190	-0.061	11111	1.03	39410.8470	3
549	6.087	0.830	0.177	0.038	0.125	11111	1.15	39052.8090	3
549	6.078	0.833	0.199	0.045	0.125	11111	1.15	39411.8179	1
553	2.888	0.132	0.073	-0.052	0.032	11111	1.02	39052.8000	3
553	2.869	0.151	0.068	-0.025	-0.004	11111	1.02	39411.8288	1
569	5.197	0.213	-0.042	-0.136	0.020	11111	1.03	39053.7714	3
569	5.186	0.213	-0.048	-0.139	0.029	11111	1.02	39411.8409	1
575	4.754	0.139	0.031	-0.085	-0.011	11111	1.28	39053.7814	3
575	4.708	0.164	0.019	-0.058	0.013	11111	1.28	39451.7362	1
580	4.001	0.049	0.034	0.019	-0.018	11111	1.30	39053.7906	3
580	3.966	0.027	0.037	0.019	-0.018	11111	1.30	39431.7606	1
590	4.904	-0.098	-0.264	-0.352	-0.065	11111	1.08	39053.8010	3
590	4.870	-0.074	-0.266	-0.318	-0.060	11111	1.08	39451.7116	1
595	3.836	-0.008	-0.047			11100	1.22	38786.5968	1
595	3.799	0.017	-0.095			11100	1.26	38708.8224	3
603	3.966	0.999	0.239			11100	1.09	38708.8332	3
603	3.993	1.060	0.192			11100	1.07	38764.6678	1
617	3.940	1.115	0.333			11100	1.22	38641.8360	1
617	3.906	1.086	0.366			11100	1.01	38641.9496	1
617	3.930	1.118	0.309			11100	1.02	38751.6205	3
617	3.858	1.087	0.389			11100	1.07	38752.5797	3
617	3.922	1.113	0.339			11100	1.01	38764.6101	1
617	3.897	1.085	0.392			11100	1.03	38786.5794	1
617	3.846	1.098	0.372			11100	1.03	38789.5692	1
617	3.911	1.117	0.300			11100	1.04	38791.5702	1
617	3.915	1.100	0.364	0.202	0.206	11111	2.40	39027.6785	3
617	3.912	1.099	0.364	0.201	0.210	11111	1.02	39034.8395	1
617	3.925	1.103	0.367	0.210	0.220	11111	1.02	39042.8183	3
617	3.904	1.088	0.377	0.177	0.244	11111	1.02	39046.8457	1
617	3.907	1.105	0.370	0.200	0.223	11111	1.05	39052.7692	3
617	3.910	1.091	0.358	0.198	0.206	11111	1.02	39054.7944	3
617	3.933	1.106	0.350	0.203	0.186	11111	1.02	39056.7913	3
617	3.912	1.086	0.371	0.217	0.204	11111	1.02	39057.7922	3
617	3.958	1.089	0.367	0.208	0.213	11111	1.01	39059.7911	3
617	3.974	1.100	0.359	0.206	0.189	11111	1.01	39060.7856	3
617	3.922	1.107	0.363	0.202	0.203	11111	1.01	39061.7867	3
617	3.912	1.109	0.352	0.192	0.222	11111	1.04	39076.7143	3
617	3.892	1.102	0.375	0.203	0.217	11111	1.06	39084.7836	1
617	3.929	1.089	0.373	0.192	0.228	11111	1.02	39135.6030	1
617	3.883	1.088	0.362	0.209	0.195	11111	1.02	39138.5672	3
617	3.901	1.081	0.381	0.208	0.171	11111	2.45	39138.7921	3
617	3.892	1.099	0.357	0.194	0.198	11111	1.01	39139.5828	3
617	3.908	1.107	0.352	0.202	0.177	11111	2.83	39139.8009	3
617	3.891	1.119	0.347	0.183	0.215	11111	1.01	39140.5688	3
617	3.939	1.099	0.370	0.208	0.199	11111	1.03	39147.5899	3
617	3.916	1.114	0.343	0.171	0.210	11111	2.43	39147.7665	3
617	3.889	1.114	0.366	0.192	0.221	11111	1.02	39148.5745	3
617	3.935	1.104	0.356	0.199	0.193	11111	2.32	39148.7597	3
617	3.812	1.106	0.366	0.199	0.203	01111	1.06	39150.6028	3
617	3.907	1.100	0.355	0.198	0.201	11111	1.02	39151.5706	3
617	3.882	1.092	0.366	0.193	0.226	11111	1.04	39365.9176	1
617	3.854	1.090	0.340	0.173	0.198	11111	1.02	39372.9269	3
617	3.882	1.090	0.394	0.204	0.222	11111	1.01	39375.9240	1
617	3.887	1.102	0.375	0.221	0.190	11111	1.02	39376.9043	3
617	3.878	1.093	0.363	0.191	0.218	11111	1.02	39377.9106	1
617	3.885	1.098	0.372	0.209	0.210	11111	1.02	39406.8748	1
617	3.917	1.099	0.361	0.207	0.205	11111	1.02	39410.8633	3
617	3.876	1.086	0.364	0.180	0.229	11111	1.02	39411.8542	1
617	3.931	1.092	0.377	0.213	0.200	11111	1.01	39431.7870	1
617	3.899	1.090	0.366	0.197	0.215	11111	1.07	39444.8052	1
617	3.915	1.080	0.374	0.209	0.200	11111	1.06	39448.7851	1
617	3.907	1.090	0.371	0.212	0.200	11111	1.01	39457.7156	1
617	3.879	1.093	0.375	0.204	0.213	11111	1.02	39461.7159	1
617	3.908	1.092	0.375	0.204	0.211	11111	1.14	39468.7640	1
617	3.886	1.092	0.355	0.188	0.222	11111	1.17	39469.7707	1
617	3.904	1.089	0.360	0.193	0.202	11111	1.15	39470.7635	1
617	3.881	1.075	0.393	0.223	0.217	11111	1.05	39472.7171	1
617	3.891	1.093	0.357	0.207	0.201	11111	1.07	39473.7223	1
617	3.949	1.108	0.374	0.203	0.259	11111	1.31	39474.7873	1
617	3.908	1.096	0.346	0.181	0.200	11111	1.01	39482.6399	3
617	3.878	1.107	0.352	0.190	0.171	11111	1.03	39487.5940	3
617	3.913	1.083	0.365	0.208	0.215	11111	1.56	39487.7841	3
617	3.898	1.085	0.371	0.207	0.212	11111	1.04	39499.6367	1
617	3.883	1.080	0.373	0.199	0.203	11111	1.06	39500.6470	1
617	3.895	1.093	0.368	0.206	0.196	11111	1.01	39501.5780	1
617	3.909	1.106	0.365	0.200	0.211	11111	1.01	39502.5965	1
617	3.876	1.077	0.362	0.206	0.195	11111	1.02	39504.5638	1
617	0.000	0.013	0.000	0.000	0.210	00001	1.01	39505.5701	1
617	3.903	1.101	0.357	0.207	0.196	11111	1.01	39506.5687	1
617	3.883	1.093	0.376	0.202	0.192	11111	1.01	39507.5779	1
617	3.842	1.111	0.357	0.198	0.222	11111	1.01	39508.5644	1
617	3.903	1.092	0.374	0.194	0.203	11111	1.01	39509.5746	1
618	6.401	0.247	-0.333	-0.241	0.121	11111	1.11	39016.9195	3
618	6.403	0.250	-0.352	-0.266	0.133	11111	1.11	39044.8503	3
620	4.957	0.094	0.081	0.068	-0.006	11111	1.01	39016.9302	3
620	4.976	0.113	0.064	0.055	-0.002	11111	1.01	39044.8622	3
622	3.250	0.135	0.042			11100	1.00	38751.6469	3
622	3.242	0.120	0.055	0.060	-0.003	11111	1.01	39044.8719	3
648	8.443	1.660	0.655	0.610	0.354	11111	1.06	39016.9437	3
648	8.517	1.690	0.671	0.633	0.406	11111	1.05	39051.8422	3
649	5.736	0.733	0.069	-0.060	0.183	11111	1.10	39018.9314	3
649	5.735	0.732	0.057	-0.080	0.234	11111	1.11	39051.8522	3
664	4.072	0.043	0.050	-0.044	-0.056	11111	1.01	39018.9410	3
664	4.063	0.035	0.038	-0.038	-0.039	11111	1.01	39057.8402	3
681	6.794	-0.127	0.544			11100	1.26	38752.6822	3
681	6.036	0.231	0.506			11100	1.24	38764.6352	1
681	5.513	0.445	0.334			11100	1.33	38786.6156	1
681	5.526	0.413	0.350			11100	1.26	38789.5821	1
681	5.576	0.528	0.324			11100	1.33	38791.6029	1
681	7.420	-0.025	0.379	0.832	0.543	11111	1.36	39084.8079	1
681	4.890	0.564	0.265	0.597	0.979	11111	1.24	39139.6078	3
681	5.021	0.522	0.153	0.456	0.975	11111	1.26	39151.5918	3
681	10.815	-0.348	-0.229	-0.578	0.056	11111	1.23	39359.9865	1
681	10.320	-0.465	-0.138	-0.522	0.160	11111	1.26	39372.9137	3
681	10.443	-0.426	-0.061	-0.369	0.120	11111	1.23	39375.9480	1
696	6.577	0.034	-0.552	-0.931	-0.064	11111	1.12	39019.8751	3
696	6.606	0.033	-0.533	-0.917	-0.074	11111	1.11	39057.8499	3
699	0.000	0.013	0.000	0.000	0.336	00001	1.06	39019.8845	3
699	7.456	1.634	0.681	0.574	0.344	11111	1.07	39057.8596	3
699	7.450	1.657	0.688	0.559	0.352	11111	1.05	39138.5890	3
707	4.697	0.135	0.026	-0.116	-0.001	11111	1.22	39025.8980	3
707	4.654	0.136	0.036	-0.103	-0.015	11111	1.22	39076.7680	3
708	4.866	-0.010	-0.057	-0.024	-0.054	11111	1.41	39025.9086	3
708	4.811	-0.031	-0.041	0.000	-0.060	11111	1.42	39076.7793	3
718	4.187	-0.058	-0.017			11100	1.11	38751.6324	3
718	4.207	-0.024	-0.009			11100	1.18	38752.5903	3
718	4.232	-0.013	-0.018			11100	1.10	38764.6202	1
718	0.000	-0.006	-0.082	-0.171	-0.067	01111	1.10	39013.9477	1
718	4.184	-0.039	-0.031	-0.120	-0.090	11111	1.12	39016.8935	3
718	4.199	-0.030	-0.032	-0.134	-0.074	11111	1.16	39025.8514	3
718	4.224	-0.028	-0.038	-0.144	-0.069	11111	2.40	39031.7065	3
718	4.227	-0.027	-0.038	-0.143	-0.073	11111	1.12	39034.8478	1
718	4.255	-0.015	-0.028	-0.131	-0.067	11111	1.11	39042.8293	3
718	4.235	-0.032	-0.025	-0.126	-0.078	11111	1.10	39046.8550	1
718	4.222	-0.023	-0.041	-0.154	-0.061	11111	1.10	39051.8304	3
718	4.231	-0.027	-0.041	-0.150	-0.053	11111	1.10	39052.8469	3
718	4.222	-0.021	-0.042	-0.158	-0.053	11111	1.10	39053.8292	3
718	4.246	-0.019	-0.045	-0.153	-0.082	11111	1.10	39054.8380	3
718	4.256	-0.021	-0.049	-0.136	-0.077	11111	1.10	39056.8331	3
718	4.233	-0.033	-0.026	-0.132	-0.077	11111	1.10	39057.8312	3
718	4.269	-0.026	-0.022	-0.136	-0.079	11111	1.10	39059.8015	3
718	4.292	-0.033	-0.037	-0.149	-0.075	11111	1.10	39060.8170	3
718	4.248	-0.023	-0.043	-0.139	-0.088	11111	1.11	39061.8297	3
718	4.209	-0.030	-0.036	-0.138	-0.067	11111	1.13	39076.7242	3
718	4.197	-0.034	-0.021	-0.117	-0.094	11111	1.14	39084.7929	1

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
718	4.213	-0.042	-0.024	-0.140	-0.069	11111	1.10	39135.6171	1
718	4.203	-0.024	-0.044	-0.154	-0.058	11111	1.10	39138.5768	3
718	4.220	-0.038	-0.010	-0.126	-0.095	11111	2.44	39138.7822	3
718	4.222	-0.029	-0.040	-0.154	-0.058	11111	1.10	39139.5927	3
718	4.228	-0.033	-0.036	-0.139	-0.069	11111	2.85	39139.7917	3
718	4.219	-0.016	-0.040	-0.148	-0.078	11111	1.10	39140.5811	3
718	4.239	-0.024	-0.037	-0.153	-0.075	11111	1.11	39147.6032	3
718	4.225	-0.026	-0.049	-0.144	-0.060	11111	2.42	39147.7568	3
718	4.213	-0.026	-0.024	-0.134	-0.083	11111	1.15	39148.6211	3
718	4.232	-0.041	-0.021	-0.112	-0.083	11111	2.30	39148.7496	3
718	4.133	-0.012	-0.033	-0.160	-0.090	01111	1.14	39150.6123	3
718	4.229	-0.025	-0.033	-0.139	-0.070	11111	1.10	39151.5799	3
718	4.229	-0.034	-0.030	-0.115	-0.092	11111	1.17	39359.9336	1
718	4.285	-0.016	-0.058	-0.129	-0.059	11111	1.40	39365.8625	1
718	4.270	-0.034	-0.006	-0.137	-0.053	11111	1.10	39375.9346	1
718	4.213	-0.025	-0.056	-0.160	-0.062	11111	1.10	39377.9214	1
718	4.226	-0.025	-0.049	-0.145	-0.074	11111	1.12	39407.8300	1
718	4.158	-0.043	-0.060	-0.170	-0.079	11111	1.10	39408.8493	3
718	4.207	-0.030	-0.034	-0.145	-0.056	11111	1.10	39443.7777	1
718	4.240	-0.018	-0.040	-0.139	-0.078	11111	1.10	39444.7582	1
718	4.232	-0.018	-0.045	-0.154	-0.063	11111	1.10	39457.7029	1
718	4.231	-0.033	-0.041	-0.138	-0.063	11111	1.10	39459.7277	1
718	4.250	-0.020	-0.053	-0.152	-0.067	11111	1.24	39461.7942	1
718	4.258	-0.003	-0.067	-0.165	-0.080	11111	1.11	39472.6546	1
718	4.222	-0.023	-0.043	-0.150	-0.077	11111	1.11	39476.6975	1
718	4.241	-0.015	-0.051	-0.151	-0.085	11111	1.10	39479.6615	1
718	4.232	-0.038	-0.044	-0.150	-0.070	11111	1.84	39487.7980	3
718	4.227	-0.005	-0.060	-0.166	-0.063	11111	1.13	39499.6484	1
718	4.230	-0.017	-0.048	-0.155	-0.051	11111	1.16	39500.6634	1
718	4.217	-0.034	-0.024	-0.139	-0.049	11111	1.10	39501.5937	1
718	4.230	-0.034	-0.039	-0.142	-0.074	11111	1.10	39502.6138	1
718	4.215	-0.024	-0.041	-0.149	-0.076	11111	1.10	39504.5765	1
718	4.229	-0.024	-0.040	-0.147	-0.057	11111	1.10	39505.5819	1
718	4.240	-0.023	-0.040	-0.150	-0.065	11111	1.10	39506.5788	1
718	4.213	-0.032	-0.034	-0.136	-0.072	11111	1.10	39507.5992	1
718	4.215	-0.032	-0.018	-0.125	-0.093	11111	1.10	39508.5824	1
718	4.220	-0.031	-0.037	-0.138	-0.066	11111	1.10	39509.5979	1
740	5.357	0.283	-0.178	-0.364	0.025	11111	1.49	39025.9200	3
740	5.327	0.274	-0.160	-0.341	0.009	11111	1.50	39076.7899	3
753	7.354	0.962	0.271			11100	1.18	38789.6163	1
753	7.352	0.935	0.325			11100	1.19	38791.6127	1
753	7.333	0.923	0.343	-0.065	0.164	11111	2.31	39031.7179	3
753	7.381	0.941	0.312	-0.071	0.148	11111	1.91	39053.6776	3
753	7.379	0.928	0.310	-0.055	0.130	11111	1.11	39359.9985	1
753	7.346	0.931	0.292	-0.054	0.130	11111	1.15	39440.8202	1
779	3.716	-0.234	-0.581			11100	1.27	38708.8429	3
779	3.758	-0.205	-0.546			11100	1.22	38791.5932	1
779	3.771	-0.203	-0.544	-1.043	-0.162	11111	1.24	39407.8179	1
788	5.678	0.418	-0.167			11100	1.07	38708.8525	3
788	5.733	0.438	-0.092	-0.359	0.051	11111	1.01	39138.5993	3
799	4.828	0.361	-0.198	-0.433	0.022	11111	1.05	39026.9020	3
799	4.811	0.332	-0.166	-0.419	0.021	11111	1.04	39138.6101	3
801	4.489	-0.113	-0.429	-0.799	-0.129	11111	1.00	39026.9113	3
801	4.492	-0.125	-0.394	-0.798	-0.201	11111	1.01	39138.6199	3
804	3.626	0.102	0.058	-0.040	-0.030	11111	1.15	39026.9211	3
804	3.623	0.110	0.057	-0.059	-0.016	11111	1.15	39139.6218	3
811	4.101	-0.097	-0.282	-0.517	-0.117	11111	1.46	39028.8953	3
811	4.059	-0.121	-0.292	-0.531	-0.103	11111	1.47	39139.6324	3
813	4.723	0.222	-0.037	-0.135	0.008	11111	1.08	39028.9059	3
813	4.690	0.232	-0.032	-0.162	0.010	11111	1.08	39140.5936	3
818	5.155	0.339	-0.154	-0.397	-0.005	11111	1.59	39028.9166	3
818	5.114	0.334	-0.160	-0.391	-0.010	11111	1.59	39140.6044	3
824	6.372	1.048	0.369	0.245	0.138	11111	1.00	39029.8944	3
824	6.322	1.052	0.355	0.229	0.151	11111	1.00	39140.6145	3
834	6.607	1.565	0.503	0.491	0.258	11111	1.09	39029.9045	3
834	6.688	1.670	0.564	0.561	0.310	11111	1.09	39140.6243	3
838	3.548	-0.076	-0.207	-0.436	-0.109	11111	1.00	39029.9137	3
838	3.480	-0.067	-0.230	-0.449	-0.117	11111	1.02	39140.6346	3
838	3.515	-0.068	-0.222	-0.473	-0.089	11111	1.01	39151.6027	3
840	4.740	0.253	-0.083	-0.139	0.059	11111	1.02	39042.8439	3
840	4.747	0.234	-0.069	-0.122	0.022	11111	1.02	39151.6121	3
843	7.303	1.671	0.670	0.581	0.427	11111	1.01	39042.8546	3
843	7.322	1.660	0.691	0.589	0.409	11111	1.03	39151.6216	3
854	5.054	0.583	0.082	-0.024	0.084	11111	1.07	39042.8655	3
854	5.054	0.553	0.083	-0.017	0.064	11111	1.10	39151.6316	3
874	5.647	1.001	0.343	0.179	0.176	11111	1.33	39042.8772	3
874	5.627	1.008	0.329	0.169	0.162	11111	1.46	39174.5814	3
875	5.289	0.092	0.033			11100	1.31	38786.6325	1
875	5.294	0.103	0.070			11100	1.24	38791.5806	1
875	5.308	0.080	0.046	0.021	-0.025	11111	1.28	39018.9855	3
875	5.388	0.104	0.046	0.054	-0.032	11111	1.24	39029.9246	3
875	5.319	0.095	0.029	0.038	-0.053	11111	2.75	39042.7081	3
875	5.279	0.070	0.069	0.045	-0.032	11111	1.31	39045.9234	3
875	5.323	0.080	0.047	0.031	-0.009	11111	2.41	39053.6894	3
875	5.308	0.087	0.040	0.021	-0.034	11111	2.36	39054.6885	3
875	5.310	0.095	0.027	0.026	-0.042	11111	2.25	39056.6878	3
875	5.322	0.099	0.037	0.012	-0.019	11111	2.40	39057.6790	3
875	5.333	0.089	0.045	0.026	-0.026	11111	2.20	39060.6794	3
875	5.295	0.082	0.051	0.028	-0.004	11111	2.32	39061.6710	3
875	5.251	0.056	0.058	0.073	-0.017	11111	1.24	39091.7465	1
875	5.326	0.095	0.031	0.023	-0.026	11111	1.24	39360.0088	1
875	5.278	0.081	0.028	0.028	0.027	11111	2.05	39372.8323	3
875	5.356	0.104	0.026	0.001	-0.020	11111	1.24	39372.9837	3
875	5.293	0.089	0.043	0.047	-0.027	11111	1.29	39376.0102	1
875	5.271	0.061	0.050	0.024	-0.035	11111	1.26	39377.9885	1
875	5.307	0.089	0.045	0.006	-0.015	11111	1.24	39406.8865	1
875	5.289	0.081	0.040	0.011	-0.011	11111	2.12	39409.7277	3
875	5.304	0.088	0.036	0.019	-0.024	11111	1.26	39409.8434	3
875	5.332	0.092	0.000	0.034	-0.030	11011	2.28	39410.7171	3
875	5.355	0.090	0.024	-0.005	-0.003	11111	1.24	39410.8754	3
875	5.311	0.081	0.030	0.004	-0.025	11111	1.27	39431.8510	1
875	0.000	0.013	0.000	0.019	-0.033	00011	1.48	39433.8982	0
875	5.331	0.092	0.041	0.033	-0.026	11111	1.35	39434.8691	1
875	5.276	0.088	0.052	0.058	-0.044	11111	1.32	39487.6068	3
879	4.797	0.051	0.049	0.116	-0.023	11111	1.01	39042.8923	3
879	4.740	0.047	0.059	0.125	-0.044	11111	1.14	39173.6197	3
882	7.010	1.220	0.449	0.295	0.250	11111	1.01	39042.9040	3
882	6.955	1.204	0.456	0.317	0.218	11111	1.07	39174.5911	3
896	4.539	-0.093	-0.284			11100	1.10	38752.7013	3
896	4.515	-0.113	-0.274	-0.552	-0.117	11111	1.35	39173.6293	3
911	5.378	1.705	0.512			11100	1.22	38786.6459	1
911	5.416	1.714	0.613	0.603	0.428	11111	1.14	39054.8483	3
915	3.931	0.489	0.116	0.059	0.058	11111	1.07	39016.9546	3
915	3.963	0.527	0.083	0.026	0.044	11111	1.07	39054.8582	3
921	6.013	1.384	0.633	0.783	0.652	11111	1.01	39018.9533	3
921	6.023	1.348	0.620	0.771	0.609	11111	1.01	39054.8674	3
932	4.914	0.044	0.063	-0.009	-0.045	11111	1.34	39016.9664	3
932	4.936	0.063	0.038	-0.018	-0.058	11111	1.35	39054.8776	3
932	4.936	0.044	0.058	-0.017	-0.036	11111	1.34	39139.6447	3
936	1.979	-0.098	-0.250			11100	1.06	38708.8633	3
936	2.077	-0.044	-0.235	-0.485	-0.118	11111	1.03	39054.8878	3
936	2.039	-0.060	-0.236	-0.483	-0.090	11111	1.02	39406.9084	1
936	2.098	-0.054	-0.242	-0.466	-0.119	11111	1.03	39448.8150	1
936	3.050	-0.011	-0.208	-0.427	-0.063	11111	1.11	39456.6674	1
936	3.190	-0.019	-0.206	-0.416	-0.059	11111	1.07	39456.6855	1
936	2.375	-0.073	-0.210	-0.446	-0.107	11111	1.05	39459.6949	1
936	2.295	-0.081	-0.213	-0.449	-0.111	11111	1.02	39459.7143	1
936	2.081	-0.077	-0.215	-0.448	-0.094	11111	1.16	39459.8470	1
936	2.057	-0.052	-0.209	-0.453	-0.089	11111	1.05	39468.7759	1
936	2.064	-0.052	-0.254	-0.486	-0.100	11111	1.08	39473.6355	1
937	4.853	0.439	-0.112			11100	1.67	38702.6250	3
937	4.875	0.441	-0.132			11100	1.24	38702.6983	3
937	4.891	0.453	-0.148			11100	1.09	38702.7608	3
937	4.902	0.438	-0.144			11100	1.08	38702.8687	3
937	4.892	0.447	-0.136			11100	1.20	38702.9271	3
937	4.887	0.448	-0.136			11100	1.32	38704.6739	3
937	4.902	0.451	-0.133			11100	1.10	38704.7473	3
937	4.920	0.459	-0.133			11100	1.05	38704.8276	3
937	4.912	0.452	-0.144			11100	1.11	38704.8873	3
937	4.903	0.439	-0.135			11100	1.20	38704.9223	3
937	4.922	0.429	-0.100	-0.364	0.055	11111	1.05	39459.7671	1
937	4.909	0.448	-0.124	-0.378	0.042	11111	1.05	39509.6118	1
941	5.335	0.882	0.254	0.102	0.100	11111	1.02	39018.9630	3
941	5.363	0.891	0.222	0.080	0.105	11111	1.02	39055.8550	3
947	6.439	1.036	0.324	0.183	0.152	11111	1.01	39018.9737	3
947	6.444	1.068	0.302	0.187	0.164	11111	1.01	39055.8649	3
951	5.984	0.920	0.271	0.136	0.136	11111	1.03	39025.9491	3
951	6.023	0.954	0.254	0.135	0.113	11111	1.03	39055.8748	3
972	4.850	-0.007	0.027	0.001	-0.035	11111	1.02	39026.9314	3
972	4.891	-0.002	0.027	0.022	-0.062	11111	1.03	39055.8854	3
984	5.134	0.202	-0.028			11100	1.50	38705.7431	3
984	5.170	0.188	-0.026	-0.109	-0.003	11111	1.34	39056.8436	3
985	4.651	-0.142	-0.500	-0.930	-0.134	11111	1.19	39026.9433	3
985	4.631	-0.156	-0.479	-0.916	-0.144	11111	1.19	39056.8589	3
991	7.278	1.380	0.580			11100	1.02	38705.7817	3
991	7.319	1.435	0.472	0.429	0.251	11111	1.00	39056.8693	3
996	5.784	0.509	-0.091	-0.366	0.020	11111	1.15	39026.9542	3
996	5.857	0.523	-0.083	-0.371	0.033	11111	1.15	39057.8691	3
999	7.235	1.637	0.601	0.541	0.340	11111	1.00	39028.9397	3
999	7.235	1.628	0.616	0.526	0.340	11111	1.01	39057.8781	3
1002	5.095	0.085	0.071	-0.008	-0.051	11111	1.02	39028.9507	3
1002	5.078	0.069	0.078	-0.013	-0.047	11111	1.04	39057.8983	3
1017	2.479	0.345	-0.008			11100	1.06	38641.9584	1
1017	2.515	0.346	-0.034			11100	1.06	38704.8509	3
1017	2.532	0.358	-0.022			11100	1.05	38751.6839	3
1017	2.496	0.348	-0.057			11100	1.05	38752.7147	3
1017	2.485	0.316	0.020			11100	1.05	38764.6518	1
1017	2.486	0.347	-0.035	0.214	0.145	11111	1.05	39406.8976	1

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
1017	2.515	0.351	-0.028	0.222	0.119	11111	1.09	39409.9497	3
1017	2.543	0.347	-0.048	0.211	0.122	11111	1.05	39448.8009	1
1017	2.505	0.343	-0.031	0.225	0.132	11111	1.21	39456.6542	1
1017	2.509	0.337	-0.029	0.223	0.134	11111	1.10	39456.6984	1
1017	2.469	0.318	-0.020	0.236	0.139	11111	1.08	39459.7045	1
1017	2.523	0.335	-0.018	0.240	0.142	11111	1.13	39459.8375	1
1017	2.506	0.347	-0.021	0.230	0.136	11111	1.08	39468.7873	1
1017	2.491	0.346	-0.054	0.211	0.139	11111	1.18	39473.6160	1
1030	5.011	0.748	0.073	-0.061	0.179	11111	1.12	39028.9757	3
1030	4.941	0.691	0.088	-0.030	0.182	11111	1.09	39091.7598	1
1034	4.945	-0.105	-0.341	-0.664	-0.115	11111	1.04	39029.9372	3
1034	4.897	-0.113	-0.332	-0.689	-0.126	11111	1.05	39135.6306	1
1035	4.796	0.122	-0.383	-0.425	0.016	11111	1.13	39029.9483	3
1035	4.813	0.135	-0.392	-0.467	0.032	11111	1.13	39135.6437	1
1038	3.723	-0.046	-0.181	-0.422	-0.111	11111	1.11	39029.9687	3
1038	3.606	-0.081	-0.183	-0.439	-0.089	11111	1.08	39091.7695	1
1040	5.216	0.191	-0.362	-0.329	0.069	11111	1.12	39044.8943	3
1040	5.323	0.181	-0.329	-0.331	0.062	11111	1.12	39135.6552	1
1040	5.163	0.155	-0.371	-0.362	0.066	11111	1.11	39408.8968	3
1044	4.524	-0.116	-0.372	-0.722	-0.124	11111	1.05	39044.8835	3
1044	4.519	-0.126	-0.363	-0.717	-0.128	11111	1.05	39139.6554	3
1046	5.191	0.068	0.058	-0.012	-0.011	11111	1.09	39045.8808	3
1046	5.198	0.074	0.074	-0.031	-0.023	11111	1.09	39139.6648	3
1052	6.739	1.428	0.544	0.400	0.321	11111	1.04	39045.8898	3
1052	6.728	1.428	0.541	0.388	0.378	11111	1.05	39139.6745	3
1066	5.972	1.084	0.274			11100	1.08	38705.7986	3
1066	5.949	1.025	0.267	0.158	0.157	11111	1.06	39147.6177	3
1070	4.611	-0.088	-0.186	-0.267	-0.103	11111	1.26	39045.9025	3
1070	4.608	-0.086	-0.178	-0.284	-0.094	11111	1.27	39147.6278	3
1084	5.060	0.801	0.178			11100	2.04	38702.7081	3
1084	5.065	0.810	0.134			11100	1.36	38702.8139	3
1084	5.077	0.785	0.158			11100	1.41	38702.8823	3
1084	5.068	0.779	0.161			11100	1.71	38702.9360	3
1084	5.015	0.781	0.142			11100	2.44	38704.6824	3
1084	5.073	0.788	0.154			11100	1.53	38704.7559	3
1084	5.089	0.799	0.150			11100	1.35	38704.8361	3
1084	5.066	0.781	0.169			11100	1.49	38704.8965	3
1084	5.054	0.793	0.158			11100	1.72	38704.9312	3
1084	5.071	0.789	0.175			11100	1.52	38705.7548	3
1084	5.061	0.787	0.210			11100	2.25	38705.9667	3
1084	5.095	0.795	0.172	-0.175	0.049	11111	1.37	39017.0064	3
1084	5.079	0.784	0.170	-0.181	0.065	11111	1.36	39018.9947	3
1084	5.068	0.774	0.185	-0.163	0.037	11111	1.35	39025.9328	3
1084	5.120	0.793	0.172	-0.171	0.046	11111	1.35	39028.9267	3
1084	5.084	0.792	0.191	-0.154	0.073	11111	2.86	39042.7429	3
1084	5.046	0.770	0.193	-0.154	0.036	11111	1.38	39045.9323	3
1084	5.091	0.791	0.178	-0.184	0.088	11111	2.10	39054.7407	3
1084	5.083	0.778	0.158	-0.178	0.049	11111	2.66	39056.7106	3
1084	5.097	0.796	0.173	-0.189	0.051	11111	2.33	39057.7205	3
1084	5.108	0.789	0.175	-0.148	0.056	11111	2.16	39060.7207	3
1084	5.098	0.787	0.162	-0.190	0.047	11111	2.10	39061.7218	3
1084	5.151	0.777	0.193	-0.146	0.012	11111	1.35	39091.7797	1
1084	5.044	0.757	0.207	-0.071	-0.048	11111	1.45	39172.6072	3
1084	5.054	0.771	0.177	-0.177	0.044	11111	2.32	39172.6925	3
1084	5.048	0.770	0.165	-0.187	0.053	11111	1.43	39173.6003	3
1084	5.067	0.785	0.169	-0.181	0.042	11111	2.44	39173.6948	3
1084	5.032	0.788	0.183	-0.155	0.013	11111	1.37	39174.5723	3
1084	4.962	0.771	0.179	-0.173	0.065	11111	2.38	39174.6895	3
1084	5.057	0.792	0.145	-0.185	0.047	11111	1.41	39175.5885	3
1084	5.041	0.777	0.183	-0.177	0.044	11111	2.44	39175.6892	3
1084	5.068	0.782	0.170	-0.198	0.054	11111	1.41	39176.5831	3
1084	5.020	0.787	0.165	-0.191	0.040	11111	2.66	39176.6944	3
1084	5.059	0.790	0.196	-0.151	0.016	11111	2.03	39372.8741	3
1084	5.092	0.793	0.168	-0.173	0.106	11111	1.37	39376.0189	1
1084	5.058	0.766	0.176	-0.143	0.039	11111	1.35	39377.9982	1
1084	5.065	0.782	0.177	-0.170	0.057	11111	1.35	39476.7100	1
1084	5.103	0.808	0.157	-0.186	0.049	11111	1.37	39479.6773	1
1084	5.081	0.777	0.170	-0.165	0.057	11111	1.57	39479.7902	1
1084	5.049	0.789	0.181	-0.174	0.061	11111	1.35	39482.6950	3
1084	5.063	0.787	0.177	-0.177	0.045	11111	6.60	39487.8913	3
1084	5.131	0.761	0.174	-0.161	0.065	11111	1.56	39488.6049	3
1084	5.053	0.764	0.181	-0.165	0.060	11111	1.56	39488.7641	3
1087	4.131	-0.103	-0.427	-0.737	-0.083	11111	1.04	39045.9120	3
1087	4.107	-0.102	-0.420	-0.745	-0.096	11111	1.08	39175.5998	3
1101	5.103	0.401	-0.186			11100	1.19	38705.8108	3
1101	5.106	0.379	-0.171			11100	1.24	38786.6581	1
1101	5.088	0.394	-0.158	-0.398	0.041	11111	1.23	39409.8557	3
1122	2.879	-0.113	-0.382	-0.627	-0.104	11111	1.04	39046.8803	1
1122	2.842	-0.095	-0.373	-0.618	-0.131	11111	1.08	39175.6087	3
1122	2.903	-0.117	-0.396	-0.620	-0.125	11111	1.05	39448.8271	1
1129	5.941	0.509	-0.114	-0.202	0.049	11111	1.16	39046.8937	1
1129	5.868	0.509	-0.098	-0.202	0.037	11111	1.21	39175.6187	3
1131	3.884	-0.062	-0.521			11100	1.00	38705.8207	3
1131	3.805	-0.099	-0.521	-0.993	-0.115	11111	1.07	39176.6134	3
1135	4.414	0.312	-0.054			11100	1.02	38705.8312	3
1135	4.385	0.288	-0.050	0.085	0.088	11111	1.09	39176.6232	3
1135	4.331	0.281	-0.069	0.078	0.095	11111	1.06	39372.9492	3
1136	4.934	0.790	0.229	-0.006	0.036	11111	1.39	39050.8535	3
1136	4.926	0.809	0.192	-0.049	0.066	11111	1.42	39176.5927	3
1138	5.562	0.113	0.065	0.037	-0.011	11111	1.28	39050.8649	3
1138	5.542	0.121	0.035	0.010	-0.016	11111	1.29	39372.9630	3
1140	5.421	-0.038	-0.238	-0.471	-0.104	11111	1.04	39482.7483	3
1142	3.571	-0.107	-0.298	-0.464	-0.106	11111	1.01	39042.9284	3
1142	3.540	-0.144	-0.293	-0.465	-0.096	11111	1.03	39375.9641	1
1142	3.569	-0.093	-0.316	-0.491	-0.122	11111	1.01	39482.7137	3
1144	5.559	-0.093	-0.218	-0.463	-0.099	11111	1.02	39042.9386	3
1144	5.540	-0.099	-0.232	-0.473	-0.103	11111	1.02	39375.9735	1
1145	4.158	-0.110	-0.310	-0.574	-0.090	11111	1.03	39042.9476	3
1145	4.103	-0.133	-0.263	-0.535	-0.115	11111	1.02	39375.9816	1
1145	4.178	-0.090	0.000	-0.580	-0.113	11011	1.09	39482.7764	3
1148	4.685	0.019	0.013	0.160	-0.008	11111	1.29	39050.8752	3
1148	4.701	0.027	-0.028	0.116	-0.030	11111	1.30	39372.9730	3
1149	3.797	-0.103	-0.313	-0.475	-0.083	11111	1.01	39050.8859	3
1149	3.718	-0.123	-0.267	-0.490	-0.068	11111	1.01	39375.9902	1
1151	5.724	-0.055	-0.130	-0.301	-0.095	11111	1.01	39050.8958	3
1151	5.706	-0.038	-0.156	-0.342	-0.079	11111	1.07	39377.9333	1
1155	7.691	1.771	0.668	0.770	0.469	11111	1.20	39050.9193	3
1155	7.604	1.772	0.681	0.797	0.421	11111	1.24	39372.9398	3
1156	4.144	-0.030	-0.367	-0.549	-0.089	11111	1.02	39051.8669	3
1156	4.090	-0.065	-0.354	-0.574	-0.096	11111	1.06	39377.9422	1
1156	4.107	-0.071	-0.349	-0.555	-0.110	11111	1.04	39409.8676	3
1162	7.319	1.753	0.714			11100	1.44	38751.7439	3
1162	7.295	1.728	0.699	0.626	0.470	11111	1.51	39176.6030	3
1165	2.758	-0.134	-0.255			11100	1.05	38751.7602	3
1165	2.726	-0.106	-0.331	-0.423	-0.084	11111	1.04	39377.9510	1
1165	2.747	-0.096	-0.323	-0.396	-0.103	11111	1.03	39409.8784	3
1165	2.712	-0.131	-0.318	-0.372	-0.093	11111	1.01	39488.6827	3
1165	2.732	-0.104	-0.330	-0.386	-0.092	11111	1.04	39488.7331	3
1172	5.371	-0.071	-0.241	-0.397	-0.091	11111	1.01	39051.8795	3
1172	5.329	-0.076	-0.232	-0.417	1.438	11110	1.03	39377.9609	1
1172	5.313	-0.101	-0.225	-0.387	-0.088	11111	1.02	39488.6689	3
1178	3.548	-0.088	-0.301	-0.403	-0.069	11111	1.01	39051.8900	3
1178	3.483	-0.099	-0.296	-0.447	-0.075	11111	1.02	39377.9703	1
1178	3.511	-0.097	-0.289	-0.429	-0.113	11111	1.06	39487.6416	3
1180	4.903	-0.097	-0.300	-0.555	-0.081	11111	1.03	39052.8575	3
1180	4.886	-0.086	-0.312	-0.572	-0.078	11111	1.02	39377.9792	1
1180	4.896	-0.092	-0.302	-0.542	-0.116	11111	1.02	39409.8902	3
1180	0.000	-0.102	-0.297	-0.525	-0.125	01111	1.04	39487.6525	3
1183	6.107	-0.038	-0.096	-0.223	-0.103	11111	1.37	39487.8322	3
1203	2.999	-0.058	-0.568	-1.036	-0.066	11111	1.01	39052.8677	3
1203	2.967	-0.056	-0.587	-1.030	-0.115	11111	1.00	39409.9012	3
1204	4.878	-0.063	-0.105	-0.186	-0.063	11111	1.16	39052.8791	3
1204	4.817	-0.083	-0.120	-0.212	-0.081	11111	1.16	39408.9081	3
1211	5.461	0.491	0.091	-0.049	0.084	11111	1.23	39052.8890	3
1211	5.481	0.509	0.088	-0.028	0.061	11111	1.26	39457.7493	1
1220	2.631	-0.192	-0.642	-1.206	-0.146	11111	1.04	39053.8395	3
1220	2.610	-0.205	-0.630	-1.193	-0.163	11111	1.03	39411.8680	1
1228	4.021	-0.104	-0.652	-1.212	-0.109	11111	1.03	39053.8489	3
1228	3.995	-0.102	-0.636	-1.201	-0.122	11111	1.01	39411.8815	1
1231	5.769	1.707	0.672	0.575	0.444	11111	1.48	39053.8583	3
1231	5.691	1.683	0.664	0.577	0.430	11111	1.48	39440.7985	1
1239	3.594	-0.093	-0.408	-0.780	-0.128	11111	1.08	39053.8682	3
1239	3.251	-0.111	-0.394	-0.751	-0.144	11111	1.13	39440.7752	1
1251	3.946	0.040	0.016			11100	1.44	38708.7277	3
1251	3.882	0.059	0.085			11100	1.16	38786.6722	1
1251	3.911	0.034	0.050	-0.004	-0.048	11111	1.12	39408.9210	3
1256	6.026	0.989	0.164			11100	1.16	38708.7513	3
1256	6.197	1.038	0.189	0.303	0.228	11111	1.02	39091.8035	1
1261	4.174	-0.052	-0.135			11100	1.12	38708.7647	3
1261	4.337	-0.024	-0.062	0.038	-0.048	11111	1.05	39135.6712	1
1273	3.990	-0.097	-0.423	-0.737	-0.093	11111	1.20	39019.8814	3
1273	4.060	-0.073	-0.389	-0.754	-0.091	11111	1.04	39135.6816	1
1273	3.997	-0.101	-0.404	-0.740	-0.107	11111	1.04	39409.9146	3
1298	4.575	0.241	-0.055	-0.096	0.045	11111	1.70	39019.8867	3
1298	4.528	0.244	-0.038	-0.098	0.009	11111	1.29	39147.6416	3
1303	5.622	0.748	0.052			11100	1.05	38751.6959	3
1303	5.596	0.719	0.069	0.011	0.189	11111	1.04	39147.6531	3

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
1306	6.173	0.757	0.120	0.020	0.076	11111	1.15	39019.8972	3
1306	6.155	0.775	0.141	0.040	0.072	11111	1.01	39148.6334	3
1311	6.070	0.641	0.008			11100	1.12	38751.7728	3
1311	6.033	0.647	0.065	-0.062	0.110	11111	1.09	39148.6427	3
1318	6.837	1.132	0.437	0.328	0.181	11111	1.64	39019.9080	3
1318	6.767	1.137	0.391	0.254	0.176	11111	1.36	39148.6518	3
1319	6.866	0.295	-0.136	-0.345	0.032	11111	1.05	39509.6406	1
1320	4.205	-0.082	-0.399			11100	1.15	38751.7828	3
1320	4.107	-0.072	-0.383	-0.718	-0.135	01111	1.09	39150.6271	3
1324	4.689	0.030	0.024	0.037	-0.036	11111	1.05	39025.9888	3
1324	4.615	0.039	0.049	0.044	-0.066	01111	1.05	39150.6379	3
1324	4.671	0.040	0.016	0.038	-0.042	11111	1.05	39409.9269	3
1325	5.654	0.663	0.096	-0.254	0.117	11111	1.33	39026.0096	3
1325	5.537	0.677	0.083	-0.260	0.084	01111	1.32	39150.6574	3
1325	5.622	0.674	0.078	-0.252	0.099	11111	1.32	39431.8881	1
1329	5.360	0.238	-0.036	-0.170	0.013	11111	1.02	39026.9887	3
1329	5.267	0.202	0.000	-0.177	-0.014	11011	1.02	39408.9325	3
1346	5.216	0.880	0.182	0.062	0.093	11111	1.05	39026.9976	3
1346	5.124	0.848	0.196	0.047	0.119	11111	1.05	39408.9483	3
1350	4.816	-0.082	-0.358	-0.690	-0.109	11111	1.03	39028.9876	3
1350	4.779	-0.090	-0.348	-0.677	-0.140	11111	1.03	39409.9384	3
1351	6.024	0.233	-0.059	-0.117	0.068	11111	1.05	39502.6815	1
1351	5.982	0.239	-0.038	-0.190	0.007	11111	1.13	39506.6047	1
1356	5.623	0.188	-0.006	-0.107	0.009	11111	1.03	39411.9068	1
1356	5.602	0.199	0.000	-0.092	0.009	11111	1.09	39506.6172	1
1373	5.358	0.890	0.216	0.108	0.103	11111	1.04	39028.9966	3
1373	5.267	0.863	0.000	0.070	0.114	11011	1.04	39408.9601	3
1376	6.110	0.276	-0.030	-0.158	0.021	11111	1.06	39506.6319	1
1380	5.092	0.155	0.056	0.007	-0.019	11111	1.05	39029.0044	3
1380	5.052	0.150	0.048	-0.025	0.004	11111	1.04	39411.8950	1
1385	6.525	0.265	-0.101	-0.273	0.020	11111	1.04	39507.6469	1
1387	4.511	0.156	0.063	0.045	-0.005	11111	1.02	39029.9796	3
1387	4.423	0.129	0.070	0.022	0.004	11111	1.02	39411.9221	1
1389	4.388	0.077	0.054	-0.014	-0.029	11111	1.04	39029.9966	3
1389	4.408	0.084	0.050	-0.025	-0.021	11111	1.05	39431.9087	1
1392	4.702	0.203	-0.018	0.002	0.048	11111	1.02	39029.9879	3
1392	4.665	0.181	-0.019	-0.020	0.049	11111	1.01	39411.9338	1
1394	4.828	0.172	0.007	-0.026	0.043	11111	1.05	39044.9194	3
1394	4.864	0.188	-0.004	-0.040	0.036	11111	1.05	39411.9464	1
1396	6.167	0.827	0.123	-0.003	0.176	11111	1.05	39044.9478	3
1396	6.263	0.834	0.000	0.018	0.240	11011	1.05	39448.8428	1
1408	6.359	0.256	-0.073	-0.225	0.019	11111	1.06	39506.6449	1
1409	5.209	0.960	0.223			11100	1.04	38705.8970	3
1409	5.138	0.931	0.234	0.111	0.124	11111	1.07	39431.9298	1
1411	5.393	0.889	0.193			11100	1.08	38705.9095	3
1411	5.357	0.866	0.105			11100	1.06	38752.7685	3
1411	5.404	0.862	0.082			11100	1.07	38786.6846	1
1411	5.362	0.831	0.175	0.027	0.108	11111	1.07	39502.6440	1
1411	5.313	0.801	0.212	0.069	0.064	11111	1.17	39506.5908	1
1411	5.340	0.856	0.177	0.017	0.129	11111	1.07	39509.6266	1
1412	3.711	0.186	0.027			11100	1.08	38752.7797	3
1412	3.685	0.162	0.013			11100	1.09	38786.6943	1
1412	3.670	0.160	0.042	0.019	0.013	11111	1.19	39504.5919	1
1412	3.652	0.183	0.023	-0.001	0.023	11111	1.17	39505.5961	1
1412	3.687	0.187	0.024	0.020	-0.013	11111	1.10	39507.6166	1
1412	3.676	0.185	0.030	0.021	0.016	11111	1.13	39508.6009	1
1412	3.711	0.169	0.043	0.017	0.015	11111	1.12	39509.7304	1
1427	5.012	0.143	0.069	-0.001	0.016	11111	1.05	39044.9610	3
1427	5.070	0.156	0.054	-0.001	-0.001	11111	1.04	39459.7920	1
1437	7.136	1.313	0.485	0.399	0.267	11111	1.18	39045.9419	3
1437	7.120	1.320	0.515	0.413	0.256	11111	1.38	39473.6792	1
1444	5.085	0.215	-0.016	-0.107	0.006	11111	1.05	39051.9291	3
1444	5.005	0.185	0.005	-0.083	0.020	11111	1.05	39472.7539	1
1454	6.146	0.946	0.108	0.026	0.104	11111	1.01	39051.9385	3
1454	6.029	0.942	0.148	0.064	0.085	11111	1.12	39474.6789	1
1457	3.598	1.660	0.668	0.589	0.395	11111	1.04	39019.0044	3
1457	3.659	1.682	0.681	0.583	0.401	11111	1.04	39431.8677	1
1458	4.527	0.144	0.038	-0.064	0.027	11111	1.08	39052.9086	3
1458	4.506	0.153	0.020	-0.056	-0.007	11111	1.18	39431.9510	1
1463	3.621	-0.193	-0.559	-1.075	-0.169	11111	1.24	39052.9314	3
1463	3.653	-0.190	-0.546	-1.043	-0.179	11111	1.27	39499.6620	1
1473	4.477	0.137	0.063	0.018	-0.005	11111	1.07	39053.8974	3
1473	4.519	0.137	0.072	0.024	0.007	11111	1.08	39457.7885	1
1479	4.924	0.150	0.051	0.001	-0.009	11111	1.05	39053.9103	3
1479	4.915	0.156	0.076	0.020	0.002	11111	1.04	39472.7718	1
1481	5.608	1.005	0.314	0.132	0.116	11111	1.46	39053.9304	3
1481	5.580	1.002	0.323	0.170	0.121	11111	1.48	39499.6748	1
1496	7.064	1.551	0.623	0.686	0.439	11111	1.63	39054.9095	3
1496	7.031	1.550	0.633	0.662	0.493	11111	1.63	39499.6876	1
1497	4.090	-0.102	-0.361	-0.773	-0.137	11111	1.01	39055.9228	3
1497	4.137	-0.102	-0.353	-0.762	-0.133	11111	1.02	39479.7664	1
1520	3.791	-0.125	-0.417	-0.754	-0.129	11111	1.24	39055.9323	3
1520	3.820	-0.127	-0.410	-0.734	-0.132	11111	1.23	39500.6923	1
1542	4.263	-0.105	-0.651	-1.169	-0.125	11111	1.22	39056.8809	3
1542	4.315	-0.117	-0.629	-1.188	-0.142	11111	1.20	39459.8135	1
1543	3.822	0.309	-0.186	-0.426	0.023	11111	1.12	39056.8911	3
1543	3.834	0.317	-0.177	-0.421	0.012	11111	1.14	39461.7706	1
1544	4.375	0.027	-0.015	0.008	-0.042	11111	1.10	39056.9010	3
1544	4.401	0.001	0.003	0.028	-0.025	11111	1.09	39459.8025	1
1547	5.383	0.186	0.020	-0.059	0.009	11111	1.03	39057.9235	3
1547	5.448	0.184	0.013	-0.069	0.026	11111	1.03	39479.7519	1
1547	5.434	0.178	0.019	-0.047	0.009	11111	1.04	39500.7318	1
1552	3.381	-0.177	-0.530	-0.993	-0.158	11111	1.13	39057.9325	3
1552	3.465	-0.158	-0.555	-0.995	-0.165	11111	1.14	39461.7832	1
1560	4.698	0.194	-0.014	0.012	0.051	11111	1.28	39057.9418	3
1560	4.730	0.189	-0.013	0.039	0.052	11111	1.29	39500.6798	1
1567	3.466	-0.176	-0.541	-0.987	-0.177	11111	1.41	39059.8155	3
1567	3.456	-0.175	-0.552	-0.999	-0.151	11111	1.32	39473.7007	1
1568	4.505	-0.010	-0.014	0.030	-0.049	11111	1.17	39059.8261	3
1568	4.455	-0.033	-0.017	0.038	-0.037	11111	1.07	39459.8259	1
1570	4.842	0.090	0.078	-0.020	-0.056	11111	1.21	39059.8372	3
1570	4.796	0.115	0.058	-0.041	-0.029	11111	1.13	39472.7370	1
1577	5.417	1.588	0.592	0.507	0.302	11111	1.07	39059.8469	3
1577	5.283	1.584	0.568	0.500	0.288	11111	1.23	39474.6627	1
1580	6.038	1.088	0.369	0.208	0.209	11111	1.13	39059.8560	3
1580	5.991	1.104	0.354	0.212	0.212	11111	1.12	39457.7698	1
1592	5.051	0.045	0.062	-0.091	-0.055	11111	1.04	39059.8659	3
1592	4.947	0.059	0.047	-0.089	-0.063	11111	1.28	39474.6502	1
1601	6.842	1.392	0.457			11100	1.23	38705.9386	3
1601	6.853	1.383	0.523	0.452	0.218	11111	1.17	39500.7191	1
1603	5.435	0.695	0.032	-0.018	0.202	11111	1.13	39059.9169	3
1603	5.359	0.709	0.005	-0.034	0.242	11111	1.32	39473.6588	1
1605	3.632	0.200	-0.155			11100	1.02	38702.8908	3
1605	3.633	0.200	-0.140			11100	1.03	38704.8595	3
1605	3.726	0.249	-0.135			11100	1.04	38751.7232	3
1605	3.684	0.244	-0.118			11100	1.03	38752.7340	3
1605	3.662	0.210	-0.124			11100	1.03	38789.6306	1
1605	3.741	0.235	-0.113			11100	1.02	38791.6453	1
1605	3.653	0.220	-0.124	0.355	0.237	11111	1.03	39172.6317	3
1605	3.616	0.202	-0.160	0.289	0.268	11111	1.05	39406.9212	1
1611	5.175	0.173	0.006	0.056	0.043	11111	1.42	39059.9280	3
1611	5.150	0.200	-0.029	0.043	0.042	11111	1.41	39468.8033	1
1612	5.605	0.855	-0.090	-0.339	-0.068	11111	1.02	39059.9386	3
1612	5.518	0.838	-0.070	-0.349	-0.056	11111	1.02	39172.6415	3
1612	5.525	0.837	-0.125	-0.371	-0.049	11111	1.03	39406.9341	1
1617	4.584	-0.169	-0.448	-0.896	-0.157	11111	1.32	39059.9490	3
1617	4.551	-0.155	-0.467	-0.910	-0.155	11111	1.30	39500.7053	1
1620	4.869	0.148	0.034			11100	1.03	38752.7921	3
1620	0.000	0.147	0.091			01100	1.03	38791.6813	1
1621	4.857	-0.040	-0.054	-0.180	-0.083	11111	1.71	39059.9584	3
1621	4.817	-0.041	-0.080	-0.193	-0.069	11111	1.65	39499.7006	1
1637	5.386	0.210	-0.098	-0.258	-0.003	11111	1.06	39042.9733	3
1637	5.468	0.238	-0.120	-0.301	0.014	11111	1.06	39154.6740	3
1638	4.604	-0.033	-0.112	-0.118	-0.028	11111	1.05	39042.9836	3
1638	4.562	-0.037	-0.136	-0.115	-0.043	11111	1.06	39173.6402	3
1641	2.905	-0.158	-0.403	-0.812	-0.136	11111	1.01	39044.9714	3
1641	2.919	-0.143	-0.409	-0.820	-0.178	11111	1.03	39173.6493	3
1657	5.009	-0.045	-0.068	-0.236	-0.070	11111	1.26	39044.9810	3
1657	5.004	-0.030	-0.078	-0.244	-0.099	11111	1.31	39173.6586	3
1666	3.009	0.090	0.022			11100	1.36	38786.7321	1
1666	3.013	0.145	0.100			11100	1.29	38791.6920	1
1676	5.240	0.206	-0.003	0.020	0.054	11111	1.06	39044.9909	3
1676	5.246	0.239	-0.008	0.003	0.025	11111	1.10	39173.6677	3

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
1679	4.005	-0.171	-0.612	-1.112	-0.143	11111	1.33	39051.9486	3
1679	3.971	-0.191	-0.586	-1.086	-0.176	11111	1.45	39173.6765	3
1689	5.157	0.188	0.005	-0.097	-0.007	11111	1.01	39051.9589	3
1689	5.103	0.170	0.028	-0.081	-0.037	11111	1.07	39173.6852	3
1696	4.329	-0.058	-0.285	-0.562	-0.100	11111	1.41	39051.9695	3
1696	4.270	-0.098	-0.220	-0.507	-0.109	11111	1.45	39174.6528	3
1698	6.444	1.187	0.324	0.219	0.129	11111	1.17	39051.9803	3
1698	6.391	1.166	0.368	0.265	0.155	11111	1.20	39174.6623	3
1702	3.105	-0.099	-0.257	-0.480	-0.104	11111	1.51	39052.9505	3
1702	3.113	-0.102	-0.239	-0.454	-0.095	11111	1.64	39174.6712	3
1705	4.203	-0.092	-0.275	-0.426	-0.112	11111	1.42	39052.9417	3
1705	4.204	-0.111	-0.256	-0.399	-0.109	11111	1.58	39174.6805	3
1708	1.256	0.633	-0.007	-0.133	0.094	11111	1.04	39019.0153	3
1708	1.250	0.668	-0.022	-0.165	0.122	11111	1.12	39174.6998	3
1713	0.065	-0.140	-0.524			11100	1.44	38751.7091	3
1713	0.052	-0.113	-0.552			11100	1.32	38752.7569	3
1713	0.096	-0.155	-0.534			11100	1.34	38764.7124	1
1713	0.062	-0.109	-0.570	-0.817	-0.094	11111	1.32	39406.9618	1
1726	6.675	1.251	0.372			11100	1.01	38751.8007	3
1726	6.661	1.233	0.406			11100	1.02	38752.8045	3
1729	5.599	0.476	-0.131			11100	1.03	38751.8145	3
1729	5.586	0.456	-0.109	-0.366	0.052	11111	1.03	39175.6571	3
1729	5.601	0.456	-0.130	-0.368	0.027	11111	1.01	39409.9731	3
1735	3.410	-0.111	-0.315	-0.559	-0.126	11111	1.29	39052.9602	3
1735	3.400	-0.095	-0.334	-0.575	-0.135	11111	1.32	39175.6478	3
1756	3.937	-0.222	-0.655	-1.244	-0.173	11111	1.44	39052.9692	3
1756	3.910	-0.249	-0.641	-1.242	-0.164	11111	1.45	39175.6390	3
1765	4.454	-0.171	-0.525	-0.981	-0.164	11111	1.18	39053.9433	3
1765	4.474	-0.153	-0.512	-0.968	-0.155	11111	1.24	39175.6680	3
1770	4.765	-0.165	-0.547			11100	1.20	38705.9548	3
1770	4.715	-0.181	-0.559	-1.076	-0.161	11111	1.14	39053.9521	3
1770	4.764	-0.155	-0.573	-1.101	-0.147	11111	1.21	39501.6688	1
1781	5.386	-0.190	-0.566	-1.098	-0.167	11111	1.18	39053.9616	3
1781	5.387	-0.172	-0.552	-1.103	-0.172	11111	1.27	39175.6774	3
1784	5.591	0.806	0.127	-0.053	0.152	11111	1.32	39053.9713	3
1784	5.589	0.803	0.148	-0.036	0.146	11111	1.46	39501.6559	1
1788	3.018	-0.209	-0.652			11100	1.22	38708.9013	3
1788	3.075	-0.192	-0.618			11100	1.28	38787.7300	1
1788	3.073	-0.199	-0.600	-1.156	-0.156	11111	1.22	39408.9730	3
1789	4.620	-0.201	-0.592	-1.095	-0.183	11111	1.16	39054.9375	3
1789	4.677	-0.208	-0.580	-1.089	-0.155	11111	1.21	39501.6807	1
1790	1.249	-0.209	-0.598			11100	1.13	38708.9258	3
1790	1.331	-0.193	-0.556	-1.051	-0.155	11111	1.14	39501.6926	1
1791	1.495	-0.127	-0.345	-0.592	-0.108	11111	1.01	39440.9085	1
1810	4.576	-0.193	-0.495			11100	1.10	38708.9682	3
1810	4.663	-0.150	-0.497	-0.979	-0.143	11111	1.02	39499.7449	1
1811	4.250	-0.191	-0.599	-1.134	-0.186	11111	1.15	39054.9492	3
1811	4.287	-0.196	-0.580	-1.125	-0.181	11111	1.16	39501.7042	1
1829	4.030	0.653	-0.024	-0.177	0.171	11111	1.67	39054.9599	3
1829	4.013	0.652	-0.006	-0.169	0.192	11111	1.71	39476.7659	1
1839	4.007	-0.095	-0.352	-0.732	-0.141	11111	1.12	39054.9702	3
1839	4.002	-0.124	-0.327	-0.701	-0.147	11111	1.20	39504.6603	1
1843	5.047	0.055	-0.496	-0.785	-0.037	11111	1.00	39055.9448	3
1843	5.111	0.083	-0.516	-0.796	-0.059	11111	1.20	39474.6942	1
1845	7.969	1.859	0.679	0.837	0.547	11111	1.03	39055.9566	3
1845	7.842	1.855	0.690	0.889	0.426	11111	1.04	39499.7572	1
1852	1.864	-0.212	-0.679	-1.282	-0.165	11111	1.18	39055.9659	3
1852	1.915	-0.219	-0.678	-1.281	-0.174	11111	1.24	39504.6731	1
1855	4.240	-0.239	-0.709			11100	2.18	38705.7684	3
1855	4.228	-0.251	-0.660			11100	1.31	38705.9267	3
1855	4.266	-0.229	-0.700			11100	2.70	38708.7395	3
1855	4.234	-0.260	-0.629			11100	1.30	38708.9148	3
1855	4.238	-0.257	-0.678			11100	1.92	38751.6584	3
1855	4.230	-0.245	-0.673			11100	1.94	38752.6542	3
1855	4.228	-0.228	-0.676			11100	1.34	38752.7440	3
1855	4.233	-0.237	-0.721			11100	1.38	38764.6973	1
1855	4.226	-0.231				11000	1.31	38786.7053	1
1855	4.194	-0.236	-0.635			11100	1.31	38787.7071	1
1855	4.189	-0.238	-0.660			11100	1.30	38789.6679	1
1855	4.231	-0.237	-0.664			11100	2.67	38839.7055	3
1855	4.246	-0.239	-0.672	-1.268	-0.200	11111	2.39	39016.9069	3
1855	4.278	-0.235	-0.659	-1.276	-0.196	11111	2.03	39018.9193	3
1855	4.516	-0.172	-0.542	-1.077	-0.114	11111	3.74	39019.8665	3
1855	4.274	-0.239	-0.685	-1.284	-0.194	11111	2.14	39019.9104	3
1855	4.253	-0.241	-0.665	-1.276	-0.194	11111	1.31	39026.0191	3
1855	4.261	-0.239	-0.678	-1.258	-0.187	11111	2.24	39026.8861	3
1855	4.247	-0.242	-0.673	-1.273	-0.182	11111	1.30	39027.0208	3
1855	4.283	-0.202	-0.656	-1.261	-0.171	11111	2.20	39028.8824	3
1855	4.274	-0.231	-0.671	-1.266	-0.179	11111	1.30	39029.0127	3
1855	4.255	-0.246	-0.646	-1.227	-0.181	11111	2.17	39029.8814	3
1855	4.229	-0.243	-0.681	-1.275	-0.191	11111	1.32	39043.0159	3
1855	4.210	-0.248	-0.668	-1.255	-0.203	11111	1.35	39045.0238	3
1855	4.257	-0.222	-0.684	-1.269	-0.209	11111	2.49	39045.8236	3
1855	4.219	-0.239	-0.671	-1.274	-0.208	11111	2.22	39050.8214	3
1855	4.235	-0.235	-0.680	-1.297	-0.171	11111	1.35	39052.0049	3
1855	4.241	-0.230	-0.684	-1.272	-0.219	11111	1.31	39052.9779	3
1855	4.238	-0.238	-0.687	-1.282	-0.210	11111	1.32	39053.9816	3
1855	4.237	-0.230	-0.683	-1.284	-0.185	11111	1.32	39054.9801	3
1855	4.256	-0.231	-0.661	-1.261	-0.198	11111	2.48	39055.7968	3
1855	4.193	-0.246	-0.671	-1.262	-0.200	11111	1.35	39055.9932	3
1855	4.204	-0.255	-0.667	-1.276	-0.169	11111	1.40	39057.0063	3
1855	4.206	-0.233	-0.684	-1.294	-0.176	11111	1.34	39057.9817	3
1855	4.230	-0.244	-0.684	-1.275	-0.190	11111	1.30	39084.8684	1
1855	4.229	-0.233	-0.677	-1.266	-0.204	11111	1.32	39135.7062	1
1855	4.257	-0.246	-0.668	-1.271	-0.188	11111	1.30	39139.7091	3
1855	4.317	-0.241	-0.686	-1.298	-0.173	01111	2.29	39150.8392	3
1855	4.230	-0.242	-0.663	-1.269	-0.186	11111	1.32	39151.7165	3
1855	4.198	-0.233	-0.666	-1.254	-0.204	11111	2.34	39151.8385	3
1855	4.264	-0.224	-0.690	-1.295	-0.182	11111	1.31	39154.6635	3
1855	4.229	-0.233	-0.673	-1.266	-0.184	11111	2.31	39154.8289	3
1855	4.243	-0.235	-0.665	-1.270	-0.200	11111	1.39	39171.6908	1
1855	4.211	-0.241	-0.651	-1.256	-0.204	11111	1.31	39172.6182	3
1855	4.211	-0.247	-0.663	-1.269	-0.181	11111	2.23	39172.7760	3
1855	4.214	-0.234	-0.658	-1.269	-0.182	11111	1.31	39173.6090	3
1855	4.235	-0.245	-0.652	-1.265	-0.187	11111	2.23	39173.7735	3
1855	4.206	-0.254	-0.648	-1.260	-0.190	11111	1.32	39174.6022	3
1855	4.293	-0.248	-0.661	-1.262	-0.182	11111	2.31	39174.7744	3
1855	4.238	-0.230	-0.682	-1.293	-0.185	11111	1.30	39175.6283	3
1855	4.232	-0.239	-0.657	-1.270	-0.194	11111	2.34	39175.7729	3
1855	4.188	-0.239	-0.677	-1.283	-0.189	11111	1.30	39176.6331	3
1855	4.273	-0.247	-0.651	-1.252	-0.192	11111	2.21	39176.7644	3
1855	4.220	-0.238	-0.667	-1.262	-0.196	11111	1.30	39178.6096	1
1855	4.194	-0.256	-0.660	-1.268	-0.177	11111	1.30	39184.5921	1
1855	4.267	-0.238	-0.644	-1.250	-0.187	11111	1.39	39197.6182	3
1855	4.270	-0.249	-0.639	-1.253	-0.208	11111	1.35	39199.6015	3
1855	4.200	-0.250	-0.627	-1.255	-0.195	11111	1.39	39202.6046	3
1855	4.245	-0.237	-0.673	-1.275	-0.188	11111	2.79	39202.7152	3
1855	4.232	-0.251	-0.695	-1.283	-0.192	11111	1.35	39406.9473	1
1855	4.212	-0.242	-0.662	-1.277	-0.200	11111	2.30	39408.8375	3
1855	4.268	-0.229	-0.667	-1.258	-0.202	11111	2.38	39409.8312	3
1855	4.269	-0.243	-0.676	-1.267	-0.197	11111	1.31	39409.9610	3
1855	4.261	-0.247	-0.673	-1.266	-0.201	11111	1.31	39411.9586	1
1855	0.000	0.013	0.000	0.000	-0.201	00001	1.30	39433.9176	0
1855	4.232	-0.245	-0.666	-1.261	-0.187	11111	1.30	39440.8934	1
1855	4.235	-0.236	-0.669	-1.264	-0.192	11111	1.49	39441.8182	1
1855	4.206	-0.247	-0.669	-1.265	-0.189	11111	1.31	39442.8726	1
1855	4.228	-0.247	-0.686	-1.271	-0.197	11111	1.36	39443.8439	1
1855	4.259	-0.250	-0.667	-1.271	-0.164	11111	1.30	39459.8571	1
1855	4.250	-0.231	-0.662	-1.272	-0.175	11111	1.38	39468.8728	1
1855	4.232	-0.223	-0.661	-1.251	-0.218	11111	1.51	39469.7380	1
1855	4.244	-0.230	-0.679	-1.276	-0.194	11111	1.51	39470.7352	1
1855	4.223	-0.237	-0.657	-1.262	-0.191	11111	1.31	39470.8331	1
1855	4.243	-0.229	-0.668	-1.282	-0.188	11111	1.31	39473.7914	1
1855	4.250	-0.253	-0.659	-1.251	-0.196	11111	1.33	39474.7747	1
1855	4.216	-0.233	-0.665	-1.301	-0.195	11111	1.93	39482.6568	3
1855	4.237	-0.225	-0.689	-1.272	-0.178	11111	2.31	39487.6219	3
1855	4.245	-0.231	-0.681	-1.289	-0.199	11111	1.34	39487.7402	3
1855	4.225	-0.224	-0.668	-1.280	-0.198	11111	2.40	39488.6151	3
1855	4.228	-0.234	-0.686	-1.289	-0.203	11111	1.30	39488.7754	3
1855	4.229	-0.253	-0.658	-1.261	-0.189	11111	1.32	39499.7133	1
1855	0.000	0.013	0.000	0.000	-0.188	00001	1.31	39500.7490	1
1855	4.237	-0.240	-0.665	-1.277	-0.187	11111	1.30	39504.7257	1
1855	4.232	-0.243	-0.667	-1.272	-0.206	11111	1.34	39505.6840	1
1855	4.225	-0.244	-0.653	-1.269	-0.187	11111	1.40	39506.6593	1
1855	4.253	-0.233	-0.670	-1.273	-0.192	11111	1.34	39506.7527	1
1855	4.239	-0.246	-0.664	-1.277	-0.179	11111	1.42	39507.7781	1
1855	4.257	-0.249	-0.660	-1.269	-0.202	11111	1.31	39508.6939	1
1855	4.258	-0.230	-0.676	-1.278	-0.188	11111	1.42	39509.7716	1
1861	5.006	-0.199	-0.563	-1.122	-0.148	11111	1.21	39056.9363	3
1861	5.056	-0.180	-0.602	-1.141	-0.176	11111	1.24	39504.6857	1
1865	2.852	0.136	0.000	0.472	0.147	11111	1.56	39056.9461	3
1865	2.865	0.131	-0.042	0.439	0.125	11111	1.69	39476.7451	1
1868	5.043	-0.179	-0.551	-1.105	-0.151	11111	1.20	39056.9565	3
1868	5.098	-0.165	-0.573	-1.110	-0.162	11111	1.20	39468.8197	1
1876	4.161	-0.181	-0.633			11100	1.11	38752.8169	3
1876	4.170	-0.181	-0.617	-1.188	-0.170	11111	1.10	39504.7029	1
1879	3.071	-0.206	-0.659	-1.253	-0.157	11111	1.08	39057.9518	3
1879	3.138	-0.199	-0.648	-1.236	-0.163	11111	1.08	39468.8331	1
1887	4.364	-0.236	-0.645	-1.240	-0.150	11111	1.28	39057.9623	3
1887	4.422	-0.231	-0.645	-1.233	-0.182	11111	1.28	39504.7405	1
1892	4.271	-0.198	-0.581	-1.152	-0.151	11111	1.27	39057.9726	3
1892	4.316	-0.182	-0.588	-1.149	-0.183	11111	1.28	39504.7516	1
1893	4.618	-0.104	-0.648	-1.179	-0.155	11111	1.68	39060.8296	3
1893	4.569	-0.107	-0.630	-1.180	-0.131	11111	1.27	39154.6887	3
1897	4.886	-0.163	-0.630	-1.177	-0.176	11111	1.39	39171.7033	1
1897	4.901	-0.155	-0.598	-1.184	-0.169	11111	1.38	39505.6605	1
1899	2.437	-0.232	-0.661	-1.265	-0.182	11111	1.57	39060.8451	3
1899	2.405	-0.247	-0.675	-1.281	-0.186	11111	1.34	39505.6748	1

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
1901	5.650	0.186	-0.017	0.021	0.023	11111	1.45	39060.8596	3
1901	5.618	0.190	-0.013	0.020	0.044	11111	1.32	39506.6706	1
1903	1.462	-0.204	-0.670	-1.249	-0.166	11111	1.46	39061.8419	3
1903	1.427	-0.204	-0.687	-1.255	-0.156	11111	1.24	39506.6829	1
1907	5.526	0.767	0.121	-0.105	0.191	11111	1.25	39061.8517	3
1907	5.536	0.774	0.111	-0.109	0.177	11111	1.09	39507.7057	1
1908	8.667	1.627	0.628	0.515	0.564	11111	1.20	39061.8619	3
1908	8.705	1.616	0.684	0.606	0.506	11111	1.09	39499.7725	1
1910	2.717	-0.192	-0.546	-0.881	-0.141	11111	1.07	39061.8835	3
1910	2.673	-0.214	-0.546	-0.895	-0.130	11111	1.03	39440.9307	1
1931	3.425	-0.220	-0.645	-1.216	-0.198	11111	1.24	39061.9100	3
1931	3.445	-0.207	-0.644	-1.239	-0.168	11111	1.23	39506.7083	1
1934	4.397	-0.167	-0.526	-0.950	-0.141	11111	1.14	39061.9196	3
1934	4.408	-0.138	-0.534	-0.957	-0.139	11111	1.14	39506.7199	1
1937	4.979	0.112	0.067	-0.008	-0.007	11111	1.30	39061.9294	3
1937	5.011	0.136	0.037	-0.010	-0.013	11111	1.32	39506.6940	1
1946	4.643	-0.156	-0.404	-0.812	-0.136	11111	1.04	39061.9393	3
1946	4.664	-0.124	-0.435	-0.823	-0.122	11111	1.04	39473.8297	1
1948	1.433	-0.221	-0.672	-1.269	-0.173	11111	1.21	39061.9487	3
1948	1.479	-0.217	-0.690	-1.287	-0.159	11111	1.21	39506.7315	1
1963	6.770	1.062	0.335	0.157	0.242	11111	1.18	39084.9028	1
1963	6.787	1.071	0.331	0.145	0.260	11111	1.17	39506.7424	1
1995	6.020	0.813	0.153	-0.039	0.166	11111	1.01	39135.7313	1
1995	5.986	0.806	0.146	-0.018	0.156	11111	1.18	39479.6957	1
1998	3.672	0.110	0.061	-0.020	-0.031	11111	1.47	39135.7416	1
1998	3.774	0.121	0.062	-0.049	-0.030	11111	1.47	39474.8185	1
2004	0.000	0.013	0.000	0.000	-0.175	00001	1.35	39135.7512	1
2004	1.859	-0.187	-0.632	-1.168	-0.163	11111	1.60	39376.0010	1
2010	4.787	-0.044	-0.054	-0.195	-0.082	11111	1.07	39135.7608	1
2010	4.825	-0.034	-0.068	-0.196	-0.086	11111	1.07	39501.7579	1
2011	7.639	1.717	0.665	0.633	0.434	11111	1.02	39138.7070	3
2011	7.615	1.715	0.671	0.614	0.494	11111	1.01	39468.8471	1
2012	5.822	1.065	0.335	0.191	0.158	11111	1.01	39138.7166	3
2012	5.808	1.055	0.361	0.236	0.145	11111	1.02	39468.8601	1
2018	9.195	1.715	0.682	0.735	0.482	11111	1.00	39138.7304	3
2018	9.324	1.711	0.720	0.867	0.477	11111	1.00	39507.7201	1
2029	5.065	0.044	0.078	0.060	-0.055	11111	1.09	39138.7402	3
2029	5.073	0.062	0.051	0.029	-0.025	11111	1.09	39476.8177	1
2034	4.570	-0.020	0.021	0.035	-0.057	11111	1.01	39138.7503	3
2034	4.571	-0.001	-0.007	0.039	-0.045	11111	1.00	39507.7347	1
2035	5.256	0.795	0.123	-0.091	0.239	11111	1.69	39138.7598	3
2035	5.261	0.822	0.115	-0.078	0.226	11111	1.71	39476.7828	1
2047	5.219	0.423	-0.135	-0.425	0.015	11111	1.07	39140.6811	3
2047	5.262	0.444	-0.182	-0.465	0.051	11111	1.02	39473.8143	1
2061	3.670	1.795	1.110			11100	1.25	38786.7867	1
2061	3.522	0.543	0.546			11100	1.17	38787.7580	1
2061	3.451	1.696	0.629			11100	1.17	38789.6415	1
2061	3.540	1.730	0.573			11100	1.11	38791.6713	1
2061	3.720	1.602	0.563	0.728	0.518	11111	1.19	39171.7142	1
2061	3.730	1.673	0.587	0.755	0.511	11111	1.12	39406.9757	1
2077	5.321	0.884	0.253	0.074	0.138	11111	1.10	39140.6918	3
2077	5.293	0.907	0.227	0.055	0.157	11111	1.17	39479.7196	1
2084	4.683	-0.142	-0.604			11100	1.05	38705.9791	3
2084	4.631	-0.175	-0.619			11100	1.04	38789.6551	1
2085	4.171	0.229	-0.109	-0.278	0.017	11111	1.47	39140.7153	3
2085	4.220	0.238	-0.090	-0.229	0.010	11111	1.46	39474.8060	1
2088	1.977	0.050	0.076	0.031	-0.044	11111	1.03	39140.7292	3
2088	1.986	0.075	0.052	0.010	-0.010	11111	1.02	39154.7053	3
2091	7.143	1.503	0.623	0.726	0.516	11111	1.07	39140.7961	3
2095	2.512	-0.053	-0.169			11100	1.01	38752.8287	3
2095	2.426	-0.046	-0.127			11100	1.01	38789.6823	1
2113	6.500	1.136	0.416	0.266	0.342	11111	1.36	39140.8077	3
2113	6.517	1.131	0.394	0.251	0.328	11111	1.23	39507.7470	1
2124	4.373	0.170	0.000			11100	1.15	38705.9897	3
2124	4.355	0.144	0.044			11100	1.09	38789.6943	1
2124	4.386	0.148	0.054	-0.008	-0.012	11111	1.09	39504.7655	1
2128	4.762	-0.117	-0.399	-0.757	-0.147	11111	1.40	39052.0162	3
2128	4.780	-0.131	-0.362	-0.729	-0.151	11111	1.39	39172.6824	3
2134	5.437	0.716	0.020			11100	1.09	38705.9993	3
2134	5.410	0.695	0.066			11100	1.01	38789.7049	1
2135	4.925	0.023	-0.589	-1.036	-0.052	11111	1.03	39052.9995	3
2135	4.904	0.012	-0.575	-1.022	-0.062	11111	1.03	39184.6314	1
2148	5.183	0.055	0.011	0.221	0.154	11111	1.56	39054.0117	3
2148	5.175	0.036	0.014	0.259	0.160	11111	1.53	39184.6411	1
2148	5.180	0.036	0.012	0.254	0.222	11111	1.54	39506.7665	1
2155	4.745	0.046	0.055	-0.006	-0.055	11111	1.53	39054.0206	3
2155	4.743	0.043	0.053	0.011	-0.043	11111	1.50	39184.6510	1
2159	4.168	-0.141	-0.357	-0.763	-0.143	11111	1.06	39055.0049	3
2159	4.187	-0.145	-0.416	-0.827	-0.159	11111	1.06	39501.7818	1
2198	4.726	-0.148	-0.347	-0.711	-0.112	11111	1.06	39055.0138	3
2198	4.783	-0.119	-0.384	-0.743	-0.133	11111	1.06	39501.7926	1
2199	4.204	-0.150	-0.419	-0.815	-0.135	11111	1.05	39056.9787	3
2199	4.247	-0.158	-0.417	-0.801	-0.162	11111	1.10	39501.8078	1
2209	4.772	0.022	0.027	-0.029	-0.037	11111	1.26	39058.0100	3
2209	4.771	0.056	0.031	-0.049	-0.049	11111	1.44	39227.6494	3
2216	5.813	1.466	0.497	0.469	0.375	11111	1.02	39056.9887	3
2216	0.000	1.488	0.496	0.475	0.338	01111	1.02	39433.9356	0
2216	5.900	1.511	0.000	0.000	0.000	11000	1.02	39476.8371	1
2216	5.867	1.489	0.499	0.472	0.349	11111	1.03	39506.7785	1
2219	5.868	0.872	0.228	0.050	0.189	11111	1.01	39056.9973	3
2219	0.000	0.013	0.000	0.049	0.174	00011	1.00	39433.9508	0
2219	5.912	0.873	0.211	0.048	0.165	11111	1.03	39506.7902	1
2227	6.175	1.320	0.461	0.350	0.279	11111	1.29	39057.9904	3
2227	6.192	1.294	0.496	0.380	0.278	11111	1.32	39473.8742	1
2238	4.597	0.051	0.057	-0.035	-0.037	11111	1.12	39135.7843	1
2238	4.506	0.039	0.051	-0.024	-0.042	11111	1.15	39506.8036	1
2240	6.804	0.144	-0.458	-0.707	0.002	11111	1.01	39139.7592	3
2240	6.805	0.135	-0.448	-0.694	-0.004	11111	1.03	39500.8024	1
2244	4.862	-0.069	-0.180	-0.250	-0.068	11111	1.46	39057.9988	3
2244	4.901	-0.070	-0.181	-0.247	-0.090	11111	1.45	39507.7623	1
2286	5.701	1.564	0.649	0.682	0.565	11111	1.02	39139.7704	3
2286	0.000	1.566	0.632	0.702	0.515	01111	1.02	39433.9714	0
2286	5.721	1.578	0.661	0.712	0.519	11111	1.05	39500.8144	1
2294	1.656	-0.216	-0.612	-1.147	-0.177	11111	1.59	39139.7809	3
2294	0.000	0.013	0.000	0.000	-0.174	00001	1.62	39433.9897	0
2294	1.631	-0.210	-0.621	-1.170	-0.184	11111	1.64	39507.7934	1
2298	4.601	0.162	0.011			11100	1.14	38787.7462	1
2298	4.609	0.178	-0.029	-0.081	0.032	11111	1.20	39507.8059	1
2308	11.064	2.876	1.085	1.137	-0.253	11111	1.09	39147.6899	3
2308	11.242	2.935	1.346	1.176	-0.157	11111	1.10	39501.8212	1
2343	4.001	-0.111	-0.338	-0.577	-0.115	11111	1.05	39147.7009	3
2343	3.993	-0.105	-0.335	-0.566	-0.133	11111	1.08	39500.8289	1
2344	4.787	-0.176	-0.466	-0.929	-0.152	11111	1.27	39147.7118	3
2344	4.794	-0.174	-0.476	-0.933	-0.164	11111	1.38	39507.8201	1
2356	3.498	-0.142	-0.491	-0.931	-0.136	11111	1.30	39147.7228	3
2356	3.488	-0.155	-0.497	-0.944	-0.131	11111	1.34	39473.8891	1
2385	4.520	-0.038	-0.312	-0.137	-0.016	11111	1.10	39147.7345	3
2385	4.507	-0.067	-0.302	-0.118	0.002	11111	1.20	39501.8399	1
2392	7.979	0.998	0.129	-0.074	0.039	11111	1.38	39147.7463	3
2392	8.037	1.004	0.117	-0.102	0.062	11111	1.58	39507.8323	1
2421	1.964	0.021	0.051	0.098	-0.049	11111	1.06	39147.7767	3
2421	1.969	0.032	0.034	0.081	-0.039	11111	1.04	39154.7249	3
2427	6.875	1.221	0.437	0.316	0.205	11111	1.10	39148.6650	3
2427	6.860	1.216	0.456	0.320	0.206	11111	1.11	39507.8460	1
2429	5.667	0.998	0.347	0.194	0.081	11111	1.70	39148.6966	3
2429	5.674	1.005	0.365	0.202	0.084	11111	1.71	39508.7078	1
2443	6.303	1.079	0.312	0.179	0.180	11111	1.63	39148.7061	3
2443	6.297	1.068	0.325	0.199	0.159	11111	1.63	39508.7205	1
2450	7.403	1.514	0.587	0.536	0.306	11111	1.46	39148.7245	3
2450	7.402	1.500	0.594	0.526	0.324	11111	1.47	39508.7333	1
2456	4.337	-0.227	-0.670	-1.272	-0.191	11111	1.08	39148.7379	3
2456	4.311	-0.242	-0.653	-1.271	-0.180	11111	1.08	39504.7801	1
2467	6.148	-0.137	-0.623	-1.202	-0.171	01111	1.22	39150.6708	3
2467	6.275	-0.124	-0.634	-1.211	-0.134	11111	1.12	39504.7927	1
2470	4.921	0.080	0.072	-0.036	-0.056	01111	1.16	39150.6823	3
2470	4.993	0.083	0.040	-0.049	-0.029	11111	1.15	39506.8157	1
2473	5.269	1.362	0.393	0.360	0.223	01111	1.05	39150.6926	3
2473	5.372	1.343	0.374	0.346	0.241	11111	1.01	39501.7702	1
2478	6.331	1.118	0.379	0.260	0.185	01111	1.09	39150.7022	3
2478	6.418	1.099	0.384	0.241	0.235	11111	1.08	39504.8044	1

