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No. 63 UBVRIJKL PHOTOMETRY OF THE BRIGHT STARS

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ABSTRACT

We present here the results of our multicolor photometric work on the bright stars. Of the stars listed in the *Catalogue of Bright Stars,* we have observed 1567 in U, B, V, R, and I; 653 in J and K; and 268 in L. Comparisons of our new UBV measures with previously published data on the same system indicate that the quality of our data is high. We have found it possible to make a very accurate transformation of the southern Cape photometry to the UBV system; for this reason, we give here a catalog of UBV photometry on nearly 5000 bright stars over the entire sky.

1. Introduction

During the past four years we have been making multicolor photometric observations, over as wide a range of wavelength as possible, of the bright stars. This publication contains the results of our work in eight broad wavelength bands ranging in effective wavelength from 0.36 μ in the ultraviolet to 3.4 μ in the infrared—a 10 to 1 range in wavelength. Most of the observations were made with the 21-in., 28-in., and 60-in. photometric telescopes of LPL, but an important minority were made with the 40-in. telescope of the Observatorio Astronómico Nacional, Universidad Nacional de México. This has been a joint project between LPL and the Tonantzintla Observatory (site of the 40-in. Mexican telescope), with major financial support (through grants to the University of Arizona) from the National Science Foundation, the Office of Naval Research, and the National Aeronautics and Space Administration. Without the financial support of these federal agencies, this project would not have been possible.

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2. The Observations

The observations were taken with the apparatus described by Johnson and Mitchell (1962) or improvements thereof. The most important modification of the apparatus since 1962 was the substitution of a very sensitive PbS cell for the InSb cell that was used for the initial work (Johnson 1962*a*). All reductions of the observational data were made by electronic computers, using the programs described by Johnson and Mitchell (1962).

The photometric system is that defined by Johnson (1964) and Iriarte, Johnson, Mitchell, and Wiśniewski (1965). The filter bands and their effective wavelengths are listed in Table 1. Details of the individual response functions and the absolute calibration of the system have already been published (Johnson 1965*a*, 1965*b*). Although we have also observed many fainter stars, this *Communication* is restricted to stars contained in the *Catalogue of Bright Stars* (Hoffleit 1964). Of the stars listed in

TABLE 1
THE EFFECTIVE WAVELENGTHS

FILTER BAND	λ_0	FILTER BAND	λ_0
U	0.36μ	I	0.90μ
B	0.44	J	1.25
V	0.55	K	2.2
R	0.70	L	3.4

the *Catalogue*, we have observed 1567 in U, B, V, R, and I; 653 in J and K; and 268 in L.

Our eight-color photometric data are given in Table 2, the first column of which contains the numbers of the stars in the Bright Star Catalogue, the second through ninth, the photometric data, and the tenth, the spectral types. These spectral types have been carefully selected after reference to many sources, the principal ones being the Bright Star Catalogue and the "Catalogue of Stellar Spectra Classified in the Morgan-Keenan System" (Jaschek, Conde, and Sierra 1964). In some cases we have entered in the spectral-type column a rather subjective mean of several nearly identical types, rather than selecting only one. Spectral types by W. W. Morgan, where available, were preferred over all others. The eleventh, twelfth, and thirteenth columns of Table 2 contain the numbers of the individual observations of V, R, and K; the number in the last column refers to the source of the data, which is given in Table 3.

Table 2 contains our estimate of the best mean values obtainable from our data and previously published data. It does not, however, contain all of the information that can be derived from our observations; for example, the date and time of observation are not contained therein. In order to make possible the extraction of the maximum amount of information from our observational data, we include in Tables 4, 5, 6, and 7 all of the individual observations we made during this four-year program, along with the air masses and Julian Dates of the observations. Table 4 contains the UBVRI photometry obtained at the Catalina Station of LPL; Table 5 contains additional RI Catalina photometry; Table 6, the BVRI and UBV photometry obtained at the Tonantzintla Observatory; and Table 7, the IJKL photometry obtained at both observatories. The IJKL photometry was taken using two different photometers, the IJK photometer and the JKL photometer. As the names indicate, the IJK photometer measures magnitudes I, J, and K, while the JKL measures magnitudes J, K, and L. The I magnitudes that can be derived from Table 7 are nearly, but not exactly, identical to those from Tables 4, 5, and 6; the I magnitudes from Table 7, with few exceptions, were not used in the construction of Table 2.

Not all of the numbers printed in Tables 4, 5, 6, and 7 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 last column of these tables contains numbers that refer to the reduction procedures: "4" indicates that enough standard and extinction stars were observed that night to derive both extinction coefficients and systemic transformations; "3" indicates that the extinction coefficient and zero-point transformation were determined, and a mean color

TABLE 3
PHOTOMETRY SOURCES

Source 1 All stars in Table 4. In addition, published UBV from the following sources has been included:

Group A

Harris 1955, 1956; Hoag *et al.* 1961; Johnson 1952, 1953, 1955, 1957, 1962*b*; Johnson and Gardiner 1955; Johnson and Harris 1954; Johnson and Knuckles 1955, 1957; Johnson and Mitchell 1958; Johnson, Mitchell, and Iriarte 1962; Johnson and Morgan 1953, 1955*a*, 1955*b*; Mitchell 1960; Roman 1955.

Group B

Hiltner 1956; Hiltner and Johnson 1956; Johnson and Hiltner 1956; Naur 1955; Serkowsky 1961.

Source 2 Stars observed at Tonantzintla (Table 6) combined with published UBV from:
Cape Royal Observatory 1964; Cousins and Stoy 1963.

Source 3 RI from sources listed below combined with UBV from Source 1.
Breckinridge and Kron 1964*a*, 1964*b*; Kron and Gascoigne 1953; Kron, Gascoigne, and White 1957; Kron, White, and Gascoigne 1953.

Source 4 RI from Source 3 combined with UBV from Source 2.

coefficient was assumed; "2" indicates that it was not possible to derive an extinction coefficient (a mean value was assumed), but that systemic transformations were derived; "1" indicates that neither extinction coefficients nor systemic transformations were derived, and that only the zero-points in the transformation equations to the standard system were derived from the standard star observations on that night. Thus, the quality of the nights is indicated by these numbers.

A few stars, for example, 10 Lacertae (B. S. 8622), are so faint in magnitude L that it is difficult to obtain accurate measures. The mean values of K−L that were used to derive the values of V−L in Table 2 include our estimates (not given in Table 7) of the weights of the individual observations. For this reason, a straight mean of the K−L values in Table 7 may not in all cases be identical with the values from Table 2.

3. *The Quality of the Data*

The UBVRI photometer at the Catalina Station contains, in the UBV section, the same 1P21 photomultiplier and the same filters that were used for the original definition of the UBV system (Johnson and Morgan 1953), and the new UBV data should be very nearly on the original system. Many data taken with the same 1P21 and filters have already been published; these are listed under Source 1 Group A of Table 3. Other published data (Source 1 Group B) were taken with a photomultiplier and filters that yielded a photometric system indistinguishable from the original UBV system. These published data provide an excellent comparison list to check the quality of our Catalina data. The differences — Catalina *minus* Published — are shown in Figure 1 as a function of B−V; in Figure 2 as a function of U−B; in Figure 3 as a function of declination; and in Figure 4 as a function of the Bright Star Catalogue number (and, therefore, of right ascension). Figures 1 and 2 show that the new UBV data are on a system that is practically identical with the original one. Figure 3 shows that there are no systematic differences correlated with declination between the two lists, except that a small declination difference does appear to exist in the V magnitudes. Figure 4 shows that there are no systematic differences correlated with right ascension between the two lists. The UBV data in Table 2 are the weighted means (weighted according to the number of observations) of the Catalina and the Published data. We cannot establish which of the two lists contains the small declination error in V indicated in Figure 3 (we believe it more likely that it is in the Published data, rather than in the Catalina data), and we have, therefore, taken the means without correction of either list. These mean values comprise our "Prime" list of UBV data.

The observers at the Cape of Good Hope, South Africa (Cape Royal Observatory 1964; Cousins and Stoy 1963), have made many observations which they have transformed to the UBV system; furthermore, their data cover the entire southern sky that is not accessible from either Arizona or Mexico, as well as a considerable overlap with us. The comparisons of the Cape published data and our Prime list are shown in Figure 5 as a function of B−V, for the declination zone from +10° to −10°. Some small differences between the Cape UBV data and ours are indicated by Figure 5, and the appropriate corrections to be added to transform their data to our UBV system are as follows:

$$\Delta V = +0.007$$

$$B-V < +0.3$$
$$\Delta(B-V) = +0.002 - 0.034\,(B-V)_C;$$
$$\Delta(U-B) = -0.001 + 0.096\,(B-V)_C.$$

$$+0.3 < B-V < +1.0$$
$$\Delta(B-V) = -0.013 + 0.018\,(B-V)_C;$$
$$\Delta(U-B) = +0.043 - 0.051\,(B-V)_C.$$

$$B-V > +1.0$$
$$\Delta(B-V) = +0.017 - 0.012\,(B-V)_C;$$
$$\Delta(U-B) = -0.026 + 0.018\,(B-V)_C.$$

If $(U-B)_C < -0.5$, an additional correction to be added is $\Delta(U-B) = -0.018 - 0.038\,(U-B)$. The largest correction is that to $(U-B)_C$; a check of the quality of the corrected Cape U−B values is shown in Figure 6. Checks of the quality of all three are shown in Figure 7. (We were unable to find a satisfactory transformation for the Cape refractor ultraviolet observations, and only their reflector ultraviolet data are included in this discussion.) The differences between the Prime list and the corrected Cape data are shown in Figure 8 as a function of declination and in Figure 9 as a function of the Bright Star Catalogue number. These diagrams indicate that for B−V and U−B, there are no significant systematic differences between the two lists. For V there may be some small declination or right ascension differences; for example, a systematic difference in V magnitude appears between B. S. 6000 and 8500 — a difference that does not appear between the Catalina and Published UBV data (cf. Fig. 4).

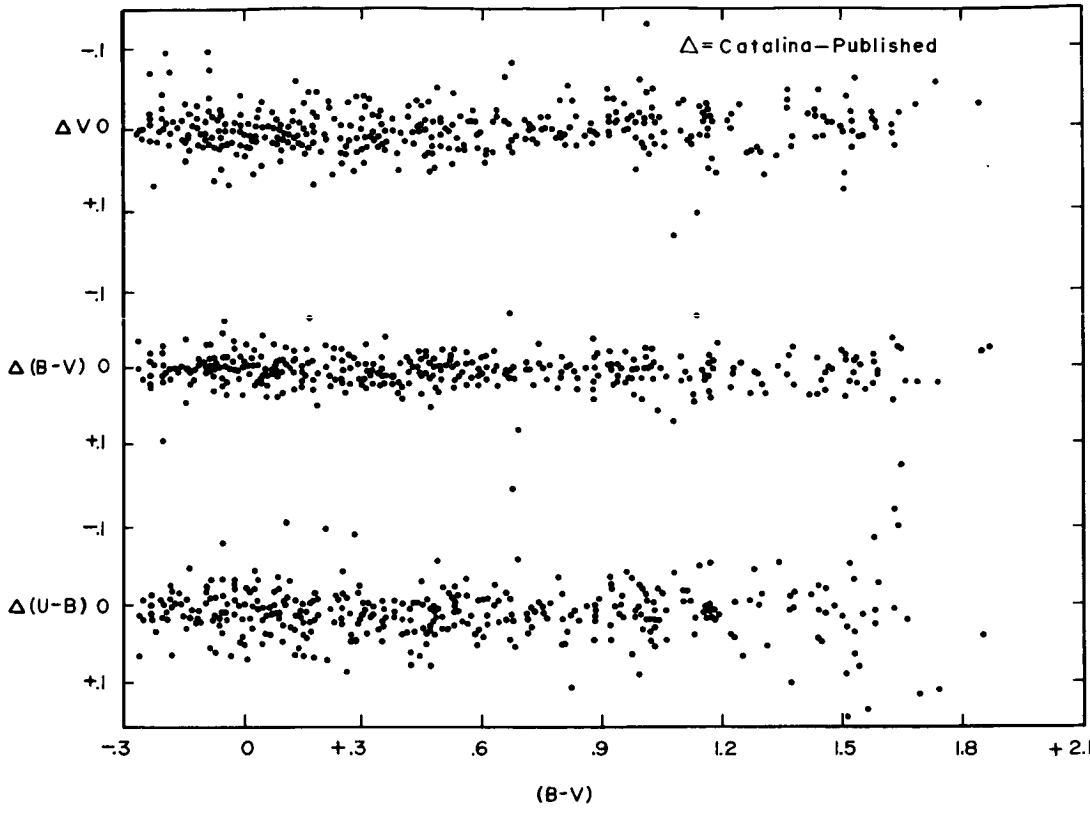

Fig. 1 The comparison of the Catalina and the Published UBV photometry as a function of B—V.

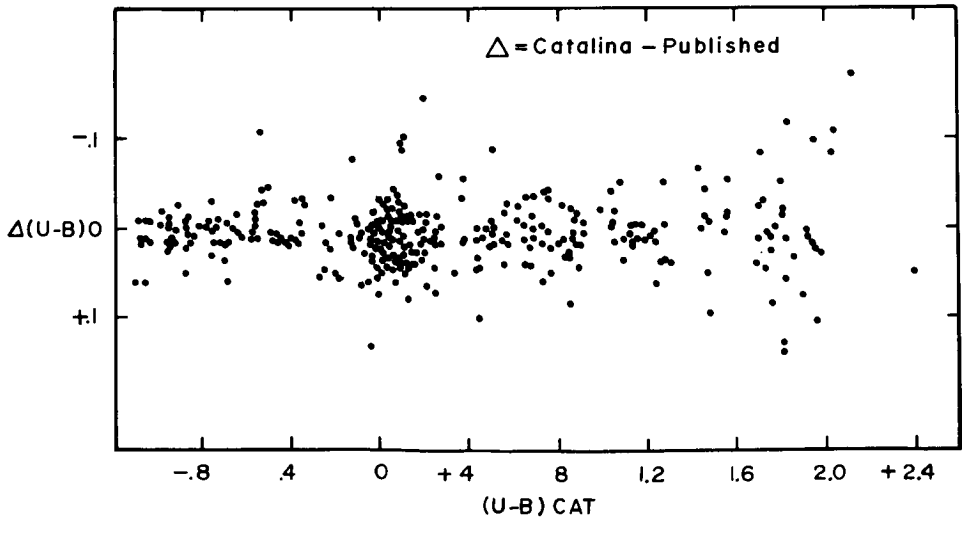

Fig. 2 The comparison of the Catalina and the Published U—B colors.

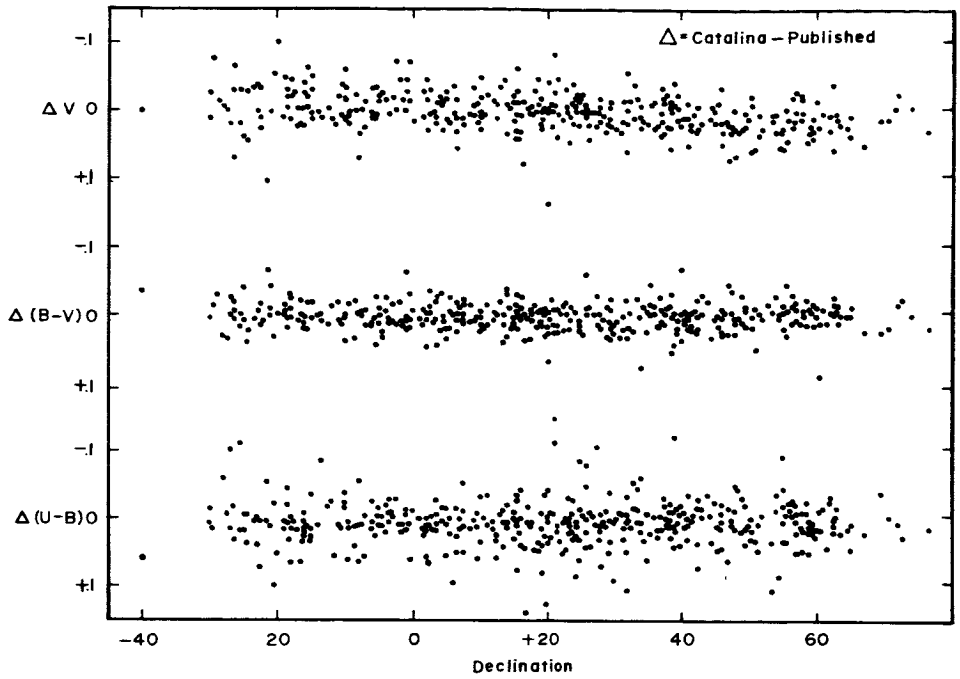

Fig. 3 The comparison of the Catalina and the Published UBV photometry as a function of declination.

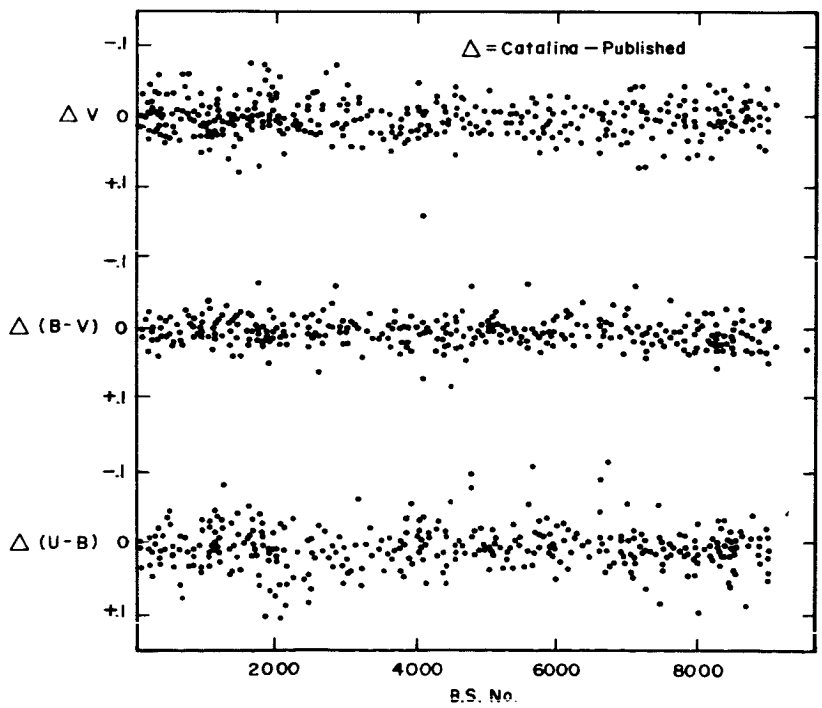

Fig. 4 The comparison of the Catalina and the Published UBV photometry as a function of Bright Star Catalogue number (and therefore of right ascension).

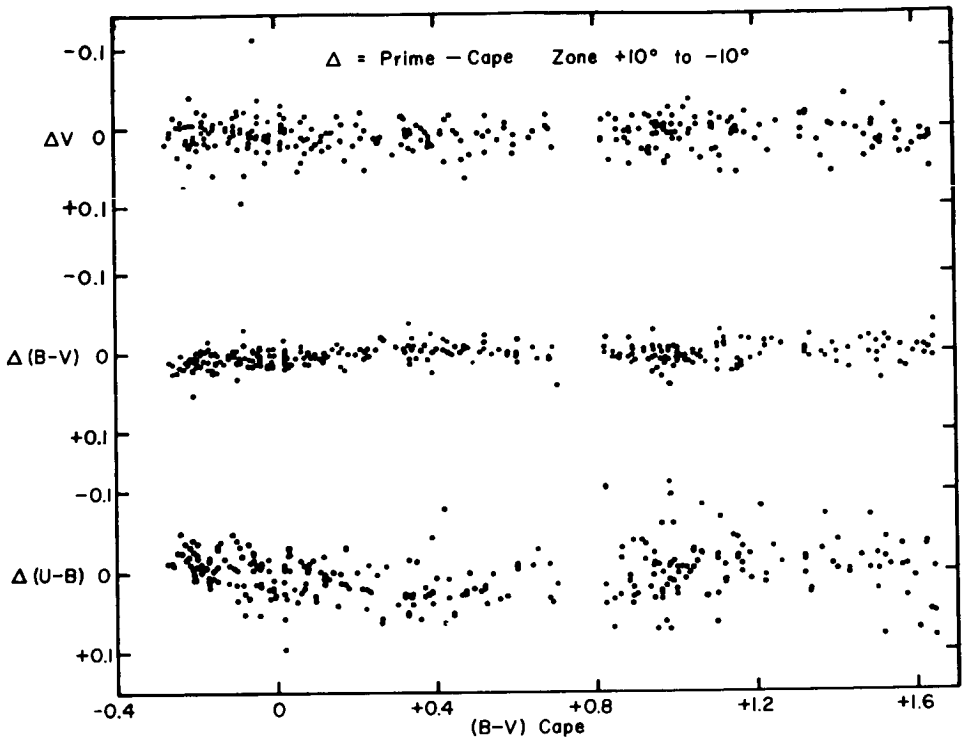

Fig. 5 The comparison of the Prime and the Cape UBV photometry for the declination zone from +10° to −10°.

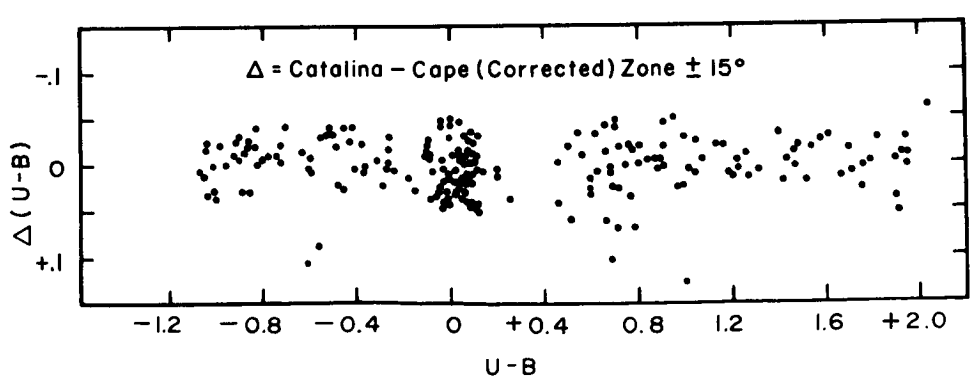

Fig. 6 The comparison of the Prime and the corrected Cape U—B colors for the equatorial zone.

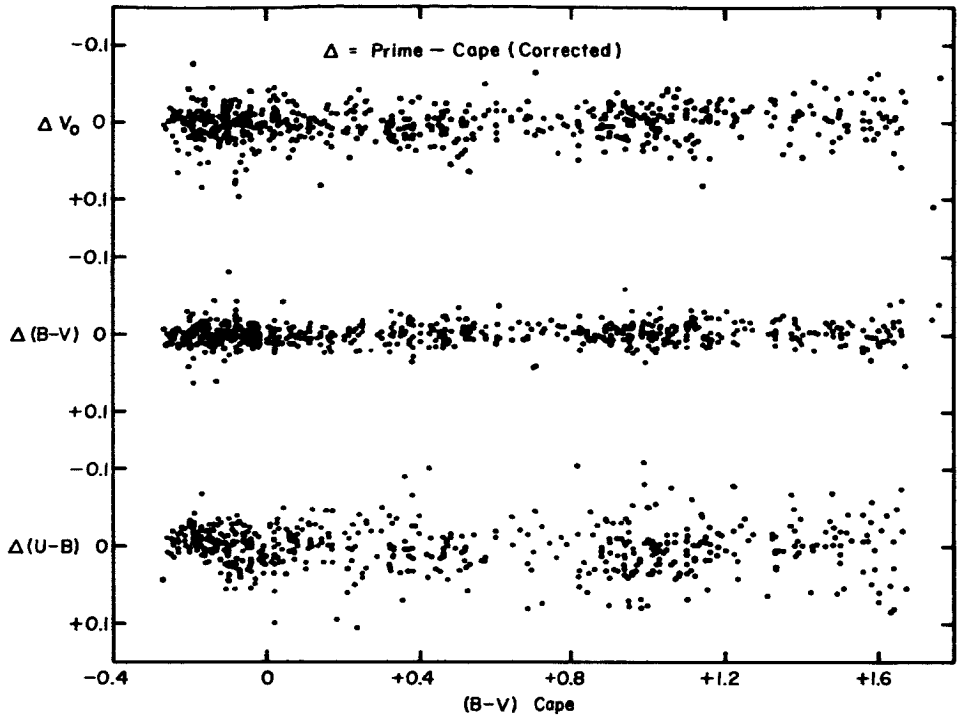

Fig. 7 The comparison of the Prime and the corrected Cape UBV photometry as a function of B−V.

The declination-dependent difference in V between the Catalina and Published UBV data (cf. Fig. 3) seems not to exist between the Prime and the Cape (corrected) lists.

Figure 10 compares the Prime list with the Tonantzintla data of Table 6; this comparison includes V−R and R−I. The comparison of the Tonantzintla and Cape B−V colors is shown in Figure 11. The comparisons are satisfactory, except that a small difference in B−V (less than 0.02 mag) appears in Figure 10; however, this difference does not appear in the comparison with the Cape photometry. The sky transparency at Tonantzintla is more variable than at the Catalina Station, and we prefer to suppress the Tonantzintla V magnitudes except for stars for which none are available from either Catalina or Cape data. Therefore, Cape or Catalina magnitudes have been substituted in Table 2 for all Tonantzintla-observed stars, except for those observed only at Tonantzintla. All observed Tonantzintla V magnitudes are, however, given in Table 6.

The comparisons of our R magnitudes and R−I colors with those of Kron, Gascoigne, and White (1957) are shown in Figures 12 and 13. The transformations indicated by these two figures were used to provide R and I data in Table 2 for a few stars that we did not observe in these filters.

The estimated probable errors of our data are given in Table 8. These estimates are based on the internal agreement of the data in Tables 4, 5, 6, and 7 and on the external errors indicated by Figures 1 through 11.

4. UBV Photometry for the Entire Sky

The combination of our new UBV photometry, our previously published photometry, and the published Cape photometry (corrected as indicated above) makes it possible to give a single list of UBV

TABLE 8

PROBABLE ERROR OF A SINGLE OBSERVATION AT 1.0 AIR MASS

V	B−V	U−B	V−R	R−I	For K < 4.0 mag		
					K	J−K	K−L
±0.015	±0.011	±0.016	±0.018	±0.010	±0.030	±0.025	±0.035

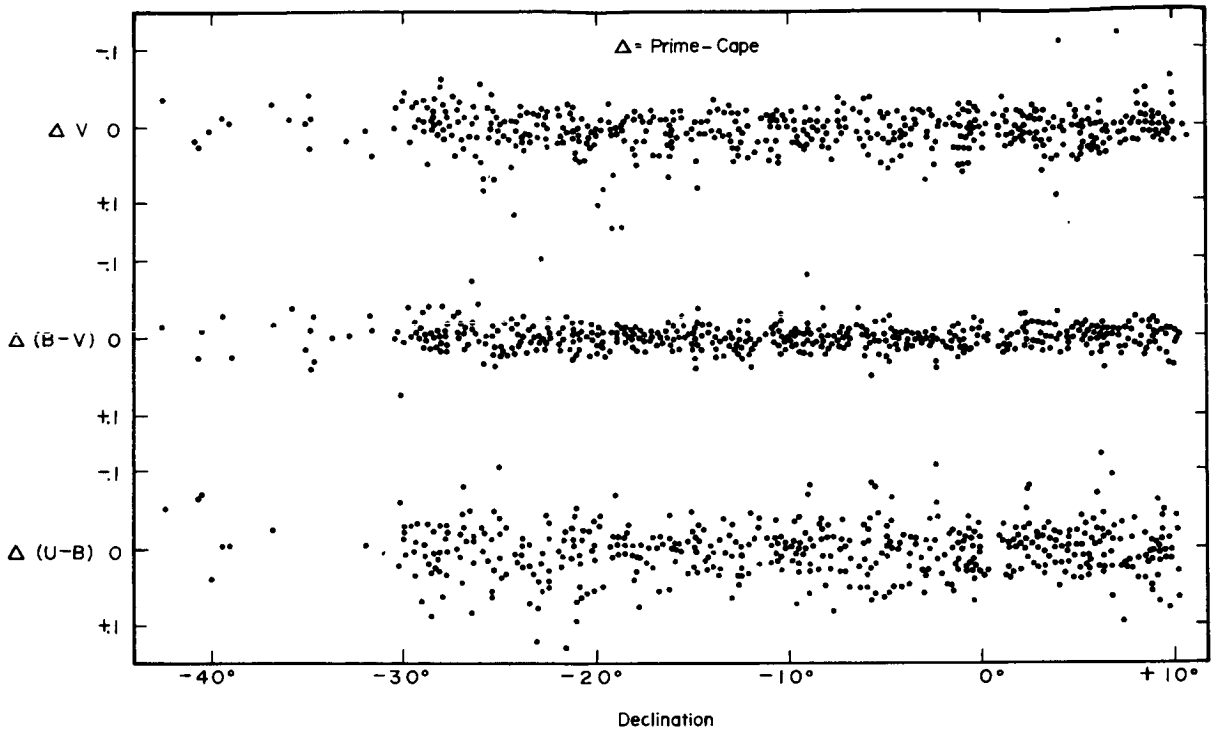

Fig. 8 The comparison of the Prime and the corrected Cape UBV photometry as a function of declination.

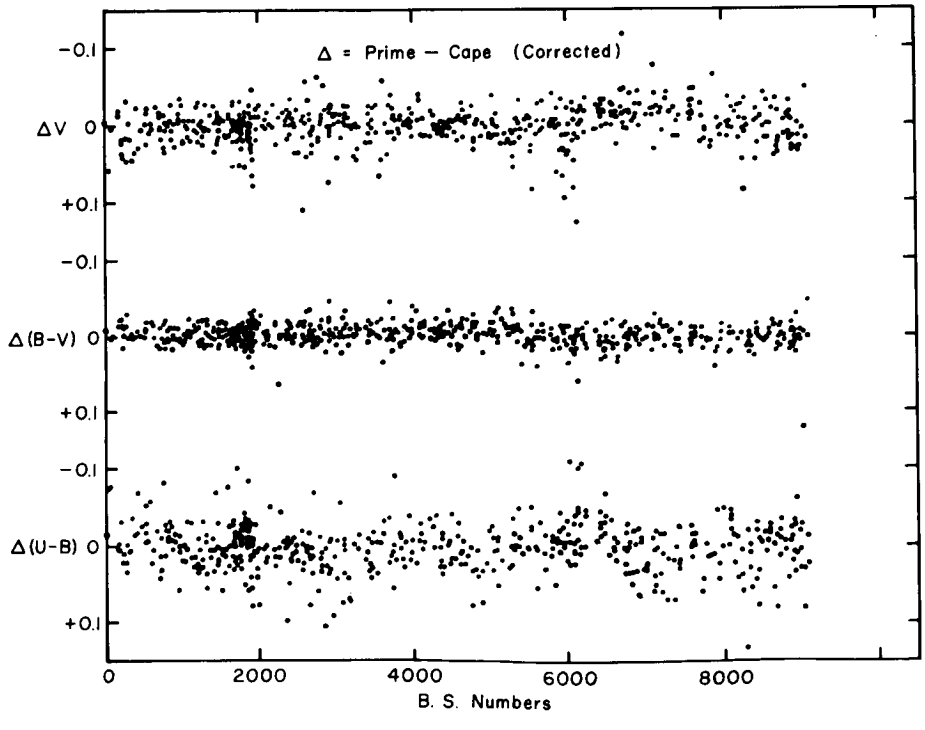

Fig. 9 The comparison of the Prime and the corrected Cape UBV photometry as a function of Bright Star Catalogue number (and therefore of right ascension).

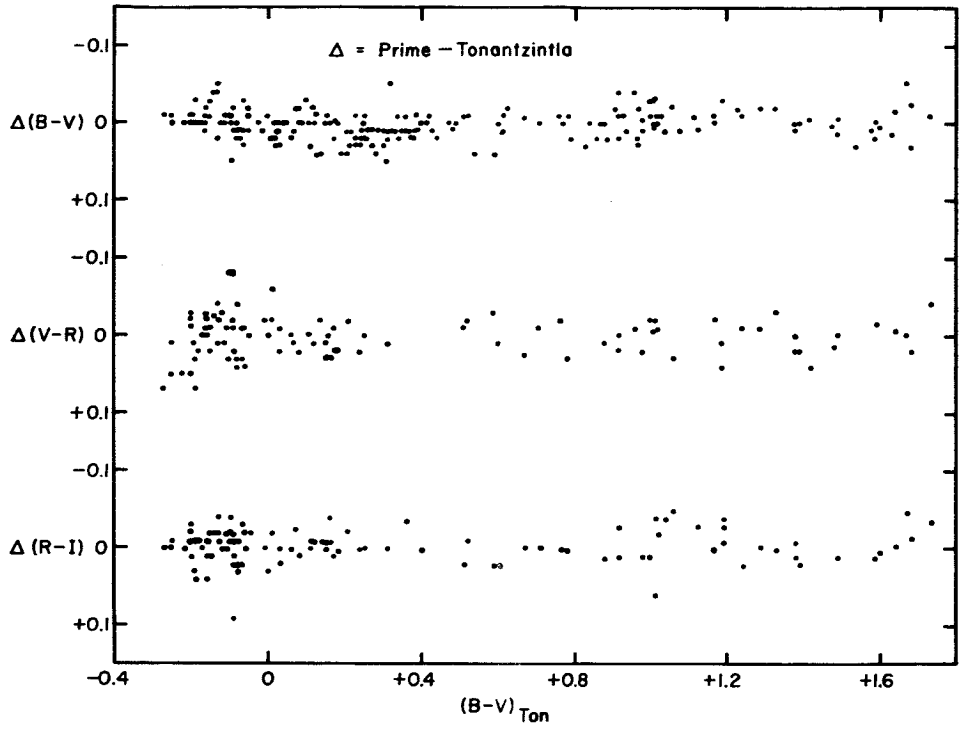

Fig. 10 The comparison of the Prime and the Tonantzintla BVRI photometry as a function of B—V.

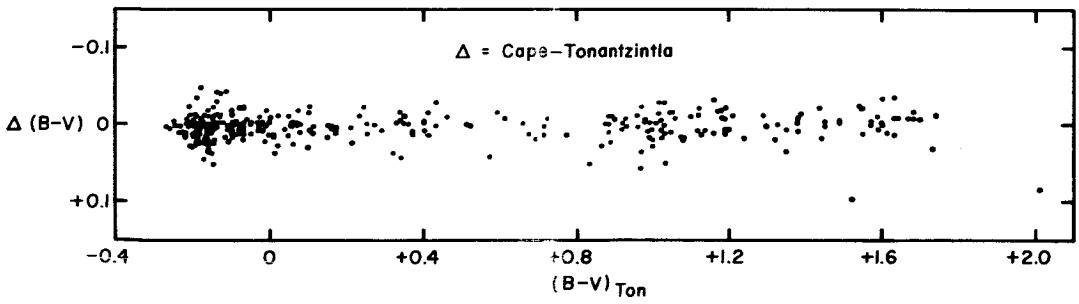

Fig. 11 The comparison of the Cape and the Tonantzintla B—V colors.

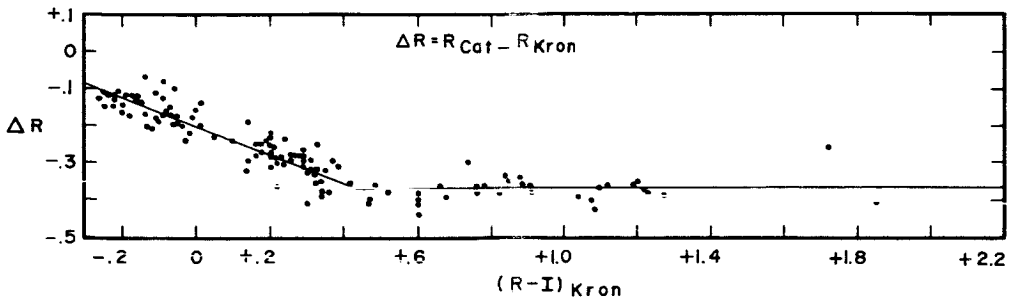

Fig. 12 The comparison of the Catalina R magnitudes with those of Kron and his collaborators.

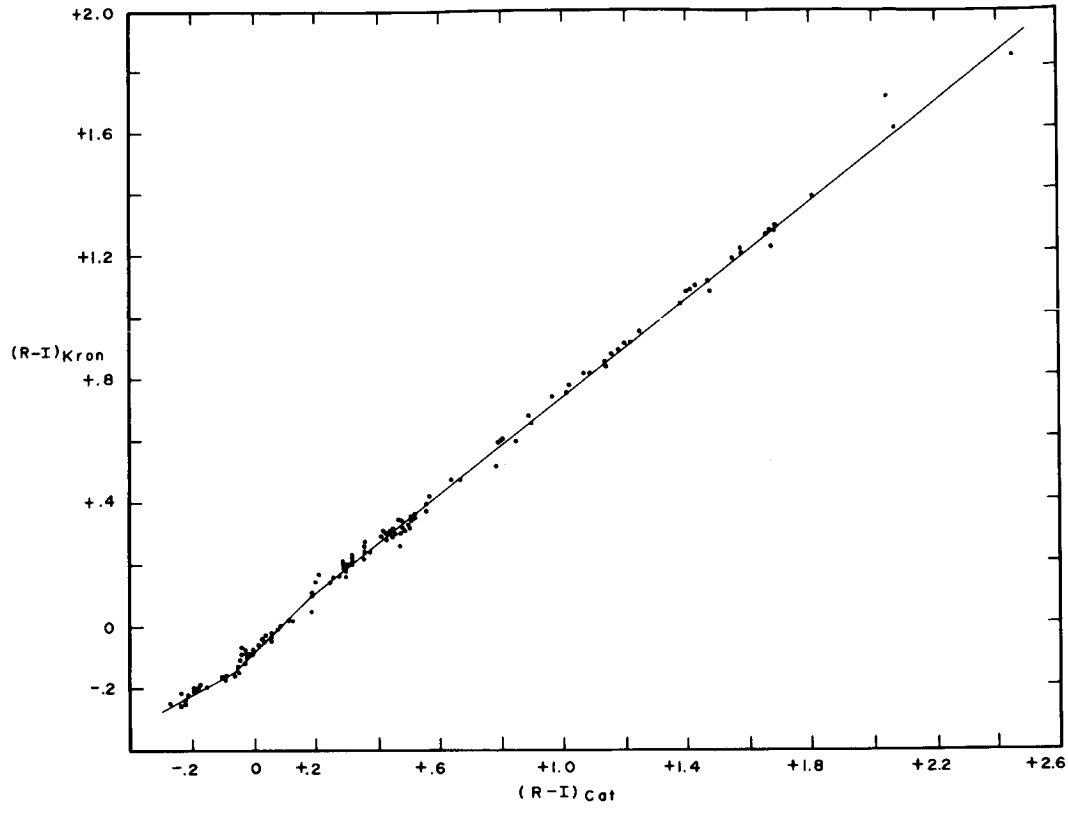

Fig. 13 The comparison of the Catalina R—I colors with those of Kron and his collaborators.

photometry of bright stars for the entire sky. This list, whose quality is indicated by the comparisons shown in Figures 1 through 11, is given in Table 9. (As before, Tonantzintla V magnitudes have been entered only for stars not in the Catalina or Cape lists.) With the few exceptions noted, Cape data have been entered in Table 9 only for stars for which there are no Prime list data. We have, however, corrected the entire Cape list to the UBV system, and Table 10 gives the remaining corrected Cape data that were not used in the construction of Table 9. The "WT" column of Table 9 indicates the number of individual observations making up the mean (all numbers larger than 9 are indicated as 9). The "S" column indicates the source of the data: "1" indicates Prime list, and "2" indicates Cape or Tonantzintla data, as referenced in Table 3.

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Note added in proof. In a few cases in Tables 4, 5, 6, and 7, 0.000 was printed without zeros after the decimal.

NOTES ON STARS IN TABLES 2 AND 9

321 Seven new observations in UBV made by W. S. Fitch (unpublished).

472 Magnitude V was taken from the *Catalogue of Bright Stars.*

781 The V magnitude was averaged with Cape measures, and the colors were compared with Cape colors. The weight was doubled.

919 The Catalina U−B was corrected by adding

$$\Delta(U-B) = +0.03\ (\text{air mass} - 1.8)$$

for stars of type B8V to A5V observed at greater than 1.8 air mass.

977 Tonantzintla and Cape observations are discordant by 0.2 mag in V and B−V.

1084 L measure is InSb observation (Johnson 1964).

1457 α Tau; McDonald, Lowell, and Catalina observations give V range from +0.79 to +0.95 in 11 measures.

1605 ϵ Aur during eclipse, March 1956. V = 3.76, B−V = 0.56, U−B = 0.37, n = 3.

1657 Same as 781.

1673 Prime data, Source 1 (Table 3), has been averaged with Cape or Tonantzintla data, Source 2.

1744 Same as 472.

1746 Same as 1673.

1761 Catalina means given; Catalina observations are discordant with Cape and Sharpless (1952).

1863 Catalina means given; Catalina V are accordant with Sharpless (1962), but discordant with Cape.

2326 Magnitude checked by transforming magnitudes from Cape Mimeo #1. (Tonantzintla range 0.2 mag.)

2538 Same as 781.

2902 Same as 472.

2909 Same as 781.

3129 The V magnitude is the Harvard photovisual magnitude corrected by −0.09 mag to the V system.

3556 Same as 919.

4163 Mean values are taken from Mendoza and Johnson (1965).

4195 Same as 4163.

4251 Same as 781.

4314 Same as 1673.

4395 Same as 781.

5028 Same as 919.

5288 Same as 1673.

5686 Same as 1673.

6060 Same as 1673.

6070 Same as 919.

6406 Same as 1084.

6508 Same as 1673.

6580 Same as 781.

6647 Same as 1673.

6663 Same as 781.

8297 Same as 4163.

8521 Tonantzintla and Cape observations differ by 0.3 in V.

8597 Same as 919.

8641 Same as 919.

8709 Same as 919.

8728 Same as 919.

9016 Same as 919.

9091 Same as 1673.

Note: All bright cepheids except Polaris have been removed from the tables.