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
2484	3.900	0.310	-0.125	-0.292	0.018	01111	1.07	39150.7149	3
2484	4.027	0.286	-0.139	-0.301	0.041	11111	1.08	39440.9805	1
2491	-1.441	0.029	0.047	-0.092	-0.056	11111	1.52	39053.0085	3
2491	-1.415	0.046	0.057	-0.068	-0.045	11111	1.52	39154.7352	3
2506	6.288	1.048	0.292	0.194	0.181	11111	1.16	39151.7626	3
2506	6.283	1.038	0.321	0.202	0.138	11111	1.24	39504.8345	1
2527	6.933	1.443	0.619	0.455	0.335	11111	1.49	39151.6438	3
2527	6.964	1.478	0.612	0.501	0.229	11111	1.44	39506.8413	1
2540	3.805	0.087	0.075	0.130	0.001	11111	1.08	39151.6727	3
2540	3.779	0.095	0.034	0.121	0.002	11111	1.12	39506.8602	1
2560	5.662	0.683	0.064	-0.100	0.080	11111	1.21	39151.6538	3
2560	5.663	0.722	0.057	-0.081	0.068	11111	1.14	39506.8273	1
2564	5.101	0.205	-0.054	-0.185	-0.012	11111	1.13	39151.6845	3
2564	5.105	0.205	-0.060	-0.211	0.015	11111	1.15	39504.8466	1
2571	4.450	-0.237	-0.585	-1.120	-0.195	11111	1.66	39151.7259	3
2571	4.508	-0.218	-0.604	-1.146	-0.181	11111	1.66	39508.7476	1
2574	6.529	1.478	0.619	0.476	0.374	11111	1.40	39151.7531	3
2574	6.557	1.488	0.649	0.494	0.387	11111	1.40	39473.8589	1
2585	4.963	-0.049	0.064	0.051	-0.039	11111	1.12	39151.6633	3
2585	4.939	0.007	0.071	0.046	-0.053	11111	1.04	39172.7227	3
2590	5.131	0.238	-0.107	-0.237	-0.002	11111	1.65	39151.7345	3
2590	5.171	0.235	-0.100	-0.255	0.031	11111	1.64	39508.7614	1
2596	4.258	-0.125	-0.522	-0.860	-0.132	11111	1.53	39151.7434	3
2596	4.251	-0.126	-0.528	-0.872	-0.145	11111	1.54	39508.7792	1
2648	4.675	-0.193	-0.620	-1.130	-0.172	11111	1.24	39052.0261	3
2648	4.713	-0.213	-0.588	-1.101	-0.171	11111	1.24	39061.9979	3
2650	5.762	0.837	0.054			11100	1.02	38786.7475	1
2650	4.865	0.570	-0.022			11100	1.04	38789.7809	1
2650	4.787	0.605	-0.104			11100	1.04	38791.7027	1
2650	5.096	0.629	0.005			11100	1.05	38839.6486	3
2650	5.040	0.617	-0.018	-0.005	0.195	11111	1.03	39154.7687	3
2650	4.939	0.635	-0.003	-0.002	0.216	11111	1.05	39178.7216	1
2657	3.943	-0.115	-0.332	-0.587	-0.104	11111	1.49	39053.0194	3
2657	3.942	-0.108	-0.347	-0.579	-0.109	11111	1.54	39174.7265	3
2697	6.572	1.298	0.454			11100	1.02	38752.8846	3
2697	6.501	1.281	0.486	0.386	0.246	11111	1.05	39174.7534	3
2701	6.500	0.889	0.184	0.004	0.164	11111	1.25	39054.0312	3
2701	6.471	0.892	0.189	0.015	0.181	11111	1.29	39174.7353	3
2714	4.145	-0.001	-0.001	0.122	-0.005	11111	1.18	39055.0230	3
2714	4.138	0.007	-0.024	0.114	-0.032	11111	1.23	39174.7438	3
2751	5.114	0.055	0.018	0.139	0.000	11111	1.05	39056.0177	3
2751	5.095	0.072	0.016	0.129	0.014	11111	1.10	39174.7638	3
2763	3.715	0.115	0.068	0.030	-0.031	11111	1.04	39056.0275	3
2763	3.746	0.116	0.075	0.023	-0.005	11111	1.04	39175.7051	3
2777	3.962	0.215	-0.079			11100	1.02	38786.7596	1
2777	3.991	0.213	-0.081			11100	1.03	38787.7752	1
2777	4.028	0.244	-0.092			11100	1.02	38791.7354	1
2812	4.815	-0.107	-0.267	-0.462	-0.087	11111	1.60	39057.0160	3
2812	4.868	-0.073	-0.272	-0.469	-0.113	11111	1.62	39175.7233	3
2818	4.556	-0.015	0.045	0.032	-0.018	11111	1.05	39057.0252	3
2818	4.606	-0.007	0.042	0.028	-0.051	11111	1.06	39175.7328	3
2821	5.372	0.906	0.224	0.076	0.151	11111	1.00	39058.0198	3
2821	5.393	0.906	0.239	0.082	0.136	11111	1.03	39175.7421	3
2845	2.707	-0.096	-0.202			11100	1.11	38751.8879	3
2845	2.732	-0.064	-0.165			11100	1.12	38789.7939	1
2845	2.754	-0.071	-0.146	-0.300	-0.124	11111	1.10	39202.6383	3
2852	4.635	0.221	-0.107			11100	1.89	38751.6712	3
2852	4.599	0.224	-0.116			11100	1.02	38751.8990	3
2852	4.598	0.213	-0.128			11100	1.93	38752.6659	3
2852	4.598	0.205	-0.120			11100	1.00	38791.7484	1
2852	4.669	0.205	-0.125	-0.314	-0.065	11111	4.88	39019.8628	3
2852	4.597	0.211	-0.149	-0.311	-0.002	11111	1.15	39030.0062	3
2852	4.641	0.234	-0.149	-0.319	0.027	11111	1.00	39052.0369	3
2852	4.616	0.214	-0.123	-0.300	0.028	11111	1.00	39053.0288	3
2852	4.611	0.214	-0.136	-0.312	0.016	11111	1.00	39054.0394	3
2852	4.601	0.203	-0.108	-0.290	0.045	11111	1.00	39055.0316	3
2852	4.608	0.214	-0.130	-0.301	0.003	11111	1.00	39056.0378	3
2852	4.583	0.211	-0.096	-0.306	0.049	11111	1.00	39057.0360	3
2852	4.600	0.219	-0.131	-0.321	0.036	11111	1.00	39058.0447	3
2852	4.661	0.224	-0.139	-0.334	0.034	11111	1.00	39084.9483	1
2852	4.641	0.224	-0.124	-0.309	0.012	11111	1.00	39135.8287	1
2852	4.617	0.191	-0.102	-0.275	0.003	11111	1.00	39140.8180	3
2852	4.636	0.196	-0.111	-0.280	0.005	11111	1.17	39148.6745	3
2852	4.626	0.212	-0.121	-0.301	0.017	11111	1.00	39154.7461	3
2852	4.611	0.210	-0.118	-0.299	-0.004	11111	1.00	39173.7065	3
2852	4.582	0.217	-0.142	-0.308	0.017	11111	1.00	39174.7157	3
2852	4.639	0.233	-0.144	-0.317	0.001	11111	1.00	39175.7138	3
2852	4.559	0.206	-0.114	-0.304	0.009	11111	1.00	39176.7075	3
2852	4.604	0.210	-0.108	-0.299	-0.011	11111	1.00	39178.7124	1
2852	4.608	0.196	-0.095	-0.278	-0.005	11111	1.01	39184.7085	1
2852	4.652	0.209	-0.105	-0.273	0.002	11111	1.01	39206.5981	3
2852	4.617	0.206	-0.120	-0.323	0.020	11111	2.30	39206.8360	3
2852	4.602	0.199	-0.111	-0.297	0.007	11111	1.00	39207.6004	1
2852	4.648	0.198	-0.120	-0.289	-0.007	11111	1.08	39227.6361	3
2852	4.656	0.226	-0.119	-0.328	0.020	11111	2.29	39227.7782	3
2852	4.694	0.209	-0.123	-0.294	0.008	11111	1.06	39229.6181	3
2852	4.594	0.221	-0.135	-0.319	0.028	11111	1.05	39442.0324	1
2852	4.639	0.212	-0.143	-0.315	0.028	11111	1.38	39470.0441	1
2852	4.663	0.249	-0.148	-0.339	0.011	11111	1.12	39471.9814	1
2852	4.618	0.203	-0.150	-0.325	0.001	11111	1.02	39474.8471	1
2852	4.580	0.207	-0.131	-0.328	0.031	11111	1.85	39482.6728	3
2852	4.646	0.220	-0.149	-0.330	0.010	11111	1.10	39487.7700	3
2852	4.628	0.219	-0.123	-0.303	0.009	11111	1.00	39499.8032	1
2852	4.631	0.223	-0.127	-0.292	0.004	11111	1.01	39500.8405	1
2852	4.657	0.229	-0.135	-0.307	0.015	11111	1.04	39504.8582	1
2852	4.642	0.222	-0.131	-0.307	0.007	11111	1.06	39507.8569	1
2852	4.641	0.235	-0.148	-0.332	0.030	11111	1.00	39508.7912	1
2854	6.746	1.461	0.416			11100	1.13	38751.9112	3
2854	6.742	1.472	0.464			11100	1.13	38789.8044	1
2854	6.732	1.420	0.556	0.382	0.268	11111	1.10	39202.6475	3
2864	6.697	1.263	0.403			11100	1.09	38752.8957	3
2864	6.691	1.259	0.467	0.353	0.194	11111	1.11	39175.7532	3
2864	6.672	1.262	0.453	0.446	0.250	11111	1.07	39206.6254	3
2891	1.618	0.054	0.026			11100	1.69	38702.8237	3
2891	1.650	0.047	0.039			11100	1.17	38702.8992	3
2891	1.653	0.044	0.046			11100	2.38	38704.7779	3
2891	1.628	0.036	0.049			11100	1.29	38704.8679	3
2891	1.629	0.050	0.025			11100	1.13	38704.9049	3
2891	1.638	0.054	0.033			11100	1.05	38704.9397	3
2891	1.632	0.044	0.045			11100	1.02	38704.9562	3
2891	1.629	0.052	0.030			11100	1.43	38705.8427	3
2891	1.664	0.076	0.029			11100	1.00	38706.0095	3
2891	1.605	0.038	0.057			11100	1.64	38708.8112	3
2891	1.630	0.039	0.045			11100	1.01	38787.7962	1
2891	1.666	0.036	0.070			11100	1.03	38791.7137	1
2891	1.625	0.035	0.038			11100	1.05	38837.6901	1
2891	1.610	0.038	0.069			11100	1.00	38839.6201	3
2891	1.614	0.066	0.025			11100	1.12	38865.6458	1
2891	1.623	0.036	0.029			11100	1.08	38866.6275	1
2891	1.629	0.052	0.035	-0.083	-0.040	11111	1.01	39479.9043	1
2905	6.803	1.686	0.647	0.577	0.382	11111	1.00	39058.0283	3
2905	6.802	1.699	0.658	0.574	0.375	11111	1.01	39184.6622	1
2905	6.776	1.671	0.690	0.600	0.399	11111	1.01	39206.6370	3
2930	5.446	0.280	-0.110	-0.223	0.079	11111	1.00	39058.0366	3
2930	5.467	0.291	-0.115	-0.210	0.038	11111	1.00	39184.6722	1
2930	5.476	0.286	-0.120	-0.234	0.068	11111	1.00	39207.6226	1
2943	0.907	0.283	-0.139	-0.328	0.021	11111	1.16	39059.9895	3
2943	0.952	0.286	-0.134	-0.308	0.029	11111	1.13	39154.7574	3
2943	0.965	0.288	-0.115	-0.318	0.015	11111	1.13	39202.6597	3
2946	5.136	0.063	0.035	0.092	-0.021	11111	1.13	39060.0000	3
2946	5.048	0.048	0.062	0.091	0.022	11111	1.12	39184.6832	1
2946	5.055	0.057	0.037	0.074	0.036	11111	1.12	39207.6330	1
2970	5.571	0.907	0.242	0.110	0.111	11111	1.39	39060.9858	3
2970	5.562	0.928	0.225	0.098	0.147	11111	1.34	39184.6988	1
2970	5.564	0.923	0.239	0.105	0.106	11111	1.35	39207.6435	1
2973	6.040	1.034	0.266			11100	1.00	38786.7737	1
2973	6.007	1.050	0.205			11100	1.00	38791.7596	1
2985	5.032	0.801	0.150	-0.007	0.119	11111	1.14	39060.9417	3
2985	5.023	0.805	0.139	-0.006	0.133	11111	1.01	39154.7786	3
2990	2.702	0.892	0.238			11100	1.73	38702.8320	3
2990	2.733	0.895	0.241			11100	1.18	38702.9068	3
2990	2.716	0.891	0.223			11100	1.05	38702.9527	3
2990	2.758	0.910	0.259			11100	2.49	38704.7868	3
2990	2.716	0.894	0.232			11100	1.30	38704.8763	3
2990	2.702	0.879	0.227			11100	1.14	38704.9129	3
2990	2.719	0.899	0.229			11100	1.05	38704.9480	3
2990	2.713	0.879	0.238			11100	1.03	38704.9643	3
2990	2.682	0.885	0.260			11100	1.94	38708.8017	3
2990	2.819	0.908	0.220			11100	1.01	38786.7990	1
2990	2.754	0.908	0.200			11100	1.00	38787.7690	1
2990	2.726	0.905	0.222			11100	1.05	38837.6986	1
2990	2.703	0.912	0.242			11100	1.01	38839.6589	3
2990	2.697	0.900	0.231			11100	1.14	38865.6576	1
2990	2.728	0.904	0.231			11100	1.11	38866.6450	1
2990	2.546	0.866	0.192			11100	1.14	38868.6483	1
2990	2.682	0.919	0.223			11100	1.10	38869.6321	1
2990	2.704	0.897	0.254	0.090	0.127	11111	1.02	39479.9201	1
3003	7.419	1.528	0.644	0.521	0.389	11111	1.11	39060.9621	3
3003	7.382	1.530	0.666	0.539	0.368	11111	1.03	39199.6436	3
3067	5.124	0.084	0.059	0.056	-0.025	11111	1.12	39060.9522	3
3067	5.122	0.100	0.090	0.062	-0.038	11111	1.00	39199.6536	3
3131	4.743	0.073	0.047	0.098	-0.043	11111	1.66	39060.9963	3
3131	4.738	0.076	0.076	0.082	-0.031	11111	1.58	39199.6635	3
3141	7.266	1.552	0.648	0.504	0.344	11111	1.31	39060.9753	3
3141	7.252	1.571	0.669	0.534	0.371	11111	1.21	39199.6746	3

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
3145	6.511	1.250	0.373			11100	1.17	38752.9110	3
3145	6.457	1.201	0.446	0.275	0.254	11111	1.16	39171.7279	1
3145	6.475	1.211	0.434	0.281	0.274	11111	1.15	39206.6491	3
3173	4.858	0.032	0.059	0.027	-0.044	11111	1.09	39084.9260	1
3173	4.873	0.050	0.045	-0.001	-0.023	11111	1.06	39171.7398	1
3173	4.840	0.022	0.053	0.053	-0.012	11111	1.06	39206.6609	3
3188	5.841	0.801	0.067	0.024	0.176	11111	1.27	39084.9367	1
3188	5.830	0.800	0.094	0.018	0.175	11111	1.23	39172.7343	3
3188	5.852	0.810	0.049	-0.008	0.190	11111	1.24	39206.6714	3
3192	4.187	-0.135	-0.393	-0.714	-0.179	11111	1.62	39084.9628	1
3192	4.149	-0.158	-0.373	-0.730	-0.140	11111	1.60	39172.7439	3
3192	4.194	-0.152	-0.391	-0.744	-0.121	11111	1.65	39206.6810	3
3211	6.204	0.834	0.164	0.026	0.092	11111	1.42	39084.9736	1
3211	6.192	0.835	0.176	0.027	0.094	11111	1.42	39172.7537	3
3211	6.209	0.846	0.154	0.014	0.087	11111	1.42	39207.6540	1
3249	6.129	1.571	0.626			11100	1.10	38751.9261	3
3249	6.148	1.583	0.609			11100	1.12	38752.9330	3
3249	6.222	1.572	0.607			11100	1.09	38786.8110	1
3249	6.134	1.566	0.571			11100	1.09	38787.8080	1
3249	6.146	1.577	0.608			11100	1.09	38791.7730	1
3249	6.123	1.567	0.603			11100	1.16	38839.7171	3
3249	6.123	1.578	0.638	0.506	0.343	11111	1.28	38872.6610	3
3249	6.083	1.567	0.632	0.489	0.340	11111	1.19	38874.6333	3
3249	6.108	1.554	0.630	0.503	0.337	11111	1.23	38875.6402	1
3249	6.096	1.563	0.618	0.493	0.358	11111	1.27	38877.6450	3
3249	6.129	1.570	0.622	0.493	0.341	11111	1.26	38878.6408	1
3249	6.152	1.556	0.632	0.492	0.331	11111	2.49	38887.7149	3
3249	6.145	1.557	0.637	0.508	0.339	11111	2.38	38888.7085	3
3249	6.116	1.545	0.642	0.497	0.338	11111	2.50	38889.7097	3
3249	6.123	1.564	0.626	0.473	0.329	11111	2.92	38890.7188	3
3249	6.150	1.588	0.629	0.507	0.354	11111	2.48	39016.9841	3
3249	6.108	1.540	0.633	0.479	0.338	11111	2.42	39025.9614	3
3249	6.109	1.551	0.638	0.487	0.344	11111	2.22	39026.9665	3
3249	6.134	1.564	0.650	0.513	0.313	11111	2.14	39028.9649	3
3249	6.265	1.592	0.691	0.541	0.306	11111	2.22	39029.9586	3
3249	6.133	1.558	0.642	0.489	0.333	11111	2.47	39044.9078	3
3249	6.133	1.561	0.623	0.477	0.316	11111	2.16	39051.9010	3
3249	6.114	1.548	0.613	0.496	0.319	11111	2.14	39052.8990	3
3249	6.149	1.565	0.627	0.484	0.342	11111	2.44	39053.8843	3
3249	6.126	1.553	0.622	0.502	0.321	11111	2.04	39054.8988	3
3249	6.125	1.546	0.618	0.464	0.361	11111	2.02	39055.8973	3
3249	6.129	1.542	0.650	0.515	0.314	11111	2.10	39057.8873	3
3249	6.119	1.557	0.635	0.496	0.333	11111	2.23	39059.8760	3
3249	6.089	1.574	0.617	0.485	0.339	11111	1.11	39060.0236	3
3249	6.102	1.566	0.630	0.467	0.362	11111	2.21	39060.8740	3
3249	6.161	1.547	0.629	0.495	0.363	11111	1.11	39061.0181	3
3249	6.141	1.584	0.626	0.492	0.302	11111	2.15	39061.8739	3
3249	6.119	1.540	0.639	0.507	0.337	11111	1.10	39062.0244	3
3249	6.115	1.563	0.623	0.498	0.346	11111	1.09	39135.8396	1
3249	6.123	1.569	0.614	0.481	0.387	11111	2.40	39138.6538	3
3249	6.115	1.543	0.635	0.494	0.366	11111	1.16	39138.8976	3
3249	6.131	1.547	0.644	0.502	0.348	11111	1.12	39140.8732	3
3249	6.113	1.569	0.608	0.492	0.349	11111	1.15	39147.8701	3
3249	6.129	1.551	0.611	0.488	0.374	11111	1.16	39148.8696	3
3249	6.133	1.564	0.606	0.482	0.340	11111	1.09	39171.7516	1
3249	6.137	1.564	0.621	0.491	0.360	11111	1.14	39178.7820	1
3249	6.167	1.576	0.675	0.521	0.299	11111	1.10	39197.7071	3
3249	6.107	1.552	0.637	0.500	0.316	11111	3.07	39197.8813	3
3249	6.133	1.559	0.634	0.507	0.330	11111	1.09	39199.6863	3
3249	6.131	1.572	0.629	0.502	0.323	11111	2.46	39199.8595	3
3249	6.158	1.566	0.641	0.525	0.341	11111	1.12	39206.6140	3
3249	6.118	1.565	0.625	0.497	0.347	11111	2.62	39206.8455	3
3249	6.116	1.562	0.619	0.478	0.346	11111	1.12	39207.6108	1
3249	6.219	1.562	0.615	0.480	0.347	11111	1.12	39229.6280	3
3249	6.096	1.558	0.637	0.490	0.341	11111	1.14	39238.6145	1
3249	6.158	1.576	0.644	0.518	0.363	11111	1.22	39240.6397	3
3249	6.102	1.585	0.595	0.436	0.342	11111	1.21	39246.6198	1
3249	6.109	1.557	0.638	0.536	0.344	11111	1.59	39249.6727	1
3249	6.121	1.504	0.662	0.538	0.364	11111	1.36	39254.6292	1
3249	6.144	1.566	0.619	0.491	0.362	11111	1.18	39431.9705	1
3249	0.000	1.556	0.637	0.502	0.367	01111	1.09	39434.0249	0
3249	6.120	1.554	0.625	0.488	0.354	11111	1.09	39440.9951	1
3249	6.088	1.542	0.642	0.507	0.350	11111	1.09	39471.9320	1
3249	6.117	1.558	0.652	0.523	0.364	11111	1.09	39473.9207	1
3249	6.101	1.551	0.657	0.508	0.352	11111	1.24	39479.9897	1
3249	6.122	1.562	0.640	0.512	0.332	11111	1.34	39482.7922	3
3249	6.146	1.556	0.652	0.522	0.332	11111	1.17	39482.8342	3
3249	6.138	1.532	0.681	0.539	0.329	11111	1.10	39487.9050	3
3249	6.098	1.546	0.657	0.534	0.329	11111	1.29	39488.7860	3
3249	6.114	1.567	0.623	0.485	0.333	11111	1.49	39501.7191	1
3249	6.141	1.565	0.643	0.493	0.349	11111	1.09	39501.8512	1
3249	6.132	1.565	0.645	0.503	0.356	11111	1.11	39504.8686	1
3249	6.130	1.561	0.635	0.499	0.336	11111	1.12	39506.8723	1
3249	6.141	1.571	0.620	0.494	0.357	11111	1.12	39507.8677	1
3249	6.109	1.541	0.650	0.511	0.324	11111	1.14	39508.8789	1
3249	6.131	1.563	0.632	0.505	0.333	11111	1.09	39509.8321	1
3275	6.986	1.648	0.666	0.563	0.403	11111	1.02	39084.9869	1
3275	6.986	1.671	0.668	0.570	0.358	11111	1.02	39172.7651	3
3275	6.999	1.678	0.668	0.556	0.364	11111	1.02	39202.6747	3
3314	3.867	0.018	0.031	-0.069	-0.056	11111	1.24	39135.8504	1
3314	3.882	0.009	0.055	-0.054	-0.070	11111	1.25	39173.7250	3
3314	3.913	0.026	0.045	-0.064	-0.079	11111	1.24	39202.6861	3
3314	3.909	0.024	0.041	-0.073	-0.082	11111	1.24	39207.6649	1

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
3323	4.748	0.708	0.018	-0.130	0.164	11111	1.14	39135.8667	1
3323	4.631	0.697	0.008	-0.125	0.142	11111	1.14	39173.7345	3
3323	4.620	0.686	0.034	-0.133	0.156	11111	1.14	39207.6763	1
3403	6.617	1.140	0.376	0.208	0.229	11111	1.18	39135.8812	1
3403	6.533	1.141	0.361	0.219	0.201	11111	1.18	39173.7449	3
3403	6.520	1.141	0.376	0.231	0.206	11111	1.18	39207.6866	1
3410	4.217	-0.002	0.073			11100	1.12	38786.8228	1
3410	4.127	-0.005	0.039			11100	1.12	38787.8208	1
3410	4.117	0.012	0.019			11100	1.12	38791.7925	1
3418	6.456	1.194	0.435	0.332	0.180	11111	1.16	39135.8938	1
3418	6.483	1.216	0.407	0.337	0.189	11111	1.14	39173.7547	3
3429	6.584	0.182	0.086	0.068	0.027	11111	1.02	39482.9159	3
3441	6.552	0.942	0.277	0.152	0.121	11111	1.51	39140.8300	3
3441	6.552	0.956	0.269	0.129	0.130	11111	1.50	39173.7644	3
3449	4.719	0.022	0.087	-0.010	-0.033	11111	1.02	39140.8419	3
3449	4.732	0.049	0.065	-0.040	-0.034	11111	1.04	39176.7183	3
3454	4.023	-0.188	-0.450			11100	1.15	38751.9374	3
3454	4.022	-0.187	-0.463			11100	1.18	38752.9556	3
3454	4.088	-0.178	-0.520			11100	1.14	38789.8182	1
3454	3.997	-0.209	-0.457			11100	1.16	38791.7827	1
3454	4.010	-0.173	-0.467	-0.936	-0.152	11111	1.17	38874.6189	3
3454	4.008	-0.174	-0.462	-0.926	-0.161	11111	1.28	38875.6549	1
3454	3.994	-0.176	-0.461	-0.926	-0.137	11111	1.33	38877.6595	3
3454	4.029	-0.170	-0.457	-0.905	-0.170	11111	1.34	38878.6584	1
3454	4.035	-0.179	-0.457	-0.909	-0.161	11111	2.58	38888.7234	3
3454	4.024	-0.163	-0.492	-0.922	-0.169	11111	2.68	38889.7236	3
3454	4.034	-0.161	-0.479	-0.916	-0.156	11111	3.02	38890.7297	3
3454	4.070	-0.154	-0.473	-0.926	-0.148	11111	2.22	39025.9984	3
3454	4.040	-0.160	-0.476	-0.910	-0.152	11111	2.45	39044.9374	3
3454	4.092	-0.142	-0.477	-0.919	-0.162	11111	2.45	39051.9182	3
3454	4.031	-0.164	-0.477	-0.910	-0.161	11111	2.28	39052.9220	3
3454	4.029	-0.155	-0.465	-0.897	-0.178	11111	2.27	39053.9198	3
3454	4.041	-0.158	-0.461	-0.895	-0.169	11111	2.14	39054.9230	3
3454	4.029	-0.160	-0.468	-0.910	-0.166	11111	2.34	39055.9114	3
3454	4.014	-0.167	-0.478	-0.887	-0.148	11111	2.16	39057.9139	3
3454	4.056	-0.161	-0.470	-0.914	-0.154	11111	2.22	39059.9054	3
3454	3.985	-0.167	-0.472	-0.917	-0.157	11111	1.18	39060.0328	3
3454	4.026	-0.168	-0.472	-0.902	-0.196	11111	2.10	39060.9082	3
3454	4.049	-0.168	-0.477	-0.929	-0.157	11111	1.18	39061.0280	3
3454	4.038	-0.173	-0.464	-0.895	-0.146	11111	2.23	39061.8995	3
3454	4.011	-0.195	-0.442	-0.888	-0.165	11111	1.17	39062.0332	3
3454	4.021	-0.156	-0.476	-0.915	-0.167	11111	1.37	39135.9596	1
3454	4.047	-0.147	-0.494	-0.921	-0.136	11111	2.24	39138.6888	3
3454	4.049	-0.153	-0.473	-0.922	-0.165	11111	1.20	39138.9064	3
3454	4.055	-0.157	-0.489	-0.931	-0.156	11111	1.16	39140.8816	3
3454	4.014	-0.169	-0.461	-0.915	-0.153	11111	1.19	39147.8787	3
3454	4.051	-0.168	-0.460	-0.918	-0.157	11111	1.20	39148.8808	3
3454	4.029	-0.171	-0.445	-0.905	-0.151	11111	1.14	39171.7633	1
3454	4.028	-0.170	-0.459	-0.903	-0.163	11111	1.18	39178.7915	1
3454	4.017	-0.154	-0.480	-0.922	-0.143	11111	1.15	39197.7169	3
3454	4.046	-0.163	-0.470	-0.931	-0.145	11111	3.11	39197.8906	3
3454	4.031	-0.168	-0.457	-0.918	-0.157	11111	1.14	39199.6954	3
3454	4.035	-0.171	-0.472	-0.930	-0.144	11111	2.50	39199.8689	3
3454	4.007	-0.159	-0.486	-0.936	-0.160	11111	1.15	39206.6951	3
3454	4.055	-0.150	-0.470	-0.905	-0.153	11111	1.19	39207.7134	1
3454	4.012	-0.166	-0.475	-0.929	-0.148	11111	1.18	39238.6268	1
3454	4.052	-0.172	-0.440	-0.883	-0.149	11111	1.26	39240.6489	3
3454	4.024	-0.164	-0.477	-0.920	-0.163	11111	4.63	39243.7861	3
3454	3.996	-0.176	-0.465	-0.902	-0.163	11111	1.26	39246.6321	1
3454	4.028	-0.173	-0.473	-0.916	-0.147	11111	1.23	39431.9919	1
3454	0.000	-0.159	0.000	-0.906	-0.170	01011	1.17	39434.0104	0
3454	4.029	-0.171	-0.461	-0.914	-0.149	11111	1.15	39441.0123	1
3454	4.049	-0.163	-0.461	-0.919	-0.139	11111	1.14	39444.0222	1
3454	4.030	-0.169	-0.456	-0.918	-0.152	11111	1.19	39469.9993	1
3454	4.050	-0.162	-0.470	-0.921	-0.148	11111	1.26	39471.0178	1
3454	4.022	-0.180	-0.455	-0.892	-0.161	11111	1.15	39471.9591	1
3454	4.032	-0.170	-0.465	-0.910	-0.154	11111	1.17	39473.9076	1
3454	3.993	-0.174	-0.463	-0.925	-0.156	11111	1.17	39479.8864	1
3454	4.031	-0.166	-0.471	-0.913	-0.167	11111	1.21	39479.9786	1
3454	4.047	-0.161	-0.476	-0.923	-0.155	11111	1.15	39482.9294	3
3454	4.066	-0.179	-0.484	-0.932	-0.073	11111	1.15	39487.9152	3
3454	4.001	-0.158	-0.485	-0.927	-0.154	11111	1.39	39488.8005	3
3454	4.040	-0.160	-0.476	-0.910	-0.162	11111	1.53	39501.7453	1
3454	4.036	-0.173	-0.460	-0.909	-0.142	11111	1.14	39501.8623	1
3454	4.029	-0.171	-0.477	-0.923	-0.153	11111	1.17	39506.8834	1
3454	3.993	-0.176	-0.460	-0.911	-0.160	11111	1.19	39508.8909	1
3459	5.872	0.646	0.037	-0.066	0.096	11111	1.30	39140.8529	3
3459	5.891	0.664	0.010	-0.094	0.110	11111	1.31	39176.7278	3
3461	5.688	0.993	0.310	0.160	0.136	11111	1.03	39140.8633	3
3461	5.701	1.012	0.310	0.173	0.133	11111	1.04	39176.7373	3
3475	5.588	0.854	0.155	0.054	0.131	11111	1.01	39147.8146	3
3475	5.586	0.860	0.163	0.035	0.134	11111	1.00	39176.7460	3
3482	4.377	0.533	0.030	-0.122	0.075	11111	1.11	39147.8250	3
3482	4.391	0.534	0.032	-0.116	0.065	11111	1.11	39176.7547	3
3484	5.692	0.735	0.092	-0.087	0.157	11111	1.57	39148.7713	3
3484	5.681	0.754	0.095	-0.094	0.162	11111	1.46	39176.7843	3
3492	4.336	0.002	0.018			11100	1.12	38752.9220	3
3492	4.381	-0.027	0.042			11100	1.12	38786.8339	1
3492	4.256	-0.018	0.023			11100	1.12	38791.8113	1

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
3547	4.712	0.868	0.206	0.075	0.135	11111	1.19	39148.7811	3
3547	4.682	0.875	0.208	0.052	0.129	11111	1.13	39178.7324	1
3569	3.502	0.189	0.009	-0.113	-0.012	11111	1.07	39148.7914	3
3569	3.450	0.190	-0.001	-0.122	-0.020	11111	1.04	39178.7420	1
3572	4.542	0.157	0.066	0.063	-0.015	11111	1.10	39148.8009	3
3572	4.487	0.139	0.087	0.075	-0.013	11111	1.07	39178.7508	1
3576	7.468	1.585	0.612	0.670	0.491	11111	1.23	39148.8187	3
3576	7.392	1.568	0.625	0.669	0.439	11111	1.23	39178.7601	1
3579	4.618	0.305	-0.109	-0.322	0.007	11111	1.02	39148.8290	3
3579	4.597	0.316	-0.115	-0.336	0.002	11111	1.02	39178.7696	1
3594	3.547	-0.028	0.006			11100	1.04	38839.6699	3
3594	3.608	-0.003	-0.013	0.067	-0.038	11111	1.04	39171.7749	1
3594	3.547	-0.021	-0.045	0.077	-0.036	11111	1.04	39206.7066	3
3612	6.187	0.889	-0.280			11000	1.01	38752.9448	3
3612	6.220	0.901	0.139	0.012	0.153	11111	1.01	39171.7867	1
3612	6.143	0.903	0.123	0.038	0.181	11111	1.02	39206.7166	3
3616	5.525	0.374	-0.156	-0.405	0.034	11111	1.22	39139.8613	3
3616	5.509	0.331	-0.129	-0.367	-0.002	11111	1.22	39171.7995	1
3616	5.478	0.347	-0.173	-0.398	0.036	11111	1.23	39206.7275	3
3619	4.902	0.257	-0.009			11100	1.06	38839.6794	3
3619	4.885	0.248	0.010	-0.118	-0.006	11111	1.06	39172.7875	3
3619	5.501	0.266	0.003	-0.120	0.005	01111	1.06	39229.6399	3
3624	5.224	0.304	-0.021	-0.099	-0.005	11111	1.17	39139.8714	3
3624	5.166	0.294	-0.025	-0.140	0.024	11111	1.17	39172.7986	3
3624	5.252	0.316	-0.033	-0.132	0.017	11111	1.18	39229.6545	3
3662	5.095	0.163	0.028			11100	1.08	38839.6915	3
3662	5.089	0.170	0.005	-0.080	-0.012	11111	1.08	39173.7855	3
3662	5.113	0.174	0.033	-0.087	-0.005	11111	1.09	39229.6687	3
3665	3.854	-0.019	-0.020	-0.155	-0.075	11111	1.15	39139.8827	3
3665	3.820	-0.011	-0.044	-0.170	-0.092	11111	1.16	39173.7946	3
3690	3.975	0.099	0.051	-0.023	-0.024	11111	1.01	39139.8922	3
3690	3.922	0.084	0.025	-0.029	-0.042	11111	1.01	39173.8040	3
3705	5.895	1.667	0.650	0.533	0.419	11111	1.01	39139.9013	3
3705	5.867	1.683	0.634	0.529	0.422	11111	1.00	39174.7864	3
3706	6.200	0.791	0.110	-0.037	0.132	11111	1.43	39139.9150	3
3706	6.190	0.800	0.095	-0.057	0.155	11111	1.40	39174.7960	3
3709	6.249	0.781	0.132	-0.027	0.112	01111	1.50	39150.7810	3
3709	6.205	0.802	0.108	-0.034	0.145	11111	1.35	39174.8054	3
3731	6.573	1.230	0.450	0.282	0.249	01111	1.06	39150.7939	3
3731	6.461	1.239	0.456	0.315	0.151	11111	1.02	39174.8143	3
3748	4.546	1.510	0.613	0.463	0.306	01111	1.40	39150.8061	3
3748	4.501	1.525	0.608	0.472	0.278	11111	1.34	39175.7640	3
3751	6.815	1.534	0.565	0.458	0.338	01111	1.53	39150.8192	3
3751	6.854	1.571	0.570	0.491	0.301	11111	1.53	39175.7849	3
3751	6.847	1.553	0.559	0.491	0.257	11111	1.53	39202.7321	3
3757	4.202	0.245	-0.087	-0.165	0.056	01111	1.17	39150.8294	3
3757	4.152	0.257	-0.081	-0.173	0.047	11111	1.16	39175.7964	3
3757	4.116	0.239	-0.053	-0.145	0.036	11111	1.17	39202.7428	3
3759	5.201	0.283	-0.136	-0.368	0.006	11111	1.39	39151.7747	3
3759	5.260	0.317	-0.163	-0.405	0.026	11111	1.23	39175.8061	3
3771	5.704	0.581	-0.028	-0.261	0.121	11111	1.31	39151.7846	3
3771	5.663	0.601	-0.023	-0.255	0.126	11111	1.26	39176.7962	3
3771	5.691	0.607	-0.013	-0.254	0.118	11111	1.31	39246.6686	1
3773	7.057	1.673	0.674	0.586	0.372	11111	1.07	39151.7942	3
3773	7.063	1.696	0.687	0.587	0.408	11111	1.02	39176.8065	3
3775	3.918	0.327	-0.183	-0.389	0.045	11111	1.06	39151.8623	3
3775	3.784	0.312	-0.186	-0.379	0.009	11111	1.06	39197.7280	3
3787	4.736	0.073	-0.022			11100	1.20	38751.9485	3
3787	4.674	0.054	0.060			11100	1.21	38789.8280	1
3787	4.651	0.100	0.006			11100	1.21	38791.8218	1
3799	4.586	0.097	0.026			11100	1.06	38791.8331	1
3800	5.912	0.759	0.094			11100	1.00	38751.9604	3
3800	5.947	0.768	0.087			11100	1.01	38752.9672	3
3800	5.945	0.749	0.063			11100	1.00	38837.7100	1
3800	5.919	0.780	0.091	-0.065	0.114	11111	1.00	39197.7371	3
3809	6.360	0.841	0.159			11100	1.01	38837.7194	1
3809	6.308	0.867	0.156	-0.008	0.157	11111	1.01	39197.7471	3
3815	6.594	0.634	0.044			11100	1.00	38837.7285	1
3815	6.534	0.662	0.052	-0.215	0.010	11111	1.01	39197.7559	3
3834	6.959	1.345	0.515	0.364	0.319	11111	1.13	39151.8720	3
3834	6.901	1.359	0.511	0.362	0.288	11111	1.15	39197.7658	3
3845	6.143	1.317	0.496	0.347	0.275	11111	1.18	39151.8816	3
3845	6.086	1.316	0.486	0.340	0.245	11111	1.21	39197.7752	3
3849	4.853	-0.123	-0.348	-0.715	-0.145	11111	1.48	39151.8904	3
3849	4.870	-0.113	-0.382	-0.741	-0.163	11111	1.54	39197.7843	3
3852	4.297	0.400	-0.078	-0.176	0.047	11111	1.11	39151.8995	3
3852	4.258	0.391	-0.054	-0.158	0.026	11111	1.09	39199.7049	3
3873	4.205	0.659	-0.044	-0.161	0.188	11111	1.09	39154.7898	3
3873	4.183	0.649	-0.011	-0.146	0.163	11111	1.01	39178.8033	1
3881	5.979	0.473	-0.111	-0.358	0.064	11111	1.07	39154.8002	3
3881	5.953	0.455	-0.091	-0.344	0.041	11111	1.04	39199.7143	3
3888	4.198	0.204	-0.071	-0.113	0.052	11111	1.15	39154.8094	3
3888	4.111	0.176	-0.030	-0.072	0.020	11111	1.12	39199.7243	3
3894	4.642	0.033	0.060	0.095	-0.031	11111	1.10	39154.8192	3
3894	4.614	0.029	0.101	0.088	-0.038	11111	1.08	39199.7341	3
3903	5.534	0.795	0.115	-0.017	0.127	11111	1.47	39154.8551	3
3903	5.572	0.802	0.130	-0.023	0.111	11111	1.47	39199.7494	3
3905	5.971	1.263	0.502	0.431	0.152	11111	1.01	39154.8647	3
3905	5.982	1.315	0.528	0.425	0.152	11111	1.01	39199.7591	3
3950	7.513	1.691	0.721	0.709	0.432	11111	1.10	39154.8739	3
3950	7.509	1.685	0.660	0.629	0.413	11111	1.11	39199.7684	3
3970	4.391	-0.112	-0.165			11100	1.42	38869.6480	1
3970	4.440	-0.091	-0.140	-0.262	-0.112	11111	1.42	39138.9175	3
3970	4.425	-0.085	-0.140	-0.273	-0.119	11111	1.42	39206.7380	3
3974	4.797	0.182	-0.024			11100	1.00	38752.9785	3
3974	4.838	0.194	0.030			11100	1.00	38791.8553	1
3974	4.711	0.172	0.037	-0.088	-0.033	11111	1.01	39206.7474	3
3975	3.444	-0.099	-0.319			11100	1.04	38786.8682	1
3975	3.473	-0.117	-0.283			11100	1.07	38791.9091	1
3975	3.433	-0.065	-0.327	-0.173	-0.016	11111	1.04	39227.6824	3
3980	6.892	1.539	0.628			11100	1.08	38839.7296	3
3980	6.900	1.530	0.598			11100	1.08	38869.6644	1
3980	6.860	1.549	0.639	0.505	0.329	11111	1.10	39227.7013	3
3981	4.442	-0.037	-0.052			11100	1.19	38752.9909	3
3981	4.426	-0.034	-0.065			11100	1.21	38789.8402	1
3981	4.425	-0.034	-0.051	-0.017	-0.068	11111	1.18	39238.6432	1
3982	1.180	-0.131	-0.205			11100	1.07	38839.7402	3
3982	1.244	-0.084	-0.248	-0.422	-0.100	11111	1.07	39138.9279	3
3982	1.228	-0.100	-0.263	-0.428	-0.107	11111	1.07	39238.6524	1
3994	5.176	0.938	0.255			11100	1.43	38869.6816	1
3994	5.213	0.923	0.294	0.162	0.115	11111	1.41	39138.9367	3
3994	5.269	0.938	0.317	0.212	0.091	11111	1.42	39240.6603	3
4031	3.864	0.204	-0.029			11100	1.01	38839.7494	3
4031	3.904	0.223	-0.061	0.019	0.060	11111	1.02	39138.9459	3
4031	3.889	0.220	-0.031	0.043	0.072	11111	1.02	39240.6713	3
4033	3.460	0.048	0.064			11100	1.02	38871.6529	1
4033	3.502	0.059	0.066	0.041	-0.004	11111	1.03	39139.9512	3
4039	6.478	0.382	-0.239	-0.425	0.117	11111	1.16	39254.6980	1
4039	6.459	0.323	-0.208	-0.487	0.025	11111	1.06	39258.6508	3
4054	5.414	0.305	-0.128			11100	1.04	38839.7712	3
4054	5.406	0.328	-0.139	-0.361	-0.006	11111	1.05	39139.9608	3
4057	3.810	1.003	0.246			11100	1.03	38839.7586	3
4057	3.798	1.015	0.255	0.086	0.236	11111	1.06	39139.9694	3
4057	3.828	1.028	0.273	0.090	0.222	11111	1.03	39202.7591	3
4069	5.812	1.660	0.610			11100	1.01	38866.6636	1
4069	5.787	1.624	0.583	0.506	0.365	11111	1.01	39140.9207	3
4069	5.804	1.672	0.598	0.489	0.394	11111	1.02	39202.7688	3
4072	4.906	-0.057	-0.095			11100	1.20	38866.6862	1
4072	4.919	-0.027	-0.078	-0.157	-0.066	11111	1.20	39140.9307	3
4072	4.884	-0.010	0.000	-0.172	-0.047	11011	1.20	39202.7791	3
4090	5.067	0.206	0.010			11100	1.00	38871.6659	1
4090	5.130	0.200	0.027	0.021	-0.029	11111	1.00	39140.9405	3
4092	8.234	1.638	0.657	0.597	0.405	11111	1.29	38874.6547	3
4092	8.227	1.612	0.692	0.643	0.391	11111	1.30	39147.8904	3
4094	6.402	1.605	0.635			11100	1.54	38871.6835	1
4094	6.406	1.596	0.652	0.564	0.341	11111	1.52	39147.8999	3
4100	5.563	0.787	0.114			11100	1.02	38871.6975	1
4100	5.606	0.772	0.131	-0.048	0.086	11111	1.00	39147.9099	3
4112	5.526	0.343	-0.179			11100	1.14	38871.7270	1
4112	5.566	0.356	-0.176	-0.449	0.006	11111	1.09	39148.9050	3
4119	4.911	-0.159	-0.245			11100	1.21	38789.8507	1
4119	4.894	-0.099	-0.317			11100	1.21	38791.9196	1
4132	5.007	0.182	-0.019			11100	1.01	38865.6781	1
4132	5.039	0.173	0.011	-0.093	-0.042	11111	1.01	39148.9167	3
4133	3.583	-0.197	-0.657			11100	1.09	38865.6868	1
4133	3.591	-0.177	-0.635	-1.144	-0.166	11111	1.09	39148.9278	3

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
4163	11.184	3.867	0.000	0.000	0.000	11000	1.43	38874.6720	3
4163	10.957	3.850	2.264	2.310	-1.385	11111	1.45	39173.8642	3
4163	10.935	3.834	2.511	1.889	-0.691	11111	1.73	39175.9237	3
4166	5.890	0.656	0.006	-0.086	0.165	11111	1.01	38877.6753	3
4166	5.911	0.682	-0.005	-0.097	0.149	11111	1.01	39173.8737	3
4232	5.171	1.217	0.455	0.307	0.232	11111	1.53	38877.6890	3
4232	5.140	1.200	0.465	0.335	0.204	11111	1.58	39173.8929	3
4247	5.441	0.948	0.291	0.118	0.138	11111	1.02	38877.7025	3
4247	5.489	0.960	0.283	0.107	0.161	11111	1.00	39175.6483	3
4247	5.454	0.947	0.294	0.114	0.143	11111	1.07	39270.6548	3
4248	4.621	-0.020	0.013	-0.069	-0.062	11111	1.04	38887.6731	3
4248	4.633	-0.038	0.018	-0.038	-0.064	11111	1.02	39175.8574	3
4259	4.341	0.015	-0.016			11100	1.02	38787.8837	1
4259	4.349	0.010	0.020			11100	1.02	38791.9304	1
4287	5.814	0.999	0.314	0.196	0.132	11111	1.66	38887.6858	3
4287	5.832	1.025	0.313	0.172	0.153	11111	1.58	39175.8662	3
4295	2.339	0.001	0.066	0.004	-0.060	11111	1.13	38887.6985	3
4295	2.340	0.025	0.044	0.009	-0.061	11111	1.12	39175.9005	3
4299	7.591	1.716	0.660	0.618	0.416	11111	1.44	38887.7303	3
4299	7.569	1.747	0.708	0.615	0.411	11111	1.31	39175.9109	3
4299	7.537	1.711	0.683	0.633	0.397	11111	1.37	39270.6677	3
4300	4.511	0.065	0.111	0.010	-0.056	11111	1.02	38872.6800	3
4300	4.841	0.073	0.086	-0.022	-0.034	01111	1.03	39135.9868	1
4300	4.526	0.099	0.068	-0.049	-0.051	11111	1.02	39202.7884	3
4301	3.499	0.951	0.268	0.168	0.147	11111	1.15	38872.6941	3
4301	3.524	0.931	0.240	0.119	0.132	11111	1.15	39138.9672	3
4301	3.453	0.962	0.247	0.116	0.140	11111	1.15	39206.7760	3
4310	4.986	0.224	-0.075			11100	1.11	38786.9049	1
4310	5.092	0.241	-0.093			11100	1.11	38787.9000	1
4310	5.113	0.255	-0.079			11100	1.13	38791.9412	1
4310	5.062	0.243	-0.046	-0.184	0.015	11111	1.11	39206.7854	3
4335	4.899	1.084	0.381	0.248	0.170	11111	1.03	38872.7089	3
4335	4.913	1.092	0.373	0.227	0.173	11111	1.03	39138.9782	3
4335	4.842	1.096	0.384	0.226	0.183	11111	1.03	39206.7958	3
4357	2.770	0.121	0.084	0.037	-0.019	11111	1.06	38872.7370	3
4357	2.773	0.136	0.053	0.004	0.005	11111	1.03	39138.9875	3
4357	2.734	0.124	0.067	0.024	-0.025	11111	1.02	39227.7265	3
4359	3.346	0.009	0.065	0.078	-0.041	11111	1.11	38872.7492	3
4359	3.317	0.010	0.038	0.066	-0.027	11111	1.04	39147.9323	3
4359	3.314	0.016	0.045	0.049	-0.044	11111	1.05	39227.7368	3
4362	7.429	1.626	0.615	0.658	0.470	11111	1.11	38872.7675	3
4362	7.345	1.552	0.587	0.652	0.415	11111	1.01	39147.9459	3
4362	7.387	1.575	0.582	0.603	0.384	11111	1.02	39227.7468	3
4368	4.777	0.159	-0.020			11100	1.32	38789.8635	1
4368	4.711	0.146	0.009	0.052	0.007	11111	1.23	39148.9386	3
4368	4.757	0.138	0.033	0.075	0.036	11111	1.23	39240.6839	3
4371	7.782	1.606	0.664	0.589	0.388	11111	1.16	38874.6855	3
4371	7.875	1.612	0.687	0.599	0.386	01111	1.16	39150.9129	3
4374	4.566	0.406	-0.175	-0.492	0.032	11111	1.00	38875.6700	1
4374	4.672	0.396	-0.174	-0.476	0.056	01111	1.00	39150.9226	3
4377	5.842	1.399	0.499	0.378	0.277	11111	1.00	38875.6821	1
4377	5.936	1.395	0.492	0.368	0.309	01111	1.00	39150.9318	3
4380	4.903	0.106	0.078	-0.066	-0.044	11111	1.01	38875.6953	1
4380	4.984	0.108	0.054	-0.066	-0.045	11111	1.01	39151.9121	3
4382	5.357	1.003	0.273	0.133	0.207	11111	1.47	38888.6633	3
4382	5.337	0.971	0.281	0.131	0.237	11111	1.47	39151.9240	3
4386	3.905	-0.071	-0.035			11100	1.12	38786.9159	1
4386	4.086	-0.016	-0.090	-0.152	-0.070	11111	1.11	39151.9338	3
4392	6.485	0.856	0.156			11100	1.02	38865.7012	1
4392	6.549	0.883	0.183	0.054	0.161	11111	1.02	39154.9231	3
4392	6.509	0.881	0.184	0.050	0.133	11111	1.03	39258.6711	3
4399	4.492	0.264	-0.098			11100	1.08	38789.9421	1
4399	4.523	0.290	-0.097	-0.263	0.025	11111	1.08	39172.8899	3
4405	4.400	0.183	0.034	-0.051	-0.021	11111	1.57	38888.6762	3
4405	4.354	0.172	0.037	-0.077	0.004	11111	1.57	39172.9005	3
4434	6.676	1.732	0.672	0.595	0.463	11111	1.26	38888.6921	3
4434	6.673	1.737	0.696	0.614	0.460	11111	1.26	39172.9118	3
4434	6.697	1.741	0.690	0.630	0.467	11111	1.25	39178.8714	1
4456	5.667	-0.122	-0.402			11100	1.99	38751.8559	3
4456	5.697	-0.157	-0.380			11100	1.99	38752.8532	3
4456	5.721	-0.136	-0.394			11100	1.05	38753.0011	3
4456	5.662	-0.135	-0.395			11100	1.74	38789.7682	1
4456	5.672	-0.151	-0.351			11100	1.07	38789.9767	1
4456	5.750	-0.144	-0.373			11100	1.05	38791.8983	1
4456	5.729	-0.149	-0.385	-0.794	-0.159	11111	1.17	38872.7887	3
4456	5.705	-0.138	-0.392	-0.844	-0.147	11111	1.04	38875.7085	1
4456	5.700	-0.139	-0.388	-0.825	-0.145	11111	1.05	38878.7150	1
4456	5.694	-0.142	-0.388	-0.808	-0.158	11111	1.04	38887.6608	3
4456	5.702	-0.128	-0.390	-0.830	-0.138	11111	1.05	38888.6394	3
4456	5.662	-0.148	-0.385	-0.825	-0.148	11111	1.05	38889.6286	3
4456	5.688	-0.144	-0.395	-0.814	-0.148	11111	1.05	38890.6261	3
4456	5.710	-0.125	-0.374	-0.816	-0.138	11111	1.04	38894.6331	3
4456	5.699	-0.136	-0.392	-0.831	-0.143	11111	1.04	38896.6407	3
4456	5.663	-0.138	-0.386	-0.828	-0.151	11111	1.04	38898.6312	3
4456	5.685	-0.129	-0.393	-0.842	-0.135	11111	1.08	38916.6364	3
4456	5.700	-0.137	-0.387	-0.812	-0.149	11111	1.36	38933.6610	3
4456	5.692	-0.139	-0.399	-0.821	-0.147	11111	3.08	38933.7552	3
4456	6.051	-0.144	-0.377	-0.801	-0.181	01111	1.04	39135.9757	1
4456	5.708	-0.131	-0.371	-0.804	-0.160	11111	1.05	39138.9975	3
4456	5.700	-0.126	-0.389	-0.802	-0.175	11111	1.08	39139.9254	3
4456	5.739	-0.121	-0.431	-0.833	-0.158	01111	1.93	39150.7675	3
4456	5.790	-0.134	-0.400	-0.810	-0.151	01111	1.04	39150.9409	3
4456	5.701	-0.132	-0.386	-0.814	-0.150	11111	1.05	39172.8519	3
4456	5.690	-0.137	-0.390	-0.825	-0.140	11111	1.05	39184.8282	1
4456	5.670	-0.151	-0.382	-0.815	-0.146	11111	1.04	39201.8154	1
4456	5.723	-0.126	-0.397	-0.829	-0.150	11111	1.04	39202.8006	3
4456	5.665	-0.130	-0.403	-0.822	-0.152	11111	1.13	39227.6604	3
4456	5.685	-0.134	-0.410	-0.827	-0.148	11111	2.28	39227.9262	3
4456	5.683	-0.140	-0.398	-0.821	-0.152	11111	1.04	39240.7028	3
4456	5.667	-0.149	-0.418	-0.852	-0.149	11111	2.76	39240.9066	3
4456	5.688	-0.133	-0.390	-0.808	-0.165	11111	1.04	39243.6758	3
4456	5.723	-0.126	-0.400	-0.825	-0.111	11111	1.07	39246.7260	1
4456	5.672	-0.141	-0.406	-0.821	-0.157	11111	1.04	39247.6956	1
4456	5.689	-0.143	-0.375	-0.835	-0.157	11111	1.04	39249.6848	1
4456	5.677	-0.141	-0.404	-0.818	-0.152	11111	1.04	39251.6843	1
4456	5.706	-0.081	-0.414	-0.857	-0.181	11111	1.15	39254.7381	1
4456	5.687	-0.137	-0.387	-0.813	-0.148	11111	1.04	39257.6362	3
4456	5.704	-0.123	-0.402	-0.830	-0.155	11111	2.91	39257.8639	3
4456	5.672	-0.126	-0.394	-0.818	-0.160	11111	1.04	39258.6324	3
4456	5.689	-0.139	-0.402	-0.826	-0.145	11111	3.36	39258.8704	3
4456	5.665	-0.152	-0.367	-0.792	-0.166	11111	1.04	39268.6267	3
4456	5.682	-0.142	-0.398	-0.822	-0.143	11111	2.35	39268.8170	3
4456	5.687	-0.134	-0.412	-0.822	-0.155	11111	1.04	39269.6243	3
4456	5.699	-0.142	-0.398	-0.809	-0.179	11111	2.25	39269.8103	3
4456	5.691	-0.143	-0.399	-0.823	-0.154	11111	1.04	39270.6281	3
4456	5.702	-0.130	-0.398	-0.816	-0.164	11111	1.07	39272.6506	3
4456	5.680	-0.143	-0.383	-0.816	-0.149	11111	1.05	39274.6280	3
4456	5.683	-0.140	-0.392	-0.814	-0.154	11111	1.06	39278.6299	1
4456	5.662	-0.136	-0.394	-0.814	-0.152	11111	1.08	39280.6372	3
4456	5.711	-0.116	-0.419	-0.821	-0.133	11111	2.39	39280.7855	3
4456	5.652	-0.151	-0.390	-0.817	-0.170	11111	1.07	39281.6317	3
4456	5.714	-0.142	-0.395	-0.793	-0.159	11111	2.08	39482.8506	3
4456	5.742	-0.134	-0.402	-0.820	-0.143	11111	1.05	39508.9932	1
4468	4.542	-0.053	-0.066	-0.180	-0.079	11111	1.35	38889.6517	3
4468	4.545	-0.045	-0.098	-0.183	-0.079	11111	1.36	39174.8571	3
4468	4.576	-0.081	-0.074	-0.137	-0.101	11111	1.35	39184.8600	1
4471	5.875	0.810	0.167			11100	1.18	38866.7148	1
4471	5.786	0.872	0.165	-0.016	0.176	11111	1.18	39174.8658	3
4471	5.851	0.879	0.149	0.005	0.144	11111	1.18	39184.8695	1
4496	6.555	0.486	-0.124			11100	1.63	38708.9808	3
4496	6.378	0.579	-0.024			11100	1.06	38786.8807	1
4496	6.338	0.555	-0.024			11100	1.00	38787.9240	1
4496	6.326	0.590	-0.063			11100	1.11	38791.8436	1
4496	6.347	0.590	-0.044			11100	1.00	38865.7116	1
4496	6.347	0.505	0.005			11100	1.00	38866.7331	1
4514	6.211	0.847	0.154	-0.004	0.116	11111	1.57	38889.6633	3
4514	6.183	0.859	0.135	0.003	0.114	11111	1.57	39174.8939	3
4517	6.713	1.561	0.582			11100	1.12	38866.7525	1
4517	6.586	1.583	0.613	0.545	0.542	11111	1.12	39174.9025	3
4518	5.584	1.109	0.366	0.228	0.218	11111	1.04	38889.6797	3
4518	5.627	1.092	0.374	0.223	0.243	11111	1.04	39154.9559	3
4527	5.257	0.387	0.058	-0.030	0.029	11111	1.03	38889.6919	3
4527	5.235	0.406	0.069	-0.092	0.078	11111	1.03	39174.9113	3
4527	5.302	0.402	0.057	-0.074	0.044	11111	1.02	39178.8824	1
4534	2.296	0.108	0.064			11100	1.11	38786.8940	1
4534	2.270	0.101	0.083			11100	1.17	38787.8682	1
4534	2.240	0.132	0.064			11100	1.09	38791.8868	1
4534	2.421	0.139	0.090			11100	1.06	38868.7041	1
4534	2.250	0.116	0.090			11100	1.28	38869.6174	1
4534	2.272	0.108	0.055			11100	1.07	38869.7601	1
4534	2.269	0.103	0.050			11100	1.12	38870.7822	1
4534	2.221	0.111	0.078			11100	1.43	38870.8495	1
4534	2.234	0.103	0.061			11100	1.17	38871.6379	1
4534	2.256	0.126	0.070			11100	1.05	38871.7125	1
4534	2.296	0.108	0.058	-0.061	-0.026	11111	1.30	39479.9434	1
4540	4.314	0.397	-0.118			11100	1.17	38786.9283	1
4540	4.375	0.400	-0.111			11100	1.19	38787.9122	1
4540	4.311	0.405	-0.125			11100	1.17	38789.9464	1
4540	4.379	0.413	-0.142	-0.378	0.051	11111	1.39	39479.9592	1
4550	7.518	0.557	-0.092			11100	2.15	38751.8310	3
4550	7.508	0.577	-0.102			11100	1.93	38752.8409	3
4550	7.536	0.529	-0.078			11100	1.73	38789.7553	1
4550	7.517	0.566	-0.111			11100	1.01	38789.9296	1
4550	7.491	0.538	-0.090	-0.440	0.069	11111	1.03	38874.7523	3
4550	7.500	0.552	-0.101	-0.470	0.089	11111	1.04	38875.7624	1
4550	7.478	0.539	-0.089	-0.475	0.063	11111	1.01	38887.6497	3
4550	7.501	0.555	-0.107	-0.480	0.081	11111	1.01	38888.6504	3
4550	7.462	0.551	-0.100	-0.470	0.083	11111	1.02	38889.6399	3
4550	7.497	0.569	-0.100	-0.495	0.058	11111	1.01	38890.6456	3

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
4550	7.492	0.553	-0.093	-0.469	0.114	11111	1.01	38894.6451	3
4550	7.509	0.556	-0.092	-0.470	0.083	11111	1.00	38896.6535	3
4550	7.481	0.549	-0.107	-0.485	0.083	11111	1.01	38898.6429	3
4550	7.498	0.548	-0.098	-0.460	0.082	11111	1.04	38916.6500	3
4550	7.492	0.548	-0.108	-0.488	0.089	11111	1.24	38933.6748	3
4550	7.492	0.555	-0.075	-0.477	0.072	11111	2.12	38933.7667	3
4550	7.398	0.542	-0.060	-0.450	0.083	01111	2.32	39150.7304	3
4550	7.574	0.539	-0.111	-0.480	0.129	01111	1.01	39150.9516	3
4550	7.490	0.551	-0.105	-0.498	0.114	11111	1.02	39172.8625	3
4550	7.520	0.559	-0.107	-0.485	0.103	11111	1.09	39173.9725	3
4550	7.571	0.559	-0.105	-0.508	0.121	11111	1.15	39174.9897	3
4550	7.485	0.553	-0.081	-0.483	0.116	11111	1.03	39175.9336	3
4550	7.519	0.540	-0.103	-0.473	0.079	11111	1.08	39176.9592	3
4550	7.519	0.556	-0.113	-0.506	0.106	11111	1.01	39178.8919	1
4550	7.500	0.540	-0.083	-0.482	0.103	11111	1.01	39184.8377	1
4550	7.469	0.544	-0.102	-0.487	0.101	11111	1.01	39201.8252	1
4550	7.512	0.553	-0.100	-0.473	0.088	11111	1.01	39202.8130	3
4550	7.495	0.562	-0.119	-0.499	0.094	11111	1.02	39227.7149	3
4550	7.468	0.536	-0.093	-0.468	0.095	11111	2.27	39227.9690	3
4550	7.487	0.550	-0.110	-0.486	0.078	11111	1.00	39240.7133	3
4550	7.488	0.543	-0.103	-0.495	0.087	11111	1.01	39243.6850	3
4550	7.467	0.547	-0.108	-0.493	0.062	11111	1.01	39247.7082	1
4550	7.493	0.564	-0.115	-0.509	0.101	11111	1.08	39249.7601	1
4550	7.451	0.546	-0.083	-0.453	0.013	11111	1.12	39251.7708	1
4550	7.493	0.559	-0.116	-0.489	0.068	11111	1.01	39257.6452	3
4550	7.490	0.526	-0.070	-0.473	0.097	11111	2.20	39257.8836	3
4550	7.464	0.547	-0.099	-0.472	0.100	11111	1.01	39258.6408	3
4550	7.490	0.551	-0.071	-0.481	0.095	11111	2.69	39258.9010	3
4550	7.500	0.560	-0.105	-0.485	0.070	11111	1.00	39268.6371	3
4550	7.500	0.564	-0.106	-0.502	0.104	11111	2.31	39268.8589	3
4550	7.496	0.549	-0.109	-0.482	0.089	11111	1.00	39269.6343	3
4550	7.480	0.540	-0.078	-0.476	0.061	11111	2.15	39269.8484	3
4550	7.495	0.558	-0.101	-0.487	0.071	11111	1.01	39270.6402	3
4550	7.495	0.547	-0.098	-0.476	0.083	11111	1.03	39272.6640	3
4550	7.480	0.537	-0.086	-0.471	0.084	11111	1.01	39274.6375	3
4550	7.471	0.543	-0.078	-0.460	0.078	11111	1.04	39278.6603	1
4550	7.473	0.546	-0.097	-0.483	0.102	11111	1.03	39280.6466	3
4550	7.499	0.541	-0.089	-0.458	0.074	11111	2.14	39280.8177	3
4550	7.463	0.534	-0.085	-0.471	0.082	11111	1.03	39281.6414	3
4550	7.531	0.559	-0.094	-0.470	0.088	11111	1.65	39482.8649	3
4550	7.539	0.561	-0.108	-0.493	0.101	11111	1.04	39509.0249	1
4554	2.430	0.025	0.060	0.026	-0.045	11111	1.13	38888.7400	3
4554	2.398	0.032	0.026	-0.003	-0.044	11111	1.08	39174.9204	3
4589	4.850	0.062	0.105			11100	1.11	38789.9663	1
4589	4.815	0.078	0.084	0.131	-0.005	11111	1.11	39154.9657	3
4608	5.584	0.832	0.056			11100	1.09	38865.7372	1
4608	5.628	0.828	0.075	-0.144	0.146	11111	1.09	38896.6755	3
4608	5.621	0.824	0.073	-0.138	0.141	11111	1.09	39184.8798	1
4660	3.413	0.092	0.077			11100	1.10	38865.7473	1
4660	3.483	0.099	0.078	0.007	-0.047	11111	1.11	38896.6880	3
4660	3.426	0.105	0.065	-0.003	-0.011	11111	1.10	39184.8898	1
4662	2.387	-0.118	-0.251			11100	1.57	38869.7160	1
4662	2.372	-0.113	-0.219	-0.402	-0.081	11111	1.55	38898.6556	3
4662	2.466	-0.100	-0.239	-0.424	-0.097	11111	1.55	39199.8248	3
4689	3.894	0.024	0.099			11100	1.20	38786.9394	1
4689	3.893	0.010	0.093			11100	1.20	38787.9358	1
4689	3.936	0.051	0.085			11100	1.19	38789.9885	1
4689	0.000	0.013	0.084			00100	1.18	38791.9599	1
4695	6.813	1.087	0.370			11100	1.15	38869.7323	1
4695	6.846	1.083	0.384	0.259	0.267	11111	1.14	38898.6665	3
4695	6.844	1.071	0.396	0.285	0.259	11111	1.14	39199.8350	3
4697	6.260	0.855	0.184	0.016	0.199	11111	1.04	38874.7179	3
4697	6.311	0.883	0.176	0.021	0.192	11111	1.03	38898.6773	3
4697	6.283	0.853	0.192	0.021	0.193	11111	1.03	39199.8458	3
4707	5.482	0.346	0.094	-0.015	0.018	11111	1.01	38874.7308	3
4707	5.510	0.347	0.085	-0.012	0.025	11111	1.01	38898.6901	3
4707	5.516	0.367	0.069	-0.046	0.032	11111	1.01	39178.9068	1
4716	6.097	0.739	0.043			11100	1.06	38865.7566	1
4716	6.110	0.756	0.072	-0.063	0.153	11111	1.06	39148.9696	3
4716	6.088	0.738	0.080	-0.061	0.160	11111	1.06	39201.8353	1
4737	6.179	1.102	0.373			11100	1.00	38865.7660	1
4737	6.246	1.108	0.460			11100	1.01	38868.7271	1
4737	6.206	1.103	0.390	0.285	0.130	11111	1.00	39148.9932	3
4737	6.124	1.109	0.379	0.270	0.124	11111	1.00	39197.8525	3
4757	2.921	-0.012	-0.010	-0.117	-0.082	11111	1.52	38875.7219	1
4757	2.897	-0.011	-0.005	-0.116	-0.080	11111	1.52	39149.0034	3
4757	2.839	-0.035	-0.049	-0.134	-0.062	11111	1.52	39197.8617	3
4775	4.840	0.262	-0.124	-0.318	-0.002	11111	1.50	38875.7346	1
4775	4.788	0.233	-0.110	-0.318	-0.018	11111	1.51	39150.9660	3
4775	4.762	0.268	-0.143	-0.361	0.002	11111	1.51	39197.8707	3
4785	5.078	0.379	-0.199			11100	1.02	38868.7431	1
4785	5.058	0.399	-0.149	-0.430	0.024	11111	1.01	38875.7482	1
4785	5.053	0.384	-0.116	-0.419	0.022	11111	1.01	39150.9763	3
4785	5.061	0.392	-0.141	-0.441	0.033	11111	1.01	39184.9005	1
4785	5.048	0.423	-0.115	-0.449	0.030	11111	1.03	39251.7414	1
4787	3.675	-0.118	-0.389	-0.772	-0.094	11111	1.27	38890.6593	3
4787	3.657	-0.142	-0.377	-0.758	-0.092	11111	1.26	39150.9862	3
4787	3.647	-0.122	-0.394	-0.753	-0.105	11111	1.26	39201.8456	1
4789	4.777	0.007	0.026	-0.002	-0.056	11111	1.03	38890.6706	3
4789	4.749	-0.026	0.050	0.025	-0.069	11111	1.02	39150.9962	3
4789	4.766	0.022	0.026	-0.012	-0.054	11111	1.02	39201.8561	1
4813	6.731	1.262	0.497	0.432	0.154	11111	1.32	38890.6807	3
4813	6.687	1.258	0.498	0.444	0.182	11111	1.31	39154.9822	3
4813	6.723	1.246	0.529	0.455	0.159	11111	1.32	39227.7574	3
4825	3.273	0.276	-0.204			11100	1.23	38786.9517	1
4825	3.212	0.259	-0.166			11100	1.21	38787.9691	1
4825	3.237	0.234	-0.130			11100	1.21	38789.9993	1
4825	3.338	0.255	-0.176			11100	1.20	38791.9721	1
4828	4.977	0.088	0.082	-0.037	-0.054	11111	1.08	38890.6911	3
4828	4.990	0.076	0.093	-0.024	-0.061	11111	1.08	39172.9240	3
4828	5.004	0.107	0.055	-0.049	-0.057	11111	1.08	39227.7673	3
4845	6.669	0.402	-0.164	-0.516	0.035	11111	1.01	39254.7095	1
4845	6.702	0.380	-0.225	-0.530	0.045	11111	1.03	39258.6602	3
4846	12.258	4.886	0.000	0.000	0.000	11000	1.03	38890.7053	3
4846	12.864	4.889	0.000	1.603	-2.399	11011	1.03	39173.9407	3
4846	12.805	4.831	0.000	0.733	-0.948	11011	1.03	39176.9104	3
4846	12.263	4.810	3.465	1.253	-1.303	11111	1.03	39249.7411	1
4846	12.369	4.891	2.911	1.278	-1.123	11111	1.04	39270.6919	3
4883	5.855	0.466	-0.135	-0.296	0.066	11111	1.02	38890.7433	3
4883	5.879	0.392	0.124	-0.309	0.083	11111	1.01	39172.9525	3
4883	5.915	0.496	-0.146	-0.345	0.120	11111	1.00	39178.9256	1
4902	7.371	1.460	0.417	0.363	0.273	11111	1.39	38890.7533	3
4902	7.389	1.523	0.454	0.396	0.270	11111	1.35	39173.9152	3
4902	7.347	1.487	0.437	0.367	0.285	11111	1.35	39229.7615	3
4905	1.735	-0.001	0.024	0.072	-0.042	11111	1.13	38890.7652	3
4905	1.727	0.015	-0.008	0.061	-0.037	11111	1.09	39173.9247	3
4905	1.752	0.005	0.002	0.048	-0.013	11111	1.09	39229.7971	3
4910	6.003	1.511	0.596	0.647	0.522	11111	1.18	38894.6580	3
4910	5.978	1.524	0.613	0.660	0.504	11111	1.14	39173.9342	3
4910	5.980	1.512	0.638	0.643	0.549	11111	1.16	39240.7246	3
4914	6.025	0.218	-0.089	-0.302	-0.025	11111	1.01	38894.6783	3
4914	6.010	0.225	-0.131	-0.361	0.012	11111	1.01	39174.9433	3
4914	5.988	0.186	-0.183	-0.397	0.100	11111	1.01	39240.7362	3
4915	2.791	-0.047	-0.201	-0.420	-0.079	11111	1.01	38894.6921	3
4915	3.032	0.011	-0.266	-0.479	-0.061	11111	1.02	39174.9612	3
4915	2.930	-0.062	-0.265	-0.544	0.071	11111	1.01	39240.7568	3
4920	7.538	1.723	0.698	0.594	0.453	11111	1.03	38894.7038	3
4920	7.496	1.694	0.680	0.597	0.384	11111	1.07	39174.9792	3
4920	7.526	1.695	0.699	0.605	0.391	11111	1.03	39227.7906	3
4931	5.449	0.272	-0.127	-0.292	0.008	11111	1.10	38894.7163	3
4931	5.411	0.238	-0.096	-0.285	-0.002	11111	1.10	39154.9938	3
4931	5.411	0.251	-0.086	-0.287	0.019	11111	1.10	39184.9111	1
4932	4.265	0.792	0.155			11100	1.08	38839.8682	3
4932	4.297	0.816	0.146	0.012	0.131	11111	1.07	38896.7004	3
4932	4.280	0.794	0.174	0.029	0.107	11111	1.07	39199.8806	3
4954	7.529	1.671	0.639			11100	1.01	38866.7738	1
4954	7.402	1.616	0.678	0.568	0.383	11111	1.00	39149.0150	3
4954	7.400	1.603	0.684	0.585	0.340	11111	1.02	39199.9087	3
4963	4.371	-0.027	0.045			11100	1.27	38866.7948	1
4963	4.366	0.023	-0.019	0.038	-0.072	11111	1.27	39149.0247	3
4963	4.383	-0.036	0.005	0.040	-0.042	11111	1.26	39202.8660	3
4983	5.039	0.406	-0.186			11100	1.00	38869.7757	1
4983	5.029	0.387	-0.104	-0.384	0.001	11111	1.00	39151.0067	3
4983	5.014	0.396	-0.128	-0.405	0.003	11111	1.00	39201.8660	1
4983	5.000	0.403	-0.133	-0.443	0.006	11111	1.01	39251.7570	1
5017	5.152	0.279	-0.022			11100	1.01	38869.7870	1
5017	5.154	0.234	0.048	0.041	-0.012	11111	1.01	39151.0167	3
5017	5.154	0.271	0.020	-0.005	0.038	11111	1.01	39201.8751	1
5019	5.721	0.573	-0.060			11100	1.57	38871.7782	1
5019	5.707	0.541	-0.003	-0.326	0.035	11111	1.57	39151.0267	3
5019	5.808	0.543	-0.032	-0.301	0.032	11111	1.58	39202.8864	3
5054	2.107	0.058	0.075	-0.034	-0.025	11111	1.08	38874.7770	3
5054	2.096	0.047	0.091	0.005	-0.070	11111	1.09	39151.0373	3
5054	2.100	0.069	0.057	-0.041	-0.038	11111	1.09	39176.9688	3
5056	0.649	-0.217	-0.588	-1.140	-0.163	11111	1.38	38874.7899	3
5056	0.564	-0.204	-0.584	-1.119	-0.173	11111	1.38	39155.0222	3
5056	0.622	-0.196	-0.601	-1.135	-0.178	11111	1.39	39176.9285	3
5062	4.232	0.149	0.051	-0.044	-0.029	11111	1.08	38875.7767	1
5062	4.258	0.160	0.014	-0.063	-0.031	11111	1.09	39173.9449	3
5062	4.176	0.156	0.017	-0.090	-0.017	11111	1.09	39197.9019	3
5068	6.552	1.044	0.335	0.265	0.099	11111	1.51	38875.7904	1
5068	6.541	1.066	0.327	0.253	0.097	11111	1.50	39173.9539	3
5068	6.477	1.044	0.336	0.254	0.087	11111	1.51	39197.9122	3
5072	5.984	0.540	-0.036	-0.315	0.071	11111	1.07	38875.8037	1
5072	6.009	0.556	-0.066	-0.332	0.064	11111	1.05	39173.9626	3
5072	6.159	0.592	-0.120	-0.405	0.026	11111	1.06	39202.8969	3

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
5095	7.527	1.738	0.646			11100	1.28	38869.8052	1
5095	7.494	1.678	0.667	0.661	0.437	11111	1.28	39175.9444	3
5095	7.619	1.684	0.665	0.689	0.467	11111	1.29	39202.9068	3
5105	4.915	0.022	0.032			11100	1.17	38786.9866	1
5105	4.950	0.037	0.030			11100	1.17	38787.9795	1
5105	4.941	0.075	0.045	-0.112	-0.009	11111	1.14	39206.8561	3
5107	3.412	0.088	0.076			11100	1.19	38786.9975	1
5107	3.587	0.088	0.133			11100	1.20	38787.9887	1
5107	3.513	0.098	0.034	-0.030	-0.026	11111	1.18	39206.8726	3
5110	5.496	0.250	-0.084	-0.204	0.032	11111	1.00	38887.7441	3
5110	5.502	0.239	-0.077	-0.209	0.046	11111	1.00	39175.9631	3
5110	5.462	0.249	-0.118	-0.234	0.051	11111	1.00	39206.8816	3
5112	4.819	0.086	0.027			11100	1.05	38870.8035	1
5112	4.863	0.117	0.072	0.055	0.000	11111	1.04	39175.9540	3
5112	4.853	0.127	0.073	0.036	0.005	11111	1.05	39268.6807	3
5127	5.082	0.155	-0.028			11100	1.00	38871.8032	1
5127	5.045	0.175	-0.007	-0.044	0.021	11111	1.00	39175.9726	3
5127	5.055	0.154	-0.030	-0.075	0.025	11111	1.01	39206.8905	3
5154	7.528	1.721	0.665	0.620	0.498	11111	1.08	38887.7558	3
5154	7.462	1.670	0.658	0.615	0.404	11111	1.09	39175.9887	3
5154	7.460	1.678	0.673	0.626	0.418	11111	1.08	39268.6931	3
5185	5.144	0.345	-0.145	-0.379	0.019	11111	1.03	38888.7549	3
5185	5.150	0.332	-0.133	-0.371	0.030	11111	1.05	39175.9973	3
5185	5.163	0.355	-0.150	-0.395	0.045	11111	1.04	39268.7040	3
5191	1.604	-0.141	-0.395	-0.829	-0.162	11111	1.05	38888.7665	3
5191	1.594	-0.156	-0.400	-0.831	-0.136	11111	1.05	39155.0326	3
5191	1.606	-0.133	-0.388	-0.811	-0.160	11111	1.06	39269.6775	3
5200	6.696	1.658	0.652	0.561	0.376	11111	1.05	38889.7394	3
5200	6.725	1.661	0.671	0.578	0.396	11111	1.07	39176.0054	3
5200	6.696	1.656	0.668	0.573	0.380	11111	1.05	39269.6868	3
5219	7.542	1.684	0.651	0.694	0.495	11111	1.00	38889.7509	3
5219	7.608	1.630	0.691	0.715	0.502	11111	1.03	39176.0141	3
5219	7.569	1.638	0.638	0.685	0.535	11111	1.00	39269.6966	3
5226	7.254	1.528	0.608	0.659	0.513	11111	1.19	38889.7623	3
5226	7.191	1.531	0.681	0.719	0.496	11111	1.21	39176.0239	3
5226	7.228	1.515	0.637	0.638	0.527	11111	1.19	39258.7140	3
5235	3.486	0.470	-0.095			11100	1.10	38786.9748	1
5235	3.513	0.479	-0.064			11100	1.17	38787.9468	1
5235	3.512	0.454	-0.077			11100	1.30	38789.9140	1
5235	3.525	0.466	-0.088			11100	1.06	38791.9816	1
5235	3.504	0.447	-0.090			11100	1.05	38865.7877	1
5235	3.509	0.448	-0.093			11100	1.11	38865.8884	1
5235	3.472	0.454	-0.097			11100	1.27	38869.7008	1
5235	3.509	0.436	-0.111			11100	1.03	38869.8198	1
5235	3.487	0.445	-0.095			11100	1.06	38871.7615	1
5264	4.270	0.033	0.141			11100	1.19	38787.0096	1
5264	4.353	0.079	0.062			11100	1.20	38787.9996	1
5264	4.362	0.078	0.061	0.121	0.023	11111	1.16	39269.7272	3
5291	3.554	-0.034	-0.050			11100	1.19	38865.7964	1
5291	3.525	-0.059	-0.035	-0.043	-0.056	11111	1.18	38921.6886	3
5291	3.572	-0.050	-0.034	-0.032	-0.052	11111	1.18	39199.9191	3
5299	7.592	1.213	0.542			11100	1.03	38865.8062	1
5299	7.599	1.169	0.619	0.823	0.681	11111	1.02	38922.6829	1
5299	7.585	1.129	0.622	0.754	0.609	11111	1.02	39199.9294	3
5304	5.502	0.338	-0.200			11100	1.01	38870.8198	1
5304	5.486	0.351	-0.166	-0.380	0.039	11111	1.01	38922.6939	1
5304	5.551	0.377	-0.155	-0.373	0.041	11111	1.01	39199.9389	3
5313	4.846	-0.077	-0.242			11100	1.15	38871.8200	1
5313	4.787	-0.111	-0.283	-0.566	-0.119	11111	1.19	38922.7169	1
5313	4.860	-0.070	-0.241	-0.534	-0.126	11111	1.15	39202.9181	3
5313	4.843	-0.077	-0.237	-0.529	-0.117	11111	1.19	39272.6802	3
5313	4.827	-0.122	-0.209	-0.508	-0.136	11111	1.18	39297.6876	3
5315	6.430	1.318	0.528	0.358	0.325	11111	1.36	38872.8124	3
5315	6.417	1.334	0.508	0.372	0.315	11111	1.36	38923.6799	1
5315	6.396	1.333	0.532	0.367	0.323	11111	1.37	39202.9297	3
5328	4.656	0.163	0.016	-0.056	-0.002	11111	1.06	38923.6904	1
5328	4.669	0.164	0.033	-0.034	0.003	11111	1.06	39201.9311	1
5338	4.798	0.344	-0.172	-0.389	0.056	11111	1.27	38874.8192	3
5338	4.757	0.338	-0.171	-0.382	0.038	11111	1.30	38923.7101	1
5338	4.770	0.326	-0.141	-0.376	0.017	11111	1.29	39202.9401	3
5340	1.901	1.170	0.405			11100	1.18	38871.9099	1
5340	1.896	1.162	0.421	0.283	0.335	11111	1.03	38923.7001	1
5340	1.962	1.172	0.427	0.274	0.325	11111	1.03	39176.9796	3
5340	1.979	1.190	0.429	0.295	0.327	11111	1.04	39272.6916	3
5340	1.945	1.156	0.440	0.324	0.303	11111	1.06	39297.6981	3
5350	5.047	0.175	0.025	-0.109	-0.016	11111	1.06	38874.8351	3
5350	5.066	0.192	0.011	-0.108	-0.038	11111	1.06	38924.6748	3
5350	5.022	0.172	0.036	-0.122	-0.002	11111	1.07	39201.9401	1
5351	4.321	0.090	0.074	-0.029	-0.049	11111	1.05	38874.8487	3
5351	4.316	0.122	0.053	-0.040	-0.056	11111	1.03	38924.6845	3
5351	4.220	0.075	0.053	-0.029	-0.046	11111	1.03	39206.9006	3
5359	4.727	0.146	0.078	0.020	-0.019	11111	1.43	38887.7812	3
5359	4.677	0.122	0.098	-0.004	-0.006	11111	1.44	38925.6520	3
5359	4.675	0.117	0.049	-0.021	-0.001	11111	1.43	39206.9113	3
5361	6.469	0.958	0.275	0.114	0.135	11111	1.01	38887.7934	3
5361	6.463	0.960	0.269	0.112	0.127	11111	1.01	38924.6951	3
5361	6.421	0.967	0.237	0.082	0.170	11111	1.01	39206.9219	3
5370	6.880	1.245	0.514	0.395	0.140	11111	1.04	38925.6624	3
5370	6.881	1.239	0.506	0.410	0.143	11111	1.04	39227.8503	3
5370	6.890	1.244	0.511	0.416	0.137	11111	1.05	39272.7034	3
5384	7.111	0.433	-0.129	-0.450	0.034	11111	1.17	39258.7569	3
5384	7.123	0.454	-0.162	-0.474	0.050	11111	1.30	39269.6631	3
5404	4.734	0.342	-0.178	-0.428	0.050	11111	1.06	38888.7796	3
5404	4.714	0.350	-0.154	-0.404	0.016	11111	1.06	38925.6728	3
5404	4.742	0.345	-0.169	-0.422	0.032	11111	1.06	39227.8606	3
5409	5.795	0.497	-0.098	-0.317	0.071	11111	1.21	38888.7910	3
5409	5.732	0.479	-0.086	-0.290	0.067	11111	1.21	38925.6856	3
5409	5.782	0.497	-0.117	-0.303	0.050	11111	1.23	39227.8798	3
5429	5.764	1.292	0.527			11100	1.00	38839.9019	3
5429	5.740	1.290	0.553	0.443	0.192	11111	1.00	38926.6661	3
5429	5.723	1.289	0.553	0.392	0.237	11111	1.00	39240.8291	3
5430	6.672	1.477	0.614	0.480	0.298	11111	1.39	38888.8290	3
5430	6.694	1.497	0.609	0.497	0.282	11111	1.38	38926.6546	3
5430	6.706	1.506	0.628	0.487	0.303	11111	1.38	39257.7551	3
5435	3.343	0.165	0.043			11100	1.01	38839.9115	3
5435	3.326	0.151	0.065	0.030	-0.024	11111	1.01	38926.6785	3
5435	3.284	0.148	0.056	0.024	0.001	11111	1.01	39268.7396	3
5447	4.963	0.213	-0.181			11100	1.00	38839.9201	3
5447	4.940	0.243	-0.173	-0.396	-0.022	11111	1.00	38928.6726	3
5447	4.929	0.194	-0.167	-0.415	0.001	11111	1.00	39240.8385	3
5475	4.404	-0.038	-0.223			11100	1.04	38870.8316	1
5475	4.485	-0.020	-0.191	-0.428	-0.090	11111	1.04	38928.6826	3
5475	4.470	-0.016	-0.190	-0.422	-0.097	11111	1.04	39268.7505	3
5477	3.870	0.059	0.066			11100	1.06	38869.8380	1
5477	3.853	0.080	0.072	0.018	-0.055	11111	1.06	38928.6931	3
5487	4.358	0.228	-0.153			11100	1.36	38788.0114	1
5487	4.386	0.250	-0.148	-0.343	0.012	11111	1.28	38929.6557	3
5490	7.653	1.706	0.607			11100	1.01	38865.8508	1
5490	7.575	1.626	0.575	0.589	0.440	11111	1.01	38929.6675	3
5490	7.645	1.671	0.661	0.693	0.505	11111	1.02	39172.9856	3
5490	7.612	1.676	0.621	0.615	0.467	11111	1.01	39197.9240	3
5490	7.598	1.658	0.587	0.589	0.471	11111	1.01	39279.7147	3
5490	0.000	0.013	0.642	0.654	0.470	00111	1.01	39296.6657	3
5502	6.084	0.847	0.147			11100	1.04	38865.8591	1
5502	6.128	0.825	0.164	0.022	0.106	11111	1.04	39173.0046	3
5502	6.038	0.848	0.146	-0.006	0.143	11111	1.04	39197.9341	3
5505	3.816	0.780	0.183			11100	1.01	38865.8684	1
5505	3.850	0.805	0.181	0.076	0.039	11111	1.01	39172.9946	3
5505	3.838	0.784	0.174	0.070	0.062	11111	1.01	39176.9900	3
5511	3.686	-0.004	-0.011			11100	1.16	38871.8376	1
5511	3.745	0.004	-0.001	-0.032	-0.049	11111	1.16	39173.0130	3
5511	3.684	0.015	-0.032	-0.051	-0.052	11111	1.16	39197.9442	3
5531	2.974	0.146	0.075	-0.017	0.003	11111	1.51	38889.7784	3
5531	2.966	0.143	0.042	-0.013	-0.002	11111	1.50	39173.0215	3
5544	5.631	0.607	-0.017	-0.359	0.050	11111	1.04	38889.8221	3
5544	5.664	0.621	-0.043	-0.361	0.036	11111	1.03	39173.9954	3
5544	5.642	0.611	-0.033	-0.363	0.034	11111	1.03	39258.7883	3
5563	4.646	1.567	0.646	0.488	0.341	11111	1.36	38889.8368	3
5563	4.611	1.537	0.644	0.502	0.353	11111	1.35	39155.0432	3
5563	4.623	1.560	0.618	0.481	0.339	11111	1.35	39257.7645	3
5570	4.895	0.226	-0.091	-0.208	0.009	11111	1.25	38890.7766	3
5570	4.899	0.212	-0.082	-0.191	-0.004	11111	1.25	39174.0043	3
5570	4.874	0.202	-0.068	-0.197	0.030	11111	1.25	39258.7796	3
5586	4.895	-0.025	-0.046	-0.110	-0.066	11111	1.35	38890.8316	3
5586	5.630	0.076	-0.147	-0.191	-0.083	11111	1.32	39174.0131	3
5586	4.900	-0.012	-0.066	-0.147	-0.051	11111	1.33	39258.7693	3
5586	4.929	-0.015	-0.073	-0.139	-0.049	11111	1.32	39279.7250	3
5589	6.936	1.231	0.570	0.677	0.597	11111	1.20	38890.7897	3
5589	7.030	1.184	0.535	0.492	0.892	11111	1.20	39175.0040	3
5589	7.050	1.160	0.616	0.761	0.666	11111	1.20	39257.7743	3
5589	7.081	1.223	0.614	0.772	0.842	11111	1.20	39279.7364	3
5600	7.474	1.629	0.626			11100	1.01	38839.9299	3
5600	7.400	1.609	0.657	0.551	0.305	11111	1.01	38921.7051	3
5601	5.942	0.921	0.208			11100	1.16	38870.8686	1
5601	5.995	0.918	0.233	0.051	0.182	11111	1.16	38921.7182	3

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
5602	4.993	0.835	0.101			11100	1.01	38839.9391	3
5602	4.930	0.796	0.140	0.033	0.137	11111	1.01	38925.6978	3
5616	6.564	1.235	0.436			11100	1.00	38871.8557	1
5616	6.608	1.241	0.441	0.313	0.245	11111	1.00	38924.7057	3
5634	5.482	0.290	-0.183			11100	1.01	38871.8692	1
5634	5.522	0.299	-0.175	-0.416	0.001	11111	1.02	38925.7341	3
5652	4.438	-0.069	-0.237	-0.474	-0.078	11111	1.65	38874.8735	3
5652	4.424	-0.078	-0.214	-0.434	-0.093	11111	1.63	38926.6961	3
5681	4.914	0.772	0.136	-0.031	0.173	11111	1.02	38874.8867	3
5681	4.965	0.789	0.163	-0.037	0.154	11111	1.00	38926.7066	3
5685	2.260	-0.129	-0.256			11100	1.52	38787.0194	1
5685	2.393	-0.139	-0.266			11100	1.50	38788.0207	1
5685	2.479	-0.087	-0.254			11100	1.53	38790.0088	1
5685	2.435	-0.115	-0.255			11100	2.41	38839.8016	3
5685	2.442	-0.117	-0.240			11100	1.34	38839.9591	3
5685	2.490	-0.096	-0.268	-0.367	-0.105	11111	2.13	38872.7249	3
5685	2.390	-0.213	-0.285	-0.422	-0.099	11111	1.37	38872.8903	3
5685	2.467	-0.110	-0.254	-0.391	-0.096	11111	1.41	38874.8055	3
5685	2.457	-0.094	-0.259	-0.390	-0.083	11111	1.34	38874.8611	3
5685	2.461	-0.095	-0.259	-0.382	-0.098	11111	1.36	38875.8206	1
5685	2.432	-0.107	-0.266	-0.385	-0.084	11111	2.04	38877.7168	3
5685	2.476	-0.099	-0.270	-0.392	-0.089	11111	1.41	38887.7696	3
5685	2.440	-0.109	-0.250	-0.396	-0.089	11111	2.22	38887.9569	3
5685	2.417	-0.115	-0.271	-0.384	-0.097	11111	1.34	38888.8148	3
5685	2.431	-0.112	-0.249	-0.387	-0.088	11111	1.34	38889.8100	3
5685	2.442	-0.113	-0.273	-0.385	-0.088	11111	1.34	38890.8202	3
5685	2.401	-0.122	-0.262	-0.377	-0.093	11111	1.35	38894.8173	3
5685	2.388	-0.115	-0.283	-0.406	-0.123	11111	2.04	38898.9165	3
5685	2.425	-0.101	-0.249	-0.393	-0.073	11111	1.35	38916.7175	3
5685	2.459	-0.101	-0.284	-0.379	-0.109	11111	2.33	38916.8827	3
5685	2.412	-0.101	-0.266	-0.407	-0.103	11111	1.34	38917.7234	3
5685	2.449	-0.091	-0.291	-0.416	-0.092	11111	2.39	38917.8828	3
5685	2.416	-0.116	-0.255	-0.375	-0.094	11111	1.34	38918.7312	3
5685	2.445	-0.108	-0.263	-0.383	-0.097	11111	1.54	38919.6523	1
5685	2.374	-0.121	-0.263	-0.385	-0.107	11111	1.53	38921.6482	3
5685	2.411	-0.094	-0.257	-0.399	-0.092	11111	1.34	38921.7298	3
5685	2.416	-0.119	-0.266	-0.371	-0.096	11111	1.48	38922.6561	1
5685	2.454	-0.100	-0.268	-0.390	-0.090	11111	1.46	38923.6570	1
5685	2.430	-0.112	-0.267	-0.369	-0.102	11111	1.34	38923.7197	1
5685	2.419	-0.090	-0.257	-0.384	-0.096	11111	1.47	38924.6526	3
5685	2.435	-0.104	-0.263	-0.376	-0.097	11111	1.34	38924.7156	3
5685	2.437	-0.106	-0.279	-0.401	-0.083	11111	2.64	38924.8730	3
5685	2.397	-0.111	-0.252	-0.393	-0.103	11111	1.60	38925.6275	3
5685	2.432	-0.117	-0.285	-0.386	-0.100	11111	1.34	38925.7142	3
5685	2.445	-0.109	-0.247	-0.368	-0.095	11111	2.08	38925.8456	3
5685	2.408	-0.107	-0.252	-0.367	-0.124	11111	1.55	38926.6322	3
5685	2.446	-0.122	-0.244	-0.373	-0.102	11111	1.34	38926.7180	3
5685	2.447	-0.123	-0.278	-0.380	-0.094	11111	2.39	38926.8582	3
5685	2.430	-0.122	-0.253	-0.373	-0.090	11111	1.44	38928.6492	3
5685	2.443	-0.101	-0.286	-0.400	-0.099	11111	2.50	38928.8571	3
5685	2.398	-0.107	-0.261	-0.369	-0.097	11111	1.50	38929.6329	3
5685	2.461	-0.092	-0.286	-0.400	-0.108	11111	2.38	38929.8494	3
5685	2.470	-0.087	-0.274	-0.384	-0.120	11111	1.58	39139.0458	3
5685	2.450	-0.090	-0.272	-0.390	-0.071	11111	2.21	39139.9892	3
5685	2.479	-0.098	-0.304	-0.393	-0.094	11111	2.44	39140.9757	3
5685	2.435	-0.109	-0.247	-0.347	-0.118	11111	2.17	39147.9694	3
5685	2.425	-0.097	-0.271	-0.392	-0.082	11111	2.34	39148.9584	3
5685	2.438	-0.093	-0.277	-0.381	-0.118	11111	1.42	39149.0498	3
5685	2.431	-0.113	-0.242	-0.372	-0.123	11111	1.41	39151.0490	3
5685	2.457	-0.102	-0.274	-0.390	-0.105	11111	2.29	39154.9440	3
5685	2.403	-0.109	-0.257	-0.371	-0.112	11111	1.37	39155.0523	3
5685	2.452	-0.102	-0.271	-0.381	-0.114	11111	1.34	39173.0400	3
5685	2.445	-0.087	-0.292	-0.391	-0.104	11111	2.08	39173.9034	3
5685	2.464	-0.101	-0.272	-0.397	-0.100	11111	2.42	39174.8841	3
5685	2.459	-0.095	-0.292	-0.391	-0.096	11111	2.23	39175.8895	3
5685	2.427	-0.134	-0.231	-0.355	-0.102	11111	1.34	39176.0332	3
5685	2.448	-0.099	-0.276	-0.376	-0.117	11111	1.36	39185.0328	1
5685	2.382	-0.116	-0.278	-0.399	-0.106	11111	1.34	39197.9539	3
5685	2.451	-0.099	-0.259	-0.368	-0.115	11111	1.40	39201.9120	1
5685	2.433	-0.104	-0.294	-0.404	-0.104	11111	1.34	39202.9520	3
5685	2.405	-0.108	-0.275	-0.420	-0.077	11111	1.34	39206.9311	3
5685	2.422	-0.103	-0.257	-0.371	-0.118	11111	1.34	39228.8682	1
5685	2.424	-0.107	-0.264	-0.391	-0.086	11111	2.38	39229.7355	3
5685	2.404	-0.112	-0.275	-0.384	-0.100	11111	1.38	39229.9197	3
5685	2.389	-0.095	-0.256	-0.386	-0.061	11111	1.35	39231.8586	1
5685	2.395	-0.097	-0.276	-0.383	-0.108	11111	1.35	39241.8264	3
5685	2.439	-0.107	-0.241	-0.374	-0.109	11111	1.34	39246.8302	1
5685	2.464	-0.103	-0.269	-0.372	-0.111	11111	1.55	39246.9152	1
5685	2.481	-0.103	-0.235	-0.368	-0.071	11111	1.34	39247.8183	1
5685	2.465	-0.114	-0.260	-0.374	-0.117	11111	1.35	39249.8497	1
5685	2.444	-0.111	-0.250	-0.394	-0.078	11111	1.34	39252.8307	1
5685	2.433	-0.102	-0.269	-0.390	-0.098	11111	1.34	39257.8047	3
5685	2.448	-0.096	-0.274	-0.386	-0.098	11111	1.39	39270.7282	3
5685	2.434	-0.104	-0.266	-0.403	-0.093	11111	2.49	39270.9200	3
5685	2.427	-0.115	-0.261	-0.383	-0.086	11111	1.41	39272.7162	3
5685	2.412	-0.123	-0.268	-0.378	-0.090	11111	2.59	39272.9182	3
5685	2.454	-0.096	-0.274	-0.374	-0.097	11111	1.44	39279.6873	3
5685	2.452	-0.099	-0.273	-0.377	-0.104	11111	1.34	39280.7342	3
5685	2.463	-0.102	-0.260	-0.360	-0.100	11111	1.34	39281.7310	3
5685	2.446	-0.103	-0.283	-0.395	-0.091	11111	2.29	39281.8817	3
5685	2.453	-0.106	-0.272	-0.385	-0.110	11111	1.41	39295.6516	1
5685	2.455	-0.110	-0.269	-0.388	-0.104	11111	1.41	39296.6489	3
5685	2.438	-0.108	-0.262	-0.386	-0.131	11111	1.37	39297.6649	3
5685	2.451	-0.086	-0.257	-0.356	-0.113	11111	1.38	39298.6537	1
5685	2.436	-0.100	-0.275	-0.393	-0.103	11111	1.41	39300.6381	3
5685	2.453	-0.103	-0.258	-0.359	-0.108	11111	1.34	39307.6579	1
5685	2.468	-0.100	-0.261	-0.365	-0.106	11111	1.34	39313.6411	1
5685	2.474	-0.117	-0.278	-0.374	-0.108	11111	1.57	39313.7350	1
5733	4.732	0.225	-0.064	-0.187	0.010	11111	1.01	38875.8349	1
5733	4.732	0.223	-0.052	-0.176	0.024	11111	1.00	38928.7145	3
5735	3.082	0.011	-0.061			11100	1.30	38869.6564	1
5735	3.095	0.005	-0.036	0.294	0.008	11111	1.30	38928.7050	3
5735	3.072	0.003	-0.059	0.276	0.032	11111	1.30	39257.7847	3
5744	5.228	1.142	0.397			11100	1.12	38869.8726	1
5744	5.214	1.136	0.449	0.327	0.165	11111	1.13	38929.6788	3
5747	4.085	0.259	0.007	-0.158	0.017	11111	1.00	38875.8475	1
5747	4.090	0.272	0.002	-0.153	0.005	11111	1.01	38929.6891	3
5763	7.822	1.658	0.597	0.493	0.445	11111	1.03	38894.7684	3
5764	5.301	-0.152	-0.487	-0.950	-0.171	11111	1.53	38875.8659	1
5764	5.278	-0.158	-0.480	-0.917	-0.189	11111	1.56	39184.9838	1
5774	5.099	0.070	0.066	0.140	0.016	11111	1.01	39185.0053	1
5777	6.180	0.912	0.257	0.061	0.157	11111	1.38	38894.7808	3
5777	6.194	0.907	0.274	0.055	0.141	11111	1.36	38929.6994	3
5778	3.959	-0.136	-0.319			11100	1.00	38839.9492	3
5778	3.945	-0.126	-0.349	-0.668	-0.113	11111	1.00	39185.0144	1
5780	4.973	-0.100	-0.278	-0.604	-0.128	11111	1.34	38894.8283	3
5780	5.016	-0.060	-0.313	-0.612	-0.152	11111	1.34	39185.0232	1
5787	5.415	0.859	0.161	-0.040	0.176	11111	1.47	38896.8148	3
5787	5.455	0.858	0.187	-0.017	0.172	11111	1.47	39199.9666	3
5788	4.090	0.196	-0.009	-0.065	0.011	11111	1.09	38896.8280	3
5788	4.142	0.204	0.008	-0.063	-0.002	11111	1.08	39199.9773	3
5793	2.164	-0.012	0.024	-0.031	-0.056	11111	1.02	38896.8400	3
5793	2.191	0.003	0.010	-0.044	-0.055	11111	1.01	39199.9862	3
5793	2.165	0.003	0.024	-0.013	-0.088	11111	1.01	39241.8669	3
5838	7.509	1.676	0.694	0.596	0.404	11111	1.82	38898.7392	3
5838	7.463	1.667	0.663	0.614	0.348	11111	1.62	39206.9535	3
5842	4.623	0.078	0.077	0.013	-0.042	11111	1.08	38898.7495	3
5842	4.573	0.053	0.090	0.004	-0.049	11111	1.03	39201.9511	1
5849	3.834	0.018	0.038	-0.024	-0.055	11111	1.04	38898.7600	3
5849	3.826	0.030	0.017	-0.084	-0.052	11111	1.01	39201.9601	1
5854	4.533	1.166	0.422			11100	1.39	38791.9934	1
5854	4.567	1.166	0.436			11100	2.29	38839.7922	3
5854	4.606	1.183	0.407			11100	1.11	38839.9680	3
5854	4.566	1.164	0.448	0.355	0.131	11111	2.14	38874.7033	3
5854	4.561	1.158	0.457	0.370	0.126	11111	1.11	38875.8780	1
5854	4.565	1.172	0.439	0.348	0.139	11111	1.11	38887.8317	3
5854	4.565	1.170	0.435	0.359	0.122	11111	1.12	38889.8489	3
5854	4.545	1.151	0.456	0.356	0.128	11111	1.14	38890.8679	3
5854	4.555	1.157	0.454	0.342	0.131	11111	2.12	38898.9753	3
5854	4.572	1.154	0.448	0.357	0.127	11111	1.13	38916.7912	3
5854	4.579	1.161	0.462	0.345	0.151	11111	2.31	38916.9345	3
5854	4.547	1.169	0.457	0.351	0.133	11111	1.12	38917.7334	3
5854	4.585	1.147	0.454	0.352	0.136	11111	2.25	38917.9293	3
5854	4.578	1.166	0.446	0.349	0.132	11111	1.11	38918.7422	3
5854	4.554	1.162	0.452	0.354	0.133	11111	1.29	38919.6630	1
5854	4.518	1.150	0.433	0.354	0.140	11111	1.24	38921.6687	3
5854	4.550	1.165	0.458	0.352	0.129	11111	1.11	38921.7426	3
5854	4.519	1.148	0.450	0.362	0.138	11111	1.23	38922.6672	1
5854	4.556	1.155	0.465	0.366	0.134	11111	1.23	38923.6666	1
5854	4.558	1.164	0.448	0.335	0.131	11111	1.11	38923.7295	1
5854	4.569	1.164	0.453	0.340	0.142	11111	1.23	38924.6639	3
5854	4.583	1.169	0.444	0.364	0.133	11111	1.11	38924.7247	3
5854	4.543	1.160	0.465	0.352	0.143	11111	2.49	38924.9195	3
5854	4.506	1.157	0.457	0.353	0.151	11111	1.31	38925.6403	3
5854	4.562	1.152	0.447	0.372	0.136	11111	1.11	38925.7235	3
5854	4.623	1.165	0.443	0.351	0.131	11111	2.21	38925.9059	3
5854	4.540	1.168	0.480	0.373	0.106	11111	1.29	38926.6418	3
5854	4.604	1.184	0.467	0.355	0.129	11111	1.11	38926.7284	3
5854	4.595	1.178	0.439	0.330	0.155	11111	2.42	38926.9114	3
5854	4.585	1.174	0.457	0.332	0.132	11111	1.20	38928.6598	3
5854	4.565	1.164	0.476	0.352	0.167	11111	2.54	38928.9101	3
5854	4.543	1.159	0.459	0.365	0.133	11111	1.25	38929.6431	3
5854	4.551	1.164	0.471	0.364	0.133	11111	2.61	38929.9095	3
5854	4.585	1.154	0.457	0.352	0.129	11111	1.32	39139.0552	3
5854	4.545	1.139	0.479	0.354	0.153	11111	2.08	39139.9797	3
5854	4.576	1.155	0.474	0.366	0.174	11111	2.34	39140.9655	3
5854	4.565	1.142	0.479	0.357	0.136	11111	2.09	39147.9575	3
5854	4.538	1.158	0.455	0.331	0.154	11111	2.21	39148.9489	3
5854	4.563	1.166	0.444	0.341	0.123	11111	1.20	39149.0585	3
5854	4.555	1.148	0.474	0.360	0.128	11111	1.18	39151.0586	3
5854	4.617	1.157	0.448	0.327	0.151	11111	2.10	39151.9462	3
5854	4.554	1.146	0.470	0.353	0.136	11111	2.20	39154.9331	3
5854	4.544	1.154	0.458	0.356	0.143	11111	1.15	39155.0606	3
5854	4.571	1.154	0.453	0.350	0.125	11111	1.11	39173.0485	3
5854	4.562	1.156	0.465	0.360	0.139	11111	2.15	39173.8833	3
5854	4.592	1.184	0.439	0.347	0.117	11111	2.28	39174.8750	3
5854	4.577	1.164	0.457	0.356	0.143	11111	2.16	39175.8775	3
5854	4.545	1.147	0.465	0.370	0.122	11111	1.11	39176.0415	3
5854	4.609	1.205	0.428	0.317	0.135	11111	1.12	39185.0417	1
5854	4.582	1.161	0.459	0.346	0.129	11111	1.18	39201.9208	1
5854	4.547	1.154	0.458	0.358	0.139	11111	1.11	39202.9613	3
5854	4.533	1.159	0.444	0.336	0.140	11111	1.12	39206.9409	3
5854	4.522	1.154	0.461	0.352	0.148	11111	1.16	39228.8570	1
5854	4.582	1.162	0.455	0.363	0.121	11111	2.27	39229.7252	3
5854	4.566	1.143	0.457	0.346	0.146	11111	1.13	39229.9293	3

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
5854	4.502	1.188	0.446	0.309	0.166	11111	1.12	39231.8697	1
5854	4.532	1.162	0.453	0.359	0.118	11111	1.13	39241.8364	3
5854	4.567	1.140	0.470	0.389	0.109	11111	1.12	39246.8747	1
5854	4.565	1.154	0.463	0.354	0.141	11111	1.23	39246.9268	1
5854	4.557	1.162	0.455	0.356	0.143	11111	1.16	39270.7385	3
5854	4.568	1.157	0.449	0.347	0.134	11111	2.21	39270.9610	3
5854	4.554	1.169	0.453	0.356	0.143	11111	1.18	39272.7268	3
5854	4.567	1.160	0.458	0.347	0.134	11111	2.18	39272.9545	3
5854	4.598	1.185	0.437	0.340	0.132	11111	1.12	39274.7573	3
5854	4.594	1.173	0.447	0.336	0.161	11111	1.21	39279.6975	3
5854	4.562	1.184	0.449	0.336	0.131	11111	2.24	39279.9377	3
5854	4.594	1.184	0.431	0.340	0.138	11111	1.12	39280.7434	3
5854	4.577	1.162	0.461	0.364	0.149	11111	1.11	39281.7569	3
5854	4.561	1.157	0.444	0.337	0.130	11111	2.26	39281.9331	3
5854	4.546	1.160	0.461	0.356	0.146	11111	1.16	39295.6732	1
5854	4.551	1.166	0.454	0.354	0.144	11111	1.19	39296.6585	3
5854	4.560	1.162	0.452	0.356	0.166	11111	1.14	39297.6759	3
5854	4.574	1.176	0.452	0.355	0.128	11111	1.14	39298.6777	1
5854	4.558	1.162	0.460	0.346	0.157	11111	1.19	39300.6478	3
5854	4.564	1.167	0.453	0.351	0.124	11111	2.21	39300.8792	3
5854	4.562	1.169	0.459	0.352	0.143	11111	1.12	39307.6672	1
5854	4.559	1.169	0.445	0.332	0.148	11111	1.12	39313.6576	1
5854	4.576	1.160	0.456	0.368	0.129	11111	1.30	39313.7607	1
5859	5.631	0.040	0.076	0.034	-0.026	11111	1.15	38898.7712	3
5859	5.545	0.015	0.039	-0.002	-0.009	11111	1.12	39206.9635	3
5867	3.794	0.094	0.061	0.074	-0.036	11111	1.06	38898.7818	3
5867	3.774	0.078	0.046	0.045	-0.010	11111	1.05	39201.9705	1
5867	3.746	0.081	0.051	0.070	-0.048	11111	1.05	39241.8571	3
5868	5.287	0.428	-0.106	-0.371	0.043	11111	1.11	38898.7927	3
5868	5.210	0.439	-0.139	-0.424	0.053	11111	1.10	39206.9729	3
5868	5.190	0.390	-0.115	-0.373	0.045	11111	1.10	39251.8478	1
5868	5.229	0.419	-0.096	-0.385	0.053	11111	1.11	39252.8517	1
5879	6.935	1.734	0.664	0.599	0.445	11111	1.04	38898.8342	3
5879	6.895	1.689	0.666	0.602	0.430	11111	1.03	39197.9977	3
5879	6.889	1.715	0.634	0.587	0.426	11111	1.04	39241.8475	3
5879	6.888	1.712	0.674	0.593	0.449	11111	1.04	39296.6970	3
5881	3.495	-0.029	-0.024	-0.131	-0.075	11111	1.26	38898.8446	3
5881	3.499	-0.018	-0.056	-0.133	-0.072	11111	1.24	39227.8910	3
5889	5.787	0.606	-0.038	-0.263	0.114	11111	1.01	38915.7449	3
5889	5.763	0.615	-0.042	-0.267	0.132	11111	1.01	39201.9801	1
5892	3.943	0.181	0.073	-0.067	-0.001	11111	1.13	38915.7568	3
5892	3.949	0.173	0.042	-0.064	-0.008	11111	1.13	39227.9161	3
5899	7.477	1.689	0.668	0.559	0.366	11111	1.02	38915.7681	3
5899	7.372	1.607	0.698	0.591	0.354	11111	1.03	39228.8787	1
5901	6.321	0.904	0.241			11100	1.00	38870.8842	1
5901	6.328	0.917	0.261	0.072	0.160	11111	1.00	39228.8934	1
5902	4.979	-0.047	-0.374	-0.803	-0.116	11111	1.65	38915.7830	3
5902	4.938	-0.049	-0.360	-0.775	-0.147	11111	1.72	39229.8641	3
5903	4.323	0.027	0.046	0.128	0.011	11111	1.49	38916.6649	3
5903	4.236	0.011	0.013	0.105	0.007	11111	1.43	39228.9044	1
5903	4.317	0.004	0.037	0.119	-0.007	11111	1.43	39257.7937	3
5908	5.714	0.888	0.230	0.047	0.186	11111	1.82	38916.6814	3
5908	5.673	0.868	0.211	0.043	0.165	11111	1.56	39229.8750	3
5914	5.365	0.368	-0.206	-0.461	0.042	11111	1.08	38916.6923	3
5914	5.320	0.355	-0.177	-0.484	0.054	11111	1.02	39228.9160	1
5915	5.899	-0.040	-0.323	-0.713	-0.095	11111	1.76	38916.7059	3
5915	5.879	-0.041	-0.349	-0.746	-0.119	11111	1.63	39229.8870	3
5933	4.474	0.327	-0.203	-0.441	0.017	11111	1.07	38916.7274	3
5933	4.478	0.301	-0.173	-0.421	0.038	11111	1.04	39229.9081	3
5941	4.728	-0.160	-0.259	0.196	-0.062	11111	1.48	38916.7409	3
5941	4.817	-0.119	-0.341	-0.194	-0.157	11111	1.47	39231.8855	1
5947	6.181	1.183	0.421			11100	1.00	38839.9767	3
5947	6.178	1.197	0.440	0.295	0.221	11111	1.01	38877.8658	3
5947	6.161	1.196	0.428	0.295	0.212	11111	1.05	38894.8825	3
5947	6.180	1.193	0.445	0.313	0.225	11111	1.01	38898.8244	3
5947	6.142	1.195	0.434	0.291	0.220	11111	1.05	38915.7178	3
5947	6.152	1.175	0.448	0.318	0.231	11111	1.01	38928.7250	3
5947	6.170	1.206	0.457	0.291	0.226	11111	1.01	38929.7097	3
5947	6.141	1.165	0.452	0.273	0.233	11111	2.61	39016.7144	3
5947	6.144	1.204	0.437	0.284	0.249	11111	2.66	39018.7104	3
5947	6.146	1.191	0.451	0.310	0.213	11111	2.63	39025.6904	3
5947	6.146	1.197	0.446	0.289	0.239	11111	2.41	39026.6803	3
5947	6.118	1.168	0.439	0.281	0.221	11111	2.62	39028.6820	3
5947	6.178	1.197	0.448	0.292	0.240	11111	1.94	39176.8635	3
5947	6.176	1.200	0.444	0.298	0.239	11111	1.02	39177.0216	3
5947	6.157	1.199	0.435	0.288	0.240	11111	1.12	39184.9487	1
5947	6.170	1.198	0.444	0.319	0.229	11111	1.98	39197.8042	3
5947	6.125	1.181	0.428	0.264	0.246	11111	1.01	39198.0066	3
5947	6.143	1.191	0.448	0.296	0.257	11111	2.31	39199.7825	3
5947	6.150	1.206	0.425	0.288	0.255	11111	1.00	39199.9956	3
5947	6.168	1.213	0.441	0.287	0.237	11111	1.01	39202.0084	1
5947	6.169	1.186	0.459	0.306	0.229	11111	2.26	39206.7657	3
5947	6.145	1.195	0.452	0.297	0.220	11111	1.07	39229.8441	3
5947	6.159	1.185	0.436	0.305	0.216	11111	1.01	39231.9216	1
5947	6.201	1.207	0.440	0.286	0.231	11111	1.04	39238.8387	1
5947	6.164	1.203	0.421	0.293	0.181	11111	1.23	39252.9608	1
5947	6.152	1.169	0.437	0.286	0.239	11111	1.02	39258.8612	3
5947	6.163	1.192	0.443	0.286	0.241	11111	1.00	39270.7971	3
5947	6.138	1.167	0.449	0.297	0.248	11111	1.01	39272.8038	3
5947	6.140	1.189	0.434	0.281	0.233	11111	1.01	39279.7895	3
5947	6.134	1.183	0.440	0.290	0.262	11111	1.02	39298.7495	1
5947	6.139	1.179	0.433	0.271	0.237	11111	1.01	39307.7225	1
5947	6.183	1.206	0.411	0.261	0.247	11111	1.01	39318.6889	1
5958	10.357	1.570	0.657	0.520	0.313	11111	1.01	38916.7805	3
5958	10.289	1.561	0.570	0.510	0.063	11111	1.02	39197.9707	3
5958	12.598	1.167	0.437	0.165	0.459	11111	1.01	39240.8718	3
5958	12.233	1.094	0.037	-0.183	0.385	11111	1.01	39296.7201	3
5960	5.307	0.210	-0.046	-0.154	-0.004	11111	1.08	38916.7538	3
5960	5.390	0.193	-0.034	-0.150	-0.001	11111	1.08	39231.9000	1
5971	4.849	-0.047	-0.142			11100	1.00	38870.8970	1
5971	4.902	-0.058	-0.098	-0.223	-0.096	11111	1.00	39231.9109	1
5972	4.958	0.090	0.067			11100	1.02	38869.9079	1
5972	4.897	0.080	0.097	0.002	-0.035	11111	1.02	38923.7403	1
5977	4.737	0.315	-0.170			11100	1.38	38871.8864	1
5977	4.751	0.310	-0.150	-0.318	0.011	11111	1.39	38923.7723	1
5982	4.575	-0.112	-0.198	-0.360	-0.090	11111	1.03	38874.9008	3
5982	4.531	-0.094	-0.220	-0.399	-0.073	11111	1.03	38923.7601	1
5984	2.379	-0.128	-0.578	-1.081	-0.160	11111	1.63	38875.8913	1
5984	2.366	-0.144	-0.563	-1.078	-0.154	11111	1.63	38924.7363	3
5986	4.746	0.373	-0.134	-0.343	0.046	11111	1.12	38875.9087	1
5986	4.710	0.365	-0.124	-0.307	0.041	11111	1.11	38923.7502	1
5993	3.834	-0.125	-0.547	-1.061	-0.142	11111	1.66	38887.8454	3
5993	3.865	-0.108	-0.557	-1.087	-0.137	11111	1.66	38924.7471	3
5997	5.542	0.666	0.022	-0.127	0.175	11111	1.67	38887.8569	3
5997	5.542	0.665	0.039	-0.092	0.150	11111	1.67	38924.7571	3
6018	6.282	0.915	0.226			11100	1.00	38870.9095	1
6018	6.316	0.914	0.268	0.084	0.122	11111	1.01	38924.7678	3
6023	4.144	-0.051	-0.163	-0.314	-0.072	11111	1.38	38877.7311	3
6023	4.145	-0.057	-0.142	-0.322	-0.081	11111	1.02	38925.7475	3
6027	3.980	-0.060	-0.466	-0.903	-0.106	11111	1.63	38887.8736	3
6027	4.001	-0.053	-0.452	-0.929	-0.116	11111	1.62	38925.7586	3
6031	5.033	0.085	0.094	0.033	-0.019	11111	1.36	38888.8437	3
6031	5.057	0.095	0.102	0.030	-0.044	11111	1.36	38925.7688	3
6056	5.493	1.695	0.661	0.579	0.432	11111	1.24	38888.8554	3
6056	5.482	1.673	0.689	0.632	0.420	11111	1.25	38925.7794	3
6075	4.692	0.827	0.162	-0.004	0.158	11111	1.25	38888.8668	3
6075	4.733	0.830	0.162	0.016	0.145	11111	1.26	38926.7392	3
6092	3.655	-0.149	-0.323			11100	1.03	38839.9855	3
6092	3.687	-0.127	-0.351			11100	1.04	38865.8980	1
6092	3.676	-0.132	-0.341	-0.710	-0.132	11111	1.16	38873.0002	3
6092	3.666	-0.123	-0.340	-0.698	-0.140	11111	1.04	38898.8572	3
6092	3.689	-0.117	-0.352	-0.694	-0.134	11111	1.07	38915.7316	3
6092	3.677	-0.151	-0.356	-0.699	-0.144	11111	2.03	38921.9903	3
6092	3.633	-0.141	-0.344	-0.696	-0.140	11111	1.03	38928.7358	3
6092	3.700	-0.124	-0.345	-0.701	-0.131	11111	1.04	38929.7202	3
6092	3.664	-0.132	-0.349	-0.698	-0.142	11111	2.42	39016.7529	3
6092	3.658	-0.151	-0.350	-0.696	-0.149	11111	2.19	39018.7357	3
6092	3.681	-0.117	-0.357	-0.704	-0.116	11111	2.57	39025.7352	3
6092	3.691	-0.128	-0.342	-0.710	-0.150	11111	2.18	39026.7129	3
6092	3.686	-0.137	-0.367	-0.718	-0.102	11111	2.14	39028.7053	3
6092	3.693	-0.122	-0.362	-0.699	-0.121	11111	1.95	39176.8546	3
6092	3.692	-0.120	-0.352	-0.710	-0.129	11111	1.05	39177.0309	3
6092	3.655	-0.145	-0.358	-0.702	-0.137	11111	1.14	39184.9583	1
6092	3.697	-0.118	-0.363	-0.713	-0.108	11111	1.98	39197.7956	3
6092	3.689	-0.147	-0.368	-0.716	-0.128	11111	1.03	39198.0147	3
6092	3.686	-0.130	-0.359	-0.704	-0.157	11111	1.94	39199.7927	3
6092	3.657	-0.131	-0.365	-0.730	-0.127	11111	1.03	39200.0158	3
6092	3.679	-0.139	-0.361	-0.708	-0.135	11111	1.04	39202.0268	1
6092	3.686	-0.123	-0.354	-0.689	-0.148	11111	2.20	39206.7564	3
6092	3.708	-0.111	-0.355	-0.706	-0.127	11111	1.10	39229.8532	3
6092	3.743	-0.129	-0.371	-0.708	-0.148	11111	1.05	39231.9635	1
6092	3.690	-0.140	-0.345	-0.681	-0.144	11111	1.07	39238.8475	1
6092	3.643	-0.141	-0.339	-0.704	-0.152	11111	1.03	39279.7984	3
6092	3.657	-0.124	-0.348	-0.709	-0.148	11111	1.04	39298.7588	1
6092	3.680	-0.139	-0.347	-0.705	-0.125	11111	1.03	39300.7342	3
6092	3.665	-0.127	-0.365	-0.718	-0.137	11111	2.16	39300.9610	3
6092	3.639	-0.123	-0.359	-0.733	-0.126	11111	1.03	39313.6800	1
6092	3.661	-0.127	-0.341	-0.686	-0.142	11111	1.04	39318.7023	1
6093	5.267	0.236	-0.114			11100	1.17	38865.9084	1
6093	5.287	0.227	-0.057	-0.208	-0.028	11111	1.17	38926.7506	3
6095	4.110	0.203	0.033	0.079	0.024	11111	1.03	38889.8632	3
6095	4.144	0.212	0.076	0.078	0.008	11111	1.03	38926.7606	3
6103	6.371	0.871	0.191			11100	1.01	38865.9009	1
6103	6.341	0.865	0.241	0.101	0.117	11111	1.00	38928.7469	3
6104	6.067	0.896	0.220	0.052	0.124	11111	1.65	38889.8755	3
6104	6.045	0.894	0.234	0.047	0.131	11111	1.63	38928.7568	3

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
6117	4.570	0.005	0.026	-0.046	-0.020	11111	1.06	38889.8857	3
6117	4.600	0.021	0.014	-0.028	-0.046	11111	1.06	38928.7687	3
6118	4.755	-0.011	-0.559	-1.143	-0.056	11111	1.59	38890.8457	3
6118	4.728	-0.004	-0.549	-1.149	-0.028	11111	1.59	38929.7323	3
6129	4.863	0.151	0.047	-0.075	-0.023	11111	1.32	38890.8569	3
6129	4.888	0.168	0.040	-0.100	0.001	11111	1.32	38929.7419	3
6132	4.108	0.775	0.125	-0.044	0.166	11111	1.41	38877.7441	3
6132	4.111	0.760	0.135	-0.015	0.166	11111	1.15	38929.7537	3
6132	4.112	0.761	0.131	-0.034	0.168	11111	1.15	39257.8739	3
6146	6.938	0.346	0.600			11100	1.01	38865.9266	1
6146	6.865	0.410	0.644	1.097	0.984	11111	1.02	38929.7653	3
6146	6.705	0.496	0.602	1.009	0.935	11111	1.02	39241.8775	3
6146	6.750	0.539	0.636	0.979	0.969	11111	1.05	39295.6988	1
6146	6.701	0.485	0.631	0.996	0.933	11111	1.03	39297.7128	3
6146	6.699	0.494	0.609	0.969	1.011	11111	1.03	39300.7074	3
6147	5.649	0.790	0.139	0.023	0.119	11111	1.52	38894.8416	3
6147	5.679	0.805	0.161	0.027	0.101	11111	1.52	39200.0054	3
6148	4.214	0.800	0.110	-0.030	0.122	11111	1.42	38877.7579	3
6148	4.188	0.779	0.139	-0.012	0.115	11111	1.02	39201.9900	1
6149	3.829	0.043	0.041	-0.030	-0.046	11111	1.16	38894.8538	3
6149	3.856	0.042	0.053	-0.035	-0.039	11111	1.16	39227.9372	3
6159	7.400	1.588	0.657	0.535	0.389	11111	1.07	38872.9091	3
6159	7.425	1.582	0.704	0.575	0.384	11111	1.07	39227.9485	3
6159	7.430	1.593	0.650	0.554	0.376	11111	1.07	39241.9027	3
6161	4.861	-0.046	-0.065	-0.077	-0.053	11111	1.25	38894.8669	3
6161	4.877	-0.025	-0.079	-0.069	-0.074	11111	1.24	39201.9994	1
6161	4.859	-0.055	-0.074	-0.054	-0.070	11111	1.24	39241.9135	3
6168	4.179	-0.022	-0.075	-0.031	-0.058	11111	1.04	38917.7452	3
6168	4.164	-0.040	-0.079	-0.063	-0.032	11111	1.02	39202.0179	1
6175	2.536	-0.092	-0.595	-1.155	-0.127	11111	1.40	38917.7567	3
6175	2.505	-0.109	-0.604	-1.127	-0.117	11111	1.37	39227.9586	3
6212	3.686	0.524	-0.149			11100	1.00	38870.9227	1
6212	3.690	0.475	-0.065	-0.313	0.061	11111	1.00	39228.9267	1
6212	3.692	0.501	-0.091	-0.375	0.047	11111	1.00	39251.8861	1
6212	3.707	0.491	-0.075	-0.321	0.035	11111	1.03	39252.9257	1
6220	4.852	0.754	0.093	-0.089	0.126	11111	1.01	38872.9225	3
6220	4.882	0.747	0.121	-0.072	0.113	11111	1.01	39231.9431	1
6237	5.352	0.232	-0.166	-0.324	0.012	11111	1.11	38917.7698	3
6237	5.440	0.228	-0.132	-0.340	0.010	11111	1.10	39231.9531	1
6243	5.293	0.338	-0.147	-0.315	0.048	11111	1.38	38917.7800	3
6243	5.357	0.346	-0.130	-0.285	0.037	11111	1.42	39238.8823	1
6254	4.955	0.099	0.054	-0.050	-0.034	11111	1.03	38917.7907	3
6254	4.985	0.127	0.054	-0.077	-0.009	11111	1.04	39238.8930	1
6281	4.236	-0.091	-0.177	-0.387	-0.109	11111	1.10	38918.7681	3
6281	4.199	-0.103	-0.190	-0.387	-0.100	11111	1.10	39240.8874	3
6299	5.110	1.129	0.399	0.284	0.137	11111	1.10	38918.7774	3
6299	5.048	1.089	0.423	0.301	0.140	11111	1.10	39240.8970	3
6299	5.051	1.120	0.419	0.310	0.123	11111	1.11	39241.8876	3
6299	5.077	1.128	0.427	0.308	0.116	11111	1.10	39296.7422	3
6299	5.097	1.132	0.425	0.297	0.127	11111	1.13	39298.7145	1
6299	5.063	1.104	0.415	0.291	0.147	11111	1.12	39300.7194	3
6315	5.586	0.327	-0.197	-0.464	0.019	11111	1.19	38918.7899	3
6315	5.527	0.312	-0.195	-0.484	0.030	11111	1.19	39240.9183	3
6322	5.536	0.721	0.041	-0.118	0.145	11111	1.55	38918.7566	3
6322	5.545	0.719	0.027	-0.143	0.129	11111	1.55	39240.9413	3
6324	3.920	0.001	-0.022	-0.148	-0.091	11111	1.00	38918.8034	3
6324	3.852	-0.015	-0.040	-0.175	-0.070	11111	1.01	39240.9516	3
6337	7.730	1.608	0.632	0.634	0.467	11111	1.05	38874.9345	3
6337	0.000	1.610	0.676	0.644	0.482	01111	1.06	38923.7822	1
6337	7.738	1.652	0.671	0.702	0.441	11111	1.06	39227.9807	3
6355	5.079	0.124	0.080	-0.006	-0.022	11111	1.07	38874.9470	3
6355	5.090	0.133	0.081	-0.022	-0.031	11111	1.06	38924.7801	3
6378	2.543	0.038	0.064			11100	1.50	38869.9394	1
6378	2.516	0.050	0.124	0.074	-0.039	11111	1.50	38926.7743	3
6396	2.996	-0.109	-0.313			11100	1.20	38865.9356	1
6396	2.986	-0.102	-0.292	-0.510	-0.088	11111	1.20	39227.9908	3
6406	5.027	0.495	0.424	0.595	0.392	11111	1.06	38874.9606	3
6406	4.923	0.586	0.438	0.588	0.407	11111	1.05	39228.9692	1
6410	3.233	0.068	0.075	0.011	-0.019	11111	1.01	38875.9383	1
6410	3.241	0.071	0.036	0.001	-0.005	11111	1.01	39228.9801	1
6415	6.559	1.085	0.367	0.242	0.139	11111	1.18	38888.9116	3
6415	6.638	1.108	0.390	0.267	0.148	11111	1.43	39014.6497	1
6418	5.618	1.483	0.556			11100	1.01	38865.9439	1
6418	5.618	1.491	0.590	0.482	0.310	11111	1.01	39228.9913	1
6418	5.626	1.496	0.585	0.500	0.279	11111	1.06	39270.7874	3
6431	4.829	-0.194	-0.446			11100	1.01	38869.9252	1
6431	4.723	-0.199	-0.483	-0.962	-0.175	11111	1.01	39231.9803	1
6431	4.747	-0.144	-0.433	-0.860	-0.145	11111	1.01	39296.7544	3
6431	5.089	-0.143	-0.424	-0.826	-0.143	11111	1.04	39298.7254	1
6436	4.589	0.046	0.025			11100	1.00	38870.9488	1
6436	4.647	0.037	0.049	-0.004	-0.066	11111	1.01	39241.9484	3
6446	4.347	0.024	0.073	0.060	-0.059	11111	1.43	38890.8811	3
6446	4.552	0.142	0.028	0.071	-0.106	11111	1.87	39014.6610	1
6446	4.372	0.024	0.062	0.046	-0.067	11111	1.44	39241.9587	3
6484	4.114	-0.027	-0.013	0.009	-0.036	11111	1.34	38877.7921	3
6484	4.113	-0.026	-0.034	-0.002	-0.026	11111	1.00	39258.8911	3
6493	4.998	0.225	-0.131	-0.312	0.014	11111	1.26	38890.8932	3
6493	5.025	0.233	-0.136	-0.330	0.029	11111	1.27	39258.9117	3
6498	6.873	1.479	0.506	0.452	0.252	11111	1.15	38890.9251	3
6498	6.894	1.492	0.521	0.475	0.257	11111	1.15	39258.9212	3
6526	6.864	1.486	0.608	0.499	0.295	11111	1.01	38872.9572	3
6526	6.899	1.517	0.595	0.466	0.292	11111	1.20	39268.7628	3
6536	4.261	0.793	0.015	-0.066	0.155	11111	1.29	38877.8068	3
6536	4.238	0.767	0.039	-0.067	0.173	11111	1.18	39268.7732	3
6554	5.251	0.177	-0.024	-0.145	-0.021	11111	1.23	38877.8298	3
6554	5.240	0.196	-0.034	-0.168	0.004	11111	1.17	39268.7843	3
6555	5.284	0.235	-0.027	-0.147	-0.015	11111	1.19	38877.8448	3
6555	5.299	0.242	-0.035	-0.171	0.001	11111	1.15	39268.7945	3
6556	2.304	0.132	0.063	0.034	-0.019	11111	1.06	38894.8958	3
6556	2.315	0.154	0.039	-0.009	0.023	11111	1.15	39268.8051	3
6561	3.888	0.214	-0.018	-0.066	0.005	11111	1.49	38894.9076	3
6561	3.926	0.228	-0.007	-0.055	0.022	11111	1.49	39268.8694	3
6567	4.719	0.011	-0.225	-0.273	-0.069	11111	1.33	38894.9209	3
6567	4.741	0.006	-0.211	-0.280	-0.051	11111	1.32	39269.8583	3
6581	4.351	0.075	0.089	0.038	-0.012	11111	1.42	38898.8923	3
6581	4.354	0.074	0.093	0.100	-0.061	11111	1.42	39269.8684	3
6588	3.555	-0.165	-0.430	-0.839	-0.171	11111	1.03	38898.8801	3
6588	3.515	-0.169	-0.452	-0.847	-0.146	11111	1.18	39269.7669	3
6596	5.378	0.292	-0.162	-0.394	0.001	11111	1.24	38898.8696	3
6596	5.371	0.286	-0.149	-0.389	0.018	11111	1.24	39257.9181	3
6603	4.690	1.136	0.447			11100	2.28	38839.8785	3
6603	4.705	1.152	0.435	0.349	0.128	11111	1.18	38875.0042	3
6603	4.686	1.155	0.449	0.355	0.133	11111	1.13	38875.9615	1
6603	4.699	1.158	0.453	0.352	0.121	11111	2.33	38877.7728	3
6603	4.694	1.151	0.444	0.351	0.128	11111	1.17	38877.9892	3
6603	4.675	1.147	0.445	0.351	0.134	11111	1.24	38887.9893	3
6603	4.670	1.147	0.447	0.356	0.115	11111	1.18	38888.9638	3
6603	4.711	1.152	0.441	0.347	0.121	11111	1.22	38889.9780	3
6603	4.686	1.143	0.456	0.352	0.156	11111	1.28	38890.9902	3
6603	4.669	1.142	0.476	0.363	0.121	11111	2.09	38894.7373	3
6603	4.688	1.150	0.454	0.344	0.131	11111	1.15	38894.9322	3
6603	4.677	1.142	0.469	0.370	0.106	11111	2.41	38896.7181	3
6603	4.663	1.142	0.433	0.354	0.121	11111	1.17	38896.8522	3
6603	4.666	1.130	0.458	0.367	0.112	11111	1.16	38896.9322	3
6603	4.695	1.161	0.465	0.365	0.141	11111	2.41	38898.7127	3
6603	4.702	1.155	0.451	0.350	0.142	11111	1.14	38898.9052	3
6603	4.697	1.163	0.454	0.367	0.132	11111	1.13	38921.8165	3
6603	4.707	1.165	0.438	0.348	0.114	11111	1.14	38922.8471	1
6603	4.671	1.171	0.432	0.331	0.132	11111	1.18	39014.6185	1
6603	4.671	1.158	0.442	0.339	0.130	11111	1.25	39016.6404	3
6603	4.651	1.157	0.451	0.368	0.137	11111	1.21	39018.6196	3
6603	4.650	1.151	0.483	0.371	0.140	11111	1.64	39019.6916	3
6603	4.672	1.169	0.438	0.331	0.126	11111	2.15	39024.7118	3
6603	4.414	0.704	0.429	0.258	0.151	11111	4.35	39024.7589	3
6603	4.662	1.156	0.441	0.347	0.129	11111	1.20	39025.5993	3
6603	4.673	1.156	0.446	0.370	0.121	11111	1.21	39026.6007	3
6603	4.675	1.149	0.456	0.357	0.132	11111	1.23	39027.6022	3
6603	4.583	1.145	0.448	0.336	0.110	11111	1.20	39028.5919	3
6603	4.622	1.129	0.458	0.340	0.148	11111	1.26	39029.6074	3
6603	4.590	1.132	0.437	0.307	0.138	11111	2.12	39029.6968	3
6603	4.660	1.136	0.456	0.351	0.135	11111	2.61	39045.6718	3
6603	4.665	1.157	0.444	0.356	0.115	11111	1.40	39046.5882	1
6603	4.668	1.143	0.461	0.355	0.144	11111	2.63	39051.6562	3
6603	4.662	1.138	0.470	0.348	0.130	11111	1.53	39052.5899	3
6603	4.674	1.150	0.459	0.350	0.120	11111	2.58	39052.6519	3
6603	4.671	1.153	0.417	0.276	0.187	11111	2.76	39059.6379	3
6603	4.685	1.160	0.465	0.344	0.136	11111	2.35	39172.9638	3
6603	4.658	1.156	0.455	0.346	0.139	11111	2.08	39227.8259	3
6603	4.668	1.142	0.472	0.356	0.136	11111	1.13	39228.0008	3
6603	4.689	1.146	0.449	0.347	0.130	11111	1.14	39229.0005	1
6603	4.689	1.135	0.473	0.359	0.122	11111	1.15	39232.0050	1
6603	4.687	1.156	0.478	0.368	0.128	11111	2.38	39240.7772	3
6603	4.648	1.137	0.449	0.327	0.120	11111	1.17	39240.9968	3
6603	4.715	1.146	0.459	0.350	0.135	11111	1.18	39241.9993	3
6603	4.693	1.153	0.467	0.359	0.148	11111	2.29	39243.7726	3
6603	4.674	1.172	0.495	0.379	0.126	11111	1.57	39251.7978	1
6603	4.660	1.147	0.483	0.343	0.261	11111	1.19	39251.8730	1
6603	4.654	1.136	0.495	0.340	0.078	11111	1.16	39251.9601	1

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
6603	4.658	1.142	0.459	0.359	0.128	11111	2.34	39257.7324	3
6603	4.686	1.153	0.461	0.348	0.140	11111	1.25	39257.9792	3
6603	4.655	1.139	0.457	0.369	0.113	11111	2.36	39258.7286	3
6603	4.707	1.158	0.463	0.340	0.132	11111	1.28	39258.9841	3
6603	4.681	1.153	0.480	0.362	0.104	11111	2.04	39268.7159	3
6603	4.689	1.146	0.434	0.333	0.145	11111	1.26	39268.9501	3
6603	4.692	1.171	0.441	0.322	0.155	11111	2.16	39269.7071	3
6603	4.682	1.150	0.459	0.359	0.120	11111	1.15	39269.9002	3
6603	4.665	1.152	0.458	0.348	0.130	11111	2.01	39274.7015	3
6603	4.697	1.170	0.446	0.343	0.121	11111	1.13	39278.8416	1
6603	4.699	1.152	0.445	0.349	0.135	11111	1.19	39298.8476	1
6603	4.653	1.140	0.441	0.324	0.113	11111	1.13	39306.7611	1
6603	4.655	1.150	0.467	0.346	0.145	11111	1.20	39313.6968	1
6603	4.662	1.145	0.473	0.364	0.126	11111	1.20	39318.7967	1
6603	4.676	1.143	0.472	0.372	0.122	11111	1.13	39372.6010	3
6603	4.668	1.153	0.460	0.362	0.117	11111	2.16	39372.7595	3
6603	4.755	1.168	0.480	0.393	0.157	11111	1.14	39373.6050	1
6603	4.691	1.145	0.454	0.346	0.141	11111	1.14	39376.5968	3
6603	4.664	1.146	0.474	0.366	0.112	11111	2.10	39376.7454	3
6603	4.674	1.162	0.444	0.351	0.123	11111	1.14	39377.5975	1
6603	4.655	1.159	0.438	0.334	0.129	11111	1.31	39407.5827	1
6603	4.718	1.154	0.453	0.372	0.154	11111	1.32	39408.5827	3
6603	4.646	1.137	0.465	0.375	0.125	11111	1.30	39410.5725	3
6623	4.507	0.593	0.044	-0.195	0.038	11111	1.23	38919.7216	1
6623	4.503	0.601	0.021	-0.205	0.041	11111	1.16	39269.7791	3
6629	3.802	0.059	0.063			11100	2.23	38839.8874	3
6629	3.810	0.062	0.084	-0.006	-0.067	11111	1.17	38877.9774	3
6629	3.770	0.062	0.073	-0.020	-0.035	11111	1.29	38887.9977	3
6629	3.782	0.046	0.090	-0.008	-0.047	11111	1.26	38888.9864	3
6629	3.810	0.054	0.069	-0.024	-0.040	11111	1.27	38889.9888	3
6629	3.787	0.069	0.069	-0.014	-0.053	11111	1.15	38890.9144	3
6629	3.797	0.074	0.036	-0.028	-0.032	11111	1.98	38894.7502	3
6629	3.780	0.047	0.064	-0.019	-0.078	11111	1.19	38894.9424	3
6629	0.000	0.070	0.041	-0.041	-0.015	01111	2.10	38896.7378	3
6629	3.795	0.065	0.080	-0.027	-0.049	11111	1.15	38896.8848	3
6629	3.800	0.058	0.063	-0.002	-0.040	11111	2.28	38898.7240	3
6629	3.824	0.061	0.067	-0.021	-0.044	11111	1.15	38921.8270	3
6629	3.821	0.064	0.058	-0.026	-0.038	11111	1.17	38922.8561	1
6629	3.784	0.038	0.083	0.003	-0.049	11111	1.22	39014.6306	1
6629	3.782	0.059	0.063	-0.026	-0.032	11111	1.30	39016.6494	3
6629	3.790	0.079	0.047	-0.015	-0.067	11111	1.26	39018.6316	3
6629	3.741	0.058	0.062	-0.020	-0.049	11111	1.69	39019.6889	3
6629	3.783	0.045	0.072	-0.003	-0.043	11111	2.41	39024.7221	3
6629	4.086	0.326	0.191	0.147	0.133	11111	4.88	39024.7643	3
6629	3.778	0.064	0.059	-0.024	-0.040	11111	1.25	39025.6101	3
6629	3.767	0.063	0.050	-0.028	-0.044	11111	1.26	39026.6115	3
6629	3.780	0.060	0.059	-0.023	-0.049	11111	1.27	39027.6111	3
6629	3.713	0.035	0.044	-0.028	-0.074	11111	1.25	39028.6017	3
6629	3.725	0.048	0.046	-0.019	-0.043	11111	1.32	39029.6175	3
6629	3.735	0.056	0.013	-0.058	-0.036	11111	2.40	39029.7082	3
6629	3.784	0.061	0.066	-0.025	-0.035	11111	2.92	39045.6799	3
6629	3.790	0.068	0.045	-0.016	-0.061	11111	1.47	39046.5972	1
6629	3.747	0.050	0.067	-0.006	-0.047	11111	3.03	39051.6661	3
6629	3.788	0.059	0.068	-0.015	-0.054	11111	1.64	39052.5998	3
6629	3.795	0.069	0.071	-0.019	-0.021	11111	2.91	39052.6606	3
6629	3.783	0.056	0.091	0.043	-0.093	11111	3.15	39059.6468	3
6629	3.804	0.072	0.036	-0.019	-0.049	11111	2.28	39172.9734	3
6629	3.779	0.052	0.071	0.012	-0.075	11111	1.99	39227.8373	3
6629	3.773	0.064	0.073	-0.023	-0.029	11111	1.16	39228.0098	3
6629	3.821	0.067	0.052	-0.023	-0.041	11111	1.16	39229.0094	1
6629	3.804	0.040	0.068	0.010	-0.073	11111	1.17	39232.0134	1
6629	3.795	0.069	0.071	0.007	-0.053	11111	2.29	39240.7874	3
6629	3.779	0.064	0.045	-0.047	-0.061	11111	1.21	39241.0047	3
6629	3.809	0.055	0.066	-0.020	-0.027	11111	1.22	39242.0077	3
6629	3.812	0.045	0.040	0.030	-0.023	11111	1.79	39251.7856	1
6629	3.885	0.142	-0.025	-0.120	-0.065	11111	1.25	39251.8602	1
6629	3.740	-0.007	0.061	0.003	-0.056	11111	1.16	39251.9475	1
6629	3.761	0.050	0.070	-0.007	-0.013	11111	1.21	39252.9156	1
6629	3.781	0.069	0.048	-0.014	-0.056	11111	2.24	39257.7429	3
6629	3.786	0.047	0.072	-0.011	-0.041	11111	1.30	39257.9873	3
6629	3.800	0.070	0.047	-0.022	-0.056	11111	2.29	39258.7380	3
6629	3.814	0.068	0.069	-0.014	-0.051	11111	1.33	39258.9922	3
6629	3.774	0.043	0.065	0.011	-0.068	11111	1.98	39268.7263	3
6629	3.798	0.065	0.061	-0.013	-0.041	11111	1.31	39268.9602	3
6629	3.769	0.054	0.062	-0.003	-0.017	11111	2.10	39269.7169	3
6629	3.794	0.054	0.075	-0.029	-0.035	11111	1.18	39269.9099	3
6629	3.787	0.054	0.059	-0.012	-0.047	11111	1.96	39274.7107	3
6629	3.792	0.049	0.055	-0.033	-0.030	11111	1.15	39278.8510	1
6629	3.801	0.043	0.059	-0.019	-0.040	11111	1.23	39298.8574	1
6629	3.746	0.040	0.061	-0.020	-0.050	11111	1.15	39306.7727	1
6629	3.762	0.049	0.071	-0.006	-0.061	11111	1.19	39313.7164	1
6629	3.780	0.048	0.064	-0.020	-0.046	11111	1.19	39318.7855	1
6629	3.796	0.062	0.059	-0.001	-0.069	11111	1.16	39372.6101	3
6629	3.819	0.061	0.048	-0.041	-0.053	11111	2.40	39372.7687	3
6629	3.870	0.089	0.074	0.030	-0.036	11111	1.16	39373.6162	1
6629	3.771	0.057	0.060	-0.005	-0.026	11111	1.16	39376.6086	3
6629	3.789	0.062	0.045	-0.030	-0.035	11111	2.32	39376.7547	3
6629	3.792	0.074	0.063	-0.005	-0.035	11111	1.17	39377.6082	1
6629	3.772	0.051	0.050	-0.010	-0.046	11111	1.38	39407.5946	1
6629	3.857	0.073	0.045	-0.018	-0.021	11111	1.39	39408.5929	3
6629	3.785	0.072	0.064	-0.014	-0.044	11111	1.36	39410.5824	3
6629	0.000	0.013	0.055	-0.005	-0.063	00111	1.33	39411.5744	1
6636	5.134	0.265	-0.126	-0.323	-0.003	11111	1.53	38919.6767	1
6636	5.168	0.302	-0.166	-0.362	0.013	11111	1.30	39257.9080	3
6685	5.888	0.200	-0.080	0.404	0.228	11111	1.11	38921.7564	3
6685	5.962	0.194	-0.088	0.375	0.244	11111	1.15	39269.7909	3
6688	5.642	1.140	0.443	0.334	0.154	11111	1.39	38919.6892	1
6688	5.660	1.142	0.451	0.312	0.160	11111	1.17	39269.8005	3
6695	6.110	1.325	0.448	0.406	0.188	11111	1.28	38919.7100	1
6695	6.131	1.347	0.437	0.382	0.215	11111	1.03	39270.8332	3
6698	4.879	0.900	0.252	0.138	0.138	11111	1.35	38921.8474	3
6698	4.890	0.915	0.256	0.147	0.117	11111	1.39	39270.8438	3
6703	5.142	0.799	0.143	0.023	0.095	11111	1.00	38872.9693	3
6703	5.145	0.806	0.161	0.001	0.126	11111	1.00	39270.8769	3
6705	4.900	1.640	0.658	0.543	0.357	11111	1.34	38919.6993	1
6705	4.918	1.643	0.673	0.559	0.369	11111	1.06	39270.8868	3
6707	4.911	0.214	0.257	0.042	0.039	11011	1.00	38872.9856	3
6707	4.897	0.248	-0.071	0.011	0.062	11111	1.20	39272.7680	3
6710	5.133	0.255	-0.138	-0.328	0.035	11111	1.25	38921.8593	3
6710	5.142	0.257	-0.135	-0.328	0.036	11111	1.33	39280.7966	3
6712	4.485	-0.106	-0.540	-1.073	-0.128	11111	1.21	38921.7804	3
6712	4.490	-0.090	-0.527	-1.079	-0.115	11111	1.30	39272.7929	3
6713	6.679	1.172	0.375	0.313	0.190	11111	1.13	38921.7675	3
6713	6.682	1.172	0.365	0.276	0.189	11111	1.22	39272.7826	3
6714	3.951	-0.094	-0.488	-0.800	-0.103	11111	1.20	38921.7923	3
6714	3.951	-0.084	-0.484	-0.791	-0.095	11111	1.21	39280.8060	3
6723	4.479	0.015	0.015	0.022	-0.049	11111	1.17	38921.8371	3
6723	4.494	0.022	-0.001	-0.008	-0.050	11111	1.17	39280.8661	3
6752	0.000	0.013	0.128	-0.186	0.055	00111	1.15	38875.9711	1
6752	5.333	0.752	0.100	-0.184	0.026	11111	1.31	38887.8829	3
6752	5.325	0.742	0.112	-0.192	0.041	11111	1.15	38929.8205	3
6752	5.322	0.740	0.094	-0.223	0.027	11111	1.15	39240.9771	3
6770	6.125	0.831	0.168	0.030	0.130	11111	1.17	38877.9006	3
6770	6.120	0.819	0.183	0.045	0.103	11111	1.09	38929.8301	3
6771	3.918	0.124	0.073	-0.011	-0.021	11111	1.13	38877.9157	3
6771	3.926	0.142	0.066	-0.020	-0.023	11111	1.09	38929.8385	3
6779	3.795	-0.033	-0.058	0.039	-0.070	11111	1.00	38877.9508	3
6779	3.729	-0.028	-0.081	0.026	-0.078	11111	1.35	39019.7129	3
6787	4.084	-0.183	-0.526	-0.969	-0.165	11111	1.02	38877.9640	3
6787	4.113	-0.180	-0.528	-0.976	-0.182	11111	1.02	39231.9944	1
6789	4.412	0.040	0.053	0.042	-0.040	11111	1.71	38921.8727	3
6789	4.380	0.018	0.069	0.036	-0.033	11111	1.71	39257.8963	3
6866	6.224	0.763	0.087	-0.077	0.152	11111	1.16	38887.9208	3
6866	6.232	0.776	0.092	-0.090	0.154	11111	1.14	39241.9702	3
6868	7.709	1.717	0.656	0.598	0.402	11111	1.02	38887.9316	3
6868	7.777	1.735	0.667	0.646	0.399	11111	1.02	39241.9805	3
6869	4.644	0.783	0.134			11100	2.31	38704.6064	3
6869	4.643	0.785	0.150			11100	2.95	38865.8274	1
6869	4.678	0.817	0.105			11100	1.30	38865.9524	1
6872	6.253	1.143	0.404	0.295	0.149	11111	1.00	38887.9428	3
6872	6.265	1.154	0.388	0.300	0.150	11111	1.00	39241.9901	3
6884	6.071	0.792	0.163	0.010	0.136	11111	1.34	38888.9276	3
6884	6.114	0.814	0.169	-0.010	0.134	11111	1.34	39257.9489	3
6895	5.717	1.104	0.427	0.259	0.177	11111	1.02	38888.9391	3
6895	5.755	1.119	0.405	0.251	0.183	11111	1.03	39257.9605	3
6896	6.740	1.015	0.252	0.155	0.108	11111	1.66	38888.9515	3
6896	6.808	1.021	0.205	0.130	0.099	11111	1.67	39268.8842	3
6918	5.862	0.304	0.079	-0.014	-0.006	11111	1.19	38889.9325	3
6918	5.871	0.307	0.070	-0.010	-0.013	11111	1.19	39268.8951	3
6918	5.843	0.305	0.085	0.026	-0.020	11111	1.26	39298.7689	1
6918	5.835	0.318	0.082	0.019	-0.015	11111	1.18	39376.6183	3
6920	4.120	-0.052	-0.175	-0.452	-0.082	11111	1.29	38889.9519	3
6920	4.113	-0.051	-0.200	-0.440	-0.083	11111	1.28	39258.9325	3
6923	5.086	0.067	0.081	0.000	-0.043	11111	1.12	38889.9653	3
6923	5.104	0.082	0.047	-0.038	-0.034	11111	1.12	39268.9056	3
6927	4.246	0.324	-0.232	-0.505	0.039	11111	1.31	38890.9373	3
6927	4.221	0.306	-0.199	-0.479	0.029	11111	1.31	39258.9410	3
6930	4.732	0.025	0.054	0.138	0.013	11111	1.47	38890.9472	3
6930	4.758	0.045	0.045	0.135	0.003	11111	1.47	39268.9186	3
6945	6.707	1.107	0.359	0.185	0.268	11111	1.20	38890.9579	3
6945	6.695	1.075	0.385	0.199	0.301	11111	1.20	39258.9587	3
6973	6.092	1.355	0.564	0.440	0.243	11111	1.35	38896.8965	3
6973	6.103	1.362	0.557	0.424	0.245	11111	1.32	39268.9287	3
6978	5.657	0.475	-0.042	0.117	0.155	11111	1.10	38896.9078	3
6978	5.668	0.450	-0.042	0.095	0.172	11111	1.11	39268.9397	3
7001	0.067	0.014	0.068			11100	1.04	38869.9563	1
7001	-0.031	0.009	0.058	-0.022	-0.060	11111	1.26	39019.7230	3
7001	0.053	0.053	0.081	0.035	-0.061	11111	1.14	39298.7376	1
7001	0.076	0.068	0.058	-0.020	0.007	11111	1.01	39377.6409	1

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
7020	5.168	0.264	-0.062	-0.089	0.017	11111	1.34	38896.9193	3
7020	5.275	0.298	-0.064	-0.120	0.038	11111	1.37	39269.8799	3
7056	4.654	0.197	0.031			11100	1.03	38869.9721	1
7056	4.613	0.174	0.073	0.047	-0.003	11111	1.01	39269.8906	3
7056	4.628	0.193	0.055	0.023	0.008	11111	1.08	39300.7574	3
7061	4.809	0.309	-0.174	-0.402	0.047	11111	1.05	38916.8458	3
7061	4.815	0.304	-0.159	-0.378	0.038	11111	1.02	39269.9194	3
7063	5.895	0.919	0.146	0.067	0.117	11111	1.28	38916.8558	3
7063	5.893	0.886	0.179	0.114	0.137	11111	1.26	39270.8990	3
7064	6.803	1.166	0.411	0.275	0.190	11111	1.01	38916.8697	3
7064	6.782	1.154	0.444	0.288	0.212	11111	1.01	39270.9100	3
7066	7.220	1.069	0.339	0.455	0.277	11111	1.34	38917.8321	3
7066	7.882	1.334	0.504	0.676	0.507	11111	1.31	39272.8721	3
7066	8.120	0.932	0.379	0.589	0.502	11111	1.35	39298.7861	1
7066	6.908	0.848	0.000	0.531	0.424	11011	1.27	39376.6294	3
7069	4.544	0.178	0.068	-0.070	-0.031	11111	1.06	38917.8429	3
7069	4.548	0.152	0.051	-0.081	-0.023	11111	1.04	39272.8838	3
7106	3.330	-0.085	-0.466	-0.742	-0.086	11111	1.01	38917.8555	3
7106	3.312	-0.089	-0.493	-0.811	-0.078	11111	1.00	39240.9878	3
7106	3.328	-0.092	-0.470	-0.750	-0.099	11111	1.20	39297.7313	3
7106	3.508	-0.065	-0.476	-0.779	-0.060	11111	1.12	39300.7465	3
7106	3.421	-0.078	-0.477	-0.792	-0.059	11111	1.07	39407.6103	1
7106	3.362	-0.075	-0.495	-0.782	-0.101	11111	1.06	39408.6044	3
7125	6.634	1.105	0.310	0.155	0.276	11111	1.13	38918.8574	3
7125	6.509	1.054	0.266	0.107	0.240	11111	1.12	39272.8973	3
7133	5.752	0.587	0.121	0.018	0.033	11111	1.02	38918.8698	3
7133	5.733	0.585	0.102	-0.015	0.072	11111	1.02	39272.9079	3
7137	6.250	0.743	0.067	-0.073	0.112	11111	1.05	38922.8693	1
7137	6.297	0.750	0.081	-0.098	0.127	11111	1.06	39272.9294	3
7139	6.694	1.357	0.533	0.659	0.484	11111	1.00	38922.8811	1
7139	6.686	1.246	0.481	0.545	0.494	11111	1.03	39279.8500	3
7141	4.848	0.157	0.024	-0.028	-0.006	11111	1.16	38922.9051	1
7141	4.840	0.138	0.054	-0.026	-0.040	11111	1.17	39279.8596	3
7157	6.369	0.833	0.630	0.922	0.818	11111	1.02	38922.8920	1
7157	6.333	0.855	0.616	0.857	0.771	11111	1.02	39280.8769	3
7157	6.270	0.866	0.631	0.900	0.751	11111	1.18	39297.7419	3
7176	5.764	1.023	0.362	0.245	0.165	11111	1.05	38924.8614	3
7176	5.769	1.002	0.343	0.236	0.144	11111	1.05	39280.8862	3
7178	3.150	-0.052	-0.165			11100	2.27	38865.8166	1
7178	3.175	-0.059	-0.156			11100	1.07	38865.9616	1
7178	3.188	-0.065	-0.147			11100	1.27	38869.8946	1
7178	3.163	-0.063	-0.151			11100	1.02	38869.9888	1
7178	3.054	-0.083	-0.161			11100	1.10	38870.9363	1
7178	3.142	-0.060	-0.170			11100	1.02	38870.9782	1
7178	3.118	-0.063	-0.160			11100	1.13	38871.9253	1
7180	6.675	1.079	0.370	0.242	0.190	11111	1.29	38924.8509	3
7180	6.674	1.083	0.363	0.218	0.184	11111	1.28	39258.9499	3
7193	5.750	1.006	0.334	0.166	0.177	11111	1.28	38924.8853	3
7193	5.779	1.003	0.329	0.177	0.154	11111	1.27	39280.8956	3
7235	2.991	0.022	0.042	-0.001	-0.049	11111	1.06	38887.9690	3
7235	2.967	0.027	0.026	0.014	-0.101	11111	1.26	39019.7155	3
7236	3.275	-0.089	-0.136	-0.318	-0.097	11111	1.26	38887.9790	3
7236	3.318	-0.042	-0.139	-0.259	-0.087	11111	1.69	39019.7292	3
7236	3.277	-0.080	-0.129	-0.305	-0.120	11111	1.26	39269.9297	3
7298	4.154	-0.156	-0.446	-0.788	-0.131	11111	1.01	38888.9751	3
7298	4.152	-0.166	-0.472	-0.787	-0.146	11111	1.17	39024.7138	3
7306	4.611	-0.115	-0.357	-0.674	-0.135	11111	1.02	38894.9544	3
7306	4.599	-0.100	-0.365	-0.705	-0.101	11111	1.02	39025.6223	3
7310	4.588	0.863	0.188	0.025	0.139	11111	1.22	38894.9657	3
7310	4.642	0.868	0.195	0.064	0.203	11111	1.36	39024.7253	3
7314	6.407	1.190	0.375	0.282	0.182	11111	1.01	38894.9760	3
7314	6.371	1.181	0.360	0.296	0.157	11111	1.01	39025.6324	3
7328	5.222	0.825	0.161			11100	1.08	38870.0064	1
7328	5.242	0.823	0.176	0.034	0.127	11111	1.08	39025.6431	3
7340	4.252	0.193	-0.005	-0.029	-0.003	11111	1.56	38896.9676	3
7340	4.205	0.200	0.015	-0.028	0.005	11111	1.57	39026.6243	3
7342	4.689	-0.016	-0.520	-0.818	0.129	11111	1.51	38896.9783	3
7342	4.578	-0.015	-0.528	-0.846	0.127	11111	1.53	39026.6354	3
7352	6.603	1.310	0.534	0.456	0.179	11111	1.32	38896.9439	3
7352	6.567	1.322	0.541	0.455	0.196	11111	1.34	39026.6495	3
7358	4.985	-0.122	-0.289	-0.655	-0.114	11111	1.01	38896.9557	3
7358	4.954	-0.113	-0.286	-0.649	-0.135	11111	1.01	39027.6235	3
7371	4.654	0.051	0.080	0.050	-0.019	11111	1.20	38898.9293	3
7371	4.624	0.065	0.083	0.056	-0.027	11111	1.20	39027.6339	3
7372	4.827	-0.126	-0.462	-0.900	-0.129	11111	1.01	38898.9421	3
7372	4.730	-0.146	-0.428	-0.877	-0.160	11111	1.02	39027.6455	3
7377	3.802	0.205	-0.082	-0.199	0.019	11111	1.15	38898.9535	3
7377	3.732	0.219	-0.090	-0.222	0.003	11111	1.15	39028.6149	3
7387	5.448	0.322	0.058	0.593	0.199	11111	1.18	38898.9632	3
7387	5.383	0.302	0.054	0.606	0.192	11111	1.19	39028.6246	3
7405	7.088	1.602	0.645	0.610	0.429	11111	1.01	38917.8958	3
7405	7.019	1.578	0.627	0.566	0.431	11111	1.02	39028.6347	3
7417	4.784	0.891	0.084	-0.138	-0.028	11111	1.00	38917.9072	3
7417	4.750	0.883	0.046	-0.176	-0.021	11111	1.00	39257.9706	3
7420	4.008	0.117	0.033	0.053	-0.018	11111	1.06	38917.9182	3
7420	3.957	0.103	0.037	0.053	-0.006	11111	1.06	39269.9409	3
7426	4.503	-0.167	-0.395	-0.744	-0.150	11111	1.00	38924.8973	3
7426	4.512	-0.147	-0.412	-0.754	-0.156	11111	1.00	39269.9518	3
7429	6.370	1.152	0.452	0.326	0.159	11111	1.11	38924.9079	3
7429	6.379	1.163	0.484	0.316	0.175	11111	1.11	39269.9620	3
7437	4.834	-0.121	-0.267	-0.483	-0.123	11111	1.11	38925.8232	3
7437	4.841	-0.109	-0.284	-0.503	-0.074	11111	1.03	39270.9316	3
7446	4.876	-0.153	-0.607	-1.115	-0.157	11111	1.40	38925.8352	3
7446	4.880	-0.127	-0.623	-1.140	-0.126	11111	1.30	39270.9423	3
7447	4.202	-0.096	-0.289	-0.537	-0.128	11111	1.24	38925.8568	3
7447	4.210	-0.111	-0.291	-0.556	-0.100	11111	1.20	39270.9513	3
7462	5.853	0.664	0.055	-0.309	0.052	11111	1.26	38925.8686	3
7462	5.854	0.664	0.050	-0.299	0.040	11111	1.25	39258.9760	3
7469	5.027	0.253	-0.162	-0.364	-0.010	11111	1.05	38925.8842	3
7469	5.000	0.277	-0.167	-0.388	0.031	11111	1.05	39018.6547	3
7469	5.046	0.263	-0.174	-0.380	-0.018	11111	1.05	39272.9420	3
7478	6.219	0.869	0.202	0.070	0.098	11111	1.00	38925.8950	3
7478	6.171	0.859	0.209	0.068	0.106	11111	1.07	39278.8627	1
7479	5.565	0.626	-0.037	-0.156	0.147	11111	1.04	38925.9178	3
7479	5.515	0.612	-0.047	-0.172	0.166	11111	1.09	39278.8730	1
7488	6.066	0.931	0.212	0.142	0.110	11111	1.05	38925.9273	3
7488	6.009	0.933	0.215	0.135	0.144	11111	1.07	39278.8846	1
7503	6.930	0.491	-0.091	-0.354	0.044	11111	1.07	38925.9392	3
7503	6.910	0.448	-0.094	-0.367	0.000	11111	1.09	39252.9479	1
7503	6.882	0.476	-0.061	-0.350	0.060	11111	1.09	39279.8694	3
7503	6.848	0.463	-0.068	-0.350	0.059	11111	1.08	39407.6266	1
7504	7.193	0.506	-0.060	-0.348	0.025	11111	1.08	38925.9490	3
7504	7.143	0.470	0.009	-0.382	0.078	11111	1.10	39252.9383	1
7504	7.168	0.495	-0.076	-0.351	0.045	11111	1.08	39279.8782	3
7504	7.143	0.474	-0.054	-0.350	0.058	11111	1.27	39281.7969	3
7504	7.142	0.486	-0.071	-0.346	0.045	11111	1.09	39407.6376	1
7525	5.362	1.570	0.605	0.490	0.287	11111	1.16	38926.8363	3
7525	5.296	1.522	0.561	0.469	0.308	11111	1.12	39279.8877	3
7528	2.822	-0.061	-0.012	-0.010	-0.104	11111	1.06	38926.8463	3
7528	2.811	-0.042	-0.053	-0.052	-0.072	11111	1.04	39279.8974	3
7536	5.942	1.040	0.275	0.178	0.060	11111	1.05	38926.8689	3
7536	5.950	1.029	0.227	0.170	0.074	11111	1.11	39281.8617	3
7546	5.186	0.087	0.050	0.037	-0.054	11111	1.04	38926.8793	3
7546	5.130	0.059	0.049	0.026	-0.019	11111	1.09	39281.8707	3
7557	1.019	0.180	-0.018			11100	1.39	38871.9405	1
7557	1.038	0.168	-0.014	-0.091	-0.020	11111	1.30	39019.7427	3
7557	1.079	0.193	-0.019	-0.100	0.017	11111	1.10	39377.6517	1
7564	9.759	0.048	-0.333	-0.107	0.282	11111	1.00	38926.8988	3
7564	7.752	0.389	0.001	0.599	0.812	11111	1.08	39240.9660	3
7564	8.717	-0.524	-0.338	0.404	1.046	11111	1.29	39297.7565	3
7565	4.730	-0.162	-0.370	-0.796	-0.154	11111	1.02	38926.9225	3
7565	4.692	-0.166	-0.401	-0.772	-0.164	11111	1.18	39297.7892	3
7570	5.145	0.673	-0.003			11100	1.42	38871.9573	1
7570	5.771	0.774	0.095	0.079	0.180	11111	1.27	39297.8233	3
7570	5.383	0.715	0.062	0.066	0.200	11111	1.19	39410.6005	3
7574	6.197	-0.089	-0.657	-1.209	-0.140	11111	1.17	39246.9404	1
7574	6.203	-0.158	-0.636	-1.199	-0.139	11111	1.04	39249.9958	1
7582	5.180	0.690	0.066	-0.127	0.134	11111	1.28	38926.9368	3
7582	5.157	0.689	0.045	-0.151	0.152	11111	1.27	39258.9680	3
7589	5.485	-0.172	-0.619	-1.190	-0.175	11111	1.06	38926.9484	3
7589	0.000	-0.238	-0.634	-1.203	-0.163	01111	1.07	39297.8328	3
7589	5.470	-0.169	-0.640	-1.211	-0.140	11111	1.06	39298.8376	1
7592	4.444	-0.006	-0.138			11100	1.12	38871.9733	1
7592	4.506	-0.041	-0.085	-0.165	-0.049	11111	1.02	39298.8673	1
7595	6.337	0.945	0.265	0.119	0.154	11111	1.20	38928.8271	3
7595	6.336	0.904	0.281	0.130	0.181	11111	1.10	39298.8774	1