REFERENCES

Breckinridge, J. B. and Kron, G. E. 1964*a*, *IAU Agenda and Draft Reports*, p. 418.

———. 1964*b*, *Pub. A.S.P.*, **76**, 139.

Cape Royal Observatory. 1964, *Photoelectric Observations 1961-1963* (mimeo.).

Cousins, A. W. J., and Stoy, R. H. 1963, *Royal Obs. Bull.*, No. 64, E 103.

Harris, D. L. 1955, *Ap. J.*, **121**, 555.

———. 1956, *ibid.*, **123**, 371.

Hiltner, W. A. 1956, *Ap. J. Suppl.*, **24**, 389.

Hiltner, W. A., and Johnson, H. L. 1956, *Ap. J.*, **124**, 367.

Hoag, A. A., Johnson, H. L., Iriarte, B., Mitchell, R. I., Hallam, K. L., and Sharpless, S. 1961, *Pub. U.S. Naval Obs.*, Vol. 17, Part 7.

Hoffleit, D. 1964, *Catalogue of Bright Stars* (Yale University Observatory).

Iriarte, B., Johnson, H. L., Mitchell, R. I., and Wiśniewski, W. Z. 1965, *Sky and Tel.*, **30**, 21.

Jaschek, C., Conde, H., and Sierra, A. C. 1964, *Observatorio Astronomico de la Universidad Nacional de la Plata, Series Astronomica*, **28** (2).

Johnson, H. L. 1952, *Ap. J.*, **116**, 640.

———. 1953, *ibid.*, **117**, 361.

———. 1955, *Ann. d'ap.*, **18**, 292.

———. 1957, *Ap. J.*, **126**, 134.

———. 1962*a*, *ibid.*, **135**, 69.

———. 1962*b*, *ibid.*, **136**, 1135.

———. 1964, *Bol. Obs. Tonantzintla y Tacubaba*, **3**, 305.

———. 1965*a*, *Comm. L.P.L.*, **3**, 73.

———. 1965*b*, *Ap. J.*, **141**, 923.

Johnson, H. L., and Gardiner, A. J. 1955, *Pub. A.S.P.*, **67**, 74.

Johnson, H. L., and Harris, D. L. 1954, *Ap. J.*, **120**, 196.

Johnson, H. L., and Hiltner, W. A. 1956, *Ap. J.*, **123**, 267.
Johnson, H. L., and Knuckles, C. F. 1955, *Ap. J.*, **122**, 209.
———. 1957, *ibid.*, **126**, 113.
Johnson, H. L., and Mitchell, R. I. 1958, *Ap. J.*, **128**, 31.
———. 1962, *Comm. L.P.L.*, **1**, 73.
Johnson, H. L., Mitchell, R. I., and Iriarte, B. 1962, *Ap. J.*, **136**, 75.
Johnson, H. L., and Morgan, W. W. 1953, *Ap. J.*, **117**, 313.
———. 1955*a*, *ibid.*, **122**, 142.
———. 1955*b*, *ibid.*, **122**, 429.
Kron, G. E., and Gascoigne, S. C. 1953, *Ap. J.*, **118**, 511.
Kron, G. E., Gascoigne, S. C., and White, H. S. 1957, *A. J.*, **62**, 207.
Kron, G. E., White, H. S., and Gascoigne, S. C. 1953, *Ap. J.*, **118**, 502.
Mendoza, V., E. E., and Johnson, H. L. 1965, *Ap. J.*, **141**, 161.
Mitchell, R. I. 1960, *Ap. J.*, **132**, 68.
Naur, P. 1955, *Ap. J.*, **122**, 182.
Roman, N. 1955, *Ap. J. Suppl.*, **18**, 195.
Serkowsky, K. 1961, *Lowell Obs. Bull. No. 116*, **5**, 157.
Sharpless, S. 1952, *Ap. J.*, **116**, 251.
———. 1962, *ibid.*, **136**, 767.

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
3		4.61	1.91	1.04	0.78	1.32	1.66	2.36	2.43	K1 III	3	3	3	1
15		2.06	-0.56	-0.11	-0.03	-0.13	-0.28	-0.34	.	B9p (III)	6	4	3	1
21		2.27	0.46	0.34	0.31	0.51	0.62	0.79	.	F2 IV	9	4	3	1
25		3.88	1.87	1.03	0.75	1.27	.	.	.	K0 III	6	1	0	2
27		5.04	0.66	0.40	0.42	0.71	0.99	1.23	.	F2 II	2	2	1	1
39		2.84	-1.09	-0.23	-0.10	-0.29	-0.50	-0.68	-0.69	B2 IV	9	8	3	1
45		4.80	3.50	1.57	1.34	2.47	3.11	4.17	4.35	M2 III	9	9	9	1
48	V	4.46	3.61	1.66	1.40	2.54	.	.	.	(gM1)	2	2	0	1
63		4.61	0.11	0.06	0.08	0.09	.	.	.	A2 V	9	2	0	1
68		4.52	0.12	0.05	0.08	0.08	.	.	.	A2 V	6	2	0	1
74		3.55	2.39	1.22	0.85	1.44	1.89	2.60	2.69	K2 III	2	2	4	1
77		4.23	0.60	0.58	0.49	0.83	.	.	.	G2 V	3	4	0	4
90	V	7.39	3.22	1.97	2.94	5.09	6.22	7.79	8.63	S6:6e(M7e)	JD2439056			
98		2.30	0.73	0.62	0.50	0.84	.	.	.	G1 IV	3	2	0	4
99		2.40	1.97	1.09	0.81	1.40	.	.	.	K0 III	6	1	0	2
100		3.94	0.27	0.17	0.14	0.22	.	.	.	A7 Vn	6	1	0	2
105	V	4.31	3.45	1.64	1.59	2.97	.	.	.	(M5)	3	1	0	2
113		5.94	-0.33	0.01	.	.	0.03	0.18	.	(B9)	9	0	2	1
123	D	4.73	-0.45	-0.10	0.00	-0.12	.	.	.	(B8)	3	3	0	1
130		4.16	-0.63	0.14	0.14	0.20	0.17	0.24	0.25	B1 Ia	9	6	4	1
153		3.66	-1.08	-0.19	-0.08	-0.29	-0.58	-0.74	-0.79	B2.5 IV	4	4	2	1
154		4.36	-0.71	-0.16	-0.04	-0.16	.	.	.	B5 V	2	2	0	1
163		4.38	1.34	0.87	0.68	1.19	1.54	2.17	.	G8 IIIp	4	2	3	1
165		3.28	2.76	1.28	0.92	1.58	2.04	2.80	2.98	K3 III	4	2	4	1
166		5.86	1.43	0.85	0.65	1.04	1.40	1.89	.	K0 V	5	5	1	3
168		2.23	2.29	1.17	0.78	1.38	1.81	2.48	2.69	K0 II-III	7	4	3	1
175		5.33	1.49	0.89	0.71	1.17	.	.	.	G8 III	7	4	0	1
179		4.81	-0.76	-0.10	-0.01	-0.13	-0.21	-0.32	-0.22	B2 V	3	3	3	1
180		4.59	1.69	0.97	0.75	1.27	.	.	.	G8 III	6	4	0	2
188		2.02	1.89	1.01	0.72	1.23	1.63	2.27	.	K1 III	6	3	3	1
193		4.50	-0.59	-0.06	0.05	0.00	-0.09	-0.13	-0.14	B2 V	3	3	1	1
194		4.75	1.84	1.00	0.74	1.25	.	.	.	K0 III	4	4	0	1
215	V	4.06	1.59	1.12	0.85	1.44	1.87	2.54	.	K1 II	3	3	3	1
219	D	3.44	0.60	0.58	0.50	0.86	1.08	1.47	.	G0 V	4	2	3	1
222		5.76	1.66	0.88	0.77	1.24	.	.	.	K2 V	4	2	0	3
224		4.44	3.39	1.51	1.17	2.04	2.66	3.61	.	K5 III	2	2	3	1
226		4.53	-0.73	-0.15	-0.03	-0.18	.	.	.	B5 V	7	2	0	1
235		5.20	0.49	0.50	0.46	0.74	.	.	.	F8 V	6	4	0	1
244		4.82	0.65	0.53	0.48	0.78	.	.	.	F8 V	3	3	0	1
248		4.78	3.49	1.57	1.23	2.14	.	.	.	M0 III	2	2	0	1
253		4.84	2.48	1.22	0.92	1.53	.	.	.	K2 III	2	2	0	1
264	V	2.39	-1.21	-0.10	0.07	-0.01	-0.08	0.19	0.39	B0 IV:e	3	3	4	1
265		4.64	1.66	0.96	0.77	1.27	.	.	.	G8 III-IV	2	2	0	1
269		3.87	0.27	0.12	0.15	0.23	.	.	.	A4 III	2	2	0	1
271		4.42	1.53	0.94	0.73	1.21	.	.	.	G8 III-IV	6	2	0	1
276		6.32	1.48	0.90	0.67	1.13	.	.	.	G5 III	7	4	0	1
280		4.27	-0.75	-0.18	-0.03	-0.16	.	.	.	B8 IIIp	2	5	0	1
285		4.26	2.54	1.21	0.89	1.49	.	.	.	K2 III	3	3	0	1
290		5.98	0.25	0.16	0.18	0.23	.	.	.	A7 V	6	4	0	1
294		4.28	1.57	0.96	0.78	1.30	1.68	2.28	.	K0 III	4	4	2	1
315		6.12	1.86	1.01	0.73	1.26	.	.	.	K0 III	5	3	0	1
321		5.18	0.78	0.69	0.63	1.04	.	.	.	G5 Vp	9	4	0	3
322	D	3.31	1.46	0.90	0.71	1.23	.	.	.	G8 III	3	4	0	2
330		5.53	0.33	0.34	0.35	0.53	.	.	.	F2 V	8	2	0	1
334		3.45	2.35	1.16	0.83	1.41	1.87	2.62	.	K3 III	5	3	2	1
335	D	4.25	-0.41	-0.07	0.03	-0.02	.	.	.	B7 V	4	4	0	1
337		2.05	3.53	1.57	1.24	2.24	2.87	3.88	.	M0 III	4	2	2	1
343		4.34	0.30	0.17	0.18	0.25	.	.	.	A7 V	9	3	0	1
351		4.66	1.84	1.03	0.76	1.30	.	.	.	G8 III	2	2	0	1
352		4.51	2.10	1.10	0.82	1.40	.	.	.	K0 III-IV	2	2	0	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
360		4.66	1.87	1.03	0.75	1.28	1.65	2.28	.	K0 III	2	2	3	1
370		4.96	0.68	0.58	0.49	0.85	.	.	.	F8 V	3	4	0	2
378		5.17	0.15	0.07	0.11	0.14	.	.	.	A3 V	5	3	0	1
382		4.99	1.17	0.68	0.64	1.20	1.52	1.89	2.08	F0 Ia	9	3	3	1
383		4.76	0.13	0.03	0.08	0.13	.	.	.	A3 V	2	2	0	1
390		4.90	2.05	1.08	0.81	1.34	.	.	.	K0 III-IV	3	3	0	1
399		4.74	1.97	1.04	0.78	1.30	.	.	.	K0 III	3	3	0	1
402		3.59	1.98	1.06	0.76	1.32	1.75	2.41	.	K0 III	3	3	3	1
403	V	2.68	0.26	0.13	0.15	0.24	0.27	0.36	.	A5 V	8	3	3	1
417		4.83	0.42	0.42	0.41	0.64	.	.	.	F4 IV	3	3	0	1
423	V	5.77	.	3.83	2.05	3.43	4.33	5.97	.	(N3)	3	3	3	2
424		2.02	0.98	0.60	0.49	0.80	.	.	.	F8 Ib	6	3	0	1
429	V	3.41	3.41	1.57	1.26	2.24	.	.	.	K5 II	3	4	0	2
434		4.84	2.90	1.38	1.06	1.80	2.42	3.33	.	K4 III	4	2	2	1
437		3.62	1.71	0.97	0.72	1.22	1.59	2.19	.	G8 III	9	6	4	1
440		3.95	1.69	0.99	0.75	1.26	.	.	.	K0 III-IV	3	3	0	2
442		4.72	1.76	1.00	0.77	1.30	.	.	.	G8 III	2	2	0	1
458		4.10	0.60	0.54	0.46	0.75	0.93	1.25	1.31	F8 V	8	5	8	1
461		5.56	2.81	1.38	0.97	1.68	.	.	.	G5 II	4	2	0	1
464		3.57	2.72	1.28	0.96	1.61	2.04	2.78	.	K3 III	4	2	4	1
472		(0.47)	.	-0.15	-0.03	-0.10	.	.	.	B5 IV	1	9	0	4
477		4.94	-0.50	-0.09	-0.01	-0.08	.	.	.	B8 IV	2	2	0	1
483		4.96	0.73	0.62	0.53	0.86	1.08	1.39	1.54	G2 V	6	3	7	1
485		5.99	1.89	1.01	0.77	1.23	.	.	.	K0 III	4	2	0	1
486		5.07	.	0.88	0.69	1.17	.	.	.	K0 V	3	3	0	4
489		4.44	2.92	1.36	1.06	1.77	2.31	3.20	.	K3 III	3	3	3	1
493		5.24	1.33	0.84	0.69	1.12	.	.	.	K1 V	9	9	0	1
496	V	4.06	-0.96	-0.04	0.16	0.18	0.23	0.71	1.23	B1pe (III:V)	5	5	6	1
509		3.50	0.93	0.72	0.62	1.09	1.34	1.82	.	G8 Vp	9	3	3	1
510		4.26	1.64	0.96	0.74	1.22	1.57	2.12	.	G8 III	3	3	3	1
511		5.63	1.21	0.81	0.64	1.03	.	.	.	K0 V	3	5	0	3
519		5.49	.	1.59	1.49	2.76	3.51	4.50	.	(gM4)	3	3	3	2
530	D	5.86	1.24	0.74	0.68	1.17	.	.	.	K0 III+A6 V	5	3	0	1
531		4.68	0.35	0.32	0.29	0.45	.	.	.	F2 IV	7	3	0	1
534		5.94	0.28	0.30	0.33	0.50	.	.	.	F0 V	5	3	0	1
539		3.72	2.20	1.14	0.80	1.35	1.80	2.49	.	K2 III	3	3	4	1
542		3.38	-0.77	-0.15	-0.04	-0.16	-0.29	-0.40	-0.39	B3 III	4	4	6	1
544		3.42	0.54	0.48	0.42	0.70	0.89	1.18	.	F6 IV	5	2	4	1
545/6		3.88	-0.17	-0.04	0.01	-0.04	.	.	.	B9 V /A1p	2	2	0	1
549		4.63	1.64	0.94	0.73	1.20	.	.	.	K0 III	3	3	0	1
553		2.65	0.23	0.13	0.14	0.22	0.18	0.28	.	A5 V	9	5	3	1
555		4.41	3.30	1.59	1.73	3.24	.	.	.	M4 III	6	4	0	2
558		5.11	-0.20	-0.06	0.02	-0.04	.	.	.	(B9)	6	4	0	2
569		4.79	0.37	0.28	0.28	0.44	.	.	.	F2 IV	3	3	0	1
574		4.83	1.39	0.88	0.70	1.15	.	.	.	(G4)	6	4	0	2
575		4.54	0.22	0.16	0.18	0.26	.	.	.	A4 V	3	3	0	1
580		3.98	0.03	-0.01	0.06	0.06	.	.	.	A1 V	3	3	0	1
585		4.01	3.45	1.56	1.26	2.30	2.90	3.91	.	M1 III	3	2	3	1
590		5.04	-0.40	-0.08	0.03	-0.02	.	.	.	B8 V	3	3	0	1
595/6		3.82	-0.07	0.02	0.08	0.08	.	.	.	Am+Ap	3	3	0	1
599		5.50	0.09	0.03	0.06	0.09	.	.	.	A2 III	4	3	0	1
602		5.14	3.31	1.49	1.22	2.11	2.62	3.62	.	(gK5)	6	4	1	2
603/4		2.10	2.13	1.21	0.94	1.62	2.08	2.91	2.98	K3 II+A	2	3	3	1
612		4.69	-0.68	-0.17	-0.04	-0.18	-0.32	-0.34	.	A0 III(V)	3	7	1	1
617		2.00	2.28	1.15	0.84	1.46	1.90	2.64	2.74	K2 III	9	9	9	1
618		5.67	0.60	0.61	0.59	1.09	1.40	1.74	.	A1 Ia	7	4	4	1
620		4.83	0.26	0.12	0.14	0.21	.	.	.	A4 V	3	3	0	1
622		3.00	0.26	0.14	0.14	0.22	0.22	0.34	.	A5 III	4	2	4	1
627		6.35	-0.10	0.33	0.34	0.60	.	.	.	B5 Ia	5	4	0	1
641		6.43	0.84	0.60	0.55	1.06	.	.	.	A3 Iab	5	4	0	1

TABLE 2 UBVRIJKL PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
647		6.06	0.33	0.40	0.38	0.63	.	.	.	F5 V	4	3	0	1
648		5.70	3.50	1.55	1.24	2.21	2.88	3.80	.	M0 III	5	3	2	1
649		4.37	1.49	0.88	0.67	1.16	1.51	2.06	.	G8 II	2	2	2	1
654		6.48	-0.38	0.28	0.34	0.53	.	.	.	B1 Iab	5	4	0	1
656		5.79	0.48	0.44	0.40	0.61	.	.	.	(dF3)	3	6	0	1
664		4.01	0.04	0.02	0.03	0.03	.	.	.	A0 V	3	3	0	1
681	max	3.04	2.51	1.42	2.01	3.91	4.84	6.04	6.69	M4.5(gM6e)	JD2439130			
681	min	8.65	1.30	1.60	4.49	7.91	9.49	10.84	11.53	M7 (gM6e)	JD2438670			
695		5.20	.	0.60	0.54	0.90	.	.	.	G1 V	3	6	0	4
696		6.25	-0.31	0.30	0.33	0.52	0.61	0.77	0.87	B2 Ia	9	4	8	1
699		4.70	3.43	1.53	1.18	2.05	.	.	.	K4 III	3	3	0	1
707	D	4.53	0.19	0.13	0.16	0.22	.	.	.	A5p	4	4	0	1
708		4.89	-0.07	-0.02	-0.02	-0.05	.	.	.	B9 V	3	3	0	1
710		5.83	0.23	0.14	0.12	0.16	.	.	.	A7p	5	4	0	1
718		4.29	-0.17	-0.06	0.02	-0.03	-0.12	-0.14	0.04	B9 III	9	9	1	1
721		4.25	-0.64	-0.14	-0.03	-0.16	-0.29	-0.39	.	B5 III	6	4	1	2
740		4.75	0.44	0.45	0.41	0.68	.	.	.	F5 IV-V	3	2	0	1
749	D	4.89	-0.20	-0.06	0.02	-0.05	.	.	.	(B9)	2	6	0	1
753		5.82	1.76	0.97	0.83	1.36	.	.	.	K3 V	9	9	0	1
754		4.86	1.39	0.86	0.65	1.14	.	.	.	G8 III	4	3	0	1
779		4.06	-1.09	-0.21	-0.07	-0.28	.	.	.	B2 IV	2	2	0	1
788		4.92	0.73	0.59	0.50	0.80	.	.	.	F9 V	3	2	0	1
789		4.75	0.12	0.06	0.10	0.11	.	.	.	A2 V	6	4	0	2
794		4.11	1.76	1.02	0.79	1.35	.	.	.	K0 III	9	4	0	2
797		6.30	0.12	0.06	0.05	0.07	.	.	.	A2 V	4	3	0	1
799		4.13	0.49	0.49	0.46	0.76	.	.	.	F7 V	5	3	0	1
801		4.67	-0.76	-0.13	-0.02	-0.15	.	.	.	B3 V	3	3	0	1
804	D	3.47	0.16	0.09	0.11	0.15	0.17	0.24	.	A2 V	9	3	3	1
811		4.25	-0.59	-0.14	-0.02	-0.16	.	.	.	B7 V	4	4	0	1
813		4.27	0.38	0.31	0.30	0.49	.	.	.	F0 IV	5	3	0	1
818		4.46	0.48	0.48	0.43	0.70	.	.	.	F6 V	2	2	0	1
824		4.52	2.14	1.11	0.80	1.38	1.82	2.50	.	K1 III	2	2	3	1
825		6.26	1.39	0.88	0.82	1.58	.	.	.	A5 Ia	9	7	0	1
834		3.79	3.59	1.69	1.23	2.12	2.74	3.70	3.88	K3 Ib+B9 V	2	2	4	1
838		3.63	-0.48	-0.10	-0.02	-0.13	.	.	.	B8 V	4	4	0	1
840		4.23	0.42	0.34	0.30	0.53	.	.	.	F2 III	5	3	0	1
841		4.46	1.68	0.99	0.76	1.30	.	.	.	G6 III	6	4	0	2
843		4.53	3.48	1.56	1.21	2.16	2.77	3.75	.	K5 III	4	4	2	1
850		4.77	1.51	0.90	0.70	1.17	.	.	.	K0 III	3	3	0	1
854		3.95	1.21	0.75	0.62	1.06	1.40	1.94	.	G4 III+A4 V	3	3	2	1
857		6.05	1.43	0.87	0.71	1.16	.	.	.	K0 V	4	3	0	3
874		3.87	2.10	1.12	0.79	1.37	1.80	2.47	.	K1 III-IV	3	3	4	1
875		5.17	0.13	0.08	0.11	0.16	.	.	.	A1 V	9	9	0	1
878		5.80	0.42	0.41	0.38	0.58	.	.	.	(dF4)	3	6	0	1
879		4.70	0.18	0.06	0.10	0.14	.	.	.	A2 V	2	2	0	1
882		4.94	2.53	1.25	0.89	1.53	.	.	.	K2 III	2	2	0	1
887		4.63	0.12	0.04	0.05	0.07	.	.	.	A2 V	4	3	0	1
896		4.70	-0.57	-0.12	-0.03	-0.14	.	.	.	B5 III	3	3	0	1
897/8		2.91	0.24	0.12	0.14	0.22	0.12	0.20	.	A3 V	6	4	2	2
906		5.95	0.24	0.15	0.13	0.20	.	.	.	A7m	4	3	0	1
911		2.53	3.57	1.64	1.35	2.51	3.13	4.21	4.27	M2 III	6	3	2	1
915		2.93	1.15	0.70	0.59	1.04	1.40	1.95	.	G8 III:+A3:	6	2	3	1
919		4.09	0.24	0.16	0.13	0.22	.	.	.	A4 V	6	2	0	1
921	V	3.39	3.44	1.65	1.80	3.42	4.17	5.32	5.53	M4 IIIa	5	2	8	1
932		4.88	0.07	0.02	0.08	0.07	.	.	.	A0 V	3	3	0	1
936	V	2.12	-0.42	-0.05	0.04	0.01	-0.04	-0.12	.	B8 V	8	3	2	1
937		4.05	0.71	0.60	0.53	0.82	1.00	1.34	.	G4 V	8	2	4	1
941		3.81	1.81	0.98	0.74	1.24	1.58	2.16	.	K0 III	3	3	3	1
947		4.64	2.13	1.11	0.83	1.40	.	.	.	K0 III	3	3	0	1
951		4.37	1.89	1.03	0.77	1.28	1.68	2.29	.	K2 III	3	2	4	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
963	D	3.85	0.56	0.51	0.46	0.77	1.00	1.31	.	F8 IV	2	6	2	1
972		4.89	-0.03	-0.02	0.06	0.03	.	.	.	A0 IV	3	3	0	1
977	*V	5.74	.	2.27	1.89	3.27	4.36	5.78	.	(Na)	4	4	1	2
984		4.80	0.32	0.23	0.22	0.33	.	.	.	A7m	3	3	0	1
985		4.85	-0.92	-0.15	-0.03	-0.16	.	.	.	B2 Ve	3	3	0	1
991		4.82	3.04	1.49	1.07	1.83	2.36	3.23	3.41	K2 II	2	3	2	1
996		4.84	0.87	0.68	0.57	0.93	.	.	.	G5 V	9	6	0	1
999		4.47	3.31	1.54	1.20	2.08	.	.	.	K4 III	3	3	0	1
1002		4.95	0.11	0.04	0.08	0.08	.	.	.	A3 V	3	3	0	1
1003		3.70	3.43	1.62	1.58	3.04	3.77	4.87	.	(gM3)	3	3	4	1
1006		5.54	.	0.64	0.54	0.88	.	.	.	G2 V	3	4	0	4
1008		4.27	0.93	0.71	0.62	1.02	.	.	.	G5 V	6	3	0	2
1010		5.24	.	0.60	0.49	0.83	.	.	.	G1 V	3	4	0	4
1016		5.52	1.47	0.88	0.66	1.13	.	.	.	G5 II	8	3	0	1
1017		1.79	0.87	0.48	0.45	0.78	0.92	1.23	1.31	F5 Ib	9	4	9	1
1030		3.60	1.51	0.89	0.68	1.13	1.46	2.02	.	G8 III	9	4	3	1
1034		4.98	-0.65	-0.10	0.01	-0.09	.	.	.	B3 V	9	6	0	1
1035	D	4.21	0.18	0.41	0.37	0.75	0.98	1.21	1.36	B9 Ia	7	2	3	1
1038		3.75	-0.42	-0.09	-0.01	-0.10	.	.	.	B8 V	6	6	0	1
1040		4.54	0.45	0.56	0.51	1.01	1.32	1.66	1.76	A0 Ia	9	4	4	1
1044		4.67	-0.66	-0.09	0.02	-0.09	.	.	.	B3 IV	9	3	0	1
1046	D	5.10	0.09	0.04	0.09	0.08	.	.	.	A1 V	9	5	0	1
1052		4.38	2.87	1.34	1.09	1.83	2.31	3.16	.	K3 III	3	3	3	1
1066		4.10	2.15	1.13	0.77	1.31	1.73	2.39	.	K0 II-III	3	3	3	1
1069		5.32	0.39	0.41	0.41	0.63	0.87	0.88	.	F4 III	4	2	1	1
1070		4.73	-0.36	-0.09	-0.01	-0.09	.	.	.	B8 V	3	2	0	1
1084	*	3.73	1.46	0.88	0.72	1.19	1.49	2.03	2.23	K2 V	9	9	3	1
1087		4.23	-0.62	-0.06	0.10	0.09	.	.	.	B5e	9	3	0	1
1088		4.28	-0.47	-0.12	0.00	-0.12	.	.	.	B8 V	3	3	0	1
1101		4.28	0.65	0.57	0.49	0.81	1.00	1.34	.	F8 V	3	3	3	1
1106		4.58	1.81	1.04	0.84	1.41	1.81	2.53	.	K0 III	6	3	2	2
1122		3.01	-0.63	-0.12	0.02	-0.09	-0.23	-0.33	.	B5 III	9	2	4	1
1129		4.79	1.06	0.81	0.74	1.27	.	.	.	A1+G2 III	4	4	0	1
1131		3.83	-0.70	0.05	0.12	0.12	.	.	.	B1 III	9	3	0	1
1134		5.00	-0.76	-0.16	-0.05	-0.20	.	.	.	(B5n)	6	2	0	2
1135		3.77	0.74	0.42	0.41	0.67	0.85	1.17	.	F5 II	4	3	4	1
1136		3.54	1.59	0.92	0.72	1.22	1.58	2.14	.	K0 IV	7	3	4	1
1138		5.44	0.21	0.09	0.11	0.14	.	.	.	A m	2	2	0	1
1140		5.46	-0.37	-0.04	0.06	0.01	0.01	-0.14	-0.06	B7 IV	8	5	3	1
1142		3.70	-0.52	-0.12	-0.01	-0.11	-0.18	-0.24	-0.31	B6 III	6	7	4	1
1144		5.65	-0.43	-0.07	0.03	-0.04	-0.12	-0.18	-0.18	B8 V	8	9	3	1
1145		4.30	-0.57	-0.11	-0.01	-0.10	-0.15	-0.21	-0.27	B6 V	7	5	3	1
1148		4.66	0.10	0.03	0.13	0.17	.	.	.	A3 IV	4	4	0	1
1149		3.87	-0.47	-0.07	0.04	-0.02	-0.06	-0.13	-0.10	B7 III	7	7	3	1
1151		5.76	-0.27	-0.04	0.06	0.02	-0.04	-0.06	-0.07	B8 V	5	4	2	1
1152		6.43	-0.17	-0.02	0.04	0.02	.	.	.	B9.5 V	7	4	0	1
1155	V	4.48	4.01	1.88	1.71	3.13	3.97	5.14	.	M2 IIa	4	3	4	1
1156		4.18	-0.48	-0.06	0.07	0.03	0.02	0.12	0.21	B6 IVnn	6	6	3	1
1162		4.42	3.63	1.62	1.34	2.39	3.08	4.14	.	(gM2)	3	3	4	1
1165		2.87	-0.44	-0.09	0.03	-0.01	-0.08	-0.09	-0.03	B7 III	9	9	9	1
1172		5.45	-0.39	-0.07	0.05	-0.01	-0.13	-0.22	-0.37	B8 V	9	3	2	1
1173		4.23	0.43	0.42	0.39	0.61	.	.	.	F3 V	3	3	0	1
1178		3.62	-0.45	-0.09	0.01	-0.04	-0.12	-0.18	-0.05	B8 III	7	6	4	1
1180	V	5.09	-0.36	-0.08	0.07	0.01	-0.02	0.03	0.14	B8pec	8	4	4	1
1183		6.17	-0.24	-0.05	0.03	-0.02	.	.	.	B9 V	4	4	0	1
1185		6.07	-0.33	-0.01	0.07	0.06	.	.	.	B8 III	2	3	0	1
1189/90		4.27	-0.05	-0.01	0.02	-0.02	.	.	.	(B9+B8)	6	3	0	2
1195		4.17	1.63	0.95	0.71	1.21	1.52	2.10	.	G5 III	6	3	2	2
1201		5.97	0.34	0.34	0.33	0.50	.	.	.	F2 V	6	4	0	1
1203		2.85	-0.66	0.12	0.14	0.23	0.20	0.18	0.19	B1 Ib	8	3	7	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
1204		5.04	-0.26	-0.10	0.07	-0.01	.	.	.	B9 V	2	3	0	1
1211/2		4.45	1.10	0.68	0.59	0.99	.	.	.	A1 V/G5III	3	3	0	1
1213		4.65	-0.61	-0.13	-0.03	-0.17	.	.	.	B5 V	3	4	0	1
1220		2.89	-1.18	-0.18	-0.07	-0.25	-0.47	-0.66	-0.65	B0.5 V	8	3	4	1
1228		4.04	-0.91	0.02	0.16	0.15	0.08	0.03	0.09	O7	9	3	6	1
1231		2.94	3.58	1.60	1.26	2.26	2.87	3.87	3.94	M0 III	6	3	3	1
1233		6.37	0.42	0.42	0.38	0.60	.	.	.	F5 V	4	4	0	1
1238		5.89	0.37	0.32	0.32	0.49	.	.	.	F1 V	2	5	0	1
1239	V	3.41	-0.75	-0.12	-0.03	-0.12	-0.25	-0.24	-0.19	B3 V+A4 IV	3	3	3	1
1240		4.66	-0.55	-0.14	0.02	-0.11	.	.	.	A0 III	3	3	0	1
1242		5.08	0.99	0.50	0.51	0.90	1.15	1.32	.	F0 II	3	3	1	1
1251		3.91	0.09	0.03	0.08	0.08	.	.	.	A1 V	3	4	0	1
1254		5.46	0.36	0.36	0.37	0.58	.	.	.	F3 V	3	5	0	1
1256		4.37	2.02	1.07	0.79	1.32	1.74	2.40	.	K0 III	3	3	3	1
1261		4.29	-0.02	0.02	0.08	0.10	.	.	.	B9 V	3	3	0	1
1273		4.03	-0.58	-0.03	0.12	0.10	.	.	.	B3 Vp	7	3	0	1
1279	D	6.01	0.42	0.40	0.38	0.59	.	.	.	F3 V	3	4	0	1
1292		5.73	0.35	0.36	0.35	0.54	.	.	.	F4 V	3	8	0	1
1298		4.05	0.48	0.33	0.31	0.47	.	.	.	F2 II-III	3	2	0	1
1302		4.93	0.40	0.33	0.35	0.56	0.63	0.90	.	(gF0)	3	3	3	2
1303		4.15	1.59	0.95	0.79	1.33	1.67	2.22	2.32	G0 Ib	4	4	5	1
1306		4.71	1.55	1.01	0.80	1.37	.	.	.	G5 Ib+A2	3	3	0	1
1309		5.29	0.36	0.36	0.35	0.54	0.74	0.89	.	F3 V	3	3	1	1
1311	D	4.84	1.31	0.80	0.66	1.11	.	.	.	(gG5)	4	4	0	1
1318	D	4.86	2.32	1.18	0.85	1.42	1.92	2.63	.	K2 III+G2 V	4	2	2	1
1319		6.32	0.42	0.40	0.38	0.59	.	.	.	F3 V	2	4	0	1
1320		4.30	-0.56	-0.05	0.05	-0.01	.	.	.	B3 V	2	2	0	1
1324		4.61	0.07	0.04	0.15	0.20	.	.	.	(A2)	9	3	0	1
1325		4.43	1.26	0.82	0.69	1.14	1.48	2.03	.	K1 V	9	4	3	1
1326		3.86	2.11	1.10	0.86	1.45	1.81	2.48	.	K1 III	3	3	3	2
1327		5.27	1.28	0.81	0.64	1.07	1.36	1.86	1.92	G5 III	6	3	3	1
1329		4.94	0.37	0.26	0.26	0.37	.	.	.	A m	3	3	0	1
1331		5.65	0.35	0.28	0.28	0.44	.	.	.	A8 V	3	4	0	1
1346		3.65	1.80	0.99	0.73	1.20	1.58	2.14	.	K0 III	9	7	3	1
1347		3.56	-0.49	-0.12	-0.01	-0.12	-0.29	-0.31	.	B8.5 V	6	3	3	2
1350		4.86	-0.56	-0.02	0.09	0.04	.	.	.	B6 III	2	2	0	1
1351		5.59	0.36	0.28	0.28	0.44	.	.	.	F0 V	2	4	0	1
1354		6.11	0.40	0.37	0.37	0.57	.	.	.	F2 V	2	8	0	1
1355		4.44	2.15	1.08	0.83	1.38	1.87	2.47	.	(sgK5)	6	3	4	2
1356		5.26	0.32	0.22	0.23	0.35	.	.	.	A9 V	2	4	0	1
1358		6.17	0.48	0.46	0.42	0.67	.	.	.	F6 V	2	5	0	1
1368		5.72	0.42	0.32	0.31	0.48	.	.	.	F m	2	4	0	1
1373		3.76	1.81	0.99	0.73	1.20	1.53	2.12	2.21	K1 III	9	6	6	1
1376		5.64	0.43	0.30	0.27	0.43	.	.	.	A m	2	4	0	1
1380		4.80	0.28	0.15	0.16	0.23	.	.	.	A7.5 V	5	8	0	1
1381		5.12	0.18	0.07	0.10	0.15	.	.	.	(A2)	4	3	0	1
1383		5.17	0.16	0.08	0.10	0.13	.	.	.	A1 V	3	3	0	1
1385		5.97	0.41	0.37	0.38	0.60	.	.	.	F4 Vn	2	4	0	1
1387		4.22	0.27	0.13	0.16	0.21	.	.	.	A7 V	6	7	0	1
1388		5.28	0.34	0.25	0.26	0.40	.	.	.	A7 V	4	3	0	1
1389		4.28	0.12	0.04	0.09	0.10	.	.	.	A3 V	4	7	0	1
1391		5.46	0.51	0.49	0.45	0.70	.	.	.	F7 V	2	4	0	1
1392		4.28	0.41	0.26	0.27	0.41	.	.	.	A8 Vm	7	8	0	1
1393		3.96	3.29	1.49	1.17	2.00	2.51	3.45	.	M1 III	6	3	3	2
1394		4.50	0.39	0.25	0.27	0.42	.	.	.	F0 V	4	7	0	1
1396		4.69	1.70	0.98	0.72	1.23	.	.	.	G8 III	3	4	0	1
1403		5.72	0.37	0.27	0.25	0.39	.	.	.	(dA8n)	3	4	0	1
1408		5.90	0.38	0.32	0.31	0.50	.	.	.	F0 V	3	4	0	1
1409		3.54	1.88	1.01	0.73	1.23	1.60	2.21	.	K1 III	9	9	3	1
1411		3.83	1.67	0.95	0.71	1.18	1.54	2.10	.	G9 III	9	9	3	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
1412		3.39	0.30	0.18	0.18	0.27	0.32	0.47	.	A7 IVn	9	9	3	1
1414		5.03	0.35	0.23	0.20	0.28	.	.	.	A7 IVn	3	4	0	1
1422		5.58	0.42	0.32	0.32	0.51	.	.	.	F0 V	3	3	0	1
1427		4.78	0.30	0.17	0.17	0.24	.	.	.	A6 Vn	5	7	0	1
1428		5.48	0.36	0.26	0.24	0.36	.	.	.	A7m	3	4	0	1
1430		5.41	0.36	0.26	0.26	0.40	.	.	.	F0 Vn	4	4	0	1
1432		6.02	0.37	0.34	0.33	0.53	.	.	.	F2 Vn	3	4	0	1
1436		6.40	0.41	0.41	0.38	0.63	.	.	.	(dF4)	2	4	0	1
1437		4.91	2.74	1.31	0.94	1.61	.	.	.	K3 II-III	3	3	0	1
1444		4.65	0.33	0.25	0.24	0.36	.	.	.	A8 Vn	6	7	0	1
1448		5.68	0.17	0.05	0.12	0.16	.	.	.	(A2)	4	3	0	1
1453		4.51	1.69	0.98	0.75	1.29	1.65	2.29	.	(gG6)	4	8	3	1
1454		4.27	2.01	1.22	0.98	1.67	2.18	2.94	3.10	K4 III+A3 V	2	2	4	1
1457	*	0.86	3.46	1.54	1.23	2.17	2.70	3.67	3.86	K5 III	9	3	9	1
1458		4.26	0.30	0.18	0.19	0.29	.	.	.	A m	2	2	0	1
1459		6.02	0.40	0.38	0.37	0.58	.	.	.	(dF2)	2	4	0	1
1463		3.92	-1.09	-0.21	-0.10	-0.29	.	.	.	B2 III	2	2	0	1
1464		3.82	1.70	0.98	0.75	1.24	1.52	2.13	.	K0 III	6	3	3	2
1472		5.79	0.37	0.31	0.31	0.47	.	.	.	F0 V	2	4	0	1
1473		4.27	0.25	0.12	0.14	0.19	.	.	.	A6 Vn	5	7	0	1
1479		4.70	0.28	0.14	0.18	0.25	.	.	.	A5 Vn	4	7	0	1
1480		5.39	0.37	0.25	0.23	0.35	.	.	.	(dA9)	2	4	0	1
1481	D	3.87	2.12	1.09	0.84	1.40	1.86	2.54	.	K2 III	3	3	2	1
1496	V	4.34	3.39	1.61	1.59	2.97	3.65	4.70	.	(gM4)	3	3	3	1
1497		4.29	-0.71	-0.14	-0.03	-0.17	.	.	.	B3 V	2	3	0	1
1502		4.45	0.34	0.34	0.34	0.55	0.59	0.78	.	F2 V	6	3	3	2
1507		5.40	0.33	0.25	0.25	0.38	.	.	.	(dA6)	2	4	0	1
1517		6.01	2.53	1.21	0.88	1.51	.	.	.	(gK4)	3	2	0	1
1519		5.37	0.31	0.19	0.18	0.26	.	.	.	A m	3	4	0	1
1520		4.02	-0.76	-0.16	-0.06	-0.20	.	.	.	B5 IV	2	3	0	1
1532		5.51	.	0.64	0.55	0.89	.	.	.	(dG1)	3	7	0	4
1542		4.29	-0.85	0.03	0.11	0.11	.	.	.	O9.5 Ia	3	3	0	1
1543		3.19	0.45	0.46	0.42	0.68	0.80	1.08	.	F6 V	9	9	3	1
1544		4.35	0.04	0.01	0.06	0.06	.	.	.	A0 V	2	3	0	1
1547		5.11	0.33	0.21	0.22	0.34	.	.	.	(dA5n)	3	4	0	1
1551		4.77	2.99	1.41	1.09	1.87	.	.	.	K3 III	3	3	0	1
1552		3.68	-0.97	-0.16	-0.05	-0.21	-0.38	-0.47	-0.53	B2 III	9	6	4	1
1560		4.40	0.41	0.23	0.32	0.49	.	.	.	A9 IV	3	3	0	1
1566		6.37	0.36	0.29	0.28	0.44	.	.	.	(dA9n)	2	5	0	1
1567	V	3.73	-1.01	-0.19	-0.06	-0.26	.	.	.	B2 III	3	3	0	1
1568	D	4.47	-0.04	-0.02	0.09	0.08	.	.	.	A1 V	6	3	0	1
1570		4.67	0.17	0.08	0.11	0.14	.	.	.	A0 V	3	3	0	1
1577		2.69	3.31	1.53	1.06	1.88	2.42	3.32	3.48	K3 II	5	2	5	1
1580		4.06	2.25	1.15	0.88	1.51	1.94	2.70	.	K2 III	3	3	3	1
1592	D	4.95	0.06	0.05	0.05	0.08	.	.	.	A0 V	3	3	0	1
1601		4.49	2.96	1.40	1.05	1.75	.	.	.	K2 II	3	3	0	1
1603		4.03	1.56	0.93	0.70	1.15	1.42	1.93	.	G0 Ib	3	3	3	1
1605	V*	2.99	0.87	0.54	0.52	0.97	1.17	1.53	1.76	F0 Iap	9	9	9	1
1611		4.78	0.43	0.26	0.28	0.42	.	.	.	F0 IV	3	3	0	1
1612	V	3.75	1.60	1.22	1.13	2.00	2.65	3.60	.	K5 II+B	9	9	7	8
1614		6.21	2.06	1.06	0.85	1.34	.	.	.	(dK5)	4	3	0	3
1617		4.81	-0.94	-0.19	-0.08	-0.27	.	.	.	B2 V	2	3	0	1
1620		4.64	0.30	0.16	0.16	0.25	.	.	.	A7 V	5	7	0	1
1621		4.92	-0.19	-0.05	0.02	-0.03	.	.	.	B9 V	3	3	0	1
1637		5.00	0.33	0.34	0.31	0.51	.	.	.	F0 V	3	3	0	1
1638		4.68	-0.15	-0.05	0.04	0.02	.	.	.	B9p (Si)	3	3	0	1
1641		3.18	-0.85	-0.18	-0.05	-0.22	-0.43	-0.56	.	B3 V	9	9	8	1
1648	V	6.17	.	3.44	2.32	3.80	4.73	6.63	.	C5.3	5	5	2	2
1652	D	4.55	2.39	1.20	0.91	1.56	1.97	2.73	.	(gK3)	6	3	3	2
1654		3.19	3.23	1.46	1.10	1.91	2.52	3.42	.	K5 III	6	3	3	1