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
7602	4.956	0.679	0.084	-0.187	0.082	11111	1.20	38928.8364	3
7602	4.990	0.688	0.075	-0.208	0.103	11111	1.24	39300.8058	3
7613	4.784	-0.118	-0.358	-0.611	-0.137	11111	1.04	38928.8464	3
7613	4.779	-0.122	-0.361	-0.634	-0.110	11111	1.20	39300.7684	3
7615	5.500	0.911	0.243	0.104	0.124	11111	1.02	38928.8683	3
7615	5.480	0.900	0.272	0.114	0.143	11111	1.11	39300.7963	3
7619	5.084	0.091	0.047	0.016	-0.006	11111	1.07	38928.8782	3
7619	5.221	0.128	0.043	0.033	-0.034	11111	1.09	39304.9187	1
7635	6.287	1.686	0.648	0.589	0.349	11111	1.03	38928.8886	3
7635	6.336	1.726	0.687	0.596	0.356	11111	1.08	39304.9289	1
7653	4.933	0.147	0.052	0.065	0.033	11111	1.00	38928.8979	3
7653	4.937	0.165	0.063	0.099	0.030	11111	1.08	39304.9417	1
7678	6.217	0.149	-0.477	-0.870	-0.029	11111	1.02	38916.8980	3
7678	6.206	0.161	-0.493	-0.873	-0.012	11111	1.00	39016.6793	3
7685	6.781	1.365	0.529	0.449	0.240	11111	1.23	38916.9096	3
7685	6.750	1.358	0.552	0.459	0.225	11111	1.23	39016.6671	3
7708	4.755	-0.165	-0.493	-0.936	-0.143	11111	1.01	38916.9212	3
7708	4.700	-0.166	-0.491	-0.908	-0.146	11111	1.01	39016.6894	3
7710	3.064	-0.065	-0.084			11100	1.47	38870.9641	1
7710	3.096	-0.064	-0.064	-0.150	-0.029	11111	1.19	39016.6993	3
7724	5.092	0.097	0.093	-0.022	-0.038	11111	1.05	38917.9423	3
7724	5.054	0.083	0.061	-0.056	-0.010	11111	1.05	39268.9706	3
7730	4.990	0.062	0.048	0.271	0.006	11111	1.03	38917.9526	3
7730	4.962	0.076	0.006	0.217	0.037	11111	1.05	39046.6255	1
7735	5.696	0.944	-0.092	-0.427	-0.081	11111	1.04	38917.9644	3
7735	5.611	0.900	-0.090	-0.411	-0.080	11111	1.03	39269.9733	3
7736	5.165	0.083	0.016	-0.050	-0.043	11111	1.01	38921.9172	3
7736	5.156	0.106	0.007	-0.096	-0.008	11111	1.00	39270.9712	3
7739	4.572	-0.173	-0.453	-0.879	-0.165	11111	1.01	38921.9290	3
7739	4.562	-0.150	-0.483	-0.909	-0.157	11111	1.01	39272.9661	3
7740	4.515	0.088	0.033	0.045	-0.003	11111	1.10	38921.9424	3
7740	4.440	0.091	0.037	0.025	-0.005	11111	1.12	39279.9080	3
7744	6.588	1.206	0.282	0.157	0.120	11111	1.00	38924.9306	3
7744	6.565	1.184	0.307	0.137	0.159	11111	1.02	39279.9176	3
7747	5.876	0.899	0.122	0.054	0.194	11111	1.42	38924.9422	3
7747	5.852	0.849	0.135	0.078	0.178	11111	1.44	39279.9276	3
7750	4.314	-0.053	-0.052	-0.071	-0.070	11111	1.42	38928.9248	3
7750	4.317	-0.036	-0.125	-0.130	-0.049	11111	1.42	39046.6097	1
7751	6.441	1.284	0.145	-0.070	0.068	11111	1.05	38924.9632	3
7751	6.384	1.276	0.137	-0.080	0.029	11111	1.04	39280.9282	3
7754	5.010	0.803	0.136	-0.005	0.115	11111	1.44	38924.9515	3
7754	5.020	0.789	0.145	0.000	0.098	11111	1.42	39280.9386	3
7763	5.286	0.097	-0.551	-0.999	-0.045	11111	1.01	38928.9387	3
7763	5.308	0.077	-0.540	-0.999	-0.033	11111	1.00	39280.9477	3
7767	5.907	-0.056	-0.569	-1.086	-0.091	11111	1.03	38928.9500	3
7767	5.913	-0.079	-0.555	-1.069	-0.115	11111	1.01	39280.9566	3
7773	4.681	-0.038	-0.017	-0.111	-0.072	11111	1.50	38929.8662	3
7773	4.679	-0.033	-0.039	-0.100	-0.056	11111	1.54	39281.8916	3
7776	4.184	0.551	-0.015	-0.200	-0.024	11111	1.52	38929.8783	3
7776	4.187	0.541	-0.058	-0.237	-0.014	11111	1.56	39281.9003	3
7796	3.228	0.520	-0.008	0.169	0.193	11111	1.02	38929.8887	3
7796	3.228	0.539	-0.029	0.165	0.226	11111	1.26	39406.7382	1
7796	3.230	0.538	-0.040	0.150	0.227	11111	1.01	39408.6223	3
7806	6.713	1.365	0.558	0.405	0.249	11111	1.00	38929.8992	3
7806	6.717	1.372	0.552	0.404	0.264	11111	1.00	39298.8887	1
7822	5.266	0.246	-0.132	-0.284	0.014	11111	1.57	39018.6727	3
7822	5.264	0.249	-0.099	-0.239	0.002	11111	1.57	39298.9137	1
7834	4.582	0.328	-0.041	0.119	0.117	11111	1.00	39018.6852	3
7834	4.578	0.281	-0.030	0.157	0.118	11111	1.00	39298.9003	1
7844	4.780	-0.098	-0.488	-0.812	-0.126	11111	1.05	39018.6971	3
7844	4.777	-0.128	-0.453	-0.806	-0.140	11111	1.08	39300.8481	3
7847	7.511	0.543	0.139	0.518	0.201	11111	1.07	39024.7329	3
7847	7.583	0.616	0.102	0.441	0.258	11111	1.03	39300.8592	3
7850	4.500	0.192	0.053	0.042	-0.004	11111	1.20	39019.7392	3
7850	4.498	0.180	0.035	0.009	0.028	11111	1.28	39306.7850	1
7852	3.806	-0.137	-0.285	-0.556	-0.144	11111	1.21	39024.7445	3
7852	3.842	-0.107	-0.336	-0.604	-0.134	11111	1.27	39306.7954	1
7866	6.980	1.167	-0.036	-0.320	-0.115	11111	1.13	39024.7552	3
7866	7.063	1.217	-0.017	-0.372	-0.053	11111	1.11	39306.8050	1
7871	4.780	0.103	0.074	0.062	-0.006	11111	1.05	39025.6542	3
7871	4.893	0.149	0.052	0.010	-0.071	11111	1.48	39318.7251	1
7882	4.215	0.305	-0.137	-0.289	0.050	11111	1.05	39025.6640	3
7882	4.321	0.367	-0.112	-0.202	0.023	11111	1.40	39318.7368	1
7884	5.736	0.794	0.124	-0.006	0.150	11111	1.20	39025.6747	3
7884	5.771	0.840	0.161	0.013	0.098	11111	1.43	39318.7699	1
7891	4.729	-0.014	-0.037	-0.125	-0.081	11111	1.02	39026.6604	3
7891	4.763	-0.013	-0.023	-0.116	-0.091	11111	1.27	39318.7486	1
7906	3.654	-0.052	-0.134	-0.221	-0.098	11111	1.04	39026.6696	3
7906	3.682	-0.033	-0.137	-0.233	-0.093	11111	1.26	39318.7599	1
7924	1.312	-0.047	-0.386			11100	1.08	38641.7838	1
7924	1.307	-0.085				11000	1.50	38751.5875	3
7924	1.309	-0.040	-0.355			11100	1.39	38752.5681	3
7924	1.316	-0.066	-0.373			11100	1.88	38764.5908	1
7924	1.333	-0.028	-0.402	-0.190	0.055	11111	1.03	39026.6910	3
7924	1.396	-0.040	-0.377	-0.185	0.071	11111	1.03	39058.5904	3
7924	1.372	-0.003	-0.371	-0.205	0.085	11111	1.05	39377.6628	1
7924	1.367	-0.044	-0.371	-0.199	0.065	11111	1.15	39406.7182	1
7928	4.731	0.191	-0.026	-0.092	0.020	11111	1.05	39027.6566	3
7928	4.795	0.207	-0.053	-0.099	0.002	11111	1.08	39359.7964	1
7939	6.775	1.114	0.424	0.285	0.203	11111	1.01	39027.6682	3
7939	6.858	1.114	0.407	0.271	0.227	11111	1.14	39359.8422	1
7942	5.889	0.972	0.242	0.117	0.126	11111	1.00	39028.6468	3
7942	5.823	0.952	0.254	0.070	0.186	11111	1.02	39365.7719	1
7947	5.093	0.672	0.064	-0.130	0.057	11111	1.05	39029.6431	3
7947	5.108	0.693	0.043	-0.135	0.094	11111	1.08	39365.7817	1
7949	4.064	0.894	0.214			11100	1.08	38641.7932	1
7949	4.016	0.900	0.231	0.078	0.144	11111	1.01	39029.6324	3
7949	4.052	0.914	0.217	0.058	0.164	11111	1.04	39365.7910	1
7950	3.710	-0.004	0.032	0.083	-0.044	11111	1.35	39029.6535	3
7950	3.839	0.030	0.020	0.088	-0.054	11111	1.45	39372.6623	3
7951	7.238	1.628	0.664	0.716	0.487	11111	1.26	39029.6636	3
7951	7.309	1.603	0.647	0.701	0.500	11111	1.33	39372.6721	3
7955	5.281	0.405	-0.099	-0.315	0.052	11111	1.10	39028.6590	3
7955	5.258	0.392	-0.139	-0.349	0.028	11111	1.21	39372.6218	3
7957	4.808	0.776	0.137	-0.097	0.124	11111	1.15	39028.6710	3
7957	4.802	0.764	0.130	-0.119	0.141	11111	1.23	39372.6314	3
7963	4.295	-0.112	-0.328	-0.607	-0.137	11111	1.01	39029.6738	3
7963	4.342	-0.096	-0.365	-0.623	-0.117	11111	1.07	39372.6516	3
7977	5.232	0.091	-0.490	-0.774	-0.048	11111	1.04	39029.6846	3
7977	5.320	0.099	-0.499	-0.787	-0.020	11111	1.11	39372.6413	3
7990	5.200	0.253	-0.062	-0.161	-0.010	11111	1.34	39042.6319	3
7990	5.292	0.273	-0.033	-0.102	0.014	11111	1.34	39373.7047	1
7995	5.803	0.677	0.014	-0.154	0.096	11111	1.01	39042.6220	3
7995	5.795	0.672	0.030	-0.147	0.132	11111	1.02	39373.6917	1
8001	4.593	-0.123	-0.387	-0.761	-0.148	11111	1.02	39042.6425	3
8001	4.574	-0.124	-0.337	-0.687	-0.124	11111	1.06	39373.6694	1
8020	6.263	0.161	-0.465	-0.626	0.018	11111	1.03	39045.6225	3
8020	6.230	0.159	-0.459	-0.638	0.039	11111	1.09	39373.6599	1
8028	3.972	0.004	-0.062	0.073	-0.030	11111	1.01	39045.6320	3
8028	3.941	-0.018	-0.059	0.061	-0.043	11111	1.04	39373.6789	1
8047	4.499	-0.119	-0.637	-1.224	-0.120	11111	1.04	39045.6417	3
8047	4.648	-0.146	-0.590	-1.156	-0.147	11111	1.11	39373.6502	1
8060	5.080	0.119	0.054	-0.024	-0.005	11111	1.67	38916.9501	3
8060	5.052	0.148	0.054	-0.045	-0.026	11111	1.66	39016.7281	3
8075	4.141	0.023	0.034	-0.053	-0.040	11111	1.55	38921.9606	3
8075	4.086	0.019	0.047	-0.033	-0.059	11111	1.56	39056.6136	3
8079	6.470	1.595	0.435	0.401	0.251	11111	1.02	38916.9620	3
8079	6.465	1.604	0.511	0.479	0.261	11111	1.03	39016.7413	3
8085	7.177	1.210	0.425	0.012	0.145	11111	1.01	38926.9709	3
8085	7.191	1.208	0.403	-0.013	0.189	11111	1.03	39056.6411	3
8086	8.249	1.312	0.413	0.046	0.183	11111	1.01	38926.9609	3
8086	8.247	1.341	0.366	0.039	0.197	11111	1.02	39056.6319	3
8089	7.323	1.650	0.568	0.527	0.300	11111	1.04	38928.9633	3
8089	7.309	1.674	0.565	0.520	0.324	11111	1.04	39057.6081	3
8093	5.938	0.797	0.166	-0.011	0.119	11111	1.41	38929.9221	3
8093	5.969	0.824	0.141	-0.025	0.131	11111	1.40	39057.6182	3
8097	5.116	0.256	-0.018	-0.150	-0.035	11111	1.09	38929.9325	3
8097	5.151	0.251	-0.030	-0.175	-0.005	11111	1.10	39057.6274	3
8115	4.721	0.849	0.115			11100	1.06	38689.6712	1
8115	4.746	0.876	0.151	0.024	0.064	11111	1.00	38929.9419	3
8115	4.781	0.879	0.145	0.015	0.103	11111	1.00	39058.6012	3

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
8115	4.879	0.918	0.159	0.038	0.159	11111	1.04	39372.6850	3
8115	4.767	0.879	0.160	0.022	0.087	11111	1.20	39406.7551	1
8115	4.789	0.896	0.155	-0.008	0.082	11111	1.00	39408.6334	3
8123	5.167	0.325	-0.163	-0.418	0.012	11111	1.08	38929.9507	3
8123	5.150	0.331	-0.186	-0.433	0.031	11111	1.48	39058.9181	3
8130	4.284	0.258	-0.116	-0.276	0.007	11111	1.01	38929.9599	3
8130	4.330	0.259	-0.126	-0.284	0.048	11111	1.02	39059.6272	3
8131	4.639	0.401	0.073	-0.024	0.018	11111	1.13	39018.7231	3
8131	4.621	0.382	0.091	-0.016	0.037	11111	1.13	39060.6055	3
8143	4.275	-0.039	-0.430	-0.496	-0.063	11111	1.05	39019.7606	3
8143	4.511	0.006	-0.340	-0.386	-0.005	11111	1.01	39060.6160	3
8146	4.207	-0.148	-0.526	-1.040	-0.145	11111	1.04	39019.7602	3
8146	4.193	-0.135	-0.521	-1.079	-0.120	11111	1.00	39061.6069	3
8162	2.769	0.187	0.002	-0.048	-0.003	11111	1.21	39019.7785	3
8162	2.766	0.193	0.003	-0.069	0.009	11111	1.16	39061.6185	3
8162	2.789	0.179	0.018	-0.033	0.006	11111	1.18	39377.6766	1
8167	5.621	0.731	0.048	-0.098	0.127	11111	1.54	39025.7032	3
8167	5.603	0.713	0.122	-0.086	0.133	11111	1.63	39279.9486	3
8173	5.835	1.019	0.337	0.220	0.140	11111	1.03	39025.7136	3
8173	5.846	1.023	0.366	0.202	0.151	11111	1.05	39279.9580	3
8225	7.296	1.693	0.649	0.609	0.402	11111	1.02	39025.7239	3
8225	7.321	1.680	0.680	0.659	0.380	11111	1.02	39279.9855	3
8232	4.165	0.690	0.000	-0.012	0.196	11111	1.27	39028.6948	3
8232	4.147	0.683	-0.001	-0.029	0.217	11111	1.32	39281.9563	3
8238	2.880	-0.197	-0.608	-1.135	-0.182	11111	1.27	39026.7023	3
8238	2.868	-0.218	-0.610	-1.144	-0.184	11111	1.32	39281.9218	3
8252	5.344	0.745	0.072	-0.086	0.103	11111	1.03	39028.7151	3
8252	5.305	0.718	0.085	-0.123	0.147	11111	1.06	39281.9465	3
8255	6.606	1.013	0.315	0.206	0.132	11111	1.01	39031.6721	3
8255	6.584	0.999	0.334	0.192	0.130	11111	1.10	39300.8695	3
8260	4.415	-0.187	-0.487	-0.679	-0.110	11111	1.63	39031.6950	3
8260	4.334	-0.196	-0.518	-0.745	-0.124	11111	1.73	39300.9011	3
8262	7.517	0.597	0.546	0.949	0.872	11111	1.03	39031.6846	3
8262	7.683	0.510	0.563	0.955	0.831	11111	1.07	39306.8733	1
8262	7.516	0.647	0.613	0.981	0.927	11111	1.03	39410.6366	3
8264	4.933	0.143	0.045	0.025	0.003	11111	1.31	39042.6530	3
8264	5.000	0.171	0.032	0.018	0.017	11111	1.39	39306.8853	1
8278	4.166	0.287	0.002	-0.016	0.005	11111	1.54	39042.6781	3
8278	0.000	0.331	-0.017	-0.004	-0.005	01111	1.59	39306.8956	1
8278	4.149	0.280	-0.014	-0.018	0.034	11111	1.53	39407.6554	1
8279	5.076	0.044	-0.498	-0.854	-0.057	11111	1.15	39042.6640	3
8279	5.099	0.036	-0.487	-0.812	-0.031	11111	1.18	39372.6989	3
8288	6.041	0.706	0.070	-0.098	0.195	11111	1.60	39045.6529	3
8288	6.047	0.716	0.071	-0.113	0.191	11111	1.66	39372.7203	3
8297	12.406	4.075	1.589	2.791	-2.893	11111	1.02	39042.6952	3
8297	11.663	3.552	1.682	1.366	-0.463	11111	1.01	39372.7368	3
8297	12.155	3.775	1.831	1.352	0.000	11110	1.01	39407.6790	1
8301	4.542	-0.124	-0.458	-0.813	-0.132	11111	1.06	39045.6629	3
8301	4.515	-0.119	-0.451	-0.808	-0.113	11111	1.06	39372.7488	3
8308	5.035	1.521	0.464	0.421	0.331	11111	1.08	39051.6341	3
8308	5.043	1.535	0.507	0.475	0.310	11111	1.09	39372.7796	3
8309	5.129	0.297	-0.192	-0.424	0.038	11111	1.01	39052.6112	3
8309	5.073	0.356	-0.228	-0.493	0.022	11111	1.01	39375.7304	1
8313	6.162	1.028	0.190	0.130	0.188	11111	1.04	39052.6201	3
8313	6.057	1.035	0.233	0.113	0.165	11111	1.04	39375.7414	1
8315	4.719	0.280	-0.156	-0.330	0.034	11111	1.01	39052.6292	3
8315	4.607	0.221	-0.142	-0.353	0.023	11111	1.01	39375.7618	1
8316	7.909	1.962	0.752	1.096	0.469	11111	1.11	39051.6443	3
8316	7.897	2.011	0.729	1.022	0.385	11111	1.19	39376.6673	3
8316	7.972	1.992	0.742	1.050	0.381	11111	1.13	39407.6987	1
8316	7.968	2.018	0.738	1.045	0.383	11111	1.11	39409.6556	3
8316	7.991	2.013	0.769	1.073	0.366	11111	1.33	39443.6988	1
8316	7.944	1.997	0.762	1.070	0.397	11111	1.18	39459.5975	1
8316	7.991	2.022	0.762	1.047	0.429	11111	1.18	39468.5718	1
8316	8.039	2.026	0.713	1.051	0.367	11111	1.47	39502.5687	1
8317	6.366	1.086	0.371	0.268	0.150	11111	1.28	39051.6224	3
8317	6.309	1.071	0.380	0.254	0.135	11111	1.32	39376.6804	3
8317	6.367	1.075	0.374	0.258	0.139	11111	1.31	39407.7165	1
8322	3.290	0.237	-0.066	-0.183	0.025	11111	1.52	39053.6448	3
8322	3.338	0.206	-0.016	-0.154	-0.047	11111	1.51	39375.7512	1
8327	6.292	0.061	-0.553	-1.015	-0.049	11111	1.15	39052.6419	3
8327	6.278	0.081	-0.561	-1.025	-0.050	11111	1.19	39376.6927	3
8334	4.959	0.167	-0.236	0.078	0.163	11111	1.14	39053.6343	3
8334	4.891	0.172	-0.257	0.080	0.178	11111	1.16	39376.7044	3
8335	4.050	-0.140	-0.509	-0.902	-0.124	11111	1.05	39053.6547	3
8335	4.051	-0.122	-0.508	-0.877	-0.133	11111	1.05	39376.7274	3
8383	7.493	1.093	0.693	-0.931	0.052	11111	1.17	39053.6643	3
8383	7.430	1.089	-0.421	-0.939	0.022	11111	1.17	39376.7361	3
8383	7.627	1.187	-0.288	-0.829	0.053	11111	1.23	39407.7541	1
8402	4.559	-0.108	-0.306	-0.501	-0.120	11111	1.22	39016.7651	3
8402	4.579	-0.108	-0.326	-0.494	-0.112	11111	1.22	39056.6522	3
8413	7.381	1.567	0.686	0.561	0.348	11111	1.15	39016.7773	3
8413	7.441	1.594	0.651	0.590	0.245	11111	1.14	39056.6620	3
8414	4.463	0.849	0.018			11100	1.18	38705.6151	3
8414	4.485	0.822	0.076	0.019	0.204	11111	1.21	39056.6784	3
8417	4.767	0.287	-0.091	-0.219	-0.004	11111	1.20	39016.7885	3
8417	4.775	0.265	-0.056	-0.207	0.007	11111	1.18	39057.6394	3
8418	4.139	-0.059	-0.163			11100	1.49	38705.6338	3
8418	4.192	-0.048	-0.177	-0.414	-0.113	11111	1.46	39057.6574	3
8430	4.353	0.314	-0.171			11100	1.01	38705.5964	3
8430	4.365	0.282	-0.147	-0.413	0.000	11111	1.01	39375.7743	1
8430	4.391	0.318	-0.167	-0.399	0.010	11111	1.09	39468.5854	1
8450	3.636	0.097	0.086			11100	1.15	38705.6460	3
8450	3.677	0.086	0.053	0.007	-0.019	11111	1.13	39057.6683	3
8454	4.896	0.313	-0.099	-0.086	0.083	11111	1.01	39018.7711	3
8454	4.986	0.314	-0.096	-0.085	0.104	11111	1.01	39059.6606	3
8465	5.976	1.520	0.492	0.460	0.265	11111	1.12	39018.7855	3
8465	6.061	1.537	0.487	0.456	0.280	11111	1.11	39060.6341	3
8468	6.220	0.776	0.097	0.014	0.155	11111	1.32	39024.7841	3
8468	6.210	0.770	0.088	-0.060	0.135	11111	1.30	39060.6448	3
8469	5.253	-0.030	-0.582	-1.026	-0.092	11111	1.14	39024.7764	3
8469	5.338	0.003	-0.591	-1.082	-0.080	11111	1.13	39060.6549	3
8485	6.765	1.313	0.463	0.418	0.141	11111	1.05	39024.7885	3
8485	6.829	1.362	0.473	0.367	0.199	11111	1.01	39061.6386	3
8494	4.547	0.201	-0.039	-0.136	0.015	11111	1.10	39026.7248	3
8494	4.607	0.201	-0.046	-0.155	0.005	11111	1.10	39061.6492	3
8498	6.584	1.490	0.553	0.476	0.237	11111	1.00	39026.7355	3
8498	6.620	1.486	0.557	0.484	0.257	11111	1.01	39061.6592	3
8499	5.709	0.891	0.200	0.072	0.117	11111	1.32	39026.7458	3
8499	5.697	0.872	0.223	0.067	0.147	11111	1.43	39300.9158	3
8518	3.794	-0.020	-0.031	-0.102	-0.062	11111	1.21	39028.7278	3
8518	3.774	-0.039	-0.031	-0.125	-0.059	11111	1.28	39300.9284	3
8520	4.826	-0.156	-0.506	-0.947	-0.167	11111	1.07	39028.7381	3
8520	4.746	-0.175	-0.525	-0.982	-0.128	11111	1.07	39304.9634	1
8522	4.796	-0.036	-0.179	-0.190	-0.073	11111	1.01	39028.7466	3
8522	4.819	0.018	-0.223	-0.295	-0.065	11111	1.00	39375.7859	1
8523	4.355	-0.105	-0.341	-0.640	-0.152	11111	1.03	39029.7195	3
8523	4.412	-0.101	-0.357	-0.648	-0.116	11111	1.03	39376.7697	3
8538	5.964	0.875	0.186	-0.006	0.182	11111	1.06	39029.7294	3
8538	5.995	0.880	0.192	0.035	0.174	11111	1.06	39376.7803	3
8539	4.553	-0.125	-0.668	-1.271	-0.131	11111	1.17	39031.7278	3
8539	4.504	-0.130	-0.643	-1.245	-0.118	11111	1.17	39376.7907	3
8541	4.644	-0.044	-0.396	-0.440	-0.045	11111	1.05	39031.7379	3
8541	4.681	-0.028	-0.404	-0.452	-0.037	11111	1.13	39377.6926	1
8551	6.426	0.927	0.280	0.074	0.175	11111	1.14	39031.7474	3
8551	0.000	0.013	0.000	0.000	0.173	00001	1.18	39377.7301	1
8551	6.503	0.969	0.274	0.088	0.199	11111	1.18	39408.6434	3
8558	4.254	0.284	-0.154	-0.321	0.065	11111	1.20	39042.7193	3
8558	4.245	0.283	-0.167	-0.301	0.033	11111	1.21	39377.7435	1
8571	5.436	0.673	0.003	0.026	0.195	11111	1.11	39045.6910	3
8571	5.370	0.670	0.017	0.027	0.194	11111	1.12	39410.6507	3
8571	5.650	0.709	0.036	0.027	0.196	11111	1.11	39411.6714	1
8571	5.556	0.695	0.035	0.028	0.187	11111	1.15	39459.6132	1
8572	7.058	1.413	0.132	-0.084	0.046	11111	1.04	39045.7005	3
8572	6.967	1.330	0.116	-0.136	0.013	11111	1.04	39408.6780	3
8573	4.806	-0.014	-0.019	-0.064	-0.078	11111	1.39	39045.7104	3
8573	4.920	0.007	0.023	-0.030	-0.091	11111	1.42	39408.6548	3
8579	4.358	-0.128	-0.515	-0.927	-0.132	11111	1.02	39050.6606	3
8579	4.303	-0.146	-0.529	-0.936	-0.145	11111	1.02	39408.6897	3
8585	3.803	0.045	0.023	-0.063	-0.039	11111	1.05	39050.6732	3
8585	3.751	0.046	0.026	-0.092	-0.054	11111	1.05	39408.7014	3
8597	3.904	-0.071	-0.158	-0.296	-0.097	11111	1.18	39050.6843	3
8597	3.918	-0.055	-0.164	-0.299	-0.110	11111	1.18	39409.6843	3

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
8613	4.964	0.153	0.019	-0.002	0.017	11111	1.06	39051.6776	3
8613	4.929	0.183	-0.019	-0.046	0.007	11111	1.06	39408.7137	3
8622	4.520	-0.239	-0.665			11100	1.02	38702.5996	3
8622	4.521	-0.232	-0.678			11100	1.01	38702.6539	3
8622	4.531	-0.239	-0.668			11100	1.11	38702.7189	3
8622	4.547	-0.226	-0.663			11100	1.01	38704.6203	3
8622	4.535	-0.216	-0.664			11100	1.06	38704.6916	3
8622	4.515	-0.234	-0.675			11100	1.52	38704.7960	3
8622	4.543	-0.232	-0.656			11100	1.04	38705.6726	3
8622	4.516	-0.239	-0.666	-1.276	-0.169	11111	2.26	38872.9417	3
8622	4.551	-0.228	-0.670	-1.263	-0.177	11111	2.71	38874.9181	3
8622	4.542	-0.236	-0.672	-1.263	-0.184	11111	2.06	38877.9384	3
8622	4.549	-0.224	-0.693	-1.248	-0.185	11111	2.49	38887.8907	3
8622	4.555	-0.218	-0.684	-1.277	-0.181	11111	2.68	38888.8811	3
8622	4.571	-0.221	-0.667	-1.262	-0.160	11111	2.16	38889.9003	3
8622	4.552	-0.223	-0.670	-1.268	-0.164	11111	2.03	38890.9047	3
8622	4.548	-0.228	-0.676	-1.282	-0.175	11111	1.22	38894.9861	3
8622	4.541	-0.214	-0.670	-1.269	-0.160	11111	1.18	38896.9910	3
8622	4.576	-0.235	-0.668	-1.277	-0.159	11111	1.18	38898.9863	3
8622	4.559	-0.206	-0.683	-1.253	-0.193	11111	2.81	38915.8033	3
8622	4.537	-0.230	-0.660	-1.249	-0.187	11111	2.22	38916.8233	3
8622	4.568	-0.219	-0.676	-1.283	-0.183	11111	1.08	38916.9722	3
8622	4.547	-0.226	-0.667	-1.225	-0.180	11111	2.66	38917.8026	3
8622	4.585	-0.220	-0.666	-1.249	-0.186	11111	1.07	38917.9760	3
8622	4.554	-0.235	-0.673	-1.261	-0.170	11111	2.28	38918.8151	3
8622	4.607	-0.230	-0.670	-1.266	-0.177	11111	1.05	38921.9743	3
8622	4.542	-0.224	-0.657	-1.266	-0.177	11111	1.19	38922.9192	1
8622	4.569	-0.224	-0.672	-1.255	-0.175	11111	2.45	38924.7911	3
8622	4.558	-0.224	-0.670	-1.269	-0.170	11111	1.04	38924.9770	3
8622	4.530	-0.245	-0.684	-1.258	-0.174	11111	2.41	38925.7901	3
8622	4.588	-0.210	-0.667	-1.277	-0.169	11111	1.06	38925.9587	3
8622	4.546	-0.222	-0.674	-1.263	-0.167	11111	2.43	38926.7867	3
8622	4.560	-0.233	-0.646	-1.252	-0.187	11111	1.03	38926.9804	3
8622	4.543	-0.229	-0.672	-1.249	-0.189	11111	2.41	38928.7819	3
8622	4.569	-0.204	-0.685	-1.278	-0.178	11111	1.02	38928.9822	3
8622	4.571	-0.230	-0.667	-1.258	-0.172	11111	2.46	38929.7771	3
8622	4.557	-0.241	-0.683	-1.285	-0.166	11111	1.02	38929.9778	3
8622	4.572	-0.198	-0.661	-1.283	-0.181	11111	1.03	39013.8182	1
8622	4.569	-0.236	-0.658	-1.263	-0.180	11111	1.02	39016.7983	3
8622	4.567	-0.224	-0.682	-1.286	-0.169	11111	1.02	39018.7964	3
8622	4.573	-0.228	-0.684	-1.274	-0.193	11111	1.05	39019.8216	3
8622	4.555	-0.221	-0.698	-1.289	-0.168	11111	1.03	39024.7960	3
8622	4.562	-0.221	-0.677	-1.276	-0.169	11111	1.03	39026.7833	3
8622	4.571	-0.221	-0.661	-1.251	-0.191	11111	1.04	39028.7882	3
8622	4.573	-0.219	-0.674	-1.266	-0.172	11111	1.03	39029.7826	3
8622	4.558	-0.230	-0.676	-1.266	-0.177	11111	1.11	39031.6472	3
8622	4.533	-0.225	-0.675	-1.256	-0.178	11111	1.24	39035.5973	1
8622	4.580	-0.212	-0.672	-1.283	-0.162	11111	1.01	39035.7186	1
8622	4.533	-0.235	-0.657	-1.273	-0.172	11111	1.16	39042.5980	3
8622	4.570	-0.224	-0.686	-1.291	-0.166	11111	2.11	39042.9173	3
8622	4.596	-0.215	-0.694	-1.291	-0.155	11111	1.09	39044.7712	3
8622	4.586	-0.212	-0.699	-1.286	-0.172	11111	1.13	39045.6010	3
8622	4.578	-0.219	-0.691	-1.279	-0.168	11111	1.03	39050.6375	3
8622	4.572	-0.229	-0.683	-1.273	-0.166	11111	1.08	39050.7515	3
8622	4.575	-0.225	-0.670	-1.269	-0.157	11111	2.35	39050.9076	3
8622	4.553	-0.255	-0.659	-1.241	-0.189	11111	1.09	39051.5983	3
8622	4.565	-0.231	-0.678	-1.274	-0.172	11111	1.06	39053.6089	3
8622	4.544	-0.221	-0.674	-1.279	-0.173	11111	1.06	39054.6053	3
8622	4.572	-0.223	-0.681	-1.274	-0.167	11111	1.01	39055.6449	3
8622	4.564	-0.223	-0.681	-1.272	-0.178	11111	1.08	39056.5906	3
8622	4.560	-0.215	-0.654	-1.257	-0.171	11111	2.92	39056.9117	3
8622	4.562	-0.217	-0.684	-1.274	-0.185	11111	1.09	39057.5833	3
8622	4.551	-0.238	-0.670	-1.259	-0.182	11111	1.13	39058.5666	3
8622	4.443	-0.214	-0.659	-1.261	-0.172	11111	1.08	39060.5814	3
8622	4.573	-0.204	-0.676	-1.291	-0.154	11111	1.06	39061.5853	3
8622	4.566	-0.233	-0.681	-1.272	-0.163	11111	1.01	39076.6279	3
8622	4.560	-0.225	-0.673	-1.269	-0.173	11111	2.17	39076.8278	3
8622	4.612	-0.157	-0.726	-1.337	-0.160	11111	1.09	39091.6454	1
8622	4.548	-0.229	-0.659	-1.254	-0.150	11111	2.43	39140.6652	3
8622	4.560	-0.223	-0.673	-1.267	-0.178	11111	2.40	39241.9250	3
8622	4.555	-0.218	-0.674	-1.290	-0.149	11111	1.16	39268.9801	3
8622	4.546	-0.222	-0.651	-1.258	-0.183	11111	1.14	39269.9835	3
8622	4.562	-0.216	-0.679	-1.258	-0.170	11111	2.21	39270.8545	3
8622	4.554	-0.233	-0.650	-1.258	-0.167	11111	1.14	39270.9802	3
8622	4.572	-0.232	-0.668	-1.269	-0.177	11111	2.25	39272.8470	3
8622	4.577	-0.212	-0.666	-1.280	-0.186	11111	1.14	39272.9756	3
8622	4.548	-0.257	-0.662	-1.250	-0.175	11111	2.04	39279.8396	3
8622	4.561	-0.225	-0.665	-1.261	-0.170	11111	1.11	39279.9669	3
8622	4.564	-0.232	-0.658	-1.270	-0.177	11111	1.10	39280.9657	3
8622	4.547	-0.232	-0.656	-1.251	-0.173	11111	2.61	39281.8077	3
8622	4.581	-0.207	-0.683	-1.283	-0.176	11111	1.10	39281.9657	3
8622	4.564	-0.220	-0.681	-1.279	-0.161	11111	2.62	39296.7661	3
8622	4.552	-0.229	-0.670	-1.270	-0.156	11111	2.50	39297.7679	3
8622	4.569	-0.217	-0.667	-1.271	-0.174	11111	1.07	39298.9314	1
8622	4.567	-0.222	-0.660	-1.267	-0.162	11111	2.12	39300.7773	3
8622	4.510	-0.234	-0.661	-1.258	-0.165	11111	1.11	39304.8994	1
8622	4.615	-0.196	-0.659	-1.239	-0.155	11111	1.21	39306.8619	1
8622	4.551	-0.211	-0.672	-1.270	-0.184	11111	1.05	39359.7745	1
8622	4.537	-0.217	-0.660	-1.273	-0.153	11111	1.06	39365.7517	1
8622	4.602	-0.220	-0.653	-1.252	-0.144	11111	1.12	39372.7092	3
8622	4.490	-0.248	-0.684	-1.288	-0.186	11111	1.01	39373.8081	1
8622	4.600	-0.223	-0.672	-1.289	-0.167	11111	1.13	39375.6954	1
8622	4.570	-0.221	-0.614	-1.234	-0.196	11111	1.01	39375.7958	1
8622	4.555	-0.208	-0.673	-1.274	-0.172	11111	1.07	39376.7176	3
8622	4.595	-0.213	-0.668	-1.288	-0.157	11111	1.01	39377.7960	1
8622	4.588	-0.216	-0.669	-1.272	-0.176	11111	1.06	39406.7694	1
8622	4.569	-0.223	-0.670	-1.285	-0.157	11111	1.02	39407.7293	1
8622	4.629	-0.200	-0.623	-1.223	-0.162	11111	1.02	39408.6655	3
8622	4.503	-0.240	-0.683	-1.293	-0.184	11111	1.03	39408.7375	3
8622	4.545	-0.218	-0.679	-1.269	-0.180	11111	1.02	39409.6697	3
8622	4.566	-0.222	-0.674	-1.272	-0.189	11111	1.03	39409.7409	3
8622	4.556	-0.221	-0.666	-1.262	-0.192	11111	1.02	39410.7297	3
8622	4.561	-0.213	-0.679	-1.289	-0.161	11111	1.06	39411.7533	1
8622	4.559	-0.225	-0.672	-1.268	-0.175	11111	1.08	39412.6155	1
8622	4.558	-0.213	-0.666	-1.263	-0.186	11111	1.01	39431.6489	1
8622	4.583	-0.170	-0.633	-1.284	-0.195	11111	1.02	39432.5976	1
8622	4.569	-0.200	-0.671	-1.274	-0.191	11111	1.02	39440.6483	1
8622	4.557	-0.222	-0.666	-1.269	-0.178	11111	1.01	39441.6187	1
8622	4.590	-0.217	-0.672	-1.278	-0.176	11111	1.04	39442.5585	1
8622	4.557	-0.214	-0.673	-1.273	-0.189	11111	1.04	39443.5541	1
8622	0.000	-0.205	-0.682	-1.275	-0.169	01111	1.27	39448.7191	1
8622	4.561	-0.205	-0.662	0.000	0.000	11100	1.17	39451.6857	1
8622	4.558	-0.192	-0.700	-1.298	-0.188	11111	1.01	39459.5466	1
8622	4.570	-0.227	-0.668	-1.262	-0.184	11111	1.03	39461.5996	1
8622	4.575	-0.241	-0.680	-1.273	-0.170	11111	1.01	39468.5584	1
8622	4.538	-0.224	-0.684	-1.269	-0.197	11111	1.46	39468.6969	1
8622	4.577	-0.217	-0.680	-1.264	-0.190	11111	1.05	39473.5794	1
8622	4.548	-0.200	-0.685	-1.286	-0.181	11111	1.11	39474.6034	1
8622	4.578	-0.221	-0.684	-1.273	-0.184	11111	1.65	39501.6284	1
8632	6.692	1.290	0.479	0.359	0.275	11111	1.02	39051.6880	3
8632	6.622	1.273	0.481	0.329	0.280	11111	1.03	39408.7268	3
8634	3.248	-0.107	-0.138			11100	1.15	38705.6867	3
8634	3.279	-0.066	-0.190	-0.267	-0.114	11111	1.08	39409.6966	3
8641	4.801	0.000	0.013	-0.015	-0.019	11111	1.00	39052.6711	3
8641	4.788	0.006	0.003	-0.002	-0.060	11111	1.00	39409.7116	3
8649	6.990	1.371	0.567	0.426	0.290	11111	1.60	39052.6800	3
8649	6.993	1.408	0.566	0.426	0.306	11111	1.62	39410.6757	3
8650	4.210	0.702	0.075	-0.044	0.114	11111	1.03	39054.6270	3
8650	4.199	0.681	0.089	-0.039	0.126	11111	1.00	39411.6940	1
8665	4.873	0.330	-0.207	-0.431	0.037	11111	1.09	39054.6369	3
8665	4.858	0.317	-0.191	-0.419	0.033	11111	1.07	39411.7070	1
8667	5.652	0.972	0.215	0.124	0.141	11111	1.02	39054.6464	3
8667	5.625	0.970	0.240	0.121	0.144	11111	1.02	39411.7181	1
8679	6.792	1.703	0.645	0.577	0.397	11111	1.46	39054.6571	3
8679	6.787	1.696	0.678	0.604	0.396	11111	1.45	39410.6882	3
8684	4.976	0.806	0.102			11100	1.01	38689.6854	1
8684	4.911	0.783	0.152	-0.038	0.137	11111	1.03	39411.7298	1
8694	5.163	0.948	0.270	0.127	0.139	11111	1.20	39054.6687	3
8694	5.132	0.957	0.273	0.127	0.144	11111	1.22	39411.7420	1
8698	6.537	1.609	0.499	0.448	0.356	11111	1.31	39054.6787	3
8698	6.482	1.617	0.528	0.456	0.346	11111	1.43	39431.7090	1
8702	6.869	1.254	0.460	0.326	0.232	11111	1.58	39054.7203	3
8702	6.775	1.221	0.478	0.332	0.234	11111	1.57	39459.5671	1
8709	3.361	0.063	0.066	0.084	-0.025	11111	1.54	39054.7084	3
8709	3.367	0.081	0.074	0.099	-0.005	11111	1.50	39410.7017	3
8717	4.924	0.017	0.017	-0.014	-0.081	11111	1.15	39054.7308	3
8717	4.864	0.011	0.016	0.016	-0.047	11111	1.11	39432.6695	1
8729	6.438	0.525	-0.058	-0.312	0.038	11111	1.02	39055.6821	3
8729	6.415	0.510	-0.042	-0.306	0.035	11111	1.04	39431.6845	1
8729	6.404	0.501	-0.084	-0.312	0.043	11111	1.02	39432.6456	1
8748	7.198	1.551	0.635	0.511	0.292	11111	1.61	39055.6711	3
8748	7.095	1.497	0.648	0.526	0.331	11111	1.61	39459.5801	1
8752	7.412	1.220	0.211	0.315	0.319	11111	1.10	39055.6929	3
8752	7.608	1.296	0.263	0.286	0.342	11111	1.14	39411.7678	1
8762	3.396	0.140	0.402			11100	1.06	38705.6986	3
8762	3.461	-0.118	-0.401			11100	1.13	38752.6025	3
8762	3.467	-0.132	-0.426	-0.651	-0.127	11111	1.05	39408.7636	3
8762	3.507	-0.113	-0.401	-0.635	-0.116	11111	1.04	39461.6142	1
8773	4.341	-0.102	-0.291			11100	1.40	38752.6131	3
8773	4.364	-0.116	-0.331	-0.631	-0.110	11111	1.15	39053.7106	3
8775	5.329	1.635	0.678	0.749	0.563	11111	1.00	39019.7907	3
8775	5.335	1.668	0.673	0.722	0.572	11111	1.02	39053.7199	3
8780	6.273	0.917	0.258	0.122	0.130	11111	1.05	39019.8011	3
8780	6.333	0.960	0.248	0.104	0.141	11111	1.05	39057.6902	3
8781	2.480	-0.032	-0.040			11100	1.05	38689.6945	1
8781	2.470	-0.011	-0.037	0.004	-0.064	11111	1.06	39057.7004	3
8781	2.424	-0.031	-0.027	0.015	-0.031	11111	1.15	39298.9448	1
8795	7.294	1.700	0.667	0.620	0.379	11111	1.10	39019.8023	3
8795	7.356	1.700	0.659	0.607	0.422	11111	1.11	39057.7105	3
8796	6.912	1.214	0.231	0.095	0.200	11111	1.01	39019.8006	3
8796	6.935	1.229	0.226	0.088	0.221	11111	1.02	39059.6982	3
8797	4.671	-0.165	-0.633			11100	1.62	38870.9993	1
8797	4.749	-0.154	-0.603	-1.098	-0.145	11111	1.13	39059.7089	3
8808	6.193	-0.069	-0.385	-0.762	-0.138	11111	1.17	39019.8119	3
8808	6.235	-0.082	-0.384	-0.792	-0.136	11111	1.17	39060.6964	3
8819	5.585	0.639	0.047	-0.111	0.080	11111	1.36	39025.7837	3
8819	5.650	0.655	0.058	-0.105	0.067	11111	1.37	39060.7078	3
8819	5.536	0.626	0.038	-0.133	0.071	11111	1.39	39408.7776	3

TABLE 7 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 40

B.S.	40	40-45	37-40	35-40	33-35	WTS	AM	J.D.	LS
8830	4.958	0.220	-0.094	-0.217	0.024	11111	1.05	39076.6541	3
8830	4.924	0.212	-0.090	-0.212	0.005	11111	1.07	39409.7656	3
8832	7.129	0.985	0.359	0.006	0.086	11111	2.10	38887.9072	3
8832	7.153	1.006	0.334	-0.007	0.094	11111	2.20	38888.8969	3
8832	7.173	1.006	0.358	0.010	0.079	11111	1.97	38889.9132	3
8832	7.158	0.952	0.360	-0.026	0.115	11111	1.99	38915.8400	3
8832	7.135	0.982	0.335	-0.008	0.082	11111	2.02	38916.8345	3
8832	7.142	0.983	0.364	-0.012	0.080	11111	2.21	38917.8171	3
8832	7.165	0.971	0.328	0.018	0.097	11111	1.17	38917.9864	3
8832	7.168	1.001	0.338	-0.007	0.075	11111	2.05	38918.8267	3
8832	7.166	0.991	0.348	-0.007	0.086	11111	1.28	38922.9318	1
8832	7.176	0.977	0.342	0.019	0.042	11111	2.02	38924.8135	3
8832	7.142	0.965	0.338	-0.005	0.085	11111	1.14	38924.9860	3
8832	7.151	1.014	0.347	-0.015	0.083	11111	2.14	38925.8008	3
8832	7.198	0.990	0.342	0.005	0.063	11111	1.16	38925.9688	3
8832	7.132	0.982	0.367	0.014	0.054	11111	2.11	38926.8004	3
8832	7.154	0.982	0.242	-0.054	0.152	11111	1.13	38926.9890	3
8832	7.162	0.982	0.333	0.006	0.050	11111	2.10	38928.7953	3
8832	7.182	0.996	0.329	-0.016	0.103	11111	1.14	38928.9731	3
8832	7.150	0.972	0.333	-0.011	0.091	11111	2.14	38929.7893	3
8832	7.163	0.988	0.326	0.001	0.078	11111	1.15	38929.9694	3
8832	7.145	0.938	0.371	0.046	0.086	11111	1.13	39013.8570	1
8832	7.161	0.993	0.328	-0.011	0.096	11111	1.11	39016.8212	3
8832	7.158	0.979	0.358	0.016	0.080	11111	1.11	39018.8270	3
8832	7.163	0.979	0.369	0.030	0.075	11111	1.13	39024.8226	3
8832	7.159	0.993	0.343	0.000	0.084	11111	1.21	39031.6581	3
8832	7.132	0.973	0.333	0.010	0.066	11111	1.33	39035.6080	1
8832	7.188	0.988	0.347	-0.001	0.089	11111	1.10	39035.7302	1
8832	7.153	0.989	0.325	0.005	0.059	11111	1.26	39042.6090	3
8832	7.192	1.008	0.325	-0.011	0.101	11111	1.23	39045.6111	3
8832	0.000	0.013	0.349	0.006	0.065	00111	1.13	39050.6487	3
8832	7.150	0.983	0.354	0.024	0.088	11111	1.19	39051.6100	3
8832	7.134	0.984	0.358	0.026	0.073	11111	1.16	39053.6231	3
8832	7.156	0.988	0.346	0.017	0.061	11111	1.17	39054.6160	3
8832	7.182	0.995	0.359	0.004	0.093	11111	1.11	39055.6579	3
8832	7.157	0.991	0.344	0.007	0.069	11111	1.18	39056.6017	3
8832	7.159	0.982	0.345	-0.007	0.089	11111	2.04	39056.9221	3
8832	7.185	0.993	0.346	0.005	0.078	11111	1.19	39057.5932	3
8832	7.167	1.000	0.344	0.009	0.078	11111	1.23	39058.5779	3
8832	7.097	1.000	0.343	0.010	0.081	11111	1.18	39060.5924	3
8832	7.142	1.002	0.321	-0.012	0.094	11111	1.17	39061.5956	3
8832	7.169	0.987	0.359	0.012	0.050	11111	1.10	39076.6420	3
8832	7.160	0.982	0.342	0.002	0.086	11111	2.11	39241.9371	3
8832	7.146	0.972	0.354	0.029	0.065	11111	2.00	39270.8668	3
8832	7.174	1.019	0.333	0.005	0.069	11111	2.04	39272.8579	3
8832	7.170	0.990	0.341	0.011	0.075	11111	1.22	39279.9756	3
8832	7.167	0.970	0.360	0.010	0.069	11111	1.21	39280.9746	3
8832	7.154	0.993	0.347	0.008	0.074	11111	2.24	39281.8186	3
8832	7.176	0.995	0.334	-0.020	0.094	11111	1.20	39281.9746	3
8832	7.146	0.980	0.351	0.018	0.064	11111	2.25	39296.7771	3
8832	7.165	0.992	0.336	0.006	0.064	11111	2.19	39297.7784	3
8832	7.165	0.973	0.345	0.020	0.085	11111	1.99	39300.7864	3
8832	7.157	0.995	0.335	0.010	0.053	11111	1.12	39300.9711	3
8832	7.237	1.002	0.326	0.001	0.054	11111	1.21	39304.9083	1
8832	7.167	0.985	0.344	0.022	0.101	11111	1.16	39359.7856	1
8832	7.145	0.990	0.354	0.014	0.089	11111	1.17	39365.7612	1
8832	7.159	1.016	0.254	-0.058	0.083	11111	1.21	39375.7147	1
8832	7.224	1.004	0.348	0.014	0.059	11111	1.10	39377.8064	1
8832	7.188	0.996	0.349	0.034	0.071	11111	1.13	39406.7845	1
8832	7.173	0.980	0.375	0.032	0.069	11111	1.10	39407.7413	1
8832	7.116	0.976	0.333	-0.008	0.049	11111	1.11	39408.7487	3
8832	7.172	0.985	0.360	0.019	0.103	11111	1.11	39409.7536	3
8832	7.170	0.996	0.356	0.023	0.070	11111	1.15	39411.7798	1
8832	7.158	0.997	0.350	0.022	0.063	11111	1.10	39431.6647	1
8832	7.155	0.954	0.319	0.013	0.067	11111	1.11	39432.6223	1
8832	7.171	0.982	0.335	0.004	0.068	11111	1.11	39440.6677	1
8832	7.173	0.974	0.342	0.005	0.080	11111	1.35	39441.7724	1
8832	7.168	0.986	0.341	0.006	0.072	11111	1.23	39443.7306	1
8832	7.130	0.969	0.368	0.022	0.063	11111	1.15	39459.6525	1
8832	7.158	1.002	0.341	0.004	0.079	11111	1.39	39468.7101	1
8832	7.171	0.991	0.332	0.004	0.062	11111	1.50	39501.6414	1
8834	6.948	1.654	0.654	0.615	0.401	11111	1.32	39025.8088	3
8834	6.942	1.662	0.633	0.574	0.423	11111	1.41	39300.9510	3
8841	5.976	1.017	0.336	0.200	0.151	11111	1.34	39026.7568	3
8841	6.040	1.024	0.334	0.214	0.102	11111	1.34	39359.8547	1
8852	5.057	0.736	0.068	-0.093	0.217	11111	1.15	39026.7747	3
8852	5.120	0.760	0.056	-0.126	0.219	11111	1.16	39359.8861	1
8858	4.175	-0.127	-0.383	-0.708	-0.138	11111	1.34	39026.7659	3
8858	4.237	-0.130	-0.373	-0.673	-0.145	11111	1.34	39359.8644	1
8860	7.683	1.702	0.668	0.660	0.476	11111	1.05	39025.7955	3
8860	7.727	1.713	0.671	0.706	0.453	11111	1.04	39028.7685	3
8860	7.708	1.703	0.687	0.685	0.461	11111	1.10	39298.9559	1
8872	6.037	0.695	0.054	-0.127	0.105	11111	1.23	39028.7787	3
8872	5.988	0.672	0.049	-0.150	0.114	11111	1.29	39300.9408	3
8880	4.830	0.138	0.045			11100	1.07	38705.7109	3
8880	4.742	0.107	0.009	-0.007	-0.002	11111	1.01	39373.8292	1
8892	5.664	0.988	0.255	0.086	0.216	11111	1.68	39029.7411	3
8892	5.650	0.968	0.239	0.101	0.183	11111	1.67	39373.8497	1
8905	5.282	0.415	-0.129	-0.288	0.075	11111	1.01	39029.7627	3
8905	5.206	0.411	-0.165	-0.334	0.072	11111	1.02	39373.8388	1
8906	6.969	1.598	0.632	0.509	0.346	11111	1.68	39029.7527	3
8906	7.119	1.610	0.628	0.576	0.278	11111	1.70	39375.8468	1
8911	5.017	0.065	0.012	-0.148	-0.029	11111	1.17	39031.7676	3
8911	5.020	0.097	-0.026	-0.203	0.011	11111	1.20	39375.8570	1
8916	5.998	0.981	0.320	0.203	0.133	11111	1.12	39031.7765	3
8916	6.034	1.006	0.309	0.172	0.143	11111	1.12	39377.8284	1
8923	6.005	0.806	0.171	0.033	0.117	11111	1.07	39031.7858	3
8923	6.032	0.837	0.155	0.016	0.122	11111	1.07	39377.8391	1
8926	4.720	-0.127	-0.408	-0.805	-0.145	11111	1.12	39042.7552	3
8926	4.678	-0.132	-0.431	-0.814	-0.158	11111	1.11	39410.7428	3
8961	5.214	0.808	0.139	-0.064	0.185	11111	1.04	39042.7652	3
8961	5.264	0.818	0.125	-0.063	0.186	11111	1.05	39409.7770	3
8965	4.194	-0.083	-0.258	-0.352	-0.091	11111	1.02	39045.7279	3
8965	4.158	-0.084	-0.235	-0.353	-0.089	11111	1.03	39468.6062	1
8969	4.794	0.342	-0.181			11100	1.21	38702.6102	3
8969	4.810	0.347	-0.190			11100	1.12	38702.6678	3
8969	4.816	0.357	-0.196			11100	1.19	38702.7312	3
8969	4.796	0.322	-0.164			11100	2.19	38702.8440	3
8969	4.825	0.360	-0.209			11100	1.16	38704.6293	3
8969	4.822	0.367	-0.189			11100	1.14	38704.7014	3
8969	4.791	0.339	-0.211			11100	1.74	38704.8113	3
8969	4.850	0.341	-0.175	-0.393	0.037	11111	1.12	39045.7366	3
8969	4.836	0.363	-0.174	-0.422	0.042	11111	1.16	39468.6185	1
8974	4.881	0.962	0.320	0.156	0.113	11111	1.41	39045.7462	3
8974	4.820	0.947	0.333	0.140	0.114	11111	1.44	39459.6670	1
8976	4.034	-0.055	-0.114	-0.293	-0.084	11111	1.02	39050.7078	3
8976	4.021	-0.060	-0.087	-0.250	-0.099	11111	1.18	39468.6855	1
8982	5.992	0.651	-0.018	-0.082	0.183	11111	1.57	39050.7273	3
8982	6.002	0.649	-0.017	-0.095	0.186	11111	1.71	39468.6358	1
8984	4.783	0.163	0.012	-0.065	-0.014	11111	1.17	39051.7103	3
8984	4.780	0.171	0.023	-0.071	-0.006	11111	1.40	39468.6729	1
8988	4.416	-0.046	-0.021	-0.185	-0.117	11111	1.47	39051.7206	3
8988	4.423	0.000	-0.044	-0.198	-0.069	11111	1.65	39468.6474	1
8997	6.356	0.800	0.128	-0.041	0.123	11111	1.00	39051.7335	3
8997	6.335	0.785	0.126	-0.023	0.132	11111	1.01	39432.7049	1
9045	6.262	0.870	0.185	0.404	0.459	11111	1.11	39052.7000	3
9045	6.193	0.709	0.146	0.357	0.421	11111	1.16	39459.6824	1
9064	7.314	1.505	0.485	0.463	0.351	11111	1.01	39052.7097	3
9064	7.279	1.499	0.486	0.499	0.336	11111	1.03	39432.7225	1
9071	4.759	-0.132	-0.545	-1.039	-0.136	11111	1.09	39052.7334	3
9071	4.755	-0.142	-0.550	-1.031	-0.146	11111	1.09	39461.6276	1
9072	4.581	0.258	-0.107	-0.236	0.053	11111	1.11	39052.7438	3
9072	4.590	0.274	-0.149	-0.261	0.044	11111	1.12	39440.6925	1
9089	7.174	1.503	0.656	0.745	0.543	11111	1.29	39052.7536	3
9089	7.114	1.523	0.605	0.654	0.539	11111	1.41	39468.6598	1
9098	4.489	-0.068	-0.122	-0.070	-0.073	11111	1.59	39013.8712	1
9098	4.442	-0.074	-0.068	-0.079	-0.061	11111	1.57	39051.7563	3
9098	4.516	-0.014	-0.114	-0.099	-0.069	11111	1.95	39448.7403	1

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
3	4.882	0.792	0.510	0.417	1.355	11111	1.27	38641.8624	1
3	4.892	0.876	0.529	0.443	1.386	11111	1.33	39013.8833	1
3	4.886	0.792	0.502	0.426	1.355	11111	1.30	39051.7665	3
15	2.061	-0.043	-0.017	-0.073	-0.177	11111	1.00	39016.8335	3
15	2.077	-0.050	-0.029	-0.076	-0.152	11111	1.02	39051.7758	3
21	2.368	0.299	0.167	0.155	0.367	11111	1.16	38702.6345	3
21	2.350	0.308	0.190	0.141	0.386	11111	1.12	38702.6810	3
21	2.392	0.318	0.188	0.156	0.378	11111	1.15	38702.7514	3
21	2.373	0.317	0.163	0.153	0.368	11111	1.15	38704.6385	3
21	2.361	0.325	0.184	0.132	0.361	11111	1.14	38704.7302	3
21	2.381	0.313	0.193	0.141	0.383	11111	1.13	38708.7120	3
21	2.382	0.302	0.180	0.143	0.382	11111	1.27	39448.7669	1
21	2.400	0.299	0.183	0.151	0.402	11111	1.24	39457.7323	1
27	5.116	0.363	0.215	0.194	0.421	11111	1.03	39016.8436	3
27	5.139	0.387	0.251	0.197	0.441	11111	1.03	39053.7312	3
33	5.023	0.414	0.248	0.239	0.529	11111	1.51	39016.8539	3
33	5.028	0.418	0.252	0.229	0.557	11111	1.50	39053.7407	3
39	2.796	-0.113	-0.074	-0.099	-0.322	11111	1.28	38689.6272	1
39	2.788	-0.130	-0.071	-0.096	-0.316	11111	1.10	38702.6437	3
39	2.790	-0.117	-0.075	-0.102	-0.312	11111	1.05	38702.6896	3
39	2.809	-0.110	-0.069	-0.104	-0.317	11111	1.09	38702.7424	3
39	2.810	-0.108	-0.078	-0.091	-0.333	11111	1.76	38702.8588	3
39	2.780	-0.117	-0.084	-0.103	-0.294	11111	1.06	38704.6656	3
39	2.818	-0.103	-0.073	-0.105	-0.315	11111	1.09	38704.7388	3
39	2.791	-0.118	-0.074	-0.083	-0.327	11111	1.42	38704.8201	3
39	2.810	-0.155	-0.092	-0.108	-0.289	11111	1.08	39440.7209	1
39	2.836	-0.142	-0.091	-0.097	-0.283	11111	1.25	39448.7540	1
45	5.206	1.269	0.762	0.644	2.304	11111	1.03	38641.8459	1
45	5.227	1.268	0.754	0.678	2.325	11111	2.52	38890.9757	3
45	5.233	1.271	0.753	0.663	2.337	11111	2.25	38921.9012	3
45	5.206	1.258	0.736	0.685	2.343	11111	1.02	39019.8235	3
45	5.229	1.264	0.737	0.661	2.320	11111	1.03	39025.8386	3
45	5.217	1.249	0.739	0.672	2.318	11111	1.03	39026.8013	3
45	5.247	1.276	0.737	0.670	2.326	11111	1.03	39028.8181	3
45	5.229	1.269	0.747	0.668	2.335	11111	1.03	39029.7924	3
45	5.209	1.270	0.746	0.664	2.306	11111	2.16	39042.9595	3
45	5.201	1.258	0.737	0.668	2.320	11111	1.03	39044.7814	3
45	5.185	1.244	0.752	0.662	2.320	11111	1.02	39050.7408	3
45	5.180	1.243	0.748	0.666	2.321	11111	1.02	39051.7452	3
45	5.215	1.266	0.763	0.676	2.332	11111	1.03	39053.7612	3
45	5.177	1.253	0.754	0.666	2.299	11111	1.03	39091.6585	1
45	5.174	1.234	0.723	0.661	2.316	11111	2.48	39140.7046	3
45	5.210	1.262	0.747	0.655	2.294	11111	2.27	39280.9174	3
45	5.193	1.281	0.752	0.675	2.303	11111	1.16	39298.9789	1
45	5.201	1.266	0.738	0.657	2.306	11111	1.09	39304.9882	1
45	5.220	1.254	0.747	0.670	2.315	11111	1.03	39359.8754	1
45	5.244	1.254	0.743	0.659	2.298	11111	1.09	39365.8187	1
45	5.153	1.237	0.724	0.653	2.282	11111	1.05	39373.8183	1
45	5.190	1.270	0.726	0.694	2.329	11111	1.03	39375.8315	1
45	5.238	1.257	0.733	0.681	2.326	11111	1.03	39376.8275	3
45	5.214	1.278	0.761	0.667	2.300	11111	1.08	39432.7549	1
45	5.223	1.271	0.751	0.676	2.310	11111	1.03	39451.6632	1
45	5.218	1.247	0.739	0.684	2.337	11111	1.03	39473.5979	1
45	5.169	1.240	0.737	0.670	2.316	11111	1.05	39474.6260	1
45	5.192	1.226	0.739	0.649	2.344	11111	1.04	39487.5812	3
45	5.183	1.215	0.726	0.667	2.346	11111	1.14	39488.6264	3
48	4.934	1.321	0.773	0.771	2.573	11111	1.61	39019.8352	3
48	4.872	1.288	0.794	0.735	2.468	11111	1.61	39053.7513	3
48	4.900	1.289	0.763	0.739	2.477	11111	1.67	39406.8089	1
63	4.628	0.016	0.067	0.001	0.055	11111	1.02	39016.8674	3
63	4.663	0.072	0.068	-0.007	0.061	11111	1.01	39055.7209	3
68	4.535	0.048	0.033	0.015	0.079	11111	1.01	39019.8469	3
68	4.544	0.035	0.038	0.015	0.099	11111	1.00	39055.7312	3
74	3.851	0.892	0.565	0.524	1.709	11111	1.35	39026.8343	3
74	3.880	0.913	0.581	0.502	1.710	11111	1.34	39055.7434	3
74	3.859	0.887	0.556	0.529	1.692	11111	1.41	39406.8232	1
123	4.703	-0.062	-0.038	-0.047	-0.110	11111	1.08	39026.8444	3
123	4.742	-0.051	-0.007	-0.056	-0.127	11111	1.08	39055.7599	3
130	4.208	0.148	0.068	0.132	0.075	11111	1.16	39028.8359	3
130	4.247	0.157	0.098	0.107	0.065	11111	1.16	39056.7248	3
153	3.686	-0.109	-0.064	-0.087	-0.265	11111	1.08	39028.8472	3
153	3.699	-0.112	-0.059	-0.087	-0.269	11111	1.07	39056.7366	3
154	4.372	-0.046	-0.019	-0.078	-0.193	11111	1.00	39029.8171	3
154	4.379	-0.070	-0.027	-0.040	-0.162	11111	1.00	39056.7473	3
163	4.549	0.671	0.403	0.410	1.078	11111	1.00	39029.8273	3
163	4.587	0.663	0.408	0.408	1.079	11111	1.00	39057.7307	3
165	3.642	0.990	0.653	0.520	1.858	11111	1.01	39029.8397	3
165	3.664	0.990	0.666	0.509	1.836	11111	1.00	39057.7401	3
168	2.524	0.834	0.532	0.529	1.650	11111	1.10	39029.8489	3
168	2.534	0.823	0.539	0.536	1.644	11111	1.09	39057.7495	3
179	4.838	-0.015	0.003	-0.058	-0.175	11111	1.06	39031.7964	3
179	4.827	-0.044	-0.052	-0.042	-0.169	11111	1.06	39059.7201	3
188	2.355	0.794	0.491	0.459	1.394	11111	1.58	39031.8059	3
188	2.368	0.780	0.523	0.449	1.387	11111	1.57	39060.7331	3
193	4.584	0.028	0.011	-0.001	-0.092	11111	1.04	39042.7885	3
193	4.603	0.032	0.042	-0.027	-0.109	11111	1.04	39060.7524	3
194	0.000	0.000	0.000	0.433	1.330	00011	1.37	39031.8148	3
194	5.048	0.792	0.489	0.436	1.336	11111	1.37	39042.7780	3
194	5.075	0.784	0.500	0.437	1.345	11111	1.37	39060.7424	3
194	5.013	0.769	0.476	0.446	1.336	11111	1.42	39372.8437	3
215	4.465	0.919	0.583	0.470	1.458	11111	1.01	39042.8003	3
215	4.426	0.881	0.566	0.499	1.492	11111	1.01	39061.7332	3
219	3.606	0.509	0.285	0.260	0.679	11111	1.11	39045.7587	3
219	3.624	0.538	0.317	0.238	0.642	11111	1.11	39061.7431	3
219	3.600	0.489	0.259	0.260	0.665	11111	1.12	39372.8532	3
219	3.551	0.496	0.289	0.251	0.642	11111	1.10	39408.7924	3
224	4.884	1.217	0.765	0.610	2.238	11111	1.11	39045.7674	3
224	4.868	1.215	0.781	0.592	2.226	11111	1.12	39076.6688	3
226	4.550	-0.089	-0.058	-0.056	-0.175	11111	1.01	39045.7775	3
226	4.520	-0.078	-0.051	-0.060	-0.182	11111	1.02	39076.6807	3
226	4.558	-0.057	-0.052	-0.054	-0.180	11111	1.03	39365.8731	1
244	4.955	0.442	0.261	0.265	0.652	11111	1.14	39045.7872	3
244	4.923	0.463	0.266	0.251	0.643	11111	1.14	39076.7028	3
248	5.168	1.223	0.760	0.662	2.352	11111	1.23	38752.6245	3
248	5.211	1.276	0.829	0.643	2.321	11111	1.22	39365.8862	1
248	5.189	1.253	0.798	0.649	2.315	11111	1.24	39406.8364	1
253	5.129	0.923	0.587	0.514	1.701	11111	1.12	39050.7649	3
253	5.138	0.941	0.603	0.519	1.695	11111	1.12	39365.8969	1
264	2.289	0.065	0.016	-0.017	-0.181	11111	1.13	39050.7865	3
264	2.285	0.076	-0.021	0.004	-0.155	11111	1.14	39372.8635	3
264	2.261	0.082	0.001	0.010	-0.154	11111	1.13	39407.8037	1
265	4.860	0.739	0.454	0.423	1.218	11111	1.12	39050.7761	3
265	4.860	0.750	0.454	0.419	1.219	11111	1.12	39365.9070	1
269	3.931	0.121	0.072	0.026	0.154	11111	1.01	39050.7970	3
269	3.906	0.115	0.043	0.037	0.153	11111	1.01	39372.8843	3
271	4.624	0.705	0.399	0.424	1.232	11111	1.05	38752.6377	3
271	4.628	0.722	0.451	0.402	1.205	11111	1.01	39372.8946	3
285	4.545	0.901	0.580	0.528	1.759	11111	1.68	39054.7651	3
294	4.525	0.790	0.408	0.446	1.259	11111	1.11	39013.8972	1
294	4.508	0.722	0.454	0.449	1.258	11111	1.10	39054.7539	3
334	3.769	0.893	0.578	0.486	1.608	11111	1.36	39054.7753	3
334	3.762	0.889	0.565	0.465	1.612	11111	1.36	39410.7930	3
335	4.247	-0.003	0.006	-0.025	-0.107	11111	1.03	39018.8773	3
335	4.272	0.012	0.001	-0.033	-0.098	11111	1.04	39054.7850	3
337	2.504	1.277	0.792	0.658	2.361	11111	1.01	39018.8890	3
337	2.532	1.274	0.804	0.665	2.373	11111	1.00	39055.7729	3
343	4.383	0.141	0.072	0.068	0.225	11111	1.09	39019.8397	3
343	4.415	0.124	0.101	0.048	0.219	11111	1.08	39056.7619	3
351	4.893	0.753	0.463	0.472	1.360	11111	1.03	39019.8500	3
351	4.923	0.741	0.488	0.471	1.380	11111	1.02	39056.7730	3
352	4.770	0.854	0.531	0.474	1.471	11111	1.00	39019.8626	3
352	4.814	0.821	0.536	0.463	1.480	11111	1.00	39056.7823	3
360	4.916	0.747	0.473	0.465	1.420	11111	1.01	39026.8546	3
360	4.949	0.760	0.497	0.456	1.404	11111	1.01	39057.7600	3
383	4.793	0.026	0.027	-0.008	0.025	11111	1.01	39026.8643	3
383	4.816	0.037	0.050	-0.004	0.039	11111	1.00	39057.7736	3
390	5.132	0.788	0.502	0.453	1.467	11111	1.03	39026.8753	3
390	5.170	0.802	0.529	0.471	1.485	11111	1.03	39057.7828	3
399	4.988	0.798	0.499	0.465	1.432	11111	1.23	39028.8598	3
399	5.037	0.809	0.537	0.435	1.416	11111	1.23	39060.7635	3
402	3.900	0.831	0.510	0.464	1.425	11111	1.33	39028.8722	3
402	3.958	0.824	0.526	0.453	1.407	11111	1.32	39060.7735	3
403	2.695	0.090	0.080	0.043	0.149	11111	1.13	39029.8600	3
403	2.723	0.089	0.082	0.032	0.168	11111	1.13	39061.7564	3
403	2.677	0.099	0.062	0.033	0.134	11111	1.15	39408.8637	3
417	4.932	0.348	0.214	0.199	0.503	11111	1.03	39029.8698	3
417	4.958	0.382	0.213	0.183	0.487	11111	1.03	39061.7664	3
424	2.079	0.444	0.298	0.251	0.690	11111	1.82	39018.8417	3
424	2.136	0.494	0.300	0.269	0.705	11111	1.81	39408.8770	3
424	2.169	0.487	0.328	0.260	0.740	11111	1.82	39461.7482	1
434	5.239	1.115	0.704	0.564	1.980	11111	1.13	39045.8373	3
434	5.240	1.107	0.720	0.553	1.953	11111	1.12	39061.7773	3
437	3.844	0.709	0.426	0.439	1.271	11111	1.05	39025.8657	3
437	3.871	0.728	0.441	0.427	1.262	11111	1.05	39076.7357	3
442	4.925	0.734	0.451	0.454	1.302	11111	1.12	39025.8760	3
442	4.921	0.752	0.464	0.429	1.293	11111	1.13	39076.7556	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
458	4.272	0.441	0.275	0.226	0.580	11111	1.04	38641.8720	1
458	4.223	0.422	0.258	0.226	0.597	11111	1.03	38708.7760	3
458	4.249	0.443	0.275	0.242	0.620	11111	1.03	39359.9215	1
458	4.194	0.423	0.274	0.222	0.594	11111	1.02	39408.8043	3
464	3.920	0.986	0.648	0.485	1.792	11111	1.07	38708.7868	3
464	3.956	0.990	0.657	0.524	1.859	11111	1.04	39359.9442	1
464	3.930	0.988	0.622	0.524	1.813	11111	1.04	39410.8060	3
477	4.967	-0.031	-0.015	-0.041	-0.146	11111	1.01	39025.8869	3
477	4.990	-0.010	0.002	-0.047	-0.152	11111	1.01	39359.9565	1
483	5.140	0.529	0.324	0.290	0.694	11111	1.04	38641.8838	1
483	5.116	0.496	0.294	0.265	0.717	11111	1.02	39044.8069	3
483	5.139	0.520	0.338	0.266	0.754	11111	1.02	39359.9665	1
483	5.064	0.482	0.294	0.257	0.692	11111	1.02	39408.8213	3
489	4.830	1.080	0.689	0.568	1.985	11111	1.14	39045.8467	3
489	4.822	1.099	0.691	0.529	1.941	11111	1.17	39375.8693	1
493	5.494	0.718	0.445	0.319	1.036	11111	1.05	39045.8561	3
493	5.432	0.695	0.442	0.312	0.991	11111	1.04	39375.8814	1
493	5.485	0.709	0.457	0.312	1.028	11111	1.02	39410.8197	3
496	4.141	0.176	0.005	0.001	-0.107	11111	1.05	39044.8243	3
496	4.076	0.148	-0.017	0.033	-0.109	11111	1.06	39375.8933	1
496	4.091	0.173	0.013	0.021	-0.111	11111	1.05	39410.8320	3
509	3.725	0.629	0.382	0.299	0.842	11111	1.51	39044.8356	3
509	3.745	0.620	0.377	0.320	0.866	11111	1.51	39375.9105	1
510	4.511	0.710	0.442	0.427	1.264	11111	1.13	39045.8669	3
510	4.490	0.724	0.447	0.401	1.244	11111	1.20	39376.8445	3
531	4.729	0.270	0.164	0.147	0.378	11111	1.39	39051.7873	3
531	4.725	0.272	0.193	0.145	0.383	11111	1.51	39376.8541	3
539	4.007	0.828	0.506	0.474	1.522	11111	1.37	39051.7963	3
539	3.980	0.810	0.537	0.499	1.550	11111	1.46	39376.8652	3
542	3.357	-0.066	-0.050	-0.074	-0.208	11111	1.17	39051.8065	3
542	3.360	-0.066	-0.048	-0.062	-0.201	11111	1.19	39376.8791	3
544	3.569	0.414	0.262	0.215	0.552	11111	1.01	39052.7805	3
544	3.543	0.409	0.253	0.224	0.545	11111	1.01	39376.8948	3
545	3.891	-0.004	0.006	-0.055	-0.021	11111	1.03	39052.7906	3
545	3.914	0.014	0.018	-0.068	-0.070	11111	1.03	39410.8470	3
549	4.842	0.704	0.455	0.415	1.245	11111	1.15	39052.8090	3
549	4.850	0.705	0.447	0.398	1.232	11111	1.15	39411.8179	1
553	2.725	0.093	0.077	0.031	0.163	11111	1.02	39052.8000	3
553	2.712	0.091	0.065	0.008	0.160	11111	1.02	39411.8288	1
569	4.846	0.215	0.152	0.138	0.350	11111	1.03	39053.7714	3
569	4.869	0.245	0.149	0.106	0.320	11111	1.02	39411.8409	1
575	4.548	0.115	0.079	0.066	0.205	11111	1.28	39053.7814	3
575	4.504	0.120	0.063	0.040	0.204	11111	1.28	39451.7362	1
580	3.986	0.026	0.042	-0.034	0.016	11111	1.30	39053.7906	3
580	3.954	0.005	0.005	-0.016	0.010	11111	1.30	39431.7606	1
590	5.022	-0.012	0.006	-0.021	-0.119	11111	1.08	39053.8010	3
590	4.982	-0.011	-0.020	-0.039	-0.113	11111	1.08	39451.7116	1
595	3.830	0.037	0.021	0.013	0.006	11111	1.22	38786.5968	1
595	3.859	0.055	0.058	-0.074	-0.061	11111	1.26	38708.8224	3
603	2.434	0.947	0.616	0.538	1.533	11111	1.09	38708.8332	3
603	2.414	0.878	0.596	0.520	1.578	11111	1.07	38764.6678	1
617	2.324	0.875	0.546	0.502	1.614	11111	1.22	38641.8360	1
617	2.346	0.882	0.575	0.475	1.558	11111	1.01	38641.9496	1
617	2.319	0.849	0.561	0.494	1.611	11111	1.02	38751.6205	3
617	2.296	0.857	0.549	0.479	1.562	11111	1.07	38752.5797	3
617	2.318	0.884	0.542	0.492	1.604	11111	1.01	38764.6101	1
617	2.337	0.866	0.534	0.473	1.559	11111	1.03	38786.5794	1
617	2.287	0.834	0.501	0.461	1.558	11111	1.03	38789.5692	1
617	2.308	0.860	0.521	0.487	1.603	11111	1.04	38791.5702	1
617	2.332	0.877	0.561	0.482	1.581	11111	2.40	39027.6785	3
617	2.324	0.864	0.553	0.489	1.587	11111	1.02	39034.8395	1
617	2.340	0.916	0.566	0.481	1.585	11111	1.02	39042.8183	3
617	2.328	0.897	0.566	0.488	1.575	11111	1.02	39046.8457	1
617	2.340	0.903	0.570	0.462	1.566	11111	1.05	39052.7692	3
617	2.333	0.887	0.563	0.486	1.577	11111	1.02	39054.7944	3
617	2.335	0.878	0.579	0.491	1.597	11111	1.02	39056.7913	3
617	2.329	0.879	0.571	0.496	1.582	11111	1.02	39057.7922	3
617	2.356	0.859	0.527	0.512	1.601	11111	1.01	39059.7911	3
617	2.383	0.886	0.577	0.490	1.590	11111	1.01	39060.7856	3
617	2.328	0.902	0.567	0.486	1.593	11111	1.01	39061.7867	3
617	2.315	0.873	0.556	0.487	1.596	11111	1.04	39076.7143	3
617	2.304	0.854	0.540	0.486	1.588	11111	1.06	39084.7836	1
617	2.338	0.845	0.523	0.503	1.591	11111	1.02	39135.6030	1
617	2.305	0.837	0.516	0.490	1.578	11111	1.02	39138.5672	3
617	2.314	0.851	0.544	0.506	1.586	11111	2.45	39138.7921	3
617	2.317	0.858	0.554	0.476	1.575	11111	1.01	39139.5828	3
617	2.332	0.888	0.576	0.469	1.575	11111	2.83	39139.8009	3
617	2.293	0.840	0.539	0.478	1.597	11111	1.01	39140.5688	3
617	2.347	0.866	0.541	0.493	1.592	11111	1.03	39147.5899	3
617	2.321	0.869	0.555	0.481	1.594	11111	2.43	39147.7665	3
617	2.308	0.859	0.534	0.467	1.581	11111	1.02	39148.5745	3
617	2.333	0.877	0.560	0.497	1.601	11111	2.32	39148.7597	3
617	2.216	0.836	0.535	0.489	1.595	01111	1.06	39150.6028	3
617	2.325	0.878	0.553	0.482	1.581	11111	1.02	39151.5706	3
617	2.308	0.886	0.562	0.481	1.573	11111	1.04	39365.9176	1
617	2.293	0.888	0.553	0.467	1.557	11111	1.02	39372.9269	3
617	2.338	0.906	0.566	0.453	1.543	11111	1.01	39375.9240	1
617	2.320	0.882	0.559	0.464	1.566	11111	1.02	39376.9043	3
617	2.302	0.875	0.552	0.483	1.576	11111	1.02	39377.9106	1
617	2.313	0.881	0.558	0.473	1.570	11111	1.02	39406.8748	1
617	2.335	0.901	0.572	0.483	1.582	11111	1.02	39410.8633	3
617	2.306	0.889	0.556	0.487	1.574	11111	1.02	39411.8542	1
617	2.349	0.866	0.539	0.489	1.581	11111	1.01	39431.7870	1
617	2.322	0.880	0.566	0.486	1.576	11111	1.07	39444.8052	1
617	2.332	0.879	0.562	0.482	1.562	11111	1.06	39448.7851	1
617	2.325	0.878	0.560	0.492	1.581	11111	1.01	39457.7156	1
617	2.314	0.877	0.553	0.471	1.564	11111	1.02	39461.7159	1
617	2.338	0.881	0.568	0.476	1.568	11111	1.14	39468.7640	1
617	2.307	0.868	0.537	0.480	1.577	11111	1.17	39469.7707	1
617	2.332	0.868	0.541	0.484	1.572	11111	1.15	39470.7635	1
617	2.343	0.885	0.551	0.462	1.537	11111	1.05	39472.7171	1
617	2.324	0.883	0.551	0.474	1.567	11111	1.07	39473.7223	1
617	2.337	0.904	0.561	0.505	1.612	11111	1.31	39474.7873	1
617	2.325	0.868	0.559	0.487	1.583	11111	1.01	39482.6399	3
617	2.323	0.866	0.558	0.448	1.554	11111	1.03	39487.5940	3
617	2.342	0.877	0.553	0.488	1.571	11111	1.56	39487.7841	3
617	2.313	0.852	0.541	0.499	1.584	11111	1.04	39499.6367	1
617	2.323	0.865	0.554	0.479	1.559	11111	1.06	39500.6470	1
617	2.318	0.859	0.550	0.484	1.576	11111	1.01	39501.5780	1
617	2.324	0.874	0.556	0.479	1.584	11111	1.01	39502.5965	1
617	2.307	0.831	0.533	0.492	1.569	11111	1.02	39504.5638	1
617	2.295	0.868	0.558	0.512	0.000	11110	1.01	39505.5701	1
617	2.312	0.851	0.539	0.490	1.591	11111	1.01	39506.5687	1
617	2.316	0.879	0.546	0.474	1.566	11111	1.01	39507.5779	1
617	2.247	0.813	0.530	0.484	1.594	11111	1.01	39508.5644	1
617	2.326	0.876	0.559	0.485	1.577	11111	1.01	39509.5746	1
618	5.816	0.579	0.350	0.337	0.584	11111	1.11	39016.9195	3
618	5.812	0.585	0.331	0.341	0.591	11111	1.11	39044.8503	3
620	4.839	0.094	0.066	0.023	0.117	11111	1.01	39016.9302	3
620	4.837	0.097	0.055	0.026	0.138	11111	1.01	39044.8622	3
622	3.085	0.130	0.076	0.030	0.164	11111	1.00	38751.6469	3
622	3.073	0.108	0.072	0.049	0.169	11111	1.01	39044.8719	3
648	6.137	1.257	0.781	0.645	2.305	11111	1.06	39016.9437	3
648	6.198	1.277	0.812	0.628	2.318	11111	1.05	39051.8422	3
649	4.591	0.687	0.414	0.411	1.144	11111	1.10	39018.9314	3
649	4.586	0.662	0.401	0.417	1.149	11111	1.11	39051.8522	3
664	4.054	0.016	0.028	-0.026	0.017	11111	1.01	39018.9410	3
664	4.042	-0.004	0.016	-0.015	0.020	11111	1.01	39057.8402	3
681	5.518	1.724	0.367	1.406	1.276	11111	1.26	38752.6822	3
681	4.527	1.445	0.378	1.280	1.509	11111	1.24	38764.6352	1
681	3.882	1.329	0.352	1.185	1.631	11111	1.33	38786.6156	1
681	3.842	1.300	0.371	1.270	1.683	11111	1.26	38789.5821	1
681	3.844	1.375	0.431	1.204	1.732	11111	1.33	38791.6029	1
681	6.146	1.854	0.505	1.300	1.275	11111	1.36	39084.8079	1
681	3.270	1.183	0.333	1.056	1.620	11111	1.24	39139.6078	3
681	3.405	1.255	0.349	1.095	1.616	11111	1.26	39151.5918	3
681	9.888	3.096	0.915	1.274	0.926	11111	1.23	39359.9865	1
681	9.420	2.902	0.804	1.365	0.900	11111	1.26	39372.9137	3
681	9.490	3.005	0.931	1.378	0.952	11111	1.23	39375.9480	1
696	6.330	0.309	0.169	0.213	0.247	11111	1.12	39019.8751	3
696	6.364	0.289	0.189	0.209	0.242	11111	1.11	39057.8499	3
699	5.167	1.243	0.795	0.639	0.000	11110	1.06	39019.8845	3
699	5.182	1.222	0.797	0.640	2.273	11111	1.07	39057.8596	3
699	5.157	1.192	0.767	0.635	2.292	11111	1.05	39138.5890	3
707	4.547	0.146	0.113	0.015	0.150	11111	1.22	39025.8980	3
707	4.495	0.116	0.089	0.022	0.157	11111	1.22	39076.7680	3
708	4.895	-0.009	-0.010	-0.018	-0.028	11111	1.41	39025.9086	3
708	4.862	0.001	-0.011	-0.021	-0.052	11111	1.42	39076.7793	3
718	4.278	-0.041	-0.016	-0.032	-0.091	11111	1.11	38751.6324	3
718	4.284	-0,035	-0.036	-0.049	-0.077	11111	1.18	38752.5903	3
718	4.313	-0.010	0.010	-0.067	-0.082	11111	1.10	38764.6202	1
718	4.257	-0.040	-0.031	-0.035	-0.073	11111	1.12	39016.8935	3
718	4.262	-0.042	-0.019	-0.033	-0.063	11111	1.16	39025.8514	3
718	4.289	-0.036	-0.013	-0.037	-0.065	11111	2.40	39031.7065	3
718	4.297	-0.023	-0.005	-0.044	-0.071	11111	1.12	39034.8478	1
718	4.314	-0.017	-0.018	-0.045	-0.060	11111	1.11	39042.8293	3
718	4.309	-0.016	-0.005	-0.043	-0.075	11111	1.10	39046.8550	1
718	4.307	-0.016	-0.003	-0.063	-0.085	11111	1.10	39051.8304	3
718	4.288	-0.032	-0.007	-0.030	-0.056	11111	1.10	39052.8469	3
718	4.284	-0.030	0.001	-0.042	-0.062	11111	1.10	39053.8292	3
718	4.295	-0.035	-0.013	-0.032	-0.050	11111	1.10	39054.8380	3
718	4.308	-0.043	0.006	-0.031	-0.052	11111	1.10	39056.8331	3
718	4.300	-0.038	-0.001	-0.034	-0.067	11111	1.10	39057.8312	3
718	4.348	-0.043	-0.017	-0.053	-0.079	11111	1.10	39059.8015	3
718	4.353	-0.024	-0.004	-0.028	-0.062	11111	1.10	39060.8170	3
718	4.297	-0.039	-0.019	-0.027	-0.050	11111	1.11	39061.8297	3
718	4.289	-0.005	0.002	-0.052	-0.082	11111	1.13	39076.7242	3
718	4.272	-0.043	-0.029	-0.040	-0.075	11111	1.14	39084.7929	1
718	4.297	-0.049	-0.027	-0.042	-0.084	11111	1.10	39135.6171	1
718	4.259	-0.058	-0.042	-0.032	-0.056	11111	1.10	39138.5768	3
718	4.286	-0.051	-0.017	-0.028	-0.067	11111	2.44	39138.7822	3
718	4.302	-0.022	0.007	-0.051	-0.080	11111	1.10	39139.5927	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
718	4.283	-0.036	-0.017	-0.023	-0.056	11111	2.85	39139.7917	3
718	4.270	-0.042	-0.006	-0.035	-0.052	11111	1.10	39140.5811	3
718	4.281	-0.043	-0.022	-0.018	-0.043	11111	1.11	39147.6032	3
718	4.274	-0.041	-0.030	-0.023	-0.049	11111	2.42	39147.7568	3
718	4.275	-0.024	-0.021	-0.037	-0.063	11111	1.15	39148.6211	3
718	4.293	-0.034	-0.015	-0.020	-0.061	11111	2.30	39148.7496	3
718	4.161	-0.073	-0.041	-0.015	-0.028	01111	1.14	39150.6123	3
718	4.290	-0.040	-0.013	-0.037	-0.062	11111	1.10	39151.5799	3
718	4.297	-0.026	-0.010	-0.036	-0.069	11111	1.17	39359.9336	1
718	4.325	-0.045	-0.020	-0.024	-0.040	11111	1.40	39365.8625	1
718	4.328	-0.004	0.005	-0.024	-0.059	11111	1.10	39375.9346	1
718	4.290	-0.021	-0.006	-0.053	-0.078	11111	1.10	39377.9214	1
718	4.282	-0.026	-0.013	-0.032	-0.057	11111	1.12	39407.8300	1
718	4.249	-0.038	-0.021	-0.048	-0.090	11111	1.10	39408.8493	3
718	4.283	-0.047	-0.015	-0.047	-0.076	11111	1.10	39443.7777	1
718	4.299	-0.039	-0.018	-0.041	-0.060	11111	1.10	39444.7582	1
718	4.296	-0.037	-0.012	-0.047	-0.065	11111	1.10	39457.7029	1
718	4.304	-0.017	-0.019	-0.041	-0.073	11111	1.10	39459.7277	1
718	4.300	-0.028	-0.007	-0.032	-0.051	11111	1.24	39461.7942	1
718	4.278	-0.044	-0.003	-0.017	-0.021	11111	1.11	39472.6546	1
718	4.285	-0.034	-0.018	-0.040	-0.063	11111	1.11	39476.6975	1
718	4.282	-0.040	-0.031	-0.026	-0.041	11111	1.10	39479.6615	1
718	4.290	-0.028	-0.011	-0.020	-0.058	11111	1.84	39487.7980	3
718	4.272	-0.045	-0.019	-0.041	-0.046	11111	1.13	39499.6484	1
718	4.288	-0.033	-0.012	-0.041	-0.059	11111	1.16	39500.6634	1
718	4.289	-0.048	-0.014	-0.038	-0.073	11111	1.10	39501.5937	1
718	4.297	-0.033	-0.008	-0.034	-0.068	11111	1.10	39502.6138	1
718	4.264	-0.057	-0.037	-0.026	-0.050	11111	1.10	39504.5765	1
718	4.306	-0.056	-0.018	-0.050	-0.059	11111	1.10	39505.5819	1
718	4.299	-0.057	-0.025	-0.036	-0.059	11111	1.10	39506.5788	1
718	4.289	-0.046	-0.028	-0.043	-0.075	11111	1.10	39507.5992	1
718	4.293	-0.061	-0.042	-0.046	-0.078	11111	1.10	39508.5824	1
718	4.287	-0.024	-0.011	-0.036	-0.067	11111	1.10	39509.5979	1
740	4.849	0.384	0.223	0.226	0.508	11111	1.49	39025.9200	3
740	4.827	0.393	0.233	0.225	0.499	11111	1.50	39076.7899	3
753	6.118	0.874	0.566	0.275	1.236	11111	1.18	38789.6163	1
753	6.137	0.854	0.534	0.280	1.215	11111	1.19	38791.6127	1
753	6.131	0.889	0.587	0.280	1.203	11111	2.31	39031.7179	3
753	6.149	0.918	0.621	0.290	1.232	11111	1.91	39053.6776	3
753	6.177	0.922	0.641	0.273	1.201	11111	1.11	39359.9985	1
753	6.155	0.922	0.628	0.260	1.191	11111	1.15	39440.8202	1
779	4.062	-0.174	-0.092	-0.108	-0.345	11111	1.27	38708.8429	3
779	4.057	-0.169	-0.126	-0.095	-0.300	11111	1.22	38791.5932	1
779	4.082	-0.098	-0.063	-0.108	-0.312	11111	1.24	39407.8179	1
788	5.030	0.449	0.283	0.234	0.647	11111	1.07	38708.8525	3
788	5.053	0.445	0.265	0.241	0.679	11111	1.01	39138.5993	3
799	4.251	0.423	0.253	0.216	0.577	11111	1.05	39026.9020	3
799	4.266	0.422	0.237	0.213	0.545	11111	1.04	39138.6101	3
801	4.666	-0.059	-0.038	-0.064	-0.177	11111	1.00	39026.9113	3
801	4.669	-0.080	-0.056	-0.052	-0.177	11111	1.01	39138.6199	3
804	3.510	0.072	0.051	0.015	0.116	11111	1.15	39026.9211	3
804	3.517	0.090	0.051	-0.004	0.106	11111	1.15	39139.6218	3
811	4.272	-0.035	-0.010	-0.074	-0.171	11111	1.46	39028.8953	3
811	4.233	-0.058	-0.032	-0.054	-0.175	11111	1.47	39139.6324	3
813	4.387	0.300	0.186	0.114	0.336	11111	1.08	39028.9059	3
813	4.334	0.257	0.169	0.123	0.355	11111	1.08	39140.5936	3
818	4.615	0.437	0.268	0.202	0.541	11111	1.59	39028.9166	3
818	4.536	0.369	0.235	0.243	0.577	11111	1.59	39140.6044	3
824	4.831	0.848	0.546	0.494	1.541	11111	1.00	39029.8944	3
824	4.789	0.814	0.536	0.480	1.532	11111	1.00	39140.6145	3
834	4.265	1.295	0.836	0.775	2.341	11111	1.09	39029.9045	3
834	4.239	1.269	0.813	0.779	2.449	11111	1.09	39140.6243	3
838	0.000	0.000	-0.017	-0.044	-0.121	00111	1.00	39029.9137	3
838	3.613	-0.052	-0.012	-0.067	-0.134	11111	1.02	39140.6346	3
838	3.653	-0.040	-0.040	-0.070	-0.138	11111	1.01	39151.6027	3
840	4.332	0.326	0.187	0.154	0.407	11111	1.02	39042.8439	3
840	4.325	0.282	0.169	0.188	0.421	11111	1.02	39151.6121	3
843	4.985	1.256	0.793	0.646	2.317	11111	1.01	39042.8546	3
643	4.995	1.235	0.776	0.667	2.327	11111	1.03	39151.6216	3
854	4.134	0.613	0.360	0.336	0.919	11111	1.07	39042.8655	3
854	4.168	0.622	0.378	0.333	0.885	11111	1.10	39151.6316	3
874	4.178	0.847	0.528	0.467	1.468	11111	1.33	39042.8772	3
874	4.160	0.811	0.504	0.459	1.466	11111	1.46	39174.5814	3
875	5.182	0.039	0.012	0.012	0.106	11111	1.31	38786.6325	1
875	5.161	0.052	0.016	0.029	0.133	11111	1.24	38791.5806	1
875	5.212	0.088	0.046	0.016	0.096	11111	1.28	39018.9855	3
875	5.257	0.079	0.059	0.027	0.131	11111	1.24	39029.9246	3
875	5.211	0.062	0.054	0.013	0.107	11111	2.75	39042.7081	3
875	5.201	0.068	0.058	0.007	0.077	11111	1.31	39045.9234	3
875	5.206	0.053	0.042	0.038	0.117	11111	2.41	39053.6894	3
875	5.188	0.047	0.044	0.034	0.120	11111	2.36	39054.6885	3
875	5.229	0.089	0.000	-0.014	0.081	11011	2.25	39056.6878	3
875	5.215	0.050	0.034	0.008	0.107	11111	2.40	39057.6790	3
875	5.227	0.078	0.069	0.016	0.105	11111	2.20	39060.6794	3
875	5.209	0.083	0.062	0.004	0.086	11111	2.32	39061.6710	3
875	5.179	0.059	0.054	0.016	0.071	11111	1.24	39091.7465	1
875	5.230	0.085	0.062	0.000	0.095	11111	1.24	39360.0088	1
875	5.196	0.076	0.040	0.013	0.094	11111	2.05	39372.8323	3
875	5.210	0.063	0.035	0.041	0.145	11111	1.24	39372.9837	3
875	5.198	0.087	0.039	0.006	0.095	11111	1.29	39376.0102	1
875	5.181	0.053	0.035	0.029	0.090	11111	1.26	39377.9885	1
875	5.208	0.072	0.047	0.010	0.098	11111	1.24	39406.8865	1
875	5.185	0.046	0.017	0.023	0.104	11111	2.12	39409.7277	3
875	5.198	0.079	0.044	0.016	0.105	11111	1.26	39409.8434	3
875	5.222	0.081	0.056	0.017	0.109	11111	2.28	39410.7171	3
875	5.238	0.095	0.060	0.027	0.117	11111	1.24	39410.8754	3
875	5.189	0.063	0.038	0.040	0.122	11111	1.27	39431.8510	1
875	0.000	0.070	0.024	0.000	0.111	01101	1.48	39433.8982	0
875	5.219	0.070	0.047	0.019	0.111	11111	1.35	39434.8691	1
875	5.179	0.022	0.033	0.009	0.097	11111	1.32	39487.6068	3
879	4.727	0.065	0.045	0.018	0.069	11111	1.01	39042.8923	3
879	4.692	0.063	0.032	0.001	0.048	11111	1.14	39173.6197	3
882	5.272	0.964	0.609	0.518	1.737	11111	1.01	39042.9040	3
882	5.249	0.922	0.576	0.502	1.706	11111	1.07	39174.5911	3
896	4.702	-0.027	0.002	-0.066	-0.163	11111	1.10	38752.7013	3
896	4.692	-0.053	-0.027	-0.064	-0.177	11111	1.35	39173.6293	3
911	2.944	1.256	0.741	0.727	2.433	11111	1.22	38786.6459	1
911	2.973	1.289	0.771	0.729	2.443	11111	1.14	39054.8483	3
915	3.109	0.578	0.353	0.333	0.822	11111	1.07	39016.9546	3
915	3.115	0.572	0.353	0.320	0.847	11111	1.07	39054.8582	3
921	3.717	1.270	0.568	0.911	2.295	11111	1.01	39018.9533	3
921	3.780	1.285	0.563	0.895	2.243	11111	1.01	39054.8674	3
932	4.869	0.016	0.027	0.001	0.045	11111	1.34	39016.9664	3
932	4.874	0.029	0.018	-0.002	0.061	11111	1.35	39054.8776	3
932	4.888	0.021	0.038	0.004	0.048	11111	1.34	39139.6447	3
936	2.123	0.006	-0.009	-0.041	-0.144	11111	1.06	38708.8633	3
936	2.164	0.015	-0.002	-0.044	-0.088	11111	1.03	39054.8878	3
936	2.127	0.023	0.007	-0.028	-0.089	11111	1.02	39406.9084	1
936	2.175	0.034	0.004	-0.044	-0.098	11111	1.03	39448.8150	1
936	3.054	0.104	0.056	0.001	-0.009	11111	1.11	39456.6674	1
936	3.187	0.124	0.062	0.018	-0.001	11111	1.07	39456.6855	1
936	2.478	0.000	-0.035	-0.030	-0.103	11111	1.05	39459.6949	1
936	2.417	0.009	-0.007	-0.042	-0.122	11111	1.02	39459.7143	1
936	2.194	0.047	0.011	-0.037	-0.114	11111	1.16	39459.8470	1
936	2.167	0.025	0.008	-0.059	-0.111	11111	1.05	39468.7759	1
936	2.139	-0.027	-0.023	-0.023	-0.076	11111	1.08	39473.6355	1
937	4.156	0.460	0.289	0.259	0.696	11111	1.67	38702.6250	3
937	4.172	0.472	0.296	0.265	0.703	11111	1.24	38702.6983	3
937	4.179	0.493	0.293	0.263	0.712	11111	1.09	38702.7608	3
937	4.198	0.500	0.287	0.269	0.703	11111	1.08	38702.8687	3
937	4.193	0.503	0.293	0.255	0.698	11111	1.20	38702.9271	3
937	4.174	0.483	0.274	0.268	0.713	11111	1.32	38704.6739	3
937	4.181	0.484	0.279	0.273	0.721	11111	1.10	38704.7473	3
937	4.205	0.503	0.295	0.258	0.714	11111	1.05	38704.8276	3
937	4.198	0.493	0.289	0.265	0.714	11111	1.11	38704.8873	3
937	4.189	0.483	0.284	0.277	0.714	11111	1.20	38704.9223	3
937	4.240	0.515	0.308	0.252	0.682	11111	1.05	39459.7671	1
937	4.209	0.485	0.297	0.252	0.700	11111	1.05	39509.6118	1
941	4.077	0.796	0.515	0.375	1.257	11111	1.02	39018.9630	3
941	4.045	0.736	0.454	0.427	1.318	11111	1.02	39055.8550	3
947	4.903	0.831	0.530	0.499	1.535	11111	1.01	39018.9737	3
947	4.904	0.835	0.522	0.471	1.539	11111	1.01	39055.8649	3
951	4.594	0.757	0.475	0.469	1.389	11111	1.03	39025.9491	3
951	4.612	0.770	0.483	0.457	1.411	11111	1.03	39055.8748	3
972	4.880	-0.011	0.001	-0.023	-0.031	11111	1.02	39026.9314	3
972	4.925	-0.002	0.009	-0.033	-0.034	11111	1.03	39055.8854	3
984	4.857	0.206	0.121	0.080	0.278	11111	1.50	38705.7431	3
984	4.906	0.199	0.147	0.076	0.264	11111	1.34	39056.8436	3
985	4.861	-0.044	-0.035	-0.067	-0.210	11111	1.19	39026.9433	3
985	4.837	-0.096	-0.034	-0.051	-0.207	11111	1.19	39056.8589	3
991	5.220	1.072	0.712	0.684	2.058	11111	1.02	38705.7817	3
991	5.198	1.074	0.715	0.685	2.120	11111	1.00	39056.8693	3
996	4.993	0.539	0.345	0.282	0.791	11111	1.15	39026.9542	3
996	5.038	0.544	0.353	0.295	0.819	11111	1.15	39057.8691	3
999	4.909	1.241	0.807	0.690	2.326	11111	1.00	39028.9397	3
999	4.920	1.231	0.793	0.687	2.315	11111	1.01	39057.8781	3
1002	5.009	0.041	0.035	0.001	0.086	11111	1.02	39028.9507	3
1002	4.989	0.020	0.016	0.019	0.088	11111	1.04	39057.8983	3
1017	1.933	0.411	0.264	0.203	0.545	11111	1.06	38641.9584	1
1017	1.948	0.428	0.268	0.223	0.566	11111	1.06	38704.8509	3
1017	1.966	0.416	0.275	0.208	0.565	11111	1.05	38751.6839	3
1017	1.930	0.406	0.259	0.221	0.565	11111	1.05	38752.7147	3
1017	1.909	0.358	0.248	0.262	0.576	11111	1.05	38764.6518	1
1017	1.933	0.426	0.267	0.205	0.552	11111	1.05	39406.8976	1
1017	1.955	0.447	0.288	0.208	0.559	11111	1.09	39409.9497	3
1017	1.971	0.435	0.279	0.204	0.551	11111	1.05	39448.8009	1
1017	1.944	0.418	0.265	0.213	0.556	11111	1.21	39456.6542	1
1017	1.944	0.418	0.267	0.223	0.560	11111	1.10	39456.6984	1

TABLE 8 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 52

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
1017	1.924	0.417	0.243	0.226	0.545	11111	1.08	39459.7045	1
1017	1.971	0.437	0.270	0.216	0.551	11111	1.13	39459.8375	1
1017	1.959	0.423	0.272	0.200	0.547	11111	1.08	39468.7873	1
1017	1.932	0.405	0.242	0.213	0.559	11111	1.18	39473.6160	1
1030	3.847	0.693	0.435	0.417	1.164	11111	1.12	39028.9757	3
1030	3.833	0.697	0.423	0.417	1.107	11111	1.09	39091.7598	1
1034	5.069	-0.026	-0.008	-0.019	-0.125	11111	1.04	39029.9372	3
1034	5.033	-0.082	-0.048	-0.024	-0.137	11111	1.05	39135.6306	1
1035	4.403	0.446	0.258	0.271	0.393	11111	1.13	39029.9483	3
1035	4.430	0.405	0.216	0.248	0.383	11111	1.13	39135.6437	1
1038	3.798	0.004	0.017	-0.028	-0.075	11111	1.11	39029.9687	3
1038	3.738	-0.032	-0.018	-0.050	-0.132	11111	1.08	39091.7695	1
1040	4.714	0.553	0.323	0.311	0.501	11111	1.12	39044.8943	3
1040	4.809	0.515	0.309	0.334	0.514	11111	1.12	39135.6552	1
1040	4.686	0.552	0.318	0.324	0.479	11111	1.11	39408.8968	3
1044	4.680	-0.045	-0.031	-0.040	-0.156	11111	1.05	39044.8835	3
1044	4.675	-0.040	-0.040	-0.031	-0.157	11111	1.05	39139.6554	3
1046	5.125	0.038	0.023	-0.002	0.066	11111	1.09	39045.8808	3
1046	5.159	0.018	0.030	-0.035	0.039	11111	1.09	39139.6648	3
1052	4.737	1.089	0.695	0.573	2.001	11111	1.04	39045.8898	3
1052	4.735	1.063	0.685	0.566	1.993	11111	1.05	39139.6745	3
1066	4.392	0.767	0.492	0.502	1.580	11111	1.08	38705.7986	3
1066	4.393	0.785	0.480	0.531	1.556	11111	1.06	39147.6177	3
1070	4.746	-0.045	-0.013	-0.048	-0.135	11111	1.26	39045.9025	3
1070	4.723	-0.047	-0.045	-0.029	-0.115	11111	1.27	39147.6278	3
1084	3.955	0.748	0.505	0.304	1.104	11111	2.04	38702.7081	3
1084	3.945	0.757	0.479	0.313	1.120	11111	1.36	38702.8139	3
1084	3.972	0.762	0.484	0.322	1.104	11111	1.41	38702.8823	3
1084	3.975	0.763	0.497	0.315	1.092	11111	1.71	38702.9360	3
1084	3.928	0.742	0.469	0.306	1.088	11111	2.44	38704.6824	3
1084	3.966	0.746	0.481	0.320	1.107	11111	1.53	38704.7559	3
1084	3.976	0.756	0.496	0.316	1.113	11111	1.35	38704.8361	3
1084	3.971	0.766	0.503	0.315	1.095	11111	1.49	38704.8965	3
1084	3.953	0.752	0.501	0.309	1.100	11111	1.72	38704.9312	3
1084	3.969	0.734	0.474	0.316	1.102	11111	1.52	38705.7548	3
1084	3.965	0.723	0.468	0.309	1.097	11111	2.25	38705.9667	3
1084	3.991	0.759	0.515	0.309	1.104	11111	1.37	39017.0064	3
1084	3.987	0.784	0.501	0.308	1.092	11111	1.36	39018.9947	3
1084	3.974	0.739	0.485	0.320	1.094	11111	1.35	39025.9328	3
1084	4.005	0.783	0.510	0.322	1.115	11111	1.35	39028.9267	3
1084	3.975	0.765	0.477	0.316	1.108	11111	2.86	39042.7429	3
1084	3.960	0.756	0.497	0.316	1.086	11111	1.38	39045.9323	3
1084	4.002	0.773	0.498	0.297	1.088	11111	2.10	39054.7407	3
1084	3.974	0.749	0.496	0.330	1.109	11111	2.66	39056.7106	3
1084	3.982	0.769	0.492	0.319	1.115	11111	2.33	39057.7205	3
1084	4.012	0.779	0.519	0.307	1.096	11111	2.16	39060.7207	3
1084	3.978	0.741	0.489	0.333	1.120	11111	2.10	39061.7218	3
1084	4.077	0.780	0.497	0.297	1.074	11111	1.35	39091.7797	1
1084	3.991	0.698	0.468	0.296	1.053	11111	1.45	39172.6072	3
1084	3.953	0.729	0.447	0.331	1.102	11111	2.32	39172.6925	3
1084	3.953	0.741	0.469	0.325	1.095	11111	1.43	39173.6003	3
1084	3.960	0.749	0.493	0.323	1.108	11111	2.44	39173.6948	3
1084	3.951	0.740	0.462	0.294	1.082	11111	1.37	39174.5723	3
1084	3.868	0.746	0.501	0.323	1.094	11111	2.38	39174.6895	3
1084	3.960	0.725	0.473	0.305	1.097	11111	1.41	39175.5885	3
1084	3.945	0.738	0.479	0.319	1.096	11111	2.44	39175.6892	3
1084	3.974	0.736	0.459	0.314	1.096	11111	1.41	39176.5831	3
1084	3.911	0.753	0.487	0.323	1.111	11111	2.66	39176.6944	3
1084	3.964	0.751	0.466	0.317	1.106	11111	2.03	39372.8741	3
1084	3.993	0.774	0.482	0.306	1.099	11111	1.37	39376.0189	1
1084	3.981	0.760	0.500	0.310	1.076	11111	1.35	39377.9982	1
1084	3.969	0.749	0.492	0.315	1.097	11111	1.35	39476.7100	1
1084	3.972	0.748	0.485	0.323	1.131	11111	1.37	39479.6773	1
1084	3.990	0.756	0.493	0.314	1.091	11111	1.57	39479.7902	1
1084	3.951	0.731	0.473	0.309	1.098	11111	1.35	39482.6950	3
1084	3.966	0.749	0.486	0.311	1.098	11111	6.60	39487.8913	3
1084	4.036	0.752	0.484	0.335	1.096	11111	1.56	39488.6049	3
1084	3.980	0.765	0.491	0.310	1.074	11111	1.56	39488.7641	3
1087	4.244	0.064	-0.011	-0.011	-0.114	11111	1.04	39045.9120	3
1087	4.239	0.044	-0.025	-0.030	-0.132	11111	1.08	39175.5998	3
1101	4.412	0.408	0.238	0.296	0.691	11111	1.19	38705.8108	3
1101	4.447	0.431	0.240	0.278	0.658	11111	1.24	38786.6581	1
1101	4.436	0.495	0.285	0.257	0.652	11111	1.23	39409.8557	3
1122	3.056	-0.010	-0.017	-0.064	-0.178	11111	1.04	39046.8803	1
1122	3.011	-0.084	-0.050	-0.074	-0.170	11111	1.08	39175.6087	3
1122	3.055	-0.022	-0.020	-0.057	-0.174	11111	1.05	39448.8271	1
1129	5.045	0.731	0.445	0.387	0.896	11111	1.16	39046.8937	1
1129	4.972	0.679	0.403	0.387	0.895	11111	1.21	39175.6187	3
1131	3.886	0.055	0.010	0.067	-0.001	11111	1.00	38705.8207	3
1131	3.843	0.088	0.031	0.063	-0.036	11111	1.07	39176.6134	3
1135	3.916	0.358	0.216	0.192	0.498	11111	1.02	38705.8312	3
1135	3.904	0.386	0.000	0.195	0.483	11011	1.09	39176.6232	3
1135	3.871	0.390	0.211	0.176	0.457	11111	1.06	39372.9492	3
1136	3.790	0.766	0.480	0.349	1.143	11111	1.39	39050.8535	3
1136	3.753	0.716	0.430	0.366	1.176	11111	1.42	39176.5927	3
1138	5.442	0.062	0.047	0.003	0.120	11111	1.28	39050.8649	3
1138	5.421	0.072	0.042	0.000	0.121	11111	1.29	39372.9630	3
1140	5.495	-0.015	0.005	-0.036	-0.075	11111	1.04	39482.7483	3
1142	3.743	-0.028	-0.003	-0.066	-0.173	11111	1.01	39042.9284	3
1142	3.698	-0.048	-0.028	-0.014	-0.159	11111	1.03	39375.9641	1
1142	3.710	-0.049	-0.035	-0.048	-0.142	11111	1.01	39482.7137	3
1144	5.676	-0.013	-0.003	-0.024	-0.117	11111	1.02	39042.9386	3
1144	5.643	-0.027	-0.006	-0.004	-0.104	11111	1.02	39375.9735	1
1145	4.353	0.014	0.013	-0.086	-0.196	11111	1.03	39042.9476	3
1145	4.287	-0.046	-0.021	-0.051	-0.184	11111	1.02	39375.9816	1
1145	4.311	-0.037	0.000	-0.044	-0.134	11011	1.09	39482.7764	3
1148	4.647	0.071	0.047	0.015	0.037	11111	1.29	39050.8752	3
1148	4.659	0.074	0.042	0.016	0.042	11111	1.30	39372.9730	3
1149	3.921	0.045	0.013	-0.027	-0.125	11111	1.01	39050.8859	3
1149	3.872	-0.005	0.018	-0.031	-0.154	11111	1.01	39375.9902	1
1151	5.787	0.018	0.016	-0.013	-0.063	11111	1.01	39050.8958	3
1151	5.779	-0.002	-0.004	-0.036	-0.074	11111	1.07	39377.9333	1
1155	4.962	1.262	0.834	0.953	2.728	11111	1.20	39050.9193	3
1155	4.871	1.464	0.810	0.960	2.732	11111	1.24	39372.9398	3
1156	4.213	0.040	0.005	-0.039	-0.069	11111	1.02	39051.8669	3
1156	4.176	0.036	0.010	-0.022	-0.087	11111	1.06	39377.9422	1
1156	4.185	0.047	-0.005	-0.007	-0.078	11111	1.04	39409.8676	3
1162	4.871	1.277	0.782	0.695	2.448	11111	1.44	38751.7439	3
1162	4.881	1.276	0.773	0.687	2.416	11111	1.51	39176.6030	3
1165	2.931	0.010	-0.019	-0.037	-0.173	11111	1.05	38751.7602	3
1165	2.863	-0.021	-0.022	-0.032	-0.137	11111	1.04	39377.9510	1
1165	2.885	0.000	-0.018	-0.042	-0.138	11111	1.03	39409.8784	3
1165	2.865	-0.015	-0.027	-0.021	-0.153	11111	1.01	39488.6827	3
1165	2.874	-0.002	-0.020	-0.038	-0.142	11111	1.04	39488.7331	3
1172	5.481	-0.010	-0.014	-0.038	-0.110	11111	1.01	39051.8795	3
1172	5.442	-0.019	-0.007	-0.038	-0.114	11111	1.03	39377.9609	1
1172	5.436	-0.056	-0.016	-0.021	-0.123	11111	1.02	39488.6689	3
1178	3.679	-0.001	-0.017	-0.043	-0.130	11111	1.01	39051.8900	3
1178	3.623	-0.019	-0.001	-0.042	-0.141	11111	1.02	39377.9703	1
1178	3.635	-0.023	-0.008	-0.027	-0.125	11111	1.06	39487.6416	3
1180	5.011	-0.001	-0.019	-0.010	-0.108	11111	1.03	39052.8575	3
1180	5.018	0.020	-0.004	-0.047	-0.133	11111	1.02	39377.9792	1
1180	5.016	0.030	-0.020	-0.029	-0.121	11111	1.02	39409.8902	3
1180	0.000	-0.037	-0.021	-0.021	-0.123	01111	1.04	39487.6525	3
1183	6.222	-0.007	-0.013	-0.077	-0.115	11111	1.37	39487.8322	3
1203	2.961	0.142	0.078	0.096	0.038	11111	1.01	39052.8677	3
1203	2.909	0.158	0.071	0.112	0.056	11111	1.00	39409.9012	3
1204	4.969	-0.036	-0.020	-0.028	-0.091	11111	1.16	39052.8791	3
1204	4.941	-0.024	-0.024	-0.040	-0.123	11111	1.16	39408.9081	3
1211	4.648	0.578	0.337	0.323	0.813	11111	1.23	39052.8890	3
1211	4.667	0.567	0.337	0.305	0.813	11111	1.26	39457.7493	1
1220	2.886	-0.089	-0.054	-0.063	-0.255	11111	1.04	39053.8395	3
1220	2.885	-0.094	-0.060	-0.068	-0.272	11111	1.03	39411.8680	1
1228	4.098	0.107	0.079	0.027	-0.077	11111	1.03	39053.8489	3
1228	4.069	0.116	0.062	0.031	-0.070	11111	1.01	39411.8815	1
1231	3.424	1.254	0.806	0.638	2.345	11111	1.48	39053.8583	3
1231	3.357	1.245	0.818	0.651	2.334	11111	1.48	39440.7985	1
1239	3.761	-0.030	-0.035	-0.075	-0.168	11111	1.08	39053.8682	3
1239	3.436	-0.035	-0.035	-0.074	-0.185	11111	1.13	39440.7752	1
1251	3.933	-0.006	0.024	-0.024	0.013	11111	1.44	38708.7277	3
1251	3.831	0.016	-0.003	-0.010	0.051	11111	1.16	38786.6722	1
1251	3.900	0.036	0.014	-0.022	0.013	11111	1.12	39408.9210	3
1256	4.607	0.779	0.502	0.434	1.419	11111	1.16	38708.7513	3
1256	4.690	0.842	0.572	0.468	1.506	11111	1.02	39091.8035	1
1261	4.265	-0.048	0.000	-0.035	-0.091	11111	1.12	38708.7647	3
1261	4.394	0.034	0.024	-0.032	-0.057	11111	1.05	39135.6712	1
1273	4.059	0.078	0.011	0.027	-0.070	11111	1.20	39019.8814	3
1273	4.144	0.071	0.013	-0.012	-0.085	11111	1.04	39135.6816	1
1273	4.070	0.080	0.010	0.027	-0.074	11111	1.04	39409.9146	3
1298	4.165	0.280	0.164	0.170	0.411	11111	1.70	39019.8867	3
1298	4.153	0.294	0.178	0.131	0.374	11111	1.29	39147.6416	3
1303	4.406	0.744	0.479	0.468	1.215	11111	1.05	38751.6959	3
1303	4.405	0.755	0.435	0.472	1.191	11111	1.04	39147.6531	3
1306	4.943	0.793	0.492	0.473	1.230	11111	1.15	39019.8972	3
1306	4.921	0.746	0.468	0.459	1.233	11111	1.01	39148.6334	3
1311	5.040	0.647	0.384	0.390	1.030	11111	1.12	38751.7728	3
1311	5.026	0.618	0.370	0.360	1.007	11111	1.09	39148.6427	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
1318	5.200	0.918	0.563	0.505	1.637	11111	1.64	39019.9080	3
1318	5.155	0.889	0.559	0.474	1.611	11111	1.36	39148.6518	3
1319	6.413	0.350	0.217	0.158	0.453	11111	1.05	39509.6406	1
1320	4.333	0.039	0.009	-0.045	-0.128	11111	1.15	38751.7828	3
1320	4.185	-0.039	-0.011	-0.006	-0.079	01111	1.09	39150.6271	3
1324	4.638	0.041	0.039	0.021	0.051	11111	1.05	39025.9888	3
1324	4.561	0.017	0.007	0.014	0.053	01111	1.05	39150.6379	3
1324	4.624	0.086	0.043	0.007	0.046	11111	1.05	39409.9269	3
1325	4.671	0.704	0.456	0.320	0.983	11111	1.33	39026.0096	3
1325	4.543	0.671	0.438	0.317	0.994	01111	1.32	39150.6574	3
1325	4.635	0.691	0.440	0.312	0.986	11111	1.32	39431.8881	1
1329	5.025	0.206	0.144	0.097	0.335	11111	1.02	39026.9887	3
1329	4.965	0.210	0.137	0.101	0.303	11111	1.02	39408.9325	3
1346	3.896	0.724	0.452	0.439	1.319	11111	1.05	39026.9976	3
1346	3.856	0.738	0.450	0.421	1.269	11111	1.05	39408.9483	3
1350	4.900	0.035	0.011	-0.002	-0.084	11111	1.03	39028.9876	3
1350	4.866	0.046	0.022	0.002	-0.087	11111	1.03	39409.9384	3
1351	5.677	0.257	0.142	0.114	0.346	11111	1.05	39502.6815	1
1351	5.646	0.234	0.151	0.098	0.336	11111	1.13	39506.6047	1
1356	5.344	0.223	0.141	0.094	0.283	11111	1.03	39411.9068	1
1356	5.344	0.182	0.118	0.059	0.258	11111	1.09	39506.6172	1
1373	4.025	0.740	0.473	0.443	1.333	11111	1.04	39028.9966	3
1373	3.981	0.734	0.452	0.424	1.287	11111	1.04	39408.9601	3
1376	5.730	0.245	0.164	0.104	0.380	11111	1.06	39506.6319	1
1380	4.883	0.151	0.116	0.054	0.209	11111	1.05	39029.0044	3
1380	4.851	0.136	0.085	0.053	0.205	11111	1.04	39411.8950	1
1385	6.095	0.325	0.197	0.165	0.429	11111	1.04	39507.6469	1
1387	4.325	0.151	0.111	0.030	0.186	11111	1.02	39029.9796	3
1387	4.264	0.129	0.082	0.032	0.162	11111	1.02	39411.9221	1
1389	4.325	0.049	0.049	-0.014	0.063	11111	1.04	39029.9966	3
1389	4.327	0.049	0.028	-0.004	0.080	11111	1.05	39431.9087	1
1392	4.398	0.269	0.182	0.101	0.303	11111	1.02	39029.9879	3
1392	4.383	0.260	0.159	0.104	0.286	11111	1.01	39411.9338	1
1394	4.563	0.230	0.151	0.094	0.265	11111	1.05	39044.9194	3
1394	4.580	0.249	0.155	0.099	0.288	11111	1.05	39411.9464	1
1396	4.888	0.708	0.450	0.452	1.279	11111	1.05	39044.9478	3
1396	4.960	0.745	0.463	0.448	1.282	11111	1.05	39448.8428	1
1408	5.972	0.274	0.159	0.131	0.386	11111	1.06	39506.6449	1
1409	3.807	0.738	0.477	0.448	1.402	11111	1.04	38705.8970	3
1409	3.767	0.746	0.472	0.439	1.370	11111	1.07	39431.9298	1
1411	4.100	0.709	0.457	0.410	1.293	11111	1.08	38705.9095	3
1411	4.078	0.716	0.433	0.417	1.280	11111	1.06	38752.7685	3
1411	4.133	0.728	0.476	0.407	1.271	11111	1.07	38786.6846	1
1411	4.109	0.715	0.464	0.422	1.252	11111	1.07	39502.6440	1
1411	4.066	0.675	0.444	0.446	1.247	11111	1.17	39506.5908	1
1411	4.078	0.716	0.452	0.406	1.262	11111	1.07	39509.6266	1
1412	3.479	0.168	0.101	0.049	0.232	11111	1.08	38752.7797	3
1412	3.467	0.146	0.062	0.055	0.218	11111	1.09	38786.6943	1
1412	3.444	0.139	0.073	0.066	0.226	11111	1.19	39504.5919	1
1412	3.498	0.219	0.101	-0.025	0.173	11111	1.17	39505.5961	1
1412	3.494	0.170	0.095	0.006	0.193	11111	1.10	39507.6166	1
1412	3.482	0.156	0.072	0.009	0.194	11111	1.13	39508.6009	1
1412	3.498	0.169	0.092	0.044	0.213	11111	1.12	39509.7304	1
1427	4.824	0.116	0.105	0.045	0.188	11111	1.05	39044.9610	3
1427	4.867	0.152	0.095	0.046	0.202	11111	1.04	39459.7920	1
1437	5.241	0.984	0.630	0.582	1.895	11111	1.18	39045.9419	3
1437	5.218	0.962	0.602	0.582	1.902	11111	1.38	39473.6792	1
1444	4.763	0.218	0.127	0.107	0.322	11111	1.05	39051.9291	3
1444	4.780	0.139	0.081	0.040	0.224	11111	1.05	39472.7539	1
1454	4.568	0.937	0.584	0.631	1.577	11111	1.01	39051.9385	3
1454	4.490	0.932	0.584	0.596	1.538	11111	1.12	39474.6789	1
1457	1.332	1.255	0.811	0.605	2.265	11111	1.04	39019.0044	3
1457	1.346	1.238	0.784	0.629	2.312	11111	1.04	39431.8677	1
1458	4.322	0.148	0.099	0.061	0.205	11111	1.08	39052.9086	3
1458	4.298	0.143	0.077	0.054	0.207	11111	1.18	39431.9510	1
1463	3.901	-0.114	-0.070	-0.086	-0.280	11111	1.24	39052.9314	3
1463	3.916	-0.134	-0.085	-0.073	-0.263	11111	1.27	39499.6620	1
1473	4.323	0.108	0.080	0.017	0.154	11111	1.07	39053.8974	3
1473	4.348	0.085	0.066	0.033	0.169	11111	1.08	39457.7885	1
1479	4.726	0.113	0.069	0.048	0.198	11111	1.05	39053.9103	3
1479	4.728	0.085	0.086	0.031	0.186	11111	1.04	39472.7718	1
1481	4.129	0.830	0.510	0.473	1.478	11111	1.46	39053.9304	3
1481	4.132	0.857	0.550	0.446	1.448	11111	1.48	39499.6748	1
1496	4.737	1.258	0.659	0.776	2.326	11111	1.63	39054.9095	3
1496	4.713	1.237	0.662	0.767	2.317	11111	1.63	39499.6876	1
1497	4.235	-0.102	-0.081	-0.043	-0.145	11111	1.01	39055.9228	3
1497	4.299	-0.066	-0.040	-0.060	-0.162	11111	1.02	39479.7664	1
1520	3.991	-0.090	-0.079	-0.075	-0.200	11111	1.24	39055.9323	3
1520	4.014	-0.074	-0.037	-0.067	-0.195	11111	1.23	39500.6923	1
1542	4.317	0.083	0.060	0.050	-0.055	11111	1.22	39056.8809	3
1542	4.381	0.131	0.066	0.050	-0.066	11111	1.20	39459.8135	1
1543	3.305	0.369	0.225	0.207	0.517	11111	1.12	39056.8911	3
1543	3.314	0.391	0.231	0.202	0.519	11111	1.14	39461.7706	1
1544	4.348	-0.017	0.008	0.000	0.026	11111	1.10	39056.9010	3
1544	4.414	0.060	0.030	-0.015	-0.014	11111	1.09	39459.8025	1
1547	5.134	0.161	0.105	0.063	0.248	11111	1.03	39057.9235	3
1547	5.165	0.156	0.106	0.099	0.283	11111	1.03	39479.7519	1
1547	5.177	0.191	0.124	0.079	0.257	11111	1.04	39500.7318	1
1552	3.651	-0.093	-0.066	-0.094	-0.270	11111	1.13	39057.9325	3
1552	3.695	-0.070	-0.038	-0.073	-0.232	11111	1.14	39461.7832	1
1560	4.413	0.201	0.128	0.090	0.284	11111	1.28	39057.9418	3
1560	4.448	0.231	0.148	0.093	0.281	11111	1.29	39500.6798	1
1567	3.706	-0.113	-0.083	-0.064	-0.240	11111	1.41	39059.8155	3
1567	3.714	-0.092	-0.075	-0.083	-0.258	11111	1.32	39473.7007	1
1568	4.508	-0.036	-0.023	0.007	-0.004	11111	1.17	39059.8261	3
1568	4.501	0.038	0.006	-0.013	-0.046	11111	1.07	39459.8259	1
1570	4.715	0.021	-0.009	0.036	0.126	11111	1.21	39059.8372	3
1570	4.687	0.034	0.026	-0.006	0.109	11111	1.13	39472.7370	1
1577	3.149	1.121	0.712	0.680	2.267	11111	1.07	39059.8469	3
1577	3.051	1.130	0.731	0.648	2.231	11111	1.23	39474.6627	1
1580	4.429	0.873	0.537	0.520	1.608	11111	1.13	39059.8560	3
1580	4.394	0.880	0.563	0.492	1.595	11111	1.12	39457.7698	1
1592	5.012	0.016	0.008	-0.006	0.038	11111	1.04	39059.8659	3
1592	4.902	0.002	0.011	-0.014	0.045	11111	1.28	39474.6502	1
1601	4.815	1.027	0.630	0.641	2.027	11111	1.23	38705.9386	3
1601	4.839	1.025	0.679	0.630	2.013	11111	1.17	39500.7191	1
1603	4.293	0.673	0.407	0.448	1.142	11111	1.13	39059.9169	3
1603	4.209	0.668	0.410	0.441	1.150	11111	1.32	39473.6588	1
1605	3.119	0.494	0.286	0.317	0.512	11111	1.02	38702.8908	3
1605	3.128	0.505	0.303	0.308	0.505	11111	1.03	38704.8595	3
1605	3.177	0.512	0.288	0.301	0.549	11111	1.04	38751.7232	3
1605	3.150	0.479	0.285	0.294	0.534	11111	1.03	38752.7340	3
1605	3.129	0.389	0.237	0.322	0.532	11111	1.03	38789.6306	1
1605	3.185	0.464	0.264	0.321	0.557	11111	1.02	38791.6453	1
1605	3.125	0.448	0.267	0.308	0.528	11111	1.03	39172.6317	3
1605	3.115	0.476	0.293	0.298	0.500	11111	1.05	39406.9212	1
1611	4.881	0.229	0.123	0.121	0.294	11111	1.42	39059.9280	3
1611	4.844	0.228	0.153	0.106	0.305	11111	1.41	39468.8033	1
1612	4.179	1.127	0.693	0.571	1.425	11111	1.02	39059.9386	3
1612	4.109	1.098	0.691	0.571	1.409	11111	1.02	39172.6415	3
1612	4.128	1.138	0.728	0.558	1.396	11111	1.03	39406.9341	1
1617	4.821	-0.126	-0.076	-0.067	-0.237	11111	1.32	39059.9490	3
1617	4.779	-0.112	-0.069	-0.073	-0.229	11111	1.30	39500.7053	1
1620	4.675	0.128	0.104	0.049	0.193	11111	1.03	38752.7921	3
1620	0.000	0.123	0.072	0.058	0.204	01111	1.03	38791.6813	1
1621	4.916	-0.043	-0.019	-0.018	-0.059	11111	1.71	39059.9584	3
1621	4.891	-0.030	-0.015	-0.032	-0.074	11111	1.65	39499.7006	1
1637	5.024	0.285	0.173	0.151	0.361	11111	1.06	39042.9733	3
1637	5.081	0.274	0.134	0.149	0.387	11111	1.06	39154.6740	3
1638	4.700	0.018	0.030	-0.063	-0.097	11111	1.05	39042.9836	3
1638	4.666	0.006	0.029	-0.066	-0.103	11111	1.06	39173.6402	3
1641	3.147	-0.117	-0.048	-0.084	-0.242	11111	1.01	39044.9714	3
1641	3.161	-0.092	-0.053	-0.099	-0.242	11111	1.03	39173.6493	3
1657	5.109	-0.032	0.005	-0.054	-0.100	11111	1.26	39044.9810	3
1657	5.095	-0.025	-0.015	-0.061	-0.092	11111	1.31	39173.6586	3
1666	2.856	0.126	0.054	0.061	0.153	11111	1.36	38786.7321	1
1666	2.837	0.095	0.033	0.030	0.175	11111	1.29	38791.6920	1
1676	4.890	0.267	0.192	0.144	0.350	11111	1.06	39044.9909	3
1676	4.894	0.288	0.189	0.113	0.352	11111	1.10	39173.6677	3
1679	4.250	-0.091	-0.068	-0.074	-0.245	11111	1.33	39051.9486	3
1679	4.245	-0.100	-0.055	-0.083	-0.274	11111	1.45	39173.6765	3
1689	4.897	0.146	0.078	0.072	0.260	11111	1.01	39051.9589	3
1689	4.867	0.148	0.098	0.067	0.237	11111	1.07	39173.6852	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
1696	4.432	-0.062	-0.043	-0.045	-0.103	11111	1.41	39051.9695	3
1696	4.424	-0.073	-0.042	-0.055	-0.154	11111	1.45	39174.6528	3
1698	4.752	0.864	0.551	0.505	1.692	11111	1.17	39051.9803	3
1698	4.742	0.862	0.559	0.484	1.649	11111	1.20	39174.6623	3
1702	3.263	-0.060	-0.053	-0.060	-0.159	11111	1.51	39052.9505	3
1702	3.280	-0.060	-0.034	-0.065	-0.167	11111	1.64	39174.6712	3
1705	4.332	-0.058	-0.053	-0.037	-0.129	11111	1.42	39052.9417	3
1705	4.367	-0.035	-0.027	-0.052	-0.163	11111	1.58	39174.6805	3
1708	0.247	0.615	0.389	0.376	1.009	11111	1.04	39019.0153	3
1708	0.246	0.615	0.375	0.336	1.004	11111	1.12	39174.6998	3
1713	0.182	0.052	0.005	0.024	-0.117	11111	1.44	38751.7091	3
1713	0.163	0.042	0.016	0.005	-0.112	11111	1.32	38752.7569	3
1713	0.180	0.012	-0.003	0.073	-0.084	11111	1.34	38764.7124	1
1713	0.181	0.035	0.028	-0.010	-0.119	11111	1.32	39406.9618	1
1726	4.905	0.996	0.645	0.519	1.769	11111	1.01	38751.8007	3
1726	4.897	0.992	0.638	0.535	1.764	11111	1.02	38752.8045	3
1729	4.853	0.526	0.321	0.270	0.745	11111	1.03	38751.8145	3
1729	4.864	0.478	0.296	0.266	0.722	11111	1.03	39175.6571	3
1729	4.875	0.530	0.324	0.269	0.725	11111	1.01	39409.9731	3
1735	3.572	-0.078	-0.079	-0.052	-0.163	11111	1.29	39052.9602	3
1735	3.577	-0.064	-0.032	-0.081	-0.177	11111	1.32	39175.6478	3
1756	4.248	-0.177	-0.118	-0.090	-0.312	11111	1.44	39052.9692	3
1756	4.257	-0.152	-0.095	-0.098	-0.347	11111	1.45	39175.6390	3
1765	4.686	-0.129	-0.093	-0.061	-0.232	11111	1.18	39053.9433	3
1765	4.696	-0.127	-0.082	-0.069	-0.223	11111	1.24	39175.6680	3
1770	4.998	-0.083	-0.045	-0.062	-0.233	11111	1.20	38705.9548	3
1770	4.952	-0.093	-0.080	-0.056	-0.237	11111	1.14	39053.9521	3
1770	4.978	-0.074	-0.038	-0.060	-0.215	11111	1.21	39501.6688	1
1781	5.669	-0.139	-0.093	-0.092	-0.283	11111	1.18	39053.9616	3
1781	5.648	-0.147	-0.100	-0.089	-0.261	11111	1.27	39175.6774	3
1784	4.346	0.696	0.424	0.439	1.245	11111	1.32	39053.9713	3
1784	4.373	0.730	0.453	0.412	1.215	11111	1.46	39501.6559	1
1788	3.310	1.702	-0.063	-0.079	-0.292	10111	1.22	38708.9013	3
1788	3.323	-0.079	-0.036	-0.057	-0.248	11111	1.28	38787.7300	1
1788	3.350	-0.087	-0.058	-0.076	-0.275	11111	1.22	39408.9730	3
1789	4.922	-0.129	-0.080	-0.102	-0.303	11111	1.16	39054.9375	3
1789	4.954	-0.114	-0.062	-0.070	-0.278	11111	1.21	39501.6807	1
1790	1.560	-0.176	-0.123	-0.098	-0.312	11111	1.13	38708.9258	3
1790	1.628	-0.122	-0.075	-0.105	-0.298	11111	1.14	39501.6926	1
1791	1.638	-0.078	-0.048	-0.079	-0.909	11110	1.06	38708.9581	3
1791	1.671	-0.047	-0.063	-0.049	-0.176	11111	1.01	39440.9085	1
1810	4.826	-0.137	-0.085	-0.053	-0.250	11111	1.10	38708.9682	3
1810	4.858	-0.087	-0.062	-0.045	-0.195	11111	1.02	39499.7449	1
1811	4.530	-0.142	-0.095	-0.090	-0.281	11111	1.15	39054.9492	3
1811	4.565	-0.120	-0.076	-0.082	-0.278	11111	1.16	39501.7042	1
1829	3.006	0.609	0.358	0.370	1.024	11111	1.67	39054.9599	3
1829	2.988	0.621	0.377	0.374	1.025	11111	1.71	39476.7659	1
1839	4.192	-0.089	-0.046	-0.091	-0.186	11111	1.12	39054.9702	3
1839	4.195	-0.089	-0.067	-0.069	-0.193	11111	1.20	39504.6603	1
1843	4.767	0.274	0.130	0.225	0.280	11111	1.00	39055.9448	3
1843	4.824	0.221	0.090	0.204	0.287	11111	1.20	39474.6942	1
1845	4.987	1.586	0.875	1.123	2.982	11111	1.03	39055.9566	3
1845	4.895	1.594	0.927	1.091	2.946	11111	1.04	39499.7572	1
1852	2.164	-0.155	-0.114	-0.089	-0.301	11111	1.18	39055.9659	3
1852	2.208	-0.119	-0.091	-0.073	-0.293	11111	1.24	39504.6731	1
1855	4.579	-0.119	-0.075	-0.099	-0.338	11111	2.18	38705.7684	3
1855	4.581	-0.185	-0.094	-0.096	-0.353	11111	1.31	38705.9267	3
1855	4.584	-0.167	-0.097	-0.093	-0.318	11111	2.70	38708.7395	3
1855	4.566	-0.151	-0.121	-0.069	-0.333	11111	1.30	38708.9148	3
1855	4.599	-0.146	-0.081	-0.104	-0.361	11111	1.92	38751.6584	3
1855	4.553	-0.187	-0.102	-0.078	-0.323	11111	1.94	38752.6542	3
1855	4.557	-0.152	-0.071	-0.100	-0.330	11111	1.34	38752.7440	3
1855	4.597	-0.147	-0.093	-0.126	-0.364	11111	1.38	38764.6973	1
1855	4.540	-0.187	-0.151	-0.084	-0.314	11111	1.31	38786.7053	1
1855	4.523	-0.191	-0.122	-0.095	-0.330	11111	1.31	38787.7071	1
1855	4.526	-0.186	-0.124	-0.099	-0.337	11111	1.30	38789.6679	1
1855	4.578	-0.163	-0.098	-0.107	-0.344	11111	2.67	38839.7055	3
1855	4.587	-0.176	-0.106	-0.100	-0.338	11111	2.39	39016.9069	3
1855	4.617	-0.147	-0.087	-0.102	-0.336	11111	2.03	39018.9193	3
1855	4.671	-0.089	0.037	0.019	-0.152	11111	3.74	39019.8665	3
1855	4.579	-0.169	-0.119	-0.066	-0.304	11111	2.14	39019.9104	3
1855	4.605	-0.118	-0.062	-0.110	-0.351	11111	1.31	39026.0191	3
1855	4.600	-0.147	-0.088	-0.098	-0.337	11111	2.24	39026.8861	3
1855	4.588	-0.154	-0.089	-0.098	-0.341	11111	1.30	39027.0208	3
1855	4.579	-0.173	-0.091	-0.092	-0.294	11111	2.20	39028.8824	3
1855	4.604	-0.142	-0.071	-0.098	-0.329	11111	1.30	39029.0127	3
1855	4.586	-0.156	-0.096	-0.085	-0.331	11111	2.17	39029.8814	3
1855	4.578	-0.158	-0.086	-0.106	-0.349	11111	1.32	39043.0159	3
1855	4.571	-0.158	-0.073	-0.113	-0.361	11111	1.35	39045.0238	3
1855	4.580	-0.165	-0.092	-0.102	-0.324	11111	2.49	39045.8236	3
1855	4.552	-0.164	-0.111	-0.096	-0.334	11111	2.22	39050.8214	3
1855	4.568	-0.173	-0.112	-0.099	-0.334	11111	1.35	39052.0049	3
1855	4.552	-0.190	-0.130	-0.081	-0.312	11111	1.31	39052.9779	3
1855	4.575	-0.189	-0.109	-0.098	-0.337	11111	1.32	39053.9816	3
1855	4.566	-0.178	-0.103	-0.099	-0.329	11111	1.32	39054.9801	3
1855	4.603	-0.152	-0.089	-0.115	-0.347	11111	2.48	39055.7968	3
1855	4.542	-0.179	-0.127	-0.103	-0.349	11111	1.35	39055.9932	3
1855	4.570	-0.118	-0.101	-0.111	-0.366	11111	1.40	39057.0063	3
1855	4.571	-0.150	-0.083	-0.132	-0.365	11111	1.34	39057.9817	3
1855	4.576	-0.170	-0.088	-0.101	-0.346	11111	1.30	39084.8684	1
1855	4.568	-0.156	-0.095	-0.105	-0.339	11111	1.32	39135.7062	1
1855	4.583	-0.169	-0.100	-0.080	-0.326	11111	1.30	39139.7091	3
1855	4.653	-0.175	-0.111	-0.095	-0.336	01111	2.29	39150.8392	3
1855	4.568	-0.164	-0.092	-0.097	-0.339	11111	1.32	39151.7165	3
1855	4.523	-0.164	-0.101	-0.092	-0.325	11111	2.34	39151.8385	3
1855	4.582	-0.169	-0.088	-0.094	-0.318	11111	1.31	39154.6635	3
1855	4.554	-0.179	-0.110	-0.092	-0.325	11111	2.31	39154.8289	3
1855	4.587	-0.133	-0.088	-0.109	-0.344	11111	1.39	39171.6908	1
1855	4.567	-0.190	-0.106	-0.114	-0.355	11111	1.31	39172.6182	3
1855	4.570	-0.169	-0.090	-0.111	-0.359	11111	2.23	39172.7760	3
1855	4.555	-0.166	-0.098	-0.107	-0.341	11111	1.31	39173.6090	3
1855	4.578	-0.161	-0.091	-0.098	-0.343	11111	2.23	39173.7735	3
1855	4.565	-0.181	-0.104	-0.104	-0.359	11111	1.32	39174.6022	3
1855	4.621	-0.164	-0.095	-0.079	-0.327	11111	2.31	39174.7744	3
1855	4.557	-0.189	-0.124	-0.088	-0.319	11111	1.30	39175.6283	3
1855	4.567	-0.172	-0.100	-0.096	-0.335	11111	2.34	39175.7729	3
1855	4.540	-0.175	-0.104	-0.112	-0.351	11111	1.30	39176.6331	3
1855	4.620	-0.171	-0.108	-0.098	-0.345	11111	2.21	39176.7644	3
1855	4.562	-0.197	-0.121	-0.104	-0.343	11111	1.30	39178.6096	1
1855	4.533	-0.205	-0.137	-0.082	-0.338	11111	1.30	39184.5921	1
1855	4.585	-0.174	-0.096	-0.078	-0.316	11111	1.39	39197.6182	3
1855	4.612	-0.201	-0.113	-0.091	-0.339	11111	1.35	39199.6015	3
1855	4.553	-0.193	-0.107	-0.102	-0.352	11111	1.39	39202.6046	3
1855	4.584	-0.163	-0.099	-0.100	-0.337	11111	2.79	39202.7152	3
1855	4.574	-0.167	-0.095	-0.092	-0.343	11111	1.35	39406.9473	1
1855	4.569	-0.172	-0.099	-0.112	-0.354	11111	2.30	39408.8375	3
1855	4.562	-0.165	-0.115	0.000	0.000	11100	1.30	39408.9807	3
1855	4.602	-0.157	-0.081	-0.105	-0.334	11111	2.38	39409.8312	3
1855	4.593	-0.142	-0.091	-0.082	-0.325	11111	1.31	39409.9610	3
1855	4.599	-0.130	-0.089	-0.088	-0.334	11111	1.31	39411.9586	1
1855	0.000	0.000	-0.096	-0.100	0.000	00110	1.30	39433.9176	0
1855	4.596	-0.131	-0.077	-0.119	-0.364	11111	1.30	39440.8934	1
1855	4.551	-0.180	-0.096	-0.079	-0.315	11111	1.49	39441.8182	1
1855	4.555	-0.168	-0.107	-0.102	-0.349	11111	1.31	39442.8726	1
1855	4.571	-0.148	-0.097	-0.096	-0.343	11111	1.36	39443.8439	1
1855	4.607	-0.123	-0.076	-0.099	-0.348	11111	1.30	39459.8571	1
1855	4.589	-0.143	-0.083	-0.109	-0.340	11111	1.38	39468.8728	1
1855	4.576	-0.165	-0.083	-0.102	-0.332	11111	1.51	39470.7352	1
1855	4.557	-0.170	-0.114	-0.097	-0.334	11111	1.31	39470.8331	1
1855	0.000	-0.158	-0.102	-0.088	-0.015	01111	1.45	39471.7431	1
1855	4.572	-0.167	-0.105	-0.100	-0.329	11111	1.31	39473.7914	1
1855	4.604	-0.145	-0.075	-0.101	-0.354	11111	1.33	39474.7747	1
1855	4.544	-0.199	-0.116	-0.094	-0.328	11111	1.93	39482.6568	3
1855	4.571	-0.164	-0.097	-0.109	-0.334	11111	2.31	39487.6219	3
1855	4.580	-0.135	-0.090	-0.104	-0.335	11111	1.34	39487.7402	3
1855	4.551	-0.182	-0.108	-0.102	-0.326	11111	2.40	39488.6151	3
1855	4.549	-0.169	-0.109	-0.086	-0.320	11111	1.30	39488.7754	3
1855	4.588	-0.154	-0.090	-0.106	-0.360	11111	1.32	39499.7133	1
1855	4.589	-0.148	-0.093	-0.112	-0.352	11111	1.30	39504.7257	1
1855	4.596	-0.140	-0.096	-0.116	-0.344	11111	1.34	39505.6840	1
1855	4.568	-0.157	-0.095	-0.098	-0.343	11111	1.40	39506.6593	1
1855	4.584	-0.164	-0.091	-0.098	-0.331	11111	1.34	39506.7527	1
1855	4.593	-0.155	-0.083	-0.107	-0.354	11111	1.42	39507.7781	1
1855	4.602	-0.168	-0.118	-0.096	-0.345	11111	1.31	39508.6939	1
1855	4.586	-0.151	-0.101	-0.098	-0.329	11111	1.42	39509.7716	1
1861	5.298	-0.076	-0.093	-0.094	-0.292	11111	1.21	39056.9363	3
1861	5.311	-0.104	-0.073	-0.074	-0.255	11111	1.24	39504.6857	1
1865	2.654	0.240	0.123	0.061	0.197	11111	1.56	39056.9461	3
1865	2.645	0.208	0.137	0.089	0.221	11111	1.69	39476.7451	1
1868	5.319	-0.073	-0.078	-0.098	-0.277	11111	1.20	39056.9565	3
1868	5.342	-0.080	-0.060	-0.080	-0.245	11111	1.20	39468.8197	1
1876	4.376	-0.065	-0.035	-0.031	-0.216	11111	1.11	38752.8169	3
1876	4.391	-0.079	-0.057	-0.040	-0.221	11111	1.10	39504.7029	1
1879	3.364	-0.065	-0.032	-0.087	-0.293	11111	1.08	39057.9518	3
1879	3.406	-0.046	-0.042	-0.070	-0.269	11111	1.08	39468.8331	1
1887	4.707	-0.190	-0.110	-0.107	-0.343	11111	1.28	39057.9623	3
1887	4.739	-0.166	-0.097	-0.086	-0.317	11111	1.28	39504.7405	1
1892	4.554	-0.122	-0.077	-0.085	-0.284	11111	1.27	39057.9726	3
1892	4.566	-0.096	-0.072	-0.069	-0.251	11111	1.28	39504.7516	1
1893	4.659	0.282	0.055	0.063	-0.041	11111	1.68	39060.8296	3
1893	4.593	0.236	0.036	0.082	-0.025	11111	1.27	39154.6887	3
1897	5.064	0.033	0.026	-0.014	-0.177	11111	1.39	39171.7033	1
1897	5.095	0.073	0.029	-0.035	-0.176	11111	1.38	39505.6605	1
1899	2.770	-0.120	-0.072	-0.102	-0.334	11111	1.57	39060.8451	3
1899	2.755	-0.110	-0.103	-0.098	-0.330	11111	1.34	39505.6748	1
1901	5.362	0.259	0.144	0.102	0.288	11111	1.45	39060.8596	3
1901	5.317	0.223	0.132	0.111	0.301	11111	1.32	39506.6706	1
1903	1.722	-0.072	-0.054	-0.057	-0.261	11111	1.46	39061.8419	3
1903	1.677	-0.088	-0.055	-0.046	-0.250	11111	1.24	39506.6829	1