TABLE 2 UBVRIJKL PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
1657		5.14	-0.24	-0.06	0.01	-0.09	.	.	.	(B9)	2	1	0	1
1663		5.01	.	1.46	1.20	2.11	2.61	3.53	.	M2 III	3	3	3	2
1666		2.79	0.23	0.13	0.14	0.22	0.28	0.41	.	A3 III	9	3	3	1
1670		6.01	0.31	0.27	0.25	0.39	.	.	.	A m	2	5	0	1
1672		5.43	0.39	0.24	0.20	0.32	.	.	.	A2p	2	4	0	1
1674		4.72	0.48	0.52	0.48	0.78	.	.	.	F8 V	6	7	0	4
1676		4.82	0.50	0.32	0.32	0.51	.	.	.	F2 IV	4	3	0	1
1679		4.27	-1.10	-0.20	-0.08	-0.28	.	.	.	B2 IV	3	3	0	1
1689		4.88	0.28	0.18	0.19	0.29	.	.	.	A m	3	3	0	1
1690		6.67	-0.41	-0.07	0.02	-0.11	.	.	.	B8 V	2	2	0	1
1696		4.44	-0.49	-0.09	-0.02	-0.11	.	.	.	B8 V	3	3	0	1
1698	D	4.45	2.33	1.19	0.85	1.44	1.89	2.61	.	K3 III	4	4	3	1
1702		3.29	-0.51	-0.11	-0.01	-0.13	-0.21	-0.28	.	B9 III(p)	4	3	3	1
1705	D	4.36	-0.44	-0.10	-0.01	-0.10	.	.	.	B8 V	3	3	0	1
1708		0.08	1.25	0.80	0.60	1.04	1.37	1.86	1.95	G8 III:+F	6	2	9	1
1713		0.13	-0.68	-0.03	0.01	-0.01	-0.09	-0.07	-0.04	B8 Ia	6	4	9	1
1724		6.42	0.01	-0.02	0.05	0.02	.	.	.	A0 V	2	2	0	1
1726		4.54	2.54	1.27	0.98	1.69	.	.	.	K3 III	3	3	0	1
1729		4.71	0.75	0.62	0.53	0.85	1.07	1.42	.	G0 V	5	6	3	1
1735		3.59	-0.58	-0.12	-0.02	-0.13	.	.	.	B5 III	3	4	0	1
1743		4.83	1.79	1.00	0.74	1.29	1.71	2.36	.	K0 IV	6	3	2	2
1748		6.35	-0.85	-0.11	0.01	-0.13	-0.31	-0.39	-0.23	B1.5 V	3	2	4	1
1756		4.29	-1.26	-0.25	-0.12	-0.40	.	.	.	B0.5 IV	2	3	0	1
1761	*	6.65	-0.54	-0.08	0.04	0.00	.	.	.	B5p	2	2	0	1
1762	D	4.71	-0.15	-0.05	0.05	0.00	.	.	.	A0 V	2	3	0	1
1763		5.80	-1.01	-0.13	0.01	-0.12	-0.35	-0.48	-0.50	B1 V	3	3	5	1
1764		5.69	-0.77	-0.11	-0.02	-0.17	.	.	.	B3 V	3	3	0	1
1765		4.74	-0.95	-0.16	-0.05	-0.23	-0.35	-0.48	-0.48	B2 IV	7	5	3	1
1770	D	5.00	-1.02	-0.15	-0.05	-0.23	-0.36	-0.56	-0.66	B1 V	5	5	2	1
1781		5.70	-1.09	-0.21	-0.08	-0.27	.	.	.	B2 V	9	9	0	1
1784		4.12	1.66	0.96	0.72	1.22	1.60	2.22	.	G8 III	2	3	3	1
1786		6.32	-0.78	-0.15	-0.05	-0.21	.	.	.	B5 V	3	3	0	1
1788	DV	3.35	-1.10	-0.17	-0.09	-0.30	-0.47	-0.59	-0.64	B0.5 V	6	5	7	1
1789		4.96	-1.13	-0.20	-0.08	-0.30	.	.	.	B1 V:pe	5	6	0	1
1790		1.64	-1.10	-0.22	-0.09	-0.31	-0.54	-0.70	-0.71	B2 III	9	5	5	1
1791		1.65	-0.62	-0.13	-0.01	-0.11	-0.32	-0.40	.	B7 III	9	2	3	1
1803		6.16	-0.93	-0.18	-0.06	-0.25	.	.	.	B3 V	3	3	0	1
1806		6.23	-0.28	-0.05	0.01	-0.04	.	.	.	B9 V:	2	2	0	1
1810		4.89	-0.91	-0.14	-0.05	-0.20	.	.	.	B3 V	3	3	0	1
1811	D	4.59	-1.14	-0.20	-0.10	-0.33	.	.	.	B2 IV	5	5	0	1
1820		6.44	-0.92	-0.17	-0.07	-0.25	.	.	.	B2 V	2	2	0	1
1829		2.84	1.29	0.82	0.65	1.09	1.43	1.95	.	G5 III	4	2	3	1
1830		5.78	2.14	1.15	0.83	1.40	1.88	2.60	.	(gG8)	2	2	9	1
1833		5.78	-1.05	-0.20	-0.06	-0.26	.	.	.	B1.5 V	4	4	0	1
1839	D	4.20	-0.69	-0.13	-0.06	-0.20	-0.37	-0.44	-0.43	B5 IV	6	6	3	1
1840		6.32	-1.03	-0.19	-0.08	-0.25	.	.	.	B1.5 V	3	3	0	1
1842	D	5.46	-0.99	-0.17	-0.04	-0.26	-0.46	-0.53	-0.49	B1.5 V	3	3	4	1
1843		4.77	-0.09	0.35	0.37	0.64	.	.	.	B5 Iab	2	2	0	1
1845	V	4.35	4.27	2.06	1.76	3.21	4.03	5.24	5.60	M2 Ib	3	3	7	1
1848		6.21	-0.92	-0.18	-0.06	-0.23	.	.	.	B2 V	2	2	0	1
1852	V	2.24	-1.28	-0.22	-0.08	-0.30	-0.49	-0.66	-0.65	O9.5 II	8	5	9	1
1855		4.62	-1.33	-0.26	-0.12	-0.38	-0.67	-0.90	-1.03	B0 V	9	9	4	1
1861		5.35	-1.12	-0.19	-0.05	-0.24	.	.	.	B1 V	9	9	0	1
1862		3.87	2.22	1.14	0.82	1.42	1.87	2.59	.	(gK1)	6	3	2	2
1863	*D	6.53	-0.74	-0.10	0.00	-0.12	-0.28	-0.35	-0.56	B3 V	2	2	5	1
1865		2.57	0.45	0.20	0.22	0.43	0.52	0.70	.	F0 Ib	5	3	4	1
1868	V	5.34	-1.09	-0.18	-0.05	-0.25	-0.46	-0.57	-0.69	B1 V	8	7	4	1
1871		6.58	-0.96	-0.16	-0.07	-0.28	.	.	.	B2 V	4	4	0	1
1872		5.36	0.12	0.05	0.08	0.12	.	.	.	(A2)	3	3	0	1
1873		6.20	-0.97	-0.16	-0.05	-0.23	.	.	.	B3 V	3	3	0	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
1876		4.41	-1.12	-0.15	-0.01	-0.18	-0.40	-0.57	-0.56	B0 IV	3	3	2	1
1879/80		3.39	-1.22	-0.19	-0.07	-0.24	-0.39	-0.54	.	O8/B0.5 V	5	2	3	1
1886		5.67	-1.15	-0.24	-0.07	-0.28	.	.	.	B1 V	3	3	0	1
1887		4.79	-1.26	-0.25	-0.11	-0.36	.	.	.	B0 V	5	5	0	1
1890		6.57	-0.90	-0.13	-0.06	-0.19	.	.	.	B2 V	3	3	0	1
1891		6.25	-0.85	-0.15	-0.01	-0.18	.	.	.	B3 V	2	2	0	1
1892	D	4.59	-1.13	-0.19	-0.08	-0.26	.	.	.	B2 III	6	6	0	1
1893		6.72	-0.86	0.00	0.31	0.52	.	.	.	B0.5 Vp	2	2	0	1
1895		5.13	-0.95	0.00	0.22	0.40	.	.	.	O6p	4	4	0	1
1896		6.70	-0.74	0.08	0.29	0.48	.	.	.	B0.5 Vp	3	2	0	1
1893-6		4.58	-0.81	0.05	0.22	0.43	0.44	0.82	1.25	(Trap.)	2	2	4	1
1897		5.08	-1.05	-0.11	0.11	0.10	0.06	0.13	0.72	O9.5 Vp	9	6	7	1
1898		6.31	-0.84	-0.13	-0.02	-0.18	.	.	.	B2-3	3	3	0	1
1899	D	2.77	-1.32	-0.24	-0.07	-0.26	-0.54	-0.73	-0.76	O9 III	9	7	6	1
1900		6.40	-0.76	-0.12	-0.01	-0.13	.	.	.	B3 V	3	3	0	1
1901		5.27	0.40	0.23	0.29	0.43	.	.	.	(gF0)	3	1	0	1
1903	V	1.69	-1.21	-0.18	-0.07	-0.24	-0.38	-0.49	-0.46	B0 Ia	9	9	9	1
1905		5.54	0.32	0.22	0.21	0.33	.	.	.	(A5)	2	4	0	1
1907		4.09	1.61	0.95	0.76	1.31	1.74	2.40	.	G8 III-IV	4	3	3	1
1908		5.90	3.53	1.60	1.19	2.13	2.75	3.78	.	K4 II	2	2	1	1
1910		3.03	-0.81	-0.19	-0.03	-0.12	-0.17	0.09	.	B2 III:p	4	3	3	1
1911		5.74	-1.13	-0.22	-0.06	-0.31	.	.	.	B1 V	2	2	0	1
1918		6.06	-1.13	-0.21	-0.07	-0.32	.	.	.	B1 V	2	2	0	1
1925		6.23	1.35	0.84	0.69	1.12	.	.	.	(dK2)	3	4	0	3
1931	D	3.80	-1.25	-0.24	-0.08	-0.32	-0.53	-0.70	-0.72	O9.5 V	6	5	2	1
1934		4.59	-0.86	-0.11	0.02	-0.08	-0.16	-0.23	-0.22	B3 IIIe	5	5	5	1
1937		4.81	0.24	0.13	0.15	0.21	.	.	.	A4 IV	5	5	0	1
1938		6.04	-0.16	0.05	0.11	0.16	0.23	0.13	.	B7 V	9	9	1	1
1946	D	4.86	-0.75	-0.12	-0.01	-0.13	.	.	.	B3 IV	3	3	0	1
1948/9		1.77	-1.27	-0.21	-0.08	-0.28	-0.44	-0.57	-0.56	O9.5 Ib	7	4	9	1
1956		2.64	-0.59	-0.12	-0.02	-0.12	-0.17	-0.20	.	B8 Ve	6	3	2	2
1963		4.90	2.23	1.17	0.88	1.49	2.01	2.79	.	K1 III	5	2	3	1
1971		5.47	0.10	0.03	0.08	0.09	.	.	.	A0p	3	3	0	1
1977	V	6.96	.	3.03	2.21	3.73	4.70	6.67	.	C7,4e (N2)	4	4	2	2
1983		3.60	0.48	0.47	0.45	0.71	0.90	1.19	.	F6 V	7	3	4	1
1995		4.53	1.63	0.94	0.73	1.22	1.61	2.19	.	G8 III	7	4	2	1
1998		3.55	0.16	0.10	0.12	0.15	.	.	.	A3 V	9	7	0	1
2004		2.05	-1.20	-0.18	-0.02	-0.20	-0.43	-0.55	-0.55	B0.5 Ia	6	3	6	1
2010		4.91	-0.23	-0.07	0.02	-0.06	.	.	.	B9 IV	9	4	0	1
2011		4.74	3.55	1.62	1.36	2.43	3.01	4.06	.	(gM1)	2	2	2	1
2012		3.97	2.23	1.14	0.82	1.38	1.79	2.46	.	K0 III	2	3	3	1
2018		6.25	3.77	1.75	1.55	2.94	3.78	4.92	.	M3 III	4	2	3	1
2029		5.00	0.17	0.05	0.09	0.11	.	.	.	A2p?	2	3	0	1
2034		4.59	0.01	-0.02	0.04	0.04	.	.	.	B9.5 V	4	5	0	1
2035		3.85	1.69	0.98	0.86	1.42	1.86	2.54	.	G8 III	2	3	3	1
2040		3.12	2.37	1.16	0.85	1.43	1.87	2.59	.	K2 III	6	3	2	2
2047		4.41	0.67	0.59	0.51	0.82	.	.	.	G0 V	9	3	0	1
2056		4.87	-0.71	-0.15	-0.07	-0.22	-0.27	-0.48	.	B5 V	6	3	1	2
2061	V	0.42	3.96	1.84	1.64	2.92	3.42	4.42	4.72	M1-M2 Iab	JD2438400			
2077		3.72	1.90	0.99	0.77	1.27	1.63	2.26	.	K0 III	5	5	3	1
2084		4.82	-1.00	-0.06	0.06	-0.05	.	.	.	B1 Ib	6	3	0	1
2085		3.72	0.33	0.33	0.33	0.49	0.60	0.82	.	F0 V	7	3	3	1
2088	V	1.90	0.07	0.03	0.08	0.07	0.05	0.04	.	A2 V	6	3	3	1
2091	V	4.25	3.55	1.72	1.69	3.17	3.95	5.10	5.33	M3.5 II	3	3	4	1
2095	D	2.62	-0.26	-0.08	0.00	-0.06	-0.11	-0.13	.	B9.5p V	3	3	3	1
2106		4.36	-0.84	-0.18	-0.07	-0.24	-0.31	-0.44	.	B3 IV	6	3	1	2
2113		4.52	2.43	1.22	0.93	1.60	2.18	2.98	.	K2 III	3	3	3	1
2120		3.96	2.22	1.14	0.82	1.40	1.83	2.49	.	K0 III	6	8	2	2
2124	D	4.13	0.27	0.16	0.19	0.27	.	.	.	A m	6	9	0	1
2128		4.94	-0.70	-0.12	-0.03	-0.12	.	.	.	B5 IV	3	3	0	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
2134		4.15	1.39	0.87	0.68	1.13	1.44	2.02	.	(gG5)	2	2	3	1
2135		4.63	-0.39	0.28	0.31	0.53	0.56	0.72	0.87	B2 Ia	6	4	5	1
2155		4.67	0.05	0.05	0.09	0.09	.	.	.	A1 V	3	3	0	1
2159		4.42	-0.82	-0.15	-0.06	-0.22	.	.	.	B3 V	2	2	0	1
2198		4.92	-0.71	-0.12	-0.02	-0.16	.	.	.	B5 V	2	2	0	1
2199		4.48	-0.83	-0.17	-0.05	-0.21	-0.33	-0.46	-0.53	B3 V	3	2	1	1
2209		4.80	0.03	0.03	0.07	0.06	.	.	.	A0 V	4	3	0	1
2216	V	3.28	3.27	1.61	1.49	2.80	3.51	4.59	.	M3 III	3	3	3	1
2219		4.35	1.82	1.01	0.80	1.34	1.76	2.41	.	G8 III	7	3	3	1
2227		3.96	2.73	1.31	0.97	1.61	2.13	2.91	.	K3 III	3	3	3	1
2228		6.52	0.36	0.27	0.27	0.41	.	.	.	F0 V	3	3	0	1
2230		6.09	1.52	0.90	0.69	1.18	.	.	.	G5 III	3	3	0	1
2238		4.48	0.04	0.01	0.06	0.05	.	.	.	A2 V	4	4	0	1
2240		6.25	0.06	0.45	0.47	0.87	.	.	.	B3 Ia	6	1	0	1
2244		5.01	-0.33	-0.09	0.02	-0.03	.	.	.	B8 V	2	3	0	1
2256		4.37	1.83	1.00	0.73	1.24	1.55	2.15	.	G8 III	6	8	3	2
2261		5.09	1.05	0.72	0.61	0.93	.	.	.	G5 V	6	5	0	4
2282		3.02	-0.90	-0.18	-0.05	-0.23	.	.	.	B2.5 V	3	3	0	1
2286		2.87	3.50	1.64	1.57	2.95	3.67	4.76	.	M3 III	3	3	3	1
2291		5.64	0.36	0.24	0.22	0.32	.	.	.	A5m	3	3	0	1
2294		1.97	-1.20	-0.24	-0.14	-0.38	-0.56	-0.69	.	B1 II-III	8	3	3	1
2296		3.85	1.40	0.88	0.67	1.14	1.44	1.98	.	(gG4)	6	8	3	2
2298/9		4.31	0.34	0.20	0.19	0.29	.	.	.	A5 IV /dF4	2	3	0	1
2308	V	5.23	5.84	2.34	1.83	3.11	4.13	5.53	.	C6.2	2	2	3	1
2326		-0.75	.	0.15	0.24	0.44	0.38	0.56	.	F0 Ib-II	2	2	3	2
2343		4.14	-0.63	-0.14	-0.03	-0.14	.	.	.	B7 IV	3	3	0	1
2344		5.05	-0.95	-0.18	-0.10	-0.27	.	.	.	B2 V	3	3	0	1
2356-8		3.76	-0.89	-0.15	-0.01	-0.17	.	.	.	B3 Vpe	2	3	0	1
2361		4.48	-0.78	-0.17	-0.06	-0.22	-0.23	-0.45	.	(B5)	6	8	1	2
2382		5.83	1.78	1.00	0.72	1.25	.	.	.	K0 III	9	1	0	1
2385		4.50	-0.18	0.00	0.10	0.14	.	.	.	A0 Ib	7	3	0	1
2387		4.33	-1.22	-0.24	-0.12	-0.39	.	.	.	B0.5 IV	3	3	0	1
2392		5.24	1.88	1.11	0.75	1.23	1.64	2.21	.	B8 II (K0p)	2	2	1	1
2405		5.29	.	2.60	1.97	3.40	4.36	6.00	.	C5.3 (N3)	5	4	2	2
2414		4.54	-0.07	-0.06	0.04	0.02	.	.	.	A0 V	3	3	0	1
2421		1.92	0.05	0.00	0.06	0.05	0.02	0.02	.	A0 IV	9	4	3	1
2427		4.79	2.53	1.23	0.90	1.50	2.00	2.74	.	K3 II-III	4	2	2	1
2429		3.92	2.04	1.05	0.79	1.30	1.67	2.32	.	K1 IV	2	2	3	1
2443		4.42	2.19	1.15	0.86	1.46	1.88	2.61	.	K1 II-III	6	3	2	1
2450		4.81	3.17	1.49	1.03	1.76	.	.	.	K3 III	2	3	0	1
2451		3.17	-0.52	-0.11	0.00	-0.07	-0.22	-0.24	.	B8 III	3	7	1	2
2456	D	4.66	-1.31	-0.24	-0.11	-0.33	-0.63	-0.66	.	O7	9	8	1	1
2467		6.37	-0.99	-0.05	0.07	0.02	.	.	.	O6	8	2	0	1
2470	D	4.87	0.15	0.08	0.12	0.15	.	.	.	(A2n)	2	3	0	1
2473		2.98	2.86	1.40	0.96	1.57	1.99	2.76	.	G8 Ib	7	3	3	1
2478		4.49	2.33	1.16	0.86	1.46	1.92	2.65	.	K1 III	3	3	3	1
2484		3.36	0.49	0.43	0.39	0.62	0.79	1.06	.	F5 IV	5	3	3	1
2491		-1.46	-0.05	0.00	0.00	-0.03	-0.12	-0.15	-0.17	A1 V	5	4	9	1
2506		4.46	2.15	1.11	0.79	1.34	.	.	.	K0 III	6	2	0	1
2527		4.55	3.02	1.36	1.02	1.73	.	.	.	K4 III	3	3	0	1
2538		3.95	-1.16	-0.23	-0.10	-0.30	.	.	.	B2 Ve	2	4	0	1
2540		3.60	0.24	0.10	0.10	0.18	.	.	.	A3 III	6	2	0	1
2560	D	4.35	1.36	0.85	0.65	1.09	1.46	2.02	.	G5 III-IV	3	3	3	1
2564	D	4.65	0.38	0.30	0.32	0.52	.	.	.	F0 Vp	3	3	0	1
2571		4.83	-1.17	-0.21	-0.12	-0.34	.	.	.	B1 IV	3	4	0	1
2574		4.08	3.12	1.43	1.13	1.91	2.48	3.42	.	K4 III	6	3	3	1
2580		3.92	3.71	1.71	1.17	1.99	2.66	3.47	.	K3 Iab	3	3	3	1
2585		4.90	0.08	0.03	0.05	0.06	.	.	.	A2 V	7	4	0	1
2590	D	4.69	0.42	0.36	0.38	0.57	.	.	.	(gF2)	2	3	0	1
2591		6.32	.	2.24	1.73	3.03	3.94	5.44	.	C8.2 (N)	5	5	2	2

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
2596		4.37	-0.76	-0.06	0.05	-0.02	.	.	.	B3 II	5	3	0	1
2608		4.95	3.61	1.69	1.48	2.66	3.29	4.41	.	(gM1)	6	5	3	2
2618		1.50	-1.14	-0.21	-0.09	-0.30	-0.47	-0.65	.	B2 II	7	9	3	1
2646		3.43	3.59	1.72	1.32	2.32	2.93	3.92	.	M0 Iab	3	9	2	1
2648		5.00	-1.13	-0.20	-0.06	-0.25	.	.	.	B1 V	4	5	0	1
2653		3.01	-0.88	-0.08	0.01	-0.08	-0.19	-0.22	.	B3 Ia	4	4	3	1
2657		4.12	-0.59	-0.11	-0.01	-0.11	.	.	.	B8 II	4	2	0	1
2667/8		5.28	.	0.66	0.23	0.57	.	.	.	G3 V	3	9	0	4
2693		1.84	1.21	0.67	0.51	0.84	1.04	1.42	1.52	F8 Ia	9	9	3	1
2697		4.42	2.66	1.26	0.96	1.59	2.04	2.83	.	K2 III	3	3	3	1
2701		4.92	1.81	1.03	0.79	1.31	1.73	2.38	.	K0 III	5	3	2	1
2702		4.83	-0.87	-0.18	-0.07	-0.22	-0.38	-0.70	.	B3 V	3	6	1	2
2714		4.15	0.04	0.00	0.06	0.07	.	.	.	A0 IV	3	3	0	1
2740		4.49	0.31	0.32	0.32	0.54	0.62	0.78	.	F0 V	6	7	1	2
2745	V	4.65	-0.89	-0.20	0.01	-0.08	-0.13	-0.07	.	B3 IIIpe	3	7	2	1
2748	V	5.10	.	1.56	2.72	5.09	5.50	6.88	.	(gM5e)	4	4	2	2
2749		3.82	-0.92	-0.18	0.02	-0.08	-0.41	-0.46	.	B3 Ve	3	8	3	1
2751		5.05	0.17	0.08	0.15	0.21	.	.	.	A3 III-IV	5	5	0	1
2762		4.76	-0.39	-0.10	-0.01	-0.09	-0.15	-0.39	.	(B8)	3	4	2	2
2763		3.58	0.21	0.12	0.12	0.17	.	.	.	A3 V	9	4	0	1
2764		4.78	3.57	1.70	1.32	2.28	.	.	.	(gM0)	5	4	0	1
2766		4.60	3.50	1.60	1.48	2.73	3.30	4.40	.	(gM3)	3	8	2	1
2773		2.70	2.87	1.62	1.24	2.15	2.79	3.77	.	K5 III	6	4	2	2
2777	D	3.53	0.38	0.34	0.35	0.54	0.67	0.91	.	F0 IV	9	4	2	1
2781	V	4.95	-1.15	-0.15	0.00	-0.13	.	.	.	O7f (Var)	4	5	0	1
2782		4.40	-1.14	-0.15	-0.04	-0.22	.	.	.	O9 III	9	4	0	1
2787		4.67	-0.89	-0.10	0.10	0.05	.	.	.	B3 Ve	9	3	0	2
2790		5.11	-0.83	-0.16	-0.06	-0.27	.	.	.	B3 V	6	2	0	4
2812		4.96	-0.43	-0.05	0.06	0.02	.	.	.	(B8)	8	4	0	1
2818		4.64	-0.04	-0.02	-0.01	-0.06	.	.	.	A1 IV	3	3	0	1
2821		3.79	1.88	1.04	0.77	1.27	1.71	2.33	.	K0 III	4	4	2	1
2827		2.44	-0.80	-0.09	0.07	0.01	-0.11	-0.13	.	B5 Ia	5	5	2	1
2828		4.99	1.79	1.01	0.73	1.23	.	.	.	G8 III	3	3	0	1
2845		2.89	-0.37	-0.09	-0.01	-0.07	-0.17	-0.17	.	B8 V	4	4	3	1
2852		4.18	0.30	0.32	0.32	0.51	0.60	0.82	.	F0 V	9	9	4	1
2854		4.30	2.96	1.43	1.11	1.90	2.50	3.41	.	K3 III	4	4	3	1
2864		4.55	2.66	1.29	0.90	1.54	.	.	.	K2 III	3	2	0	1
2874		4.84	0.43	0.24	0.27	0.54	.	.	.	A5 Ib	4	5	0	1
2878		3.25	3.29	1.52	1.21	2.13	2.69	3.66	.	K5 III	6	3	2	2
2881		4.65	1.56	0.93	0.67	1.14	1.43	1.89	.	G1 Ib	6	2	2	2
2890/1		1.58	0.05	0.04	0.06	0.05	0.03	0.05	0.07	A1 V+A m	9	4	9	1
2905		4.06	3.48	1.54	1.24	2.15	2.81	3.76	.	M0 III	3	3	3	1
2906		4.45	0.58	0.51	0.51	0.78	.	.	.	F5 V	7	3	0	1
2922		4.61	-0.55	-0.12	-0.03	-0.14	.	.	.	(B8)	3	7	0	1
2930		4.91	0.51	0.40	0.39	0.61	.	.	.	F3 III	7	3	0	1
2937		4.53	-0.40	-0.09	-0.02	-0.09	-0.18	-0.37	.	B8 V	6	3	1	2
2943		0.37	0.45	0.42	0.42	0.65	0.77	1.01	1.04	F5 IV-V	9	3	9	1
2944	D	4.70	-0.46	-0.11	0.01	-0.08	.	.	.	(B8)	3	8	0	1
2946		4.99	0.17	0.08	0.18	0.22	.	.	.	A3 III	3	2	0	1
2948/9		3.80	-0.75	-0.19	-0.04	-0.20	.	.	.	B6 V /B7 V	3	5	0	1
2961		4.85	-0.84	-0.19	-0.08	-0.24	-0.41	-0.61	.	(B3n)	6	3	1	2
2967		5.56	3.55	1.64	1.60	3.02	.	.	.	M2 III	3	3	0	1
2970		3.93	1.90	1.02	0.77	1.29	1.68	2.31	.	K0 III	4	4	2	1
2973		4.29	2.09	1.12	0.92	1.50	1.94	2.64	.	K1 III	4	3	2	1
2974		6.56	2.01	1.18	0.87	1.54	.	.	.	G0 Ia	3	3	0	1
2985	D	3.57	1.62	0.92	0.71	1.16	1.55	2.11	.	G8 III	9	5	3	1
2990		1.14	1.86	1.00	0.75	1.25	1.63	2.23	2.31	K0 III	9	4	9	1
2993		4.59	3.61	1.63	1.31	2.28	2.82	3.81	.	(gK5)	3	6	2	1
2996		3.95	0.13	0.18	0.26	0.48	.	.	.	A3ep II	3	6	0	1
3003		4.87	3.22	1.46	1.15	1.98	2.59	3.54	.	K5 III	6	3	3	1

TABLE 2 UBVRIJKL PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
3017		3.61	3.43	1.73	1.35	2.35	2.93	4.08	.	(cK)	3	3	1	2
3034		4.52	-1.07	-0.05	0.15	0.13	.	.	.	B0 V:pe	3	6	0	1
3045		3.35	2.43	1.25	0.88	1.43	1.85	2.47	.	G3 Ib	3	3	3	1
3046		4.71	1.98	1.06	0.76	1.33	1.73	2.40	.	K0 III	6	4	1	2
3055		4.11	-1.19	-0.18	-0.08	-0.25	.	.	.	B0.5 III	6	4	0	2
3064		5.16	0.66	0.60	0.52	0.88	.	.	.	G1 V	3	3	0	1
3067		4.98	0.20	0.09	0.13	0.18	.	.	.	A4 V	5	2	0	1
3080		3.73	1.80	1.05	0.81	1.37	.	.	.	G5 III	3	7	0	1
3084		4.49	-0.88	-0.19	-0.08	-0.24	.	.	.	B3 V	6	4	0	2
3089		4.63	-1.15	-0.23	-0.13	-0.34	.	.	.	B2 III	6	3	0	2
3090		4.24	-1.13	-0.14	-0.02	-0.14	.	.	.	B1 Ib	6	4	0	2
3102		4.20	1.16	0.72	0.59	0.96	.	.	.	F8 II	9	4	0	1
3113		4.79	0.31	0.15	0.20	0.35	0.42	0.64	.	A2 V	6	5	3	2
3131		4.61	0.16	0.08	0.15	0.21	.	.	.	A3 V	7	4	0	1
3141		4.67	3.26	1.49	1.17	2.00	.	.	.	K4 III	4	4	0	1
3145		4.38	2.53	1.25	0.99	1.66	2.16	2.97	.	K2 III	6	4	3	1
3165		2.25	-1.36	-0.27	-0.12	-0.34	-0.55	-0.68	.	O5f	8	6	6	1
3173		4.84	0.05	0.05	0.11	0.11	.	.	.	A2 V	3	3	0	1
3185	V	2.81	0.62	0.43	0.35	0.56	0.72	0.93	.	F6 IIp	5	3	3	1
3188		4.32	1.69	0.97	0.73	1.19	1.50	2.04	.	G2 Ib	4	4	3	1
3192		4.40	-0.75	-0.15	-0.03	-0.17	.	.	.	B5 V	4	4	0	1
3206		4.27	.	-0.24	-0.11	-0.29	.	.	.	(B3n)	5	5	0	2
3207		1.83	-1.19	-0.25	-0.02	-0.17	-0.28	-0.14	.	WC7+O7:	3	8	4	2
3211		4.72	1.73	0.96	0.73	1.21	1.56	2.15	.	K0 III	3	3	3	1
3225		4.45	3.47	1.62	1.20	2.10	2.73	3.70	.	(cK)	3	3	4	2
3226		4.75	0.25	0.18	0.24	0.46	0.59	0.75	.	(A3p)	9	3	4	2
3237		4.77	-1.09	-0.11	0.09	0.00	0.06	0.40	.	B3p	6	3	1	2
3243		4.44	2.26	1.17	0.84	1.48	1.96	2.70	.	(gK0)	3	3	4	2
3249		3.53	3.25	1.48	1.12	1.90	2.44	3.37	3.52	K4 III	9	9	9	1
3270		4.45	0.33	0.22	0.21	0.34	0.33	0.45	.	A7 III	6	3	1	2
3275		4.25	3.46	1.55	1.20	2.08	2.69	3.67	3.86	K5 III	4	4	6	1
3279		5.58	1.27	0.77	0.64	1.09	.	.	.	G2 III + A	3	3	0	1
3282		4.83	3.05	1.45	1.00	1.75	2.33	3.18	.	M0 III	6	3	4	2
3294	D	4.82	-0.99	-0.15	-0.04	-0.17	-0.32	-0.35	.	B1 V	6	3	1	2
3306		5.13	1.58	0.94	1.25	1.19	.	.	.	G8 II	3	1	0	4
3314		3.90	-0.05	-0.02	0.03	-0.02	.	.	.	A0 V	9	3	0	1
3319		5.50	3.52	1.60	1.62	3.03	3.80	4.96	5.19	(gM3)	6	4	5	2
3323		3.36	1.37	0.85	0.69	1.11	1.38	1.92	.	G5 III	4	3	3	1
3391		5.64	0.69	0.62	0.52	0.85	.	.	.	G0 V	3	4	0	1
3403		4.61	2.33	1.17	0.89	1.52	.	.	.	K2 III	3	3	0	1
3407		5.01	2.71	1.33	0.97	1.65	2.18	2.99	.	(gG7)	6	3	4	2
3410		4.17	0.02	0.00	0.04	0.05	.	.	.	A0 V	4	3	0	1
3418		4.43	2.48	1.20	0.89	1.45	1.90	2.64	.	K2 III	3	3	3	1
3426		4.14	0.23	0.10	0.15	0.31	0.36	0.50	.	A9 II	6	3	1	2
3427		6.39	1.81	0.98	0.72	1.19	1.64	2.16	2.19	K0 III	9	9	2	1
3428		6.44	1.92	1.02	0.74	1.23	1.65	2.25	2.42	K0 III	5	4	2	1
3429		6.30	0.33	0.17	0.17	0.23	.	.	.	A6 III	3	4	0	1
3438		3.98	1.58	0.93	0.66	1.14	.	.	.	G5 III	6	3	0	2
3441		4.88	1.99	1.07	0.82	1.35	.	.	.	K1 III	8	6	0	1
3445		3.83	0.98	0.70	0.63	1.23	.	.	.	F2 Ia	3	3	0	2
3447		3.60	-0.80	-0.18	-0.06	-0.24	.	.	.	B3 III	6	3	0	4
3449		4.66	0.03	0.02	0.06	0.06	.	.	.	A1 V	4	4	0	1
3452		4.77	0.24	0.12	0.21	0.40	.	.	.	A5 II	6	3	0	2
3454		4.30	-0.94	-0.20	-0.07	-0.26	.	.	.	B3 V	9	9	0	1
3459		4.61	1.35	0.84	0.65	1.09	.	.	.	G2 Ib	4	4	0	1
3461		3.94	2.07	1.08	0.78	1.32	1.75	2.43	.	K0 III	3	4	3	1
3464		6.13	1.57	0.94	0.70	1.19	.	.	.	G5 III	3	4	0	1
3468		3.69	-1.05	-0.18	-0.08	-0.24	.	.	.	B2 II	6	3	0	2
3474/5		4.02	1.81	1.03	0.75	1.24	1.56	2.14	.	G8 II/A3 V	4	4	3	1
3477		4.07	1.39	0.87	0.63	1.13	.	.	.	(sgG5)	6	3	0	2