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
1907	4.328	0.753	0.458	0.431	1.197	11111	1.25	39061.8517	3
1907	4.337	0.763	0.463	0.425	1.198	11111	1.09	39507.7057	1
1908	6.353	1.250	0.767	0.686	2.313	11111	1.20	39061.8619	3
1908	0.000	0.000	0.797	0.675	2.290	00111	1.09	39499.7725	1
1910	2.972	-0.025	-0.081	-0.064	-0.256	11111	1.07	39061.8835	3
1910	2.946	-0.011	-0.054	-0.060	-0.274	11111	1.03	39440.9307	1
1931	3.720	-0.124	-0.091	-0.076	-0.296	11111	1.24	39061.9100	3
1931	3.731	-0.125	-0.066	-0.080	-0.286	11111	1.23	39506.7083	1
1934	4.574	-0.007	-0.036	-0.011	-0.178	11111	1.14	39061.9196	3
1934	4.569	-0.010	-0.020	-0.022	-0.160	11111	1.14	39506.7199	1
1937	4.819	0.105	0.054	0.047	0.159	11111	1.30	39061.9294	3
1937	4.828	0.092	0.071	0.048	0.183	11111	1.32	39506.6940	1
1946	4.844	-0.062	-0.031	-0.046	-0.202	11111	1.04	39061.9393	3
1946	4.841	-0.065	-0.045	-0.053	-0.177	11111	1.04	39473.8297	1
1948	1.736	-0.097	-0.066	-0.083	-0.303	11111	1.21	39061.9487	3
1948	1.759	-0.087	-0.053	-0.063	-0.280	11111	1.21	39506.7315	1
1963	5.217	0.886	0.572	0.491	1.553	11111	1.18	39084.9028	1
1963	5.210	0.891	0.576	0.505	1.577	11111	1.17	39506.7424	1
1995	4.777	0.706	0.441	0.429	1.242	11111	1.01	39135.7313	1
1995	4.744	0.705	0.434	0.437	1.243	11111	1.18	39479.6957	1
1998	3.540	0.071	0.033	0.022	0.132	11111	1.47	39135.7416	1
1998	3.666	-0.021	-0.016	-0.013	0.107	11111	1.47	39474.8185	1
2004	2.029	-0.081	-0.057	-0.053	0.000	11110	1.35	39135.7512	1
2004	2.077	-0.052	-0.063	-0.031	-0.219	11111	1.60	39376.0010	1
2010	4.873	-0.061	-0.026	-0.042	-0.086	11111	1.07	39135.7608	1
2010	4.898	-0.049	-0.034	-0.040	-0.074	11111	1.07	39501.7579	1
2011	5.217	1.259	0.766	0.705	2.422	11111	1.02	39138.7070	3
2011	5.205	1.297	0.796	0.695	2.409	11111	1.01	39468.8471	1
2012	4.264	0.825	0.486	0.493	1.558	11111	1.01	39138.7166	3
2012	4.265	0.846	0.535	0.487	1.542	11111	1.02	39468.8601	1
2018	6.658	1.376	0.767	0.822	2.537	11111	1.00	39138.7304	3
2018	6.753	1.374	0.728	0.860	2.571	11111	1.00	39507.7201	1
2029	5.004	0.018	0.010	0.017	0.061	11111	1.09	39138.7402	3
2029	5.009	0.018	0.029	0.003	0.065	11111	1.09	39476.8177	1
2034	4.604	0.012	0.014	-0.015	-0.035	11111	1.01	39138.7503	3
2034	4.599	0.007	0.001	-0.027	-0.029	11111	1.00	39507.7347	1
2035	4.001	0.757	0.466	0.459	1.254	11111	1.69	39138.7598	3
2035	3.994	0.758	0.473	0.445	1.267	11111	1.71	39476.7828	1
2047	4.533	0.484	0.302	0.264	0.686	11111	1.07	39140.6811	3
2047	4.547	0.495	0.292	0.272	0.715	11111	1.02	39473.8143	1
2061	0.895	1.405	0.824	0.979	2.775	11111	1.25	38786.7867	1
2061	0.802	1.393	0.793	2.177	2.720	11111	1.17	38787.7580	1
2061	0.743	1.342	0.775	1.012	2.707	11111	1.17	38789.6415	1
2061	0.807	1.359	0.778	1.002	2.732	11111	1.11	38791.6713	1
2061	1.102	1.370	0.748	1.017	2.618	11111	1.19	39171.7142	1
2061	1.046	1.404	0.775	1.010	2.684	11111	1.12	39406.9757	1
2077	3.997	0.761	0.467	0.441	1.324	11111	1.10	39140.6918	3
2077	3.939	0.754	0.476	0.448	1.355	11111	1.17	39479.7196	1
2084	4.834	-0.024	-0.004	-0.002	-0.151	11111	1.05	38705.9791	3
2084	4.781	-0.018	-0.037	0.025	-0.150	11111	1.04	38789.6551	1
2085	3.799	0.286	0.175	0.144	0.372	11111	1.47	39140.7153	3
2085	3.836	0.218	0.122	0.146	0.383	11111	1.46	39474.8060	1
2088	1.935	-0.004	0.023	-0.009	0.041	11111	1.03	39140.7292	3
2088	1.921	-0.013	-0.009	-0.010	0.064	11111	1.02	39154.7053	3
2091	4.738	1.313	0.672	0.902	2.405	11111	1.07	39140.7961	3
2091	4.745	1.327	0.678	0.910	9.474	11110	1.10	39479.7351	1
2095	2.634	-0.009	0.031	-0.065	-0.122	11111	1.01	38752.8287	3
2095	2.553	-0.038	-0.012	-0.081	-0.127	11111	1.01	38789.6823	1
2113	4.840	0.941	0.603	0.525	1.660	11111	1.36	39140.8077	3
2113	4.870	0.969	0.606	0.516	1.647	11111	1.23	39507.7470	1
2124	4.156	0.147	0.090	0.053	0.218	11111	1.15	38705.9897	3
2124	4.140	0.106	0.045	0.072	0.215	11111	1.09	38789.6943	1
2124	4.187	0.149	0.096	0.051	0.199	11111	1.09	39504.7655	1
2128	4.935	-0.061	-0.040	-0.055	-0.172	11111	1.40	39052.0162	3
2128	4.977	-0.047	-0.043	-0.065	-0.197	11111	1.39	39172.6824	3
2134	4.372	0.654	0.407	0.355	1.065	11111	1.09	38705.9993	3
2134	4.364	0.652	0.403	0.350	1.046	11111	1.01	38789.7049	1
2135	4.684	0.245	0.126	0.218	0.241	11111	1.03	39052.9995	3
2135	4.680	0.256	0.133	0.214	0.226	11111	1.03	39184.6314	1
2148	0.000	0.000	0.140	0.112	0.167	00111	1.56	39054.0117	3
2148	5.004	0.293	0.103	0.136	0.172	11111	1.53	39184.6411	1
2148	5.009	0.334	0.137	0.135	0.171	11111	1.54	39506.7665	1
2155	4.694	0.005	0.008	0.005	0.050	11111	1.53	39054.0206	3
2155	4.675	0.008	-0.016	0.026	0.069	11111	1.50	39184.6510	1
2159	4.396	-0.086	-0.045	-0.087	-0.228	11111	1.06	39055.0049	3
2159	4.405	-0.085	-0.064	-0.074	-0.219	11111	1.06	39501.7818	1
2198	4.945	-0.066	-0.044	-0.072	-0.220	11111	1.06	39055.0138	3
2198	4.966	-0.068	-0.055	-0.065	-0.184	11111	1.06	39501.7926	1
2199	4.454	-0.057	-0.066	-0.101	-0.251	11111	1.05	39056.9787	3
2199	4.460	-0.088	-0.067	-0.056	-0.214	11111	1.10	39501.8078	1
2209	4.770	-0.008	-0.003	-0.020	0.001	11111	1.26	39058.0100	3
2209	4.749	-0.003	-0.007	-0.033	0.022	11111	1.44	39227.6494	3
2216	3.593	1.274	0.662	0.753	2.219	11111	1.02	39056.9887	3
2216	3.593	1.249	0.693	0.796	2.307	11111	1.02	39476.8371	1
2216	3.630	1.218	0.681	0.749	2.237	11111	1.03	39506.7785	1
2219	4.553	0.791	0.461	0.443	1.314	11111	1.01	39056.9973	3
2219	0.000	0.776	0.478	0.000	1.333	01101	1.00	39433.9508	0
2219	4.578	0.781	0.491	0.460	1.333	11111	1.03	39506.7902	1
2227	4.283	0.969	0.616	0.572	1.892	11111	1.29	39057.9904	3
2227	4.311	0.990	0.614	0.587	1.881	11111	1.32	39473.8742	1
2238	4.572	0.025	0.026	-0.026	0.025	11111	1.12	39135.7843	1
2238	4.464	0.027	-0.005	0.003	0.042	11111	1.15	39506.8036	1
2240	6.376	0.421	0.242	0.284	0.428	11111	1.01	39139.7592	3
2240	6.387	0.427	0.261	0.282	0.417	11111	1.03	39500.8024	1
2244	4.989	-0.045	-0.023	-0.058	-0.127	11111	1.46	39057.9988	3
2244	5.018	-0.009	-0.011	-0.047	-0.117	11111	1.45	39507.7623	1
2286	3.314	1.241	0.657	0.823	2.387	11111	1.02	39139.7704	3
2286	3.328	1.272	0.671	0.815	2.393	11111	1.05	39500.8144	1
2294	1.968	-0.136	-0.090	-0.096	-0.313	11111	1.59	39139.7809	3
2294	0.000	0.000	-0.086	-0.085	0.000	00110	1.62	39433.9897	0
2294	1.943	-0.147	-0.083	-0.102	-0.313	11111	1.64	39507.7934	1
2298	4.350	0.186	0.117	0.087	0.251	11111	1.14	38787.7462	1
2298	4.329	0.148	0.111	0.102	0.280	11111	1.20	39507.8059	1
2308	6.966	1.850	1.186	1.223	4.098	11111	1.09	39147.6899	3
2308	7.055	1.924	1.251	1.252	4.187	11111	1.10	39501.8212	1
2343	4.166	-0.041	-0.026	-0.068	-0.173	11111	1.08	39500.8289	1
2344	5.020	-0.121	-0.083	-0.058	-0.234	11111	1.27	39147.7118	3
2344	5.046	-0.095	-0.058	-0.077	-0.251	11111	1.38	39507.8201	1
2356	3.724	-0.005	-0.069	-0.084	-0.226	11111	1.30	39147.7228	3
2356	3.716	-0.026	-0.061	-0.074	-0.229	11111	1.34	39473.8891	1
2385	4.519	0.059	0.014	0.038	0.000	11111	1.10	39147.7345	3
2385	4.550	0.092	0.036	0.022	-0.044	11111	1.20	39501.8399	1
2392	6.477	0.756	0.462	0.504	1.502	11111	1.38	39147.7463	3
2392	6.517	0.758	0.480	0.515	1.519	11111	1.58	39507.8323	1
2421	1.966	0.027	0.019	-0.023	-0.002	11111	1.06	39147.7767	3
2421	1.948	-0.010	-0.011	-0.011	0.021	11111	1.04	39154.7249	3
2427	5.116	0.905	0.569	0.538	1.759	11111	1.10	39148.6650	3
2427	5.118	0.920	0.604	0.526	1.742	11111	1.11	39507.8460	1
2429	4.227	0.808	0.521	0.441	1.439	11111	1.70	39148.6966	3
2429	4.245	0.809	0.510	0.424	1.429	11111	1.71	39508.7078	1
2443	4.713	0.847	0.528	0.511	1.589	11111	1.63	39148.7061	3
2443	4.724	0.839	0.519	0.505	1.573	11111	1.63	39508.7205	1
2450	5.199	1.125	0.714	0.689	2.203	11111	1.46	39148.7245	3
2450	5.235	1.123	0.716	0.668	2.167	11111	1.47	39508.7333	1
2456	4.636	-0.139	-0.091	-0.072	-0.299	11111	1.08	39148.7379	3
2456	4.646	-0.117	-0.079	-0.093	-0.335	11111	1.08	39504.7801	1
2467	6.289	0.033	0.025	-0.004	-0.141	01111	1.22	39150.6708	3
2467	6.396	0.027	0.017	0.003	-0.121	11111	1.12	39504.7927	1
2470	4.808	0.034	0.012	0.032	0.112	01111	1.16	39150.6823	3
2470	4.896	0.058	0.035	0.015	0.097	11111	1.15	39506.8157	1
2473	3.246	0.935	0.614	0.660	2.022	01111	1.05	39150.6926	3
2473	3.357	0.961	0.626	0.672	2.015	11111	1.01	39501.7702	1
2478	4.702	0.824	0.536	0.511	1.628	01111	1.09	39150.7022	3
2478	4.813	0.908	0.582	0.506	1.605	11111	1.08	39504.8044	1
2484	3.388	0.364	0.182	0.201	0.511	01111	1.07	39150.7149	3
2484	3.542	0.403	0.224	0.198	0.485	11111	1.08	39440.9805	1
2491	-1.436	-0.045	-0.032	-0.034	-0.005	11111	1.52	39053.0085	3
2491	-1.405	-0.023	-0.004	-0.056	-0.010	11111	1.52	39154.7352	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
2506	4.740	0.798	0.485	0.500	1.548	11111	1.16	39151.7626	3
2506	4.753	0.817	0.530	0.492	1.530	11111	1.24	39504.8345	1
2527	4.946	1.094	0.745	0.543	1.986	11111	1.49	39151.6438	3
2527	4.970	1.103	0.696	0.516	1.994	11111	1.44	39506.8413	1
2540	3.687	0.106	0.058	0.031	0.118	11111	1.08	39151.6727	3
2540	3.664	0.115	0.070	0.020	0.115	11111	1.12	39506.8602	1
2560	4.596	0.670	0.433	0.383	1.066	11111	1.21	39151.6538	3
2560	4.573	0.672	0.421	0.368	1.090	11111	1.14	39506.8273	1
2564	4.748	0.285	0.170	0.148	0.353	11111	1.13	39151.6845	3
2564	4.752	0.294	0.186	0.149	0.353	11111	1.15	39504.8466	1
2571	4.755	-0.145	-0.080	-0.068	-0.305	11111	1.66	39151.7259	3
2571	4.804	-0.130	-0.096	-0.079	-0.297	11111	1.66	39508.7476	1
2574	4.461	1.148	0.732	0.590	2.068	11111	1.40	39151.7531	3
2574	4.489	1.162	0.733	0.579	2.067	11111	1.40	39473.8589	1
2585	4.955	0.032	0.025	0.057	0.008	11111	1.12	39151.6633	3
2585	4.929	0.003	0.016	0.002	0.009	11111	1.04	39172.7227	3
2590	4.723	0.331	0.192	0.171	0.408	11111	1.65	39151.7345	3
2590	4.764	0.317	0.193	0.172	0.407	11111	1.64	39508.7614	1
2596	4.384	0.009	-0.014	0.001	-0.125	11111	1.53	39151.7434	3
2596	4.376	0.005	-0.013	0.000	-0.126	11111	1.54	39508.7792	1
2648	4.946	-0.114	-0.073	-0.079	-0.271	11111	1.24	39052.0261	3
2648	4.993	-0.069	-0.066	-0.067	-0.280	11111	1.24	39061.9979	3
2650	4.441	0.702	0.449	0.483	1.320	11111	1.02	38786.7475	1
2650	3.946	0.550	0.364	0.349	0.919	11111	1.04	38789.7809	1
2650	3.838	0.533	0.310	0.344	0.949	11111	1.04	38791.7027	1
2650	4.094	0.592	0.380	0.373	1.003	11111	1.05	38839.6486	3
2650	4.097	0.611	0.389	0.325	0.942	11111	1.03	39154.7687	3
2650	3.939	0.582	0.357	0.365	1.000	11111	1.05	39178.7216	1
2657	4.100	-0.061	-0.035	-0.042	-0.157	11111	1.49	39053.0194	3
2657	4.115	-0.040	-0.025	-0.065	-0.173	11111	1.54	39174.7265	3
2697	4.711	0.952	0.595	0.566	1.861	11111	1.02	38752.8846	3
2697	4.699	0.923	0.597	0.521	1.802	11111	1.05	39174.7534	3
2701	5.175	0.750	0.479	0.435	1.324	11111	1.25	39054.0312	3
2701	5.154	0.764	0.471	0.425	1.318	11111	1.29	39174.7353	3
2714	4.187	0.069	0.051	-0.042	-0.043	11111	1.18	39055.0230	3
2714	4.177	0.028	0.022	-0.045	-0.038	11111	1.23	39174.7438	3
2751	5.031	0.092	0.030	0.028	0.083	11111	1.05	39056.0177	3
2751	5.025	0.097	0.065	-0.002	0.070	11111	1.10	39174.7638	3
2763	3.582	0.069	0.024	0.017	0.132	11111	1.04	39056.0275	3
2763	3.624	0.064	0.042	0.006	0.122	11111	1.04	39175.7051	3
2777	3.600	0.309	0.190	0.145	0.361	11111	1.02	38786.7596	1
2777	3.639	0.349	0.204	0.138	0.351	11111	1.03	38787.7752	1
2777	3.644	0.307	0.180	0.140	0.384	11111	1.02	38791.7354	1
2812	4.944	0.052	0.021	-0.023	-0.130	11111	1.60	39057.0160	3
2812	4.958	-0.015	-0.006	-0.016	-0.089	11111	1.62	39175.7233	3
2818	4.602	0.008	-0.017	-0.031	-0.046	11111	1.05	39057.0252	3
2818	4.624	-0.029	-0.025	-0.011	-0.019	11111	1.06	39175.7328	3
2821	4.037	0.763	0.466	0.428	1.335	11111	1.00	39058.0198	3
2821	4.061	0.780	0.463	0.427	1.332	11111	1.03	39175.7421	3
2845	2.848	-0.060	-0.065	-0.044	-0.141	11111	1.11	38751.8879	3
2845	2.847	-0.068	-0.058	-0.051	-0.115	11111	1.12	38789.7939	1
2845	2.889	-0.065	-0.050	-0.064	-0.135	11111	1.10	39202.6383	3
2852	4.266	0.269	0.165	0.148	0.369	11111	1.89	38751.6712	3
2852	4.239	0.273	0.151	0.137	0.360	11111	1.02	38751.8990	3
2852	4.241	0.254	0.125	0.144	0.357	11111	1.93	38752.6659	3
2852	4.232	0.286	0.139	0.161	0.366	11111	1.00	38791.7484	1
2852	4.230	0.143	0.047	0.238	0.444	11111	4.88	39019.8628	3
2852	4.248	0.290	0.175	0.138	0.349	11111	1.15	39030.0062	3
2852	4.278	0.305	0.165	0.130	0.363	11111	1.00	39052.0369	3
2852	4.255	0.276	0.159	0.147	0.361	11111	1.00	39053.0288	3
2852	4.263	0.281	0.155	0.134	0.348	11111	1.00	39054.0394	3
2852	4.256	0.300	0.160	0.142	0.345	11111	1.00	39055.0316	3
2852	4.260	0.280	0.154	0.132	0.347	11111	1.00	39056.0378	3
2852	4.231	0.292	0.160	0.140	0.351	11111	1.00	39057.0360	3
2852	4.252	0.287	0.171	0.128	0.348	11111	1.00	39058.0447	3
2852	4.297	0.307	0.179	0.141	0.364	11111	1.00	39084.9483	1
2852	4.286	0.297	0.167	0.132	0.355	11111	1.00	39135.8287	1
2852	4.284	0.304	0.148	0.141	0.332	11111	1.00	39140.8180	3
2852	4.303	0.278	0.173	0.137	0.333	11111	1.17	39148.6745	3
2852	4.281	0.298	0.160	0.133	0.345	11111	1.00	39154.7461	3
2852	4.255	0.275	0.164	0.146	0.356	11111	1.00	39173.7065	3
2852	4.240	0.259	0.168	0.126	0.343	11111	1.00	39174.7157	3
2852	4.259	0.267	0.164	0.147	0.380	11111	1.00	39175.7138	3
2852	4.196	0.270	0.140	0.159	0.365	11111	1.00	39176.7075	3
2852	4.251	0.271	0.153	0.143	0.353	11111	1.00	39178.7124	1
2852	4.249	0.265	0.146	0.164	0.360	11111	1.01	39184.7085	1
2852	4.291	0.249	0.152	0.153	0.362	11111	1.01	39206.5981	3
2852	4.244	0.269	0.149	0.169	0.375	11111	2.30	39206.8360	3
2852	4.240	0.258	0.145	0.164	0.363	11111	1.00	39207.6004	1
2852	4.290	0.219	0.137	0.160	0.358	11111	1.08	39227.6361	3
2852	4.286	0.212	0.167	0.144	0.369	11111	2.29	39227.7782	3
2852	4.356	0.218	0.153	0.131	0.340	11111	1.06	39229.6181	3
2852	4.233	0.274	0.164	0.139	0.361	11111	1.05	39442.0324	1
2852	4.276	0.277	0.176	0.144	0.361	11111	1.38	39470.0441	1
2852	4.265	0.280	0.170	0.150	0.399	11111	1.12	39471.9814	1
2852	4.297	0.281	0.143	0.119	0.321	11111	1.02	39474.8471	1
2852	4.228	0.264	0.161	0.146	0.353	11111	1.85	39482.6728	3
2852	4.266	0.294	0.179	0.161	0.380	11111	1.10	39487.7700	3
2852	4.274	0.295	0.171	0.134	0.353	11111	1.00	39499.8032	1
2852	4.261	0.285	0.164	0.147	0.370	11111	1.01	39500.8405	1
2852	4.284	0.308	0.173	0.144	0.373	11111	1.04	39504.8582	1
2852	4.270	0.283	0.167	0.150	0.372	11111	1.06	39507.8569	1
2852	4.238	0.268	0.163	0.167	0.402	11111	1.00	39508.7912	1
2854	4.696	1.128	0.712	0.590	2.050	11111	1.13	38751.9112	3
2854	4.657	1.080	0.717	0.612	2.085	11111	1.13	38789.8044	1
2854	4.714	1.111	0.701	0.598	2.018	11111	1.10	39202.6475	3
2864	4.860	0.941	0.603	0.577	1.836	11111	1.09	38752.8957	3
2864	4.868	0.912	0.584	0.564	1.823	11111	1.11	39175.7532	3
2864	4.849	0.939	0.597	0.560	1.822	11111	1.07	39206.6254	3
2891	0.000	0.000	0.015	-0.020	0.032	00111	1.69	38702.8237	3
2891	1.609	0.040	0.004	-0.003	0.040	11111	1.17	38702.8992	3
2891	1.607	0.047	0.009	-0.012	2.158	11110	1.05	38702.9447	3
2891	1.618	0.050	0.006	-0.009	0.036	11111	2.38	38704.7779	3
2891	1.598	0.023	0.023	-0.004	0.030	11111	1.29	38704.8679	3
2891	1.585	0.015	0.010	-0.004	0.044	11111	1.13	38704.9049	3
2891	1.605	0.029	0.024	-0.018	0.033	11111	1.05	38704.9397	3
2891	1.602	0.035	0.018	-0.011	0.030	11111	1.02	38704.9562	3
2891	1.581	0.002	0.005	0.000	0.048	11111	1.43	38705.8427	3
2891	1.602	0.037	0.031	-0.008	0.062	11111	1.00	38706.0095	3
2891	1.599	0.006	0.012	-0.030	0.007	11111	1.64	38708.8112	3
2891	1.591	0.028	0.028	-0.001	0.039	11111	1.01	38787.7962	1
2891	1.638	0.015	0.004	-0.008	0.027	11111	1.03	38791.7137	1
2891	1.589	0.024	0.015	-0.001	0.035	11111	1.05	38837.6901	1
2891	1.584	0.008	0.005	-0.012	0.027	11111	1.00	38839.6201	3
2891	1.569	0.036	0.014	-0.022	0.045	11111	1.12	38865.6458	1
2891	1.594	0.029	0.019	-0.009	0.029	11111	1.08	38866.6275	1
2891	1.598	0.001	0.004	-0.021	0.031	11111	1.01	39479.9043	1
2905	4.495	1.241	0.781	0.621	2.307	11111	1.00	39058.0283	3
2905	4.474	1.218	0.757	0.630	2.329	11111	1.01	39184.6622	1
2905	4.483	1.236	0.791	0.622	2.293	11111	1.01	39206.6370	3
2930	4.983	0.359	0.215	0.183	0.463	11111	1.00	39058.0366	3
2930	4.981	0.322	0.183	0.196	0.487	11111	1.00	39184.6722	1
2930	5.004	0.351	0.206	0.186	0.471	11111	1.00	39207.6226	1
2943	0.431	0.356	0.216	0.194	0.476	11111	1.16	39059.9895	3
2943	0.473	0.333	0.195	0.192	0.479	11111	1.13	39154.7574	3
2943	0.474	0.335	0.194	0.202	0.491	11111	1.13	39202.6597	3
2946	5.048	0.080	0.038	0.024	0.087	11111	1.13	39060.0000	3
2946	4.981	0.061	0.035	0.020	0.068	11111	1.12	39184.6832	1
2946	4.983	0.055	0.038	0.016	0.073	11111	1.12	39207.6330	1
2970	4.190	0.730	0.458	0.473	1.381	11111	1.39	39060.9858	3
2970	4.173	0.745	0.448	0.462	1.389	11111	1.34	39184.6988	1
2970	4.191	0.744	0.463	0.449	1.373	11111	1.35	39207.6435	1
2973	4.521	0.896	0.592	0.483	1.518	11111	1.00	38786.7737	1
2973	4.494	0.902	0.564	0.464	1.513	11111	1.00	38791.7596	1
2985	3.799	0.673	0.392	0.432	1.233	11111	1.14	39060.9417	3
2985	3.819	0.718	0.433	0.399	1.204	11111	1.01	39154.7786	3
2990	1.371	0.746	0.446	0.439	1.330	11111	1.73	38702.8320	3
2990	1.412	0.785	0.478	0.430	1.321	11111	1.18	38702.9068	3
2990	1.387	0.770	0.461	0.442	1.329	11111	1.05	38702.9527	3
2990	1.408	0.756	0.485	0.438	1.350	11111	2.49	38704.7868	3
2990	1.394	0.773	0.478	0.430	1.322	11111	1.30	38704.8763	3
2990	1.389	0.765	0.480	0.437	1.313	11111	1.14	38704.9129	3
2990	1.386	0.750	0.475	0.437	1.333	11111	1.05	38704.9480	3
2990	1.386	0.761	0.472	0.450	1.326	11111	1.03	38704.9643	3
2990	1.368	0.775	0.469	0.429	1.314	11111	1.94	38708.8017	3
2990	1.476	0.768	0.486	0.433	1.342	11111	1.01	38786.7990	1
2990	1.406	0.802	0.478	0.439	1.348	11111	1.00	38787.7690	1
2990	1.390	0.772	0.475	0.429	1.336	11111	1.05	38837.6986	1
2990	1.367	0.737	0.460	0.425	1.337	11111	1.01	38839.6589	3
2990	1.364	0.759	0.473	0.432	1.332	11111	1.14	38865.6576	1
2990	1.385	0.761	0.471	0.437	1.342	11111	1.11	38866.6450	1
2990	1.256	0.743	0.437	0.420	1.290	11111	1.14	38868.6483	1
2990	1.349	0.751	0.462	0.412	1.333	11111	1.10	38869.6321	1
2990	1.395	0.764	0.472	0.412	1.310	11111	1.02	39479.9201	1
3003	5.302	1.176	0.730	0.588	2.116	11111	1.11	39060.9621	3
3003	5.295	1.167	0.751	0.559	2.089	11111	1.03	39199.6436	3
3067	4.996	0.066	0.035	0.043	0.127	11111	1.12	39060.9522	3
3067	5.005	0.085	0.056	0.018	0.119	11111	1.00	39199.6536	3
3131	4.640	0.050	0.024	0.030	0.103	11111	1.66	39060.9963	3
3131	4.661	0.060	0.036	0.003	0.079	11111	1.58	39199.6635	3
3141	5.096	1.158	0.724	0.617	2.169	11111	1.31	39060.9753	3
3141	5.097	1.174	0.760	0.587	2.158	11111	1.21	39199.6746	3
3145	4.740	1.005	0.632	0.524	1.770	11111	1.17	38752.9110	3
3145	4.724	0.931	0.599	0.534	1.734	11111	1.16	39171.7279	1
3145	4.718	0.973	0.617	0.546	1.757	11111	1.15	39206.6491	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
3173	4.837	0.008	0.026	-0.011	0.021	11111	1.09	39084.9260	1
3173	4.875	-0.151	0.000	-0.052	-0.002	11111	1.06	39171.7398	1
3173	4.809	0.016	-0.011	0.009	0.031	11111	1.06	39206.6609	3
3188	4.579	0.695	0.464	0.461	1.262	11111	1.27	39084.9367	1
3188	4.583	0.691	0.438	0.448	1.247	11111	1.23	39172.7343	3
3188	4.578	0.712	0.439	0.465	1.274	11111	1.24	39206.6714	3
3192	4.406	-0.089	-0.025	-0.084	-0.219	11111	1.62	39084.9628	1
3192	4.374	-0.101	-0.060	-0.066	-0.224	11111	1.60	39172.7439	3
3192	4.397	-0.084	-0.054	-0.050	-0.202	11111	1.65	39206.6810	3
3211	4.969	0.718	0.479	0.402	1.235	11111	1.42	39084.9736	1
3211	4.947	0.695	0.439	0.410	1.245	11111	1.42	39172.7537	3
3211	4.968	0.709	0.444	0.395	1.241	11111	1.42	39207.6540	1
3249	3.936	1.162	0.734	0.623	2.193	11111	1.10	38751.9261	3
3249	3.936	1.141	0.747	0.632	2.212	11111	1.12	38752.9330	3
3249	4.020	1.202	0.765	0.628	2.201	11111	1.09	38786.8110	1
3249	3.946	1.150	0.753	0.622	2.189	11111	1.09	38787.8080	1
3249	3.964	1.165	0.783	0.604	2.181	11111	1.09	38791.7730	1
3249	3.929	1.147	0.756	0.627	2.195	11111	1.16	38839.7171	3
3249	3.935	1.141	0.722	0.612	2.190	11111	1.28	38872.6610	3
3249	3.896	1.137	0.730	0.620	2.187	11111	1.19	38874.6333	3
3249	3.926	1.134	0.724	0.627	2.181	11111	1.23	38875.6402	1
3249	3.917	1.142	0.717	0.616	2.179	11111	1.27	38877.6450	3
3249	3.931	1.130	0.737	0.629	2.198	11111	1.26	38878.6408	1
3249	3.993	1.161	0.745	0.603	2.159	11111	2.49	38887.7149	3
3249	3.955	1.143	0.732	0.633	2.190	11111	2.38	38888.7085	3
3249	3.950	1.153	0.739	0.621	2.166	11111	2.50	38889.7097	3
3249	3.931	1.161	0.738	0.628	2.192	11111	2.92	38890.7188	3
3249	3.968	1.199	0.764	0.596	2.184	11111	2.48	39016.9841	3
3249	3.932	1.147	0.759	0.638	2.178	11111	2.42	39025.9614	3
3249	3.957	1.180	0.771	0.604	2.155	11111	2.22	39026.9665	3
3249	3.954	1.186	0.763	0.618	2.182	11111	2.14	39028.9649	3
3249	4.045	1.218	0.783	0.629	2.220	11111	2.22	39029.9586	3
3249	3.955	1.159	0.743	0.620	2.178	11111	2.47	39044.9078	3
3249	3.975	1.155	0.745	0.597	2.158	11111	2.16	39051.9010	3
3249	3.959	1.180	0.751	0.607	2.155	11111	2.14	39052.8990	3
3249	3.975	1.181	0.750	0.608	2.174	11111	2.44	39053.8843	3
3249	3.967	1.170	0.747	0.606	2.160	11111	2.04	39054.8988	3
3249	3.939	1.158	0.748	0.640	2.187	11111	2.02	39055.8973	3
3249	3.947	1.171	0.741	0.640	2.182	11111	2.10	39057.8873	3
3249	3.932	1.156	0.739	0.630	2.187	11111	2.23	39059.8760	3
3249	3.905	1.169	0.759	0.610	2.183	11111	1.11	39060.0236	3
3249	3.914	1.150	0.712	0.622	2.188	11111	2.21	39060.8740	3
3249	3.985	1.152	0.734	0.628	2.175	11111	1.11	39061.0181	3
3249	3.952	1.161	0.709	0.605	2.189	11111	2.15	39061.8739	3
3249	3.983	1.204	0.770	0.595	2.135	11111	1.10	39062.0244	3
3249	3.931	1.159	0.753	0.621	2.185	11111	1.09	39135.8396	1
3249	3.962	1.194	0.757	0.592	2.161	11111	2.40	39138.6538	3
3249	3.953	1.161	0.758	0.619	2.162	11111	1.16	39138.8976	3
3249	3.967	1.175	0.753	0.616	2.163	11111	1.12	39140.8732	3
3249	3.935	1.144	0.739	0.608	2.178	11111	1.15	39147.8701	3
3249	3.958	1.165	0.762	0.620	2.170	11111	1.16	39148.8696	3
3249	3.948	1.133	0.746	0.622	2.186	11111	1.09	39171.7516	1
3249	3.944	1.148	0.744	0.630	2.193	11111	1.14	39178.7820	1
3249	3.946	1.146	0.726	0.647	2.223	11111	1.10	39197.7071	3
3249	3.949	1.163	0.747	0.607	2.159	11111	3.07	39197.8813	3
3249	3.964	1.178	0.750	0.612	2.171	11111	1.09	39199.6863	3
3249	3.949	1.161	0.738	0.610	2.183	11111	2.46	39199.8595	3
3249	3.963	1.144	0.751	0.628	2.194	11111	1.12	39206.6140	3
3249	3.944	1.151	0.739	0.611	2.176	11111	2.62	39206.8455	3
3249	3.936	1.160	0.746	0.617	2.180	11111	1.12	39207.6108	1
3249	4.051	1.110	0.726	0.608	2.171	11111	1.12	39229.6280	3
3249	3.904	1.125	0.715	0.636	2.194	11111	1.14	39238.6145	1
3249	3.948	1.149	0.736	0.634	2.210	11111	1.22	39240.6397	3
3249	3.897	1.129	0.727	0.624	2.209	11111	1.21	39246.6198	1
3249	3.926	1.112	0.726	0.627	2.183	11111	1.59	39249.6727	1
3249	3.938	1.139	0.725	0.679	2.183	11111	1.36	39254.6292	1
3249	3.956	1.174	0.754	0.621	2.188	11111	1.18	39431.9705	1
3249	3.920	1.135	0.741	0.645	2.200	11111	1.09	39440.9951	1
3249	3.940	1.150	0.741	0.606	2.148	11111	1.09	39471.9320	1
3249	3.941	1.174	0.741	0.618	2.175	11111	1.09	39473.9207	1
3249	3.936	1.171	0.741	0.614	2.165	11111	1.24	39479.9897	1
3249	3.951	1.176	0.740	0.609	2.170	11111	1.34	39482.7922	3
3249	3.951	1.160	0.747	0.639	2.195	11111	1.17	39482.8342	3
3249	3.969	1.162	0.707	0.637	2.169	11111	1.10	39487.9050	3
3249	3.949	1.185	0.752	0.603	2.149	11111	1.29	39488.7860	3
3249	3.930	1.150	0.736	0.616	2.183	11111	1.49	39501.7191	1
3249	3.955	1.178	0.743	0.620	2.185	11111	1.09	39501.8512	1
3249	3.960	1.177	0.772	0.607	2.172	11111	1.11	39504.8686	1
3249	3.952	1.174	0.752	0.617	2.178	11111	1.12	39506.8723	1
3249	3.938	1.149	0.746	0.632	2.203	11111	1.12	39507.8677	1
3249	3.947	1.161	0.750	0.620	2.161	11111	1.14	39508.8789	1
3249	3.954	1.133	0.743	0.614	2.177	11111	1.09	39509.8321	1
3275	4.702	1.225	0.812	0.636	2.284	11111	1.02	39084.9869	1
3275	4.685	1.220	0.791	0.629	2.300	11111	1.02	39172.7651	3
3275	4.687	1.204	0.787	0.634	2.311	11111	1.02	39202.6747	3
3314	3.886	-0.003	-0.007	-0.037	-0.019	11111	1.24	39135.8504	1
3314	3.906	0.010	0.015	-0.033	-0.024	11111	1.25	39173.7250	3
3314	3.915	-0.036	-0.011	-0.029	-0.003	11111	1.24	39202.6861	3
3314	3.919	-0.022	-0.011	-0.034	-0.010	11111	1.24	39207.6649	1
3323	3.647	0.620	0.380	0.394	1.101	11111	1.14	39135.8667	1
3323	3.551	0.637	0.390	0.384	1.080	11111	1.14	39173.7345	3
3323	3.561	0.651	0.387	0.373	1.058	11111	1.14	39207.6763	1
3403	4.974	0.904	0.581	0.502	1.642	11111	1.18	39135.8812	1
3403	4.899	0.916	0.582	0.493	1.633	11111	1.18	39173.7449	3
3403	4.916	0.901	0.554	0.462	1.603	11111	1.18	39207.6866	1
3410	4.216	0.028	0.010	0.001	0.000	11111	1.12	38786.8228	1
3410	4.147	0.050	-0.001	-0.016	-0.020	11111	1.12	38787.8208	1
3410	4.099	0.010	0.008	0.006	0.018	11111	1.12	38791.7925	1
3418	4.721	0.881	0.571	0.541	1.735	11111	1.16	39135.8938	1
3418	4.753	0.902	0.568	0.515	1.730	11111	1.14	39173.7547	3
3429	6.372	0.133	0.078	0.030	0.211	11111	1.02	39482.9159	3
3441	5.145	0.800	0.515	0.465	1.406	11111	1.51	39140.8300	3
3441	5.141	0.802	0.489	0.455	1.411	11111	1.50	39173.7644	3
3449	4.717	0.015	0.037	-0.020	0.002	11111	1.02	39140.8419	3
3449	4.704	0.025	0.004	-0.020	0.029	11111	1.04	39176.7183	3
3454	4.298	-0.080	-0.071	-0.085	-0.275	11111	1.15	38751.9374	3
3454	4.286	-0.092	-0.091	-0.073	-0.263	11111	1.18	38752.9556	3
3454	4.315	-0.114	-0.067	-0.050	-0.228	11111	1.14	38789.8182	1
3454	4.265	-0.118	-0.033	-0.060	-0.268	11111	1.16	38791.7827	1
3454	4.265	-0.139	-0.086	-0.082	-0.255	11111	1.17	38874.6189	3
3454	4.267	-0.130	-0.083	-0.085	-0.258	11111	1.28	38875.6549	1
3454	4.250	-0.127	-0.081	-0.080	-0.256	11111	1.33	38877.6595	3
3454	4.277	-0.111	-0.086	-0.078	-0.248	11111	1.34	38878.6584	1
3454	4.296	-0.107	-0.079	-0.082	-0.261	11111	2.58	38888.7234	3
3454	4.257	-0.127	-0.085	-0.071	-0.233	11111	2.68	38889.7236	3
3454	4.282	-0.120	-0.073	-0.087	-0.248	11111	3.02	38890.7297	3
3454	4.312	-0.090	-0.034	-0.087	-0.240	11111	2.22	39025.9984	3
3454	4.271	-0.117	-0.081	-0.071	-0.231	11111	2.45	39044.9374	3
3454	4.293	-0.100	-0.065	-0.059	-0.201	11111	2.45	39051.9182	3
3454	4.262	-0.134	-0.090	-0.068	-0.231	11111	2.28	39052.9220	3
3454	4.265	-0.115	-0.076	-0.082	-0.237	11111	2.27	39053.9198	3
3454	4.264	-0.113	-0.085	-0.065	-0.223	11111	2.14	39054.9230	3
3454	4.259	-0.132	-0.089	-0.070	-0.230	11111	2.34	39055.9114	3
3454	4.261	-0.126	-0.065	-0.080	-0.247	11111	2.16	39057.9139	3
3454	4.298	-0.115	-0.076	-0.081	-0.242	11111	2.22	39059.9054	3
3454	4.232	-0.096	-0.049	-0.081	-0.248	11111	1.18	39060.0328	3
3454	4.261	-0.142	-0.096	-0.067	-0.235	11111	2.10	39060.9082	3
3454	4.287	-0.130	-0.083	-0.069	-0.238	11111	1.18	39061.0280	3
3454	4.274	-0.119	-0.060	-0.063	-0.236	11111	2.23	39061.8995	3
3454	4.282	-0.112	-0.067	-0.077	-0.272	11111	1.17	39062.0332	3
3454	4.255	-0.104	-0.051	-0.077	-0.234	11111	1.37	39135.9596	1
3454	4.274	-0.113	-0.073	-0.080	-0.227	11111	2.24	39138.6888	3
3454	4.294	-0.106	-0.053	-0.092	-0.245	11111	1.20	39138.9064	3
3454	4.281	-0.116	-0.058	-0.069	-0.226	11111	1.16	39140.8816	3
3454	4.275	-0.083	-0.044	-0.092	-0.261	11111	1.19	39147.8787	3
3454	4.276	-0.108	-0.057	-0.058	-0.226	11111	1.20	39148.8808	3
3454	4.266	-0.125	-0.093	-0.066	-0.237	11111	1.14	39171.7633	1
3454	4.284	-0.112	-0.071	-0.086	-0.256	11111	1.18	39178.7915	1
3454	4.263	-0.107	-0.075	-0.090	-0.244	11111	1.15	39197.7169	3
3454	4.285	-0.125	-0.079	-0.074	-0.237	11111	3.11	39197.8906	3
3454	4.272	-0.127	-0.079	-0.071	-0.238	11111	1.14	39199.6954	3
3454	4.280	-0.122	-0.086	-0.073	-0.244	11111	2.50	39199.8689	3
3454	4.249	-0.094	-0.081	-0.083	-0.242	11111	1.15	39206.6951	3
3454	4.300	-0.098	-0.065	-0.095	-0.245	11111	1.19	39207.7134	1
3454	4.260	-0.136	-0.090	-0.080	-0.246	11111	1.18	39238.6268	1
3454	4.301	-0.108	-0.067	-0.077	-0.249	11111	1.26	39240.6489	3
3454	4.262	-0.107	-0.065	-0.074	-0.238	11111	4.63	39243.7861	3
3454	4.258	-0.135	-0.082	-0.082	-0.257	11111	1.26	39246.6321	1
3454	4.281	-0.102	-0.058	-0.081	-0.254	11111	1.23	39431.9919	1
3454	0.000	0.000	-0.061	-0.073	-0.237	00111	1.17	39434.0104	0
3454	4.286	-0.104	-0.065	-0.086	-0.257	11111	1.15	39441.0123	1
3454	4.297	-0.092	-0.057	-0.086	-0.248	11111	1.14	39444.0222	1
3454	4.268	-0.110	-0.071	-0.076	-0.240	11111	1.19	39469.9993	1
3454	4.287	-0.112	-0.067	-0.075	-0.238	11111	1.26	39471.0178	1
3454	4.271	-0.111	-0.084	-0.070	-0.249	11111	1.15	39471.9591	1
3454	4.295	-0.086	-0.047	-0.092	-0.263	11111	1.17	39473.9076	1
3454	4.258	-0.120	-0.068	-0.091	-0.265	11111	1.17	39479.8864	1
3454	4.273	-0.124	-0.068	-0.075	-0.241	11111	1.21	39479.9786	1
3454	4.294	-0.101	-0.065	-0.086	-0.247	11111	1.15	39482.9294	3
3454	4.302	-0.089	-0.049	-0.057	-0.236	11111	1.15	39487.9152	3
3454	4.265	-0.078	-0.048	-0.105	-0.263	11111	1.39	39488.8005	3
3454	4.272	-0.108	-0.085	-0.071	-0.232	11111	1.53	39501.7453	1
3454	4.289	-0.103	-0.071	-0.081	-0.254	11111	1.14	39501.8623	1
3454	4.283	-0.101	-0.070	-0.083	-0.254	11111	1.17	39506.8834	1
3454	4.247	-0.102	-0.065	-0.077	-0.254	11111	1.19	39508.8909	1
3459	4.836	0.626	0.405	0.391	1.036	11111	1.30	39140.8529	3
3459	4.845	0.640	0.392	0.384	1.048	11111	1.31	39176.7278	3
3461	4.239	0.837	0.528	0.455	1.448	11111	1.03	39140.8633	3
3461	4.233	0.813	0.513	0.458	1.470	11111	1.04	39176.7373	3
3475	4.306	0.765	0.437	0.427	1.281	11111	1.01	39147.8146	3
3475	4.270	0.727	0.444	0.457	1.317	11111	1.00	39176.7460	3
3482	3.554	0.589	0.346	0.289	0.823	11111	1.11	39147.8250	3
3482	3.591	0.585	0.345	0.268	0.802	11111	1.11	39176.7547	3
3484	4.523	0.675	0.416	0.435	1.169	11111	1.57	39148.7713	3
3484	4.538	0.690	0.404	0.391	1.146	11111	1.46	39176.7843	3
3492	4.357	0.005	0.003	-0.020	-0.021	11111	1.12	38752.9220	3
3492	4.433	0.001	0.010	-0.026	-0.052	11111	1.12	38786.8339	1
3492	4.290	0.637	-0.011	-0.016	-0.034	10111	1.12	38791.8113	1
3547	3.392	0.739	0.466	0.452	1.320	11111	1.19	39148.7811	3
3547	3.360	0.736	0.440	0.447	1.322	11111	1.13	39178.7324	1

TABLE 8 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 52

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
3569	3.241	0.180	0.112	0.071	0.260	11111	1.07	39148.7914	3
3569	3.213	0.166	0.093	0.047	0.237	11111	1.04	39178.7420	1
3572	4.323	0.114	0.087	0.061	0.218	11111	1.10	39148.8009	3
3572	4.318	0.088	0.071	0.031	0.169	11111	1.07	39178.7508	1
3576	5.175	1.231	0.693	0.708	2.293	11111	1.23	39148.8187	3
3576	5.126	1.235	0.683	0.697	2.266	11111	1.23	39178.7601	1
3579	4.126	0.416	0.254	0.187	0.491	11111	1.02	39148.8290	3
3579	4.098	0.391	0.231	0.183	0.499	11111	1.02	39178.7696	1
3594	3.597	0.024	0.018	-0.022	-0.049	11111	1.04	38839.6699	3
3594	3.643	0.039	0.042	-0.031	-0.035	11111	1.04	39171.7749	1
3594	3.578	0.040	0.003	-0.010	-0.031	11111	1.04	39206.7066	3
3612	4.818	0.752	0.455	0.484	1.369	11111	1.01	38752.9448	3
3612	4.813	0.726	0.453	0.506	1.407	11111	1.01	39171.7867	1
3612	4.771	0.756	0.460	0.469	1.372	11111	1.02	39206.7166	3
3616	4.952	0.421	0.248	0.199	0.573	11111	1.22	39139.8613	3
3616	4.972	0.450	0.293	0.206	0.537	11111	1.22	39171.7995	1
3616	4.931	0.470	0.268	0.200	0.547	11111	1.23	39206.7275	3
3619	4.534	0.204	0.139	0.111	0.369	11111	1.06	38839.6794	3
3619	4.524	0.215	0.145	0.113	0.361	11111	1.06	39172.7875	3
3619	5.147	0.164	0.123	0.089	0.356	01111	1.06	39229.6399	3
3624	4.774	0.276	0.182	0.145	0.449	11111	1.17	39139.8714	3
3624	4.720	0.272	0.180	0.152	0.446	11111	1.17	39172.7986	3
3624	4.804	0.247	0.174	0.134	0.450	11111	1.18	39229.6545	3
3662	4.876	0.171	0.097	0.056	0.220	11111	1.08	38839.6915	3
3662	4.844	0.148	0.090	0.075	0.245	11111	1.08	39173.7855	3
3662	4.893	0.150	0.087	0.048	0.222	11111	1.09	39229.6687	3
3665	3.929	-0.024	-0.019	-0.055	-0.075	11111	1.15	39139.8827	3
3665	3.892	-0.022	-0.017	-0.060	-0.072	11111	1.16	39173.7946	3
3690	3.870	0.069	0.023	0.006	0.105	11111	1.01	39139.8922	3
3690	3.845	0.081	0.036	-0.006	0.077	11111	1.01	39173.8040	3
3705	3.587	1.225	0.788	0.641	2.308	11111	1.01	39139.9013	3
3705	3.562	1.229	0.803	0.622	2.305	11111	1.00	39174.7864	3
3706	4.982	0.659	0.408	0.426	1.217	11111	1.43	39139.9150	3
3706	4.978	0.666	0.410	0.413	1.212	11111	1.40	39174.7960	3
3709	5.056	0.657	0.407	0.412	1.193	01111	1.50	39150.7810	3
3709	5.010	0.684	0.415	0.393	1.195	11111	1.35	39174.8054	3
3731	4.854	0.925	0.611	0.488	1.718	01111	1.06	39150.7939	3
3731	4.758	0.949	0.601	0.464	1.703	11111	1.02	39174.8143	3
3748	2.433	1.071	0.712	0.603	2.113	01111	1.40	39150.8061	3
3748	2.382	1.097	0.709	0.594	2.119	11111	1.34	39175.7640	3
3751	4.634	1.087	0.719	0.648	2.181	01111	1.53	39150.8192	3
3751	4.666	1.121	0.729	0.616	2.187	11111	1.53	39175.7849	3
3751	4.646	1.091	0.702	0.648	2.201	11111	1.53	39202.7321	3
3757	3.824	0.292	0.170	0.132	0.377	01111	1.17	39150.8294	3
3757	3.757	0.310	0.175	0.138	0.395	11111	1.16	39175.7964	3
3757	3.735	0.264	0.156	0.142	0.380	11111	1.17	39202.7428	3
3759	4.689	0.376	0.209	0.230	0.513	11111	1.39	39151.7747	3
3759	4.731	0.381	0.231	0.211	0.529	11111	1.23	39175.8061	3
3771	4.733	0.606	0.345	0.390	0.970	11111	1.31	39151.7846	3
3771	4.709	0.616	0.364	0.355	0.956	11111	1.26	39176.7962	3
3771	4.754	0.612	0.370	0.335	0.942	11111	1.31	39246.6686	1
3773	4.741	1.216	0.749	0.642	2.315	11111	1.07	39151.7942	3
3773	4.752	1.241	0.790	0.616	2.313	11111	1.02	39176.8065	3
3775	3.344	0.418	0.216	0.246	0.573	11111	1.06	39151.8623	3
3775	3.260	0.408	0.231	0.213	0.526	11111	1.06	39197.7280	3
3787	4.617	0.104	0.051	0.046	0.119	11111	1.20	38751.9485	3
3787	4.532	0.070	0.001	0.088	0.141	11111	1.21	38789.8280	1
3787	4.531	0.129	0.057	0.019	0.120	11111	1.21	38791.8218	1
3799	4.503	-0.031	-0.003	-0.014	0.083	11111	1.06	38791.8331	1
3800	4.746	0.678	0.400	0.408	1.165	11111	1.00	38751.9604	3
3800	4.780	0.694	0.413	0.403	1.166	11111	1.01	38752.9672	3
3800	4.786	0.718	0.460	0.408	1.158	11111	1.00	38837.7100	1
3800	4.729	0.669	0.394	0.412	1.192	11111	1.00	39197.7371	3
3809	5.058	0.764	0.487	0.459	1.302	11111	1.01	38837.7194	1
3809	5.010	0.744	0.445	0.433	1.300	11111	1.01	39197.7471	3
3815	5.624	0.665	0.421	0.334	0.969	11111	1.00	38837.7285	1
3815	5.571	0.616	0.394	0.303	0.965	11111	1.01	39197.7559	3
3834	5.050	1.061	0.659	0.564	1.908	11111	1.13	39151.8720	3
3834	5.009	1.049	0.665	0.535	1.894	11111	1.15	39197.7658	3
3845	4.262	1.030	0.628	0.564	1.881	11111	1.18	39151.8816	3
3845	4.209	1.013	0.646	0.563	1.879	11111	1.21	39197.7752	3
3849	5.039	-0.079	-0.055	-0.063	-0.186	11111	1.48	39151.8904	3
3849	5.049	-0.086	-0.053	-0.065	-0.177	11111	1.54	39197.7843	3
3852	3.673	0.413	0.241	0.223	0.623	11111	1.11	39151.8995	3
3852	3.656	0.397	0.242	0.212	0.604	11111	1.09	39199.7049	3
3873	3.187	0.596	0.369	0.358	1.018	11111	1.09	39154.7898	3
3873	3.185	0.633	0.384	0.350	0.999	11111	1.01	39176.8033	1
3881	5.237	0.476	0.278	0.268	0.741	11111	1.07	39154.8002	3
3881	5.247	0.494	0.312	0.254	0.709	11111	1.04	39199.7143	3
3888	3.871	0.259	0.134	0.124	0.328	11111	1.15	39154.8094	3
3888	3.825	0.280	0.172	0.112	0.288	11111	1.12	39199.7243	3
3894	4.595	0.015	-0.007	0.014	0.047	11111	1.10	39154.8192	3
3894	4.588	0.044	0.029	-0.001	0.029	11111	1.08	39199.7341	3
3903	4.327	0.678	0.434	0.412	1.207	11111	1.47	39154.8551	3
3903	4.343	0.683	0.410	0.429	1.231	11111	1.47	39199.7494	3
3905	4.228	0.958	0.620	0.480	1.743	11111	1.01	39154.8647	3
3905	4.221	0.940	0.621	0.448	1.764	11111	1.01	39199.7591	3
3950	5.119	1.245	0.760	0.704	2.395	11111	1.10	39154.8739	3
3950	5.104	1.258	0.763	0.722	2.407	11111	1.11	39199.7684	3
3970	4.515	-0.079	-0.063	-0.014	-0.124	11111	1.42	38869.6480	1
3970	4.555	-0.063	-0.040	-0.025	-0.116	11111	1.42	39138.9175	3
3970	4.569	-0.051	-0.029	-0.060	-0.144	11111	1.42	39206.7380	3
3974	4.533	0.135	0.076	0.086	0.265	11111	1.00	38752.9785	3
3974	4.575	0.073	0.045	0.070	0.263	11111	1.00	38791.8553	1
3974	4.497	0.146	0.091	0.043	0.214	11111	1.01	39206.7474	3
3975	3.546	0.074	0.070	-0.004	-0.102	11111	1.04	38786.8682	1
3975	3.585	0.070	0.039	0.005	-0.112	11111	1.07	38791.9091	1
3975	3.510	0.020	0.011	-0.012	-0.077	11111	1.04	39227.6824	3
3980	4.771	1.147	0.748	0.582	2.122	11111	1.08	38839.7296	3
3980	4.761	1.161	0.755	0.607	2.139	11111	1.08	38869.6644	1
3980	4.742	1.141	0.751	0.569	2.118	11111	1.10	39227.7013	3
3981	4.499	0.238	0.014	-0.017	-0.057	10111	1.19	38752.9909	3
3981	4.451	-0.072	-0.044	0.008	-0.026	11111	1.21	38789.8402	1
3981	4.475	-0.042	-0.037	-0.015	-0.049	11111	1.18	39238.6432	1
3982	1.365	-0.048	-0.030	-0.054	-0.185	11111	1.07	38839.7402	3
3982	1.377	-0.062	-0.025	-0.049	-0.133	11111	1.07	39138.9279	3
3982	1.393	-0.099	-0.075	-0.063	-0.163	11111	1.07	39238.6524	1
3994	3.776	0.758	0.472	0.459	1.399	11111	1.43	38869.6816	1
3994	3.867	0.767	0.484	0.423	1.345	11111	1.41	39138.9367	3
3994	3.885	0.754	0.473	0.447	1.384	11111	1.42	39240.6603	3
4031	3.528	0.270	0.160	0.133	0.337	11111	1.01	38839.7494	3
4031	3.543	0.287	0.185	0.138	0.361	11111	1.02	39138.9459	3
4031	3.526	0.283	0.165	0.143	0.363	11111	1.02	39240.6713	3
4033	3.412	0.024	0.009	-0.001	0.048	11111	1.02	38871.6529	1
4033	3.466	0.001	-0.018	-0.024	0.035	11111	1.03	39139.9512	3
4039	5.900	0.392	0.209	0.196	0.578	11111	1.16	39254.6980	1
4039	5.896	0.401	0.229	0.240	0.563	11111	1.06	39258.6508	3
4054	4.915	0.389	0.238	0.194	0.500	11111	1.04	38839.7712	3
4054	4.882	0.333	0.196	0.197	0.524	11111	1.05	39139.9608	3
4057	2.305	0.863	0.538	0.502	1.506	11111	1.03	38839.7586	3
4057	2.287	0.821	0.501	0.496	1.511	11111	1.06	39139.9694	3
4057	2.306	0.838	0.518	0.494	1.522	11111	1.03	39202.7591	3
4069	3.469	1.274	0.791	0.681	2.343	11111	1.01	38866.6636	1
4069	3.510	1.244	0.793	0.653	2.277	11111	1.01	39140.9207	3
4069	3.476	1.229	0.756	0.656	2.328	11111	1.02	39202.7688	3
4072	4.992	0.035	0.012	-0.031	-0.086	11111	1.20	38866.6862	1
4072	4.986	-0.027	-0.010	-0.040	-0.067	11111	1.20	39140.9307	3
4072	4.927	-0.062	-0.026	-0.034	-0.044	11111	1.20	39202.7791	3
4090	4.757	0.225	0.146	0.103	0.310	11111	1.00	38871.6659	1
4090	4.839	0.225	0.163	0.091	0.291	11111	1.00	39140.9405	3
4092	5.983	1.212	0.746	0.613	2.251	11111	1.29	38874.6547	3
4092	5.999	1.228	0.778	0.616	2.228	11111	1.30	39147.8904	3
4094	4.195	1.206	0.772	0.601	2.207	11111	1.54	38871.6835	1
4094	4.207	1.160	0.767	0.603	2.199	11111	1.52	39147.8999	3
4100	4.368	0.702	0.428	0.406	1.194	11111	1.02	38871.6975	1
4100	4.427	0.702	0.443	0.407	1.179	11111	1.00	39147.9099	3
4112	4.930	0.470	0.271	0.252	0.596	11111	1.14	38871.7270	1
4112	4.956	0.430	0.265	0.254	0.609	11111	1.09	39148.9050	3
4119	5.075	-0.043	-0.067	-0.006	-0.165	11111	1.21	38789.8507	1
4119	5.067	-0.059	-0.032	-0.073	-0.173	11111	1.21	38791.9196	1
4132	4.755	0.176	0.100	0.070	0.252	11111	1.01	38865.6781	1
4132	4.769	0.165	0.095	0.098	0.270	11111	1.01	39148.9167	3
4133	3.811	-0.048	-0.042	-0.033	-0.228	11111	1.09	38865.6868	1
4133	3.807	-0.047	-0.049	-0.039	-0.216	11111	1.09	39148.9278	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
4163	5.767	1.929	1.277	1.550	5.417	11111	1.43	38874.6720	3
4163	5.639	1.904	1.255	1.468	5.318	11111	1.45	39173.8642	3
4163	5.623	1.870	1.229	1.477	5.311	11111	1.73	39175.9237	3
4166	4.856	0.599	0.353	0.378	1.034	11111	1.01	38877.6753	3
4166	4.866	0.611	0.374	0.364	1.045	11111	1.01	39173.8737	3
4232	3.436	0.950	0.590	0.518	1.735	11111	1.53	38877.6890	3
4232	3.422	0.931	0.576	0.518	1.718	11111	1.58	39173.8929	3
4247	4.043	0.790	0.483	0.449	1.398	11111	1.02	38877.7025	3
4247	4.083	0.812	0.494	0.445	1.405	11111	1.00	39175.8483	3
4247	4.044	0.775	0.477	0.462	1.409	11111	1.07	39270.6548	3
4248	4.672	-0.064	-0.018	-0.031	-0.052	11111	1.04	38887.6731	3
4248	4.708	-0.017	-0.018	-0.037	-0.075	11111	1.02	39175.8574	3
4259	4.331	0.047	0.012	-0.006	0.010	11111	1.02	38787.8837	1
4259	4.355	-0.017	0.006	-0.017	-0.007	11111	1.02	38791.9304	1
4287	4.350	0.804	0.506	0.465	1.464	11111	1.66	38887.6858	3
4287	4.355	0.824	0.524	0.452	1.476	11111	1.58	39175.8662	3
4295	2.363	-0.018	-0.013	-0.026	-0.025	11111	1.13	38887.6985	3
4295	2.344	-0.036	-0.032	-0.028	-0.004	11111	1.12	39175.9005	3
4299	5.192	1.247	0.783	0.682	2.398	11111	1.44	38887.7303	3
4299	5.158	1.259	0.773	0.664	2.411	11111	1.31	39175.9109	3
4299	5.134	1.250	0.775	0.692	2.403	11111	1.37	39270.6677	3
4300	4.450	0.012	-0.008	-0.002	0.063	11111	1.02	38872.6800	3
4300	4.770	-0.004	0.008	-0.002	0.071	01111	1.03	39135.9868	1
4300	4.427	-0.005	0.004	0.000	0.099	11111	1.02	39202.7884	3
4301	2.069	0.788	0.485	0.481	1.432	11111	1.15	38872.6941	3
4301	2.080	0.792	0.495	0.512	1.443	11111	1.15	39138.9672	3
4301	2.036	0.812	0.511	0.454	1.417	11111	1.15	39206.7760	3
4310	4.601	0.280	0.182	0.159	0.384	11111	1.11	38786.9049	1
4310	4.683	0.299	0.166	0.168	0.409	11111	1.11	38787.9000	1
4310	4.710	0.304	0.178	0.149	0.404	11111	1.13	38791.9412	1
4310	4.701	0.297	0.185	0.118	0.361	11111	1.11	39206.7854	3
4335	3.321	0.849	0.527	0.497	1.580	11111	1.03	38872.7089	3
4335	3.315	0.846	0.541	0.506	1.598	11111	1.03	39138.9782	3
4335	3.283	0.887	0.555	0.463	1.559	11111	1.03	39206.7958	3
4357	2.615	0.079	0.045	0.036	0.157	11111	1.06	38872.7370	3
4357	2.606	0.093	0.062	0.031	0.167	11111	1.03	39138.9875	3
4357	2.593	0.090	0.068	0.017	0.141	11111	1.02	39227.7265	3
4359	3.373	-0.001	0.003	-0.034	-0.024	11111	1.11	38872.7492	3
4359	3.340	0.037	0.012	-0.033	-0.023	11111	1.04	39147.9323	3
4359	3.325	-0.008	0.001	-0.027	-0.011	11111	1.05	39227.7368	3
4362	4.994	1.245	0.673	0.811	2.437	11111	1.11	38872.7675	3
4362	4.989	1.259	0.679	0.804	2.356	11111	1.01	39147.9459	3
4362	5.029	1.258	0.693	0.783	2.357	11111	1.02	39227.7468	3
4368	4.524	0.135	0.095	0.093	0.252	11111	1.32	38789.8635	1
4368	4.481	0.180	0.127	0.084	0.230	11111	1.23	39148.9386	3
4368	4.524	0.173	0.109	0.095	0.234	11111	1.23	39240.6839	3
4371	5.569	1.201	0.747	0.607	2.212	11111	1.16	38874.6855	3
4371	5.662	1.189	0.754	0.600	2.212	01111	1.16	39150.9129	3
4374	3.894	0.470	0.272	0.267	0.496	11111	1.00	38875.6700	1
4374	4.015	0.487	0.274	0.260	0.656	01111	1.00	39150.9226	3
4377	3.033	1.049	0.673	0.610	2.009	11111	1.00	38875.6821	1
4377	3.949	1.071	0.672	0.591	1.986	01111	1.00	39150.9318	3
4380	4.777	0.048	0.029	0.020	0.126	11111	1.01	38875.6953	1
4380	4.849	0.096	0.039	0.027	0.134	11111	1.01	39151.9121	3
4382	3.855	0.833	0.507	0.498	1.502	11111	1.47	38888.6633	3
4382	3.875	0.870	0.520	0.491	1.461	11111	1.47	39151.9240	3
4386	4.002	-0.008	-0.010	-0.027	-0.098	11111	1.12	38786.9159	1
4386	4.158	0.002	0.001	-0.057	-0.073	11111	1.11	39151.9338	3
4392	5.187	0.742	0.454	0.441	1.297	11111	1.02	38865.7012	1
4392	5.210	0.698	0.429	0.456	1.339	11111	1.02	39154.9231	3
4392	5.183	0.685	0.431	0.446	1.326	11111	1.03	39258.6711	3
4399	4.031	0.311	0.198	0.196	0.460	11111	1.08	38789.9421	1
4399	4.037	0.330	0.205	0.196	0.486	11111	1.08	39172.8899	3
4405	4.158	0.170	0.103	0.060	0.242	11111	1.57	38888.6762	3
4405	4.116	0.154	0.099	0.067	0.238	11111	1.57	39172.9005	3
4434	4.269	1.272	0.802	0.674	2.406	11111	1.26	38888.6921	3
4434	4.255	1.270	0.789	0.681	2.418	11111	1.26	39172.9118	3
4434	4.271	1.294	0.794	0.685	2.426	11111	1.25	39178.8714	1
4456	5.865	-0.134	-0.102	-0.076	-0.198	11111	1.99	38751.8559	3
4456	5.925	-0.095	-0.066	-0.070	-0.227	11111	1.99	38752.8532	3
4456	5.934	-0.098	-0.058	-0.074	-0.214	11111	1.05	38753.0011	3
4456	5.872	-0.098	-0.030	-0.075	-0.210	11111	1.74	38789.7682	1
4456	5.884	-0.121	-0.073	-0.061	-0.212	11111	1.07	38789.9767	1
4456	5.981	-0.042	-0.030	-0.087	-0.232	11111	1.05	38791.8983	1
4456	5.946	-0.097	-0.063	-0.065	-0.214	11111	1.17	38872.7887	3
4456	5.903	-0.095	-0.062	-0.060	-0.198	11111	1.04	38875.7085	1
4456	5.918	-0.088	-0.059	-0.079	-0.219	11111	1.05	38878.7150	1
4456	5.908	-0.122	-0.083	-0.072	-0.214	11111	1.04	38887.6608	3
4456	5.906	-0.108	-0.079	-0.076	-0.204	11111	1.05	38888.6394	3
4456	5.879	-0.114	-0.082	-0.069	-0.217	11111	1.05	38889.6286	3
4456	5.896	-0.120	-0.083	-0.064	-0.209	11111	1.05	38890.6261	3
4456	5.902	-0.116	-0.071	-0.067	-0.192	11111	1.04	38894.6331	3
4456	5.922	-0.108	-0.073	-0.087	-0.223	11111	1.04	38896.6407	3
4456	5.885	-0.116	-0.081	-0.084	-0.221	11111	1.04	38898.6312	3
4456	5.907	0.255	-0.064	-0.093	-0.222	10111	1.08	38916.6364	3
4456	5.907	-0.109	-0.070	-0.070	-0.208	11111	1.36	38933.6610	3
4456	5.899	-0.119	-0.073	-0.067	-0.207	11111	3.08	38933.7552	3
4456	6.262	-0.112	-0.086	-0.067	-0.211	01111	1.04	39135.9757	1
4456	5.914	-0.070	-0.044	-0.076	-0.207	11111	1.05	39138.9975	3
4456	5.897	-0.099	-0.081	-0.070	-0.197	11111	1.08	39139.9254	3
4456	5.946	-0.100	-0.086	-0.085	-0.207	01111	1.93	39150.7675	3
4456	6.003	-0.088	-0.068	-0.080	-0.214	01111	1.04	39150.9409	3
4456	5.904	-0.084	-0.063	-0.071	-0.203	11111	1.05	39172.8519	3
4456	5.914	-0.053	-0.059	-0.086	-0.223	11111	1.05	39184.8282	1
4456	5.896	-0.096	-0.088	-0.074	-0.225	11111	1.04	39201.8154	1
4456	5.923	-0.089	-0.059	-0.073	-0.200	11111	1.04	39202.8006	3
4456	5.884	-0.092	-0.059	-0.089	-0.219	11111	1.13	39227.6604	3
4456	5.900	-0.083	-0.068	-0.081	-0.215	11111	2.28	39227.9262	3
4456	5.897	-0.104	-0.057	-0.074	-0.214	11111	1.04	39240.7028	3
4456	5.898	-0.095	-0.067	-0.082	-0.231	11111	2.76	39240.9066	3
4456	5.900	-0.103	-0.070	-0.079	-0.212	11111	1.04	39243.6758	3
4456	5.923	-0.106	-0.106	-0.069	-0.195	11111	1.07	39246.7260	1
4456	5.877	-0.121	-0.074	-0.064	-0.205	11111	1.04	39247.6956	1
4456	5.904	-0.098	-0.094	-0.072	-0.215	11111	1.04	39249.6848	1
4456	5.892	-0.125	-0.075	-0.074	-0.215	11111	1.04	39251.6843	1
4456	5.921	-0.091	-0.055	-0.134	-0.215	11111	1.15	39254.7381	1
4456	5.909	-0.107	-0.064	-0.085	-0.222	11111	1.04	39257.6362	3
4456	5.917	-0.109	-0.064	-0.090	-0.213	11111	2.91	39257.8639	3
4456	5.885	-0.126	-0.080	-0.087	-0.213	11111	1.04	39258.6324	3
4456	5.895	-0.114	-0.082	-0.067	-0.206	11111	3.36	39258.8704	3
4456	5.899	-0.121	-0.075	-0.083	-0.235	11111	1.04	39268.6267	3
4456	5.896	-0.127	-0.070	-0.071	-0.214	11111	2.35	39268.8170	3
4456	5.891	-0.128	-0.071	-0.070	-0.204	11111	1.04	39269.6243	3
4456	5.916	-0.100	-0.064	-0.075	-0.217	11111	2.25	39269.8103	3
4456	5.907	-0.129	-0.071	-0.073	-0.216	11111	1.04	39270.6281	3
4456	5.921	-0.104	-0.060	-0.090	-0.220	11111	1.07	39272.6506	3
4456	5.893	-0.122	-0.078	-0.071	-0.215	11111	1.05	39274.6280	3
4456	5.889	-0.142	-0.087	-0.065	-0.205	11111	1.06	39278.6299	1
4456	5.881	-0.135	-0.094	-0.084	-0.220	11111	1.08	39280.6372	3
4456	5.894	-0.130	-0.086	-0.066	-0.183	11111	2.39	39280.7855	3
4456	5.884	-0.127	-0.076	-0.081	-0.233	11111	1.07	39281.6317	3
4456	5.932	-0.089	-0.068	-0.076	-0.218	11111	2.08	39482.8506	3
4456	5.954	-0.075	-0.050	-0.078	-0.213	11111	1.05	39508.9932	1
4468	4.647	-0.060	-0.035	-0.053	-0.106	11111	1.35	38889.6517	3
4468	4.639	-0.073	-0.051	-0.049	-0.095	11111	1.36	39174.8571	3
4468	4.678	-0.046	-0.038	-0.021	-0.102	11111	1.35	39184.8600	1
4471	4.605	0.807	0.491	0.458	1.269	11111	1.18	38866.7148	1
4471	4.502	0.732	0.430	0.414	1.285	11111	1.18	39174.8658	3
4471	4.546	0.737	0.447	0.427	1.306	11111	1.18	39184.8695	1
4496	5.736	0.700	0.408	0.335	0.820	11111	1.63	38708.9808	3
4496	5.488	0.577	0.370	0.310	0.890	11111	1.06	38786.8807	1
4496	5.485	0.617	0.359	0.298	0.853	11111	1.00	38787.9240	1
4496	5.444	0.614	0.366	0.292	0.882	11111	1.11	38791.8436	1
4496	5.460	0.609	0.377	0.295	0.886	11111	1.00	38865.7116	1
4496	5.541	0.657	0.458	0.298	0.805	11111	1.00	38866.7331	1
4514	4.926	0.702	0.433	0.437	1.284	11111	1.57	38889.6633	3
4514	4.899	0.693	0.397	0.425	1.283	11111	1.57	39174.8939	3
4517	4.438	1.139	0.693	0.712	2.275	11111	1.12	38866.7525	1
4517	4.378	1.163	0.702	0.625	2.208	11111	1.12	39174.9025	3
4518	3.960	0.882	0.542	0.515	1.624	11111	1.04	38889.6797	3
4518	4.023	0.908	0.561	0.513	1.605	11111	1.04	39154.9559	3
4527	4.634	0.465	0.268	0.236	0.623	11111	1.03	38889.6919	3
4527	4.605	0.447	0.241	0.225	0.631	11111	1.03	39174.9113	3
4527	4.672	0.495	0.279	0.228	0.630	11111	1.02	39178.8824	1
4534	2.133	0.045	0.025	0.052	0.162	11111	1.11	38786.8940	1
4534	2.132	0.072	0.028	0.037	0.138	11111	1.17	38787.8682	1
4534	2.082	0.068	0.015	0.026	0.158	11111	1.09	38791.8868	1
4534	2.226	0.088	0.063	0.050	0.194	11111	1.06	38868.7041	1
4534	2.095	0.055	0.017	0.037	0.154	11111	1.28	38869.6174	1
4534	2.161	0.087	0.047	0.002	0.111	11111	1.07	38869.7601	1
4534	2.135	0.086	0.029	0.029	0.134	11111	1.12	38870.7822	1
4534	2.059	0.038	0.021	0.049	0.162	11111	1.43	38870.8495	1
4534	2.098	0.059	0.035	0.031	0.135	11111	1.17	38871.6379	1
4534	2.104	0.064	0.030	0.024	0.152	11111	1.05	38871.7125	1
4534	2.161	0.044	0.041	0.028	0.136	11111	1.30	39479.9434	1
4540	3.673	0.481	0.312	0.242	0.640	11111	1.17	38786.9283	1
4540	3.729	0.487	0.297	0.246	0.646	11111	1.19	38787.9122	1
4540	3.646	0.428	0.252	0.260	0.665	11111	1.17	38789.9464	1
4540	3.731	0.451	0.271	0.236	0.649	11111	1.39	39479.9592	1
4550	6.639	0.636	0.391	0.323	0.880	11111	2.15	38751.8310	3
4550	6.633	0.658	0.396	0.298	0.875	11111	1.93	38752.8409	3
4550	6.667	0.621	0.390	0.340	0.869	11111	1.73	38789.7553	1
4550	6.637	0.683	0.401	0.314	0.880	11111	1.01	38789.9296	1
4550	6.623	0.645	0.390	0.330	0.868	11111	1.03	38874.7523	3
4550	6.620	0.649	0.386	0.328	0.880	11111	1.04	38875.7624	1
4550	6.616	0.634	0.380	0.323	0.861	11111	1.01	38887.6497	3
4550	6.626	0.636	0.377	0.320	0.875	11111	1.01	38888.6504	3
4550	6.591	0.616	0.364	0.319	0.871	11111	1.02	38889.6399	3
4550	6.603	0.639	0.370	0.324	0.893	11111	1.01	38890.6456	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
4550	6.612	0.643	0.369	0.328	0.880	11111	1.01	38894.6451	3
4550	6.624	0.640	0.379	0.329	0.885	11111	1.00	38896.6535	3
4550	6.609	0.638	0.369	0.324	0.873	11111	1.01	38898.6429	3
4550	6.624	0.653	0.379	0.325	0.873	11111	1.04	38916.6500	3
4550	6.613	0.635	0.378	0.331	0.878	11111	1.24	38933.6748	3
4550	6.626	0.655	0.374	0.311	0.865	11111	2.12	38933.7667	3
4550	6.527	0.636	0.389	0.330	0.871	01111	2.32	39150.7304	3
4550	6.718	0.666	0.391	0.317	0.855	01111	1.01	39150.9516	3
4550	6.611	0.641	0.376	0.328	0.879	11111	1.02	39172.8625	3
4550	6.640	0.651	0.385	0.321	0.880	11111	1.09	39173.9725	3
4550	6.651	0.683	0.390	0.361	0.920	11111	1.15	39174.9897	3
4550	6.621	0.662	0.379	0.312	0.864	11111	1.03	39175.9336	3
4550	6.650	0.673	0.411	0.330	0.871	11111	1.08	39176.9592	3
4550	6.632	0.685	0.397	0.331	0.887	11111	1.01	39178.8919	1
4550	6.616	0.632	0.376	0.344	0.884	11111	1.01	39184.8377	1
4550	6.586	0.619	0.365	0.341	0.885	11111	1.01	39201.8252	1
4550	6.647	0.661	0.391	0.312	0.864	11111	1.01	39202.8130	3
4550	6.621	0.649	0.393	0.313	0.875	11111	1.02	39227.7149	3
4550	6.592	0.649	0.362	0.340	0.876	11111	2.27	39227.9690	3
4550	6.610	0.637	0.375	0.327	0.877	11111	1.00	39240.7133	3
4550	6.612	0.654	0.396	0.332	0.875	11111	1.01	39243.6850	3
4550	6.606	0.649	0.384	0.314	0.861	11111	1.01	39247.7082	1
4550	6.618	0.665	0.395	0.311	0.874	11111	1.08	39249.7601	1
4550	6.593	0.641	0.385	0.313	0.859	11111	1.12	39251.7708	1
4550	6.609	0.635	0.367	0.326	0.884	11111	1.01	39257.6452	3
4550	6.621	0.651	0.387	0.343	0.869	11111	2.20	39257.8836	3
4550	6.593	0.623	0.384	0.325	0.871	11111	1.01	39258.6408	3
4550	6.627	0.668	0.384	0.312	0.862	11111	2.69	39258.9010	3
4550	6.610	0.605	0.359	0.330	0.890	11111	1.00	39268.6371	3
4550	6.619	0.645	0.387	0.317	0.881	11111	2.31	39268.8589	3
4550	6.607	0.621	0.375	0.340	0.888	11111	1.00	39269.6343	3
4550	6.623	0.644	0.391	0.317	0.857	11111	2.15	39269.8484	3
4550	6.618	0.634	0.382	0.319	0.877	11111	1.01	39270.6402	3
4550	6.614	0.638	0.368	0.334	0.881	11111	1.03	39272.6640	3
4550	6.613	0.632	0.378	0.329	0.866	11111	1.01	39274.6375	3
4550	6.610	0.642	0.386	0.317	0.860	11111	1.04	39278.6603	1
4550	6.607	0.620	0.375	0.320	0.866	11111	1.03	39280.6466	3
4550	6.633	0.655	0.389	0.326	0.866	11111	2.14	39280.8177	3
4550	6.603	0.622	0.366	0.324	0.859	11111	1.03	39281.6414	3
4550	6.653	0.663	0.390	0.319	0.877	11111	1.65	39482.8649	3
4550	6.668	0.686	0.408	0.310	0.871	11111	1.04	39509.0249	1
4554	2.419	-0.024	-0.015	-0.014	0.011	11111	1.13	38888.7400	3
4554	2.391	-0.032	-0.043	-0.024	0.008	11111	1.08	39174.9204	3
4589	4.732	0.090	0.029	0.056	0.118	11111	1.11	38789.9663	1
4589	4.673	0.068	0.050	0.064	0.142	11111	1.11	39154.9657	3
4608	4.325	0.723	0.442	0.425	1.259	11111	1.09	38865.7372	1
4608	4.355	0.719	0.441	0.445	1.273	11111	1.09	38896.6755	3
4608	4.340	0.694	0.426	0.458	1.282	11111	1.09	39184.8798	1
4660	3.318	0.070	0.043	0.003	0.095	11111	1.10	38865.7473	1
4660	3.360	0.047	0.038	0.023	0.122	11111	1.11	38896.6880	3
4660	3.317	0.057	0.007	0.004	0.110	11111	1.10	39184.8898	1
4662	2.527	-0.049	-0.050	-0.025	-0.140	11111	1.57	38869.7160	1
4662	2.547	-0.076	-0.050	-0.062	-0.175	11111	1.55	38898.6556	3
4662	2.633	0.012	0.005	-0.065	-0.165	11111	1.55	39199.8248	3
4689	3.892	0.072	0.052	-0.024	0.002	11111	1.20	38786.9394	1
4689	3.884	0.042	0.000	-0.003	0.009	11111	1.20	38787.9358	1
4689	3.912	0.021	0.035	0.000	0.012	11101	1.18	38791.9599	1
4695	5.236	0.886	0.574	0.487	1.576	11111	1.15	38869.7323	1
4695	5.264	0.896	0.562	0.500	1.583	11111	1.14	38898.6665	3
4695	5.275	0.920	0.573	0.501	1.572	11111	1.14	39199.8350	3
4697	4.951	0.742	0.436	0.454	1.309	11111	1.04	38874.7179	3
4697	4.973	0.756	0.452	0.456	1.339	11111	1.03	38898.6773	3
4697	4.969	0.765	0.466	0.463	1.317	11111	1.03	39199.8458	3
4707	4.927	0.434	0.251	0.209	0.555	11111	1.01	38874.7308	3
4707	4.932	0.447	0.258	0.232	0.579	11111	1.01	38898.6901	3
4707	4.937	0.442	0.261	0.213	0.580	11111	1.01	39178.9068	1
4716	4.952	0.678	0.417	0.405	1.144	11111	1.06	38865.7566	1
4716	4.944	0.637	0.381	0.410	1.166	11111	1.06	39148.9696	3
4716	4.959	0.658	0.403	0.392	1.130	11111	1.06	39201.8353	1
4737	4.608	0.845	0.553	0.468	1.571	11111	1.00	38865.7660	1
4737	4.676	0.831	0.524	0.458	1.570	11111	1.01	38868.7271	1
4737	4.600	0.789	0.527	0.502	1.605	11111	1.00	39148.9932	3
4737	4.547	0.833	0.530	0.469	1.579	11111	1.00	39197.8525	3
4757	2.968	-0.064	-0.043	-0.035	-0.047	11111	1.52	38875.7219	1
4757	2.951	-0.015	-0.031	-0.044	-0.055	11111	1.52	39149.0034	3
4757	2.915	-0.019	-0.010	-0.040	-0.075	11111	1.52	39197.8617	3
4775	4.404	0.298	0.167	0.175	0.436	11111	1.50	38875.7346	1
4775	4.376	0.309	0.209	0.179	0.412	11111	1.51	39150.9660	3
4775	4.331	0.257	0.174	0.164	0.433	11111	1.51	39197.8707	3
4785	4.469	0.519	0.288	0.225	0.608	11111	1.02	38868.7431	1
4785	4.391	0.471	0.280	0.268	0.667	11111	1.01	38875.7482	1
4785	4.377	0.454	0.284	0.292	0.676	11111	1.01	39150.9763	3
4785	4.389	0.470	0.286	0.281	0.673	11111	1.01	39184.9005	1
4785	4.367	0.479	0.263	0.258	0.681	11111	1.03	39251.7414	1
4787	3.842	-0.022	-0.056	-0.048	-0.167	11111	1.27	38890.6593	3
4787	3.840	-0.019	-0.048	-0.041	-0.184	11111	1.26	39150.9862	3
4787	3.837	0.001	-0.029	-0.067	-0.189	11111	1.26	39201.8456	1
4789	4.795	0.002	0.010	-0.026	-0.019	11111	1.03	38890.6706	3
4789	4.764	-0.025	-0.000	0.011	-0.015	11111	1.02	39150.9962	3
4789	4.783	-0.008	0.005	-0.038	-0.016	11111	1.02	39201.8561	1
4813	4.954	0.893	0.582	0.515	1.777	11111	1.32	38890.6807	3
4813	4.914	0.900	0.571	0.514	1.773	11111	1.31	39154.9822	3
4813	4.970	0.927	0.610	0.506	1.752	11111	1.32	39227.7574	3
4825	2.846	0.295	0.179	0.149	0.426	11111	1.23	38786.9517	1
4825	2.792	0.277	0.154	0.160	0.419	11111	1.21	38787.9691	1
4825	2.841	0.308	0.176	0.162	0.396	11111	1.21	38789.9993	1
4825	2.938	0.286	0.182	0.145	0.400	11111	1.20	38791.9721	1
4828	4.873	0.023	0.008	0.016	0.103	11111	1.08	38890.6911	3
4828	4.889	0.031	0.018	0.025	0.101	11111	1.08	39172.9240	3
4828	4.902	0.039	0.031	-0.004	0.102	11111	1.08	39227.7673	3
4845	6.075	0.455	0.256	0.192	0.594	11111	1.01	39254.7095	1
4845	6.066	0.432	0.266	0.256	0.636	11111	1.03	39258.6602	3
4846	5.487	1.666	1.021	1.884	6.771	11111	1.03	38890.7053	3
4846	5.858	1.826	1.107	2.118	7.006	11111	1.03	39172.9407	3
4846	5.867	1.831	1.112	2.109	6.940	11111	1.03	39176.9104	3
4846	5.531	1.670	1.016	1.922	6.732	11111	1.03	39249.7411	1
4846	5.570	1.680	1.013	1.908	6.798	11111	1.04	39270.6919	3
4883	5.059	0.511	0.308	0.329	0.796	11111	1.02	38890.7433	3
4883	5.086	0.534	0.341	0.401	0.792	11111	1.01	39172.9525	3
4883	5.104	0.547	0.329	0.315	0.811	11111	1.00	39178.9256	1
4902	5.137	1.251	0.682	0.773	2.233	11111	1.39	38890.7533	3
4902	5.105	1.266	0.696	0.760	2.283	11111	1.35	39173.9152	3
4902	5.111	1.269	0.702	0.750	2.237	11111	1.35	39229.7615	3
4905	1.770	-0.025	-0.002	-0.034	-0.036	11111	1.13	38890.7652	3
4905	1.761	0.018	0.000	-0.048	-0.033	11111	1.09	39173.9247	3
4905	1.812	0.013	0.027	-0.064	-0.058	11111	1.09	39229.7971	3
4910	3.742	1.208	0.640	0.749	2.261	11111	1.18	38894.6580	3
4910	3.725	1.208	0.631	0.729	2.253	11111	1.14	39173.9342	3
4910	3.730	1.205	0.637	0.738	2.250	11111	1.16	39240.7246	3
4914	5.670	0.242	0.140	0.136	0.354	11111	1.01	38894.6783	3
4914	5.675	0.275	0.130	0.110	0.335	11111	1.01	39174.9433	3
4914	5.666	0.264	0.165	0.136	0.322	11111	1.01	39240.7362	3
4915	2.938	-0.027	0.006	-0.100	-0.147	11111	1.01	38894.6921	3
4915	3.186	-0.050	-0.070	-0.165	-0.154	11111	1.02	39174.9612	3
4915	3.194	0.111	0.054	-0.202	-0.264	11111	1.01	39240.7568	3
4920	5.174	1.252	0.787	0.641	2.364	11111	1.03	38894.7038	3
4920	5.180	1.214	0.746	0.623	2.316	11111	1.07	39174.9792	3
4920	5.194	1.260	0.801	0.637	2.331	11111	1.03	39227.7906	3
4931	5.015	0.300	0.190	0.161	0.433	11111	1.10	38894.7163	3
4931	4.984	0.276	0.168	0.189	0.427	11111	1.10	39154.9938	3
4931	4.996	0.311	0.180	0.165	0.416	11111	1.10	39184.9111	1
4932	3.060	0.693	0.436	0.413	1.205	11111	1.08	38839.8682	3
4932	3.063	0.680	0.418	0.417	1.233	11111	1.07	38896.7004	3
4932	3.086	0.709	0.439	0.402	1.196	11111	1.07	39199.8806	3
4954	5.236	1.234	0.791	0.619	2.292	11111	1.01	38866.7738	1
4954	5.194	1.186	0.767	0.592	2.207	11111	1.00	39149.0150	3
4954	5.215	1.217	0.776	0.585	2.188	11111	1.02	39199.9087	3
4963	4.405	0.066	0.016	-0.009	-0.035	11111	1.27	38866.7948	1
4963	4.360	0.012	0.012	-0.017	0.006	11111	1.27	39149.0247	3
4963	4.426	0.036	0.018	-0.007	-0.043	11111	1.26	39202.8660	3
4983	4.346	0.483	0.301	0.286	0.693	11111	1.00	38869.7757	1
4983	4.361	0.446	0.291	0.281	0.667	11111	1.00	39151.0067	3
4983	4.371	0.461	0.291	0.248	0.644	11111	1.00	39201.8660	1
4983	4.342	0.452	0.291	0.255	0.658	11111	1.01	39251.7570	1
5017	4.756	0.262	0.185	0.115	0.395	11111	1.01	38869.7870	1
5017	4.781	0.221	0.176	0.138	0.372	11111	1.01	39151.0167	3
5017	4.797	0.245	0.183	0.088	0.358	11111	1.01	39201.8751	1
5019	4.835	0.588	0.335	0.311	0.886	11111	1.57	38871.7782	1
5019	4.867	0.550	0.354	0.298	0.839	11111	1.57	39151.0267	3
5019	4.964	0.581	0.363	0.300	0.843	11111	1.58	39202.8864	3
5054	2.054	0.016	0.011	-0.006	0.052	11111	1.08	38874.7770	3
5054	2.074	0.027	0.043	-0.025	0.022	11111	1.09	39151.0373	3
5054	2.058	0.022	-0.002	-0.025	0.044	11111	1.09	39176.9688	3
5056	0.964	-0.131	-0.081	-0.098	-0.315	11111	1.38	38874.7899	3
5056	0.875	-0.150	-0.106	-0.107	-0.311	11111	1.38	39155.0222	3
5056	0.950	-0.125	-0.074	-0.130	-0.326	11111	1.39	39176.9285	3
5062	4.030	0.118	0.071	0.053	0.202	11111	1.08	38875.7767	1
5062	4.054	0.137	0.069	0.045	0.204	11111	1.09	39173.9449	3
5062	3.984	0.125	0.058	0.038	0.194	11111	1.09	39197.9019	3
5068	5.022	0.786	0.491	0.486	1.530	11111	1.51	38875.7904	1
5068	5.009	0.786	0.493	0.466	1.533	11111	1.50	39173.9539	3
5068	4.969	0.776	0.489	0.465	1.510	11111	1.51	39197.9122	3
5072	5.132	0.571	0.347	0.312	0.852	11111	1.07	38875.8037	1
5072	5.156	0.576	0.350	0.297	0.853	11111	1.05	39173.9626	3
5072	5.199	0.549	0.331	0.368	0.959	11111	1.06	39202.8969	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
5095	5.083	1.285	0.771	0.704	2.444	11111	1.28	38869.8052	1
5095	5.097	1.246	0.725	0.720	2.398	11111	1.28	39175.9444	3
5095	5.156	1.237	0.713	0.780	2.463	11111	1.29	39202.9068	3
5105	4.914	0.056	-1.006	-0.022	0.001	11011	1.17	38786.9866	1
5105	4.936	0.054	0.066	-0.024	0.014	11111	1.17	38787.9795	1
5105	4.933	0.089	0.073	-0.066	0.008	11111	1.14	39206.8561	3
5107	3.272	0.116	0.089	0.050	0.139	11111	1.19	38786.9975	1
5107	3.464	0.057	0.040	0.033	0.123	11111	1.20	38787.9887	1
5107	3.376	0.097	0.044	0.040	0.138	11111	1.18	39206.8726	3
5110	5.053	0.345	0.183	0.192	0.442	11111	1.00	38887.7441	3
5110	5.081	0.360	0.166	0.181	0.420	11111	1.00	39175.9631	3
5110	5.040	0.361	0.212	0.172	0.421	11111	1.00	39206.8816	3
5112	4.673	0.139	0.092	0.059	0.146	11111	1.05	38870.8035	1
5112	4.683	0.069	0.021	0.064	0.181	11111	1.04	39175.9540	3
5112	4.690	0.089	0.033	0.036	0.163	11111	1.05	39268.6807	3
5127	4.817	0.230	0.128	0.110	0.266	11111	1.00	38871.8032	1
5127	4.778	0.201	0.103	0.092	0.267	11111	1.00	39175.9726	3
5127	4.806	0.198	0.108	0.095	0.248	11111	1.01	39206.8905	3
5154	5.064	1.243	0.747	0.742	2.463	11111	1.08	38887.7558	3
5154	5.054	1.268	0.731	0.738	2.407	11111	1.09	39175.9887	3
5154	5.024	1.280	0.756	0.758	2.436	11111	1.08	39268.6931	3
5185	4.596	0.397	0.259	0.204	0.548	11111	1.03	38888.7549	3
5185	4.595	0.392	0.232	0.223	0.555	11111	1.05	39175.9973	3
5185	4.588	0.391	0.214	0.220	0.575	11111	1.04	39268.7040	3
5191	1.823	-0.135	-0.074	-0.078	-0.219	11111	1.05	38888.7665	3
5191	1.821	-0.144	-0.097	-0.072	-0.227	11111	1.05	39155.0326	3
5191	1.813	-0.136	-0.099	-0.074	-0.208	11111	1.06	39269.6775	3
5200	4.445	1.208	0.781	0.593	2.251	11111	1.05	38889.7394	3
5200	4.460	1.208	0.766	0.604	2.265	11111	1.07	39176.0054	3
5200	4.443	1.203	0.776	0.597	2.253	11111	1.05	39269.6868	3
5219	5.075	1.252	0.692	0.783	2.467	11111	1.00	38889.7509	3
5219	5.185	1.262	0.686	0.794	2.423	11111	1.03	39176.0141	3
5219	5.113	1.263	0.683	0.818	2.455	11111	1.00	39269.6966	3
5226	4.953	1.227	0.640	0.773	2.301	11111	1.19	38889.7623	3
5226	4.891	1.236	0.650	0.769	2.300	11111	1.21	39176.0239	3
5226	4.945	1.231	0.622	0.768	2.283	11111	1.19	39258.7140	3
5235	2.779	0.471	0.314	0.235	0.706	11111	1.10	38786.9748	1
5235	2.817	0.471	0.279	0.217	0.697	11111	1.17	38787.9468	1
5235	2.825	0.516	0.287	0.233	0.687	11111	1.30	38789.9140	1
5235	2.826	0.458	0.286	0.233	0.699	11111	1.06	38791.9816	1
5235	2.802	0.483	0.286	0.254	0.702	11111	1.05	38865.7877	1
5235	2.811	0.480	0.305	0.250	0.698	11111	1.11	38865.8884	1
5235	2.764	0.486	0.296	0.251	0.708	11111	1.27	38869.7008	1
5235	2.777	0.477	0.292	0.294	0.732	11111	1.03	38869.8198	1
5235	2.775	0.482	0.279	0.266	0.712	11111	1.06	38871.7615	1
5264	4.171	0.111	0.056	0.065	0.099	11111	1.19	38787.0096	1
5264	4.240	0.103	0.037	0.032	0.112	11111	1.20	38787.9996	1
5264	4.258	0.079	0.037	0.026	0.104	11111	1.16	39269.7272	3
5291	3.626	-0.008	-0.008	-0.039	-0.073	11111	1.19	38865.7964	1
5291	3.619	-0.032	-0.024	-0.035	-0.094	11111	1.18	38921.6886	3
5291	3.677	0.007	-0.007	-0.052	-0.102	11111	1.18	39199.9191	3
5299	5.487	1.265	0.515	0.891	2.105	11111	1.03	38865.8062	1
5299	5.514	1.248	0.485	0.914	2.084	11111	1.02	38922.6829	1
5299	5.556	1.266	0.497	0.902	2.031	11111	1.02	39199.9294	3
5304	4.870	0.422	0.235	0.291	0.631	11111	1.01	38870.8198	1
5304	4.893	0.425	0.244	0.241	0.592	11111	1.01	38922.6939	1
5304	4.931	0.429	0.249	0.245	0.622	11111	1.01	39199.9389	3
5313	4.974	-0.025	-0.025	-0.052	-0.128	11111	1.15	38871.8200	1
5313	4.990	-0.017	-0.011	-0.092	-0.203	11111	1.19	38922.7169	1
5313	4.994	-0.093	-0.053	-0.064	-0.134	11111	1.15	39202.9181	3
5313	4.992	-0.068	-0.040	-0.073	-0.150	11111	1.19	39272.6802	3
5313	5.024	-0.066	-0.026	-0.075	-0.197	11111	1.18	39297.6876	3
5315	4.546	1.036	0.661	0.567	1.886	11111	1.36	38872.8124	3
5315	4.524	1.030	0.656	0.558	1.892	11111	1.36	38923.6799	1
5315	4.509	1.032	0.635	0.555	1.887	11111	1.37	39202.9297	3
5328	4.418	0.180	0.109	0.075	0.238	11111	1.06	38923.6904	1
5328	4.430	0.165	0.112	0.077	0.240	11111	1.06	39201.9311	1
5338	4.204	0.423	0.252	0.250	0.593	11111	1.27	38874.8192	3
5338	4.172	0.396	0.246	0.246	0.585	11111	1.30	38923.7101	1
5338	4.179	0.402	0.235	0.265	0.591	11111	1.29	39202.9401	3
5340	0.195	0.982	0.615	0.535	1.706	11111	1.18	38871.9099	1
5340	0.196	0.952	0.602	0.537	1.699	11111	1.03	38923.7001	1
5340	0.277	0.978	0.605	0.515	1.687	11111	1.03	39176.9796	3
5340	0.239	0.961	0.594	0.549	1.739	11111	1.04	39272.6916	3
5340	0.254	0.957	0.612	0.534	1.690	11111	1.06	39297.6981	3
5350	4.799	0.162	0.098	0.073	0.248	11111	1.06	38874.8351	3
5350	4.809	0.146	0.095	0.064	0.257	11111	1.06	38924.6748	3
5350	4.770	0.152	0.104	0.081	0.253	11111	1.07	39201.9401	1
5351	4.200	0.041	0.015	0.032	0.121	11111	1.05	38874.8487	3
5351	4.180	0.009	-0.006	0.013	0.136	11111	1.03	38924.6845	3
5351	4.137	0.063	0.010	0.008	0.083	11111	1.03	39206.9006	3
5359	4.548	0.080	0.045	0.033	0.179	11111	1.43	38887.7812	3
5359	4.522	0.053	0.055	0.032	0.154	11111	1.44	38925.6520	3
5359	4.526	0.102	0.057	0.033	0.150	11111	1.43	39269.6113	3
5361	5.039	0.750	0.468	0.472	1.429	11111	1.01	38887.7934	3
5361	5.059	0.781	0.489	0.444	1.404	11111	1.01	38924.6951	3
5361	5.013	0.782	0.477	0.442	1.408	11111	1.01	39206.9219	3
5370	5.140	0.916	0.599	0.494	1.739	11111	1.04	38925.6624	3
5370	5.166	0.955	0.628	0.476	1.716	11111	1.04	39227.8503	3
5370	5.153	0.935	0.593	0.493	1.737	11111	1.05	39272.7034	3
5384	6.390	0.509	0.304	0.288	0.721	11111	1.17	39258.7569	3
5384	6.374	0.487	0.288	0.294	0.748	11111	1.30	39269.6631	3
5404	4.159	0.412	0.250	0.233	0.575	11111	1.06	38888.7796	3
5404	4.140	0.401	0.235	0.224	0.574	11111	1.06	38925.6728	3
5404	4.168	0.422	0.263	0.229	0.574	11111	1.06	39227.8606	3
5409	4.974	0.540	0.336	0.325	0.821	11111	1.21	38888.7910	3
5409	4.940	0.537	0.329	0.311	0.791	11111	1.21	38925.6856	3
5409	4.965	0.560	0.337	0.320	0.817	11111	1.23	39227.8798	3
5429	3.931	1.009	0.647	0.541	1.834	11111	1.00	38839.9019	3
5429	3.904	0.990	0.627	0.545	1.835	11111	1.00	38926.6661	3
5429	3.920	1.006	0.648	0.513	1.802	11111	1.00	39240.8291	3
5430	4.601	1.089	0.715	0.595	2.071	11111	1.39	38888.8290	3
5430	4.595	1.085	0.685	0.601	2.098	11111	1.38	38926.6546	3
5430	4.613	1.122	0.716	0.587	2.093	11111	1.38	39257.7551	3
5435	3.108	0.161	0.086	0.070	0.236	11111	1.01	38839.9115	3
5435	3.095	0.122	0.080	0.079	0.230	11111	1.01	38926.6785	3
5435	3.065	0.133	0.067	0.071	0.219	11111	1.01	39268.7396	3
5447	4.566	0.336	0.187	0.184	0.398	11111	1.00	38839.9201	3
5447	4.548	0.325	0.185	0.150	0.393	11111	1.00	38928.6726	3
5447	4.563	0.332	0.187	0.172	0.365	11111	1.00	39240.8385	3
5475	4.524	0.084	0.073	-0.084	-0.121	11111	1.04	38870.8316	1
5475	4.536	0.029	-0.001	-0.031	-0.051	11111	1.04	38928.6826	3
5475	4.526	0.031	0.000	-0.040	-0.057	11111	1.04	39268.7505	3
5477	3.794	0.047	0.020	0.016	0.076	11111	1.06	38869.8380	1
5477	3.789	0.017	0.012	-0.015	0.065	11111	1.06	38928.6931	3
5487	3.947	0.334	0.239	0.182	0.411	11111	1.36	38788.0114	1
5487	3.951	0.311	0.181	0.185	0.435	11111	1.28	38929.6557	3
5490	5.163	1.295	0.738	0.783	2.489	11111	1.01	38865.8508	1
5490	5.152	1.241	0.692	0.798	2.424	11111	1.01	38929.6675	3
5490	5.184	1.280	0.735	0.791	2.461	11111	1.02	39172.9856	3
5490	5.157	1.292	0.724	0.780	2.456	11111	1.01	39197.9240	3
5490	5.152	1.290	0.733	0.788	2.447	11111	1.01	39279.7147	3
5490	5.166	1.273	0.713	0.770	0.000	11110	1.01	39296.6792	3
5502	4.828	0.738	0.462	0.407	1.255	11111	1.04	38865.8591	1
5502	4.849	0.700	0.443	0.453	1.278	11111	1.04	39173.0046	3
5502	4.763	0.692	0.414	0.429	1.277	11111	1.04	39197.9341	3
5505	2.594	0.744	0.476	0.441	1.222	11111	1.01	38865.8684	1
5505	2.626	0.732	0.485	0.419	1.224	11111	1.01	39172.9946	3
5505	2.615	0.753	0.459	0.440	1.225	11111	1.01	39176.9900	3
5511	3.690	0.018	0.008	-0.001	-0.004	11111	1.16	38871.8376	1
5511	3.754	0.000	-0.003	-0.013	-0.009	11111	1.16	39173.0130	3
5511	3.696	0.013	-0.004	-0.030	-0.010	11111	1.16	39197.9442	3
5531	2.785	0.084	0.062	0.043	0.188	11111	1.51	38889.7784	3
5531	2.783	0.099	0.064	0.040	0.183	11111	1.50	39173.0215	3
5544	4.728	0.642	0.403	0.296	0.903	11111	1.04	38889.8221	3
5544	4.756	0.679	0.418	0.288	0.908	11111	1.03	39173.9954	3
5544	4.728	0.675	0.405	0.302	0.913	11111	1.03	39258.7883	3
5563	2.481	1.143	0.736	0.597	2.165	11111	1.36	38889.8368	3
5563	2.474	1.132	0.723	0.599	2.136	11111	1.35	39155.0432	3
5563	2.451	1.139	0.732	0.612	2.172	11111	1.35	39257.7645	3
5570	4.531	0.256	0.158	0.138	0.363	11111	1.25	38890.7766	3
5570	4.553	0.294	0.166	0.135	0.347	11111	1.25	39174.0043	3
5570	4.535	0.270	0.152	0.137	0.339	11111	1.25	39258.7796	3
5586	4.927	0.047	0.032	-0.007	-0.032	11111	1.35	38890.8316	3
5586	5.581	0.076	0.039	-0.026	0.050	11111	1.32	39174.0131	3
5586	4.912	0.033	0.001	0.001	-0.011	11111	1.33	39258.7693	3
5586	4.955	0.051	0.029	-0.010	-0.025	11111	1.32	39279.7250	3
5589	4.808	1.243	0.533	0.896	2.127	11111	1.20	38890.7897	3
5589	4.951	1.257	0.495	0.895	2.079	11111	1.20	39175.0040	3
5589	4.972	1.260	0.490	0.918	2.078	11111	1.20	39257.7743	3
5589	4.931	1.277	0.514	0.928	2.151	11111	1.20	39279.7364	3
5600	5.243	1.208	0.781	0.603	2.232	11111	1.01	38839.9299	3
5600	5.180	1.189	0.771	0.610	2.220	11111	1.01	38921.7051	3
5601	4.550	0.788	0.489	0.469	1.392	11111	1.16	38870.8686	1
5601	4.609	0.769	0.471	0.468	1.386	11111	1.16	38921.7182	3