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
3482	D	3.38	1.05	0.68	0.60	0.99	1.33	1.66	.	G0III-IV+dF7	7	3	3	1
3484		4.32	1.54	0.90	0.68	1.14	1.55	2.13	.	G8 III	5	6	2	1
3485	D	1.96	0.11	0.04	0.05	0.09	.	.	.	A0: V	6	3	0	2
3487		3.91	-0.05	0.00	0.05	0.18	.	.	.	A0 III	6	3	0	2
3492		4.37	-0.10	-0.05	0.05	-0.02	.	.	.	A0 V	3	2	0	1
3518		4.01	2.66	1.26	0.95	1.62	2.11	2.92	.	K4 III	5	7	4	1
3527		5.10	-1.19	-0.21	-0.08	-0.24	.	.	.	B0 III	6	3	0	2
3541	V	6.64	.	3.36	2.28	3.65	4.54	6.45	.	C5,4	3	4	1	2
3547		3.10	1.82	1.00	0.71	1.20	1.62	2.23	2.31	K0 II-III	3	2	6	1
3556		4.89	0.23	0.10	0.13	0.18	.	.	.	A3 V	3	8	0	1
3569		3.14	0.26	0.19	0.22	0.29	0.39	0.43	.	A7 V	9	5	3	1
3572		4.26	0.28	0.13	0.14	0.18	.	.	.	A m	3	3	0	1
3576		4.76	3.41	1.53	1.47	2.73	3.43	4.47	4.68	M3 IIIb	5	5	8	1
3579		3.97	0.49	0.43	0.40	0.62	.	.	.	F5 V	9	3	0	1
3591		4.45	1.03	0.65	0.55	0.96	.	.	.	F8 III	6	3	0	2
3594		3.60	0.01	0.00	0.07	0.08	.	.	.	(B9n)	5	5	0	1
3595		5.46	-0.13	-0.03	0.02	-0.02	.	.	.	B9p	3	4	0	1
3612		4.56	1.85	1.04	0.75	1.24	.	.	.	G8 Ib-II	5	5	0	1
3614		3.75	2.41	1.20	0.82	1.42	1.86	2.56	.	K2 III	6	3	4	2
3616	D	4.81	0.51	0.49	0.45	0.73	.	.	.	F7 IV-V	4	2	0	1
3619		4.48	0.39	0.27	0.27	0.38	.	.	.	A m	7	4	0	1
3624		4.67	0.50	0.35	0.32	0.45	.	.	.	A7m	7	3	0	1
3628		4.56	3.48	1.61	1.24	2.14	2.75	3.72	.	(gM0)	3	8	3	1
3634		2.21	3.46	1.65	1.24	2.18	2.77	3.78	.	K5 Ib	3	2	3	2
3654		5.00	-0.35	0.22	0.29	0.51	0.54	0.73	.	B3 Ia	3	3	1	2
3662		4.84	0.27	0.18	0.25	0.34	.	.	.	A5 V	7	4	0	1
3665		3.88	-0.19	-0.07	-0.01	-0.06	.	.	.	B9.5 Vp	9	9	0	1
3682		4.94	2.17	1.11	0.79	1.36	1.85	2.52	.	(gK0)	6	3	3	2
3684		4.62	0.55	0.45	0.38	0.66	0.75	1.05	.	F4 III	6	3	1	2
3685		1.68	0.03	0.00	0.07	0.09	.	.	.	A1 IV	3	9	0	4
3690	D	3.82	0.11	0.06	0.12	0.15	.	.	.	A2 V	3	3	0	1
3705		3.13	3.50	1.55	1.23	2.13	2.74	3.74	3.87	M0 III	4	4	8	1
3706		4.81	1.54	0.93	0.72	1.19	.	.	.	G8 III	3	4	0	1
3709		4.79	1.61	0.94	0.70	1.14	.	.	.	G8 III-IV	4	4	0	1
3718		4.72	3.64	1.61	1.40	2.48	3.14	4.20	.	M1 III	4	9	3	1
3731		4.46	2.54	1.23	0.91	1.54	2.04	2.78	.	K2 III	3	3	3	1
3733		4.68	1.54	0.91	0.71	1.18	1.49	2.05	.	(gG7)	4	9	2	1
3734		2.50	-0.93	-0.18	-0.04	-0.24	.	.	.	B2 IV	6	2	0	4
3748		1.97	3.17	1.45	1.04	1.81	2.30	3.16	3.34	K4 III	6	2	7	1
3749		4.68	2.30	1.13	0.88	1.44	.	.	.	(gK3)	3	3	0	1
3751		4.30	3.20	1.48	1.13	1.87	.	.	.	K3 III	3	3	0	1
3757		3.67	0.43	0.33	0.34	0.52	0.66	0.85	.	F0 IV	5	3	3	1
3759		4.61	0.46	0.45	0.43	0.65	.	.	.	F6 V	9	4	0	1
3765		4.51	3.12	1.44	1.01	1.77	2.29	3.17	.	M0 III	6	3	3	2
3771		4.57	1.10	0.77	0.66	1.07	1.41	1.89	.	G4 IV	4	3	3	1
3773		4.31	3.43	1.54	1.23	2.13	2.71	3.69	3.84	K5 III	4	5	7	1
3775		3.18	0.49	0.46	0.44	0.71	0.90	1.16	.	F6 IV	8	2	3	1
3786	D	3.60	0.29	0.36	0.36	0.58	0.62	0.84	.	F2 IV	3	6	1	1
3787		4.57	0.20	0.10	0.16	0.22	.	.	.	A3 III	4	4	0	1
3799		4.51	0.04	0.00	0.09	0.10	.	.	.	A2 V	3	3	0	1
3800		4.55	1.55	0.92	0.71	1.17	.	.	.	G8 III	3	3	0	1
3809		4.81	1.75	0.99	0.76	1.29	.	.	.	K0 III	4	4	0	1
3815		5.41	1.21	0.77	0.62	0.99	.	.	.	G8 IV-V	9	9	0	1
3834		4.68	2.77	1.32	1.06	1.77	2.31	3.18	.	K3 III	7	5	3	1
3836		4.35	0.29	0.17	0.15	0.25	0.27	0.36	.	(dA5)	6	3	1	2
3845		3.91	2.77	1.32	0.99	1.66	2.18	3.01	3.16	K3 III	5	5	7	1
3849		5.05	-0.73	-0.15	-0.07	-0.22	.	.	.	B5 V	4	5	0	1
3852		3.52	0.70	0.49	0.41	0.64	0.84	1.09	.	A5 V+F8 III	5	3	3	1
3858		4.78	-0.70	-0.12	0.02	-0.07	.	.	.	B5 V	4	4	0	1
3871		4.79	0.86	0.50	0.47	0.79	1.10	1.52	.	F7 V	5	7	1	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
3873		2.98	1.27	0.81	0.65	1.05	1.35	1.83	.	G0 II	8	4	4	1
3881		5.10	0.70	0.62	0.53	0.87	1.05	1.38	.	G1 V	2	2	2	1
3888		3.81	0.38	0.29	0.34	0.50	0.57	0.81	.	F2 IV	8	4	3	1
3894	D	4.60	0.11	0.03	0.10	0.10	.	.	.	(A3s)	3	4	0	1
3903		4.11	1.57	0.92	0.69	1.16	1.55	2.09	.	G8 III	5	2	3	1
3905		3.88	2.62	1.22	0.91	1.49	1.95	2.66	.	K2 III	4	4	3	1
3912		4.58	2.19	1.20	0.83	1.46	1.87	2.58	.	(gG4)	6	5	1	2
3950		4.70	3.52	1.60	1.43	2.51	3.16	4.20	4.37	M2 III	4	5	7	1
3970		4.59	-0.37	-0.10	-0.01	-0.10	.	.	.	B8 V	4	4	0	1
3974		4.49	0.25	0.18	0.18	0.25	.	.	.	A7 V	9	9	0	1
3975		3.53	-0.25	-0.04	0.09	0.11	0.09	0.10	.	A0 Ib	4	4	3	1
3980		4.37	3.20	1.45	1.13	1.90	2.46	3.33	.	K4 III	3	2	3	1
3981		4.50	-0.10	-0.04	0.06	0.01	.	.	.	A0 III	3	3	0	1
3982		1.35	-0.47	-0.11	-0.02	-0.12	-0.20	-0.27	-0.25	B7 V	9	8	9	1
3994		3.61	1.92	1.00	0.77	1.25	1.64	2.20	.	K0 III	5	5	3	1
3998		5.44	0.48	0.46	0.41	0.68	.	.	.	F6 V	3	4	0	1
4023		3.85	0.13	0.05	0.02	0.04	0.08	0.11	.	A2 V	6	4	3	2
4031		3.44	0.50	0.31	0.31	0.50	0.63	0.82	.	F0 III	9	5	3	1
4033		3.45	0.09	0.03	0.08	0.07	0.05	0.07	.	A2 IV	9	5	3	1
4039		5.82	0.45	0.50	0.48	0.75	0.96	1.38	.	(dF3)	6	3	1	1
4054		4.80	0.46	0.45	0.45	0.68	.	.	.	F6 IV	9	3	0	1
4057/8		1.98	2.15	1.15	0.85	1.47	1.89	2.66	2.76	K0 III/G7 III	16	4	9	1
4069		3.05	3.48	1.59	1.28	2.24	2.96	3.93	4.08	M0 III	6	4	6	1
4072		4.99	-0.22	-0.07	0.04	-0.02	.	.	.	A0p	3	3	0	1
4080		4.83	2.21	1.12	0.80	1.38	1.82	2.43	.	K1 III	6	5	3	2
4090		4.74	0.43	0.25	0.26	0.40	.	.	.	F0 V	7	4	0	1
4092		5.56	3.38	1.52	1.25	2.20	2.84	3.79	.	M0 III	5	3	3	1
4094		3.79	3.30	1.48	1.11	1.94	2.49	3.42	3.54	K4 III	3	3	7	1
4100	D	4.21	1.55	0.90	0.69	1.15	1.49	2.05	.	G8 III-IV	2	2	3	1
4104		4.25	3.08	1.45	1.10	1.89	2.47	3.41	.	M0 III	6	5	3	2
4112		4.84	0.51	0.52	0.48	0.76	.	.	.	F8 V	9	3	0	1
4119		5.20	-0.67	-0.14	-0.03	-0.17	.	.	.	B6 V	6	5	0	1
4132		4.75	0.31	0.23	0.20	0.29	.	.	.	A7 IV	3	3	0	1
4133		3.85	-1.09	-0.14	-0.05	-0.21	-0.33	-0.47	.	B1 Ib	9	5	6	1
4141		5.16	0.32	0.34	0.33	0.50	.	.	.	F1 V	6	4	0	1
4153		5.38	.	2.88	2.11	3.48	.	.	.	(Nb)	4	4	0	2
4163	*V	4.82	8.47	2.69	1.77	3.04	4.00	5.57	6.00	C7+3	2	2	9	1
4166		4.72	1.36	0.81	0.68	1.06	.	.	.	G3 II:	5	5	0	1
4167	D	3.84	0.37	0.30	0.25	0.41	0.57	0.72	.	F4IV+F4V+A1V	6	4	2	2
4195	*V	6.00	7.18	2.41	1.74	3.01	3.96	5.58	6.07	C6+3	3	3	9	1
4199		2.76	-1.22	-0.22	-0.11	-0.34	.	.	.	B0 Vp	3	2	0	4
4216	D	2.69	1.47	0.90	0.68	1.17	1.56	2.10	.	G5 III	6	4	2	2
4232		3.11	2.51	1.24	0.93	1.57	2.04	2.83	2.95	K2 III	3	3	8	1
4247		3.83	1.96	1.04	0.83	1.37	1.76	2.44	.	K0 III-IV	5	3	2	1
4248		4.71	-0.11	-0.05	0.05	0.01	.	.	.	A1 V	3	3	0	1
4259/60		4.32	0.03	0.02	0.10	0.09	.	.	.	A1 V	4	5	0	1
4273		4.60	1.87	1.03	0.75	1.28	1.66	2.29	.	G5 III	6	4	3	2
4278		6.00	3.51	1.59	1.49	2.78	.	.	.	M2 III	2	4	0	1
4287		4.07	2.07	1.09	0.80	1.35	1.78	2.45	.	K0 III	5	3	3	1
4293		4.39	0.23	0.11	0.13	0.20	0.31	0.34	.	A2 IV	6	4	2	2
4295		2.37	-0.02	-0.02	0.06	0.02	0.02	0.02	.	A1 V	7	4	3	1
4299		4.75	3.54	1.62	1.33	2.29	2.90	3.92	4.08	K5 III	5	5	7	1
4300		4.42	0.10	0.05	0.06	0.04	.	.	.	A1 V	3	4	0	1
4301		1.79	1.99	1.07	0.81	1.39	1.74	2.44	2.57	K0 III	8	5	5	1
4310		4.63	0.41	0.33	0.33	0.50	.	.	.	F2 III-IV	8	5	0	1
4335		3.01	2.26	1.14	0.84	1.41	1.85	2.57	2.69	K1 III	5	2	7	1
4343		4.48	0.08	0.03	0.07	0.09	.	.	.	A2 III-IV	4	4	0	1
4357		2.56	0.23	0.12	0.13	0.16	0.27	0.31	.	A4 V	6	3	2	1
4359		3.35	0.06	-0.02	0.05	0.02	0.01	0.05	.	A2 V	3	3	3	1
4362		4.63	3.51	1.66	1.56	2.87	3.51	4.63	4.84	M3 III	3	2	7	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
4368		4.47	0.36	0.21	0.27	0.38	.	.	.	A7 III-IV	5	5	0	1
4371		5.18	3.36	1.52	1.27	2.21	2.85	3.76	.	M0 III	4	2	3	1
4374/5		3.79	0.64	0.59	0.54	0.88	1.13	1.53	.	G0 V	9	8	3	1
4377		3.49	2.95	1.40	1.06	1.76	2.31	3.18	3.33	K3 III	7	5	7	1
4380		4.79	0.15	0.12	0.11	0.14	.	.	.	A2 V	3	3	0	1
4382		3.56	2.10	1.11	0.83	1.43	1.87	2.61	2.73	G8 III-IV	4	3	7	1
4386		4.05	-0.19	-0.06	0.02	-0.05	.	.	.	B9 V	5	4	0	1
4392		5.00	1.78	0.98	0.75	1.21	1.64	2.21	.	G8 II	2	2	3	1
4399	D	3.94	0.48	0.41	0.39	0.60	.	.	.	F2 IV	9	3	0	1
4405	D	4.08	0.31	0.21	0.23	0.34	.	.	.	A5 V	4	4	0	1
4418		4.95	1.80	1.00	0.75	1.25	.	.	.	G8 II-III	3	4	0	1
4434		3.85	3.59	1.62	1.31	2.30	2.98	3.99	4.16	M0 III	3	3	4	1
4450		3.54	1.63	0.93	0.70	1.18	1.54	2.09	.	G7 III	3	7	3	1
4456		5.95	-0.81	-0.16	-0.06	-0.24	.	.	.	B3 V	9	9	0	1
4468		4.70	-0.24	-0.08	0.01	-0.06	.	.	.	B9 V	3	2	0	1
4471		4.30	1.75	1.01	0.72	1.24	1.68	2.29	.	G9 III	3	3	3	1
4494		4.70	-0.29	-0.07	0.01	-0.04	-0.05	-0.10	.	(B9)	6	4	2	2
4496		5.34	0.97	0.74	0.61	0.97	1.35	1.74	.	G8 V	5	2	2	1
4514		4.72	1.71	0.97	0.73	1.21	.	.	.	G8 III	7	4	0	1
4517		4.04	3.28	1.50	1.26	2.27	2.91	3.96	4.09	M1 III	5	3	6	1
4518		3.72	2.34	1.18	0.88	1.48	2.00	2.77	2.94	K0 III	4	4	7	1
4527	D	4.53	0.83	0.55	0.53	0.89	.	.	.	G5III-IV+A	8	5	0	1
4534		2.14	0.16	0.08	0.06	0.08	0.11	0.15	.	A3 V	9	9	1	1
4540		3.60	0.66	0.55	0.48	0.76	0.97	1.27	.	F8 V	9	9	4	1
4546		4.46	2.76	1.30	0.94	1.61	2.10	2.90	.	K4 III	3	5	3	2
4550		6.45	0.92	0.75	0.66	1.11	1.51	2.07	.	G8 Vp	9	9	5	1
4552	D	4.28	-0.43	-0.10	0.01	-0.07	-0.08	-0.16	.	B9 IV	6	6	2	2
4554		2.44	0.03	0.00	0.00	-0.03	0.04	0.07	.	A0 V	9	4	5	1
4589		4.67	0.23	0.13	0.16	0.20	.	.	.	A4 V	3	3	0	1
4608		4.12	1.63	0.99	0.74	1.23	1.64	2.22	.	G8 III	5	5	3	1
4618		4.47	-0.82	-0.15	-0.09	-0.26	.	.	.	B6 III	6	2	0	2
4621		2.65	.	-0.09	0.04	-0.08	.	.	.	B2 Ve	2	2	0	2
4623		4.02	0.30	0.32	0.30	0.48	.	.	.	F2 V	9	5	0	1
4630		2.98	2.81	1.34	0.93	1.57	2.07	2.86	3.01	K3 III	5	5	6	1
4633		6.04	0.18	0.11	0.13	0.16	.	.	.	A3 V	4	5	0	1
4638		3.96	-0.76	-0.15	-0.10	-0.26	.	.	.	B4 V	6	4	0	2
4660		3.31	0.15	0.08	0.06	0.06	0.20	0.22	.	A3 V	9	6	5	1
4662		2.58	-0.46	-0.11	-0.04	-0.13	-0.17	-0.22	.	B8 III	9	9	3	1
4684		6.48	0.27	0.18	0.17	0.24	.	.	.	A3m	3	4	0	1
4685		6.27	0.31	0.17	0.13	0.15	.	.	.	A3m	2	4	0	1
4689		3.90	0.09	0.02	0.08	0.08	.	.	.	A2 V	6	6	0	1
4694		6.15	0.38	0.30	0.28	0.42	.	.	.	(A5)	4	3	0	2
4695		4.96	2.31	1.16	0.89	1.50	2.04	2.77	.	K1 III	7	3	3	1
4697		4.74	1.80	1.01	0.79	1.31	.	.	.	G8 III	6	5	0	1
4705		6.20	-0.05	0.00	0.00	-0.03	.	.	.	A0 V	4	4	0	2
4707		4.81	0.76	0.49	0.47	0.80	0.53	0.47	.	A5+G5 III	9	9	1	1
4708		6.40	0.68	0.60	0.43	0.71	.	.	.	(dF7)	3	3	0	4
4716		4.80	1.49	0.87	0.70	1.14	.	.	.	G7 III	6	6	0	1
4717		5.18	0.18	0.08	0.07	0.09	.	.	.	A3 V	3	5	0	1
4719		6.42	0.34	0.27	0.23	0.33	.	.	.	F0 V	3	4	0	1
4725		6.03	2.10	1.10	0.79	1.35	.	.	.	K0 III	3	4	0	1
4732		4.82	.	-0.14	-0.11	-0.26	.	.	.	B5 Vn	3	3	0	2
4733		4.95	0.45	0.27	0.25	0.40	.	.	.	F0p Shell	2	5	0	1
4737		4.37	2.28	1.13	0.83	1.35	1.82	2.47	.	K1 III-IV	5	4	3	1
4738		5.00	0.21	0.08	0.09	0.11	.	.	.	A4 V	2	5	0	1
4743		3.91	-0.96	-0.19	-0.11	-0.31	-0.46	-0.56	.	B3 V	6	7	1	2
4750		6.54	0.29	0.18	0.15	0.24	.	.	.	A3m	2	4	0	1
4751		6.65	0.30	0.22	0.15	0.23	.	.	.	A0p	9	9	0	1
4752		5.29	-0.16	-0.06	0.02	-0.06	.	.	.	A0p (Si)	9	9	0	1
4757		2.94	-0.14	-0.05	-0.05	-0.09	-0.09	-0.11	.	B9.5 V:n	2	3	4	1

TABLE 2 UBVRIJKL PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
4766		5.46	0.15	0.05	0.06	0.03	.	.	.	A2p	5	6	0	1
4775		4.32	0.39	0.37	0.38	0.56	.	.	.	F0 IV	7	6	0	1
4780		6.29	0.20	0.11	0.09	0.12	.	.	.	A4 V	2	5	0	1
4785		4.27	0.64	0.59	0.54	0.85	1.04	1.43	.	G0 V	9	3	3	1
4786		2.64	1.53	0.88	0.61	1.05	1.40	1.94	2.00	G5 III	2	2	6	1
4787		3.89	-0.71	-0.14	0.05	-0.03	0.03	0.14	0.46	B5 IIIe	3	3	5	1
4789		4.81	-0.01	0.00	0.06	0.04	.	.	.	A0 III	7	7	0	1
4802		3.86	0.08	0.05	0.05	0.09	.	.	.	A2 V	6	4	0	2
4803		5.45	0.35	0.32	0.31	0.50	.	.	.	F2 V	4	4	0	1
4807		5.71	3.42	1.60	1.56	2.98	3.61	4.64	4.94	(gM3)	3	4	3	2
4813		4.67	2.58	1.22	0.90	1.51	.	.	.	K2 III	4	4	0	1
4817		4.64	-0.48	-0.08	-0.02	-0.11	-0.22	-0.01	.	B8 IV	6	5	1	2
4819	D	2.17	-0.02	-0.01	0.03	0.03	0.04	-0.01	.	A0 III	3	5	1	2
4825/6		2.74	0.33	0.36	0.29	0.48	0.65	0.86	0.93	F0 V	9	7	7	1
4828		4.88	0.12	0.09	0.08	0.10	0.05	-0.01	.	A1 V	4	4	1	1
4831		4.66	2.11	1.10	0.75	1.32	1.73	2.38	.	(gK1)	6	5	1	2
4837		5.93	1.33	0.86	0.67	1.16	.	.	.	G8 IIIp	2	4	0	1
4845		5.95	0.52	0.55	0.54	0.83	1.04	1.39	1.79	G0 V	6	3	1	1
4846	V	4.87	9.16	2.54	1.75	3.13	4.01	5.73	6.39	C5,4	2	2	9	1
4848		4.65	-0.79	-0.16	-0.11	-0.32	.	.	.	B3 IV	3	2	0	2
4853		1.25	-1.22	-0.23	-0.13	-0.39	.	.	.	B0.5 IV	3	3	0	4
4865		5.70	0.09	0.02	0.04	0.03	.	.	.	A2 V	3	4	0	1
4867		5.85	0.42	0.46	0.44	0.72	.	.	.	F6 V	3	3	0	1
4883		4.94	0.87	0.67	0.55	0.90	1.18	1.56	.	G0 III	5	2	2	1
4888		4.33	2.95	1.37	0.98	1.73	2.29	3.11	.	(gK2)	6	5	1	2
4889		4.27	0.33	0.21	0.20	0.34	0.53	0.63	.	A7 III	6	5	1	2
4898		4.03	-0.92	-0.17	-0.14	-0.41	.	.	.	B5 Ve	3	2	0	2
4900		6.25	0.32	0.27	0.25	0.40	.	.	.	A7p	3	4	0	1
4902		4.80	3.14	1.59	1.57	2.85	3.56	4.67	4.87	M3 III	5	5	6	1
4905		1.77	-0.01	-0.02	-0.02	-0.05	0.05	0.02	.	A0p	7	4	3	1
4910		3.38	3.38	1.59	1.53	2.86	3.55	4.63	4.81	M3 III	6	6	7	1
4914		5.60	0.31	0.34	0.24	0.47	0.76	0.91	0.84	F0 V	2	2	3	3
4915		2.89	-0.44	-0.12	-0.13	-0.19	-0.15	-0.29	.	B9.5p:	2	2	3	3
4914/5		2.84	-0.43	-0.10	-0.04	-0.12	.	.	.	B9.5p:+F0 V	3	3	0	1
4920		4.79	3.52	1.56	1.35	2.30	2.94	3.91	4.10	M1 III	4	4	5	1
4931	D	4.93	0.37	0.36	0.37	0.58	.	.	.	F2 V	9	5	0	1
4932		2.84	1.68	0.94	0.64	1.09	1.48	2.04	2.09	G9 II-III	5	4	6	1
4940		4.71	-0.71	-0.14	-0.06	-0.19	.	.	.	B5 V	6	5	0	2
4942		4.27	-0.95	-0.19	-0.09	-0.28	.	.	.	B2 V	6	5	0	2
4949		5.60	3.22	1.59	1.97	3.76	4.67	5.83	6.10	M5 III	5	3	4	2
4954		4.82	3.32	1.45	1.18	1.99	.	.	.	K5 III	4	4	0	1
4955		5.19	2.26	1.14	0.82	1.40	.	.	.	K1 III	3	4	0	1
4963	D	4.38	0.00	-0.01	0.05	0.05	.	.	.	A1 V	5	5	0	1
4979		4.85	1.01	0.70	0.57	0.93	1.21	1.58	.	(dG3)	6	5	1	2
4983		4.26	0.66	0.58	0.49	0.79	1.02	1.36	1.49	G0 V	9	9	9	1
5017		4.73	0.50	0.30	0.25	0.40	.	.	.	F0 II-IIIp	7	3	0	1
5019		4.74	0.97	0.71	0.58	0.94	.	.	.	G6 V	9	9	0	1
5020		3.00	1.58	0.92	0.60	1.07	1.46	2.02	2.21	G8 III	7	3	6	1
5026		5.49	.	-0.13	-0.08	-0.23	.	.	.	B5 III	3	3	0	2
5028		2.73	0.04	0.03	0.05	0.04	0.02	-0.04	.	A2 V	3	5	1	1
5054/5		2.06	0.05	0.02	-0.04	-0.06	-0.04	-0.05	.	A2 V+A2 V	6	2	3	1
5056	V	0.97	-1.17	-0.23	-0.09	-0.33	-0.53	-0.71	-0.70	B1 V	9	9	9	1
5062		4.02	0.24	0.16	0.17	0.24	.	.	.	A5 V	9	5	0	1
5068		4.75	2.16	1.10	0.79	1.32	.	.	.	K1 III	3	3	0	1
5072		4.98	0.97	0.71	0.61	1.00	.	.	.	G5 V	9	3	0	1
5080	max	4.97	2.29	1.61	2.70	5.12	6.30	7.63	8.05	M6 (gM7e)	JD2438564			
5089	D	3.88	2.20	1.16	0.84	1.43	1.88	2.56	.	G8 III	2	7	1	1
5095		4.69	3.56	1.60	1.46	2.62	3.28	4.36	4.55	M2 III	5	4	5	1
5105		4.94	0.02	0.02	0.08	0.05	.	.	.	A2p	8	5	0	1
5107		3.38	0.20	0.12	0.07	0.13	0.18	0.27	.	A3 Vn	4	4	3	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
5110		4.98	0.45	0.40	0.41	0.71	.	.	.	F2 IV	8	3	0	1
5112		4.70	0.23	0.12	0.11	0.13	.	.	.	A4 V	4	3	0	1
5127	D	4.83	0.32	0.23	0.27	0.40	.	.	.	A7 III	4	3	0	1
5132		2.30	-1.14	-0.22	-0.15	-0.40	.	.	.	B1 V	6	3	0	2
5154		4.66	3.59	1.63	1.40	2.52	3.19	4.25	4.43	M2 III	5	4	5	1
5165		5.60	1.22	0.81	0.64	1.09	.	.	.	G0 II	3	4	0	1
5168		4.23	0.38	0.38	0.33	0.54	0.62	0.84	.	F2 III	6	5	1	2
5185		4.50	0.53	0.48	0.41	0.65	.	.	.	F7 V	9	5	0	1
5190		3.41	-1.07	-0.22	-0.12	-0.33	.	.	.	B2 IV	3	5	0	2
5191		1.86	-0.87	-0.19	-0.12	-0.30	-0.41	-0.54	-0.48	B3 V	9	4	3	1
5192		4.19	2.96	1.50	2.13	4.00	4.66	5.84	6.02	M4 III	9	6	3	2
5193	V	2.94	.	-0.16	0.03	-0.06	.	.	.	B2 V:pne	3	4	0	2
5200		4.07	3.39	1.52	1.20	2.07	2.72	3.70	3.83	K5 III	4	4	7	1
5210/1		4.32	-0.73	-0.13	-0.05	-0.18	.	.	.	B5 Vp/B9 V	3	4	0	2
5214		6.65	0.19	0.12	0.08	0.09	.	.	.	A4 V	3	4	0	1
5217		5.89	.	0.01	0.06	0.06	.	.	.	B5 V	4	4	0	2
5219		4.75	3.61	1.65	1.54	2.82	3.51	4.61	4.78	K5 III	4	4	5	1
5221	D	4.73	-0.70	-0.14	-0.04	-0.17	.	.	.	B5 III	3	4	0	2
5226		4.66	3.46	1.57	1.61	2.97	3.70	4.75	.	(gM3)	4	5	3	1
5231		2.55	-1.13	-0.22	-0.14	-0.34	-0.54	-0.74	.	B2 IV	3	4	1	2
5235		2.68	0.78	0.58	0.44	0.73	0.98	1.31	1.37	G0 IV	9	7	9	1
5248		3.83	-1.04	-0.21	-0.13	-0.35	.	.	.	B2 IV	3	4	0	2
5249		3.87	-1.00	-0.20	-0.14	-0.35	.	.	.	B2 V	6	4	0	2
5260		4.34	0.88	0.60	0.48	0.84	.	.	.	F7 I-II	6	2	0	2
5264		4.26	0.23	0.10	0.15	0.21	.	.	.	A3 III	9	5	0	1
5285		4.36	-0.96	-0.19	-0.11	-0.33	.	.	.	B2 V	6	5	0	2
5287		3.28	2.16	1.12	0.87	1.42	1.85	2.55	2.70	K2 III	4	8	4	1
5288		2.06	1.89	0.99	0.76	1.29	.	.	.	K0 III-IV	2	5	0	2
5291		3.65	-0.13	-0.05	-0.03	-0.10	.	.	.	A0 III	7	4	0	1
5299		5.28	3.24	1.58	1.85	3.51	4.48	5.65	5.84	M4-4.5 III	3	2	6	1
5304		4.83	0.61	0.54	0.44	0.73	.	.	.	F8 IV	8	5	0	1
5313		5.02	-0.56	-0.12	-0.08	-0.21	.	.	.	B9p (Si)	5	5	0	1
5315		4.21	2.79	1.32	1.07	1.82	2.34	3.19	3.26	K3 III	2	2	6	1
5328/9		4.41	0.30	0.20	0.17	0.29	.	.	.	F2 V/A7 IV	2	2	0	1
5338		4.09	0.54	0.51	0.50	0.77	.	.	.	F7 III-IV	5	3	0	1
5340		-0.05	2.51	1.23	0.97	1.62	2.13	2.95	3.09	K2 IIIp	9	6	9	1
5343		5.98	0.31	0.26	0.23	0.35	.	.	.	A6m	3	4	0	1
5350		4.75	0.26	0.20	0.15	0.24	.	.	.	A7 V	3	3	0	1
5351		4.18	0.13	0.08	0.02	0.05	.	.	.	A0p	3	3	0	1
5354		3.55	-0.90	-0.18	-0.10	-0.24	.	.	.	B3 IV	6	5	0	2
5359		4.52	0.22	0.13	0.10	0.14	.	.	.	A8m	9	5	0	1
5361		4.81	1.98	1.06	0.76	1.29	.	.	.	K0 III	4	4	0	1
5365		5.41	0.35	0.38	0.34	0.53	.	.	.	F5 IV-V	5	4	0	1
5367		4.05	-0.14	-0.03	-0.01	-0.03	.	.	.	A0 IV	6	4	0	2
5370		4.86	2.63	1.23	0.89	1.49	.	.	.	K3 III	5	5	0	1
5373		6.33	0.10	0.05	0.06	0.03	.	.	.	A2 V	3	4	0	1
5378		4.42	-0.92	-0.18	-0.11	-0.28	.	.	.	B3 V	3	5	0	2
5381		4.75	2.84	1.31	0.97	1.64	.	.	.	K5 III	5	9	0	1
5384		6.27	0.71	0.63	0.56	0.88	1.13	1.57	1.84	(dG3)	6	3	2	1
5395		4.56	-0.94	-0.15	-0.10	-0.21	.	.	.	B3 III	3	2	0	2
5396	D	4.35	0.61	0.43	0.41	0.76	.	.	.	(dF7)	3	4	0	2
5404		4.06	0.51	0.50	0.42	0.67	.	.	.	F7 V	9	4	0	1
5409		4.82	0.95	0.74	0.58	0.95	.	.	.	G2 III	2	2	0	1
5429		3.59	2.74	1.30	0.92	1.57	2.13	2.93	3.05	K3 III	5	3	6	1
5430		4.25	3.14	1.44	1.05	1.80	.	.	.	K4 III	3	2	0	1
5435		3.02	0.31	0.19	0.14	0.22	0.35	0.45	.	A7 III	5	5	3	1
5440		2.31	-1.01	-0.19	-0.10	-0.28	.	.	.	B1.5 V:ne	3	4	0	2
5447		4.47	0.29	0.37	0.34	0.53	0.69	0.94	1.31	F2 V	9	5	5	1
5453		4.05	-0.71	-0.15	-0.09	-0.20	.	.	.	B5 V	3	3	0	2
5463		3.19	0.36	0.24	0.23	0.33	.	.	.	F0 Vp (Sr)	3	9	0	4

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
5469		2.30	-1.08	-0.20	-0.09	-0.26	.	.	.	B1 V	3	3	0	2
5471		4.00	-0.36	-0.17	-0.11	-0.26	.	.	.	B3 V	3	3	0	2
5475/6		4.54	-0.36	-0.04	0.07	0.05	.	.	.	B9 IIIp/A m	2	2	0	1
5477/8		3.78	0.10	0.05	0.02	0.01	.	.	.	A2 III	8	4	0	1
5485		4.05	2.38	1.35	1.01	1.74	.	.	.	K5 III	3	4	0	2
5487		3.88	0.37	0.38	0.40	0.62	0.73	0.99	.	F3 IV	5	3	3	1
5489		4.92	-0.02	0.01	0.06	0.08	.	.	.	(A0m)	3	3	0	2
5490	V	4.81	3.50	1.66	1.49	2.71	3.50	4.60	4.83	(gM3)	4	4	5	1
5492		6.25	0.40	0.41	0.37	0.57	.	.	.	F2 IV	4	4	0	1
5502		4.60	1.73	0.98	0.73	1.21	1.58	2.17	.	K0 III	5	4	3	1
5505/6		2.37	1.70	0.97	0.75	1.27	1.72	2.37	2.42	K0 II-III+A	4	5	4	1
5511		3.73	-0.04	-0.01	0.07	0.05	.	.	.	A0 V	9	3	0	1
5526		4.41	2.87	1.40	1.07	1.83	.	.	.	(gK4)	3	9	0	1
5528		4.33	-0.75	-0.14	-0.05	-0.16	.	.	.	B6 III:	3	4	0	2
5530		5.16	0.37	0.41	0.38	0.57	0.77	1.03	.	F5 IV	7	7	2	3
5531		2.75	0.24	0.15	0.14	0.18	0.23	0.31	.	A3 V	9	3	2	1
5544	D	4.54	1.06	0.77	0.63	1.06	.	.	.	G8 V	6	3	0	1
5563		2.08	3.24	1.47	1.11	1.87	.	.	.	K4 III	6	3	0	1
5568		5.71	2.17	1.11	0.99	1.53	1.87	2.65	2.92	K5 V	4	2	2	1
5570		4.49	0.36	0.32	0.32	0.49	.	.	.	F0 IV	9	5	0	1
5571		2.68	-1.07	-0.22	-0.10	-0.27	.	.	.	B2 IV	3	3	0	2
5576		3.13	-0.98	-0.20	-0.08	-0.24	.	.	.	B2 V	3	3	0	2
5586	V	4.93	-0.11	0.00	0.08	0.09	.	.	.	(A0)	3	3	0	1
5589	V	4.59	3.18	1.59	1.86	3.57	4.37	5.54	5.73	M5 III	3	3	4	1
5600		4.82	3.33	1.50	1.19	1.98	.	.	.	K4 III	3	3	0	1
5601		4.40	1.91	1.04	0.81	1.35	1.79	2.45	.	K0 III	4	4	3	1
5602		3.50	1.68	0.97	0.65	1.09	1.57	2.16	.	G8 III	3	3	3	1
5603		3.27	3.67	1.71	1.53	2.82	3.53	4.67	4.86	M4 III	5	7	8	1
5605/6		3.89	-0.72	-0.14	-0.10	-0.21	.	.	.	B5 IV	3	3	0	2
5616		4.55	2.57	1.23	0.93	1.58	2.14	2.91	.	K2 III	3	3	3	1
5625		5.85	.	-0.12	-0.07	-0.20	.	.	.	B7: V:nn	3	4	0	2
5626	D	4.05	-0.86	-0.18	-0.08	-0.23	.	.	.	B3 V	6	3	0	2
5634		4.93	0.41	0.43	0.40	0.61	0.72	1.03	1.04	F5 V	9	4	2	1
5646/7		3.70	-0.15	-0.03	-0.05	-0.06	.	.	.	B9 V	6	2	0	2
5651		4.82	-0.84	-0.17	-0.10	-0.26	.	.	.	B3 III	6	2	0	2
5652		4.54	-0.46	-0.08	-0.04	-0.13	.	.	.	B9 IV (Si)	3	3	0	1
5660		4.91	0.66	0.37	0.36	0.67	.	.	.	F0 I	3	3	0	2
5681		3.49	1.63	0.95	0.73	1.24	1.62	2.27	2.53	G8 III	5	2	3	1
5683	D	4.27	-0.46	-0.09	-0.02	-0.06	.	.	.	(B8n)	3	2	0	2
5685		2.61	-0.48	-0.11	-0.04	-0.14	-0.20	-0.25	.	B8 V	9	9	9	1
5686		4.33	2.17	1.10	0.81	1.37	1.59	2.27	2.36	(gK0)	2	1	1	2
5694		5.06	0.60	0.54	0.41	0.68	.	.	.	F8 IV-V	5	3	0	3
5695		3.22	-1.09	-0.22	-0.11	-0.33	.	.	.	B2 IV	3	6	0	2
5705		3.56	3.41	1.54	1.19	2.06	.	.	.	K5 III	3	2	0	2
5708	D	3.37	-0.91	-0.18	-0.11	-0.27	.	.	.	B3 IV	3	2	0	2
5712		4.54	-0.77	-0.15	-0.06	-0.20	.	.	.	B5 V	3	2	0	2
5721		6.12	0.31	0.26	0.24	0.36	.	.	.	F0 V	3	4	0	1
5727/8		4.98	0.62	0.58	0.48	0.76	.	.	.	G2 V	3	4	0	1
5733		4.32	0.37	0.31	0.30	0.45	.	.	.	F0 IV	5	3	0	1
5735		3.05	0.16	0.05	0.08	0.14	.	.	.	A3 II-III	3	3	0	1
5736		5.45	.	-0.15	-0.09	-0.26	.	.	.	B5 V	4	4	0	2
5744		3.29	2.39	1.16	0.78	1.38	1.91	2.61	2.75	K2 III	5	3	5	1
5747		3.68	0.40	0.29	0.18	0.23	0.28	0.38	0.48	F0 IIIp	5	4	4	1
5763		5.02	3.50	1.59	1.27	2.20	.	.	.	K5 III	3	4	0	1
5764		5.50	.	-0.14	-0.09	-0.26	.	.	.	B2 Vnn	3	3	0	2
5774	D	5.02	0.18	0.07	0.15	0.19	.	.	.	(A2n)	3	3	0	1
5776	D	2.78	-1.02	-0.20	-0.14	-0.38	.	.	.	B2 Vn	3	5	0	2
5777		4.62	1.86	1.01	0.77	1.29	1.74	2.37	.	K1 IV	5	3	3	1
5778		4.13	-0.68	-0.13	-0.05	-0.16	.	.	.	B7nn	3	3	0	1
5780		5.18	-0.54	-0.09	-0.04	-0.16	.	.	.	B7 IV:	3	1	0	2

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
5781	D	4.54	-0.86	-0.18	-0.15	-0.37	.	.	.	B5 IV	6	5	0	2
5787		3.91	1.76	1.02	0.71	1.26	1.75	2.39	.	G8 III-IV	2	3	3	1
5788/9		3.80	0.38	0.26	0.22	0.33	.	.	.	F0 IV	3	3	0	1
5793	V	2.24	-0.05	-0.02	0.03	-0.01	-0.01	0.06	.	A0 V	8	2	4	1
5794		3.57	2.98	1.39	1.00	1.71	.	.	.	K5 III	4	8	0	1
5797		4.33	3.15	1.43	1.03	1.76	.	.	.	M0 III	3	2	0	2
5812		3.65	-0.87	-0.18	-0.11	-0.30	.	.	.	B2.5 V	3	9	0	1
5820		4.67	1.73	1.00	0.68	1.17	.	.	.	(gG8)	3	2	0	2
5824		4.96	2.84	1.33	0.96	1.64	2.07	2.89	2.98	K4 III	6	3	4	2
5825		4.64	0.38	0.40	0.35	0.55	.	.	.	F5 IV-V	6	1	0	2
5830		5.75	0.34	0.36	0.33	0.51	.	.	.	F2 V	3	4	0	1
5838		4.72	3.52	1.58	1.28	2.22	.	.	.	K5 III	3	3	0	1
5839		4.75	-0.68	-0.14	-0.10	-0.26	.	.	.	B6 V	3	4	0	2
5840		6.01	1.51	0.90	0.69	1.15	.	.	.	G5 III	3	4	0	1
5842	D	4.53	0.07	0.05	0.04	0.03	.	.	.	A1 V	5	3	0	1
5843		5.33	0.09	0.04	0.05	0.01	.	.	.	A0p	3	5	0	1
5849	D	3.85	-0.05	-0.01	-0.03	-0.05	.	.	.	A0 IV	3	3	0	1
5854		2.64	2.42	1.17	0.81	1.37	1.88	2.58	2.64	K2 III	9	9	9	1
5859		5.58	0.07	0.04	0.04	0.03	.	.	.	A0 V	5	6	0	1
5867		3.67	0.14	0.06	0.06	0.09	.	.	.	A2 IV	9	4	0	1
5868		4.43	0.70	0.60	0.51	0.83	1.05	1.39	1.42	G0 V	9	3	5	1
5879		4.09	3.57	1.62	1.25	2.23	3.01	4.06	4.23	M1 III	3	3	5	1
5881		3.53	-0.14	-0.04	-0.01	-0.06	.	.	.	A0 V	3	3	0	1
5883		3.95	-0.18	-0.04	-0.02	-0.09	.	.	.	A0 III-IV	6	2	0	2
5885		4.68	-0.79	-0.06	0.01	-0.09	.	.	.	B2.5 Vn	2	9	0	1
5888		5.23	1.84	1.02	0.77	1.30	.	.	.	G8 III	3	5	0	1
5889		4.63	1.17	0.80	0.63	1.05	.	.	.	G5 III-IV	4	4	0	1
5892		3.70	0.25	0.16	0.08	0.13	.	.	.	A m	3	3	0	1
5897		2.85	0.34	0.29	0.32	0.47	.	.	.	F2 IV	6	7	0	4
5899		4.78	3.42	1.54	1.22	2.07	.	.	.	K5 III	2	3	0	1
5901		4.82	1.87	1.00	0.76	1.25	.	.	.	K0 III-IV	4	4	0	1
5902		5.03	.	-0.01	0.01	-0.04	.	.	.	B3 V	3	3	0	2
5903		4.32	0.09	0.04	0.06	0.07	.	.	.	A3 V	6	6	0	1
5904	D	4.59	-0.73	-0.06	-0.02	-0.11	.	.	.	B2.5 Vn	4	9	0	1
5906		5.39	.	-0.02	0.01	-0.01	.	.	.	B6 V	3	3	0	2
5907		5.43	.	-0.04	0.01	-0.04	.	.	.	B2 Vnn	3	3	0	2
5908		4.16	1.83	1.01	0.72	1.24	1.67	2.37	2.65	K0 III-IV	4	2	3	1
5914		4.62	0.57	0.57	0.48	0.80	1.10	1.50	.	F9 V	6	3	3	1
5915	D	5.93	.	-0.02	0.02	-0.01	.	.	.	B5 V:	3	3	0	2
5924		5.44	3.53	1.59	1.26	2.23	2.88	3.91	4.11	K4 III	2	3	4	1
5928		3.86	-1.02	-0.20	-0.11	-0.31	.	.	.	B2 V	3	9	0	1
5932		5.38	3.61	1.64	1.49	2.74	3.56	4.61	4.84	M3 III	6	3	4	2
5933		3.86	0.45	0.48	0.49	0.73	0.92	1.20	.	F6 V	9	3	2	1
5941		4.87	-0.26	-0.10	-0.04	-0.09	.	.	.	B pe	5	7	0	1
5944		2.91	-1.09	-0.20	-0.09	-0.29	.	.	.	B1 V	3	8	0	1
5947		4.15	2.51	1.23	0.89	1.51	2.06	2.85	3.02	K3 III	9	9	6	1
5948	D	3.41	-1.06	-0.22	-0.14	-0.35	.	.	.	B2 V	3	5	0	2
5953		2.32	-1.02	-0.12	-0.05	-0.18	-0.26	-0.43	-0.51	B0 V	4	5	6	1
5960		4.95	0.30	0.26	0.23	0.37	.	.	.	F0 IV	3	3	0	1
5962		4.65	1.55	0.92	0.67	1.14	.	.	.	(gG5)	6	2	0	2
5967		4.89	-0.71	-0.14	-0.07	-0.21	.	.	.	B7 IV:	6	3	0	2
5971		4.98	-0.27	-0.07	0.01	-0.07	.	.	.	A0 II-IIIp	3	3	0	1
5972		4.83	0.12	0.07	0.10	0.11	.	.	.	A3 V	3	3	0	1
5977/8		4.17	0.48	0.47	0.37	0.61	.	.	.	F5 IV	2	2	0	1
5980		4.72	0.38	0.23	0.20	0.33	.	.	.	A7m	6	1	0	2
5982		4.76	-0.43	-0.11	0.02	-0.08	.	.	.	B9p	3	3	0	1
5984/5		2.59	-0.94	-0.08	-0.02	-0.11	-0.07	-0.18	-0.15	B0.5 V+B2 V	7	7	6	1
5986		4.03	0.62	0.52	0.45	0.70	.	.	.	F8 IV-V	6	3	0	1
5987		4.23	-0.86	-0.18	-0.10	-0.27	.	.	.	B2 Vn	3	2	0	2
5993		3.97	-0.87	-0.05	0.06	-0.02	-0.03	-0.06	-0.16	B1 V	3	4	3	1

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B.S. R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
5997	4.33	1.35	0.84	0.65	1.08	1.48	2.00	.	(gG2)	2	3	2	1
6018	4.76	1.88	1.01	0.75	1.29	1.68	2.38	2.62	K0 III	6	4	3	1
6023	4.27	-0.35	-0.07	0.00	-0.09	.	.	.	B9p	2	3	0	1
6027 D	4.01	-0.61	0.03	0.11	0.14	0.20	0.24	0.26	B2 IV-V	5	5	4	1
6028	4.59	-0.90	-0.16	-0.05	-0.22	.	.	.	B2.5 Vn	4	5	0	1
6031	4.93	0.19	0.09	0.12	0.14	.	.	.	A2 V	3	3	0	1
6056	2.75	3.55	1.59	1.29	2.32	2.95	3.97	4.11	M1 III	4	5	5	1
6070	4.77	0.01	0.02	0.08	0.03	.	.	.	A0 V	3	3	0	1
6072	4.02	2.25	1.08	0.78	1.36	.	.	.	G8 III	3	1	0	2
6074	5.78	0.17	0.07	0.07	0.07	.	.	.	A3 V	3	4	0	1
6075	3.23	1.73	0.98	0.70	1.19	1.63	2.24	2.27	G9 III	3	4	4	1
6076	6.28	1.84	1.07	0.83	1.45	.	.	.	K5 III	4	3	0	1
6081	4.57	1.50	0.84	0.87	1.71	.	.	.	A5 II	3	3	0	1
6084 V	2.88	-0.56	0.13	0.20	0.31	0.41	0.47	0.45	B1 III	5	5	4	1
6092	3.90	-0.72	-0.15	-0.09	-0.26	-0.28	-0.51	-0.46	B5 IV	9	9	3	1
6093	4.82	0.36	0.34	0.31	0.46	.	.	.	F0 V	4	4	0	1
6095	3.76	0.46	0.27	0.29	0.43	0.60	0.80	0.94	A9 III	7	5	3	1
6098	4.91	0.58	0.55	0.54	0.82	.	.	.	G0 V	3	6	0	4
6103	4.85	1.77	0.97	0.73	1.19	.	.	.	K0 III	4	4	0	1
6104	4.50	1.87	1.03	0.78	1.28	1.73	2.31	.	K0 III	2	2	2	1
6112/3	4.63	-0.33	0.22	0.36	0.67	.	.	.	B3 IV/B3 V	2	2	0	1
6115	4.47	-0.60	-0.07	0.04	0.00	.	.	.	B3: V	3	1	0	2
6117	4.58	-0.05	-0.01	0.07	0.03	.	.	.	A1p	7	5	0	1
6118 V	4.43	-0.48	0.28	0.46	0.70	.	.	.	B2 Ve	3	3	0	1
6129	4.63	0.22	0.16	0.16	0.23	.	.	.	A m	5	5	0	1
6132	2.74	1.61	0.91	0.61	1.07	1.57	2.15	2.30	G8 III	4	3	5	1
6134 V	0.91	3.17	1.84	1.55	2.78	3.55	4.69	4.95	M1-M2 Iab	9	4	4	1
6141	4.79	-0.86	-0.07	-0.06	-0.20	.	.	.	B2 V	2	2	0	1
6143	4.23	-0.96	-0.16	-0.06	-0.21	.	.	.	B2 IV	6	1	0	2
6146 V	5.01	2.69	1.52	2.52	4.75	5.77	7.02	7.21	M6 III	3	2	3	1
6147	4.27	1.63	0.92	0.65	1.09	1.35	1.96	2.02	G8 III	2	2	3	1
6148	2.77	1.63	0.94	0.64	1.11	1.56	2.17	.	G8 III	5	5	2	1
6149 D	3.83	0.03	0.01	-0.01	-0.02	.	.	.	A1 V	4	3	0	1
6153	4.45	0.24	0.11	0.13	0.15	.	.	.	A7p	3	3	0	1
6159	4.85	3.31	1.49	1.20	2.06	2.64	3.64	3.78	K4 III	5	3	2	1
6161	5.01	-0.17	-0.06	0.05	0.03	.	.	.	B9 IV	2	2	0	1
6165	2.81	-1.26	-0.25	-0.12	-0.37	.	.	.	B0 V	3	4	0	1
6166	4.16	3.51	1.57	1.20	2.20	.	.	.	(gK6)	3	2	0	2
6168	4.20	-0.11	-0.01	0.03	0.02	.	.	.	B9 V	3	3	0	1
6171	5.74	1.26	0.81	0.61	1.00	.	.	.	K0 V	3	5	0	3
6175	2.56	-0.83	0.02	0.10	0.06	-0.05	-0.08	-0.06	O9.5 V	9	6	9	1
6212 D	2.81	0.86	0.65	0.51	0.83	1.11	1.51	1.67	G0 IV	7	4	3	1
6220	3.50	1.53	0.92	0.67	1.15	1.52	2.15	2.25	G7 III-IV	3	3	3	1
6237	4.84	0.33	0.39	0.35	0.56	.	.	.	F2 V	3	3	0	1
6241	2.29	2.32	1.16	0.86	1.46	.	.	.	K2 III-IV	3	1	0	2
6243	4.66	0.54	0.47	0.45	0.70	.	.	.	F5 IV-V	3	3	0	1
6247 V	3.03	.	-0.22	-0.12	-0.31	.	.	.	B1.5 V	2	2	0	2
6252	3.57	-1.05	-0.21	-0.13	-0.35	.	.	.	B2 IV	6	2	0	2
6254	4.82	0.11	0.09	0.10	0.11	.	.	.	A2p	6	3	0	1
6271	3.59	2.97	1.36	1.12	1.80	.	.	.	K5 III	1	1	0	1
6281	4.38	-0.40	-0.08	-0.09	-0.17	.	.	.	B8 IV	2	2	0	1
6292	6.08	1.54	0.92	0.70	1.18	.	.	.	G5 III	3	3	0	1
6299	3.20	2.32	1.16	0.84	1.38	1.85	2.56	2.64	K2 III	3	3	3	1
6315	4.90	0.45	0.48	0.45	0.72	.	.	.	F6 V	5	2	0	1
6322 V	4.23	1.45	0.90	0.70	1.17	.	.	.	G5 III	4	4	0	1
6324	3.92	-0.12	-0.01	-0.01	-0.05	.	.	.	B9.5 V	3	3	0	1
6334	4.87	-0.43	0.26	0.28	0.45	.	.	.	B1 Iab	6	2	0	2
6337	4.98	3.53	1.60	1.44	2.65	3.39	4.46	4.54	M3 III	7	5	3	1
6355	4.91	0.18	0.12	0.12	0.14	.	.	.	A3 IV	3	3	0	1
6378 D	2.42	0.14	0.05	0.03	0.04	0.12	0.15	.	A2.5 V	3	3	3	1

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B.S. R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
6380	3.34	0.49	0.40	0.36	0.56	.	.	.	F0 IVm	3	2	0	2
6396	3.17	-0.54	-0.11	-0.06	-0.18	-0.24	-0.32	.	B6 III	3	3	2	1
6401/2	4.32	1.35	0.86	0.70	1.14	.	.	.	K0 V	3	2	0	3
6406*DV	3.06	2.46	1.45	2.10	4.24	5.32	6.57	6.78	M5 II+G5 III	4	4	2	1
6410	3.13	0.16	0.08	0.05	0.08	0.19	0.31	.	A3 IV	7	3	2	1
6415 D	4.72	2.26	1.15	0.80	1.39	.	.	.	K2 III	3	3	0	1
6416	5.48	1.18	0.80	0.72	1.18	.	.	.	G8 V	3	3	0	4
6418	3.16	3.10	1.44	0.96	1.68	2.31	3.18	.	K3 II	4	4	2	1
6426	5.91	1.86	1.04	0.94	1.53	.	.	.	(dK5)	3	3	0	3
6431 V	4.78	-0.91	-0.15	-0.05	-0.24	.	.	.	B3 III	3	3	0	1
6436	4.66	0.02	0.05	0.09	0.09	.	.	.	A2 V	3	3	0	1
6445	4.38	0.35	0.41	0.37	0.59	.	.	.	F2 V	2	2	0	1
6446	4.31	0.07	0.03	0.06	0.06	.	.	.	A1 V	3	3	0	1
6453	3.26	-1.08	-0.23	-0.12	-0.33	-0.49	-0.58	.	B2 IV	5	5	3	1
6484/5	4.17	-0.05	0.00	0.02	0.01	.	.	.	A0p /A0 IV	3	3	0	1
6486	4.16	0.40	0.28	0.29	0.41	.	.	.	A9 V	4	3	0	1
6492	4.27	0.48	0.40	0.33	0.51	.	.	.	F5 IV	3	4	0	1
6493	4.54	0.33	0.41	0.38	0.59	.	.	.	F3 V	3	3	0	1
6498	4.33	3.08	1.50	1.10	1.87	2.45	3.31	3.42	K3 II	3	3	2	1
6508	2.68	-1.04	-0.23	-0.14	-0.37	.	.	.	B3 Ib	2	3	0	2
6510	2.95	-0.86	-0.17	-0.10	-0.34	.	.	.	B2.5 V	6	1	0	2
6519	4.81	-0.06	0.00	0.07	0.09	.	.	.	(A0n)	3	2	0	1
6526	4.41	3.12	1.44	1.04	1.79	2.37	3.24	.	K4 III	3	4	2	1
6527	1.63	-1.11	-0.22	-0.17	-0.45	.	.	.	B1 V	3	1	0	2
6536	2.78	1.63	1.00	0.68	1.16	1.49	2.01	.	G2 II	3	3	2	1
6537	4.59	-0.12	-0.02	-0.01	-0.06	.	.	.	(A0n)	3	1	0	2
6546	4.29	1.99	1.09	0.75	1.30	.	.	.	(gK0)	6	1	0	2
6553	1.87	0.62	0.40	0.35	0.55	.	.	.	F0 Ib	3	2	0	2
6554	4.88	0.29	0.26	0.24	0.37	.	.	.	A m	6	4	0	1
6555	4.88	0.31	0.27	0.24	0.37	.	.	.	A m	7	5	0	1
6556	2.07	0.25	0.15	0.14	0.22	0.29	0.42	.	A5 III	9	7	3	1
6561	3.52	0.36	0.24	0.20	0.33	.	.	.	F0 IV	2	2	0	1
6567	4.63	-0.07	0.11	0.18	0.29	.	.	.	B8 V	3	3	0	1
6569	4.77	0.36	0.40	0.29	0.51	.	.	.	(dF4)	3	1	0	2
6580	2.41	-1.09	-0.21	-0.08	-0.30	.	.	.	B2 IV	2	2	0	1
6581	4.24	0.19	0.08	0.08	0.10	.	.	.	A2 V	2	2	0	1
6588	3.80	-0.87	-0.18	-0.10	-0.27	.	.	.	B3 V	9	4	0	1
6592	6.36	2.38	1.20	0.92	1.51	.	.	.	K1 III+F4 V	2	4	0	3
6595	4.87	0.44	0.47	0.41	0.65	.	.	.	F5 V	3	3	0	1
6596	4.80	0.42	0.43	0.41	0.63	.	.	.	F5 V	3	2	0	1
6603	2.77	2.41	1.17	0.82	1.39	1.85	2.54	2.64	K2 III	9	9	9	1
6623	3.42	1.14	0.75	0.53	0.91	1.24	1.65	.	G5 IV	9	5	3	1
6629	3.75	0.08	0.04	0.04	0.04	.	.	.	A0 V	9	9	0	1
6636	4.58	0.44	0.43	0.38	0.61	.	.	.	F5 IV-V	3	3	0	1
6685	5.45	0.61	0.34	0.32	0.53	.	.	.	F2 Ia	7	3	0	1
6688	3.75	2.39	1.18	0.83	1.42	1.95	2.72	.	K2 III	3	3	2	1
6695	3.87	2.81	1.35	0.90	1.53	2.04	2.84	.	K1 II	3	3	3	1
6698	3.34	1.86	0.99	0.71	1.19	1.66	2.22	.	G9 III	5	3	3	1
6700	4.75	-0.08	-0.05	0.05	0.03	.	.	.	(A0n)	3	3	0	1
6703	3.70	1.64	0.94	0.69	1.15	1.51	2.03	.	G9 III	3	3	3	1
6705	2.22	3.40	1.52	1.14	1.99	2.61	3.56	3.72	K5 III	9	7	9	1
6707	4.41	0.54	0.39	0.40	0.63	0.86	1.13	1.51	F2 II	3	3	2	1
6710	4.62	0.38	0.39	0.33	0.52	.	.	.	F3 V	7	4	0	1
6712	4.60	-0.83	-0.02	0.13	0.11	.	.	.	B2 Ve	3	3	0	1
6713	4.68	2.48	1.27	0.87	1.46	.	.	.	K0 II-III	3	3	0	1
6714	3.97	-0.63	0.02	0.10	0.10	.	.	.	B5 Ib	3	3	0	1
6723	4.42	0.06	0.04	0.07	0.08	.	.	.	A1 V	2	2	0	1
6736	5.97	-0.89	0.00	0.25	0.27	0.19	0.13	.	O5	2	2	3	1
6746	2.99	1.78	1.01	0.73	1.24	1.68	2.34	.	K0 III	3	1	2	2
6752 D	4.03	1.37	0.86	0.65	1.11	1.54	2.15	.	K0 V	5	2	2	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
6766		4.55	1.71	0.95	0.66	1.18	•	•	•	(Gp)	2	3	0	1
6770		4.63	1.70	0.97	0.69	1.19	•	•	•	G8 III-IV	3	3	0	1
6771		3.73	0.21	0.12	0.14	0.19	•	•	•	A4 V	3	3	0	1
6779		3.83	-0.09	-0.02	0.03	0.03	•	•	•	B9.5 III	3	3	0	1
6783		4.53	1.79	1.01	0.70	1.18	•	•	•	G5 III	6	1	0	2
6787		4.35	-0.96	-0.15	-0.06	-0.24	•	•	•	B2 V	3	3	0	1
6789		4.36	0.05	0.02	0.05	0.04	•	•	•	A1 V	8	3	0	1
6806		6.40	1.46	0.87	0.77	1.26	•	•	•	K2 V	4	4	0	3
6812	V	3.85	-0.25	0.22	0.27	0.47	•	•	•	B8 Iap	2	2	0	1
6832		3.11	3.26	1.56	1.56	2.88	•	•	•	M3 II	3	1	0	2
6842		4.63	3.46	1.66	1.21	2.14	•	•	•	(gK5)	3	4	0	1
6859		2.70	2.93	1.38	1.00	1.68	•	•	•	K2 III	6	4	0	1
6866		4.84	1.52	0.91	0.69	1.14	•	•	•	G8 III	4	4	0	1
6868		4.96	3.58	1.58	1.34	2.34	•	•	•	M0 III	2	2	0	1
6869		3.25	1.39	0.94	0.70	1.20	1.60	2.20	•	K0 III-IV	6	3	2	1
6872		4.34	2.36	1.17	0.86	1.41	1.85	2.60	•	K2 III	2	2	2	1
6879		1.85	-0.16	-0.03	0.00	-0.01	•	•	•	A0 V	3	1	0	2
6884		4.68	1.56	0.94	0.72	1.19	•	•	•	K0 III	2	2	0	1
6895		3.84	2.34	1.18	0.85	1.45	1.92	2.68	2.82	K2 III	4	2	3	1
6896	D	4.81	2.23	1.30	1.10	1.94	•	•	•	K2 II	3	3	0	1
6897		3.51	-0.82	-0.17	-0.13	-0.34	•	•	•	B3 III	6	1	0	2
6913		2.81	1.94	1.04	0.75	1.31	1.77	2.43	•	K2 III	6	4	1	1
6917		5.83	0.16	0.07	0.08	0.12	•	•	•	A2 V	4	3	0	1
6918	VD	5.21	0.71	0.50	0.49	0.87	•	•	•	G0 III+A6 V	4	3	0	1
6920	D	4.22	-0.43	-0.10	-0.04	-0.14	•	•	•	A0p	3	3	0	1
6923	D	4.99	0.13	0.08	0.05	0.07	•	•	•	A1 V	2	2	0	1
6927		3.58	0.43	0.49	0.44	0.75	•	•	•	F7 V	6	3	0	1
6930		4.71	0.11	0.07	0.08	0.13	•	•	•	A3 V	3	3	0	1
6945		4.82	2.30	1.19	0.86	1.49	•	•	•	K2 III	3	3	0	1
6951		4.64	1.78	1.02	0.69	1.19	•	•	•	G5 III	6	1	0	2
6973		3.83	2.87	1.34	0.97	1.65	•	•	•	K3 III	4	2	0	1
6978		4.80	1.05	0.61	0.53	0.84	•	•	•	F7 Ib	2	2	0	1
6993		5.74	0.12	0.06	0.07	0.11	•	•	•	(A2)	7	4	0	1
7001		0.03	0.00	0.00	-0.04	-0.07	0.01	0.01	0.05	A0 V	9	5	9	1
7020	V	4.72	0.51	0.35	0.30	0.49	•	•	•	F3 III-IV	2	2	0	1
7029		4.87	-0.89	-0.18	-0.14	-0.30	•	•	•	B3 V	6	1	0	2
7039		3.16	-0.47	-0.11	-0.01	-0.12	•	•	•	B8 III	5	4	0	1
7056		4.36	0.35	0.19	0.15	0.23	•	•	•	A m	5	4	0	1
7059		5.64	0.22	0.14	0.13	0.20	•	•	•	A2m	5	4	0	1
7061		4.19	0.48	0.46	0.39	0.65	•	•	•	F6 V	6	2	0	1
7063		4.22	1.93	1.09	0.79	1.36	1.80	2.48	•	G5 II	2	2	3	1
7064		4.84	2.42	1.20	0.88	1.49	•	•	•	K3 III	2	2	0	1
7066	V	5.20	3.10	1.47	1.06	1.83	2.36	3.12	3.64	G0pIa-K0pIb	JD2438639			
7069		4.36	0.20	0.12	0.09	0.10	•	•	•	A3 V	3	3	0	1
7106	V	3.42	-0.57	0.00	0.11	0.13	0.18	0.36	•	B pe	3	3	3	1
7116		4.83	2.68	1.40	1.01	1.70	•	•	•	(cK2)	3	3	0	1
7120		4.98	2.82	1.32	0.94	1.60	2.13	2.91	3.08	K3 III	5	4	3	1
7121		2.03	-0.97	-0.22	-0.11	-0.32	•	•	•	B2 V	6	4	0	1
7125		4.67	2.23	1.19	0.90	1.54	•	•	•	K0 II-III	4	3	0	1
7133	D	4.60	1.28	0.78	0.64	1.10	1.44	2.04	•	G4 III+A6 V	2	2	3	1
7137		4.93	1.47	0.90	0.68	1.13	•	•	•	G8 III	3	3	0	1
7139		4.30	3.32	1.67	1.78	3.41	4.32	5.53	5.75	M4 II	3	3	7	1
7141/2		4.07	0.26	0.17	0.17	0.24	•	•	•	A5 V	2	3	0	1
7150		3.51	2.31	1.18	0.80	1.39	1.80	2.52	2.56	K1 III	6	3	3	1
7157	V	4.00	3.00	1.59	2.05	3.96	4.86	6.09	6.35	M5 III	3	3	8	1
7172		5.22	0.60	0.53	0.42	0.72	•	•	•	F8 IV	6	4	0	1
7176		4.02	2.12	1.08	0.76	1.28	1.69	2.33	2.47	K2 III	3	3	3	1
7178		3.24	-0.13	-0.05	-0.03	-0.04	0.01	0.00	0.07	B9 III	9	6	3	1
7180		4.82	2.25	1.15	0.85	1.41	•	•	•	K0 III	4	3	0	1
7193		4.02	2.13	1.09	0.79	1.33	1.79	2.51	2.58	K1 III	4	3	3	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
7194	D	2.59	0.13	0.08	0.05	0.06	•	•	•	A2 III	7	4	0	1
7215		5.02	0.28	0.19	0.21	0.30	•	•	•	(A7)	4	3	0	1
7217		3.77	1.86	1.00	0.72	1.25	1.66	2.29	2.35	(gG8)	3	3	3	1
7234		3.31	2.34	1.20	0.87	1.46	•	•	•	K1 III	5	3	0	1
7235		2.99	0.00	0.01	0.01	0.01	0.06	0.07	•	B9.5 V	9	3	3	1
7236		3.43	-0.36	-0.09	-0.03	-0.12	-0.21	-0.24	•	B8 V	5	2	2	1
7254		4.11	0.13	0.04	0.04	0.04	•	•	•	(A2n)	3	1	0	2
7259		4.11	2.27	1.20	0.82	1.43	•	•	•	(gG3)	3	1	0	2
7264		2.88	0.58	0.34	0.34	0.58	0.74	1.00	1.14	F2 II-III	4	2	3	1
7292	D	4.83	0.87	0.55	0.49	0.83	•	•	•	(dF5)	2	2	0	1
7298		4.38	-0.81	-0.14	-0.10	-0.25	•	•	•	B2 IV	3	3	0	1
7306		4.77	-0.59	-0.04	0.01	-0.06	•	•	•	B3 IV	3	3	0	1
7310		3.07	1.78	1.00	0.70	1.21	1.64	2.27	2.30	G9 III	3	3	3	1
7312		5.14	0.31	0.31	0.31	0.48	•	•	•	F2 V	8	5	0	1
7314		4.37	2.48	1.25	0.87	1.46	2.00	2.71	2.85	K0 II	2	2	3	1
7317		6.06	3.00	1.43	1.12	1.95	2.56	3.55	3.62	K3 III	5	4	3	1
7328		3.76	1.71	0.97	0.63	1.10	1.51	2.09	2.18	G9 III	3	3	3	1
7340		3.93	0.36	0.22	0.19	0.29	•	•	•	F0 IV	3	3	0	1
7342		4.61	-0.43	0.10	0.27	0.40	•	•	•	A pe	3	3	0	1
7352		4.45	2.70	1.25	0.90	1.48	2.00	2.69	•	K3 III	3	3	1	1
7358		5.18	-0.65	-0.12	-0.04	-0.20	•	•	•	B6 III	3	3	0	1
7371		4.59	0.08	0.02	0.04	0.01	•	•	•	A2 IV	3	3	0	1
7372		4.97	-0.81	-0.09	0.02	-0.12	•	•	•	B3 IV	3	3	0	1
7377		3.36	0.36	0.32	0.25	0.41	0.61	0.79	•	F0 IV	9	2	2	1
7387		4.67	1.11	0.60	0.51	0.97	•	•	•	F2 Ib	3	3	0	1
7405		4.45	3.32	1.50	1.21	2.18	2.90	3.90	•	M0+ III	5	3	2	1
7417		3.08	1.75	1.13	0.87	1.53	2.07	2.92	3.09	K3 II+B:	5	3	2	1
7420		3.79	0.25	0.14	0.11	0.18	•	•	•	A5 V	3	3	0	1
7426		4.74	-0.80	-0.13	0.01	-0.15	•	•	•	B3 IV	3	2	0	1
7429		4.45	2.42	1.18	0.91	1.52	1.95	2.69	2.82	K3 III	4	6	6	1
7437		4.99	-0.50	-0.07	-0.01	-0.10	•	•	•	B7 V	3	3	0	1
7440		4.60	-0.21	-0.06	-0.03	-0.09	•	•	•	(B9)	3	3	0	1
7446		4.96	-0.87	0.00	0.06	0.02	-0.13	-0.19	-0.12	B0.5 III	9	9	1	1
7447		4.36	-0.53	-0.09	0.02	-0.06	•	•	•	B5 III	3	4	0	1
7451		5.74	0.48	0.48	0.46	0.74	•	•	•	F7 V	4	3	0	1
7462		4.69	1.17	0.80	0.65	1.06	1.37	1.91	2.16	K0 V	5	3	3	1
7469		4.47	0.37	0.39	0.35	0.56	•	•	•	F4 V	6	3	0	1
7478		4.70	1.74	0.95	0.68	1.15	•	•	•	G8 III-IV	3	3	0	1
7479		4.37	1.20	0.77	0.57	0.94	1.29	1.73	1.85	G0 II	3	3	3	1
7488		4.37	1.94	1.05	0.71	1.21	1.63	2.24	2.37	G8 II	3	3	4	1
7503		5.95	0.84	0.64	0.45	0.78	1.04	1.43	1.58	G2 V	4	2	4	1
7504		6.20	0.87	0.66	0.44	0.78	1.16	1.55	1.78	G5 V	4	2	4	1
7525		2.72	3.20	1.52	1.07	1.82	2.42	3.31	3.52	K3 II	4	4	3	1
7528		2.87	-0.12	-0.02	-0.01	-0.03	0.05	0.06	0.17	B9.5 III	3	3	3	1
7546	D	5.00	0.16	0.10	0.14	0.20	•	•	•	A3 V	3	3	0	1
7536		3.83	2.37	1.41	1.44	2.73	3.46	4.62	4.81	M2 II+A0 V	3	3	3	1
7557		0.76	0.31	0.22	0.14	0.28	0.37	0.50	0.55	A7 IV+V	9	7	9	1
7564	max	4.23	2.78	1.82	2.42	4.22	5.43	6.98	7.48	M5 (S7+1e)	JD2438847			
7564	min	2.61	2.50	1.90	5.36	9.51	11.86	13.95	14.86	M8 (S7+1e)	JD2439056			
7565		4.96	-0.81	-0.12	-0.02	-0.16	•	•	•	B3 V	3	3	0	1
7582	D	3.82	1.41	0.89	0.64	1.12	1.57	2.14	2.28	G8 III	3	3	3	1
7589		5.62	-1.04	-0.07	0.10	-0.02	•	•	•	O9.5 III	5	2	0	1
7592		4.58	-0.19	-0.06	0.03	-0.02	•	•	•	B9.5 III	2	2	0	1
7595		4.68	1.94	1.05	0.76	1.33	•	•	•	K0 III	2	2	0	1
7597		4.70	1.07	0.75	0.59	0.96	•	•	•	(dG5)	3	3	0	1
7602		3.72	1.35	0.86	0.66	1.15	1.46	2.01	2.12	G8 IV	9	9	3	1
7604		4.50	3.02	1.46	1.02	1.75	•	•	•	(gK3)	3	3	0	1
7613		4.95	-0.61	-0.09	0.01	-0.09	•	•	•	B6 III	2	2	0	1
7615		3.93	1.91	1.03	0.74	1.26	1.65	2.26	2.39	K0 III	4	4	3	1
7618		4.82	1.43	0.89	0.65	1.12	•	•	•	(gG5)	2	2	0	1

TABLE 2 UBVRIKL PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S. R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V R K S
7619 D	4.92	0.18	0.12	0.10	0.16	.	.	.	A3 IV	3 3 0 1
7635	3.47	3.50	1.57	1.20	2.12	2.68	3.63	3.83	K5 III	3 3 3 1
7650	4.59	3.46	1.65	1.87	3.43	.	.	.	M4 III	3 3 0 1
7653	4.65	0.34	0.18	0.16	0.25	.	.	.	A m	3 3 0 1
7665	3.56	1.22	0.76	0.61	0.95	.	.	.	G8 V	6 3 0 4
7678	5.65	0.08	0.54	0.52	0.94	1.15	1.54	.	B1.5 Ia+	5 2 3 1
7685	4.50	2.81	1.31	0.93	1.58	2.14	2.93	.	K3 III	3 3 3 1
7703	5.32	.	0.87	0.75	1.24	.	.	.	K3 V	6 4 0 4
7708	4.92	-0.90	-0.12	0.03	-0.08	.	.	.	B3 V	4 4 0 1
7710	3.22	-0.19	-0.07	-0.07	-0.12	-0.19	-0.19	-0.16	B9.5 III	6 3 4 1
7722	5.73	1.52	0.88	0.71	1.16	.	.	.	K0 V	3 4 0 3
7724	4.95	0.10	0.09	0.10	0.10	.	.	.	A2 V	3 3 0 1
7730	4.83	0.25	0.09	0.16	0.24	.	.	.	A3 III	2 2 0 1
7735 V	3.80	1.70	1.28	0.97	1.73	2.39	3.31	.	K2 II+B3 V	3 3 3 1
7736	4.99	0.11	0.12	0.20	0.27	.	.	.	A2 III	3 3 0 1
7739	4.77	-0.91	-0.18	-0.08	-0.28	.	.	.	B3 V	3 3 0 1
7740	4.30	0.19	0.11	0.12	0.18	.	.	.	A3 IV.V	5 5 0 1
7741	5.15	1.75	1.04	0.74	1.22	.	.	.	G2 Ib	3 3 0 1
7744	4.52	2.37	1.26	0.96	1.67	.	.	.	K3 III	4 3 0 1
7746	6.12	1.96	1.04	0.77	1.30	.	.	.	K1 III	7 4 0 1
7747	4.26	1.89	1.08	0.79	1.32	1.71	2.34	2.48	G3 Ib	2 2 3 1
7750 D	4.39	-0.14	-0.05	-0.02	-0.08	.	.	.	B9 III	3 3 0 1
7751 V	3.98	2.56	1.52	1.20	2.12	2.79	3.82	.	K3 Ib-II+B	3 3 3 1
7754	3.58	1.64	0.95	0.69	1.16	1.51	2.10	2.28	G9 III	2 2 2 1
7763 V	4.82	-0.16	0.42	0.54	0.80	1.04	1.51	1.95	B1ep	5 2 4 1
7767 D	5.84	-0.67	0.10	0.15	0.16	.	.	.	O8	9 9 0 1
7770	5.17	1.12	0.65	0.57	0.99	.	.	.	F5 Ib	3 3 0 1
7773	4.76	-0.15	-0.04	0.01	-0.05	.	.	.	B9 V	3 3 0 1
7776	3.08	1.06	0.79	0.55	1.05	1.54	2.17	2.24	F8 V(+A0)	5 2 3 1
7781	5.76	0.14	0.12	0.13	0.19	.	.	.	(A2)	6 4 0 1
7784	6.23	0.09	0.06	0.06	0.09	.	.	.	A1 V	6 4 0 1
7790	1.94	-0.91	-0.20	-0.09	-0.25	.	.	.	B3 IV	3 3 0 4
7796	2.23	1.21	0.67	0.49	0.83	1.07	1.51	1.56	F8 Ib	2 2 3 1
7806	4.44	2.83	1.33	1.01	1.68	2.15	3.00	3.12	K3 III	6 4 3 1
7822 D	4.81	0.42	0.37	0.35	0.54	.	.	.	F2 IV	2 3 0 1
7834	4.02	0.70	0.40	0.36	0.59	.	.	.	F5 II	3 3 0 1
7844	4.95	-0.72	-0.09	0.03	-0.08	.	.	.	B2 V	3 3 0 1
7847	6.18	1.75	1.01	0.85	1.54	2.01	2.64	2.86	F5 Iab	5 2 5 1
7850	4.22	0.36	0.20	0.17	0.26	.	.	.	A m	3 3 0 1
7852	4.04	-0.60	-0.12	-0.02	-0.13	.	.	.	B6 III	2 2 0 1
7866	4.63	2.36	1.61	1.30	2.29	.	.	.	K2 Ib+B	2 2 0 1
7871	4.69	0.22	0.11	0.13	0.18	.	.	.	A3 V	2 2 0 1
7882 D	3.63	0.52	0.44	0.40	0.64	0.74	0.98	.	F5 IV	3 2 3 1
7884	4.33	1.65	0.96	0.67	1.13	1.48	2.05	.	G8 III	3 3 3 1
7891	4.82	-0.09	-0.02	0.03	-0.01	.	.	.	B9.5 V	3 3 0 1
7906	3.77	-0.27	-0.06	0.00	-0.04	.	.	.	B9 V	9 9 0 1
7924	1.25	-0.14	0.09	0.11	0.21	0.25	0.36	0.47	A2 Ia	9 5 9 1
7928	4.44	0.42	0.32	0.26	0.43	.	.	.	A7p III	3 3 0 1
7936	4.13	0.47	0.43	0.36	0.56	.	.	.	F5 V	3 3 0 1
7939	4.91	2.37	1.19	0.85	1.43	1.89	2.63	2.80	K2 III	4 2 3 1
7942	4.23	1.94	1.06	0.77	1.30	1.67	2.36	2.56	K0 III	3 3 4 1
7947/8	3.91	1.36	0.85	0.68	1.16	.	.	.	F8IV-V/K2IV	3 3 0 1
7949	2.46	1.90	1.03	0.73	1.27	1.69	2.35	2.46	K0 III	8 5 9 1
7950	3.77	0.02	0.00	0.07	0.07	.	.	.	A1 V	9 3 0 1
7951	4.44	3.60	1.67	1.47	2.78	3.45	4.62	4.79	M3 III	3 3 3 1
7955	4.52	0.64	0.54	0.47	0.75	.	.	.	F8 IV-V	2 2 0 1
7957	3.43	1.53	0.92	0.67	1.16	1.53	2.15	2.24	K0 IV	5 2 3 1
7963 D	4.54	-0.61	-0.11	-0.04	-0.15	.	.	.	B5 V	3 3 0 1
7977	4.86	-0.03	0.42	0.45	0.76	.	.	.	B3 Ia	3 2 0 1
7980	4.12	3.54	1.63	1.25	2.19	.	.	.	M1 III	6 3 0 1

BRIGHT STAR PHOTOMETRY

B.S. R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V R K S
7990	4.73	0.42	0.32	0.28	0.42	.	.	.	A8m	3 3 0 1
7995	4.61	1.28	0.82	0.68	1.14	.	.	.	G8 III	2 2 0 1
8001	4.77	-0.72	-0.14	-0.07	-0.20	.	.	.	B5 V	2 2 0 1
8020	5.67	0.14	0.47	0.48	0.87	.	.	.	B8 Ia	4 1 0 1
8028	3.94	0.02	0.02	0.05	0.05	.	.	.	A0 V	3 3 0 1
8034	5.23	0.48	0.46	0.32	0.60	.	.	.	F5 III	3 2 0 4
8047	4.75	-0.98	-0.04	0.13	0.12	.	.	.	B1 IV:e	4 4 0 1
8060	4.84	0.23	0.18	0.16	0.23	.	.	.	A3 m?	3 3 0 1
8075	4.07	0.00	-0.01	0.01	-0.01	.	.	.	A0 V	3 2 0 1
8079	3.70	3.45	1.65	1.20	2.10	2.70	3.75	3.98	K5 Ib	2 2 4 1
8080	4.49	3.50	1.60	1.28	2.26	.	.	.	M1 III	3 3 0 1
8085	5.22	2.28	1.17	1.03	1.68	2.07	2.83	2.91	K5 V	9 6 3 1
8086	6.03	2.60	1.37	1.17	2.00	2.48	3.30	3.39	K7 V	9 6 3 1
8089	4.56	3.29	1.56	1.17	1.99	.	.	.	K4 Ib-IIa	3 2 0 1
8093	4.52	1.61	0.94	0.69	1.15	1.51	2.10	2.29	G8 III	2 2 3 1
8097	4.68	0.35	0.26	0.25	0.36	.	.	.	F0p	4 4 0 1
8115	3.20	1.75	0.99	0.70	1.18	1.55	2.11	2.22	G8 II	5 3 3 1
8123 D	4.49	0.49	0.50	0.43	0.71	.	.	.	F7 V	5 2 0 1
8130 D	3.73	0.43	0.40	0.35	0.59	0.74	1.02	.	F0 IV	2 2 2 1
8131	3.90	0.82	0.52	0.44	0.79	.	.	.	G0III+A5V	2 2 0 1
8143	4.23	-0.26	0.13	0.15	0.29	0.28	0.44	0.63	B9 Iab	2 2 3 1
8146	4.42	-0.92	-0.10	0.05	-0.03	.	.	.	B2 Ve	3 3 0 1
8151	4.82	-0.05	0.02	0.09	0.13	.	.	.	A0 V (Cr)	6 1 0 2
8162	2.45	0.33	0.22	0.21	0.32	0.34	0.49	0.60	A7 IV.V	5 3 3 1
8167	4.27	1.47	0.91	0.62	1.10	1.44	2.00	.	G8 III	2 2 3 1
8170	6.40	0.53	0.53	0.47	0.81	.	.	.	F8 V	6 4 0 1
8173	4.09	2.16	1.11	0.79	1.33	1.74	2.45	2.61	K1 III	6 3 3 1
8181	4.22	0.35	0.48	0.47	0.77	.	.	.	F8 V	3 5 0 4
8204	3.74	1.60	1.00	0.64	1.07	1.37	1.88	2.00	G4 Ibp	3 3 3 1
8207	5.78	3.18	1.44	1.05	1.81	.	.	.	K5 III	6 4 0 1
8213	4.51	1.51	0.91	0.68	1.15	1.46	2.05	2.16	(gG5)	4 4 3 1
8225	4.57	3.55	1.62	1.25	2.34	.	.	.	M1 III	3 3 0 1
8232	2.87	1.41	0.84	0.61	1.02	1.30	1.77	.	G0 Ib	4 2 2 1
8238 DV	3.23	-1.18	-0.22	-0.10	-0.32	-0.55	-0.73	.	B2 III	4 2 3 1
8252	4.02	1.45	0.89	0.71	1.21	1.47	2.05	2.14	G8 III	6 2 3 1
8255	4.91	2.08	1.08	0.82	1.36	1.82	2.47	.	K1 III	5 3 2 1
8260	4.72	-0.74	-0.16	-0.04	-0.12	.	.	.	B3 V:p	3 3 0 1
8262 V	5.38	2.83	1.59	2.35	4.49	5.46	6.67	.	(gM4e)	2 2 1 1
8263	6.25	0.11	0.06	0.08	0.10	.	.	.	(A2)	6 4 0 1
8264	4.69	0.32	0.19	0.17	0.27	.	.	.	A7 V	2 2 0 1
8278	3.67	0.53	0.32	0.23	0.36	0.51	0.65	.	F0 IIIp	2 2 2 1
8279	4.73	-0.24	0.30	0.31	0.49	0.44	0.55	0.62	B2 Ib	4 2 3 1
8288	4.73	1.39	0.88	0.67	1.16	.	.	.	G8 III	3 4 0 1
8291	6.11	0.15	0.07	0.11	0.16	.	.	.	(A2)	6 3 0 1
8297 *V	6.05	7.82	2.52	1.83	3.21	4.11	5.71	6.32	C6.3	2 2 3 1
8301	4.67	-0.81	-0.12	-0.02	-0.15	.	.	.	B3 V	3 3 0 1
8305	4.34	-0.16	-0.05	-0.01	-0.04	.	.	.	A0 V (Si)	6 1 0 2
8308	2.39	3.22	1.52	1.05	1.81	2.36	3.20	.	K2 Ib	3 2 3 1
8309/10	4.51	0.50	0.49	0.38	0.66	.	.	.	F6 V	3 3 0 1
8313	4.31	2.14	1.18	0.80	1.36	1.79	2.42	.	G5 Ib	2 2 3 1
8315 D	4.12	0.47	0.44	0.37	0.62	.	.	.	F5 IV	3 2 0 1
8316 V	4.17	4.71	2.26	2.10	3.86	4.69	5.82	6.22	M2 Ia	JD2438300
8317	4.57	2.19	1.10	0.84	1.38	.	.	.	K0 III	3 3 0 1
8322 V	2.83	0.39	0.29	0.24	0.40	0.49	0.69	.	A6m	4 2 3 1
8327	5.94	-0.33	0.31	0.28	0.45	0.53	0.59	.	O9 II	5 2 2 1
8334	4.29	0.65	0.52	0.50	0.94	1.15	1.44	1.59	A2 Ia	7 4 8 1
8335	4.24	-0.84	-0.12	-0.05	-0.17	.	.	.	B3 III	3 3 0 1
8353	3.01	-0.49	-0.12	-0.05	-0.11	.	.	.	B8 III:	6 1 0 2
8371	5.80	0.70	0.72	0.68	1.28	.	.	.	B8 Ib	6 3 0 1
8383 V	4.90	2.13	1.75	1.71	3.05	3.83	5.03	.	M2ep Ia+B9	3 3 3 1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
8387		4.69	2.05	1.06	0.88	1.44	.	.	.	K5 V	6	2	0	4
8402		4.69	-0.47	-0.05	-0.01	-0.05	.	.	.	B8 V	3	3	0	1
8407		5.60	-0.13	-0.02	0.03	0.02	.	.	.	B9p	6	4	0	1
8410		5.31	0.38	0.23	0.18	0.28	.	.	.	A5m	6	4	0	1
8411		4.46	3.03	1.37	1.00	1.78	.	.	.	M0 III	6	1	0	2
8413		4.34	3.24	1.44	1.07	1.83	2.43	3.26	.	K4 III	5	3	3	1
8414		2.93	1.74	0.97	0.66	1.13	1.45	1.97	.	G2 Ib	4	2	3	1
8417	D	4.29	0.43	0.34	0.32	0.45	.	.	.	A m	3	3	0	1
8418		4.25	-0.34	-0.07	-0.05	-0.14	.	.	.	B8 V	2	2	0	1
8421		6.12	3.37	1.60	1.66	3.22	4.01	5.14	5.35	(gM8)	4	4	4	1
8425		1.74	-0.60	-0.13	-0.08	-0.14	.	.	.	B5 V	3	1	0	2
8428		5.11	-0.75	0.08	0.16	0.19	0.09	0.17	.	O9.5 Ib	6	3	2	1
8430		3.76	0.41	0.44	0.40	0.65	0.76	1.11	.	F5 V	9	2	3	1
8431		4.50	0.11	0.05	0.07	0.12	.	.	.	A2 V	6	1	0	2
8450		3.55	0.17	0.07	0.05	0.09	.	.	.	A2 V	2	2	0	1
8454		4.29	0.64	0.46	0.39	0.66	.	.	.	F5 II-III	5	2	0	1
8461		5.95	1.68	0.95	0.72	1.21	.	.	.	K1 III	6	4	0	1
8465		3.35	3.27	1.55	1.08	1.86	2.38	3.24	3.35	K1 Ib	6	3	3	1
8468		4.79	1.53	0.92	0.69	1.17	.	.	.	G8 III	3	3	0	1
8469		5.05	-0.50	0.24	0.28	0.43	0.43	0.47	0.65	O6f	9	5	7	1
8473		6.37	-0.23	-0.06	0.00	-0.07	.	.	.	(A0)	6	3	0	1
8485		4.49	2.83	1.39	1.01	1.75	2.29	3.18	.	K3 III	3	3	2	1
8494		4.19	0.32	0.28	0.27	0.42	.	.	.	F0 IV	7	3	0	1
8498		4.13	3.08	1.46	1.00	1.72	2.27	3.08	.	K3 II-III	3	3	2	1
8499		4.15	1.79	0.99	0.70	1.18	1.57	2.14	.	G8 III-IV	4	3	2	1
8518		3.84	-0.19	-0.06	0.04	0.00	.	.	.	B9 III	3	2	0	1
8520		4.99	-0.91	-0.10	-0.07	-0.21	.	.	.	B2 V	2	2	0	1
8521	V*	6.62	.	2.01	3.44	6.08	7.28	8.73	.	S4,7	4	4	3	2
8522		4.81	-0.19	0.00	0.09	0.08	.	.	.	B8 III	3	3	0	1
8523		4.56	-0.60	-0.10	-0.02	-0.13	.	.	.	B6 IV	2	2	0	1
8538		4.44	1.79	1.02	0.75	1.32	1.75	2.37	.	G9 III	3	3	2	1
8539		4.64	-1.00	-0.04	0.16	0.16	.	.	.	B1 Vpe	3	2	0	1
8541		4.58	-0.25	0.09	0.13	0.23	0.27	0.34	0.31	B9 Iab	2	2	2	1
8551		4.80	1.94	1.06	0.78	1.34	1.81	2.46	2.58	K0 III	5	3	3	1
8556		3.97	1.84	1.03	0.73	1.34	.	.	.	(gG5)	3	1	0	2
8558/9		3.66	0.37	0.38	0.39	0.62	.	.	.	F2 IV	2	2	0	1
8560		4.11	3.27	1.57	1.73	3.32	.	.	.	(gM6)	3	1	0	2
8572	D	4.37	2.78	1.68	1.39	2.46	3.18	4.21	.	M0 Iab+B	4	3	3	1
8573		4.81	-0.22	-0.08	0.00	-0.04	.	.	.	A0 IV	3	3	0	1
8576	D	4.29	0.03	0.01	0.02	0.04	.	.	.	A0 V	3	1	0	2
8579		4.51	-0.83	-0.09	-0.01	-0.12	.	.	.	B2 IV	8	3	0	1
8585		3.77	0.01	0.01	0.00	-0.03	.	.	.	A2 V	3	3	0	1
8597		4.00	-0.38	-0.10	-0.06	-0.13	.	.	.	B8 V	2	2	0	1
8613		4.63	0.35	0.24	0.22	0.36	.	.	.	A7 IV	3	3	0	1
8622		4.88	-1.25	-0.20	-0.09	-0.30	-0.53	-0.67	-0.62	O9 V	9	9	9	1
8628		4.16	-0.46	-0.12	-0.06	-0.16	.	.	.	B8 V	3	3	0	1
8632		4.46	2.69	1.33	0.92	1.60	2.10	2.95	.	K3 III	3	3	3	1
8634		3.40	-0.33	-0.09	-0.04	-0.11	.	.	.	B8 V	3	2	0	1
8636		2.11	3.22	1.62	1.91	3.68	.	.	.	M3 II	6	1	0	2
8641		4.79	-0.02	-0.01	0.04	0.02	.	.	.	A1 V	3	2	0	1
8644		4.85	1.84	1.03	0.76	1.41	.	.	.	(G5)	3	1	0	2
8649		4.69	2.92	1.36	0.97	1.69	.	.	.	K4 III	6	5	0	1
8650		2.95	1.43	0.86	0.64	1.12	1.49	2.02	.	G2 II-III+F?	5	3	3	1
8665		4.19	0.48	0.50	0.43	0.74	.	.	.	F7 V	6	3	0	1
8667		3.94	1.99	1.08	0.76	1.27	1.69	2.29	.	G8 II-III	3	3	3	1
8679		3.98	3.53	1.59	1.19	2.14	2.78	3.76	.	M0 III	3	4	3	1
8684		3.48	1.62	0.94	0.68	1.15	1.47	2.05	.	G8 III	3	3	2	1
8694		3.53	1.95	1.05	0.83	1.34	1.71	2.34	.	K1 III	3	3	4	1
8695	D	4.46	-0.18	-0.04	0.02	0.04	.	.	.	A0 V	6	1	0	2
8698		3.79	3.41	1.65	1.42	2.61	3.36	4.49	.	M2 III	3	3	2	1