TABLE 8 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 52

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
5602	3.733	0.715	0.432	0.426	1.261	11111	1.01	38839.9391	3
5602	3.697	0.691	0.416	0.436	1.232	11111	1.01	38925.6978	3
5616	4.785	0.986	0.620	0.543	1.779	11111	1.00	38871.8557	1
5616	4.836	0.944	0.591	0.529	1.770	11111	1.00	38924.7057	3
5634	4.977	0.383	0.223	0.212	0.504	11111	1.01	38871.8692	1
5634	5.027	0.368	0.205	0.195	0.494	11111	1.02	38925.7341	3
5652	4.571	-0.004	0.010	-0.065	-0.134	11111	1.65	38874.8735	3
5652	4.537	-0.033	-0.012	-0.036	-0.114	11111	1.63	38926.6961	3
5681	3.704	0.717	0.433	0.437	1.209	11111	1.02	38874.8867	3
5681	3.726	0.713	0.426	0.449	1.239	11111	1.00	38926.7066	3
5685	2.438	-0.027	-0.025	-0.052	-0.179	11111	1.52	38787.0194	1
5685	2.572	-0.057	-0.030	-0.041	-0.179	11111	1.50	38788.0207	1
5685	2.617	-0.070	-0.049	-0.051	-0.138	11111	1.53	38790.0088	1
5685	0.000	0.000	-0.035	-0.050	-0.165	00111	2.41	38839.8016	3
5685	2.620	-0.028	-0.029	-0.060	-0.176	11111	1.34	38839.9591	3
5685	2.639	-0.037	-0.032	-0.054	-0.150	11111	2.13	38872.7249	3
5685	2.544	-0.062	-0.030	-0.038	-0.152	11111	1.37	38872.8903	3
5685	2.627	-0.044	-0.026	-0.050	-0.160	11111	1.41	38874.8055	3
5685	2.615	-0.034	-0.029	-0.063	-0.158	11111	1.34	38874.8611	3
5685	2.619	-0.044	-0.031	-0.062	-0.158	11111	1.36	38875.8206	1
5685	2.587	-0.054	-0.041	-0.049	-0.156	11111	2.04	38877.7168	3
5685	2.615	-0.055	-0.046	-0.040	-0.139	11111	1.41	38887.7696	3
5685	2.596	-0.026	-0.034	-0.048	-0.157	11111	2.22	38887.9569	3
5685	2.583	-0.059	-0.033	-0.050	-0.166	11111	1.34	38888.8148	3
5685	2.595	-0.059	-0.045	-0.051	-0.164	11111	1.34	38889.8100	3
5685	2.606	-0.060	-0.029	-0.051	-0.164	11111	1.34	38890.8202	3
5685	2.582	-0.071	-0.034	-0.060	-0.181	11111	1.35	38894.8173	3
5685	2.580	-0.060	-0.033	-0.077	-0.192	11111	2.04	38898.9165	3
5685	2.576	-0.073	-0.051	-0.051	-0.152	11111	1.35	38916.7175	3
5685	2.627	-0.047	-0.018	-0.068	-0.169	11111	2.33	38916.8827	3
5685	2.554	-0.079	-0.064	-0.042	-0.143	11111	1.34	38917.7234	3
5685	2.603	-0.060	-0.026	-0.064	-0.154	11111	2.39	38917.8828	3
5685	2.586	-0.060	-0.043	-0.054	-0.170	11111	1.34	38918.7312	3
5685	2.605	-0.060	-0.039	-0.053	-0.160	11111	1.54	38919.6523	1
5685	2.569	-0.083	-0.038	-0.073	-0.194	11111	1.53	38921.6482	3
5685	2.559	-0.069	-0.035	-0.054	-0.148	11111	1.34	38921.7298	3
5685	2.591	-0.063	-0.057	-0.056	-0.175	11111	1.48	38922.6561	1
5685	2.597	-0.066	-0.044	-0.043	-0.143	11111	1.46	38923.6570	1
5685	2.591	-0.056	-0.037	-0.050	-0.162	11111	1.34	38923.7197	1
5685	2.575	-0.082	-0.062	-0.066	-0.156	11111	1.47	38924.6526	3
5685	2.593	-0.071	-0.035	-0.055	-0.159	11111	1.34	38924.7156	3
5685	2.591	-0.052	-0.034	-0.048	-0.154	11111	2.64	38924.8730	3
5685	2.555	-0.101	-0.062	-0.048	-0.159	11111	1.60	38925.6275	3
5685	2.597	-0.041	-0.026	-0.048	-0.165	11111	1.34	38925.7142	3
5685	2.613	-0.037	-0.022	-0.060	-0.169	11111	2.08	38925.8456	3
5685	2.567	-0.100	-0.074	-0.053	-0.160	11111	1.55	38926.6322	3
5685	2.602	-0.058	-0.032	-0.035	-0.157	11111	1.34	38926.7180	3
5685	2.600	-0.055	-0.034	-0.031	-0.154	11111	2.39	38926.8582	3
5685	2.599	-0.071	-0.045	-0.047	-0.168	11111	1.44	38928.6492	3
5685	2.601	-0.051	-0.023	-0.058	-0.159	11111	2.50	38928.8571	3
5685	2.575	-0.079	-0.044	-0.070	-0.176	11111	1.50	38929.6329	3
5685	2.591	-0.085	-0.037	-0.039	-0.131	11111	2.38	38929.8494	3
5685	2.611	-0.045	-0.029	-0.055	-0.142	11111	1.58	39139.0458	3
5685	2.604	-0.052	-0.034	-0.064	-0.154	11111	2.21	39139.9892	3
5685	2.632	-0.018	-0.013	-0.056	-0.154	11111	2.44	39140.9757	3
5685	2.610	-0.040	-0.018	-0.065	-0.175	11111	2.17	39147.9694	3
5685	2.589	-0.065	-0.041	-0.067	-0.164	11111	2.34	39148.9584	3
5685	2.586	-0.057	-0.046	-0.056	-0.149	11111	1.42	39149.0498	3
5685	2.600	-0.024	-0.013	-0.056	-0.169	11111	1.41	39151.0490	3
5685	2.620	-0.044	-0.029	-0.060	-0.163	11111	2.29	39154.9440	3
5685	2.574	-0.048	-0.027	-0.062	-0.171	11111	1.37	39155.0523	3
5685	2.612	-0.039	-0.029	-0.058	-0.161	11111	1.34	39173.0400	3
5685	2.589	-0.063	-0.042	-0.057	-0.144	11111	2.08	39173.9034	3
5685	2.626	-0.058	-0.044	-0.060	-0.161	11111	2.42	39174.8841	3
5685	2.616	-0.036	-0.024	-0.062	-0.157	11111	2.23	39175.8895	3
5685	2.605	-0.036	-0.028	-0.044	-0.178	11111	1.34	39176.0332	3
5685	2.624	-0.026	-0.020	-0.077	-0.176	11111	1.36	39185.0328	1
5685	2.557	-0.041	-0.041	-0.057	-0.173	11111	1.34	39197.9539	3
5685	2.616	-0.049	-0.028	-0.065	-0.164	11111	1.40	39201.9120	1
5685	2.585	-0.057	-0.053	-0.047	-0.152	11111	1.34	39202.9520	3
5685	2.583	-0.023	-0.024	-0.069	-0.178	11111	1.34	39206.9311	3
5685	2.596	-0.049	-0.052	-0.071	-0.175	11111	1.34	39228.8682	1
5685	2.586	-0.044	-0.033	-0.056	-0.163	11111	2.38	39229.7355	3
5685	2.590	-0.067	-0.024	-0.072	-0.184	11111	1.38	39229.9197	3
5685	2.533	-0.062	-0.049	-0.048	-0.142	11111	1.35	39231.8586	1
5685	2.548	-0.069	-0.068	-0.057	-0.154	11111	1.35	39241.8264	3
5685	2.615	-0.035	-0.018	-0.064	-0.171	11111	1.34	39246.8302	1
5685	2.623	-0.041	-0.032	-0.052	-0.155	11111	1.55	39246.9152	1
5685	2.634	-0.055	-0.041	-0.050	-0.154	11111	1.34	39247.8183	1
5685	2.626	-0.043	-0.014	-0.046	-0.161	11111	1.35	39249.8497	1
5685	2.604	-0.047	0.035	-0.049	-0.160	11111	1.34	39252.8307	1
5685	2.592	-0.057	-0.038	-0.057	-0.159	11111	1.34	39257.8047	3
5685	2.591	-0.062	-0.049	-0.048	-0.144	11111	1.39	39270.7282	3
5685	2.595	-0.052	-0.028	-0.058	-0.161	11111	2.49	39270.9200	3
5685	2.592	-0.063	-0.026	-0.051	-0.166	11111	1.41	39272.7162	3
5685	2.585	-0.054	-0.030	-0.051	-0.174	11111	2.59	39272.9182	3
5685	2.583	-0.083	-0.054	-0.033	-0.129	11111	1.44	39279.6873	3
5685	2.593	-0.060	-0.031	-0.042	-0.141	11111	1.34	39280.7342	3
5685	2.601	-0.047	-0.045	-0.036	-0.139	11111	1.34	39281.7310	3
5685	2.610	-0.051	-0.017	-0.063	-0.165	11111	2.29	39281.8817	3
5685	2.599	-0.061	-0.045	-0.040	-0.147	11111	1.41	39295.6516	1
5685	2.619	-0.051	-0.028	-0.054	-0.164	11111	1.41	39296.6489	3
5685	2.593	-0.054	-0.031	-0.047	-0.156	11111	1.37	39297.6649	3
5685	2.627	-0.066	-0.031	-0.090	-0.176	11111	1.38	39298.6537	1
5685	2.592	-0.059	-0.040	-0.055	-0.154	11111	1.41	39300.6381	3
5685	2.610	-0.051	-0.037	-0.053	-0.157	11111	1.34	39307.6579	1
5685	2.621	-0.045	-0.017	-0.052	-0.152	11111	1.34	39313.6411	1
5685	2.629	-0.035	-0.034	-0.037	-0.154	11111	1.57	39313.7350	1
5733	4.371	0.242	0.164	0.136	0.360	11111	1.01	38875.8349	1
5733	4.391	0.280	0.147	0.120	0.343	11111	1.00	38928.7145	3
5735	3.056	0.110	0.079	0.012	0.026	11111	1.30	38869.8564	1
5735	3.070	0.084	0.033	0.020	0.026	11111	1.30	38928.7050	3
5735	3.040	0.075	0.015	0.029	0.032	11111	1.30	39257.7847	3
5744	3.611	0.921	0.608	0.472	1.617	11111	1.12	38869.8726	1
5744	3.594	0.878	0.562	0.484	1.621	11111	1.13	38929.6788	3
5747	3.729	0.193	0.154	0.097	0.356	11111	1.00	38875.8475	1
5747	3.727	0.200	0.117	0.092	0.364	11111	1.01	38929.6891	3
5763	5.470	1.238	0.787	0.694	2.352	11111	1.03	38894.7684	3
5764	5.503	-0.084	-0.060	-0.050	-0.202	11111	1.53	38875.8659	1
5764	5.487	-0.087	-0.076	-0.051	-0.209	11111	1.56	39184.9838	1
5774	5.014	0.070	0.047	0.016	0.085	11111	1.01	39185.0053	1
5777	4.862	0.789	0.497	0.406	1.318	11111	1.38	38894.7808	3
5777	4.846	0.767	0.473	0.441	1.348	11111	1.36	38929.6994	3
5778	4.146	-0.067	-0.055	-0.050	-0.185	11111	1.00	38839.9492	3
5778	4.121	-0.089	-0.045	-0.049	-0.175	11111	1.00	39185.0144	1
5780	5.123	-0.055	-0.045	-0.049	-0.149	11111	1.34	38894.8283	3
5780	5.138	-0.051	-0.032	-0.062	-0.122	11111	1.34	39185.0232	1
5787	4.121	0.751	0.466	0.434	1.293	11111	1.47	38896.8148	3
5787	4.140	0.769	0.455	0.459	1.317	11111	1.47	39199.9666	3
5788	3.800	0.179	0.105	0.094	0.290	11111	1.09	38896.8280	3
5788	3.859	0.218	0.146	0.082	0.286	11111	1.08	39199.9773	3
5793	2.196	-0.044	-0.020	-0.020	-0.033	11111	1.02	38896.8400	3
5793	2.232	0.005	0.009	-0.043	-0.039	11111	1.01	39199.9862	3
5793	2.212	-0.028	-0.016	-0.049	-0.046	11111	1.01	39241.8669	3
5838	5.195	1.283	0.793	0.638	2.314	11111	1.82	38898.7392	3
5838	5.160	1.271	0.789	0.636	2.303	11111	1.62	39206.9535	3
5842	4.552	0.044	0.028	-0.006	0.072	11111	1.08	38898.7495	3
5842	4.521	0.019	0.023	0.000	0.053	11111	1.03	39201.9511	1
5849	3.833	-0.004	-0.001	-0.015	0.002	11111	1.04	38898.7600	3
5849	3.828	0.020	0.035	-0.031	-0.001	11111	1.01	39201.9601	1
5854	2.879	0.860	0.576	0.488	1.654	11111	1.39	38791.9934	1
5854	2.918	0.857	0.553	0.486	1.652	11111	2.29	38839.7922	3
5854	2.931	0.871	0.566	0.493	1.676	11111	1.11	38839.9680	3
5854	2.919	0.859	0.539	0.483	1.647	11111	2.14	38874.7033	3
5854	2.921	0.866	0.557	0.482	1.640	11111	1.11	38875.8780	1
5854	2.917	0.867	0.566	0.476	1.648	11111	1.11	38887.8317	3
5854	2.919	0.862	0.569	0.475	1.645	11111	1.12	38889.8489	3
5854	2.913	0.862	0.561	0.482	1.632	11111	1.14	38890.8679	3
5854	2.924	0.867	0.546	0.475	1.632	11111	2.12	38898.9753	3
5854	2.940	0.862	0.569	0.477	1.631	11111	1.13	38916.7912	3
5854	2.925	0.857	0.548	0.492	1.653	11111	2.31	38916.9345	3
5854	2.905	0.882	0.564	0.472	1.641	11111	1.12	38917.7334	3
5854	2.955	0.898	0.575	0.482	1.629	11111	2.25	38917.9293	3
5854	2.932	0.873	0.570	0.479	1.645	11111	1.11	38918.7422	3
5854	2.913	0.874	0.567	0.479	1.640	11111	1.29	38919.6630	1
5854	2.896	0.849	0.547	0.472	1.622	11111	1.24	38921.6687	3
5854	2.904	0.865	0.561	0.480	1.645	11111	1.11	38921.7426	3
5854	2.893	0.842	0.541	0.477	1.625	11111	1.23	38922.6672	1
5854	2.931	0.864	0.567	0.468	1.624	11111	1.23	38923.6666	1
5854	2.916	0.885	0.571	0.477	1.641	11111	1.11	38923.7295	1
5854	2.922	0.847	0.547	0.483	1.647	11111	1.23	38924.6639	3
5854	2.939	0.879	0.560	0.474	1.643	11111	1.11	38924.7247	3
5854	2.919	0.878	0.580	0.463	1.623	11111	2.49	38924.9195	3
5854	2.875	0.841	0.550	0.473	1.630	11111	1.31	38925.6403	3
5854	2.927	0.879	0.564	0.481	1.634	11111	1.11	38925.7235	3
5854	2.958	0.888	0.566	0.499	1.664	11111	2.21	38925.9059	3
5854	2.890	0.847	0.546	0.481	1.650	11111	1.29	38926.6418	3
5854	2.944	0.883	0.575	0.475	1.659	11111	1.11	38926.7284	3
5854	2.927	0.878	0.540	0.489	1.667	11111	2.42	38926.9114	3
5854	2.928	0.862	0.562	0.484	1.657	11111	1.20	38928.6598	3
5854	2.918	0.854	0.540	0.482	1.646	11111	2.54	38928.9101	3
5854	2.913	0.863	0.562	0.472	1.631	11111	1.25	38929.6431	3
5854	2.928	0.899	0.578	0.457	1.621	11111	2.61	38929.9095	3
5854	2.942	0.871	0.569	0.489	1.643	11111	1.32	39139.0552	3
5854	2.919	0.845	0.542	0.486	1.625	11111	2.08	39139.9797	3
5854	2.947	0.872	0.569	0.474	1.629	11111	2.34	39140.9655	3
5854	2.944	0.868	0.572	0.479	1.620	11111	2.09	39147.9575	3
5854	2.922	0.875	0.571	0.457	1.615	11111	2.21	39148.9489	3
5854	2.911	0.863	0.558	0.487	1.652	11111	1.20	39149.0585	3
5854	2.936	0.869	0.587	0.471	1.618	11111	1.18	39151.0586	3
5854	2.991	0.864	0.558	0.469	1.626	11111	2.10	39151.9462	3
5854	2.928	0.870	0.561	0.480	1.626	11111	2.20	39154.9331	3
5854	2.900	0.838	0.542	0.489	1.643	11111	1.15	39155.0606	3
5854	2.926	0.848	0.550	0.491	1.645	11111	1.11	39173.0485	3
5854	2.941	0.872	0.555	0.466	1.622	11111	2.15	39173.8833	3
5854	2.952	0.875	0.556	0.457	1.640	11111	2.28	39174.8750	3
5854	2.939	0.875	0.565	0.474	1.638	11111	2.16	39175.8775	3
5854	2.920	0.878	0.578	0.477	1.624	11111	1.11	39176.0415	3
5854	2.947	0.853	0.563	0.458	1.663	11111	1.12	39185.0417	1
5854	2.939	0.863	0.568	0.482	1.644	11111	1.18	39201.9208	1
5854	2.902	0.848	0.553	0.491	1.644	11111	1.11	39202.9613	3
5854	2.897	0.865	0.556	0.477	1.636	11111	1.12	39206.9409	3
5854	2.892	0.859	0.556	0.476	1.629	11111	1.16	39228.8570	1
5854	2.933	0.858	0.555	0.487	1.649	11111	2.27	39229.7252	3
5854	2.940	0.898	0.605	0.485	1.628	11111	1.13	39229.9293	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
5854	2.856	0.880	0.571	0.459	1.647	11111	1.12	39231.8697	1
5854	2.892	0.835	0.532	0.478	1.640	11111	1.13	39241.8364	3
5854	0.000	0.000	0.594	0.473	1.614	00111	1.12	39246.8747	1
5854	2.923	0.876	0.565	0.493	1.647	11111	1.23	39246.9268	1
5854	2.907	0.870	0.561	0.487	1.649	11111	1.16	39270.7385	3
5854	2.929	0.883	0.574	0.480	1.638	11111	2.21	39270.9610	3
5854	2.909	0.856	0.553	0.476	1.645	11111	1.18	39272.7268	3
5854	2.923	0.881	0.575	0.484	1.643	11111	2.18	39272.9545	3
5854	2.942	0.894	0.570	0.471	1.656	11111	1.12	39274.7573	3
5854	2.932	0.869	0.561	0.490	1.663	11111	1.21	39279.6975	3
5854	2.931	0.887	0.577	0.445	1.629	11111	2.24	39279.9377	3
5854	2.941	0.884	0.581	0.469	1.653	11111	1.12	39280.7434	3
5854	2.927	0.872	0.564	0.487	1.650	11111	1.11	39281.7569	3
5854	2.916	0.881	0.575	0.487	1.644	11111	2.26	39281.9331	3
5854	2.919	0.875	0.573	0.466	1.627	11111	1.16	39295.6732	1
5854	2.906	0.869	0.563	0.478	1.644	11111	1.19	39296.6585	3
5854	2.921	0.863	0.557	0.477	1.638	11111	1.14	39297.6759	3
5854	2.926	0.853	0.550	0.472	1.649	11111	1.14	39298.6777	1
5854	2.911	0.857	0.546	0.486	1.648	11111	1.19	39300.6478	3
5854	2.917	0.867	0.557	0.481	1.648	11111	2.21	39300.8792	3
5854	2.913	0.864	0.558	0.480	1.650	11111	1.12	39307.6672	1
5854	2.913	0.861	0.555	0.473	1.642	11111	1.12	39313.6576	1
5854	2.949	0.896	0.578	0.468	1.628	11111	1.30	39313.7607	1
5859	5.598	0.012	0.012	-0.005	0.035	11111	1.15	38898.7712	3
5859	5.542	0.047	0.006	-0.012	0.003	11111	1.12	39206.9635	3
5867	3.687	0.050	0.029	0.014	0.108	11111	1.06	38898.7818	3
5867	3.698	0.068	0.056	-0.001	0.077	11111	1.05	39201.9705	1
5867	3.674	0.041	0.021	-0.009	0.072	11111	1.05	39241.8571	3
5868	4.585	0.506	0.295	0.275	0.703	11111	1.11	38898.7927	3
5868	4.512	0.498	0.281	0.259	0.699	11111	1.10	39206.9729	3
5868	4.527	0.477	0.293	0.273	0.663	11111	1.10	39251.8478	1
5868	4.608	0.584	0.436	0.201	0.621	11111	1.11	39252.8517	1
5879	4.526	1.288	0.803	0.677	2.410	11111	1.04	38898.8342	3
5879	4.532	1.300	0.802	0.676	2.365	11111	1.03	39197.9977	3
5879	4.491	1.239	0.768	0.683	2.398	11111	1.04	39241.8475	3
5879	4.495	1.281	0.793	0.680	2.392	11111	1.04	39296.6970	3
5881	3.549	-0.013	-0.020	-0.023	-0.052	11111	1.26	38898.8446	3
5881	3.553	0.002	0.000	-0.036	-0.055	11111	1.24	39227.8910	3
5889	4.824	0.622	0.395	0.360	0.966	11111	1.01	38915.7449	3
5889	4.796	0.609	0.367	0.353	0.968	11111	1.01	39201.9801	1
5892	3.760	0.113	0.069	0.004	0.186	11111	1.13	38915.7568	3
5892	3.741	0.109	0.076	0.035	0.208	11111	1.13	39227.9161	3
5899	5.177	1.229	0.786	0.614	2.304	11111	1.02	38915.7681	3
5899	5.136	1.195	0.775	0.629	2.236	11111	1.03	39228.8787	1
5901	5.004	0.796	0.510	0.411	1.317	11111	1.00	38870.8842	1
5901	4.996	0.752	0.486	0.415	1.332	11111	1.00	39228.8934	1
5902	5.058	0.068	0.026	-0.032	-0.078	11111	1.65	38915.7830	3
5902	5.004	0.024	0.015	-0.018	-0.066	11111	1.72	39229.8641	3
5903	4.282	0.029	-0.016	0.013	0.040	11111	1.49	38916.6649	3
5903	4.196	-0.005	-0.013	0.028	0.039	11111	1.43	39228.9044	1
5903	4.296	0.045	0.007	0.016	0.020	11111	1.43	39257.7937	3
5908	4.355	0.768	0.446	0.470	1.358	11111	1.82	38916.6814	3
5908	4.359	0.792	0.518	0.447	1.315	11111	1.56	39229.8750	3
5914	4.718	0.471	0.267	0.278	0.646	11111	1.08	38916.6923	3
5914	4.698	0.471	0.290	0.266	0.621	11111	1.02	39228.9160	1
5915	5.939	0.028	-0.007	-0.001	-0.041	11111	1.76	38916.7059	3
5915	5.927	0.034	0.020	-0.007	-0.047	11111	1.63	39229.8870	3
5933	3.943	0.404	0.223	0.204	0.530	11111	1.07	38916.7274	3
5933	3.967	0.436	0.277	0.211	0.512	11111	1.04	39229.9081	3
5941	4.882	-0.025	-0.027	0.006	-0.155	11111	1.48	38916.7409	3
5941	4.936	0.002	-0.041	0.001	-0.117	11111	1.47	39231.8855	1
5947	4.483	0.959	0.604	0.516	1.700	11111	1.00	38839.9767	3
5947	4.457	0.940	0.600	0.524	1.721	11111	1.01	38877.8658	3
5947	4.442	0.932	0.582	0.522	1.718	11111	1.05	38894.8825	3
5947	4.466	0.948	0.601	0.522	1.715	11111	1.01	38898.8244	3
5947	4.437	0.934	0.595	0.514	1.709	11111	1.05	38915.7178	3
5947	4.455	0.952	0.589	0.523	1.699	11111	1.01	38928.7250	3
5947	4.447	0.942	0.582	0.518	1.725	11111	1.01	38929.7097	3
5947	4.430	0.895	0.569	0.549	1.714	11111	2.61	39016.7144	3
5947	4.432	0.929	0.577	0.512	1.716	11111	2.66	39018.7104	3
5947	4.437	0.924	0.551	0.520	1.711	11111	2.63	39025.6904	3
5947	4.436	0.916	0.581	0.516	1.713	11111	2.41	39026.6803	3
5947	4.447	0.927	0.571	0.505	1.674	11111	2.62	39028.6820	3
5947	4.474	0.937	0.603	0.509	1.706	11111	1.94	39176.8635	3
5947	4.454	0.921	0.591	0.523	1.724	11111	1.02	39177.0216	3
5947	4.440	0.917	0.586	0.519	1.718	11111	1.12	39184.9487	1
5947	4.432	0.931	0.590	0.541	1.739	11111	1.98	39197.8042	3
5947	4.438	0.928	0.589	0.508	1.689	11111	1.01	39198.0066	3
5947	4.438	0.940	0.606	0.515	1.706	11111	2.31	39199.7825	3
5947	4.428	0.928	0.585	0.518	1.724	11111	1.00	39199.9956	3
5947	4.441	0.917	0.587	0.515	1.728	11111	1.01	39202.0084	1
5947	4.478	0.946	0.605	0.507	1.693	11111	2.26	39206.7657	3
5947	4.424	0.928	0.548	0.528	1.723	11111	1.07	39229.8441	3
5947	4.438	0.916	0.564	0.536	1.721	11111	1.01	39231.9216	1
5947	4.480	0.960	0.612	0.516	1.723	11111	1.04	39238.8387	1
5947	4.439	0.920	0.464	0.522	1.725	11111	1.23	39252.9608	1
5947	4.451	0.947	0.583	0.533	1.701	11111	1.02	39258.8612	3
5947	4.452	0.948	0.587	0.518	1.710	11111	1.00	39270.7971	3
5947	4.441	0.935	0.583	0.530	1.697	11111	1.01	39272.8038	3
5947	4.443	0.941	0.591	0.508	1.698	11111	1.01	39279.7895	3
5947	4.436	0.932	0.590	0.515	1.699	11111	1.02	39298.7495	1
5947	4.440	0.935	0.596	0.520	1.700	11111	1.01	39307.7225	1
5947	4.458	0.936	0.604	0.521	1.727	11111	1.01	39318.6889	1
5958	8.177	1.168	0.754	0.609	2.179	11111	1.01	38916.7805	3
5958	8.145	1.207	0.761	0.585	2.146	11111	1.02	39197.9707	3
5958	10.608	1.294	0.558	0.823	1.990	11111	1.01	39240.8718	3
5958	10.331	1.244	0.526	0.808	1.902	11111	1.01	39296.7201	3
5960	5.003	0.217	0.129	0.093	0.303	11111	1.08	38916.7538	3
5960	5.072	0.202	0.129	0.126	0.319	11111	1.08	39231.9000	1
5971	4.940	-0.033	-0.012	-0.046	-0.091	11111	1.00	38870.8970	1
5971	4.990	-0.046	-0.022	-0.028	-0.086	11111	1.00	39231.9109	1
5972	4.846	0.026	0.034	0.020	0.112	11111	1.02	38869.9079	1
5972	4.829	0.057	0.026	-0.012	0.068	11111	1.02	38923.7403	1
5977	4.201	0.332	0.218	0.220	0.537	11111	1.38	38871.8864	1
5977	4.233	0.361	0.224	0.208	0.517	11111	1.39	38923.7723	1
5982	4.723	-0.043	-0.028	-0.036	-0.148	11111	1.03	38874.9008	3
5982	4.682	-0.059	-0.024	-0.058	-0.152	11111	1.03	38923.7601	1
5984	2.516	-0.015	-0.032	-0.010	-0.138	11111	1.63	38875.8913	1
5984	2.509	-0.032	-0.028	0.000	-0.143	11111	1.63	38924.7363	3
5986	4.135	0.418	0.257	0.237	0.610	11111	1.12	38875.9087	1
5986	4.107	0.430	0.249	0.237	0.602	11111	1.11	38923.7502	1
5993	3.949	0.011	0.007	0.009	-0.116	11111	1.66	38887.8454	3
5993	3.964	-0.008	-0.007	0.007	-0.100	11111	1.66	38924.7471	3
5997	4.480	0.618	0.396	0.395	1.062	11111	1.67	38887.8569	3
5997	4.491	0.632	0.364	0.385	1.051	11111	1.67	38924.7571	3
6018	4.935	0.788	0.491	0.430	1.347	11111	1.00	38870.9095	1
6018	4.990	0.794	0.488	0.410	1.325	11111	1.01	38924.7678	3
6023	4.227	-0.040	-0.027	-0.033	-0.083	11111	1.38	38877.7311	3
6023	4.248	-0.012	-0.014	-0.047	-0.104	11111	1.02	38925.7475	3
6027	4.005	0.085	0.041	0.034	-0.025	11111	1.63	38887.8736	3
6027	4.016	0.115	0.052	0.037	-0.016	11111	1.62	38925.7586	3
6031	4.942	0.056	0.057	0.006	0.091	11111	1.36	38888.8437	3
6031	4.954	0.081	0.046	0.008	0.103	11111	1.36	38925.7688	3
6056	3.131	1.221	0.779	0.667	2.361	11111	1.24	38888.8554	3
6056	3.133	1.242	0.766	0.674	2.348	11111	1.25	38925.7794	3
6075	3.432	0.705	0.442	0.434	1.260	11111	1.25	38888.8668	3
6075	3.474	0.749	0.452	0.429	1.259	11111	1.26	38926.7392	3
6092	3.876	-0.065	-0.060	-0.072	-0.221	11111	1.03	38839.9855	3
6092	3.890	-0.072	-0.054	-0.077	-0.203	11111	1.04	38865.8980	1
6092	3.899	-0.082	-0.052	-0.089	-0.221	11111	1.16	38873.0002	3
6092	3.861	-0.103	-0.064	-0.071	-0.194	11111	1.04	38898.8572	3
6092	3.898	-0.086	-0.049	-0.089	-0.205	11111	1.07	38915.7316	3
6092	3.890	-0.084	-0.058	-0.059	-0.210	11111	2.03	38921.9903	3
6092	3.847	-0.093	-0.065	-0.074	-0.214	11111	1.03	38928.7358	3
6092	3.900	-0.076	-0.058	-0.075	-0.199	11111	1.04	38929.7202	3
6092	3.877	-0.073	-0.055	-0.079	-0.211	11111	2.42	39016.7529	3
6092	3.872	-0.102	-0.052	-0.060	-0.211	11111	2.19	39018.7357	3
6092	3.882	-0.083	-0.062	-0.082	-0.198	11111	2.57	39025.7352	3
6092	3.873	-0.107	-0.091	-0.053	-0.180	11111	2.18	39026.7129	3
6092	3.885	-0.097	-0.065	-0.061	-0.197	11111	2.14	39028.7053	3
6092	3.899	-0.083	-0.052	-0.082	-0.204	11111	1.95	39176.8546	3
6092	3.897	-0.077	-0.052	-0.084	-0.204	11111	1.05	39177.0309	3
6092	3.876	-0.082	-0.034	-0.075	-0.220	11111	1.14	39184.9583	1
6092	3.890	-0.072	-0.056	-0.074	-0.192	11111	1.98	39197.7956	3
6092	3.937	-0.088	-0.040	-0.099	-0.246	11111	1.03	39198.0147	3
6092	3.874	-0.074	-0.051	-0.057	-0.187	11111	1.94	39199.7927	3
6092	3.871	-0.065	-0.049	-0.081	-0.212	11111	1.03	39200.0158	3
6092	3.895	-0.060	-0.036	-0.075	-0.215	11111	1.04	39202.0268	1
6092	3.886	-0.086	-0.057	-0.076	-0.198	11111	2.20	39206.7564	3
6092	3.895	-0.097	-0.062	-0.074	-0.185	11111	1.10	39229.8532	3
6092	3.951	-0.086	-0.052	-0.079	-0.208	11111	1.05	39231.9635	1
6092	3.912	-0.057	-0.035	-0.081	-0.220	11111	1.07	39238.8475	1
6092	3.860	-0.091	-0.066	-0.075	-0.216	11111	1.03	39279.7984	3
6092	3.857	-0.102	-0.068	-0.076	-0.200	11111	1.04	39298.7588	1
6092	3.895	-0.086	-0.053	-0.075	-0.214	11111	1.03	39300.7342	3
6092	3.866	-0.100	-0.050	-0.074	-0.200	11111	2.16	39300.9610	3
6092	3.837	-0.119	-0.071	-0.075	-0.198	11111	1.03	39313.6800	1
6092	3.862	-0.097	-0.073	-0.072	-0.199	11111	1.04	39318.7023	1
6093	4.893	0.309	0.196	0.137	0.374	11111	1.17	38865.9084	1
6093	4.905	0.293	0.171	0.155	0.382	11111	1.17	38926.7506	3
6095	3.820	0.232	0.155	0.087	0.290	11111	1.03	38889.8632	3
6095	3.829	0.243	0.150	0.103	0.315	11111	1.03	38926.7606	3
6103	5.085	0.722	0.470	0.415	1.286	11111	1.01	38865.9009	1
6103	5.066	0.722	0.449	0.411	1.276	11111	1.00	38928.7469	3
6104	4.724	0.756	0.486	0.446	1.342	11111	1.65	38889.8755	3
6104	4.714	0.761	0.466	0.438	1.332	11111	1.63	38928.7568	3

TABLE 8 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 52

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
6117	4.598	0.033	0.028	-0.033	-0.028	11111	1.06	38889.8857	3
6117	4.634	0.061	0.031	-0.055	-0.033	11111	1.06	38928.7687	3
6118	4.593	0.361	0.156	0.173	0.162	11111	1.59	38890.8457	3
6118	4.563	0.355	0.126	0.168	0.164	11111	1.59	38929.7323	3
6129	4.659	0.126	0.102	0.053	0.204	11111	1.32	38890.8569	3
6129	4.666	0.132	0.083	0.054	0.222	11111	1.32	38929.7419	3
6132	2.922	0.677	0.397	0.410	1.186	11111	1.41	38877.7441	3
6132	2.953	0.698	0.416	0.399	1.159	11111	1.15	38929.7537	3
6132	2.937	0.700	0.428	0.413	1.174	11111	1.15	39257.8739	3
6146	5.414	1.519	0.454	1.177	1.524	11111	1.01	38865.9266	1
6146	5.294	1.524	0.468	1.162	1.572	11111	1.02	38929.7653	3
6146	5.085	1.498	0.483	1.124	1.620	11111	1.02	39241.8775	3
6146	5.086	1.531	0.513	1.125	1.664	11111	1.05	39295.6988	1
6146	5.057	1.491	0.478	1.158	1.643	11111	1.03	39297.7128	3
6146	5.076	1.515	0.490	1.130	1.625	11111	1.03	39300.7074	3
6147	4.451	0.651	0.412	0.408	1.198	11111	1.52	38894.8416	3
6147	4.461	0.689	0.405	0.415	1.220	11111	1.52	39200.0054	3
6148	2.980	0.666	0.393	0.434	1.234	11111	1.42	38877.7579	3
6148	2.991	0.677	0.419	0.420	1.199	11111	1.02	39201.9900	1
6149	3.810	0.020	0.013	-0.024	0.019	11111	1.16	38894.8538	3
6149	3.813	0.039	0.023	0.001	0.043	11111	1.16	39227.9372	3
6159	5.229	1.213	0.768	0.586	2.174	11111	1.07	38872.9091	3
6159	5.254	1.205	0.773	0.589	2.171	11111	1.07	39227.9485	3
6159	5.243	1.188	0.766	0.593	2.186	11111	1.07	39241.9027	3
6161	4.953	-0.041	-0.022	-0.046	-0.092	11111	1.25	38894.8669	3
6161	4.947	-0.004	-0.005	-0.044	-0.069	11111	1.24	39201.9994	1
6161	4.962	-0.036	-0.009	-0.049	-0.104	11111	1.24	39241.9135	3
6168	4.210	0.002	-0.019	-0.011	-0.032	11111	1.04	38917.7452	3
6168	4.219	0.002	0.017	-0.015	-0.054	11111	1.02	39202.0179	1
6175	2.580	0.057	0.017	0.048	-0.045	11111	1.40	38917.7567	3
6175	2.575	0.078	0.022	0.039	-0.070	11111	1.37	39227.9586	3
6212	2.885	0.504	0.300	0.275	0.801	11111	1.00	38870.9227	1
6212	2.963	0.531	0.332	0.252	0.727	11111	1.00	39228.9267	1
6212	2.936	0.523	0.322	0.255	0.756	11111	1.00	39251.8861	1
6212	2.940	0.574	0.382	0.276	0.767	11111	1.03	39252.9257	1
6220	3.704	0.688	0.408	0.396	1.150	11111	1.01	38872.9225	3
6220	3.726	0.692	0.410	0.410	1.157	11111	1.01	39231.9431	1
6237	4.943	0.337	0.197	0.175	0.408	11111	1.11	38917.7698	3
6237	5.031	0.315	0.177	0.182	0.410	11111	1.10	39231.9531	1
6243	4.737	0.392	0.223	0.216	0.555	11111	1.38	38917.7800	3
6243	4.806	0.405	0.246	0.206	0.552	11111	1.42	39238.8823	1
6254	4.862	0.087	0.068	-0.007	0.092	11111	1.03	38917.7907	3
6254	4.869	0.075	0.038	-0.009	0.118	11111	1.04	39238.8930	1
6281	4.371	-0.055	-0.031	-0.045	-0.136	11111	1.10	38918.7681	3
6281	4.357	-0.059	-0.037	-0.055	-0.159	11111	1.10	39240.8874	3
6299	3.505	0.890	0.569	0.475	1.604	11111	1.10	38918.7774	3
6299	3.474	0.868	0.543	0.485	1.574	11111	1.10	39240.8970	3
6299	3.480	0.852	0.551	0.452	1.572	11111	1.11	39241.8876	3
6299	3.471	0.872	0.553	0.477	1.605	11111	1.10	39296.7422	3
6299	3.492	0.857	0.556	0.473	1.606	11111	1.13	39298.7145	1
6299	3.482	0.879	0.561	0.478	1.582	11111	1.12	39300.7194	3
6315	5.024	0.441	0.262	0.234	0.561	11111	1.19	38918.7899	3
6315	4.985	0.401	0.233	0.230	0.541	11111	1.19	39240.9183	3
6322	4.405	0.670	0.413	0.410	1.131	11111	1.55	38918.7566	3
6322	4.401	0.677	0.396	0.424	1.143	11111	1.55	39240.9413	3
6324	3.950	0.012	0.002	-0.032	-0.031	11111	1.00	38918.8034	3
6324	3.906	-0.004	0.008	-0.039	-0.054	11111	1.01	39240.9516	3
6337	5.400	1.284	0.729	0.722	2.330	11111	1.05	38874.9345	3
6337	5.391	1.274	0.723	0.000	0.000	11100	1.62	38923.9423	1
6337	5.374	1.253	0.717	0.712	2.364	11111	1.06	39227.9807	3
6355	4.928	0.100	0.063	0.028	0.151	11111	1.07	38874.9470	3
6355	4.931	0.097	0.054	0.025	0.159	11111	1.06	38924.7801	3
6378	2.467	0.053	0.027	0.036	0.076	11111	1.50	38869.9394	1
6378	2.446	0.045	0.038	0.019	0.069	11111	1.50	38926.7743	3
6396	3.170	-0.033	-0.018	-0.066	-0.174	11111	1.20	38865.9356	1
6396	0.000	-0.060	-0.037	0.000	0.000	01100	1.20	38933.7786	3
6396	3.167	-0.020	-0.035	-0.079	-0.181	11111	1.20	39227.9908	3
6406	3.546	1.394	0.442	0.986	1.481	11111	1.06	38874.9606	3
6406	3.373	1.386	0.475	0.964	1.550	11111	1.05	39228.9692	1
6410	3.148	0.072	0.047	0.016	0.085	11111	1.01	38875.9383	1
6410	3.163	0.091	0.072	0.007	0.078	11111	1.01	39228.9801	1
6415	5.005	0.873	0.575	0.469	1.554	11111	1.18	38888.9116	3
6415	5.052	0.867	0.560	0.478	1.586	11111	1.43	39014.6497	1
6418	3.529	1.088	0.704	0.604	2.089	11111	1.01	38865.9439	1
6418	3.530	1.089	0.697	0.600	2.096	11111	1.06	39270.7874	3
6431	5.079	-0.087	-0.040	-0.058	-0.250	11111	1.01	38869.9252	1
6431	4.996	-0.127	-0.065	-0.073	-0.272	11111	1.01	39231.9803	1
6431	4.959	-0.102	-0.085	-0.068	-0.212	11111	1.01	39296.7544	3
6431	5.304	-0.097	-0.066	-0.072	-0.215	11111	1.04	39298.7254	1
6436	4.549	0.055	0.030	-0.008	0.040	11111	1.00	38870.9488	1
6436	4.632	0.006	0.015	-0.021	0.016	11111	1.01	39241.9484	3
6446	4.334	0.006	0.015	-0.010	0.013	11111	1.43	38890.8811	3
6446	4.374	0.018	0.012	0.035	0.177	11111	1.87	39014.6610	1
6446	4.343	0.020	0.021	0.003	0.028	11111	1.44	39241.9587	3
6484	4.174	0.011	0.010	-0.034	-0.060	11111	1.34	38877.7921	3
6484	4.163	0.019	0.002	-0.024	-0.050	11111	1.00	39258.8911	3
6493	4.576	0.299	0.168	0.197	0.422	11111	1.26	38890.8932	3
6493	4.606	0.331	0.191	0.186	0.419	11111	1.27	39258.9117	3
6498	4.706	1.117	0.708	0.688	2.167	11111	1.15	38890.9251	3
6498	4.721	1.134	0.724	0.682	2.174	11111	1.15	39258.9212	3
6526	4.787	1.098	0.708	0.593	2.079	11111	1.01	38872.9572	3
6526	4.786	1.098	0.697	0.596	2.113	11111	1.20	39268.7628	3
6536	3.020	0.717	0.441	0.448	1.241	11111	1.29	38877.8068	3
6536	3.018	0.726	0.451	0.453	1.220	11111	1.18	39268.7732	3
6554	4.969	0.203	0.122	0.105	0.282	11111	1.23	38877.8298	3
6554	4.942	0.211	0.109	0.101	0.297	11111	1.17	39268.7843	3
6555	4.934	0.218	0.132	0.115	0.350	11111	1.19	38877.8448	3
6555	4.938	0.225	0.128	0.118	0.360	11111	1.15	39268.7945	3
6556	2.124	0.113	0.074	0.048	0.180	11111	1.06	38894.8958	3
6556	2.114	0.124	0.069	0.047	0.201	11111	1.15	39268.8051	3
6561	3.583	0.209	0.131	0.091	0.305	11111	1.49	38894.9076	3
6561	3.607	0.207	0.158	0.091	0.318	11111	1.49	39268.8694	3
6567	4.637	0.139	0.084	0.071	0.082	11111	1.33	38894.9209	3
6567	4.655	0.161	0.073	0.079	0.085	11111	1.32	39269.8583	3
6581	4.254	0.049	0.034	0.023	0.098	11111	1.42	38898.8923	3
6581	4.259	0.056	0.025	0.020	0.094	11111	1.42	39269.8684	3
6588	3.804	-0.099	-0.063	-0.083	-0.248	11111	1.03	38898.8801	3
6588	3.756	-0.110	-0.088	-0.072	-0.241	11111	1.18	39269.7669	3
6596	4.887	0.370	0.218	0.199	0.492	11111	1.24	38898.8696	3
6596	4.872	0.362	0.218	0.212	0.498	11111	1.24	39257.9181	3
6603	3.064	0.879	0.570	0.492	1.628	11111	2.28	38839.8785	3
6603	3.063	0.889	0.571	0.490	1.642	11111	1.18	38875.0042	3
6603	3.057	0.879	0.573	0.473	1.629	11111	1.13	38875.9615	1
6603	3.066	0.880	0.570	0.475	1.632	11111	2.33	38877.7728	3
6603	3.066	0.886	0.573	0.478	1.628	11111	1.17	38877.9892	3
6603	3.047	0.876	0.566	0.480	1.628	11111	1.24	38887.9893	3
6603	3.039	0.866	0.564	0.484	1.630	11111	1.18	38888.9638	3
6603	3.079	0.892	0.574	0.480	1.632	11111	1.22	38889.9780	3
6603	3.061	0.876	0.569	0.481	1.625	11111	1.28	38890.9902	3
6603	3.049	0.875	0.568	0.478	1.621	11111	2.09	38894.7373	3
6603	3.064	0.874	0.569	0.473	1.624	11111	1.15	38894.9322	3
6603	3.049	0.870	0.576	0.484	1.626	11111	2.41	38896.7181	3
6603	3.044	0.871	0.565	0.476	1.618	11111	1.17	38896.8522	3
6603	3.050	0.876	0.575	0.486	1.615	11111	1.16	38896.9322	3
6603	3.050	0.873	0.580	0.483	1.644	11111	2.41	38898.7127	3
6603	3.065	0.876	0.562	0.483	1.638	11111	1.14	38898.9052	3
6603	3.059	0.876	0.545	0.474	1.637	11111	1.13	38921.8165	3
6603	3.063	0.897	0.575	0.478	1.643	11111	1.14	38922.8471	1
6603	3.025	0.862	0.561	0.476	1.646	11111	1.18	39014.6185	1
6603	3.032	0.871	0.556	0.481	1.639	11111	1.25	39016.6404	3
6603	3.014	0.857	0.544	0.480	1.637	11111	1.21	39018.6196	3
6603	3.001	0.833	0.531	0.499	1.650	11111	1.64	39019.6916	3
6603	3.043	0.884	0.580	0.459	1.628	11111	2.15	39024.7118	3
6603	3.162	0.887	0.546	0.551	1.254	11111	4.35	39024.7589	3
6603	3.024	0.848	0.551	0.483	1.638	11111	1.20	39025.5993	3
6603	3.042	0.869	0.551	0.475	1.630	11111	1.21	39026.6007	3
6603	3.050	0.880	0.569	0.476	1.625	11111	1.23	39027.6022	3
6603	2.978	0.839	0.532	0.460	1.605	11111	1.20	39028.5919	3
6603	3.013	0.846	0.541	0.481	1.609	11111	1.26	39029.6074	3
6603	3.001	0.850	0.555	0.457	1.589	11111	2.12	39029.6968	3
6603	3.043	0.882	0.563	0.480	1.617	11111	2.61	39045.6718	3
6603	3.034	0.854	0.561	0.474	1.631	11111	1.40	39046.5882	1
6603	3.045	0.865	0.562	0.480	1.622	11111	2.63	39051.6562	3
6603	3.057	0.864	0.572	0.468	1.605	11111	1.53	39052.5899	3
6603	3.038	0.864	0.554	0.486	1.636	11111	2.58	39052.6519	3
6603	3.086	0.943	0.546	0.432	1.585	11111	2.76	39059.6379	3
6603	3.054	0.882	0.567	0.471	1.632	11111	2.35	39172.9638	3
6603	3.035	0.888	0.562	0.467	1.623	11111	2.08	39227.8259	3
6603	3.042	0.882	0.551	0.485	1.626	11111	1.13	39228.0008	3
6603	3.064	0.874	0.565	0.479	1.625	11111	1.14	39229.0005	1
6603	3.074	0.874	0.572	0.481	1.616	11111	1.15	39232.0050	1
6603	3.050	0.860	0.556	0.481	1.637	11111	2.38	39240.7772	3
6603	3.036	0.875	0.551	0.476	1.612	11111	1.17	39240.9968	3
6603	3.087	0.885	0.597	0.482	1.628	11111	1.18	39241.9993	3
6603	3.062	0.840	0.529	0.478	1.630	11111	2.29	39243.7726	3
6603	3.020	0.860	0.501	0.481	1.653	11111	1.57	39251.7978	1
6603	3.060	0.893	0.528	0.453	1.600	11111	1.19	39251.8730	1
6603	3.080	0.907	0.619	0.438	1.574	11111	1.16	39251.9601	1
6603	3.036	0.875	0.542	0.480	1.622	11111	2.34	39257.7324	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
6603	3.054	0.885	0.568	0.479	1.632	11111	1.25	39257.9792	3
6603	3.039	0.835	0.570	0.477	1.616	11111	2.36	39258.7286	3
6603	3.063	0.882	0.561	0.485	1.644	11111	1.28	39258.9841	3
6603	3.056	0.878	0.573	0.471	1.624	11111	2.04	39268.7159	3
6603	3.047	0.884	0.574	0.496	1.642	11111	1.26	39268.9501	3
6603	3.036	0.861	0.548	0.485	1.655	11111	2.16	39269.7071	3
6603	3.065	0.899	0.574	0.466	1.616	11111	1.15	39269.9002	3
6603	3.046	0.881	0.566	0.467	1.619	11111	2.01	39274.7015	3
6603	3.050	0.873	0.561	0.477	1.646	11111	1.13	39278.8416	1
6603	3.064	0.890	0.573	0.483	1.636	11111	1.19	39298.8476	1
6603	3.039	0.887	0.579	0.473	1.613	11111	1.13	39306.7611	1
6603	3.036	0.868	0.570	0.469	1.619	11111	1.20	39313.6968	1
6603	3.050	0.895	0.579	0.469	1.613	11111	1.20	39318.7967	1
6603	3.057	0.864	0.574	0.474	1.616	11111	1.13	39372.6010	3
6603	3.065	0.867	0.561	0.463	1.616	11111	2.16	39372.7595	3
6603	3.096	0.896	0.577	0.491	1.658	11111	1.14	39373.6050	1
6603	3.052	0.880	0.582	0.494	1.638	11111	1.14	39376.5968	3
6603	3.030	0.874	0.559	0.487	1.634	11111	2.10	39376.7454	3
6603	3.040	0.865	0.577	0.472	1.634	11111	1.14	39377.5975	1
6603	3.028	0.873	0.557	0.468	1.627	11111	1.31	39407.5827	1
6603	3.059	0.889	0.566	0.506	1.661	11111	1.32	39408.5827	3
6603	3.030	0.844	0.550	0.478	1.615	11111	1.30	39410.5725	3
6623	3.622	0.579	0.361	0.291	0.885	11111	1.23	38919.7216	1
6623	3.581	0.578	0.345	0.321	0.922	11111	1.16	39269.7791	3
6629	3.755	-0.011	-0.010	-0.009	0.050	11111	2.23	38839.8874	3
6629	3.756	0.009	0.003	-0.008	0.054	11111	1.17	38877.9774	3
6629	3.731	0.025	0.010	-0.023	0.039	11111	1.29	38887.9977	3
6629	3.743	0.017	0.003	-0.007	0.039	11111	1.26	38888.9864	3
6629	3.764	0.020	0.008	-0.008	0.046	11111	1.27	38889.9888	3
6629	3.748	0.026	0.010	-0.031	0.038	11111	1.15	38890.9144	3
6629	3.733	0.000	-0.013	-0.010	0.064	11111	1.98	38894.7502	3
6629	3.739	0.018	-0.002	-0.005	0.041	11111	1.19	38894.9424	3
6629	0.000	0.000	-0.021	-0.021	0.049	00111	2.10	38896.7378	3
6629	3.734	-0.011	-0.007	-0.003	0.061	11111	1.15	38896.8848	3
6629	3.738	0.005	-0.012	0.003	0.061	11111	2.28	38898.7240	3
6629	3.754	0.019	-0.007	0.008	0.069	11111	1.15	38921.8270	3
6629	3.762	0.024	0.008	-0.005	0.059	11111	1.17	38922.8561	1
6629	3.756	0.012	-0.002	-0.011	0.028	11111	1.22	39014.6306	1
6629	3.749	0.002	0.003	-0.026	0.033	11111	1.30	39016.6494	3
6629	3.720	-0.025	-0.012	-0.009	0.070	11111	1.26	39018.6316	3
6629	3.771	0.039	0.053	-0.088	-0.030	11111	1.69	39019.6889	3
6629	3.737	-0.007	-0.015	0.001	0.045	11111	2.41	39024.7221	3
6629	3.771	0.005	-0.010	-0.007	0.318	11111	4.88	39024.7643	3
6629	3.724	-0.019	-0.027	-0.009	0.054	11111	1.25	39025.6101	3
6629	3.721	-0.010	-0.003	-0.016	0.047	11111	1.26	39026.6115	3
6629	3.731	-0.006	-0.011	-0.010	0.049	11111	1.27	39027.6111	3
6629	3.686	-0.037	-0.027	-0.007	0.028	11111	1.25	39028.6017	3
6629	3.693	-0.017	-0.018	-0.016	0.032	11111	1.32	39029.6175	3
6629	3.696	-0.033	-0.032	-0.017	0.039	11111	2.40	39029.7082	3
6629	3.736	-0.009	-0.015	-0.013	0.049	11111	2.92	39045.6799	3
6629	3.731	-0.020	-0.015	-0.009	0.059	11111	1.47	39046.5972	1
6629	3.710	0.002	-0.009	-0.014	0.037	11111	3.03	39051.6661	3
6629	3.741	-0.007	0.001	-0.013	0.046	11111	1.64	39052.5998	3
6629	3.743	0.016	0.008	-0.016	0.052	11111	2.91	39052.6606	3
6629	3.703	-0.056	0.010	0.024	0.081	11111	3.15	39059.6468	3
6629	3.743	0.015	0.020	-0.010	0.062	11111	2.28	39172.9734	3
6629	3.743	0.021	-0.001	-0.016	0.036	11111	1.99	39227.8373	3
6629	3.717	0.018	-0.001	-0.008	0.056	11111	1.16	39228.0098	3
6629	3.746	0.005	0.018	0.008	0.075	11111	1.16	39229.0094	1
6629	3.778	0.014	0.014	-0.013	0.027	11111	1.17	39232.0134	1
6629	3.732	-0.013	-0.008	-0.007	0.063	11111	2.29	39240.7874	3
6629	3.740	0.008	-0.003	-0.025	0.039	11111	1.21	39241.0047	3
6629	3.767	0.038	0.022	-0.013	0.042	11111	1.22	39242.0077	3
6629	3.730	-0.021	-0.027	0.036	0.082	11111	1.79	39251.7856	1
6629	3.740	-0.001	0.017	0.004	0.145	11111	1.25	39251.8602	1
6629	3.752	-0.001	0.035	-0.005	-0.012	11111	1.16	39251.9475	1
6629	3.730	0.008	0.051	-0.018	0.032	11111	1.21	39252.9756	1
6629	3.720	-0.017	-0.008	-0.008	0.061	11111	2.24	39257.7429	3
6629	3.744	-0.003	0.001	-0.005	0.041	11111	1.30	39257.9873	3
6629	3.738	0.003	-0.003	-0.009	0.061	11111	2.29	39258.7380	3
6629	3.761	0.026	0.001	-0.014	0.053	11111	1.33	39258.9922	3
6629	3.730	-0.002	-0.041	0.001	0.044	11111	1.98	39268.7263	3
6629	3.753	0.035	0.016	-0.020	0.045	11111	1.31	39268.9602	3
6629	3.723	-0.008	-0.013	-0.007	0.046	11111	2.10	39269.7169	3
6629	3.760	0.023	0.008	-0.020	0.034	11111	1.18	39269.9099	3
6629	3.733	-0.010	-0.007	0.000	0.054	11111	1.96	39274.7107	3
6629	3.755	0.032	0.004	-0.012	0.037	11111	1.15	39278.8510	1
6629	3.752	0.004	0.007	0.007	0.049	11111	1.23	39298.8574	1
6629	3.716	-0.010	-0.014	-0.009	0.030	11111	1.15	39306.7727	1
6629	3.719	-0.009	-0.022	-0.005	0.044	11111	1.19	39313.7164	1
6629	3.742	-0.010	-0.016	-0.008	0.040	11111	1.19	39318.7855	1
6629	3.742	-0.005	-0.005	-0.009	0.053	11111	1.16	39372.6101	3
6629	0.000	0.000	0.018	-0.004	0.057	00111	2.40	39372.7687	3
6629	3.786	0.024	0.006	-0.005	0.084	11111	1.16	39373.6162	1
6629	3.729	-0.003	0.002	-0.015	0.042	11111	1.16	39376.6086	3
6629	3.748	0.001	-0.002	-0.022	0.041	11111	2.32	39376.7547	3
6629	3.735	-0.003	-0.015	-0.017	0.056	11111	1.17	39377.6082	1
6629	3.727	-0.014	-0.013	-0.006	0.045	11111	1.38	39407.5946	1
6629	3.773	0.000	-0.006	0.012	0.085	11111	1.39	39408.5929	3
6629	3.724	-0.032	-0.034	-0.012	0.060	11111	1.36	39410.5824	3
6629	3.722	-0.023	-0.003	0.000	0.042	11101	1.33	39411.5744	1
6636	4.677	0.379	0.218	0.192	0.457	11111	1.53	38919.6767	1
6636	4.688	0.377	0.245	0.179	0.480	11111	1.30	39257.9080	3
6685	5.501	0.296	0.172	0.187	0.387	11111	1.11	38921.7564	3
6685	5.571	0.323	0.162	0.198	0.391	11111	1.15	39269.7909	3
6688	4.041	0.900	0.580	0.462	1.601	11111	1.39	38919.6892	1
6688	4.030	0.903	0.572	0.488	1.629	11111	1.17	39269.8005	3
6695	4.173	0.934	0.609	0.611	1.936	11111	1.28	38919.7100	1
6695	4.168	0.955	0.607	0.615	1.963	11111	1.03	39270.8332	3
6698	3.550	0.737	0.453	0.430	1.330	11111	1.35	38921.8474	3
6698	3.536	0.729	0.443	0.439	1.354	11111	1.39	39270.8438	3
6703	3.946	0.710	0.439	0.399	1.198	11111	1.00	38872.9693	3
6703	3.922	0.714	0.433	0.417	1.223	11111	1.00	39270.8769	3
6705	2.653	1.193	0.762	0.607	2.246	11111	1.34	38919.6993	1
6705	2.652	1.217	0.774	0.623	2.266	11111	1.06	39270.8868	3
6707	4.535	0.355	0.206	0.164	0.378	11111	1.00	38872.9856	3
6707	4.477	0.357	0.186	0.171	0.419	11111	1.20	39272.7680	3
6710	4.699	0.339	0.189	0.179	0.434	11111	1.25	38921.8593	3
6710	4.719	0.344	0.209	0.165	0.422	11111	1.33	39280.7966	3
6712	4.582	0.103	0.024	0.009	-0.097	11111	1.21	38921.7804	3
6712	4.593	0.130	0.027	-0.013	-0.103	11111	1.30	39272.7929	3
6713	4.940	0.877	0.561	0.566	1.738	11111	1.13	38921.7675	3
6713	4.939	0.904	0.561	0.571	1.742	11111	1.22	39272.7826	3
6714	3.992	0.077	0.046	0.053	-0.041	11111	1.20	38921.7923	3
6714	3.988	0.087	0.038	0.046	-0.038	11111	1.21	39280.8060	3
6723	4.466	0.063	0.040	-0.003	0.012	11111	1.17	38921.8371	3
6723	4.472	0.053	0.038	0.000	0.021	11111	1.17	39280.8661	3
6752	4.265	0.754	0.478	0.316	1.068	11111	1.31	38877.8829	3
6752	4.262	0.745	0.471	0.322	1.064	11111	1.15	38929.8205	3
6752	4.242	0.727	0.458	0.340	1.080	11111	1.15	39240.9771	3
6770	4.853	0.696	0.422	0.442	1.273	11111	1.17	38877.9006	3
6770	4.852	0.686	0.426	0.450	1.269	11111	1.09	38929.8301	3
6771	3.779	0.122	0.080	0.015	0.139	11111	1.13	38877.9157	3
6771	3.765	0.095	0.055	0.020	0.162	11111	1.09	38929.8385	3
6779	3.834	-0.006	-0.011	-0.006	-0.038	11111	1.00	38877.9508	3
6779	3.781	-0.035	-0.040	-0.024	-0.053	11111	1.35	39019.7129	3
6787	4.333	-0.102	-0.075	-0.066	-0.249	11111	1.02	38877.9640	3
6787	4.353	-0.108	-0.066	-0.058	-0.239	11111	1.02	39231.9944	1
6789	4.396	0.006	0.012	-0.023	0.017	11111	1.71	38921.8727	3
6789	4.369	0.001	0.021	-0.007	0.010	11111	1.71	39257.8963	3
6866	5.040	0.657	0.399	0.420	1.183	11111	1.16	38887.9208	3
6866	5.050	0.657	0.396	0.406	1.182	11111	1.14	39241.9702	3
6868	5.316	1.278	0.776	0.676	2.393	11111	1.02	38887.9316	3
6868	5.379	1.281	0.818	0.663	2.397	11111	1.02	39241.9805	3
6869	3.452	0.743	0.464	0.408	1.192	11111	2.31	38704.6064	3
6869	3.453	0.727	0.444	0.404	1.190	11111	2.95	38865.8274	1
6869	3.468	0.745	0.455	0.393	1.210	11111	1.30	38865.9524	1
6872	4.615	0.871	0.542	0.496	1.638	11111	1.00	38887.9428	3
6872	4.628	0.865	0.543	0.483	1.637	11111	1.00	39241.9901	3
6884	4.851	0.694	0.432	0.428	1.220	11111	1.34	38888.9276	3
6884	4.880	0.702	0.453	0.420	1.234	11111	1.34	39257.9489	3
6895	4.127	0.898	0.572	0.486	1.590	11111	1.02	38888.9391	3
6895	4.147	0.918	0.593	0.489	1.607	11111	1.03	39257.9605	3
6896	5.102	1.053	0.653	0.623	1.638	11111	1.66	38888.9515	3
6896	5.157	1.095	0.681	0.630	1.652	11111	1.67	39268.8842	3
6918	5.324	0.460	0.268	0.234	0.537	11111	1.19	38889.9325	3
6918	5.341	0.476	0.301	0.222	0.530	11111	1.19	39268.8951	3
6918	5.318	0.456	0.271	0.220	0.526	11111	1.26	39298.7689	1
6918	5.302	0.453	0.273	0.214	0.532	11111	1.18	39376.6183	3
6920	4.236	-0.025	-0.035	-0.065	-0.117	11111	1.29	38889.9519	3
6920	4.219	-0.024	-0.021	-0.055	-0.106	11111	1.28	39258.9325	3
6923	5.003	0.062	0.031	0.016	0.083	11111	1.12	38889.9653	3
6923	5.001	0.068	0.041	0.021	0.102	11111	1.12	39268.9056	3
6927	3.684	0.430	0.249	0.238	0.562	11111	1.31	38890.9373	3
6927	3.677	0.452	0.236	0.238	0.544	11111	1.31	39258.9410	3
6930	4.687	0.071	0.046	0.021	0.045	11111	1.47	38890.9472	3
6930	4.711	0.076	0.045	0.003	0.047	11111	1.47	39268.9186	3
6945	5.102	0.898	0.555	0.498	1.605	11111	1.20	38890.9579	3
6945	5.103	0.919	0.551	0.516	1.591	11111	1.20	39258.9587	3
6973	4.201	1.030	0.661	0.536	1.891	11111	1.35	38896.8965	3
6973	4.201	1.043	0.693	0.540	1.902	11111	1.32	39268.9287	3
6978	4.910	0.476	0.299	0.272	0.747	11111	1.10	38896.9078	3
6978	4.921	0.509	0.308	0.296	0.746	11111	1.11	39268.9397	3
7001	0.069	0.013	0.031	-0.018	-0.001	11111	1.04	38869.9563	1
7001	-0.019	-0.056	-0.041	-0.021	-0.013	11111	1.26	39019.7230	3
7001	0.028	-0.027	-0.024	-0.027	0.026	11111	1.14	39298.7376	1
7001	0.030	-0.028	-0.007	-0.023	0.045	11111	1.01	39377.6409	1

TABLE 8 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 52

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
7020	4.760	0.282	0.176	0.145	0.408	11111	1.34	38896.9193	3
7020	4.823	0.310	0.192	0.153	0.452	11111	1.37	39269.8799	3
7056	4.402	0.183	0.106	0.053	0.252	11111	1.03	38869.9721	1
7056	4.390	0.155	0.083	0.048	0.222	11111	1.01	39269.8906	3
7056	4.392	0.161	0.100	0.044	0.237	11111	1.08	39300.7574	3
7061	4.285	0.365	0.216	0.215	0.524	11111	1.05	38916.8458	3
7061	4.298	0.379	0.208	0.213	0.517	11111	1.02	39269.9194	3
7063	4.461	0.815	0.521	0.514	1.433	11111	1.28	38916.8558	3
7063	4.474	0.841	0.515	0.532	1.418	11111	1.26	39270.8990	3
7064	5.149	0.899	0.580	0.489	1.654	11111	1.01	38916.8697	3
7064	5.128	0.936	0.589	0.499	1.653	11111	1.01	39270.9100	3
7066	5.479	1.056	0.651	0.671	1.740	11111	1.34	38917.8321	3
7066	5.788	1.150	0.717	0.760	2.094	11111	1.31	39272.8721	3
7066	6.449	0.933	0.416	0.740	1.672	11111	1.35	39298.7861	1
7066	5.469	0.914	0.548	0.591	1.439	11111	1.27	39376.6294	3
7069	4.348	0.056	0.029	0.018	0.196	11111	1.06	38917.8429	3
7069	4.373	0.101	0.050	0.022	0.175	11111	1.04	39272.8838	3
7106	3.408	0.106	0.052	0.007	-0.078	11111	1.01	38917.8555	3
7106	3.389	0.119	0.041	0.013	-0.076	11111	1.00	39240.9878	3
7106	3.395	0.106	0.059	0.024	-0.068	11111	1.20	39297.7313	3
7106	3.563	0.132	0.066	0.012	-0.053	11111	1.12	39300.7465	3
7106	3.496	0.092	0.039	0.002	-0.076	11111	1.07	39407.6103	1
7106	3.420	0.093	0.051	0.018	-0.057	11111	1.06	39408.6044	3
7125	5.005	0.945	0.577	0.523	1.629	11111	1.13	38918.8574	3
7125	4.919	0.910	0.548	0.536	1.590	11111	1.12	39272.8973	3
7133	4.800	0.666	0.401	0.364	0.951	11111	1.02	38918.8698	3
7133	4.772	0.659	0.383	0.375	0.961	11111	1.02	39272.9079	3
7137	5.109	0.680	0.417	0.397	1.140	11111	1.05	38922.8693	1
7137	5.138	0.703	0.403	0.409	1.159	11111	1.06	39272.9294	3
7139	4.432	1.302	0.626	0.904	2.261	11111	1.00	38922.8811	1
7139	4.551	1.293	0.604	0.889	2.136	11111	1.03	39279.8500	3
7141	4.661	0.136	0.087	0.029	0.186	11111	1.16	38922.9051	1
7141	4.666	0.135	0.085	0.037	0.175	11111	1.17	39279.8596	3
7157	4.518	1.361	0.475	1.018	1.851	11111	1.02	38922.8920	1
7157	4.439	1.369	0.481	1.039	1.893	11111	1.02	39280.8769	3
7157	4.381	1.350	0.473	1.022	1.888	11111	1.18	39297.7419	3
7176	4.301	0.817	0.499	0.440	1.463	11111	1.05	38924.8614	3
7176	4.306	0.828	0.508	0.461	1.462	11111	1.05	39280.8862	3
7178	3.221	0.002	-0.021	-0.020	-0.071	11111	2.27	38865.8166	1
7178	3.255	0.028	0.018	-0.022	-0.080	11111	1.07	38865.9616	1
7178	3.300	0.072	0.004	-0.049	-0.112	11111	1.27	38869.8946	1
7178	3.230	0.030	0.017	-0.007	-0.067	11111	1.02	38869.9888	1
7178	3.124	-0.014	-0.050	0.011	-0.070	11111	1.10	38870.9363	1
7178	3.198	0.001	-0.034	0.002	-0.056	11111	1.02	38870.9782	1
7178	3.191	0.011	-0.009	-0.012	-0.073	11111	1.13	38871.9253	1
7180	5.099	0.874	0.545	0.496	1.575	11111	1.29	38924.8509	3
7180	5.086	0.861	0.522	0.505	1.588	11111	1.28	39258.9499	3
7193	4.273	0.830	0.507	0.470	1.476	11111	1.28	38924.8853	3
7193	4.297	0.853	0.526	0.479	1.482	11111	1.27	39280.8956	3
7235	2.986	0.019	-0.009	-0.017	0.005	11111	1.06	38887.9690	3
7235	2.953	-0.032	-0.025	-0.013	0.014	11111	1.26	39019.7155	3
7236	3.411	-0.046	-0.046	-0.047	-0.137	11111	1.26	38887.9790	3
7236	3.389	-0.099	-0.056	-0.028	-0.071	11111	1.69	39019.7292	3
7236	3.421	-0.042	-0.049	-0.064	-0.145	11111	1.26	39269.9297	3
7298	4.376	-0.083	-0.055	-0.066	-0.222	11111	1.01	38888.9751	3
7298	4.377	-0.080	-0.030	-0.061	-0.226	11111	1.17	39024.7138	3
7306	4.751	-0.004	-0.005	-0.024	-0.140	11111	1.02	38894.9544	3
7306	4.723	-0.044	-0.034	-0.024	-0.125	11111	1.02	39025.6223	3
7310	3.293	0.739	0.446	0.433	1.296	11111	1.22	38894.9657	3
7310	3.348	0.757	0.499	0.425	1.293	11111	1.36	39024.7253	3
7314	4.650	0.918	0.581	0.566	1.756	11111	1.01	38894.9760	3
7314	4.589	0.864	0.541	0.601	1.782	11111	1.01	39025.6324	3
7328	3.962	0.732	0.438	0.433	1.260	11111	1.08	38870.0064	1
7328	4.006	0.694	0.420	0.413	1.236	11111	1.08	39025.6431	3
7340	3.990	0.191	0.131	0.068	0.261	11111	1.56	38896.9676	3
7340	3.933	0.144	0.105	0.073	0.273	11111	1.57	39026.6243	3
7342	4.703	0.332	0.213	0.002	-0.014	11111	1.51	38896.9783	3
7342	4.605	0.280	0.183	-0.011	-0.026	11111	1.53	39026.6354	3
7352	4.786	0.965	0.633	0.506	1.817	11111	1.32	38896.9439	3
7352	4.754	0.944	0.606	0.491	1.813	11111	1.34	39026.6495	3
7358	5.165	-0.088	-0.053	-0.058	-0.180	11111	1.01	38896.9557	3
7358	5.151	-0.080	-0.046	-0.084	-0.197	11111	1.01	39027.6235	3
7371	4.617	0.020	0.023	-0.013	0.038	11111	1.20	38898.9293	3
7371	4.591	0.021	0.013	-0.032	0.033	11111	1.20	39027.6339	3
7372	5.000	-0.064	-0.028	-0.045	-0.172	11111	1.01	38898.9421	3
7372	4.939	-0.068	-0.046	-0.062	-0.208	11111	1.02	39027.6455	3
7377	3.450	0.263	0.156	0.147	0.353	11111	1.15	38898.9535	3
7377	3.389	0.239	0.143	0.124	0.343	11111	1.15	39028.6149	3
7387	4.841	0.517	0.351	0.286	0.608	11111	1.18	38898.9632	3
7387	4.780	0.486	0.309	0.302	0.603	11111	1.19	39028.6246	3
7405	4.878	1.215	0.738	0.606	2.209	11111	1.01	38917.8958	3
7405	4.828	1.193	0.742	0.613	2.191	11111	1.02	39028.6347	3
7417	3.401	0.942	0.601	0.490	1.381	11111	1.00	38917.9072	3
7417	3.376	0.932	0.604	0.491	1.374	11111	1.00	39257.9706	3
7420	3.833	0.140	0.069	0.057	0.174	11111	1.06	38917.9182	3
7420	3.800	0.118	0.041	0.053	0.156	11111	1.06	39269.9409	3
7426	4.734	-0.055	-0.043	-0.066	-0.232	11111	1.00	38924.8973	3
7426	4.726	-0.072	-0.077	-0.068	-0.215	11111	1.00	39269.9518	3
7429	4.767	0.962	0.609	0.449	1.602	11111	1.11	38924.9079	3
7429	4.771	0.929	0.602	0.445	1.607	11111	1.11	39269.9620	3
7437	5.005	-0.025	-0.016	-0.050	-0.171	11111	1.11	38925.8232	3
7437	5.008	0.005	0.006	-0.059	-0.168	11111	1.03	39270.9316	3
7446	4.989	0.063	0.043	0.039	-0.114	11111	1.40	38925.8352	3
7446	4.967	0.070	0.049	0.040	-0.087	11111	1.30	39270.9423	3
7447	4.340	-0.020	-0.017	-0.043	-0.139	11111	1.24	38925.8568	3
7447	4.358	0.004	0.007	-0.037	-0.148	11111	1.20	39270.9513	3
7462	4.895	0.675	0.411	0.293	0.958	11111	1.26	38925.8686	3
7462	4.877	0.665	0.396	0.312	0.976	11111	1.25	39258.9760	3
7469	4.599	0.356	0.200	0.174	0.427	11111	1.05	38925.8842	3
7469	4.554	0.305	0.187	0.168	0.445	11111	1.05	39018.6547	3
7469	4.580	0.340	0.182	0.202	0.466	11111	1.05	39272.9420	3
7478	4.930	0.740	0.457	0.419	1.288	11111	1.00	38925.8950	3
7478	4.909	0.749	0.455	0.403	1.262	11111	1.07	39278.8627	1
7479	4.584	0.614	0.350	0.354	0.980	11111	1.04	38925.9178	3
7479	4.556	0.608	0.356	0.348	0.959	11111	1.09	39278.8730	1
7488	4.643	0.765	0.469	0.491	1.422	11111	1.05	38925.9273	3
7488	4.618	0.767	0.463	0.458	1.391	11111	1.07	39278.8846	1
7503	6.156	0.555	0.315	0.282	0.773	11111	1.07	38925.9392	3
7503	6.137	0.607	0.390	0.325	0.774	11111	1.09	39252.9479	1
7503	6.137	0.538	0.306	0.270	0.746	11111	1.09	39279.8694	3
7503	6.119	0.522	0.302	0.265	0.729	11111	1.08	39407.6266	1
7504	6.403	0.552	0.326	0.283	0.789	11111	1.08	38925.9490	3
7504	6.369	0.588	0.385	0.304	0.774	11111	1.10	39252.9383	1
7504	6.396	0.534	0.323	0.279	0.774	11111	1.08	39279.8782	3
7504	6.380	0.530	0.311	0.288	0.762	11111	1.27	39281.7969	3
7504	6.391	0.529	0.313	0.264	0.751	11111	1.09	39407.6376	1
7525	3.124	1.115	0.734	0.667	2.237	11111	1.16	38926.8363	3
7525	3.113	1.138	0.727	0.661	2.184	11111	1.12	39279.8877	3
7528	2.887	-0.022	-0.016	-0.004	-0.066	11111	1.06	38926.8463	3
7528	2.884	0.012	-0.012	-0.030	-0.072	11111	1.04	39279.8974	3
7536	4.201	1.198	0.651	0.699	1.740	11111	1.05	38926.8689	3
7536	4.206	1.207	0.648	0.714	1.743	11111	1.11	39281.8617	3
7546	5.082	0.089	0.064	0.017	0.104	11111	1.04	38926.8793	3
7546	5.039	0.077	0.045	0.031	0.091	11111	1.09	39281.8707	3
7557	0.756	0.188	0.119	0.083	0.264	11111	1.39	38871.9405	1
7557	0.789	0.150	0.092	0.081	0.249	11111	1.30	39019.7427	3
7557	0.821	0.173	0.122	0.064	0.257	11111	1.10	39377.6517	1
7564	8.032	2.543	0.914	1.677	1.725	11111	1.00	38926.8988	3
7564	6.121	1.601	0.556	1.243	1.631	11111	1.08	39240.9660	3
7564	7.599	2.031	0.483	1.641	1.117	11111	1.29	39297.7565	3
7565	4.956	-0.081	-0.041	-0.065	-0.227	11111	1.02	38926.9225	3
7565	4.947	-0.093	-0.064	-0.090	-0.256	11111	1.18	39297.7892	3
7570	4.048	0.724	0.465	0.423	1.097	11111	1.42	38871.9573	1
7570	4.548	0.777	0.494	0.448	1.222	11111	1.27	39297.8233	3
7570	4.202	0.660	0.421	0.465	1.180	11111	1.19	39410.6005	3
7574	6.263	0.093	0.040	0.027	-0.061	11111	1.17	39246.9404	1
7574	6.282	0.104	0.053	0.079	-0.079	11111	1.04	39249.9958	1
7582	4.086	0.702	0.417	0.404	1.094	11111	1.28	38926.9368	3
7582	4.055	0.702	0.403	0.413	1.102	11111	1.27	39258.9680	3
7589	5.650	0.022	-0.004	0.006	-0.166	11111	1.06	38926.9484	3
7589	5.640	-0.007	-0.021	0.000	-0.169	11111	1.06	39298.8376	1
7592	4.487	-0.032	0.028	-0.039	-0.043	11111	1.12	38871.9733	1
7592	4.581	-0.005	0.002	-0.034	-0.075	11111	1.02	39298.8673	1
7595	4.961	0.805	0.486	0.431	1.377	11111	1.20	38928.8271	3
7595	4.973	0.810	0.507	0.460	1.364	11111	1.10	39298.8774	1