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
8702		4.74	2.61	1.26	0.94	1.61	.	.	.	K3 III	3	3	0	1
8704		5.81	-0.40	-0.08	0.01	-0.04	.	.	.	(B9)	6	5	0	3
8709		3.28	0.13	0.05	0.07	0.11	.	.	.	A3 V	9	3	0	1
8717		4.90	0.00	0.00	0.04	0.02	.	.	.	A1 V	5	3	0	1
8720		4.21	1.67	0.97	0.74	1.35	.	.	.	(gG8)	6	1	0	2
8721		6.49	2.12	1.10	0.95	1.54	.	.	.	K5 V	3	5	0	3
8726		4.94	3.72	1.77	1.35	2.40	3.07	4.10	4.33	K5 Ib	3	3	2	1
8728		1.16	0.15	0.09	0.06	0.08	0.14	0.19	.	A3 V	7	4	4	1
8729		5.50	0.87	0.67	0.54	0.88	1.13	1.51	1.72	G4 V	3	3	7	1
8737		6.43	0.80	0.64	0.53	0.89	.	.	.	(dG1)	3	8	0	4
8748		4.72	3.13	1.43	1.09	1.82	.	.	.	K4 III	1	1	0	1
8752	V	5.13	2.88	1.55	1.17	2.02	2.61	3.33	3.59	G0 Ia	JD2438300			
8762		3.62	-0.62	-0.09	0.01	-0.07	.	.	.	B6p	3	3	0	1
8773		4.52	-0.62	-0.12	-0.02	-0.15	.	.	.	B5 Ve	2	2	0	1
8775	V	2.42	3.63	1.67	1.50	2.82	3.52	4.63	4.79	M2+ II-III	5	5	9	1
8780		4.66	1.94	1.06	0.74	1.31	.	.	.	K0 III	2	2	0	1
8781		2.48	-0.10	-0.04	0.01	-0.02	-0.04	-0.06	-0.03	B9.5 III	9	5	9	1
8789		4.48	1.49	0.90	0.71	1.20	.	.	.	(gG9)	2	2	0	1
8795		4.51	3.46	1.58	1.26	2.28	2.87	3.81	.	M2 III	4	2	2	1
8796		4.77	2.50	1.35	0.97	1.65	.	.	.	K0 Ibp	2	2	0	1
8797		4.86	-0.90	-0.03	0.10	-0.01	.	.	.	B0.5 IV	5	2	0	1
8804		5.33	3.13	1.41	1.02	1.77	.	.	.	K5 III	3	1	0	1
8808	D	6.25	-0.61	-0.01	0.05	-0.01	-0.01	0.04	.	B3 V	1	1	1	1
8812		3.64	2.45	1.23	0.84	1.44	1.94	2.70	.	K2 II	3	3	4	1
8817		4.68	1.02	0.64	0.54	0.90	.	.	.	(sgG2)	3	3	0	1
8819	D	4.42	1.27	0.82	0.65	1.08	.	.	.	G2 III	2	2	0	1
8820		3.90	1.88	1.02	0.75	1.31	.	.	.	K0 III	6	2	0	2
8830		4.53	0.34	0.30	0.29	0.45	.	.	.	F0 V	3	3	0	1
8832		5.57	1.89	1.00	0.83	1.36	1.70	2.30	.	K3 V	9	9	1	1
8834		4.22	3.42	1.55	1.28	2.36	3.04	4.05	.	M2 III	3	3	2	1
8841		4.25	2.12	1.11	0.79	1.35	1.78	2.46	.	K0 III	3	3	3	1
8852		3.69	1.48	0.91	0.72	1.23	1.63	2.25	.	G7 III	5	3	3	1
8858		4.40	-0.68	-0.14	-0.07	-0.20	.	.	.	B5 V	3	3	0	1
8860		4.86	3.64	1.67	1.46	2.72	3.40	4.49	.	(gM2)	2	2	2	1
8863		4.41	2.19	1.13	0.84	1.47	.	.	.	G8 III	6	2	0	2
8872	D	4.76	1.33	0.84	0.65	1.10	.	.	.	K0 III	2	2	0	1
8880		4.60	0.27	0.17	0.21	0.30	.	.	.	A5 IV	3	3	0	1
8892		3.98	2.05	1.10	0.82	1.42	1.93	2.63	.	K0 III	3	3	3	1
8905		4.41	0.75	0.61	0.54	0.86	1.04	1.39	.	F8 IV	5	3	3	1
8906		4.40	3.27	1.47	1.13	1.94	2.52	3.46	.	K5 III	7	3	2	1
8911		4.94	0.00	0.04	0.07	0.04	.	.	.	A2p	6	6	0	1
8916		4.30	2.11	1.08	0.80	1.33	1.76	2.42	.	K1 III	3	3	3	1
8923		4.56	1.68	0.94	0.74	1.19	1.56	2.12	.	G8 III	2	2	3	1
8926	V	4.94	-0.76	-0.12	0.01	-0.13	.	.	.	B3 V	3	3	0	1
8937		4.37	-0.45	-0.09	0.00	-0.07	.	.	.	B9 V(Mn)	6	2	0	2
8939		4.72	0.03	0.02	0.07	0.10	.	.	.	A0 n	3	4	0	1
8947		5.59	0.18	0.10	0.12	0.18	.	.	.	A2 III	6	4	0	1
8949		4.71	0.15	0.08	0.12	0.19	.	.	.	A2 V (Sr)	6	2	0	2
8959		4.74	0.17	0.08	0.11	0.16	.	.	.	A2 V	6	2	0	2
8961	V	3.82	1.72	1.02	0.78	1.35	1.85	2.50	.	G8 III-IV	5	2	2	1
8965		4.29	-0.39	-0.11	0.00	-0.09	.	.	.	B8 V	3	3	0	1
8969		4.13	0.51	0.51	0.44	0.75	.	.	.	F7 V	9	3	0	1
8974		3.21	1.98	1.03	0.75	1.26	.	.	.	K1 IV	8	3	0	1
8976		4.14	-0.32	-0.08	-0.01	-0.08	.	.	.	B8 V	4	2	0	1
8982		4.84	1.30	0.81	0.62	1.04	.	.	.	G0 Ib	2	3	0	1
8984		4.51	0.28	0.21	0.18	0.28	.	.	.	A7 V	6	2	0	1
8988		4.51	-0.17	-0.04	0.02	-0.03	.	.	.	B9.5 V	3	3	0	1
8997	D	4.93	1.59	0.96	0.71	1.19	.	.	.	K0 III	2	2	0	1
9004	V	5.04	6.11	2.61	1.87	3.22	4.12	5.60	5.93	C6,2 (N0)	2	2	2	1
9016		4.57	-0.01	0.00	0.04	0.02	.	.	.	A0 V	2	3	0	1

TABLE 2 UBVRIJKL PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	R	V	U-V	B-V	V-R	V-I	V-J	V-K	V-L	SP.	V	R	K	S
9030		5.79	3.39	1.66	0.26	0.80	.	.	.	(gM3)	3	3	0	4
9045	V	4.59	2.41	1.26	0.96	1.70	2.00	2.56	2.79	G0 Iap	3	3	3	1
9064		4.66	3.26	1.59	1.46	2.80	3.54	4.63	4.86	M3 III	5	2	4	1
9071	D	4.88	-0.89	-0.06	0.04	-0.07	.	.	.	B1 V	4	4	0	1
9072		4.01	0.49	0.42	0.38	0.62	.	.	.	F4 IV	3	3	0	1
9089		4.41	3.47	1.63	1.56	2.97	3.75	4.88	5.06	M3 III	3	3	5	1
9091		5.00	-0.73	-0.16	-0.05	-0.19	.	.	.	B5 III	5	5	0	2
9098		4.56	-0.16	-0.04	0.03	-0.01	.	.	.	B9 IV	5	5	0	1

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3	4.572	1.032	0.851	0.759	0.529	11111	1.32	38307.8138	44444
3	4.631	1.038	0.856	0.798	0.559	11111	1.27	38323.7285	44444
3	4.628	1.042	0.911	0.768	0.550	11111	1.39	38668.8471	44444
15	2.017	-0.121	-0.442	-0.037	-0.097	11111	1.01	38269.8960	44443
15	2.038	-0.103	-0.527	-0.008	-0.101	11111	1.00	38290.8221	44444
15	2.080	-0.085	-0.452	-0.020	-0.127	11111	1.15	38404.6041	44444
15	2.097	-0.127	-0.445	-0.039	-0.076	11111	1.17	38410.5949	44444
21	2.254	0.361	0.104	0.263	0.233	11111	1.17	38268.9530	21111
21	2.288	0.336	0.077	0.324	0.211	11111	1.11	38290.8293	44444
21	2.282	0.361	0.124	0.318	0.185	11111	1.23	38404.6119	44444
21	2.283	0.309	0.136	0.314	0.202	11111	1.25	38410.6026	44444
27	5.037	0.396	0.259	0.413	0.303	11111	1.06	38637.9204	44444
27	5.041	0.414	0.245	0.419	0.286	11111	1.07	38639.9218	44444
39	2.821	-0.226	-0.887	-0.029	-0.064	11111	1.04	37563.8005	22222
39	2.828	-0.220	-0.864	-0.112	-0.124	11111	1.15	37565.8668	22222
39	2.749	-0.257	-0.862	0.090	-0.040	11100	1.08	38294.7745	44444
39	2.826	-0.226	-0.871	-0.216	-0.201	11111	2.85	38300.0086	44422
39	2.813	-0.225	-0.861	-0.140	-0.217	11111	1.05	38323.7377	44444
39	3.036	-0.165	-0.867	-0.019	-0.214	11111	1.14	38367.5464	44444
39	2.891	-0.217	-0.868	-0.127	-0.237	11111	1.12	38368.5519	44444
39	2.845	-0.225	-0.860	-0.097	-0.217	11111	1.10	38369.5547	44444
39	2.939	-0.216	-0.840	-0.089	-0.231	11111	1.06	38370.5798	44444
39	2.888	-0.201	-0.937	-0.059	-0.252	11111	1.11	38371.5449	44444
45	4.794	1.582	1.940	1.384	0.988	11111	1.02	37563.8108	22222
45	4.780	1.578	1.939	1.366	1.095	11111	1.02	37565.7742	22222
45	4.798	1.585	1.873	1.305	1.119	11111	1.47	37668.6532	22222
45	4.821	1.598	1.897	1.302	1.159	11111	1.03	38270.9056	44443
45	4.801	1.588	1.903	1.359	1.100	11111	1.08	38298.8597	22222
45	4.852	1.541	1.904	1.364	1.130	11111	2.56	38371.8123	44444
45	4.825	1.566	1.941	1.349	1.110	11111	1.03	38377.5789	44444
45	4.817	1.576	1.954	1.376	1.109	11111	1.03	38378.5673	44444
45	4.846	1.570	1.938	1.359	1.132	11111	1.02	38379.5808	44444
45	4.777	1.553	1.927	1.305	1.126	11111	1.03	38380.5585	44444
45	4.789	1.563	1.938	1.341	1.107	11111	1.05	38381.6136	44444
45	4.851	1.580	1.949	1.348	1.123	11111	1.02	38383.5782	44444
45	4.787	1.574	1.923	1.338	1.120	11111	2.09	38383.7613	44444
45	4.868	1.575	1.940	1.370	1.118	11111	1.02	38387.5583	44444
45	4.756	1.566	1.952	1.328	1.141	11111	2.08	38387.7495	44444
45	4.800	1.580	1.920	1.330	1.120	11111	1.03	38390.5612	22222
45	4.827	1.565	1.958	1.322	1.104	11111	1.02	38391.5573	44444
45	4.766	1.592	1.902	1.364	1.140	11111	2.62	38391.7599	44444
45	4.802	1.565	1.939	1.337	1.124	11111	1.23	38392.6510	44444
45	4.781	1.586	1.917	1.312	1.111	11111	2.98	38392.7666	44444
45	4.828	1.572	1.993	1.322	1.119	11111	1.05	38397.5713	44444
45	4.783	1.602	1.896	1.315	1.130	11111	2.70	38397.7458	44444
45	4.801	1.572	1.920	1.363	1.132	11111	1.06	38399.5742	21211
45	4.802	1.577	1.942	1.323	1.150	11111	1.04	38400.5601	44444
45	4.813	1.555	1.894	1.358	1.119	11111	2.08	38400.7142	44444
45	4.780	1.572	1.943	1.346	1.114	11111	3.19	38403.7411	44444
45	4.810	1.566	1.904	1.382	1.108	11111	1.28	38410.6114	44444
45	4.814	1.570	1.909	1.373	1.114	11111	2.62	38439.6287	44444
45	4.796	1.564	1.905	1.329	1.129	11111	2.57	38440.6244	44444
45	4.831	1.585	1.904	1.354	1.131	11111	2.93	38441.6316	44444
45	4.856	1.566	1.936	1.337	1.129	11111	2.44	38446.6036	44444
45	4.820	1.572	1.922	1.357	1.125	11111	2.40	38448.5969	44444
45	4.805	1.579	1.895	1.347	1.121	11111	2.64	38450.5994	44444
45	4.825	1.586	1.908	1.354	1.109	11111	2.07	38544.9417	44444
45	4.814	1.577	1.904	1.338	1.109	11111	2.67	38558.8803	44444
45	4.801	1.570	1.931	1.320	1.124	11111	1.42	38563.9417	22222
45	4.821	1.584	1.935	1.345	1.134	11111	1.37	38564.9460	22222
45	4.806	1.559	1.918	1.347	1.129	11111	1.47	38565.9306	22222
45	4.806	1.574	1.919	1.341	1.118	11111	1.36	38566.9419	22222
45	4.838	1.535	1.936	1.382	1.110	11111	1.25	38567.9591	22222
45	4.853	1.559	1.921	1.377	1.116	11111	1.27	38568.9529	22222
45	4.791	1.577	1.970	1.337	1.115	11111	1.03	38637.8923	44444
45	4.792	1.579	1.924	1.337	1.119	11111	1.04	38639.9009	44444
45	4.789	1.585	1.911	1.327	1.140	11111	1.06	38655.8727	44444
45	4.780	1.557	1.903	1.348	1.099	11111	1.04	38670.8144	44444
45	4.800	1.567	1.925	1.337	1.113	11111	1.03	38671.8023	44444
45	4.797	1.551	1.943	1.341	1.109	11111	1.07	38673.8275	44444
45	4.825	1.562	1.938	1.357	1.115	11111	1.03	38676.7862	44444
45	4.805	1.556	1.920	1.358	1.103	11111	1.04	38677.8011	22222
45	4.774	1.560	1.878	1.321	1.111	11111	1.04	38679.7959	22222
45	4.793	1.560	1.929	1.337	1.117	11111	1.03	38680.7392	44444
45	4.786	1.555	1.951	1.332	1.128	11111	1.03	38700.6865	44444
45	4.798	1.571	1.926	1.322	1.119	11111	1.04	38711.6431	44444
45	4.788	1.591	1.940	1.318	1.130	11111	1.02	38712.6746	44444
45	4.783	1.564	1.907	1.337	1.106	11111	1.02	38719.6581	44444
45	4.754	1.594	1.915	1.302	1.128	11111	1.03	38720.6650	44444
45	4.794	1.561	1.940	1.356	1.092	11111	1.04	38727.6608	22222
45	4.771	1.601	1.950	1.337	1.101	11111	1.05	38728.6668	44444
45	4.764	1.582	1.942	1.315	1.124	11111	1.02	38729.6241	44444
45	4.800	1.580	1.920	0.000	0.000	11100	1.03	38747.5998	22200
45	4.804	1.568	1.925	1.332	1.130	11111	1.14	38756.6322	22222
45	4.800	1.574	1.933	1.328	1.118	11111	1.06	38764.5777	44444
45	4.812	1.577	1.911	1.353	1.114	11111	2.28	38936.8591	44444
45	4.805	1.567	1.940	1.353	1.127	11111	1.16	39032.7078	44444
45	4.797	1.584	1.919	1.346	1.121	11111	1.09	39033.7315	44444
45	4.794	1.587	1.931	1.334	1.131	11111	1.02	39033.7925	44444
45	4.807	1.568	1.924	1.343	1.143	11111	1.16	39034.7039	44444
45	4.800	1.585	1.927	1.329	1.122	11111	1.03	39034.7702	44444
45	4.831	1.587	1.922	1.348	1.131	11111	1.03	39036.8033	44444
45	4.788	1.575	1.944	1.323	1.110	11111	1.02	39055.7350	44444
45	4.790	1.573	1.910	1.284	1.165	11111	1.49	39056.5845	44444
45	4.790	1.568	1.922	1.325	1.140	11111	1.27	39056.6178	44444
45	4.791	1.588	1.906	1.329	1.127	11111	1.02	39056.7249	44444
45	4.772	1.569	1.926	1.289	1.139	11111	1.03	39057.7043	44444
45	4.792	1.579	1.934	1.298	1.150	11111	1.41	39058.5889	44444
45	4.755	1.581	1.909	1.321	1.096	11111	1.03	39058.7149	44444
45	4.783	1.571	1.932	1.321	1.105	11111	1.07	39059.7752	22222
45	4.785	1.597	1.902	1.333	1.103	11111	1.50	39060.5726	44444
45	4.773	1.578	1.932	1.330	1.128	11111	1.23	39060.6133	44444
45	4.788	1.583	1.918	1.326	1.145	11111	1.03	39060.7261	44444
45	4.778	1.600	1.899	1.339	1.114	11111	1.52	39061.5675	44444
45	4.791	1.552	1.955	1.324	1.149	11111	1.02	39061.7114	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
45	4.803	1.587	1.912	1.337	1.140	11111	1.52	39062.5644	44444
45	4.796	1.584	1.910	1.342	1.125	11111	1.10	39062.6458	44444
45	4.783	1.571	1.929	1.308	1.141	11111	1.02	39062.7078	44444
45	4.808	1.573	1.938	1.325	1.147	11111	1.38	39063.5789	44444
45	4.772	1.588	1.913	1.336	1.124	11111	1.02	39063.7027	44444
45	4.759	1.579	1.923	1.314	1.120	11111	1.45	39064.5672	44444
45	4.772	1.579	1.931	1.336	1.124	11111	1.03	39064.6856	44444
45	4.769	1.572	1.925	1.293	1.126	11111	1.40	39065.5707	44444
45	4.788	1.589	1.919	1.356	1.128	11111	1.03	39065.6916	44444
45	4.777	1.588	1.899	1.306	1.137	11111	1.02	39093.6287	44444
48	4.463	1.670	1.908	1.400	1.141	11111	1.65	38270.9130	44443
48	4.462	1.645	1.989	1.393	1.149	11111	1.61	38323.7489	44444
63	4.601	0.062	0.077	0.091	0.011	11111	1.06	38298.8693	22222
63	4.612	0.057	0.073	0.072	0.	11111	1.01	38310.7701	44444
68	4.497	0.048	0.070	0.066	0.004	11111	1.01	38269.9020	44443
68	4.494	0.071	0.080	0.085	-0.003	11111	1.08	38298.8788	22222
74	3.569	1.239	1.195	0.834	0.600	11111	1.37	38270.9198	44443
74	3.522	1.192	1.162	0.859	0.594	11111	1.33	38310.7756	44444
90	7.349	1.949	1.268	2.911	2.123	11111	1.12	39056.6463	44444
90	7.359	1.970	1.254	2.900	2.136	11111	1.04	39057.6820	44444
90	7.406	1.971	1.246	3.012	2.137	11111	1.20	39058.6163	44444
90	7.440	1.987	1.217	2.954	2.189	11111	1.16	39060.6238	44444
123	4.729	-0.094	-0.319	0.019	-0.108	11111	1.14	38298.8889	22222
123	4.734	-0.099	-0.336	-0.034	-0.040	11110	1.10	38311.7382	44444
123	4.739	-0.122	-0.400	0.011	-0.121	11111	1.08	38371.6072	44444
130	4.182	0.131	-0.810	0.055	0.079	11111	1.25	37668.6031	22222
130	4.171	0.153	-0.794	0.087	0.101	11111	1.59	37714.5745	22222
130	4.146	0.134	-0.790	0.152	0.072	11111	1.34	37835.9484	22222
130	4.104	0.139	-0.785	0.173	0.066	11111	1.35	37836.9440	22222
130	4.131	0.105	-0.809	0.173	0.049	11111	1.16	38295.8243	21122
130	4.196	0.128	-0.794	0.172	0.042	11111	1.18	38311.7315	44444
153	3.635	-0.147	-0.984	-0.061	-0.206	11111	1.07	38290.8371	44444
153	3.645	-0.194	-0.831	-0.097	-0.203	11111	1.15	38298.8975	22222
153	3.680	-0.204	-0.908	-0.075	-0.216	11111	1.07	38371.6148	44444
153	3.686	-0.200	-0.836	-0.089	-0.220	11111	1.17	38404.6193	44444
154	4.347	-0.155	-0.560	-0.048	-0.128	11111	1.01	38269.9267	44443
154	4.365	-0.171	-0.541	-0.027	-0.121	11111	1.00	38323.7615	44444
163	4.393	0.890	0.501	0.648	0.501	11111	1.01	38270.9265	44443
163	4.385	0.844	0.436	0.714	0.513	11111	1.01	38323.7710	44444
165	3.316	1.309	1.501	0.910	0.646	11111	1.02	38270.9330	44443
165	3.278	1.292	1.442	0.934	0.666	11111	1.01	38323.7798	44444
168	2.210	1.134	1.186	0.811	0.630	11111	1.09	38290.8441	44444
168	2.216	1.183	1.142	0.800	0.540	11011	1.18	38298.9069	22222
168	2.217	1.192	1.048	0.753	0.611	11111	1.09	38371.6226	44444
168	2.224	1.184	1.141	0.758	0.592	11111	1.23	38404.6403	44444
175	5.296	0.902	0.633	0.678	0.452	11111	1.02	38992.8898	44444
175	5.339	0.921	0.582	0.737	0.469	11111	1.02	38995.8776	44444
175	5.338	0.899	0.607	0.724	0.466	11111	1.01	38997.9081	44444
179	4.766	-0.097	-0.703	-0.020	-0.108	11111	1.05	38290.8509	44444
179	4.794	-0.098	-0.625	-0.012	-0.123	11111	1.22	38404.6484	44444
179	4.879	-0.119	-0.621	-0.010	-0.122	11111	1.20	38420.5977	44444
188	1.938	0.934		0.705	0.477	11011	2.46	38298.9476	22222
188	2.019	1.018	0.907	0.726	0.532	11111	1.66	38323.8011	44444
188	2.017	1.027	0.883	0.713	0.524	11111	1.99	38387.6743	44444
193	4.467	-0.065	-0.533	0.023	-0.055	11111	1.04	38295.8377	21122
193	4.524	-0.059	-0.526	0.071	-0.067	11111	1.18	38298.9278	22222
193	4.518	-0.056	-0.529	0.060	-0.035	11111	1.04	38310.7816	44444
194	4.680	0.974	0.751	0.718	0.475	11111	2.40	38298.9678	22222
194	4.773	1.004	0.855	0.751	0.521	11111	1.37	38310.7872	44444
194	4.727	1.011	0.853	0.723	0.515	11111	1.78	38387.6848	44444
194	4.779	1.017	0.850	0.761	0.505	11111	1.74	38415.6044	44444
215	4.029	1.083	0.843	0.849	0.574	11111	1.51	38298.9788	22222
215	4.138	1.129	0.877	0.861	0.610	11111	1.01	38324.7552	44444
215	4.005	1.127	0.901	0.831	0.581	11111	1.01	38371.6303	44444
219	3.444	0.560	0.055	0.476	0.381	11111	1.11	38269.9349	44443
219	3.410	0.594	0.039	0.524	0.332	11111	1.25	38298.9374	22222
224	4.439	1.523	1.878	1.175	0.875	11111	1.30	38301.7264	12221
224	4.449	1.506	1.865	1.174	0.856	11111	1.11	38324.7652	44444
226	4.491	-0.150	-0.579	-0.054	-0.150	11111	1.46	38298.9900	22222
226	4.535	-0.148	-0.563	-0.009	-0.160	11111	1.04	38301.7740	12221
235	5.171	0.557	-0.004	0.429	0.278	11111	1.40	38992.9005	44444
235	5.204	0.473	-0.009	0.485	0.282	11111	1.37	38997.9187	44444
244	4.827	0.524	0.190	0.479	0.280	11111	1.14	38381.6305	44444
244	4.845	0.522	0.090	0.473	0.298	11111	1.28	38420.6100	44444
244	4.798	0.540	0.080	0.486	0.331	11111	1.30	38421.6124	22222
248	4.779	1.573	1.919	1.252	0.905	11111	1.41	38301.7367	12221
248	4.776	1.562	1.917	1.206	0.917	11111	1.24	38345.6625	44444
253	4.864	1.216	1.275	0.946	0.616	11111	1.18	38301.7468	12221
253	4.821	1.217	1.257	0.893	0.613	11111	1.12	38343.7254	44444
264	2.361	-0.101	-1.092	0.104	-0.078	11111	1.18	38301.7626	12221
264	2.464	-0.125	-1.106	0.071	-0.090	11111	1.14	38343.7328	44444
264	2.323	-0.086	-1.114	0.033	-0.076	11111	1.38	38784.6457	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
265	4.656	0.962	0.693	0.794	0.501	11111	1.17	38301.7545	12221
265	4.627	0.961	0.697	0.741	0.504	11111	1.12	38343.7185	44444
269	3.842	0.145	0.168	0.138	0.055	11111	1.03	38301.7849	12221
269	3.889	0.100	0.129	0.167	0.088	11111	1.01	38345.6987	44444
271	4.403	0.943	0.730	0.748	0.483	11111	1.03	38301.7936	12221
271	4.383	0.955	0.652	0.701	0.486	11111	1.04	38345.7431	44444
276	6.282	0.926	0.611	0.637	0.447	11111	1.07	38992.9094	44444
276	6.353	0.909	0.603	0.712	0.475	11111	1.07	38995.9018	44444
276	6.300	0.924	0.586	0.659	0.464	11111	1.06	38997.9276	44444
280	4.240	-0.186	-0.600	-0.086	-0.178	11111	2.16	38301.8034	12221
280	4.308	-0.185	-0.533	-0.042	-0.111	11111	2.12	38345.7096	44444
285	4.290	1.218	1.280	0.882	0.604	11111	1.69	38299.7811	44422
285	4.250	1.210	1.331	0.891	0.605	11111	1.69	38345.7547	44444
285	4.252	1.196	1.374	0.889	0.590	11111	1.69	38365.6925	44444
290	6.004	0.152	0.118	0.186	0.077	11111	1.04	38995.8860	44444
290	5.970	0.176	0.088	0.163	0.016	11111	1.03	38997.9617	44444
294	4.270	0.955	0.680	0.869	0.569	11111	1.14	38268.9604	21111
294	4.240	0.978	0.754	0.744	0.489	11111	1.11	38365.6778	44444
294	4.346	0.948	0.700	0.743	0.516	11111	1.32	38406.6402	43333
294	4.279	0.982	0.689	0.749	0.521	11111	1.78	38408.6873	44444
315	6.069	1.039	0.838	0.751	0.519	11111	1.36	38997.9364	44444
330	5.537	0.352	-0.004	0.343	0.188	11111	1.14	38997.9532	44444
334	3.464	1.148	1.183	0.844	0.593	11111	1.39	38299.8077	44422
334	3.392	1.144	1.162	0.808	0.580	11111	1.36	38307.8234	44444
334	3.428	1.163	1.261	0.830	0.561	11111	1.42	38365.7030	44444
335	4.220	-0.062	-0.313	0.019	-0.058	11111	1.07	38365.7125	44444
335	4.275	-0.087	-0.340	0.032	-0.045	11111	1.04	38381.6403	44444
335	4.279	-0.071	-0.374	0.052	-0.045	11111	1.17	38406.6488	43333
335	4.242	-0.046	-0.329	0.014	-0.046	11111	1.40	38408.6964	44444
337	2.091	1.554	1.961	1.285	0.999	11111	1.03	38299.7981	44422
337	1.991	1.578	1.975	1.198	1.007	11111	1.00	38307.8312	44444
343	4.381	0.168	0.130	0.209	0.057	11111	1.08	38305.8161	44444
343	4.345	0.171	0.113	0.170	0.093	11111	1.09	38356.7054	44444
343	4.337	0.165	0.181	0.164	0.059	11111	1.12	38365.7206	44444
351	4.678	1.039	0.805	0.795	0.517	11111	1.03	38269.9427	44443
351	4.651	1.018	0.826	0.731	0.551	11111	1.02	38299.8278	44422
352	4.525	1.108	1.014	0.849	0.574	11111	1.01	38269.9495	44443
352	4.502	1.083	1.004	0.797	0.588	11111	1.00	38299.8369	44422
360	4.671	1.023	0.845	0.763	0.550	11111	1.01	38299.8455	44422
360	4.645	1.043	0.833	0.744	0.503	11111	1.03	38328.7322	44444
378	5.166	0.079	0.087	0.104	0.020	11111	1.15	38997.9453	44444
382	4.991	0.697	0.479	0.626	0.579	11111	1.11	38637.9304	44444
382	4.993	0.690	0.513	0.647	0.563	11111	1.11	38641.9125	22222
382	4.985	0.667	0.462	0.632	0.553	11111	1.11	38658.8863	22222
383	4.765	0.051	0.110	0.090	0.057	11111	1.01	38299.8551	44422
383	4.760	0.006	0.092	0.074	0.031	11111	1.01	38328.7450	44444
390	4.880	1.062	0.987	0.804	0.563	11111	1.03	38299.8628	44422
390	4.862	1.112	1.001	0.774	0.513	11111	1.03	38340.7192	11111
390	4.980	1.047	0.934	0.840	0.514	11111	1.17	38406.6595	43333
399	4.737	1.032	0.949	0.765		11110	1.24	38299.8810	44422
399	4.751	1.035	0.933	0.776	0.513	11111	1.23	38381.6520	44444
399	4.738	1.037	0.911	0.784	0.531	11111	1.34	38410.6525	44444
402	3.590	1.067	0.912	0.752	0.582	11111	1.32	38317.8053	44444
402	3.598	1.050	0.937	0.766	0.544	11111	1.37	38381.6659	44444
402	3.584	1.068	0.912	0.766	0.556	11111	1.57	38387.6962	44444
403	2.679	0.134	0.171	0.089	0.089	11111	1.13	38268.9358	21111
403	2.678	0.142	0.114	0.165	0.104	11111	1.13	38290.8889	44444
403	2.715	0.124	0.157	0.190	0.076	11111	1.13	38305.8223	44444
417	4.837	0.412	0.012	0.442	0.233	11111	1.04	38301.8133	12221
417	4.837	0.413	-0.011	0.376	0.228	11111	1.08	38381.6955	44444
417	4.827	0.427	-0.004	0.397	0.235	11111	1.37	38408.7046	44444
424	1.975	0.577	0.364	0.480	0.278	11111	1.82	38303.7995	12221
424	2.036	0.597	0.413	0.478	0.337	11111	1.82	38306.8539	44444
424	2.100	0.599	0.381	0.501	0.313	11111	1.82	38420.5876	44444
434	4.806	1.402	1.561	1.043	0.752	11111	1.21	38338.8123	22221
434	4.845	1.360	1.586	1.072	0.737	11111	1.15	38339.7057	44444
437	3.617	0.980	0.732	0.748	0.483	11111	1.05	37563.8214	22222
437	3.612	0.973	0.742	0.686	0.596	11111	1.06	37565.8813	22222
437	3.631	0.959	0.709	0.712	0.520	11111	1.05	38268.9447	21111
437	3.644	0.956	0.740	0.741	0.473	11111	1.05	38290.8966	44444
437	3.582	0.976	0.692	0.666	0.469	11111	1.14	38294.7979	44444
437	3.636	0.990	0.728	0.734	0.492	11111	1.05	38305.8292	44444
442	4.722	1.010	0.749	0.740	0.539	11111	1.12	38269.9561	44443
442	4.710	0.995	0.763	0.806	0.508	11111	1.13	38301.8212	12221
458	4.120	0.544	0.089	0.455	0.294	11111	1.02	38269.9623	44443
458	4.130	0.553	0.063	0.489	0.290	11111	1.01	38305.8477	44444
458	4.082	0.525	0.063	0.424	0.295	11111	1.01	38328.7734	44444
458	4.107	0.538	0.058	0.466	0.279	11111	1.01	38329.7645	44444
458	4.098	0.529	0.045	0.452	0.308	11111	1.02	38356.6731	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
464	3.592	1.283	1.444	0.976	0.650	11111	1.05	38301.8751	12221
464	3.583	1.286	1.387	0.937	0.650	11111	1.04	38306.8438	44444
477	4.914	-0.080	-0.421	-0.034	-0.070	11111	1.01	38295.8588	21122
477	4.973	-0.103	-0.389	0.011	-0.067	11111	1.01	38307.8487	44444
483	4.961	0.609	0.121	0.517	0.316	11111	1.02	38328.7907	44444
483	4.981	0.611	0.098	0.546	0.313	11111	1.02	38329.7730	44444
483	4.965	0.613	0.059	0.514	0.359	11111	1.02	38356.6943	44444
489	4.453	1.386	1.543	1.063	0.711	11111	1.12	38295.8735	21122
489	4.458	1.330	1.554	1.074	0.716	11111	1.14	38403.6073	44444
489	4.407	1.377	1.572	1.038	0.718	11111	1.18	38411.6060	44444
493	5.258	0.854	0.458	0.680	0.446	11111	1.02	38305.8388	44444
496	4.071	-0.040	-0.941	0.079	0.040	11111	1.33	37714.5823	22222
496	4.067	-0.045	-0.925	0.122	0.049	11111	1.47	37719.5959	22222
496	4.049	-0.043	-0.928	0.174	0.003	11111	1.44	37835.9572	22222
496	4.043	-0.012	-0.917	0.201	0.007	11111	1.45	37836.9530	22222
496	4.079	-0.040	-0.924	0.212	0.011	11111	1.06	38301.8833	12221
509	3.504	0.722	0.210	0.688	0.434	11111	1.48	37563.8372	22222
509	3.499	0.729	0.235	0.576	0.528	11111	1.52	37565.8955	22222
509	3.483	0.715	0.226	0.590	0.439	11111	1.51	38317.8165	44444
510	4.251	0.975	0.000	0.719	0.499	11011	1.11	38301.8927	12221
510	4.282	0.938	0.641	0.748	0.483	11111	1.12	38403.6168	44444
510	4.250	0.957	0.719	0.742	0.477	11111	1.16	38411.6183	44444
530	5.875	0.752	0.504	0.685	0.491	11111	1.04	38997.9930	44444
531	4.654	0.350	0.037	0.280	0.141	11111	1.71	38303.7616	12221
531	4.638	0.318	0.050	0.267	0.171	11111	1.60	38387.7073	44444
531	4.669	0.313	0.020	0.320	0.161	11111	1.83	38410.6716	44444
534	5.937	0.316	-0.020	0.340	0.162	11111	1.08	38997.9763	44444
539	3.729	1.162	1.085	0.802	0.544	11111	1.65	38303.7686	12221
539	3.742	1.115	1.041	0.839	0.545	11111	1.90	38410.6802	44444
539	3.699	1.151	1.045	0.773	0.549	11111	1.37	38658.8966	22222
542	3.326	-0.120	-0.693	0.007	-0.112	11111	1.17	38290.9057	44444
542	3.351	-0.159	-0.590	-0.014	-0.122	11111	1.19	38300.8238	43433
542	3.433	-0.164	-0.603	-0.071	-0.122	11111	1.19	38419.5908	44444
542	3.405	-0.170	-0.585	-0.063	-0.133	11111	1.23	38420.6194	44444
544	3.441	0.490	0.083	0.398	0.282	11111	1.00	38270.9427	44443
544	3.428	0.490	0.074	0.432	0.280	11111	1.00	38305.8539	44444
545	3.904	-0.020	-0.126	0.003	-0.067	11111	1.03	38270.9497	44443
545	3.853	-0.054	-0.137	0.024	-0.047	11111	1.11	38300.7971	43433
549	4.659	0.953	0.687	0.729	0.495	11111	1.21	38300.8150	43433
549	4.593	0.934	0.712	0.744	0.468	11111	1.29	38411.6418	44444
549	4.626	0.925	0.702	0.702	0.467	11111	1.26	38415.6230	44444
553	2.644	0.147	0.109	0.109	0.069	11111	1.08	38269.0129	21111
553	2.646	0.095	0.104	0.120	0.052	11111	2.12	38284.7201	44444
553	2.602	0.138	0.090	0.085	0.033	11111	1.15	38295.7958	21122
553	2.669	0.121	0.089	0.173	0.067	11111	1.03	38300.8415	43433
569	4.803	0.272	0.082	0.307	0.170	11111	1.03	38300.8339	43433
569	4.769	0.274	0.103	0.265	0.129	11111	1.24	38397.7168	44444
569	4.781	0.281	0.086	0.274	0.176	11111	1.03	38416.5837	22222
575	4.542	0.141	0.064	0.197	0.093	11111	1.28	38300.8495	43433
575	4.556	0.156	0.072	0.164	0.067	11111	1.34	38420.6279	44444
575	4.528	0.176	0.053	0.177	0.087	11111	1.33	38421.6214	22222
580	3.962	0.008	0.029	0.070	0.013	11111	1.30	38300.8567	43433
580	3.967	-0.021	0.028	0.087	-0.008	11111	1.31	38357.6778	44444
580	4.001	-0.010	0.041	0.033	-0.013	11111	1.38	38420.6385	44444
585	4.055	1.555	1.809	1.270	1.017	11111	1.69	38300.8748	43433
585	3.973	1.560	1.858		1.769	11100	2.14	38410.6625	44444
585	3.978	1.575	1.980	1.257	1.048	11111	1.75	38415.5943	44444
590	5.024	-0.076	-0.332	0.085	-0.038	11111	1.08	38300.8836	43433
590	5.061	-0.085	-0.323	-0.009	-0.049	11111	1.11	38419.5996	44444
590	5.025	-0.087	-0.306	-0.005	-0.040	11111	1.21	38420.6478	44444
596	3.779	0.042	-0.101	0.059	0.014	11111	1.17	38268.9844	21111
596	3.837	0.039	-0.076	0.086	0.004	11111	1.15	38305.8598	44444
596	3.837	-0.014	-0.094	0.101	-0.034	11111	1.28	38415.6312	44444
603	2.092	1.193	0.893	0.901	0.697	11111	1.25	38066.6408	22211
603	2.100	1.203	0.911	0.929	0.652	11111	1.03	38295.9190	21122
603	0.000	1.231	0.957	0.977	0.710	01111	1.02	38305.8794	44444
612	4.676	-0.214	-0.525	-0.065	-0.180	11111	2.28	38303.8185	12221
612	4.677	-0.160	-0.491	-0.080	-0.122	11111	2.12	38306.8622	44444
612	4.703	-0.148	-0.518	-0.017	-0.131	11111	2.12	38329.7850	44444
617	2.000	1.151	1.120	0.840	0.640	11111	1.19	38061.6307	12111
617	2.000	1.151	1.120	0.852	0.643	11111	1.06	38062.5847	22211
617	2.030	1.095	1.218	1.515	0.629	11001	1.08	38063.5911	11212
617	2.011	1.145	1.143	0.821	0.662	11111	1.25	38066.6303	22211
617	1.989	1.157	1.097	0.842	0.631	11111	1.92	38066.7028	22211
617	0.	1.165	1.160	0.090	-0.040	01100	1.08	38067.5795	44444
617	2.008	1.134	1.174	0.809	0.629	11111	1.19	38067.6160	44444
617	2.033	1.139	1.190	0.893	0.608	11111	2.23	38067.7160	44444
617	2.000	1.151	1.120	0.090	-0.040	11100	1.28	38075.6122	22211
617	2.000	1.151	1.120	0.819	0.658	11111	1.19	38076.5904	22211
617	2.086	1.138	1.178	0.566	0.608	11111	1.24	38080.5907	44444
617	2.000	1.149	1.120	0.846	0.633	11111	1.31	38081.6006	22211
617	0.	1.153	0.	0.090	-0.040	01000	2.08	38081.6707	22211
617	2.020	1.148	1.173	0.847	0.613	11111	1.68	38082.6416	44444
617	2.013	1.112	1.225	0.747	0.659	11111	1.71	38083.6418	44444
617	2.013	1.120	1.179	0.858	0.642	11111	1.58	38085.6244	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
617	1.991	1.173	1.159	0.886	0.627	11111	1.29	38086.5835	22222
617	2.000	1.151	1.120	0.862	0.642	11111	1.32	38087.5861	22211
617	1.986	1.132	1.155	0.870	0.630	11111	1.39	38089.5912	22222
617	2.010	1.156	1.162	0.861	0.649	11111	1.50	38095.5886	44444
617	2.013	1.164	1.130	0.891	0.617	11111	2.03	38095.6299	44444
617	1.989	1.145	1.108	0.808	0.651	11111	2.85	38095.6602	44444
617	2.000	1.151	1.120	0.840	0.640	11111	2.10	38096.6305	32211
617	1.985	1.163	1.148	0.861	0.628	11111	2.98	38098.6551	44444
617	2.034	1.150	1.161	0.910	0.610	11111	2.03	38103.6080	44444
617	2.014	1.139	1.137	0.838	0.664	11111	2.97	38108.6277	44444
617	2.084	1.284	1.269	1.322	0.594	11111	2.27	38109.6031	44444
617	1.994	1.192	1.109	0.664	0.735	11111	1.96	38202.9569	44444
617	2.004	1.169	1.149	0.856	0.614	11111	1.62	38203.9788	44444
617	2.003	1.124	1.124	0.843	0.602	11111	2.03	38284.7294	44444
617	1.645	1.135	1.107	0.090	-0.040	11100	1.01	38284.9223	44444
617	1.979	1.139	1.128	0.827	0.628	11111	1.02	38284.9325	44444
617	2.013	1.138	1.090	0.864	0.599	11111	2.16	38288.7120	12221
617	1.999	1.139	1.153	0.829	0.684	11111	1.01	38290.9126	44444
617	2.007	1.139	1.130	0.860	0.574	11111	1.72	38293.7248	44444
617	1.986	1.161	0.000	0.810	0.616	11011	1.10	38294.8194	44444
617	1.977	1.123	1.047	0.834	0.611	11111	2.05	38296.6954	44444
617	1.992	1.173	1.159	0.835	0.648	11111	1.28	38297.0055	44444
617	1.996	1.146	0.000	0.838	0.642	11011	1.07	38299.8203	44422
617	2.004	1.156	1.120	0.842	0.638	11111	1.40	38300.0174	44422
617	2.052	1.162	1.065	0.862	0.659	11111	1.02	38300.8928	43433
617	2.021	1.200	1.157	0.853	0.634	11111	1.03	38303.8363	12221
617	1.996	1.161	1.140	0.809	0.615	11111	2.36	38305.6572	44444
617	2.024	1.159	1.116	0.874	0.628	11111	1.02	38305.8860	44444
617	2.005	1.133	1.123	0.813	0.602	11111	2.49	38306.6496	44444
617	2.002	1.156	1.140	0.860	0.626	11111	1.01	38306.8702	44444
617	2.010	1.123	1.158	0.814	0.623	11111	2.36	38307.6517	44444
617	1.968	1.141	1.122	0.821	0.598	11111	1.01	38307.8571	44444
617	2.000	1.131	1.110	0.815	0.627	11111	2.22	38309.6520	11111
617	2.004	1.145	1.116	0.842	0.616	11111	2.41	38310.6415	44444
617	1.995	1.159	1.137	0.842	0.609	11111	1.01	38310.8533	44444
617	2.009	1.139	1.125	0.827	0.632	11111	2.21	38311.6468	44444
617	2.020	1.168	1.159	0.858	0.622	11111	1.02	38314.8585	22222
617	1.980	1.155	1.096	0.855	0.618	11111	1.08	38315.7727	44444
617	2.003	1.150	1.102	0.860	0.639	11111	2.76	38317.6114	44444
617	1.996	1.151	1.127	0.824	0.646	11111	1.01	38317.8276	44444
617	2.000	1.151	1.120	0.840	0.640	11111	2.02	38320.6316	24211
617	2.003	1.161	1.129	0.835	0.638	11111	1.02	38323.7898	44444
617	2.020	1.167	1.173	0.849	0.627	11111	1.03	38324.7749	44444
617	1.982	1.154	1.134	0.808	0.640	11111	1.30	38325.9300	22222
617	2.007	1.160	1.152	0.847	0.621	11111	1.02	38326.7787	22221
617	1.993	1.161	1.163	0.839	0.605	11111	1.54	38328.9549	44444
617	1.966	1.159	1.128	0.824	0.610	11111	1.42	38329.9372	44444
617	1.996	1.161	1.146	0.822	0.617	11111	1.15	38337.8655	22222
617	2.002	1.152	1.113	0.844	0.640	11111	2.02	38339.9605	44444
617	2.000	1.145	1.154	0.841	0.626	11111	1.03	38342.7313	21111
617	2.002	1.147	1.121	0.845	0.625	11111	1.03	38345.7198	44444
617	2.000	1.150	1.138	0.850	0.624	11111	1.26	38356.6085	44444
617	1.993	1.152	1.131	0.838	0.631	11111	1.01	38356.7154	44444
617	1.992	1.151	1.122	0.846	0.622	11111	1.26	38357.6068	44444
617	2.005	1.152	1.129	0.851	0.632	11111	1.01	38357.7200	44444
617	2.015	1.130	1.141	0.815	0.612	11111	1.17	38368.5963	44444
617	2.009	1.145	1.120	0.851	0.631	11111	1.01	38369.6985	44444
617	2.008	1.146	1.128	0.828	0.620	11111	1.02	38370.6725	44444
617	1.981	1.164	1.128	0.824	0.634	11111	1.02	38371.6649	44444
617	2.021	1.144	1.121	0.845	0.593	11111	1.02	38377.6484	44444
617	1.998	1.159	1.116	0.803	0.627	11111	1.02	38378.6472	44444
617	1.997	1.156	1.111	0.841	0.623	11111	1.02	38379.6788	44444
617	1.986	1.130	1.106	0.836	0.612	11111	1.07	38380.7177	44444
617	1.991	1.152	1.109	0.821	0.607	11111	1.01	38387.6502	44444
617	1.979	1.143	1.117	0.816	0.613	11111	2.23	38387.8393	44444
617	2.026	1.156	1.084	0.825	0.632	11111	1.01	38396.6093	44444
617	2.006	1.161	1.103	0.860	0.616	11111	2.86	38396.8360	44444
617	0.000	0.000	1.074	-0.014	0.000	00100	1.02	38397.6294	44444
617	1.982	1.143	1.109	0.864	0.611	11111	2.37	38397.8178	44444
617	1.997	1.155	1.181	-0.023	0.000	11100	1.06	38398.6619	44444
617	1.999	1.158	1.120	0.807	0.628	11111	1.04	38399.5677	21211
617	2.003	1.130	1.155	0.833	0.610	11111	1.01	38400.6126	44444
617	2.002	1.148	1.156	0.825	0.610	11111	2.76	38400.8225	44444
617	2.011	1.163	1.191	0.783	0.618	11111	1.04	38403.5526	44444
617	1.984	1.136	0.000	0.846	0.605	11011	1.02	38408.5683	44444
617	1.996	1.163	1.155	0.793	0.627	11111	1.03	38410.5474	44444
617	1.984	1.158	1.141	0.822	0.621	11111	1.01	38411.5790	44444
617	1.991	1.134	1.154	0.829	0.609	11111	1.02	38415.5774	44444
617	1.977	1.154	1.143	0.856	0.610	11111	3.34	38415.7945	44444
617	2.009	1.154	1.119	0.851	0.624	11111	1.02	38416.5739	22222
617	2.062	1.154	1.107	0.844	0.608	11111	1.02	38419.5785	44444
617	1.998	1.138	1.112	0.837	0.624	11111	5.00	38419.8044	44444
617	2.091	1.161	1.133	0.865	0.591	11111	1.02	38420.5674	44444
617	2.000	1.151	1.120	0.840	0.640	11111	1.03	38421.5741	22222
617	2.014	1.153	1.126	0.793	0.609	11111	1.09	38424.6054	44444
617	2.009	1.139	1.108	0.840	0.628	11111	2.83	38424.7588	44444
617	2.025	1.147	1.123	0.850	0.645	11111	1.10	38427.6002	44444
617	1.995	1.153	1.117	0.852	0.639	11111	1.50	38427.6803	44444
617	1.983	1.153	1.114	0.817	0.620	11111	2.46	38427.7394	44444
617	2.023	1.154	1.108	0.000	0.000	11100	1.34	38432.6448	44400
617	2.003	1.148	1.138	0.828	0.611	11111	2.32	38440.6985	44444
617	1.983	1.142	1.135	0.845	0.613	11111	2.52	38441.7031	44444
617	1.996	1.122	1.143	0.798	0.621	11111	2.64	38443.7014	44444
617	2.006	1.118	1.128	0.840	0.607	11111	2.47	38444.6934	44444
617	1.999	1.150	1.130	0.828	0.602	11111	2.41	38446.6856	44444
617	1.993	1.133	1.132	0.831	0.616	11111	2.51	38450.6782	44444
617	1.998	1.150	1.133	0.000	0.000	11100	1.37	38451.5983	44400
617	2.000	1.133	1.134	0.850	0.608	11111	2.52	38451.6759	44444
617	2.016	1.146	1.144	0.000	0.000	11100	1.24	38452.5716	22200
617	2.000	1.151	1.120	0.879	0.630	11111	1.90	38456.6339	44444
617	2.013	1.143	1.123	0.838	0.642	11111	1.55	38459.5980	22222
617	2.075	1.150	1.132	0.837	0.634	11111	1.45	38461.5816	22222
617	2.022	1.147	1.102	0.825	0.641	11111	1.69	38464.5966	44444
617	2.085	1.169	1.216	0.815	0.641	11111	2.16	38480.5825	44444
617	2.000	1.151	1.120	0.840	0.640	11111	2.33	38482.5844	44444
617	2.026	1.144	1.117	0.855	0.620	11111	2.61	38559.9524	44444
617	2.024	1.138	1.087	0.848	0.623	11111	2.29	38637.7506	44444
617	2.037	1.135	1.128	0.883	0.622	11111	1.80	38638.7741	44444
617	2.050	1.173	1.107	0.861	0.613	11111	1.01	38641.9333	22222
617	2.028	1.142	1.101	0.862	0.686	11111	1.09	38651.8462	22221

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
617	2.023	1.161	1.116	0.838	0.606	11111	1.02	38655.8863	44444
617	2.008	1.138	1.123	0.832	0.598	11111	1.10	38658.9682	22222
617	2.018	1.171	1.116	0.845	0.626	11111	1.02	38668.8908	44444
617	2.032	1.136	1.134	0.863	0.610	11111	1.04	38674.8114	44444
617	2.019	1.146	1.129	0.834	0.615	11111	1.01	38675.8598	44444
617	1.997	1.154	1.130	0.805	0.637	11111	1.02	38677.8682	22222
617	1.960	1.131	1.105	0.816	0.618	11111	1.01	38678.8379	44444
617	2.002	1.153	1.097	0.875	0.594	11111	1.03	38679.8747	22222
617	2.007	1.143	1.124	0.828	0.633	11111	1.01	38680.8296	44444
617	2.002	1.140	1.118	0.827	0.626	11111	1.05	38682.8769	44444
617	2.000	1.156	1.116	0.828	0.622	11111	1.01	38699.7904	22222
617	2.017	1.161	1.085	0.846	0.596	11111	1.99	38700.5929	44444
617	2.014	1.138	1.130	0.000	0.000	11100	1.03	38703.7456	44400
617	1.996	1.168	1.130	0.833	0.622	11111	1.02	38708.7432	44444
617	2.004	1.165	1.138	0.826	0.615	11111	1.03	38711.7184	44444
617	2.007	1.137	1.106	0.836	0.669	11111	1.42	38721.5841	22222
617	1.999	1.159	1.119	0.846	0.618	11111	1.03	38725.6809	22222
617	2.003	1.164	1.116	0.000	0.000	11100	1.03	38728.6766	44400
617	2.015	1.154	1.086	0.000	0.000	11100	1.16	38729.6114	22200
617	1.980	1.160	1.114	0.813	0.615	11111	1.01	38729.7040	44444
617	2.031	1.147	1.099	0.000	0.000	11100	1.04	38729.7407	22200
617	2.024	1.151	1.117	0.000	0.000	11100	1.13	38738.5955	22200
617	1.964	1.151	1.166	0.000	0.000	11100	1.05	38741.6201	44400
617	2.040	1.115	1.147	0.000	0.000	11100	1.02	38742.6901	22200
617	2.005	1.167	1.115	0.000	0.000	11100	1.07	38744.7222	22200
617	2.000	1.151	1.120	0.000	0.000	11100	1.02	38756.6535	11100
617	1.993	1.147	1.109	0.000	0.000	11100	1.04	38763.5654	22200
617	1.997	1.159	1.137	0.829	0.617	11111	1.02	38763.6238	44444
617	2.019	1.150	1.127	0.000	0.000	11100	1.02	38771.6142	44400
617	2.005	1.156	1.127	0.000	0.000	11100	1.43	38771.7297	44400
617	2.002	1.157	1.120	0.000	0.000	11100	1.02	38772.5639	22200
617	1.998	1.145	1.120	0.000	0.000	11100	1.03	38772.6160	22200
617	2.025	1.152	1.114	0.886	0.633	11111	1.02	38773.5640	44444
617	2.011	1.158	1.103	0.840	0.640	11111	1.24	38783.6658	44444
617	2.041	1.123	1.096	0.887	0.594	11111	1.08	38784.5478	44444
617	2.008	1.154	1.088	0.850	0.605	11111	1.95	38784.7382	44444
617	1.998	1.164	1.131	0.842	0.592	11111	1.05	38786.5964	44444
617	2.001	1.140	1.101	0.854	0.595	11111	1.02	38787.5686	44444
617	2.013	1.143	1.106	0.000	0.000	11100	1.17	38810.5757	44400
617	1.995	1.159	1.107	0.000	0.000	11100	2.41	38810.6889	44400
617	2.012	1.139	1.103	0.000	0.000	11100	1.40	38811.6167	44400
617	2.027	1.141	1.129	0.846	0.601	11111	1.30	38992.8589	44444
617	2.058	1.181	1.149	0.888	0.599	11111	1.68	38993.8110	22222
617	1.958	1.136	1.105	0.807	0.618	11111	1.85	38995.7935	44444
617	2.057	1.161	1.116	0.863	0.619	11111	1.12	38995.8936	44444
617	2.027	1.161	1.118	0.828	0.612	11111	1.60	38997.8076	44444
617	2.018	1.186	1.092	0.835	0.613	11111	1.01	38997.9694	44444
617	2.004	1.180	1.147	0.834	0.615	11111	1.05	39004.9010	44444
617	2.046	1.159	1.100	0.000	0.000	11100	1.20	39016.8136	44400
617	2.025	1.167	1.098	0.000	0.000	11100	1.06	39016.8632	44400
617	2.005	1.157	1.121	0.849	0.613	11111	1.19	39019.0103	44444
617	2.031	1.162	1.120	0.864	0.612	11111	1.03	39019.8782	44444
617	2.016	1.168	1.123	0.000	0.000	11100	1.04	39024.9326	44400
617	1.998	1.155	1.121	0.839	0.604	11111	1.01	39025.8913	44444
617	2.034	1.160	1.132	0.000	0.000	11100	1.03	39026.9165	44400
617	2.043	1.175	1.121	0.871	0.640	11111	1.06	39028.9359	44444
617	2.028	1.137	1.125	0.867	0.593	11111	1.75	39032.6997	44444
617	1.991	1.188	1.122	0.835	0.623	11111	1.14	39032.7876	44444
617	2.024	1.148	1.124	0.000	0.000	11100	1.06	39032.8187	44400
617	1.976	1.150	1.125	0.841	0.632	11111	1.02	39032.8596	44444
617	2.010	1.169	1.121	0.838	0.623	11111	1.45	39033.7249	44444
617	2.008	1.175	1.112	0.837	0.595	11111	1.18	39033.7717	44444
617	2.022	1.162	1.123	0.000	0.000	11100	1.12	39033.7891	44400
617	1.985	1.149	1.138	0.827	0.605	11111	1.01	39033.8650	44444
617	2.000	1.144	1.124	0.838	0.598	11111	1.55	39034.7118	44444
617	2.027	1.147	1.127	0.000	0.000	11100	1.10	39034.7962	44400
617	1.997	1.170	1.127	0.845	0.604	11111	1.02	39034.8550	44444
617	1.988	1.173	1.113	0.831	0.630	11111	1.14	39035.7780	44444
617	2.007	1.163	1.123	0.846	0.614	11111	1.01	39035.8540	44444
617	2.012	1.152	1.146	0.869	0.590	11111	1.05	39036.8109	44444
617	2.003	1.165	1.127	0.826	0.612	11111	1.03	39037.8901	44444
617	2.022	1.166	1.134	0.870	0.608	11111	1.01	39038.8540	44444
617	2.001	1.143	1.134	0.847	0.601	11111	1.02	39041.8272	44444
617	2.016	1.131	1.136	0.875	0.606	11111	1.02	39042.8276	44444
617	1.995	1.172	1.131	0.835	0.614	11111	1.03	39045.8093	44444
617	2.019	1.158	1.125	0.855	0.620	11111	1.04	39045.8779	44444
617	1.992	1.147	1.151	0.849	0.610	11111	1.71	39056.6370	44444
617	2.016	1.146	1.125	0.867	0.593	11111	1.27	39056.6907	44444
617	2.015	1.153	1.123	0.920	0.594	11111	1.02	39056.8334	44444
617	2.012	1.128	1.140	0.876	0.614	11111	1.68	39057.6365	44444
617	1.994	1.170	1.126	0.854	0.591	11111	1.01	39057.7990	44444
617	2.034	1.127	1.140	0.883	0.637	11111	2.10	39058.6068	44444
617	2.003	1.134	1.143	0.846	0.614	11111	1.02	39058.7854	44444
617	1.945	1.236	1.108	0.800	0.577	11111	1.03	39059.7694	22222
617	2.018	1.153	1.132	0.867	0.612	11111	2.26	39060.5941	44444
617	2.027	1.129	1.136	0.860	0.600	11111	1.30	39060.6742	44444
617	2.017	1.136	1.136	0.865	0.613	11111	1.01	39060.8034	44444
617	2.011	1.139	1.138	0.876	0.626	11111	2.38	39061.5866	44444
617	1.999	1.149	1.130	0.837	0.599	11111	1.40	39061.6558	44444
617	1.994	1.162	1.122	0.839	0.613	11111	1.01	39061.7889	44444
617	2.000	1.143	1.135	0.843	0.625	11111	2.06	39062.5981	44444
617	2.010	1.153	1.121	0.855	0.612	11111	1.54	39062.6362	44444
617	1.996	1.154	1.129	0.843	0.588	11111	1.01	39062.7849	44444
617	2.016	1.153	1.135	0.850	0.634	11111	2.27	39063.5855	44444
617	2.011	1.152	1.108	0.858	0.607	11111	1.25	39063.6758	44444
617	2.012	1.144	1.134	0.859	0.608	11111	1.01	39063.7890	44444
617	2.009	1.154	1.100	0.850	0.641	11111	2.49	39064.5745	44444
617	2.028	1.167	1.103	0.840	0.628	11111	1.22	39064.6794	44444
617	2.016	1.149	1.134	0.856	0.601	11111	1.01	39064.7751	44444
617	2.021	1.149	1.129	0.867	0.638	11111	2.34	39065.5773	44444
617	2.024	1.152	1.138	0.861	0.624	11111	1.69	39065.6143	44444
617	2.022	1.163	1.127	0.840	0.630	11111	1.02	39065.7671	44444
617	1.980	1.186	1.127	0.825	0.607	11111	1.15	39068.8625	44444
617	2.008	1.153	1.125	0.837	0.617	11111	1.03	39069.7439	44444
617	2.006	1.152	1.127	0.891	0.613	11111	1.55	39091.5564	22222
617	0.000	1.101	1.145	0.000	0.000	01100	1.04	39091.6696	22222
617	1.811	1.185	1.084	0.000	0.000	11100	1.03	39091.6765	22222
617	2.002	1.193	1.093	0.822	0.626	11111	1.02	39091.6855	22222
617	2.018	1.144	1.123	0.889	0.606	11111	1.66	39093.5399	44444
617	2.029	1.162	1.123	0.882	0.601	11111	1.03	39093.6782	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
617	1.963	1.147	1.139	0.882	0.574	11111	1.21	39096.5936	44444
617	1.962	1.134	1.104	0.888	0.583	11111	1.02	39096.7090	44444
617	1.992	1.167	1.131	0.810	0.624	11111	1.14	39098.7767	44444
617	1.990	1.154	1.142	0.824	0.628	11111	1.12	39100.6063	44444
617	2.021	1.147	1.132	0.827	0.632	11111	1.05	39128.5620	44444
617	1.996	1.147	1.134	0.835	0.616	11111	1.02	39128.5958	44444
617	2.004	1.151	1.137	0.870	0.617	11111	1.01	39129.6025	44444
618	5.724	0.581	-0.012	0.620	0.508	11111	1.14	38378.7112	44444
618	5.666	0.664	-0.033	0.575	0.508	11111	1.11	38638.9383	44444
620	4.793	0.121	0.133	0.088	0.066	11111	1.02	38268.9989	21111
620	4.849	0.127	0.117	0.188	0.064	11111	1.02	38305.8926	44444
620	4.847	0.106	0.170	0.154	0.057	11111	1.00	38370.6802	44444
622	3.005	0.153	0.136	0.127	0.087	11111	1.01	38268.9916	21111
622	3.003	0.159	0.141	0.152	0.066	11111	1.00	38306.8770	44444
648	5.708	1.529	1.953	1.246	0.977	11111	1.28	38337.8855	22222
648	5.653	1.576	1.998	1.208	0.948	11111	1.06	38339.8016	44444
648	5.677	1.572	1.972	1.266	0.975	11111	1.05	38370.6875	44444
649	4.367	0.873	0.588	0.661	0.507	11111	1.12	38269.0061	21111
649	4.368	0.892	0.618	0.675	0.474	11111	1.09	38310.8599	44444
664	3.956	0.025	0.012	0.008	-0.005	11111	1.02	38295.9311	21122
664	4.032	0.013	0.024	0.069	-0.009	11111	1.00	38307.8641	44444
664	0.000	0.038	0.000	0.000	0.000	01000	1.00	38641.9602	22222
664	4.029	0.023	0.014	0.024	-0.011	11111	1.00	38655.9126	44444
681	8.026	1.588	-0.144	4.197	3.256	11111	1.63	38299.0029	22222
681	8.088	1.581	-0.229	4.212	3.351	11111	1.23	38299.8934	44422
681	8.079	1.571	-0.236	4.206	3.349	11111	1.33	38299.9484	44422
681	8.060	1.578	-0.226	4.187	3.339	11111	1.55	38299.9907	44422
681	8.172	1.567	-0.264	4.196	3.420	11111	1.40	38300.8066	43433
681	8.160	1.575	-0.278	4.185	3.432	11111	1.24	38300.8650	43433
681	8.181	1.593	-0.272	4.218	3.436	11111	1.29	38300.9326	43433
681	8.168	1.562	-0.263	4.187	3.438	11111	1.68	38301.0027	43433
681	0.000	0.000	-0.176	0.090	3.416	00101	1.25	38301.8519	12221
681	0.000	0.000	-0.212	0.090	3.421	00101	1.30	38301.9327	12221
681	8.049	1.523	-0.292	4.283	3.420	11111	1.62	38301.9934	12221
681	8.092	1.576	-0.277	4.118	3.424	11111	1.26	38302.8422	22221
681	8.086	1.591	-0.284	4.108	3.432	11111	1.24	38302.9007	22221
681	8.165	1.594	-0.221	4.269	3.418	11111	1.26	38303.8442	12221
681	8.181	1.576	-0.195	4.273	3.425	11111	1.28	38303.9209	12221
681	8.123	1.565	0.007	4.150	3.216	11111	1.30	38367.6497	44444
681	8.117	1.591	0.004	4.157	3.224	11111	1.24	38367.7258	44444
681	7.090	1.501	0.538	3.658	3.055	11111	1.23	38391.6398	44444
681	3.329	1.609	0.945	1.975	1.873	11111	2.61	38466.6004	44444
681	3.511	1.742	0.730	2.319	1.874	11111	4.21	38480.5926	44444
681	8.205	1.666	-0.076	3.446	4.097	11111	1.23	38639.9605	44444
681	8.444	1.660	-0.127	4.379	3.521	11111	1.23	38651.9212	22221
681	8.654	1.596	-0.342	4.491	3.421	11111	1.24	38669.8505	44444
681	8.684	1.549	-0.224	4.383	3.498	11111	1.25	38676.8819	44444
681	8.754	1.567	-0.240	4.518	3.458	11111	1.23	38681.8530	44444
681	8.223	1.498	-0.285	4.266	3.304	11111	1.26	39062.7660	44444
681	8.230	1.662	-0.276	3.812	3.774	11111	1.23	39063.7815	44444
681	8.188	1.626	-0.243	4.271	3.311	11111	1.24	39064.7683	44444
681	8.154	1.586	-0.205	4.247	3.316	11111	1.89	39065.6561	44444
681	4.192	1.430	1.096	2.345	2.226	11111	1.23	39098.7019	44444
681	4.091	1.409	1.118	2.322	2.184	11111	1.28	39099.6523	44444
681	4.012	1.434	1.093	2.328	2.153	11111	1.42	39100.6133	44444
681	3.038	1.420	1.090	2.011	1.901	11111	1.25	39129.5907	44444
696	6.269	0.291	-0.617			11100	1.11	37563.9022	22222
696	6.300	0.269	-0.599	0.345	0.176	11111	1.10	38377.6694	44444
696	6.276	0.280	-0.615	0.337	0.197	11111	1.10	38379.6915	44444
699	4.666	1.537	1.843	1.111	0.865	11111	1.05	38307.8739	44444
699	4.729	1.529	1.882	1.226	0.866	11111	1.05	38370.6949	44444
699	4.723	1.536	2.020	1.225	0.853	11111	1.73	38482.5926	44444
707	4.500	0.134	0.073	0.171	0.058	11111	1.24	38296.8554	44444
707	4.493	0.132	0.092	0.157	0.056	11111	1.22	38323.8443	44444
707	4.555	0.115	0.036	0.155	0.060	11111	1.24	38419.6101	44444
707	4.567	0.130	0.052	0.170	0.047	11111	1.25	38432.5921	44444
708	4.886	-0.002	-0.050	-0.115	-0.126	11111	1.43	38296.8789	44444
708	4.873	-0.008	-0.046	0.025	0.005	11111	1.41	38315.8562	44444
708	5.743	-0.892	-0.029	0.854	-0.019	00001	1.41	38370.7027	44444
708	4.903	-0.054	-0.049	0.047	-0.003	11111	1.67	38404.6895	44444
710	5.778	0.123	0.000	0.151	0.023	11011	1.49	38997.9855	44444
718	4.259	-0.058	-0.139	0.037	-0.040	11111	2.64	37590.6251	22222
718	4.287	-0.050	-0.115	0.008	-0.029	11111	1.12	37590.7757	22222
718	4.277	-0.056	-0.150	0.040	-0.048	11111	2.98	37593.6084	22222
718	4.284	-0.064	-0.109	-0.007	-0.028	11111	1.11	37593.7697	22222
718	4.286	-0.044	-0.099	0.005	-0.037	11111	1.14	37594.7540	22222
718	4.298	-0.063	-0.099	0.073	-0.049	11111	1.08	37595.7989	22222
718	4.293	-0.068	-0.109	0.090	-0.040	11100	1.09	37597.8177	22222
718	4.288	-0.064	-0.116	0.040	-0.050	11111	1.09	37668.5874	22222
718	4.293	-0.063	-0.119	0.042	-0.048	11111	1.08	37668.6159	22222
718	4.306	-0.065	-0.118	0.036	-0.044	11111	1.15	37670.6569	22222
718	4.293	-0.061	-0.105	0.059	-0.062	11111	1.09	37673.6066	22222
718	4.305	-0.064	-0.096	0.087	-0.059	11111	1.19	37693.6072	22222
718	4.284	-0.042	-0.110	-0.003	-0.031	11111	1.23	37714.5595	22222
718	4.263	-0.017	-0.124	-0.011	-0.044	11111	1.30	37719.5628	22222
718	4.280	-0.052	-0.110	0.017	-0.030	11111	1.31	37720.5604	22222
718	4.317	-0.068	-0.099	0.035	-0.035	11111	1.40	38076.6177	22211
718	4.316	-0.098	-0.094	0.014	-0.033	11111	1.94	38103.5938	44444
718	4.279	-0.066	-0.082	-0.006	-0.049	11111	1.10	38310.8674	44444
718	4.278	-0.056	-0.092	-0.037	-0.014	11111	1.10	38315.8713	44444
718	4.280	-0.047	-0.139	0.024	-0.059	11111	2.40	38317.6616	44444
718	4.271	-0.048	-0.108	0.024	-0.048	11111	1.10	38317.8394	44444
718	0.000	-0.060	0.000	0.090	-0.040	01000	2.37	38320.6542	24211
718	4.281	-0.059	-0.123	0.040	-0.058	11111	1.11	38326.7934	22221
718	4.293	-0.039	-0.092	0.090	-0.040	11100	1.74	38328.9628	44444
718	4.208	-0.094	-0.132	-0.031	-0.032	11111	2.61	38330.0023	44444
718	4.293	-0.090	-0.089	0.040	-0.059	11111	1.45	38356.6192	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
718	4.278	-0.057	-0.125	0.015	-0.045	11111	1.10	38356.7252	44444
718	4.303	-0.084	-0.126	0.048	-0.058	11111	1.45	38357.6164	44444
718	4.275	-0.063	-0.108	0.019	-0.040	11111	1.10	38357.7304	44444
718	4.285	-0.056	-0.092	0.029	-0.052	11111	1.18	38360.7911	44444
718	4.298	-0.055	-0.114	0.054	-0.077	11111	1.10	38366.7041	44444
718	4.280	-0.060	-0.130	0.040	-0.040	11111	1.11	38390.6698	22222
718	4.269	-0.050	-0.113	-0.000	-0.056	11111	1.10	38396.6391	44444
718	4.269	-0.065	-0.151	-0.006	-0.041	11111	2.82	38396.8250	44444
718	4.301	-0.056	-0.114	0.035	-0.067	11111	1.10	38397.6357	44444
718	4.271	-0.056	-0.110	-0.005	-0.051	11111	2.44	38397.8109	44444
718	4.302	-0.062	-0.125	0.014	-0.043	11111	1.14	38398.6678	44444
718	4.257	-0.039	-0.124	-0.018	-0.049	11111	2.13	38398.7956	44444
718	4.288	-0.048	-0.143	0.039	-0.066	11111	1.10	38400.6263	44444
718	4.284	-0.067	-0.119	0.014	-0.036	11111	2.78	38400.8132	44444
718	4.297	-0.078	-0.089	0.024	-0.064	11111	1.15	38408.6463	44444
718	4.273	-0.057	-0.112	0.032	-0.072	11111	1.10	38411.5929	44444
718	4.299	-0.075	-0.116	0.034	0.000	11110	1.10	38415.5854	44444
718	4.294	-0.085	-0.167	0.014	-0.041	11111	3.35	38415.7846	44444
718	4.283	-0.071	-0.124	-0.016	-0.046	11111	2.47	38450.6673	44444
718	4.291	-0.079	-0.117	-0.001	-0.044	11111	2.48	38451.6650	44444
718	4.280	-0.059	-0.131	0.017	-0.032	11111	2.41	38456.6487	44444
718	4.289	-0.080	-0.116	0.047	-0.064	11111	1.85	38459.6130	22222
718	4.346	-0.075	-0.092	0.045	-0.082	11111	1.63	38461.5905	22222
718	4.261	-0.057	-0.124	0.040	-0.041	11111	2.00	38464.6087	44444
718	4.326	-0.050	-0.144	0.055	-0.061	11111	1.10	38637.9627	44444
718	4.277	-0.065	-0.129	0.032	-0.035	11111	2.22	38638.7895	44444
718	4.284	-0.058	-0.147	0.022	-0.016	11111	1.21	38651.8562	22221
718	4.273	-0.071	-0.127	0.018	-0.060	11111	1.14	38669.8335	44444
718	4.259	-0.040	-0.132	0.013	-0.068	11111	1.14	38670.8299	44444
718	4.268	-0.048	-0.134	0.014	-0.072	11111	1.18	38671.8119	44444
718	4.264	-0.049	-0.118	0.012	-0.061	11111	1.12	38673.8372	44444
718	4.288	-0.033	-0.121	0.032	-0.046	11111	1.14	38674.8193	44444
718	4.296	-0.052	-0.125	0.024	-0.056	11111	1.10	38675.8687	44444
718	4.261	-0.042	-0.129	0.003	-0.392	11110	1.10	38677.8744	22222
718	4.304	-0.052	-0.111	0.022	-0.059	11111	1.10	38676.8537	44444
718	4.248	-0.060	-0.138	0.019	-0.054	11111	1.10	38678.8445	44444
718	4.286	-0.052	-0.124	0.025	-0.055	11111	1.10	38679.8389	22222
718	4.269	-0.056	-0.119	-0.011	-0.053	11111	1.10	38680.8360	44444
718	4.276	-0.045	-0.119	0.007	-0.048	11111	1.20	38699.8676	22222
718	4.262	-0.053	-0.117	-0.001	-0.057	11111	1.13	38700.7568	44444
718	4.285	-0.052	-0.106	0.000	0.000	11100	1.12	38703.7510	44400
718	4.267	-0.047	-0.119	-0.009	-0.056	11111	1.15	38705.7293	44444
718	4.256	-0.046	-0.132	0.000	-0.060	11111	1.10	38708.7549	44444
718	4.274	-0.040	-0.103	0.003	-0.054	11111	1.16	38711.7089	44444
718	4.302	-0.070	-0.113	0.020	-0.058	11111	1.13	38712.7203	44444
718	4.279	-0.049	-0.122	-0.011	-0.043	11111	1.12	38719.7110	44444
718	4.257	-0.028	-0.145	-0.022	-0.029	11111	1.11	38720.7106	44444
718	4.280	-0.060	-0.130	0.042	-0.037	11111	2.01	38724.5646	22211
718	4.278	-0.046	-0.134	0.024	-0.050	11111	1.12	38725.6906	22222
718	4.299	-0.034	-0.123	-0.000	-0.058	11111	1.10	38727.7294	22222
718	4.297	-0.063	-0.135	0.000	0.000	11100	1.12	38728.6825	44400
718	4.284	-0.055	-0.141	0.000	0.000	11100	1.30	38729.6216	22200
718	4.278	-0.047	-0.095	0.023	-0.069	11111	1.12	38729.6844	44444
718	4.302	-0.065	-0.114	0.000	0.000	11100	1.11	38729.7457	22200
718	4.284	-0.075	-0.117	0.000	0.000	11100	1.29	38738.6008	22200
718	0.000	-0.067	-0.129	0.000	0.000	01100	1.10	38738.7073	22200
718	4.298	-0.071	-0.127	0.000	0.000	11100	1.11	38738.7191	22200
718	4.325	-0.104	-0.113	0.000	0.000	11100	1.29	38740.7791	22200
718	4.286	-0.014	-0.155	0.000	0.000	11100	1.17	38741.6251	44400
718	4.252	-0.048	-0.034	0.000	0.000	11100	1.10	38742.6951	22200
718	4.281	-0.068	-0.115	0.000	0.000	11100	1.15	38744.7277	22200
718	4.286	-0.045	-0.137	0.000	0.000	11100	1.15	38763.5714	22200
718	4.306	-0.097	-0.082	0.000	0.000	11100	1.10	38771.6194	44400
718	4.300	-0.091	-0.067	0.000	0.000	11100	1.56	38771.7337	44400
718	4.280	-0.060	-0.130	0.000	0.000	11100	1.12	38772.5674	22200
718	4.295	-0.059	-0.133	0.035	-0.061	11111	1.10	38773.5979	44444
718	4.300	-0.050	-0.096	0.031	-0.092	11111	1.13	38784.6080	44444
718	4.276	-0.039	-0.116	-0.012	-0.069	11111	1.10	38787.5797	44444
718	4.296	-0.042	-0.104	0.007	-0.058	11111	1.10	38789.5649	44444
718	4.300	-0.061	-0.110	0.000	0.000	11100	1.25	38810.5799	44400
718	4.258	-0.027	-0.120	0.000	0.000	11100	2.54	38810.6841	44400
718	4.267	-0.061	-0.111	0.000	0.000	11100	1.52	38811.6208	44400
718	4.285	-0.056	-0.130	0.044	-0.044	11111	2.25	39019.7449	44444
718	4.289	-0.058	-0.124	0.000	0.000	11100	1.11	39024.9369	44400
718	4.288	-0.039	-0.099	0.000	0.000	11100	1.10	39026.9208	44400
718	4.273	-0.042	-0.090	0.002	-0.061	11111	1.10	39028.9169	44444
718	4.287	-0.040	-0.124	0.000	0.000	11100	1.18	39032.8227	44400
718	4.282	-0.056	-0.104	0.000	0.000	11100	1.28	39033.7931	44400
718	4.288	-0.064	-0.125	0.000	0.000	11100	1.24	39034.8005	44400
718	4.294	-0.066	-0.123	0.038	-0.048	11111	1.25	39035.7953	44444
718	4.296	-0.054	-0.113	0.091	-0.048	11111	1.11	39037.8981	44444
718	4.291	-0.051	-0.101	0.020	-0.058	11111	1.10	39038.8637	44444
718	4.286	-0.050	-0.103	0.020	-0.051	11111	1.10	39041.8454	44444
718	4.291	-0.058	-0.111	0.017	-0.057	11111	1.11	39042.8362	44444
718	4.275	-0.034	-0.143	0.015	-0.050	11111	1.24	39068.8692	44444
718	4.272	-0.047	-0.126	0.034	-0.040	11111	1.23	39084.8242	22222
718	4.304	-0.065	-0.113	0.059	-0.070	11111	1.16	39099.7589	44444
718	4.288	-0.040	-0.095	0.027	-0.040	11111	1.14	39100.7482	44444
718	4.263	-0.037	-0.118	-0.016	-0.062	11111	1.13	39128.5835	44444
718	4.289	-0.058	-0.105	0.008	-0.057	11111	1.10	39128.6060	44444
740	4.918	0.294	0.014	0.569	0.278	11111	1.50	38296.8903	44444
740	4.746	0.444	-0.010	0.414	0.283	11111	1.49	38317.8521	44444
740	4.735	0.433	0.015	0.412	0.255	11111	1.49	38370.7106	44444
749	4.867	-0.061	-0.170	-0.047	-0.104	11111	2.28	38303.8275	12221
749	4.919	-0.068	-0.100	0.075	-0.083	11111	2.04	38356.7419	44444
753	5.844	0.972	0.807	0.881	0.515	11111	1.18	37565.8289	22222
753	5.804	0.969	0.801	0.863	0.454	11111	1.10	37569.8833	22222
753	5.829	0.976	0.777	0.951	0.504	11111	1.10	37592.8062	22222
753	5.827	0.977	0.804	0.829	0.529	11111	2.94	37593.6173	22222
753	5.837	0.962	0.783	0.797	0.552	11111	1.12	37593.7769	22222
753	5.844	0.969	0.782	0.848	0.520	11111	1.09	37595.8069	22222
753	5.830	0.960	0.792	0.090	-0.040	11100	1.10	37597.8216	22222
753	5.822	0.963	0.810	0.813	0.519	11111	1.14	37668.5650	22222
753	5.830	0.966	0.761	0.857	0.519	11111	1.10	37668.6239	22222
753	5.845	0.962	0.789	0.832	0.532	11111	1.18	37670.6657	22222
753	5.834	0.959	0.790	0.869	0.519	11111	1.21	37693.6141	22222
753	5.844	0.964	0.780	0.868	0.504	11111	1.25	37714.5667	22222