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
7602	3.938	0.710	0.413	0.339	1.019	11111	1.20	38928.8364	3
7602	3.956	0.717	0.442	0.347	1.035	11111	1.24	39300.8058	3
7613	4.941	-0.039	-0.027	-0.038	-0.156	11111	1.04	38928.8464	3
7613	4.943	-0.020	-0.025	-0.041	-0.162	11111	1.20	39300.7684	3
7615	4.147	0.770	0.477	0.442	1.354	11111	1.02	38928.8683	3
7615	4.152	0.801	0.496	0.429	1.329	11111	1.11	39300.7963	3
7619	4.963	0.124	0.069	0.030	0.122	11111	1.07	38928.8782	3
7619	5.022	0.178	0.107	0.070	0.198	11111	1.09	39304.9187	1
7635	3.976	1.268	0.826	0.625	2.312	11111	1.03	38928.8886	3
7635	3.970	1.261	0.808	0.640	2.366	11111	1.08	39304.9289	1
7653	4.725	0.163	0.099	0.061	0.209	11111	1.00	38928.8979	3
7653	4.737	0.178	0.107	0.034	0.199	11111	1.08	39304.9417	1
7678	5.724	0.488	0.280	0.343	0.492	11111	1.02	38916.8980	3
7678	5.719	0.505	0.287	0.326	0.487	11111	1.00	39016.6793	3
7685	4.871	0.998	0.639	0.544	1.909	11111	1.23	38916.9096	3
7685	4.842	0.984	0.643	0.550	1.908	11111	1.23	39016.6671	3
7708	5.005	-0.036	-0.025	-0.085	-0.251	11111	1.01	38916.9212	3
7708	4.985	-0.055	-0.025	-0.120	-0.285	11111	1.01	39016.6894	3
7710	3.148	-0.022	-0.022	-0.022	-0.084	11111	1.47	38870.9641	1
7710	3.201	-0.065	-0.032	-0.042	-0.106	11111	1.19	39016.6993	3
7724	4.996	0.034	0.027	-0.002	0.096	11111	1.05	38917.9423	3
7724	4.956	0.050	0.022	0.014	0.097	11111	1.05	39268.9706	3
7730	4.895	0.109	0.069	0.031	0.094	11111	1.03	38917.9526	3
7730	4.869	0.110	0.074	0.018	0.093	11111	1.05	39046.6255	1
7735	4.173	1.066	0.689	0.579	1.523	11111	1.04	38917.9644	3
7735	4.123	1.060	0.660	0.588	1.487	11111	1.03	39269.9733	3
7736	5.025	0.173	0.083	0.055	0.139	11111	1.01	38921.9172	3
7736	4.983	0.150	0.070	0.067	0.173	11111	1.00	39270.9712	3
7739	4.798	-0.107	-0.052	-0.055	-0.227	11111	1.01	38921.9290	3
7739	4.778	-0.085	-0.093	-0.066	-0.216	11111	1.01	39272.9661	3
7740	4.378	0.140	0.086	0.048	0.136	11111	1.10	38921.9424	3
7740	4.321	0.101	0.049	0.028	0.119	11111	1.12	39279.9080	3
7744	4.861	1.046	0.652	0.520	1.726	11111	1.00	38924.9306	3
7744	4.857	1.030	0.670	0.526	1.710	11111	1.02	39279.9176	3
7747	4.492	0.816	0.507	0.484	1.383	11111	1.42	38924.9422	3
7747	4.495	0.790	0.497	0.507	1.357	11111	1.44	39279.9276	3
7750	4.397	-0.012	-0.017	-0.029	-0.082	11111	1.42	38928.9248	3
7750	4.366	-0.032	-0.022	-0.014	-0.050	11111	1.42	39046.6097	1
7751	4.463	1.250	0.797	0.694	1.978	11111	1.05	38924.9632	3
7751	4.417	1.266	0.777	0.691	1.967	11111	1.04	39280.9282	3
7754	3.801	0.719	0.452	0.405	1.209	11111	1.44	38924.9515	3
7754	3.830	0.743	0.446	0.401	1.189	11111	1.42	39280.9386	3
7763	4.934	0.508	0.290	0.255	0.353	11111	1.01	38928.9387	3
7763	4.966	0.527	0.287	0.264	0.341	11111	1.00	39280.9477	3
7767	5.891	0.159	0.105	0.073	0.018	11111	1.03	38928.9500	3
7767	5.895	0.163	0.070	0.097	0.018	11111	1.01	39280.9566	3
7773	4.751	-0.028	-0.019	-0.032	-0.069	11111	1.50	38929.8662	3
7773	4.766	-0.009	0.010	-0.055	-0.088	11111	1.54	39281.8916	3
7776	3.282	0.665	0.406	0.351	0.903	11111	1.52	38929.8783	3
7776	3.295	0.673	0.421	0.350	0.891	11111	1.56	39281.9003	3
7796	2.398	0.527	0.325	0.310	0.831	11111	1.02	38929.8887	3
7796	2.387	0.527	0.345	0.309	2.319	11110	1.03	39281.9101	3
7796	2.380	0.507	0.328	0.309	0.848	11111	1.26	39406.7382	1
7796	2.378	0.508	0.323	0.315	0.854	11111	1.01	39408.6223	3
7806	4.794	1.068	0.682	0.555	1.921	11111	1.00	38929.8992	3
7806	4.771	1.050	0.674	0.574	1.946	11111	1.00	39298.8887	1
7822	4.829	0.307	0.181	0.191	0.438	11111	1.57	39018.6727	3
7822	4.851	0.324	0.187	0.165	0.414	11111	1.57	39298.9137	1
7834	4.071	0.320	0.172	0.182	0.510	11111	1.00	39018.6852	3
7834	4.117	0.362	0.220	0.181	0.462	11111	1.00	39298.9003	1
7844	4.912	-0.043	-0.027	-0.035	-0.133	11111	1.05	39018.6971	3
7844	4.943	0.005	-0.003	-0.037	-0.165	11111	1.08	39300.8481	3
7847	6.454	0.901	0.553	0.512	1.056	11111	1.07	39024.7329	3
7847	6.491	0.881	0.568	0.477	1.094	11111	1.03	39300.8592	3
7850	4.245	0.142	0.074	0.063	0.254	11111	1.20	39019.7392	3
7850	4.244	0.125	0.068	0.073	0.253	11111	1.28	39306.7850	1
7852	4.018	-0.044	-0.042	-0.076	-0.213	11111	1.21	39024.7445	3
7852	4.008	-0.089	-0.054	-0.059	-0.166	11111	1.27	39306.7954	1
7866	5.050	1.285	0.810	0.762	1.930	11111	1.13	39024.7552	3
7866	5.059	1.273	0.793	0.786	2.003	11111	1.11	39306.8050	1
7871	4.653	0.048	0.023	0.024	0.127	11111	1.05	39025.6542	3
7871	4.724	0.032	0.037	0.021	0.171	11111	1.48	39318.7251	1
7882	3.713	0.353	0.212	0.198	0.503	11111	1.05	39025.6640	3
7882	3.739	0.356	0.222	0.217	0.584	11111	1.40	39318.7368	1
7884	4.517	0.665	0.412	0.426	1.219	11111	1.20	39025.6747	3
7884	4.522	0.677	0.408	0.411	1.251	11111	1.43	39318.7699	1
7891	4.786	-0.069	-0.026	-0.043	-0.057	11111	1.02	39026.6604	3
7891	4.814	-0.003	0.002	-0.037	-0.049	11111	1.27	39318.7486	1
7906	3.754	-0.045	-0.026	-0.047	-0.100	11111	1.04	39026.6696	3
7906	3.768	-0.034	-0.022	-0.051	-0.084	11111	1.26	39318.7599	1
7924	1.305	0.108	0.071	0.056	0.006	11111	1.08	38641.7838	1
7924	1.296	0.096	0.060	0.097	0.012	11111	1.50	38751.5875	3
7924	1.274	0.098	0.037	0.077	0.035	11111	1.39	38752.5681	3
7924	1.279	0.141	0.063	0.104	0.037	11111	1.88	38764.5908	1
7924	1.296	0.105	0.058	0.065	0.036	11111	1.03	39026.6910	3
7924	1.333	0.088	0.041	0.101	0.062	11111	1.03	39058.5904	3
7924	1.313	0.120	0.053	0.061	0.059	11111	1.05	39377.6628	1
7924	1.325	0.103	0.052	0.085	0.041	11111	1.15	39406.7182	1
7928	4.453	0.261	0.166	0.088	0.278	11111	1.05	39027.6566	3
7928	4.468	0.242	0.156	0.120	0.327	11111	1.08	39359.7964	1
7939	5.173	0.890	0.555	0.488	1.602	11111	1.01	39027.6682	3
7939	5.229	0.885	0.567	0.515	1.629	11111	1.14	39359.8422	1
7942	4.465	0.774	0.454	0.452	1.424	11111	1.00	39028.6468	3
7942	4.423	0.771	0.495	0.447	1.399	11111	1.02	39365.7719	1
7947	4.076	0.680	0.415	0.345	1.017	11111	1.05	39029.6431	3
7947	4.074	0.701	0.449	0.340	1.033	11111	1.08	39365.7817	1
7949	2.726	0.771	0.485	0.445	1.336	11111	1.08	38641.7932	1
7949	2.674	0.757	0.447	0.442	1.342	11111	1.01	39029.6324	3
7949	2.699	0.781	0.485	0.439	1.353	11111	1.04	39365.7910	1
7950	3.743	0.001	-0.008	-0.029	-0.033	11111	1.35	39029.6535	3
7950	3.835	0.024	0.018	-0.024	0.006	11111	1.45	39372.6623	3
7951	4.814	1.272	0.679	0.795	2.423	11111	1.26	39029.6636	3
7951	4.918	1.290	0.701	0.788	2.391	11111	1.33	39372.6721	3
7955	4.632	0.440	0.268	0.244	0.649	11111	1.10	39028.6590	3
7955	4.620	0.417	0.257	0.245	0.637	11111	1.21	39372.6218	3
7957	3.645	0.703	0.432	0.387	1.163	11111	1.15	39028.6710	3
7957	3.637	0.709	0.447	0.400	1.164	11111	1.23	39372.6314	3
7963	4.474	-0.076	-0.050	-0.068	-0.180	11111	1.01	39029.6738	3
7963	4.476	-0.061	-0.027	-0.041	-0.137	11111	1.07	39372.6516	3
7977	4.898	0.369	0.213	0.242	0.333	11111	1.04	39029.6846	3
7977	4.967	0.381	0.223	0.250	0.350	11111	1.11	39372.6413	3
7990	4.795	0.231	0.182	0.152	0.405	11111	1.34	39042.6319	3
7990	4.877	0.283	0.166	0.142	0.415	11111	1.34	39373.7047	1
7995	4.752	0.610	0.382	0.374	1.051	11111	1.01	39042.6220	3
7995	4.752	0.617	0.364	0.371	1.043	11111	1.02	39373.6917	1
8001	4.774	-0.091	-0.028	-0.058	-0.182	11111	1.02	39042.6425	3
8001	4.751	-0.088	-0.066	-0.053	-0.177	11111	1.06	39373.6694	1
8020	5.809	0.418	0.215	0.292	0.453	11111	1.03	39045.6225	3
8020	5.776	0.433	0.236	0.295	0.454	11111	1.09	39373.6599	1
8028	3.965	0.025	-0.012	0.003	0.007	11111	1.01	39045.6320	3
8028	3.974	0.042	0.010	-0.015	-0.034	11111	1.04	39373.6789	1
8047	4.593	0.093	0.008	0.025	-0.094	11111	1.04	39045.6417	3
8047	4.763	0.056	-0.034	0.032	-0.115	11111	1.11	39373.6502	1
8060	4.909	0.136	0.114	0.052	0.171	11111	1.67	38916.9501	3
8060	4.863	0.097	0.072	0.041	0.190	11111	1.66	39016.7281	3
8075	4.134	0.021	-0.006	-0.015	0.008	11111	1.55	38921.9606	3
8075	4.092	-0.012	0.002	-0.025	-0.006	11111	1.56	39056.6136	3
8079	4.149	1.243	0.815	0.726	2.321	11111	1.02	38916.9620	3
8079	4.116	1.204	0.775	0.744	2.348	11111	1.03	39016.7413	3
8085	5.688	1.174	0.811	0.278	1.488	11111	1.01	38926.9709	3
8085	5.704	1.165	0.811	0.278	1.487	11111	1.03	39056.6411	3
8086	6.544	1.335	0.880	0.392	1.703	11111	1.01	38926.9609	3
8086	6.531	1.315	0.878	0.375	1.716	11111	1.02	39056.6319	3
8089	4.981	1.213	0.763	0.693	2.343	11111	1.04	38928.9633	3
8089	4.936	1.182	0.739	0.699	2.373	11111	1.04	39057.6081	3
8093	4.728	0.710	0.433	0.413	1.210	11111	1.41	38929.9221	3
8093	4.725	0.690	0.408	0.419	1.243	11111	1.40	39057.6182	3
8097	4.787	0.217	0.125	0.074	0.330	11111	1.09	38929.9325	3
8097	4.788	0.191	0.107	0.111	0.362	11111	1.10	39057.6274	3
8115	0.000	0.000	0.430	0.458	1.295	00111	1.06	38689.6712	1
8115	3.438	0.703	0.449	0.432	1.309	11111	1.00	38929.9419	3
8115	3.416	0.652	0.388	0.484	1.364	11111	1.00	39058.6012	3

TABLE 8 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 52

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
8115	3.492	0.723	0.460	0.466	1.383	11111	1.04	39372.6850	3
8115	3.442	0.693	0.429	0.445	1.324	11111	1.20	39406.7551	1
8115	3.446	0.708	0.443	0.448	1.344	11111	1.00	39408.6334	3
8123	4.614	0.438	0.244	0.229	0.554	11111	1.08	38929.9507	3
8123	4.574	0.409	0.668	0.243	0.574	11011	1.48	39058.9181	3
8130	3.843	0.350	0.205	0.184	0.442	11111	1.01	38929.9599	3
8130	3.841	0.295	0.168	0.229	0.488	11111	1.02	39059.6272	3
8131	4.024	0.437	0.249	0.213	0.614	11111	1.13	39018.7231	3
8131	4.016	0.459	0.245	0.222	0.604	11111	1.13	39060.6055	3
8143	4.236	0.155	0.071	0.078	0.039	11111	1.05	39019.7606	3
8143	4.383	0.182	0.088	0.121	0.127	11111	1.01	39060.6160	3
8146	4.401	0.009	-0.041	-0.046	-0.194	11111	1.04	39019.7602	3
8146	4.348	0.026	-0.016	-0.021	-0.156	11111	1.00	39061.6069	3
8162	2.497	0.174	0.092	0.085	0.272	11111	1.21	39019.7785	3
8162	2.485	0.164	0.101	0.088	0.281	11111	1.16	39061.6185	3
8162	2.520	0.169	0.104	0.089	0.268	11111	1.18	39377.6766	1
8167	4.488	0.672	0.393	0.403	1.133	11111	1.54	39025.7032	3
8167	4.492	0.681	0.434	0.398	1.111	11111	1.63	39279.9486	3
8173	4.332	0.801	0.502	0.484	1.503	11111	1.03	39025.7136	3
8173	4.367	0.841	0.536	0.457	1.480	11111	1.05	39279.9580	3
8225	4.923	1.241	0.763	0.680	2.373	11111	1.02	39025.7239	3
8225	4.984	1.269	0.801	0.657	2.338	11111	1.02	39279.9855	3
8232	3.094	0.610	0.382	0.382	1.071	11111	1.27	39028.6948	3
8232	3.099	0.638	0.404	0.365	1.048	11111	1.32	39281.9563	3
8238	3.188	-0.164	-0.116	-0.110	-0.307	11111	1.27	39026.7023	3
8238	3.189	-0.137	-0.095	-0.103	-0.321	11111	1.32	39281.9218	3
8252	4.209	0.674	0.410	0.391	1.135	11111	1.03	39028.7151	3
8252	4.186	0.683	0.403	0.401	1.119	11111	1.06	39281.9465	3
8255	5.144	0.827	0.527	0.448	1.462	11111	1.01	39031.6721	3
8255	5.146	0.854	0.552	0.441	1.440	11111	1.10	39300.8695	3
8260	4.667	-0.061	-0.059	-0.066	-0.253	11111	1.63	39031.6950	3
8260	4.602	-0.059	-0.075	-0.072	-0.267	11111	1.73	39300.9011	3
8262	5.735	1.580	0.523	1.184	1.782	11111	1.03	39031.6846	3
8262	5.953	1.591	0.492	1.220	1.730	11111	1.07	39306.8733	1
8262	5.684	1.523	0.496	1.184	1.831	11111	1.03	39410.6366	3
8264	4.739	0.140	0.097	0.050	0.193	11111	1.31	39042.6530	3
8264	4.763	0.137	0.056	0.066	0.237	11111	1.39	39306.8853	1
8278	3.765	0.230	0.156	0.114	0.401	11111	1.54	39042.6781	3
8278	0.000	0.000	0.156	0.113	0.444	00111	1.59	39306.8956	1
8278	3.766	0.239	0.142	0.103	0.383	11111	1.53	39407.6554	1
8279	4.839	0.273	0.162	0.193	0.237	11111	1.15	39042.6640	3
8279	4.844	0.290	0.158	0.217	0.253	11111	1.18	39372.6989	3
8288	4.923	0.667	0.391	0.411	1.117	11111	1.60	39045.6529	3
8288	4.929	0.684	0.396	0.408	1.124	11111	1.66	39372.7203	3
8297	6.874	1.996	1.294	1.457	5.532	11111	1.02	39042.6952	3
8297	6.711	1.964	1.260	1.396	4.948	11111	1.01	39372.7368	3
8297	6.890	2.031	1.296	1.490	5.264	11111	1.01	39407.6790	1
8301	4.693	-0.071	-0.065	-0.028	-0.152	11111	1.06	39045.6629	3
8301	4.691	-0.055	-0.055	-0.060	-0.180	11111	1.06	39372.7488	3
8308	2.789	1.092	0.716	0.725	2.246	11111	1.08	39051.6341	3
8308	2.807	1.134	0.743	0.698	2.233	11111	1.09	39372.7796	3
8309	4.604	0.380	0.228	0.228	0.525	11111	1.01	39052.6112	3
8309	4.547	0.410	0.232	0.170	0.526	11111	1.01	39375.7304	1
8313	4.582	0.798	0.526	0.552	1.580	11111	1.04	39052.6201	3
8313	4.539	0.816	0.490	0.483	1.518	11111	1.04	39375.7414	1
8315	4.257	0.377	0.235	0.182	0.462	11111	1.01	39052.6292	3
8315	4.195	0.360	0.215	0.191	0.412	11111	1.01	39375.7618	1
8316	4.621	1.802	1.031	1.326	3.288	11111	1.11	39051.6443	3
8316	4.558	1.826	1.027	1.328	3.339	11111	1.19	39376.6673	3
8316	4.642	1.860	1.034	1.338	3.330	11111	1.13	39407.6987	1
8316	4.617	1.837	1.022	1.332	3.351	11111	1.11	39409.6556	3
8316	4.648	1.828	1.040	1.330	3.343	11111	1.33	39443.6988	1
8316	4.615	1.829	1.009	1.331	3.329	11111	1.18	39459.5975	1
8316	4.651	1.852	1.019	1.317	3.339	11111	1.18	39468.5718	1
8316	4.694	1.833	1.050	1.318	3.344	11111	1.47	39502.5687	1
8317	4.809	0.801	0.502	0.472	1.557	11111	1.28	39051.6224	3
8317	4.790	0.815	0.519	0.448	1.519	11111	1.32	39376.6804	3
8317	4.823	0.835	0.530	0.469	1.544	11111	1.31	39407.7165	1
8322	2.957	0.270	0.173	0.095	0.332	11111	1.52	39053.6448	3
8322	2.949	0.261	0.145	0.183	0.389	11111	1.51	39375.7512	1
8327	6.022	0.293	0.168	0.208	0.269	11111	1.15	39052.6419	3
8327	5.994	0.266	0.153	0.203	0.284	11111	1.19	39376.6927	3
8334	4.483	0.482	0.285	0.309	0.476	11111	1.14	39053.6343	3
8334	4.395	0.444	0.250	0.324	0.495	11111	1.16	39376.7044	3
8335	4.238	-0.037	-0.014	-0.048	-0.188	11111	1.05	39053.6547	3
8335	4.219	-0.069	-0.049	-0.047	-0.169	11111	1.05	39376.7274	3
8383	5.447	1.565	0.887	0.952	2.045	11111	1.17	39053.6643	3
8383	5.423	1.560	0.857	0.918	2.007	11111	1.17	39376.7361	3
8383	5.455	1.598	0.881	0.984	2.172	11111	1.23	39407.7541	1
8402	4.720	-0.009	-0.020	-0.053	-0.161	11111	1.22	39016.7651	3
8402	4.725	-0.013	-0.020	-0.039	-0.147	11111	1.22	39056.6522	3
8413	5.253	1.148	0.746	0.561	2.128	11111	1.15	39016.7773	3
8413	5.294	1.162	0.768	0.552	2.147	11111	1.14	39056.6620	3
8414	3.151	0.687	0.425	0.468	1.312	11111	1.18	38705.6151	3
8414	3.215	0.706	0.457	0.448	1.270	11111	1.21	39056.6784	3
8417	4.326	0.268	0.190	0.153	0.441	11111	1.20	39016.7885	3
8417	4.345	0.285	0.181	0.165	0.430	11111	1.18	39057.6394	3
8418	4.241	-0.061	-0.082	-0.038	-0.101	11111	1.49	38705.6338	3
8418	4.285	-0.052	-0.026	-0.045	-0.093	11111	1.46	39057.6574	3
8430	3.850	0.355	0.198	0.195	0.503	11111	1.01	38705.5964	3
8430	3.858	0.343	0.217	0.224	0.506	11111	1.01	39375.7743	1
8430	3.878	0.369	0.214	0.193	0.512	11111	1.09	39468.5854	1
8450	3.530	0.002	-0.002	0.014	0.106	11111	1.15	38705.6460	3
8450	3.569	0.046	0.034	0.022	0.107	11111	1.13	39057.6683	3
8454	4.352	0.367	0.215	0.230	0.543	11111	1.01	39018.7711	3
8454	4.424	0.381	0.233	0.247	0.561	11111	1.01	39059.6606	3
8465	3.693	1.115	0.717	0.763	2.282	11111	1.12	39018.7855	3
8465	3.796	1.125	0.727	0.728	2.264	11111	1.11	39060.6341	3
8468	5.047	0.708	0.430	0.396	1.173	11111	1.32	39024.7841	3
8468	5.014	0.667	0.394	0.425	1.195	11111	1.30	39060.6448	3
8469	5.110	0.240	0.141	0.172	0.143	11111	1.14	39024.7764	3
8469	5.171	0.237	0.134	0.165	0.167	11111	1.13	39060.6549	3
8485	4.854	1.094	0.702	0.597	1.910	11111	1.05	39024.7885	3
8485	4.859	1.057	0.690	0.607	1.969	11111	1.01	39061.6386	3
8494	4.242	0.220	0.135	0.105	0.306	11111	1.10	39026.7248	3
8494	4.252	0.211	0.145	0.153	0.354	11111	1.10	39061.6492	3
8498	4.473	1.056	0.682	0.621	2.111	11111	1.00	39026.7355	3
8498	4.491	1.051	0.703	0.643	2.129	11111	1.01	39061.6592	3
8499	4.398	0.706	0.442	0.420	1.311	11111	1.32	39026.7458	3
8499	4.414	0.749	0.478	0.412	1.285	11111	1.43	39300.9158	3
8518	3.856	-0.046	-0.019	-0.041	-0.061	11111	1.21	39028.7278	3
8518	3.875	-0.010	0.015	-0.061	-0.100	11111	1.28	39300.9284	3
8520	5.033	-0.095	-0.056	-0.050	-0.206	11111	1.07	39028.7381	3
8520	4.990	-0.066	-0.042	-0.070	-0.245	11111	1.07	39304.9634	1
8522	4.834	-0.001	0.013	-0.002	-0.038	11111	1.01	39028.7466	3
8522	4.834	0.069	0.039	-0.033	-0.016	11111	1.00	39375.7859	1
8523	4.523	-0.080	-0.044	-0.062	-0.168	11111	1.03	39029.7195	3
8523	4.571	-0.042	-0.044	-0.059	-0.160	11111	1.03	39376.7697	3
8538	4.662	0.760	0.473	0.427	1.302	11111	1.06	39029.7294	3
8538	4.670	0.782	0.476	0.444	1.324	11111	1.06	39376.7803	3
8539	4.663	0.131	0.031	0.014	-0.111	11111	1.17	39031.7278	3
8539	4.609	0.146	0.019	0.025	-0.105	11111	1.17	39376.7907	3
8541	4.623	0.139	0.076	0.064	0.020	11111	1.05	39031.7379	3
8541	4.642	0.120	0.085	0.066	0.038	11111	1.13	39377.6926	1
8551	5.066	0.850	0.528	0.432	1.359	11111	1.14	39031.7474	3
8551	5.068	0.815	0.509	0.458	0.000	11110	1.18	39377.7301	1
8551	5.060	0.825	0.504	0.475	1.445	11111	1.18	39408.6434	3
8558	3.790	0.369	0.216	0.180	0.464	11111	1.20	39042.7193	3
8558	3.761	0.353	0.196	0.200	0.484	11111	1.21	39377.7435	1
8571	4.367	0.646	0.380	0.395	1.069	11111	1.11	39045.6910	3
8571	4.323	0.616	0.401	0.376	1.046	11111	1.12	39410.6507	3
8571	4.534	0.654	0.415	0.410	1.120	11111	1.11	39411.6714	1
8571	4.456	0.652	0.391	0.404	1.099	11111	1.15	39459.6132	1
8572	4.793	1.346	0.809	0.851	2.265	11111	1.04	39045.7005	3
8572	4.829	1.340	0.820	0.809	2.139	11111	1.04	39408.6780	3
8573	4.855	-0.034	-0.023	-0.036	-0.049	11111	1.39	39045.7104	3
8573	4.922	0.000	0.004	-0.007	-0.001	11111	1.42	39408.6548	3
8579	4.501	-0.034	-0.024	-0.020	-0.144	11111	1.02	39050.6606	3
8579	4.472	-0.050	-0.032	-0.021	-0.167	11111	1.02	39408.6897	3
8585	3.781	0.025	-0.007	-0.028	0.021	11111	1.05	39050.6732	3
8585	3.731	-0.018	-0.018	-0.024	0.021	11111	1.05	39408.7014	3
8597	4.038	-0.037	-0.011	-0.068	-0.135	11111	1.18	39050.6843	3
8597	4.025	-0.069	-0.045	-0.052	-0.108	11111	1.18	39409.6843	3

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
8613	4.690	0.201	0.113	0.120	0.273	11111	1.06	39051.6776	3
8613	4.656	0.171	0.094	0.092	0.275	11111	1.06	39408.7137	3
8622	4.842	-0.113	-0.077	-0.079	-0.322	11111	1.02	38702.5996	3
8622	4.840	-0.108	-0.072	-0.083	-0.319	11111	1.01	38702.6539	3
8622	4.839	-0.097	-0.070	-0.066	-0.309	11111	1.11	38702.7189	3
8622	4.849	-0.098	-0.091	-0.074	-0.303	11111	1.01	38704.6203	3
8622	4.830	-0.120	-0.101	-0.077	-0.295	11111	1.06	38704.6916	3
8622	4.825	-0.112	-0.067	-0.074	-0.310	11111	1.52	38704.7960	3
8622	4.867	-0.095	-0.082	-0.086	-0.324	11111	1.04	38705.6726	3
8622	4.824	-0.123	-0.078	-0.070	-0.309	11111	2.26	38872.9417	3
8622	4.850	-0.105	-0.060	-0.072	-0.300	11111	2.71	38874.9181	3
8622	4.843	-0.119	-0.075	-0.066	-0.302	11111	2.06	38877.9384	3
8622	4.831	-0.122	-0.074	-0.059	-0.283	11111	2.49	38887.8907	3
8622	4.833	-0.102	-0.066	-0.062	-0.279	11111	2.68	38888.8811	3
8622	4.867	-0.095	-0.056	-0.076	-0.297	11111	2.16	38889.9003	3
8622	4.847	-0.120	-0.087	-0.072	-0.295	11111	2.03	38890.9047	3
8622	4.854	-0.108	-0.066	-0.078	-0.306	11111	1.22	38894.9861	3
8622	4.827	-0.102	-0.083	-0.072	-0.287	11111	1.18	38896.9910	3
8622	4.856	-0.109	-0.062	-0.093	-0.299	11111	2.81	38915.8033	3
8622	4.839	-0.091	-0.052	-0.073	-0.302	11111	2.22	38916.8233	3
8622	4.856	-0.094	-0.062	-0.070	-0.289	11111	1.08	38916.9722	3
8622	4.850	-0.110	-0.068	-0.077	-0.303	11111	2.66	38917.8026	3
8622	4.873	-0.112	-0.063	-0.068	-0.288	11111	1.07	38917.9760	3
8622	4.858	-0.107	-0.074	-0.071	-0.305	11111	2.28	38918.8151	3
8622	4.907	-0.079	-0.037	-0.071	-0.301	11111	1.05	38921.9743	3
8622	4.850	-0.108	-0.061	-0.085	-0.309	11111	1.19	38922.9192	1
8622	4.866	-0.102	-0.071	-0.074	-0.298	11111	2.45	38924.7911	3
8622	4.854	-0.107	-0.059	-0.073	-0.296	11111	1.04	38924.9770	3
8622	4.841	-0.120	-0.081	-0.067	-0.311	11111	2.41	38925.7901	3
8622	4.878	-0.089	-0.065	-0.081	-0.291	11111	1.06	38925.9587	3
8622	4.849	-0.109	-0.061	-0.081	-0.304	11111	2.43	38926.7867	3
8622	4.857	-0.103	-0.062	-0.065	-0.298	11111	1.03	38926.9804	3
8622	4.840	-0.109	-0.068	-0.069	-0.298	11111	2.41	38928.7819	3
8622	4.857	-0.109	-0.063	-0.084	-0.287	11111	1.02	38928.9822	3
8622	4.865	-0.092	-0.068	-0.065	-0.295	11111	2.46	38929.7771	3
8622	4.862	-0.099	-0.055	-0.063	-0.304	11111	1.02	38929.9778	3
8622	4.835	-0.159	-0.075	-0.078	-0.264	11111	1.03	39013.8182	1
8622	4.869	-0.103	-0.085	-0.064	-0.300	11111	1.02	39016.7983	3
8622	4.861	-0.111	-0.074	-0.071	-0.295	11111	1.02	39018.7964	3
8622	4.867	-0.106	-0.075	-0.066	-0.295	11111	1.05	39019.8216	3
8622	4.855	-0.113	-0.053	-0.081	-0.301	11111	1.03	39024.7960	3
8622	4.854	-0.101	-0.070	-0.071	-0.292	11111	1.03	39026.7833	3
8622	4.868	-0.114	-0.070	-0.076	-0.297	11111	1.04	39028.7882	3
8622	4.866	-0.110	-0.078	-0.074	-0.293	11111	1.03	39029.7826	3
8622	4.854	-0.108	-0.078	-0.067	-0.297	11111	1.11	39031.6472	3
8622	4.841	-0.120	-0.083	-0.084	-0.309	11111	1.24	39035.5973	1
8622	4.863	-0.109	-0.058	-0.073	-0.284	11111	1.01	39035.7186	1
8622	4.832	-0.148	-0.081	-0.064	-0.300	11111	1.16	39042.5980	3
8622	4.857	-0.125	-0.070	-0.063	-0.287	11111	2.11	39042.9173	3
8622	4.871	-0.118	-0.091	-0.059	-0.274	11111	1.09	39044.7712	3
8622	4.861	-0.116	-0.085	-0.063	-0.275	11111	1.13	39045.6010	3
8622	4.861	-0.089	-0.071	-0.068	-0.283	11111	1.03	39050.6375	3
8622	4.862	-0.110	-0.075	-0.066	-0.291	11111	1.08	39050.7515	3
8622	4.873	-0.112	-0.067	-0.073	-0.298	11111	2.35	39050.9076	3
8622	4.847	-0.119	-0.084	-0.039	-0.294	11111	1.09	39051.5983	3
8622	4.867	-0.097	-0.089	-0.072	-0.302	11111	1.06	39053.6089	3
8622	4.844	-0.125	-0.076	-0.079	-0.300	11111	1.06	39054.6053	3
8622	4.859	-0.117	-0.064	-0.064	-0.287	11111	1.01	39055.6449	3
8622	4.859	-0.117	-0.064	-0.064	-0.287	11111	1.01	39055.6449	3
8622	4.851	-0.140	-0.103	-0.065	-0.288	11111	1.08	39056.5906	3
8622	4.848	-0.112	-0.080	-0.074	-0.289	11111	2.92	39056.9117	3
8622	4.834	-0.129	-0.108	-0.056	-0.273	11111	1.09	39057.5833	3
8622	4.844	-0.133	-0.078	-0.055	-0.293	11111	1.13	39058.5666	3
8622	4.740	-0.112	-0.085	-0.084	-0.298	11111	1.08	39060.5814	3
8622	4.850	-0.140	-0.081	-0.074	-0.278	11111	1.06	39061.5853	3
8622	4.861	-0.129	-0.071	-0.064	-0.296	11111	1.01	39076.6279	3
8622	4.853	-0.111	-0.075	-0.069	-0.294	11111	2.17	39076.8278	3
8622	4.818	-0.122	-0.101	-0.050	-0.207	11111	1.09	39091.6454	1
8622	4.833	-0.126	-0.084	-0.056	-0.285	11111	2.43	39140.6652	3
8622	4.851	-0.110	-0.078	-0.069	-0.292	11111	2.40	39241.9250	3
8622	4.851	-0.096	-0.070	-0.077	-0.296	11111	1.16	39268.9801	3
8622	4.840	-0.110	-0.095	-0.072	-0.294	11111	1.14	39269.9835	3
8622	4.846	-0.130	-0.090	-0.069	-0.285	11111	2.21	39270.8545	3
8622	4.860	-0.090	-0.064	-0.074	-0.307	11111	1.14	39270.9802	3
8622	4.876	-0.111	-0.107	-0.074	-0.305	11111	2.25	39272.8470	3
8622	4.859	-0.090	-0.071	-0.071	-0.283	11111	1.14	39272.9756	3
8622	4.843	-0.119	-0.087	-0.039	-0.296	11111	2.04	39279.8396	3
8622	4.870	-0.102	-0.064	-0.083	-0.308	11111	1.11	39279.9669	3
8622	4.858	-0.093	-0.074	-0.063	-0.295	11111	1.10	39280.9657	3
8622	4.845	-0.126	-0.100	-0.067	-0.299	11111	2.61	39281.8077	3
8622	4.862	-0.105	-0.070	-0.074	-0.281	11111	1.10	39281.9657	3
8622	4.857	-0.101	-0.060	-0.075	-0.294	11111	2.62	39296.7661	3
8622	4.842	-0.127	-0.085	-0.062	-0.291	11111	2.50	39297.7679	3
8622	4.841	-0.105	-0.082	-0.054	-0.271	11111	1.07	39298.9314	1
8622	4.869	-0.103	-0.081	-0.080	-0.302	11111	2.12	39300.7773	3
8622	4.828	-0.121	-0.074	-0.085	-0.319	11111	1.11	39304.8994	1
8622	4.879	-0.111	-0.080	-0.068	-0.265	11111	1.21	39306.8619	1
8622	4.837	-0.121	-0.078	-0.076	-0.287	11111	1.05	39359.7745	1
8622	4.832	-0.122	-0.072	-0.079	-0.296	11111	1.06	39365.7517	1
8622	4.889	-0.100	-0.058	-0.070	-0.290	11111	1.12	39372.7092	3
8622	4.813	-0.134	-0.078	-0.075	-0.323	11111	1.01	39373.8081	1
8622	4.904	0.149	-0.060	-0.082	-0.305	11111	1.13	39375.6954	1
8622	4.886	-0.073	-0.050	-0.096	-0.317	11111	1.01	39375.7958	1
8622	4.844	-0.117	-0.083	-0.081	-0.290	11111	1.07	39376.7176	3
8622	4.866	-0.108	-0.078	-0.058	-0.271	11111	1.01	39377.7960	1
8622	4.868	-0.116	-0.066	-0.064	-0.281	11111	1.06	39406.7694	1
8622	4.872	-0.108	-0.060	-0.080	-0.303	11111	1.02	39407.7293	1
8622	4.911	-0.083	-0.047	-0.081	-0.281	11111	1.02	39408.6655	3
8622	4.827	-0.139	-0.076	-0.084	-0.323	11111	1.03	39408.7375	3
8622	4.840	-0.121	-0.080	-0.078	-0.296	11111	1.02	39409.6697	3
8622	4.860	-0.118	-0.072	-0.073	-0.294	11111	1.03	39409.7409	3
8622	4.855	-0.106	-0.064	-0.079	-0.301	11111	1.02	39410.7297	3

B.S.	52	52-6^	52-58	45-52	40-52	WTS	AM	J.D.	LS
8622	4.856	-0.126	-0.076	-0.081	-0.292	11111	1.06	39411.7533	1
8622	4.853	-0.108	-0.075	-0.070	-0.295	11111	1.08	39412.6155	1
8622	4.855	-0.115	-0.064	-0.084	-0.298	11111	1.01	39431.6489	1
8622	4.824	-0.141	-0.093	-0.072	-0.242	11111	1.02	39432.5976	1
8622	4.833	-0.137	-0.099	-0.064	-0.264	11111	1.02	39440.6483	1
8622	4.830	-0.144	-0.085	-0.052	-0.273	11111	1.01	39441.6187	1
8622	4.874	-0.109	-0.071	-0.067	-0.284	11111	1.04	39442.5585	1
8622	4.841	-0.139	-0.096	-0.070	-0.284	11111	1.04	39443.5541	1
8622	0.000	-0.110	-0.076	-0.070	-0.276	01111	1.27	39448.7191	1
8622	4.844	-0.122	-0.081	-0.078	-0.283	11111	1.17	39451.6857	1
8622	4.818	-0.165	-0.080	-0.069	-0.260	11111	1.01	39459.5466	1
8622	4.861	-0.115	-0.073	-0.064	-0.292	11111	1.03	39461.5996	1
8622	4.855	-0.121	-0.092	-0.040	-0.281	11111	1.01	39468.5584	1
8622	4.830	-0.118	-0.083	-0.068	-0.293	11111	1.46	39468.6969	1
8622	4.850	-0.149	-0.082	-0.056	-0.274	11111	1.05	39473.5794	1
8622	4.819	-0.147	-0.079	-0.071	-0.271	11111	1.11	39474.6034	1
8622	4.864	-0.106	-0.063	-0.065	-0.286	11111	1.65	39501.6284	1
8632	4.841	0.991	0.642	0.561	1.851	11111	1.02	39051.6880	3
8632	4.800	0.999	0.628	0.550	1.823	11111	1.03	39408.7268	3
8634	3.432	-0.024	-0.014	-0.071	-0.184	11111	1.15	38705.6867	3
8634	3.401	-0.056	-0.038	-0.058	-0.123	11111	1.08	39409.6966	3
8641	4.808	-0.032	0.013	-0.008	-0.008	11111	1.00	39052.6711	3
8641	4.816	-0.016	-0.013	-0.034	-0.028	11111	1.00	39409.7116	3
8649	5.028	1.060	0.693	0.591	1.962	11111	1.60	39052.6800	3
8649	5.029	1.044	0.664	0.556	1.964	11111	1.62	39410.6757	3
8650	3.128	0.638	0.399	0.379	1.081	11111	1.03	39054.6270	3
8650	3.144	0.638	0.387	0.377	1.059	11111	1.00	39411.6940	1
8665	4.317	0.425	0.278	0.225	0.556	11111	1.09	39054.6369	3
8665	4.309	0.406	0.237	0.235	0.553	11111	1.07	39411.7070	1
8667	4.208	0.756	0.484	0.471	1.443	11111	1.02	39054.6464	3
8667	4.188	0.760	0.481	0.469	1.440	11111	1.02	39411.7181	1
8679	4.441	1.222	0.793	0.648	2.351	11111	1.46	39054.6571	3
8679	4.450	1.213	0.754	0.640	2.336	11111	1.45	39410.6882	3
8684	3.746	0.662	0.413	0.436	1.230	11111	1.01	38689.6854	1
8684	3.721	0.693	0.434	0.409	1.194	11111	1.03	39411.7298	1
8694	3.750	0.773	0.507	0.464	1.413	11111	1.20	39054.6687	3
8694	3.735	0.767	0.486	0.443	1.401	11111	1.22	39411.7420	1
8698	4.165	1.265	0.768	0.762	2.371	11111	1.31	39054.6787	3
8698	4.126	1.287	0.763	0.738	2.355	11111	1.43	39431.7090	1
8702	5.098	0.977	0.639	0.517	1.771	11111	1.58	39054.7203	3
8702	5.034	0.959	0.576	0.519	1.740	11111	1.57	39459.5671	1
8709	3.284	0.043	0.037	0.014	0.077	11111	1.54	39054.7084	3
8709	3.294	0.032	0.033	-0.008	0.073	11111	1.50	39410.7017	3
8717	4.932	-0.009	0.029	-0.025	-0.008	11111	1.15	39054.7308	3
8717	4.868	-0.012	-0.012	-0.015	-0.004	11111	1.11	39432.6695	1
8729	5.641	0.547	0.348	0.271	0.796	11111	1.02	39055.6821	3
8729	5.610	0.514	0.329	0.294	0.804	11111	1.04	39431.6845	1
8729	5.609	0.539	0.292	0.293	0.794	11111	1.02	39432.6456	1
8748	5.077	1.105	0.741	0.570	2.120	11111	1.61	39055.6711	3
8748	5.024	1.100	0.679	0.573	2.070	11111	1.61	39459.5801	1
8752	5.407	1.213	0.799	0.785	2.005	11111	1.10	39055.6929	3
8752	5.505	1.276	0.812	0.809	2.106	11111	1.14	39411.7678	1
8762	3.562	-0.013	-0.044	-0.019	-0.166	11111	1.06	38705.6986	3
8762	3.621	-0.031	-0.032	-0.040	-0.161	11111	1.13	38752.6025	3
8762	3.645	-0.038	-0.017	-0.045	-0.177	11111	1.05	39408.7636	3
8762	3.661	-0.035	-0.023	-0.041	-0.155	11111	1.04	39461.6142	1
8773	4.496	-0.070	-0.044	-0.051	-0.156	11111	1.40	38752.6131	3
8773	4.527	-0.064	-0.026	-0.047	-0.163	11111	1.15	39053.7106	3
8775	2.869	1.287	0.672	0.825	2.460	11111	1.00	39019.7907	3
8775	2.845	1.281	0.709	0.821	2.489	11111	1.02	39053.7199	3
8780	4.889	0.801	0.492	0.466	1.383	11111	1.05	39019.8011	3
8780	4.915	0.792	0.492	0.457	1.417	11111	1.05	39057.6902	3
8781	2.530	-0.041	-0.009	-0.006	-0.051	11111	1.05	38689.6945	1
8781	2.512	-0.038	-0.008	-0.031	-0.049	11111	1.06	39057.7004	3
8781	2.487	-0.009	-0.011	-0.031	-0.062	11111	1.15	39298.9448	1
8795	4.952	1.264	0.769	0.641	2.341	11111	1.10	39019.8023	3
8795	5.011	1.263	0.797	0.644	2.344	11111	1.11	39057.7105	3
8796	5.100	1.017	0.639	0.598	1.811	11111	1.01	39019.8006	3
8796	5.094	0.986	0.607	0.610	1.839	11111	1.02	39059.6982	3
8797	4.800	0.040	0.017	0.033	-0.129	11111	1.62	38870.9993	1
8797	4.850	-0.009	-0.013	0.051	-0.103	11111	1.13	39059.7089	3
8808	6.249	-0.003	0.000	0.013	-0.056	11111	1.17	39019.8119	3
8808	6.311	0.029	0.008	0.006	-0.076	11111	1.17	39060.6964	3
8819	4.602	0.641	0.379	0.345	0.984	11111	1.36	39025.7837	3
8819	4.641	0.640	0.413	0.354	1.008	11111	1.37	39060.7078	3
8819	4.574	0.622	0.388	0.337	0.964	11111	1.39	39408.7776	3

TABLE 8 INDIVIDUAL OBSERVATIONS RELATIVE TO FILTER 52

B.S.	52	52-63	52-58	45-52	40-52	WTS	AM	J.D.	LS
8830	4.605	0.241	0.137	0.132	0.352	11111	1.05	39076.6541	3
8830	0.000	0.000	0.152	0.120	0.332	00111	1.07	39409.7656	3
8832	5.848	0.893	0.608	0.296	1.281	11111	2.10	38887.9072	3
8832	5.871	0.910	0.613	0.275	1.281	11111	2.20	38888.8969	3
8832	5.876	0.920	0.609	0.291	1.297	11111	1.97	38889.9132	3
8832	5.869	0.917	0.586	0.336	1.289	11111	1.99	38915.8400	3
8832	5.852	0.904	0.585	0.300	1.282	11111	2.02	38916.8345	3
8832	5.846	0.896	0.585	0.311	1.295	11111	2.21	38917.8171	3
8832	5.909	0.925	0.626	0.284	1.256	11111	1.17	38917.9864	3
8832	5.872	0.913	0.611	0.294	1.296	11111	2.05	38918.8267	3
8832	5.869	0.902	0.617	0.305	1.296	11111	1.28	38922.9318	1
8832	5.877	0.901	0.591	0.321	1.299	11111	2.02	38924.8135	3
8832	5.876	0.963	0.639	0.300	1.264	11111	1.14	38924.9860	3
8832	5.864	0.916	0.617	0.271	1.285	11111	2.14	38925.8008	3
8832	5.904	0.918	0.616	0.304	1.294	11111	1.16	38925.9688	3
8832	5.886	0.927	0.642	0.263	1.245	11111	2.11	38926.8004	3
8832	5.889	0.943	0.616	0.281	1.264	11111	1.13	38926.9890	3
8832	5.888	0.939	0.622	0.291	1.273	11111	2.10	38928.7953	3
8832	5.892	0.916	0.613	0.295	1.291	11111	1.14	38928.9731	3
8832	5.869	0.897	0.586	0.308	1.280	11111	2.14	38929.7893	3
8832	5.876	0.919	0.615	0.299	1.288	11111	1.15	38929.9694	3
8832	5.894	0.965	0.611	0.301	1.250	11111	1.13	39013.8570	1
8832	5.869	0.902	0.616	0.299	1.291	11111	1.11	39016.8212	3
8832	5.887	0.908	0.617	0.291	1.271	11111	1.11	39018.8270	3
8832	5.874	0.917	0.584	0.308	1.288	11111	1.13	39024.8226	3
8832	5.875	0.914	0.614	0.290	1.284	11111	1.21	39031.6581	3
8832	5.860	0.916	0.588	0.298	1.272	11111	1.33	39035.6080	1
8832	5.894	0.925	0.624	0.305	1.293	11111	1.10	39035.7302	1
8832	5.861	0.883	0.598	0.302	1.291	11111	1.26	39042.6090	3
8832	5.889	0.917	0.598	0.294	1.302	11111	1.23	39045.6111	3
8832	5.892	0.909	0.600	0.000	1.266	11101	1.13	39050.6487	3
8832	5.862	0.891	0.604	0.306	1.288	11111	1.19	39051.6100	3
8832	5.853	0.898	0.600	0.297	1.281	11111	1.16	39053.6231	3
8832	5.873	0.894	0.607	0.295	1.283	11111	1.17	39054.6160	3
8832	5.895	0.931	0.624	0.291	1.287	11111	1.11	39055.6579	3
8832	5.886	0.898	0.596	0.279	1.270	11111	1.18	39056.6017	3
8832	5.858	0.889	0.609	0.318	1.300	11111	2.04	39056.9221	3
8832	5.894	0.905	0.588	0.298	1.290	11111	1.19	39057.5932	3
8832	5.878	0.925	0.617	0.287	1.288	11111	1.23	39058.5779	3
8832	5.820	0.917	0.611	0.276	1.276	11111	1.18	39060.5924	3
8832	5.831	0.875	0.584	0.308	1.310	11111	1.17	39061.5956	3
8832	5.885	0.910	0.597	0.296	1.283	11111	1.10	39076.6420	3
8832	5.884	0.915	0.618	0.293	1.275	11111	2.11	39241.9371	3
8832	5.879	0.919	0.610	0.295	1.267	11111	2.00	39270.8668	3
8832	5.863	0.904	0.625	0.291	1.310	11111	2.04	39272.8579	3
8832	5.892	0.931	0.628	0.289	1.280	11111	1.22	39279.9756	3
8832	5.891	0.936	0.613	0.305	1.275	11111	1.21	39280.9746	3
8832	5.872	0.916	0.614	0.288	1.281	11111	2.24	39281.8186	3
8832	5.896	0.937	0.623	0.285	1.280	11111	1.20	39281.9746	3
8832	5.865	0.903	0.589	0.300	1.280	11111	2.25	39296.7771	3
8832	5.890	0.938	0.623	0.282	1.274	11111	2.19	39297.7784	3
8832	5.894	0.933	0.624	0.299	1.272	11111	1.99	39300.7864	3
8832	5.877	0.926	0.626	0.286	1.281	11111	1.12	39300.9711	3
8832	5.915	0.918	0.618	0.319	1.321	11111	1.21	39304.9083	1
8832	5.867	0.905	0.594	0.315	1.300	11111	1.16	39359.7856	1
8832	5.855	0.931	0.616	0.299	1.289	11111	1.17	39365.7612	1
8832	5.815	0.765	0.595	0.328	1.344	11111	1.21	39375.7147	1
8832	5.920	0.920	0.613	0.299	1.303	11111	1.10	39377.8064	1
8832	5.892	0.914	0.597	0.299	1.295	11111	1.13	39406.7845	1
8832	5.891	0.920	0.611	0.302	1.282	11111	1.10	39407.7413	1
8832	5.853	0.906	0.598	0.288	1.264	11111	1.11	39408.7487	3
8832	5.894	0.913	0.613	0.291	1.277	11111	1.11	39409.7536	3
8832	5.889	0.908	0.603	0.288	1.285	11111	1.15	39411.7798	1
8832	5.875	0.911	0.603	0.285	1.282	11111	1.10	39431.6647	1
8832	5.904	0.926	0.613	0.296	1.250	11111	1.11	39432.6223	1
8832	5.894	0.918	0.602	0.295	1.277	11111	1.11	39440.6677	1
8832	5.943	0.962	0.608	0.256	1.230	11111	1.35	39441.7724	1
8832	5.870	0.910	0.607	0.312	1.298	11111	1.23	39443.7306	1
8832	5.866	0.907	0.596	0.295	1.264	11111	1.15	39459.6525	1
8832	5.878	0.907	0.610	0.277	1.279	11111	1.39	39468.7101	1
8832	5.883	0.914	0.623	0.295	1.287	11111	1.50	39501.6414	1
8834	4.638	1.234	0.743	0.657	2.310	11111	1.32	39025.8088	3
8834	4.650	1.266	0.770	0.631	2.294	11111	1.41	39300.9510	3
8841	4.493	0.811	0.513	0.466	1.483	11111	1.34	39026.7568	3
8841	4.551	0.845	0.556	0.464	1.489	11111	1.34	39359.8547	1
8852	3.911	0.697	0.413	0.410	1.146	11111	1.15	39026.7747	3
8852	3.932	0.699	0.424	0.428	1.188	11111	1.16	39359.8861	1
8858	4.375	-0.103	-0.052	-0.073	-0.199	11111	1.34	39026.7659	3
8858	4.434	-0.070	-0.026	-0.068	-0.198	11111	1.34	39359.8644	1
8860	5.227	1.290	0.739	0.754	2.456	11111	1.05	39025.7955	3
8860	5.252	1.300	0.723	0.763	2.475	11111	1.04	39028.7685	3
8860	5.238	1.305	0.740	0.768	2.471	11111	1.10	39298.9559	1
8872	4.958	0.653	0.378	0.384	1.079	11111	1.23	39028.7787	3
8872	4.954	0.676	0.425	0.363	1.036	11111	1.29	39300.9408	3
8880	4.637	0.112	0.083	0.061	0.193	11111	1.07	38705.7109	3
8880	4.592	0.132	0.065	0.043	0.150	11111	1.01	39373.8292	1
8892	4.197	0.829	0.506	0.479	1.467	11111	1.68	39029.7411	3
8892	4.213	0.841	0.502	0.468	1.436	11111	1.67	39373.8497	1
8905	4.583	0.503	0.306	0.284	0.699	11111	1.01	39029.7627	3
8905	4.547	0.471	0.262	0.249	0.659	11111	1.02	39373.8388	1
8906	4.775	1.172	0.763	0.596	2.194	11111	1.68	39029.7527	3
8906	4.877	1.217	0.765	0.631	2.241	11111	1.70	39375.8468	1
8911	4.985	0.057	0.066	-0.034	0.031	11111	1.17	39031.7676	3
8911	4.967	0.064	0.056	-0.045	0.052	11111	1.20	39375.8570	1
8916	4.556	0.834	0.526	0.460	1.441	11111	1.12	39031.7765	3
8916	4.568	0.817	0.518	0.460	1.465	11111	1.12	39377.8284	1
8923	4.780	0.738	0.458	0.418	1.224	11111	1.07	39031.7858	3
8923	4.772	0.702	0.442	0.422	1.260	11111	1.07	39377.8391	1
8926	4.893	-0.050	-0.028	-0.046	-0.173	11111	1.12	39042.7552	3
8926	4.865	-0.052	-0.031	-0.056	-0.188	11111	1.11	39410.7428	3
8961	3.982	0.821	0.503	0.424	1.232	11111	1.04	39042.7652	3
8961	4.025	0.819	0.508	0.420	1.238	11111	1.05	39409.7770	3
8965	4.299	-0.051	-0.057	-0.023	-0.106	11111	1.02	39045.7279	3
8965	4.292	-0.039	-0.035	-0.051	-0.134	11111	1.03	39468.6062	1
8969	4.219	0.402	0.241	0.236	0.575	11111	1.21	38702.6102	3
8969	4.230	0.428	0.257	0.237	0.580	11111	1.12	38702.6678	3
8969	4.233	0.425	0.243	0.229	0.583	11111	1.19	38702.7312	3
8969	4.230	0.423	0.235	0.242	0.565	11111	2.19	38702.8440	3
8969	4.240	0.438	0.251	0.227	0.584	11111	1.16	38704.6293	3
8969	4.229	0.434	0.232	0.228	0.593	11111	1.14	38704.7014	3
8969	4.221	0.441	0.257	0.232	0.570	11111	1.74	38704.8113	3
8969	4.262	0.426	0.229	0.246	0.588	11111	1.12	39045.7366	3
8969	4.248	0.419	0.239	0.224	0.587	11111	1.16	39468.6185	1
8974	3.502	0.796	0.496	0.417	1.378	11111	1.41	39045.7462	3
8974	3.474	0.804	0.497	0.398	1.345	11111	1.44	39459.6670	1
8976	4.148	-0.034	-0.010	-0.064	-0.114	11111	1.02	39050.7078	3
8976	4.139	-0.067	-0.034	-0.059	-0.120	11111	1.18	39468.6855	1
8982	4.990	0.618	0.379	0.347	1.001	11111	1.57	39050.7273	3
8982	4.987	0.610	0.378	0.366	1.015	11111	1.71	39468.6358	1
8984	4.548	0.143	0.096	0.072	0.235	11111	1.17	39051.7103	3
8984	4.563	0.165	0.098	0.045	0.216	11111	1.40	39468.6729	1
8988	4.459	-0.058	-0.033	0.003	-0.044	11111	1.47	39051.7206	3
8988	4.469	-0.042	-0.022	-0.046	-0.046	11111	1.65	39468.6474	1
8997	5.155	0.708	0.432	0.401	1.201	11111	1.00	39051.7335	3
8997	5.129	0.703	0.445	0.420	1.206	11111	1.01	39432.7049	1
9045	4.817	0.860	0.590	0.575	1.444	11111	1.11	39052.7000	3
9045	4.821	0.845	0.535	0.662	1.372	11111	1.16	39459.6824	1
9064	5.055	1.245	0.700	0.755	2.259	11111	1.01	39052.7097	3
9064	5.009	1.275	0.682	0.770	2.269	11111	1.03	39432.7225	1
9071	4.898	-0.019	0.002	-0.008	-0.140	11111	1.09	39052.7334	3
9071	4.905	-0.031	-0.017	-0.009	-0.151	11111	1.09	39461.6276	1
9072	4.146	0.362	0.237	0.177	0.435	11111	1.11	39052.7438	3
9072	4.138	0.368	0.210	0.177	0.452	11111	1.12	39440.6925	1
9089	4.829	1.243	0.648	0.842	2.345	11111	1.29	39052.7536	3
9089	4.796	1.252	0.634	0.795	2.318	11111	1.41	39468.6598	1
9098	4.522	-0.011	-0.043	0.022	-0.034	11111	1.59	39013.8712	1
9098	4.529	-0.035	-0.028	-0.013	-0.087	11111	1.57	39051.7563	3
9098	4.544	-0.015	-0.006	-0.034	-0.049	11111	1.95	39448.7403	1

TABLE 9 DATA FOR .365 μ FILTER

B.S.	33-40	33-36	WT	J.D.
3	0.201	0.368	11	38641.8624
21	-0.147	0.104	11	38702.6345
21	-0.157	0.112	11	38702.6810
21	-0.146	0.097	11	38702.7514
21	-0.122	0.120	11	38704.6385
21	-0.123	0.115	11	38704.7302
21	-0.196	0.114	11	38708.7120
39	-1.238	-0.329	11	38689.6272
39	-1.265	-0.326	11	38702.6437
39	-1.288	-0.326	11	38702.6896
39	-1.269	-0.321	11	38702.7424
39	-1.211	-0.317	11	38702.8588
39	-1.263	-0.320	11	38704.6656
39	-1.251	-0.321	11	38704.7388
39	-1.262	-0.336	11	38704.8201
45	1.063	0.722	11	38641.8459
248	0.889	0.655	11	38752.6245
271	0.070	0.272	11	38752.6377
458	-0.399	0.063	11	38641.8720
458	-0.396	0.144	11	38708.7760
464	0.560	0.557	11	38708.7868
483	-0.291	0.142	11	38641.8838
595	-0.327	0.012	11	38708.8224
603	0.074	0.212	11	38708.8332
603	0.140	0.230	11	38764.6678
617	0.374	0.483	11	38641.8360
617	0.404	0.422	11	38641.9496
617	0.402	0.479	11	38751.6205
617	0.415	0.407	11	38752.5797
617	0.413	0.459	11	38764.6101
617	0.479	0.460	11	38786.5794
617	0.442	0.441	11	38789.5692
617	0.345	0.470	11	38791.5702
622	0.013	0.071	11	38751.6469
681	2.336	1.813	11	38752.6822
681	2.083	1.630	11	38764.6352
681	1.940	1.630	11	38786.6156
681	2.010	1.699	11	38789.5821
681	1.809	2.687	11	38791.6029
718	-0.185	-0.003	11	38751.6324
718	-0.261	-0.028	11	38752.5903
718	-0.228	-0.036	11	38764.6202
753	0.085	0.226	11	38789.6163
753	0.059	0.163	11	38791.6127
779	-1.257	-0.294	11	38708.8429
779	-1.233	-0.287	11	38791.5932
788	-0.383	0.110	11	38708.8525
875	-0.016	0.112	11	38786.6325
875	-0.024	0.000	10	38791.5806
896	-0.694	-0.140	11	38752.7013
911	0.971	0.697	11	38786.6459
936	-0.633	-0.104	11	38708.8633
937	-0.350	0.079	11	38702.6250
937	-0.401	0.055	11	38702.6983
937	-0.397	0.077	11	38702.7608
937	-0.402	0.059	11	38702.8687
937	-0.377	0.074	11	38702.9271
937	-0.393	0.054	11	38704.6739
937	-0.371	0.067	11	38704.7473
937	-0.379	0.063	11	38704.8276
937	-0.369	0.089	11	38704.8873
937	-0.373	0.074	11	38704.9223
984	-0.124	0.082	11	38705.7431
991	0.765	0.598	11	38705.7817
1017	0.353	0.375	11	38641.9584
1017	0.305	0.364	11	38704.8509
1017	0.308	0.342	11	38751.6839
1017	0.332	0.366	11	38752.7147
1017	0.341	0.360	11	38764.6518
1066	0.266	0.397	11	38705.7986
1084	-0.160	0.085	11	38702.7081
1084	-0.178	0.102	11	38702.8139
1084	-0.169	0.088	11	38702.8823
1084	-0.128	0.115	11	38702.9360
1084	-0.229	0.037	11	38704.6824
1084	-0.159	0.086	11	38704.7559
1084	-0.168	0.095	11	38704.8361
1084	-0.166	0.103	11	38704.8965
1084	-0.174	0.087	11	38704.9312
1084	-0.126	0.072	11	38705.7548
1084	-0.134	0.117	11	38705.9667
1101	-0.362	0.063	11	38705.8108
1101	-0.374	0.064	11	38786.6581
1131	-1.124	-0.232	11	38705.8207
1135	0.153	0.290	11	38705.8312
1162	1.104	0.685	11	38751.7439
1165	-0.468	-0.067	11	38751.7602
1251	-0.110	0.023	11	38708.7277
1251	-0.119	-0.140	11	38786.6722
1256	0.198	0.406	11	38708.7513
1261	-0.104	0.051	11	38708.7647
1303	0.162	0.355	11	38751.6959
1311	-0.004	0.258	11	38751.7728
1320	-0.853	-0.198	11	38751.7828
1409	0.188	0.336	11	38705.8970
1411	0.064	0.303	11	38705.9095
1411	0.097	0.325	11	38752.7685
1411	0.093	0.330	11	38786.6846
1412	-0.031	0.057	11	38752.7797
1412	-0.000	0.148	11	38786.6943
1601	0.596	0.487	11	38705.9386
1605	0.519	0.606	11	38702.8908
1605	0.551	0.616	11	38704.8595
1605	0.621	0.660	11	38751.7232
1605	0.578	0.591	11	38752.7340
1605	0.522	0.551	11	38789.6306
1605	0.659	0.705	11	38791.6453
1620	0.020	0.080	11	38752.7921
1620	0.066	0.117	11	38791.6813
1666	0.065	0.127	11	38786.7321
1666	0.030	0.139	11	38791.6920
1713	-0.932	-0.195	11	38751.7091
1713	-0.913	-0.116	11	38752.7569
1713	-0.935	-0.210	11	38764.7124
1726	0.511	0.507	11	38751.8007
1729	-0.365	0.077	11	38751.8145
1770	-1.239	-0.305	11	38705.9548
1788	-1.345	-0.294	11	38708.9013
1788	-1.347	-0.339	11	38787.7300
1790	-1.276	-0.285	11	38708.9258
1810	-1.082	-0.280	11	38708.9682
1855	-1.467	-0.365	11	38705.7684
1855	-1.456	-0.369	11	38705.9267
1855	-1.469	-0.387	11	38708.7395
1855	-1.567	-0.402	11	38708.9148
1855	-1.487	-0.384	11	38751.6584
1855	-1.467	-0.355	11	38752.6542
1855	-1.467	-0.361	11	38752.7440
1855	-1.482	-0.343	11	38764.6973
1855	-1.458	-0.349	11	38787.7071
1855	-1.490	-0.378	11	38789.6679
1855	-1.462	-0.373	11	38839.7055
1876	-1.367	-0.313	11	38752.8169
2061	1.077	0.774	11	38786.7867
2061	1.167	0.832	11	38787.7580
2061	1.254	0.857	11	38789.6415
2061	1.318	0.990	11	38791.6713
2084	-1.319	-0.294	11	38705.9791
2084	-1.285	-0.288	11	38789.6551
2095	-0.256	-0.013	11	38752.8287
2095	-0.232	0.001	11	38789.6823
2124	-0.077	0.043	11	38705.9897
2124	-0.045	0.062	11	38789.6943
2134	-0.084	0.177	11	38705.9993
2134	-0.068	0.155	11	38789.7049
2298	-0.100	0.059	11	38787.7462
2650	0.148	0.312	11	38786.7475
2650	0.241	0.396	11	38789.7809
2650	0.191	0.397	11	38791.7027
2650	0.174	0.361	11	38839.6486
2697	0.560	0.471	11	38752.8846
2777	-0.098	0.148	11	38786.7596
2777	-0.144	0.088	11	38787.7752
2777	-0.219	0.076	11	38791.7354
2845	-0.420	-0.086	11	38751.8879
2845	-0.440	-0.123	11	38789.7939
2852	-0.299	0.030	11	38751.6712
2852	-0.309	0.081	11	38751.8990
2852	-0.299	0.054	11	38752.6659
2852	-0.277	0.068	11	38791.7484
2854	0.600	0.550	11	38751.9112
2854	0.594	0.490	11	38789.8044
2864	0.521	0.516	11	38752.8957
2891	-0.140	0.013	11	38702.8237
2891	-0.173	0.005	11	38702.8992
2891	-0.059	0.060	11	38704.7779
2891	-0.151	-0.007	11	38704.8679
2891	-0.172	-0.012	11	38704.9049
2891	-0.170	-0.004	11	38704.9397
2891	-0.156	-0.008	11	38704.9562
2891	-0.128	0.010	11	38705.8427
2891	-0.147	0.018	11	38706.0095
2891	-0.156	0.016	11	38708.8112
2891	-0.153	-0.029	11	38787.7962
2891	-0.095	-0.009	11	38791.7137
2891	-0.149	-0.003	11	38837.6901
2891	-0.138	-0.013	11	38839.6201
2891	-0.141	0.008	11	38865.6458
2891	-0.166	-0.022	11	38866.6275
2973	0.337	0.419	11	38786.7737
2973	0.187	0.313	11	38791.7596
2990	0.187	0.330	11	38702.8320
2990	0.175	0.339	11	38702.9068
2990	0.163	0.335	11	38702.9527
2990	0.249	0.356	11	38704.7868
2990	0.173	0.332	11	38704.8763
2990	0.193	0.338	11	38704.9129
2990	0.169	0.323	11	38704.9480
2990	0.190	0.346	11	38704.9643
2990	0.209	0.372	11	38708.8017
2990	0.142	0.310	11	38786.7990
2990	0.170	0.323	11	38787.7690
2990	0.174	0.328	11	38837.6986
2990	0.201	0.342	11	38839.6589
2990	0.190	0.345	11	38865.6576
2990	0.191	0.347	11	38866.6450
2990	0.174	0.332	11	38868.6483
2990	0.188	0.324	11	38869.6321

TABLE 9 DATA FOR .365 μ FILTER

B.S.	33-40	33-36	WT	J.D.
3145	0.480	0.487	11	38752.9110
3249	0.817	0.565	11	38751.9261
3249	0.816	0.589	11	38752.9330
3249	0.788	0.549	11	38786.8110
3249	0.782	0.571	11	38787.8080
3249	0.865	0.631	11	38791.7730
3249	0.816	0.573	11	38839.7171
3410	-0.059	-0.046	11	38786.8228
3410	-0.056	-0.020	11	38787.8208
3410	-0.031	0.077	11	38791.7925
3454	-1.038	-0.259	11	38751.9374
3454	-1.048	-0.247	11	38752.9556
3454	-1.112	-0.270	11	38789.8182
3454	-1.069	-0.275	11	38791.7827
3492	-0.130	0.036	11	38752.9220
3492	-0.141	-0.088	11	38786.8339
3492	-0.081	0.054	11	38791.8113
3594	0.058	0.106	11	38839.6699
3612	0.192	0.365	11	38752.9448
3619	-0.136	0.064	11	38839.6794
3662	-0.107	0.049	11	38839.6915
3787	0.095	0.124	11	38751.9485
3787	0.106	0.124	11	38789.8280
3787	0.092	0.143	11	38791.8218
3799	0.009	0.092	11	38791.8331
3800	0.079	0.322	11	38751.9604
3800	0.063	0.325	11	38752.9672
3800	0.005	0.276	11	38837.7100
3809	0.137	0.338	11	38837.7194
3815	-0.198	0.124	11	38837.7285
3970	-0.405	-0.044	11	38869.6480
3974	-0.162	0.028	11	38752.9785
3974	-0.106	0.067	11	38791.8553
3975	-0.145	0.167	11	38786.8682
3975	-0.183	0.097	11	38791.9091
3980	0.826	0.577	11	38839.7296
3980	0.806	0.593	11	38869.6644
3981	-0.098	0.049	11	38752.9909
3981	-0.096	0.025	11	38789.8402
3982	-0.510	-0.114	11	38839.7402
3994	0.215	0.395	11	38869.6816
4031	0.095	0.195	11	38839.7494
4033	-0.016	0.035	11	38871.6529
4054	-0.356	0.058	11	38839.7712
4057	0.301	0.413	11	38839.7586
4069	0.928	0.626	11	38866.6636
4072	-0.275	-0.036	11	38866.6862
4090	-0.015	0.098	11	38871.6659
4094	0.859	0.639	11	38871.6835
4100	-0.010	0.225	11	38871.6975
4112	-0.454	0.029	11	38871.7270
4119	-0.743	-0.174	11	38789.8507
4119	-0.765	-0.149	11	38791.9196
4132	-0.126	0.054	11	38865.6781
4133	-1.332	-0.289	11	38865.6868
4259	0.038	0.116	11	38791.9304
4310	-0.191	0.081	11	38786.9049
4310	-0.192	0.084	11	38787.9000
4310	-0.215	0.058	11	38791.9412
4368	0.130	0.239	11	38789.8635
4386	-0.103	0.033	11	38786.9159
4392	0.205	0.373	11	38865.7012
4399	-0.172	0.095	11	38789.9421
4456	-0.946	-0.222	11	38751.8559
4456	-0.954	-0.253	11	38752.8532
4456	-0.973	-0.257	11	38753.0011
4456	-0.954	-0.208	11	38789.7682
4456	-0.945	-0.289	11	38789.9767
4456	-0.979	-0.304	11	38791.8983
4471	0.140	0.314	11	38866.7148
4496	-0.257	0.125	11	38786.8807
4496	-0.323	0.034	11	38787.9240
4496	-0.318	0.107	11	38791.8436
4496	-0.330	0.069	11	38865.7116
4496	-0.313	0.047	11	38866.7331
4517	0.960	0.715	11	38866.7525
4534	-0.113	-0.015	11	38786.8940
4534	-0.067	0.031	11	38787.8682
4534	-0.081	0.034	11	38791.8868
4534	-0.072	0.048	11	38869.6174
4534	-0.108	-0.010	11	38869.7601
4534	-0.124	-0.020	11	38870.7822
4534	-0.082	0.054	11	38870.8495
4534	-0.091	0.033	11	38871.6379
4534	-0.084	0.017	11	38871.7125
4540	-0.358	0.046	11	38786.9283
4540	-0.356	0.066	11	38787.9122
4540	-0.302	0.114	11	38789.9464
4550	-0.393	0.091	11	38752.8409
4550	-0.383	0.110	11	38789.7553
4550	-0.381	0.094	11	38789.9296
4589	0.113	0.616	11	38789.9663
4608	0.001	0.281	11	38865.7372
4660	-0.042	0.058	11	38865.7473
4662	-0.502	-0.040	11	38869.7160
4689	0.056	0.068	11	38786.9394
4689	0.024	0.056	11	38787.9358
4689	0.022	0.078	11	38789.9885
4689	0.038	0.030	11	38791.9599
4695	0.527	0.529	11	38869.7323
4716	0.066	0.315	11	38865.7566
4737	0.408	0.429	11	38865.7660
4737	0.512	0.358	11	38868.7271
4785	-0.458	0.009	11	38868.7431
4825	-0.390	0.054	11	38786.9517
4825	-0.388	0.025	11	38787.9691
4825	-0.383	0.035	11	38789.9993
4825	-0.335	0.074	11	38791.9721
4932	0.135	0.334	11	38839.8682
4954	0.734	0.439	11	38866.7738
4963	-0.052	0.024	11	38866.7948
4983	-0.416	0.038	11	38869.7757
5017	-0.003	0.139	11	38869.7870
5019	-0.323	0.114	11	38871.7782
5095	1.077	0.742	11	38869.8052
5105	-0.108	0.050	11	38786.9866
5105	-0.111	0.017	11	38787.9795
5107	-0.071	-0.005	11	38787.9887
5112	-0.022	0.056	11	38870.8035
5127	-0.056	0.109	11	38871.8032
5235	-0.193	0.159	11	38786.9748
5235	-0.201	0.120	11	38787.9468
5235	-0.241	0.117	11	38789.9140
5235	-0.229	0.108	11	38791.9816
5235	-0.235	0.134	11	38865.7877
5235	-0.243	0.116	11	38865.8884
5235	-0.232	0.166	11	38869.7008
5235	-0.262	0.116	11	38869.8198
5235	-0.258	0.123	11	38871.7615
5264	0.122	0.065	11	38787.0096
5264	0.088	0.131	11	38787.9996
5291	-0.089	0.049	11	38865.7964
5299	1.281	0.976	11	38865.8062
5304	-0.385	0.033	11	38870.8198
5313	-0.662	-0.165	11	38871.8200
5340	0.580	0.549	11	38871.9099
5429	0.626	0.506	11	38839.9019
5447	-0.434	0.008	11	38839.9201
5475	-0.522	-0.119	11	38870.8316
5477	-0.070	0.005	11	38869.8380
5487	-0.355	0.021	11	38788.0114
5490	1.121	6.449	11	38865.8508
5502	0.140	0.347	11	38865.8591
5505	0.113	0.221	11	38865.8684
5511	-0.091	0.050	11	38871.8376
5600	0.851	0.611	11	38839.9299
5601	0.208	0.350	11	38870.8686
5602	0.117	0.336	11	38839.9391
5616	0.512	0.473	11	38871.8557
5634	-0.437	0.005	11	38871.8692
5685	-0.480	-0.051	11	38787.0194
5685	-0.494	-0.062	11	38788.0207
5685	-0.527	-0.115	11	38790.0088
5685	-0.482	-0.081	11	38839.8016
5685	-0.478	-0.082	11	38839.9591
5735	0.291	0.268	11	38869.8564
5744	0.435	0.450	11	38869.8726
5778	-0.785	-0.194	11	38839.9492
5854	0.483	0.485	11	38791.9934
5854	0.481	0.447	11	38839.7922
5854	0.459	0.443	11	38839.9680
5901	0.182	0.286	11	38870.8842
5947	0.518	0.490	11	38839.9767
5971	-0.376	-0.098	11	38870.8970
5972	-0.051	0.029	11	38869.9079
5977	-0.359	0.074	11	38871.8864
6018	0.123	0.287	11	38870.9095
6092	-0.831	-0.215	11	38839.9855
6092	-0.847	-0.220	11	38865.8980
6093	-0.238	0.085	11	38865.9084

B.S.	33-40	33-36	WT	J.D.
6103	0.175	0.341	11	38865.9009
6146	2.070	1.579	11	38865.9266
6212	-0.347	0.092	11	38870.9227
6378	-0.012	0.089	11	38869.9394
6396	-0.618	-0.115	11	38865.9356
6418	0.732	0.549	11	38865.9439
6431	-1.080	-0.285	11	38869.9252
6436	-0.136	-0.015	11	38870.9488
6603	0.471	0.407	11	38839.8785
6629	-0.073	-0.002	11	38839.8874
6869	0.021	0.251	11	38704.6064
6869	0.078	0.437	11	38865.8274
6869	0.046	0.315	11	38865.9524
7001	-0.095	-0.023	11	38869.9563
7056	-0.032	0.097	11	38869.9721
7178	0.018	0.125	11	38865.9616
7178	0.021	0.087	11	38869.8946
7178	0.049	0.147	11	38869.9888
7178	0.006	0.105	11	38870.9363
7178	-0.001	0.107	11	38870.9782
7178	0.026	0.134	11	38871.9253
7328	0.117	0.277	11	38870.0064
7557	-0.134	0.085	11	38871.9405
7570	0.225	0.410	11	38871.9573
7592	-0.272	0.013	11	38871.9733
7710	-0.213	0.013	11	38870.9641
7924	-0.151	0.235	11	38641.7838
7924	-0.143	0.207	11	38751.5875
7924	-0.204	0.167	11	38752.5681
7924	-0.128	0.278	11	38764.5908
7949	0.214	0.357	11	38641.7932
8115	0.064	0.272	11	38689.6712
8414	0.139	0.328	11	38705.6151
8418	-0.496	-0.123	11	38705.6338
8430	-0.395	0.031	11	38705.5964
8450	-0.027	0.053	11	38705.6460
8622	-1.493	-0.363	11	38702.5996
8622	-1.498	-0.370	11	38702.6539
8622	-1.495	-0.366	11	38702.7189
8622	-1.474	-0.371	11	38704.6203
8622	-1.466	-0.362	11	38704.6916
8622	-1.501	-0.367	11	38704.7960
8622	-1.453	-0.365	11	38705.6726
8634	-0.366	-0.075	11	38705.6867
8684	0.053	0.275	11	38689.6854
8762	-0.809	-0.188	11	38705.6986
8762	-0.778	-0.159	11	38752.6025
8773	-0.773	-0.178	11	38752.6131
8781	-0.092	0.009	11	38689.6945
8797	-1.270	-0.242	11	38870.9993
8880	0.005	0.094	11	38705.7109
8969	-0.450	0.035	11	38702.6102
8969	-0.461	0.033	11	38702.6678
8969	-0.445	0.041	11	38702.7312
8969	-0.372	0.039	11	38702.8440
8969	-0.431	0.047	11	38704.6293
8969	-0.434	0.028	11	38704.7014
8969	-0.469	0.024	11	38704.8113