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
753	5.852	0.955	0.782	0.842	0.528	11111	1.33	37719.5699	22222
753	5.832	0.950	0.760	0.843	0.533	11111	1.34	37720.5678	22222
753	5.794	0.974	0.857	0.787	0.543	11111	2.00	38103.6000	44444
753	5.818	0.989	0.749	0.821	0.515	11111	1.12	38295.8941	21122
753	5.834	0.970	0.788	0.845	0.525	11111	1.14	38430.5806	44444
753	5.841	0.959	0.817	0.839	0.529	11111	2.62	38466.6312	44444
753	5.801	0.988	0.806	0.829	0.558	11111	1.13	38651.9068	22221
753	5.823	0.940	0.799	0.842	0.516	11111	2.01	38655.7615	44444
753	5.794	0.967	0.792	0.808	0.507	11111	1.15	38669.8416	44444
753	5.810	0.969	0.820	0.815	0.521	11111	1.18	38679.9144	22222
753	5.842	0.941	0.831	0.816	0.529	11111	1.22	38705.7166	44444
753	5.807	0.981	0.801	0.821	0.523	11111	1.16	38725.7829	22222
753	5.837	0.961	0.788	0.000	0.000	11100	1.14	38728.6891	44400
753	5.731	0.978	0.884	0.000	0.000	11100	1.32	38729.6273	22200
753	5.826	0.985	0.774	0.000	0.000	11100	1.13	38729.7508	22200
753	5.820	0.970	0.790	0.850	0.520	11111	1.11	38730.7255	22222
753	5.792	0.961	0.840	0.000	0.000	11100	1.31	38738.6057	22200
753	5.854	0.932	0.851	0.000	0.000	11100	1.26	38740.7737	22200
753	5.821	0.971	0.776	0.000	0.000	11100	1.14	38741.6522	44400
753	5.808	0.923	0.860	0.000	0.000	11100	1.11	38742.7000	22200
753	5.801	0.963	0.825	0.000	0.000	11100	1.62	38771.7426	44400
753	5.772	0.973	0.810	0.786	0.540	11111	1.54	38773.7291	44444
779	4.037	-0.200	-0.895	-0.047	-0.205	11111	1.18	38296.9061	44444
779	4.073	-0.222	-0.868	-0.100	-0.206	11111	1.18	38307.8813	44444
788	4.904	0.603				11000	1.04	38062.6019	22211
788	4.928	0.604	0.128	0.505	0.309	11111	1.01	38296.9179	44444
788	4.923	0.567	0.142	0.495	0.284	11111	1.01	38307.8934	44444
799	4.146	0.458	0.010	0.471	0.329	11111	1.15	38076.6073	22211
799	4.114	0.510	0.007	0.453	0.296	11111	1.05	38296.9275	44444
799	4.130	0.498	0.011	0.459	0.286	11111	1.04	38655.9200	44444
801	4.673	-0.123	-0.634	-0.001	-0.120	11111	1.01	38296.9374	44444
801	4.654	-0.132	-0.616	-0.039	-0.134	11111	1.00	38310.8738	44444
801	4.692	-0.138	-0.632	-0.022	-0.132	11111	1.00	38370.7179	44444
804	3.451	0.112	0.060	0.088	0.052	11111	1.17	38296.9474	44444
804	3.469	0.094	0.077	0.119	0.043	11111	1.15	38317.8646	44444
804	3.477	0.090	0.078	0.108	0.042	11111	1.30	38404.6977	44444
811	4.228	-0.123	-0.499	-0.035	-0.149	11111	1.45	38290.9238	44444
811	4.231	-0.118	-0.429	-0.053	-0.119	11111	1.45	38310.8800	44444
811	4.270	-0.151	-0.440	-0.008	-0.112	11111	1.76	38404.7056	44444
811	4.271	-0.163	-0.435	0.012	-0.154	11111	1.54	38415.6391	44444
813	4.293	0.316	0.096	0.318	0.174	11111	1.12	38296.9575	44444
813	4.279	0.306	0.066	0.303	0.188	11111	1.08	38356.7584	44444
813	4.260	0.294	0.087	0.282	0.205	11111	1.08	38416.5911	22222
818	4.475	0.490	0.009	0.433	0.284	11111	1.60	38305.8990	44444
818	4.453	0.472	-0.018	0.424	0.253	11111	1.59	38357.7430	44444
824	4.531	1.103	1.044	0.807	0.592	11111	1.01	38305.9071	44444
824	4.501	1.121	1.007	0.796	0.570	11111	1.00	38357.7559	44444
825	6.268	0.882	0.500	0.836	0.765	11111	1.10	38655.9285	44444
825	6.249	0.877	0.521	0.820	0.765	11111	1.11	38700.7821	44444
825	6.266	0.859	0.520	0.850	0.760	11111	1.12	38705.7517	44444
834	3.804	1.719	1.915	1.246	0.892	11111	1.11	38303.8527	12221
834	3.774	1.670	1.867	1.213	0.894	11111	1.09	38357.7684	44444
838	3.595	-0.098	-0.339	-0.014	-0.106	11111	1.01	38269.9685	44443
838	3.583	-0.071	-0.445	-0.023	-0.086	11111	1.00	38290.9311	44444
838	3.663	-0.128	-0.379	-0.049	-0.115	11111	1.03	38419.6196	44444
838	3.674	-0.121	-0.351	0.008	-0.119	11111	1.08	38439.5966	44444
840	4.266	0.357	0.101	0.292	0.203	11111	1.02	38270.9564	44443
840	4.216	0.349	0.063	0.314	0.281	11111	1.01	38290.9538	44444
840	4.244	0.338	0.096	0.301	0.189	11111	1.03	38419.6279	44444
840	5.352	0.385	0.053	0.356	0.251	01111	1.10	38420.6601	44444
843	4.528	1.537	1.963	1.170	1.116	11110	1.01	38290.9610	44444
843	4.529	1.595	1.945	1.219	0.964	11111	1.10	38302.8190	22221
843	4.547	1.554	1.898	1.222	0.948	11111	1.04	38419.6363	44444
843	4.521	1.535	1.908	1.219	0.941	11111	1.14	38420.6752	44444
850	4.767	0.902	0.621	0.689	0.472	11111	1.69	38310.8919	44444
850	4.783	0.894	0.616	0.696	0.448	11111	1.70	38415.6139	44444
850	4.755	0.903	0.584	0.705	0.492	11111	1.68	38416.5988	22222
854	3.982	0.763	0.472	0.655	0.445	11111	1.14	38302.8263	22221
854	3.923	0.746	0.440	0.597	0.000	11110	1.16	38397.7317	44444
854	3.956	0.744	0.460	0.615	0.420	11111	1.14	38439.6057	44444
874	3.849	1.133	0.935	0.800	0.610	11111	1.43	38062.6196	22211
874	3.867	1.127	1.008	0.799	0.556	11111	1.49	38302.8348	22221
874	3.893	1.096	1.016	0.778	0.573	11111	1.38	38668.8626	44444
875	5.170	0.084	0.050	0.098	0.067	11111	1.26	38062.5944	22211
875	5.182	0.066	-1.364	0.112	0.053	11011	1.29	38063.6031	11212
875	5.170	0.084	0.050	0.127	0.058	11111	1.54	38066.6506	22211
875	5.169	0.114	0.000	0.088	0.035	11111	1.40	38067.6244	44444
875	5.202	0.072	0.049	0.129	0.047	11111	2.22	38067.7017	44444
875	5.170	0.084	0.050	0.110	0.070	11111	2.07	38075.6725	22211
875	5.170	0.084	0.050	0.121	0.052	11111	1.39	38076.5987	22211
875	5.287	0.103	0.069	-0.196	0.035	11101	1.45	38080.5993	44444
875	5.170	0.084	0.050	0.104	0.077	11111	1.54	38081.6099	22211
875	5.155	0.067	0.025	0.108	0.091	11111	2.08	38082.6539	44444
875	5.156	0.103	0.027	0.078	0.072	11111	2.08	38083.6510	44444
875	5.162	0.103	0.014	0.099	0.069	11111	1.91	38085.6349	44444
875	5.170	0.084	0.050	0.088	0.068	11111	1.57	38087.5977	22211
875	5.167	0.062	-0.000	0.119	0.084	11111	1.64	38089.6009	22222
875	5.170	0.084	0.050	0.110	0.070	11111	2.22	38093.6307	44444
875	5.188	0.070	0.024	0.091	0.082	11111	3.03	38098.6436	44444
875	5.199	0.070	0.012	0.107	0.081	11111	2.60	38103.6185	44444
875	5.114	0.078	0.056	0.076	0.032	11111	1.24	38284.9672	44444
875	5.158	0.094	0.059	0.081	0.056	11111	2.13	38290.7906	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
875	5.139	0.111	0.034	0.099	0.073	11111	1.24	38290.9471	44444
875	5.169	0.084	0.050	0.048	-0.039	11111	2.64	38291.7674	34421
875	5.202	0.083	0.077	0.103	0.060	11111	2.39	38293.7707	44444
875	0.000	0.081	0.000	0.090	-0.040	01000	1.24	38294.9137	44444
875	5.163	0.110	0.082	0.115	0.057	11111	1.61	38297.0163	44444
875	5.156	0.106	0.092	0.067	0.053	11111	2.28	38305.7428	44444
875	5.168	0.047	-0.013	0.096	0.034	11111	3.04	38307.7132	44444
875	5.182	0.098	0.083	0.110	0.047	11111	1.24	38307.9016	44444
875	5.168	0.076	0.025	0.096	0.019	11111	2.51	38310.7201	44444
875	5.157	0.090	0.092	0.093	0.039	11111	1.24	38310.8857	44444
875	5.174	0.067	0.043	0.100	0.031	11111	2.50	38311.7177	44444
875	5.193	0.097	0.036	0.103	0.068	11111	2.31	38315.7140	44444
875	5.151	0.092	0.079	0.089	0.065	11111	1.26	38315.8995	44444
875	5.166	0.064	0.048	0.108	0.028	11111	1.89	38316.7342	22221
875	5.184	0.112	0.064	0.121	0.039	11111	1.32	38316.9230	22221
875	5.174	0.086	0.074	0.107	0.049	11111	1.24	38323.8543	44444
875	5.149	0.081	0.054	0.088	0.058	11111	1.92	38323.9834	44444
875	5.184	0.083	0.086	0.117	0.065	11111	1.24	38324.8578	44444
875	5.104	0.062	-0.016	0.072	0.041	11111	2.13	38324.9931	44444
875	5.143	0.094	0.020	0.093	0.048	11111	1.54	38325.9408	22222
875	5.149	0.081	0.096	0.078	0.047	11111	1.25	38327.8197	22222
875	5.182	0.077	0.027	0.093	0.069	11111	2.57	38328.6689	44444
875	5.159	0.078	0.079	0.115	0.049	11111	1.27	38328.8010	44444
875	5.233	0.102	0.045	0.173	0.058	11111	2.36	38329.6737	44444
875	5.194	0.091	0.068	0.098	0.087	11111	1.27	38329.7964	44444
875	5.208	0.109	0.034	0.139	0.061	11111	2.40	38345.6286	44444
875	5.168	0.090	0.056	0.109	0.062	11111	1.24	38345.7805	44444
875	5.148	0.079	0.047	0.085	0.056	11111	2.08	38345.9326	44444
875	5.168	0.094	0.094	0.130	0.052	11111	1.40	38356.6834	44444
875	5.156	0.093	0.068	0.128	0.064	11111	1.27	38366.7623	44444
875	5.165	0.084	0.051	0.111	0.068	11111	1.25	38430.5733	44444
875	5.240	0.081	0.084	0.102	0.030	11111	1.27	38431.5862	44444
875	5.190	0.086	0.061	0.000	0.000	11100	1.47	38432.6394	44400
875	5.173	0.075	0.097	0.000	0.000	11100	1.37	38441.5932	44400
875	5.176	0.082	0.057	0.000	0.000	11100	2.57	38441.6920	44400
875	5.166	0.080	0.066	0.000	0.000	11100	1.51	38451.5927	44400
875	5.174	0.085	0.085	0.000	0.000	11100	1.43	38452.5777	22200
875	5.200	0.074	0.042	0.116	0.046	11111	2.44	38466.6189	44444
875	5.172	0.080	0.060	0.130	0.073	11111	1.25	38651.9657	22221
875	6.757	0.856	-0.382	1.876	0.034	11111	2.50	38655.7754	44444
875	5.200	0.092	0.080	0.127	0.046	11111	1.24	38655.9460	44444
875	5.182	0.117	0.062	0.133	0.041	11111	1.24	38668.9004	44444
875	5.187	0.114	0.061	0.121	0.044	11111	1.24	38681.8788	44444
875	5.195	0.061	0.051	0.168	0.046	11111	1.34	38705.7407	44444
875	5.182	0.194	-0.061	0.135	0.043	11111	1.38	38721.6871	22222
875	5.164	0.119	0.055	0.080	0.071	11111	1.28	38722.7947	22222
875	5.155	0.094	0.082	0.087	0.046	11111	1.28	38722.7947	22222
875	5.157	0.085	0.052	0.000	0.000	11100	1.29	38728.6944	44400
875	5.198	0.082	0.054	0.127	0.053	11111	2.05	38729.5939	44444
875	5.190	0.082	0.055	0.000	0.000	11100	1.25	38729.7561	22200
875	5.171	0.083	0.011	0.000	0.000	11100	1.30	38741.6566	44400
875	5.190	0.212	-0.050	0.000	0.000	11100	1.24	38742.7051	22200
875	5.160	0.093	0.059	0.000	0.000	11100	2.35	38771.7798	44400
875	5.158	0.092	0.025	0.133	0.072	11111	1.77	38773.7403	44444
875	5.170	0.084	0.050	0.000	0.000	11100	2.30	38944.8200	33311
875	5.159	0.079	0.039	0.107	0.070	11111	1.95	38992.8790	44444
875	5.201	0.092	0.064	0.136	0.072	11111	2.32	38995.8515	44444
875	5.174	0.089	0.000	0.108	0.049	11111	1.99	38997.8629	44444
875	5.202	0.071	0.036	0.207	0.061	11111	1.24	39004.9796	44444
875	5.144	0.113	0.032	0.000	0.000	11100	1.86	39016.8201	44400
875	5.229	0.011	0.099	0.000	0.000	11100	1.36	39016.8852	44400
875	5.177	0.084	0.025	0.000	0.000	11100	2.50	39024.7653	44400
875	5.173	0.090	0.065	0.000	0.000	11100	1.26	39024.9589	44400
875	5.179	0.112	-0.001	0.128	0.054	11111	2.29	39025.7707	44444
875	5.162	0.078	0.018	0.118	0.062	11111	2.37	39031.7511	44444
875	5.219	0.080	0.043	0.151	0.038	11111	2.02	39032.7654	44444
875	5.143	0.087	0.060	0.095	0.073	11111	1.26	39032.8787	44444
875	5.186	0.086	0.042	0.130	0.045	11111	1.98	39033.7651	44444
875	5.168	0.081	0.071	0.109	0.051	11111	1.24	39033.8982	44444
875	5.179	0.094	0.052	0.000	0.000	11100	1.25	39033.9283	44400
875	5.184	0.074	0.045	0.124	0.056	11111	2.22	39034.7494	44444
875	5.164	0.094	0.067	0.107	0.044	11111	1.26	39034.8710	44444
875	5.189	0.079	0.044	0.127	0.048	11111	2.06	39035.7547	44444
875	5.161	0.087	0.061	0.108	0.068	11111	1.26	39035.8700	44444
875	5.192	0.081	0.065	0.121	0.043	11111	1.41	39036.8178	44444
875	5.184	0.071	0.037	0.137	0.069	11111	2.34	39056.6840	44444
875	5.169	0.093	0.066	0.086	0.062	11111	1.37	39056.7732	44444
875	5.172	0.074	0.074	0.118	0.064	11111	1.24	39056.8401	44444
875	5.173	0.090	0.018	0.115	0.076	11111	2.61	39057.6715	44444
875	5.165	0.085	0.066	0.089	0.042	11111	1.27	39057.8065	44444
875	5.164	0.103	0.014	0.114	0.046	11111	2.53	39058.6713	44444
875	5.166	0.089	0.056	0.107	0.036	11111	1.29	39058.7924	44444
875	5.169	0.083	0.059	0.100	0.038	11111	1.24	39059.8236	22222
875	5.163	0.082	0.028	0.091	0.087	11111	2.48	39060.6675	44444
875	5.170	0.088	0.063	0.096	0.062	11111	1.24	39060.8249	44444
875	5.170	0.091	0.019	0.085	0.080	11111	2.52	39061.6634	44444
875	5.182	0.068	0.077	0.113	0.054	11111	1.25	39061.8127	44444
875	5.173	0.094	0.025	0.110	0.065	11111	2.71	39062.6547	44444
875	5.175	0.080	0.079	0.103	0.052	11111	1.25	39062.8088	44444
875	5.154	0.092	0.013	0.112	0.063	11111	2.23	39063.6696	44444
875	5.164	0.091	0.058	0.104	0.038	11111	1.34	39063.7620	44444
875	5.197	0.092	0.061	0.134	0.056	11111	1.24	39063.8122	44444
875	5.186	0.075	0.060	0.123	0.054	11111	2.11	39064.6730	44444
875	5.182	0.093	0.064	0.137	0.039	11111	1.25	39064.7993	44444
875	5.138	0.124	0.006	0.112	0.096	11111	2.63	39065.6489	44444
875	5.206	0.005	0.038	0.075	0.002	11111	1.87	39065.6852	44444
875	5.137	0.077	0.069	0.096	0.054	11111	1.26	39065.7888	44444
875	5.180	0.070	0.052	0.119	0.062	11111	2.31	39069.6496	44444
875	5.166	0.081	0.041	0.108	0.053	11111	1.71	39093.6223	44444
875	5.168	0.075	0.085	0.091	0.067	11111	1.25	39093.7616	44444
875	5.210	0.056	0.082	0.144	0.030	11111	1.58	39096.6282	44444
875	5.110	0.071	0.039	0.048	0.035	11111	1.24	39096.7425	44444
879	4.697	0.069	0.098	0.076	0.046	11111	1.02	38270.9631	44443
879	4.711	0.054	0.146	0.128	0.038	11111	1.04	38302.8579	22221
882	4.944	1.244	1.264	0.864	0.643	11111	1.01	38270.9694	44443
882	4.933	1.261	1.294	0.919	0.644	11111	1.03	38302.8654	22221

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
896	4.686	-0.117	-0.421	-0.046	-0.088	11111	1.10	38270.9761	44443
896	4.712	-0.127	-0.463	0.003	-0.128	11111	1.14	38415.6470	44444
896	4.710	-0.114	-0.458	-0.048	-0.113	11111	1.16	38419.6454	44444
911	2.520	1.648	1.940	1.319	1.155	11111	1.14	38270.9828	44443
911	2.510	1.612	1.934	1.360	1.163	11111	1.14	38299.9019	44422
911	2.532	1.624	1.946	1.379	1.164	11111	1.16	38314.9109	22222
915	2.946	0.703	0.445	0.571	0.441	11111	1.07	38270.9894	44443
915	0.000	0.709	0.000	-0.023	0.473	01001	1.10	38314.9300	22222
915	2.923	0.692	0.497	0.609	0.422	11111	1.07	38365.7430	44444
919	4.068	0.176	0.063	0.119	0.101	11111	1.79	38299.9120	44422
919	4.066	0.159	0.105	0.145	0.079	11111	1.81	38323.8735	44444
921	3.370	1.670	1.684	1.887	1.575	11111	1.16	38081.6182	22211
921	3.412	1.671	1.737	1.731	1.649	11111	1.01	38271.0084	44443
932	4.874	0.045	0.063	0.070	-0.018	11111	1.36	38303.8612	12221
932	4.869	0.014	2.730	0.061	-0.005	11011	1.35	38381.7224	44444
932	4.884	0.009	0.033	0.115	-0.013	11111	1.49	38461.6138	22222
936	2.173	-0.038	0.000	0.014	-0.049	11011	1.01	38271.0145	44443
936	2.144	-0.074	-0.336	0.001	-0.020	11111	1.01	38381.7079	44444
936	2.133	-0.052	-0.439	0.099	-0.003	11111	1.01	38390.6827	22222
937	4.073	0.573	0.270	5.325	-0.662	11000	1.05	38299.9234	44422
937	4.058	0.587	0.167	0.538	0.292	11111	1.05	38365.7519	44444
937	4.071	0.607	0.113	0.519	0.288	11111	1.09	38404.5752	44444
941	3.790	0.978	0.826	0.745	0.532	11111	1.02	38299.9316	44422
941	3.770	0.994	0.890	0.726	0.464	11111	1.03	38365.7603	44444
941	3.879	0.972	0.768	0.752	0.493	11111	1.08	38406.6985	43333
947	4.611	1.108	1.013	0.828	0.593	11111	1.01	38299.9400	44422
947	4.624	1.100	1.053	0.811	0.551	11111	1.03	38381.7377	44444
947	4.697	1.112	0.985	0.849	0.559	11111	1.09	38406.7075	43333
951	4.347	1.040	0.866			11100	1.03	38295.9494	21122
951	4.328	1.025	0.907	0.753	0.507	11111	1.06	38383.7379	44444
951	4.429	1.031	0.802	0.782	0.518	11111	1.16	38406.7171	43333
963	3.848	0.513	0.048	0.438	0.301	11111	2.09	38310.8982	44444
963	3.845	0.504	0.054	0.455	0.303	11111	2.13	38323.8835	44444
972	4.871	-0.012	0.023	0.057	-0.025	11111	1.02	38301.9141	12221
972	4.882	-0.031	0.005	0.055	-0.033	11111	1.06	38383.7473	44444
972	4.911	-0.018	-0.048	0.067	-0.031	11111	1.17	38406.7257	43333
984	4.791	0.245	0.101	0.207	0.115	11111	1.33	38310.9042	44444
984	4.798	0.230	0.064	0.215	0.127	11111	1.69	38398.7571	44444
984	4.801	0.220	0.082	0.228	0.102	11111	1.40	38415.6570	44444
985	4.876	-0.163	-0.785	-0.048	-0.134	11111	1.22	38419.6554	44444
985	4.828	-0.145	-0.772	0.000	0.000	11100	1.28	38451.6058	44400
985	4.835	-0.130	-0.777	0.000	0.000	11100	1.25	38452.5852	22200
991				1.087	0.771	00011	1.01	38301.9433	12221
991	4.808	1.500	1.546	1.047	0.754	11111	1.18	38398.7655	44444
991	4.827	1.474	1.569	1.060	0.757	11111	1.06	38419.6658	44444
996	4.852	0.675	0.196	0.620	0.336	11111	1.15	37569.8740	22222
996	4.828	0.679	0.180	0.090	-0.040	11100	4.53	37590.6379	22222
996	4.861	0.692	0.207	0.523	0.377	11111	1.21	37590.7931	22222
996	4.860	0.676	0.206	0.636	0.347	11111	1.19	37592.7937	22222
996	4.826	0.677	0.197	0.507	0.394	11111	1.60	37668.7674	22222
996	4.823	0.696	0.000	0.560	0.360	11011	1.15	38301.9236	12221
996	4.846	0.694	0.206	0.565	0.351	11111	1.26	38302.8503	22221
999	4.506	1.459	1.726	1.228	0.893	11111	1.12	38076.6273	22211
999	4.463	1.586	0.000	1.223	0.887	11011	1.02	38301.9581	12221
999	4.428	1.562	1.814	1.157	0.860	11111	1.09	38419.6751	44444
1002	4.960	0.076	0.069	0.118	0.016	11111	1.04	38301.9665	12221
1002	4.962	0.056	0.034	0.036	-0.004	11111	1.11	38419.6844	44444
1002	4.942	-0.005	0.094	0.000	0.000	11100	1.03	38439.5833	44400
1003	3.719	1.631	1.811	1.518	1.515	11111	1.71	38317.8764	44444
1003	3.686	1.616	1.812	1.599	1.439	11111	2.02	38387.7665	44444
1003	3.687	1.614	1.812	1.617	1.418	11111	1.84	38415.6655	44444
1017	1.782	0.494	0.405	0.485	0.323	11111	1.08	38301.9757	12221
1017	1.805	0.458	0.363	0.436	0.324	11111	1.09	38315.8276	44444
1017	1.808	0.503	0.422	0.417	0.332	11111	1.09	38316.9426	22221
1017	1.810	0.476	0.392	0.448	0.337	11111	1.05	38317.8872	44444
1030	3.591	0.903	0.608	0.684	0.414	11111	1.11	37565.9648	22222
1030	3.592	0.901	0.604	0.718	0.424	11111	1.12	37569.8651	22222
1030	3.621	0.901	0.618	0.662	0.503	11111	1.09	38317.8975	44444
1030	3.597	0.919	0.649	0.660	0.444	11111	1.16	38340.7641	11111
1030	3.603	0.887	0.585	-0.023	0.000	11100	1.19	38392.7474	44444
1030	3.568	0.879	0.594	-0.023	0.000	11100	1.48	38392.8030	44444
1034	6.071	-0.085	-0.525	-0.042	-0.096	01111	1.14	38419.6957	44444
1034	4.968	-0.121	-0.596	-0.014	-0.041	11111	1.05	38430.5939	44444
1034	4.984	-0.129	-0.592	0.000	0.000	11100	1.04	38651.9766	22221
1034	5.000	-0.146	-0.579	0.040	-0.099	11111	1.05	38652.0003	22221
1034	5.034	-0.106	-0.578	0.039	-0.126	11111	1.26	38782.7404	22222
1034	5.002	-0.095	-0.528	0.004	-0.076	11111	1.11	38784.6823	44444
1035	4.205	0.409	-0.238	0.375	0.389	11111	1.16	37668.6778	22222
1035	4.191	0.403	-0.219	0.355	0.373	11111	1.27	37693.6774	22222
1038	3.678	-0.045	0.000	-0.004	-0.096	11011	1.15	38301.9848	12221
1038	3.722	-0.085	-0.331	-0.043	-0.115	11111	1.10	38424.6189	44444
1038	3.803	-0.080	-0.332	-0.011	-0.095	11111	1.48	38469.5965	44444
1038	3.790	-0.092	-0.328	0.002	-0.080	11111	1.92	38480.6038	44444
1038	3.734	-0.142	-0.316	0.035	-0.075	11111	1.97	38482.6009	44444
1038	3.790	-0.117	-0.326	0.007	-0.091	11111	1.87	38483.5925	22222

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1040	4.541	0.548	-0.085	0.534	0.490	11111	1.14	37693.5594	22222
1040	4.543	0.560	0.496	0.077	-0.040	11000	1.16	37693.6275	22222
1040	4.547	0.552	-0.097	0.490	0.509	11111	1.18	37693.6394	22222
1040	4.557	0.554	-0.094	0.479	0.508	11111	1.23	37693.6682	22222
1040	4.558	0.576	-0.113	0.077	-0.040	11100	1.27	37693.6839	22222
1040	4.556	0.553	-0.118	0.000	0.000	11100	1.13	38439.5889	44400
1044	4.717	-0.098	-0.572	0.036	-0.095	11111	1.08	38302.8745	22221
1044	4.616	-0.097	-0.612	0.000	0.000	11100	1.07	38439.5937	44400
1044	4.721	-0.085	-0.558	0.000	0.000	11100	1.25	38453.6389	44400
1046	5.144	-0.004	0.073	0.615	-0.040	11100	1.21	38089.6149	22222
1046	5.118	0.011	0.053	0.064	-0.031	11111	1.09	38368.7583	44444
1046	5.168	0.008	0.146	0.101	-0.025	11111	1.09	38370.7292	44444
1046	5.092	0.005	0.057	0.000	0.000	11100	1.19	38451.6128	44400
1046	5.113	0.022	0.052	0.000	0.000	11100	1.15	38452.5913	22200
1052	4.404	1.288	1.467	1.078	0.748	11111	1.14	38076.6383	22211
1052	4.366	1.397	1.574	1.109	0.758	11111	1.11	38302.0078	12221
1052	4.360	1.349	1.542	0.000	0.000	11100	1.06	38439.5979	44400
1066	4.098	1.153	1.014	0.782	0.565	11111	1.09	38302.8916	22221
1066	4.091	1.113	1.029	0.754	0.540	11111	1.20	38397.7529	44444
1066	4.099	1.115	1.016	0.767	0.529	11111	1.08	38424.6271	44444
1069	5.299	0.439	0.009	0.399	0.225	11111	1.11	38641.9232	22222
1069	5.358	0.401	-0.013	0.411	0.240	11111	1.04	38655.9383	44444
1069	0.000	0.000	-0.044	0.000	0.217	00101	1.08	38669.8600	44444
1070	4.732	-0.091	-0.252		-0.096	11101	1.32	38302.8830	22221
1070	4.731	-0.081	-0.282	0.017	-0.063	11111	1.26	38416.6066	22222
1070	4.731	-0.110	-0.254	-0.029	-0.095	11111	1.30	38424.6351	44444
1084	3.724	0.886	0.585	0.758	0.423	11111	1.33	37565.9538	22222
1084	3.731	0.876	0.585	0.647	0.517	11111	2.26	37594.7077	22222
1084	3.745	0.872	0.591	0.817	0.455	11111	1.32	37673.6147	22222
1084	3.725	0.872	0.554	0.688	0.488	11111	3.01	38306.7542	44444
1084	3.698	0.888	0.977	5.202	0.470	11001	1.35	38307.9249	44444
1084	3.724	0.907	0.563	0.731	0.463	11111	3.45	38310.7339	44444
1084	3.704	0.890	0.603	0.710	0.461	11111	1.34	38310.9104	44444
1084	3.714	0.880	0.590	0.714	0.474	11111	1.36	38314.8737	22222
1084	3.690	0.875	0.529	0.672	0.484	11111	1.75	38316.7887	22221
1084	3.729	0.898	0.599	0.738	0.465	11111	1.35	38316.9083	22221
1084	3.743	0.898	0.573	0.734	0.472	11111	2.81	38323.7131	44444
1084	3.723	0.880	0.541	0.725	0.477	11111	1.35	38323.8637	44444
1084	3.725	0.879	0.567	0.742	0.477	11111	1.94	38323.9942	44444
1084	3.773	0.908	0.615	0.754	0.487	11111	2.83	38324.7098	44444
1084	3.701	0.869	0.534	0.712	0.472	11111	1.35	38324.8707	44444
1084	3.686	0.853	0.544	0.691	0.451	11111	1.68	38327.7658	22222
1084	3.719	0.885	0.563	0.751	0.484	11111	2.49	38328.7099	44444
1084	3.704	0.895	0.561	0.703	0.464	11111	1.34	38328.8628	44444
1084	3.765	0.912	0.573	0.761	0.479	11111	2.22	38329.7190	44444
1084	3.725	0.889	0.592	0.718	0.470	11111	1.43	38339.8810	44444
1084	3.727	0.884	0.581	0.740	0.470	11111	2.25	38345.6738	44444
1084	3.712	0.889	0.516	0.720	0.473	11111	1.36	38345.7893	44444
1084	3.699	0.873	0.569	0.698	0.480	11111	2.07	38345.9426	44444
1084	3.730	0.890	0.570	0.730	0.470	11111	2.22	38348.6675	23333
1084	3.742	0.865	0.543	0.758	0.467	11111	1.65	38356.8756	44444
1084	3.754	0.874	0.575	0.750	0.455	11111	2.01	38367.6278	44444
1084	3.762	0.879	0.588	0.732	0.437	11111	2.24	38369.6090	44444
1084	3.746	0.880	0.572	0.750	0.462	11111	2.58	38370.5919	44444
1084	3.671	0.934	0.589	0.690	0.458	11111	2.50	38371.5921	44444
1084	3.763	0.915	0.558	0.748	0.459	11111	2.18	38377.5903	44444
1084	3.718	0.882	0.565	0.717	0.472	11111	1.35	38377.7386	44444
1084	3.706	0.877	0.556	0.725	0.480	11111	2.28	38377.8668	44444
1084	3.762	0.898	0.557	0.756	0.491	11111	2.25	38378.5842	44444
1084	3.714	0.878	0.568	0.700	0.467	11111	1.35	38378.7339	44444
1084	3.715	0.893	0.558	0.718	0.465	11111	1.35	38379.7280	44444
1084	3.692	0.870	0.527	0.683	0.464	11111	2.40	38380.8638	44444
1084	3.805	0.898	0.560	0.746	0.454	11111	1.95	38391.5666	44444
1084	3.695	0.886	0.553	0.686	0.443	11111	1.35	38391.6744	44444
1084	3.719	0.885	0.552	0.694	0.453	11111	1.36	38392.6658	44444
1084	3.700	0.865	0.606	0.688	0.466	11111	1.35	38396.6871	44444
1084	3.704	0.889	0.599	0.692	0.479	11111	3.47	38396.8494	44444
1084	3.718	0.884	0.549	0.725	0.472	11111	1.35	38398.6731	44444
1084	3.719	0.880	0.577	0.713	0.466	11111	1.37	38404.6802	44444
1084	3.725	0.877	0.594	0.726	0.468	11111	1.48	38410.6999	44444
1084	3.719	0.887	0.572	0.703	0.489	11111	1.36	38416.6454	22222
1084	3.752	0.870	0.577	0.733	0.474	11111	1.36	38425.6204	44444
1084	3.763	0.888	0.579	0.724	0.447	11111	2.47	38425.7440	44444
1084	3.816	0.882	0.581	0.727	0.456	11111	1.34	38432.5775	44444
1084	3.680	0.852	0.670	0.000	0.000	11100	1.35	38439.5731	44400
1084	3.766	0.876	0.568	0.710	0.477	11111	1.37	38439.5882	44444
1084	3.737	0.855	0.625	0.000	0.000	11100	1.38	38440.5892	44400
1084	3.786	0.885	0.568	0.692	0.491	11111	1.39	38440.5925	44444
1084	3.808	0.886	0.553	0.728	0.481	11111	1.39	38441.5911	44444
1084	3.772	0.861	0.569	0.680	0.471	11111	1.41	38443.5913	44444
1084	3.773	0.871	0.570	0.701	0.507	11111	1.57	38444.6250	44444
1084	0.000	0.000	0.550	0.000	0.475	00101	1.44	38446.5926	44444
1084	3.778	0.882	0.547	0.709	0.461	11111	1.43	38448.5856	44444
1084	3.717	0.859	0.588	0.694	0.470	11111	2.89	38448.6945	44444
1084	3.795	0.877	0.568	0.721	0.459	11111	1.46	38450.5877	44444
1084	3.741	0.905	0.571	0.684	0.476	11111	1.45	38451.5825	44444
1084	3.734	0.894	0.566	0.000	0.000	11100	2.17	38451.6592	44400
1084	3.716	0.870	0.573	0.710	0.474	11111	2.89	38451.6865	44444
1084	3.721	0.890	0.614	0.000	0.000	11100	1.67	38452.6168	22200
1084	3.722	0.900	0.596	0.672	0.461	11111	2.53	38452.6725	44444
1084	3.772	0.883	0.574	0.709	0.451	11111	1.49	38453.5848	44444
1084	3.711	0.857	0.574	0.706	0.459	11111	2.80	38453.6784	44444
1084	3.686	0.917	0.611	0.000	0.000	11100	1.64	38459.5931	44400
1084	3.765	0.850	0.576	0.000	0.000	11100	2.88	38459.6645	44400
1084	3.760	0.870	0.578	0.708	0.474	11111	2.07	38469.6042	44444
1084	3.709	0.891	0.582	0.000	0.000	11100	2.56	38475.6108	44400
1084	3.694	0.885	0.564	0.704	0.461	11111	3.46	38475.6335	44444
1084	3.746	0.892	0.605	0.714	0.446	11111	1.39	38639.9705	44444
1084	3.714	0.882	0.580	0.728	0.359	11111	1.38	38652.0104	22221
1084	3.755	0.880	0.587	0.740	0.460	11111	1.35	38655.9525	44444
1084	3.771	0.913	0.594	0.724	0.488	11111	1.44	38669.9799	44444
1084	3.729	0.874	0.565	0.736	0.451	11111	2.19	38681.7569	44444
1084	3.772	0.899	0.637	0.727	0.473	11111	2.19	38682.7543	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1084	3.716	0.888	0.597	0.710	0.467	11111	1.37	38699.8747	22222
1084	3.730	0.897	0.571	0.742	0.470	11111	1.60	38700.9278	44444
1084	3.717	0.877	0.664	0.728	0.445	11111	1.34	38721.7835	22222
1084	3.732	0.879	0.566	0.738	0.470	11111	1.70	38722.6819	22222
1084	3.730	0.890	0.570	0.728	0.467	11111	2.05	38724.6474	22211
1084	3.708	0.884	0.579	0.000	0.000	11100	1.48	38728.7003	44400
1084	3.750	0.874	0.587	0.694	0.488	11111	2.46	38729.6133	44444
1084	3.718	0.890	0.594	0.000	0.000	11100	1.38	38740.7677	22200
1084	3.706	0.863	0.548	0.000	0.000	11100	1.47	38741.6673	44400
1084	3.704	0.882	0.607	0.000	0.000	11100	1.38	38744.7560	22200
1084	3.768	0.860	0.562	0.000	0.000	11100	2.24	38771.7860	44400
1084	3.751	0.883	0.573	0.746	0.462	11111	2.65	38773.7972	44444
1084	3.701	0.867	0.605	0.707	0.452	11111	1.62	38784.7007	44444
1084	3.720	0.879	0.577	0.000	0.000	11100	1.36	38792.6128	22200
1084	3.717	0.871	0.583	0.681	0.486	11111	1.48	38818.5844	22222
1084	3.721	0.893	0.566	0.726	0.449	11111	2.21	39018.8331	44444
1084	3.726	0.891	0.593	0.000	0.000	11100	2.49	39024.8042	44400
1084	3.721	0.890	0.585	0.000	0.000	11100	1.35	39024.9632	44400
1084	3.724	0.861	0.614	0.715	0.480	11111	2.42	39025.8044	44444
1084	3.728	0.889	0.599	0.000	0.000	11100	1.37	39026.9780	44400
1084	3.721	0.890	0.566	0.708	0.443	11111	2.27	39028.8027	44444
1084	3.730	0.901	0.585	0.711	0.485	11111	1.49	39029.0092	44444
1084	3.740	0.895	0.606	0.722	0.479	11111	2.28	39031.7940	44444
1084	3.736	0.901	0.572	0.000	0.000	11100	2.37	39033.7844	44400
1084	3.741	0.881	0.590	0.000	0.000	11100	1.34	39033.9319	44400
1084	3.721	0.898	0.572	0.715	0.476	11111	2.21	39035.7866	44444
1084	3.737	0.872	0.602	0.729	0.468	11111	2.41	39036.7747	44444
1084	3.723	0.882	0.565	0.730	0.459	11111	2.02	39037.7920	44444
1084	3.727	0.903	0.530	0.707	0.465	11111	2.05	39038.7873	44444
1084	3.705	0.868	0.572	0.721	0.455	11111	2.33	39066.6961	44444
1084	3.733	0.887	0.555	0.726	0.467	11111	2.33	39068.6907	44444
1084	3.722	0.880	0.585	0.711	0.465	11111	2.15	39069.6968	44444
1084	3.713	0.868	0.576	0.740	0.446	11111	1.41	39084.8358	22222
1084	3.712	0.886	0.591	0.702	0.478	11111	1.37	39099.7809	44444
1087	4.281	-0.039	-0.594	0.071	-0.003	11111	1.08	38067.6332	44444
1087	4.267	-0.039	-0.547	0.121	-0.032	11111	1.08	38303.8716	12221
1087	4.277	-0.054	-0.563	0.109	-0.006	11111	1.04	38307.9178	44444
1088	4.286	-0.091	-0.369	-0.008	-0.104	11111	1.71	38307.9107	44444
1088	4.256	-0.137	-0.342	-0.008	-0.117	11111	1.75	38411.6633	44444
1088	4.286	-0.135	-0.348	0.007	-0.136	11111	1.83	38415.6738	44444
1101	4.279	0.582	0.074	0.480	0.307	11111	1.18	38310.9164	44444
1101	4.291	0.585	0.101	0.503	0.309	11111	1.31	38404.7268	44444
1101	4.282	0.556	0.064	0.491	0.336	11111	1.18	38416.6150	22222
1122	3.012	-0.104	-0.420			11000	1.08	38303.8785	12221
1122	0.000	0.000	0.000	0.090	-0.103	00001	1.07	38303.8844	12221
1122	3.066	-0.149	-0.572	0.060	-0.122	11111	1.04	38403.6662	44444
1122	3.009	-0.103	-0.512	-0.027	-0.110	11111	1.11	38404.7348	44444
1129	4.789	0.805	0.270	0.000	0.000	11100	1.25	38451.6209	44400
1129	4.796	0.816	0.258	0.000	0.000	11100	1.21	38452.5969	22200
1129	4.796	0.818	0.207	0.728	0.517	11111	1.21	38669.8695	44444
1131	3.845	0.055	-0.718	0.114	0.016	11111	1.00	38307.9322	44444
1131	0.000	0.000	0.000	0.139	0.009	00011	1.10	38404.7423	44444
1131	3.793	0.047	-0.783	0.000	0.000	11100	1.02	38439.6021	44400
1135	3.775	0.426	0.283	0.390	0.271	11111	1.02	38328.8751	44444
1135	3.734	0.426	0.318	0.000	0.000	11100	1.04	38439.6056	44400
1135	3.799	0.415	0.411	0.000	0.000	11100	1.21	38453.6424	44400
1136	3.524	0.928	0.671	0.713	0.478	11111	1.36	38328.8851	44444
1136	3.550	0.910	0.661	0.725	0.523	11111	1.49	38415.6940	44444
1136	3.536	0.920	0.624	0.733	0.489	11111	1.35	38416.6247	22222
1138	5.414	0.101	0.122	0.123	0.028	11111	1.42	38459.6355	22222
1138	5.456	0.086	0.119	0.099	0.029	11111	1.56	38480.6229	44444
1142	3.694	-0.108	-0.394	-0.008	-0.090	11111	1.02	38328.8958	44444
1142	3.600	-0.129	-0.391	-0.055	-0.134	11111	1.04	38424.6466	44444
1142	3.714	-0.134	-0.391	-0.004	-0.135	11111	1.77	38475.6420	44444
1145	4.310	-0.124	-0.425	-0.012	-0.085	11111	1.03	38328.9057	44444
1145	4.285	-0.120	-0.447	-0.043	-0.130	11111	1.05	38424.6569	44444
1145	4.260	-0.109	-0.493	0.000	0.000	11100	1.05	38439.6167	44400
1148	4.703	0.031	0.083	0.134	0.034	11111	1.31	38451.5933	44444
1148	4.622	0.030	0.060	0.108	0.034	11111	1.31	38669.8781	44444
1148	4.660	0.038	0.040	0.125	0.049	11111	1.43	38782.7523	22222
1148	4.656	0.005	0.105	0.134	0.052	11111	1.33	38784.6918	44444
1149	3.870	-0.064	-0.381	-0.003	-0.041	11111	1.04	38328.9140	44444
1149	3.883	-0.086	-0.378	0.025	-0.095	11111	1.07	38424.6649	44444
1149	3.835	-0.073	-0.410	0.000	0.000	11100	1.06	38439.6201	44400
1155	4.538	1.908	2.174	2.488	1.442	11101	1.22	38067.6406	44444
1155	0.	0.	0.	0.090	1.435	00001	1.23	38067.6468	44444
1155	4.416	1.860	2.154	1.692	1.373	11111	1.20	38343.8093	44444
1155	4.502	1.891	2.085	1.735	1.427	11111	1.20	38356.7735	44444
1155	4.470	1.881	2.097	1.690	1.430	11111	1.19	38357.7786	44444
1156	4.199	-0.070	-0.399	0.059	-0.011	11111	1.06	38328.9240	44444
1156	4.193	-0.060	-0.412	0.051	-0.067	11111	1.08	38424.6732	44444
1156	4.145	-0.062	-0.437	0.000	0.000	11100	1.07	38439.6236	44400
1162	4.402	1.628	2.008	1.327	1.076	11111	1.58	38387.7778	44444
1162	4.388	1.604	2.022	1.326	1.057	11111	1.57	38420.6857	44444
1162	4.467	1.635	2.005	1.376	1.008	11111	1.42	38430.6147	44444
1165	2.858	-0.078	-0.350	-0.003	-0.031	11111	1.08	38328.9343	44444
1165	2.826	-0.115	-0.393	0.011	-0.009	11111	1.04	38430.6299	44444
1165	2.914	-0.098	-0.358	0.001	-0.056	11111	1.57	38480.6126	44444
1173	4.199	0.416	0.014	0.361	0.227	11111	2.16	38387.7899	44444
1173	4.226	0.412	0.023	0.390	0.207	11111	1.90	38415.6823	44444
1173	4.256	0.429	0.006	0.424	0.228	11111	1.81	38425.6311	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1178	3.624	-0.095	-0.334	-0.	-0.049	11111	1.10	38328.9436	44444
1178	3.587	-0.101	-0.392	0.011	-0.011	11111	1.05	38430.6387	44444
1178	3.586	-0.081	-0.374	0.000	0.000	11100	1.07	38439.6271	44400
1203	2.865	0.095	-0.765	0.129	0.087	11111	1.04	37714.5909	22222
1203	2.876	0.094	-0.748	0.110	0.073	11111	1.10	37719.6047	22222
1203	2.842	0.118	-0.871	0.177	0.098	11111	1.00	38290.9695	44444
1204	5.053	-0.098	-0.168	0.054	-0.081	11111	1.20	38451.6040	44444
1204	5.023	-0.096	-0.159	0.000	0.000	11100	1.23	38459.5986	44400
1211	4.433	0.694	0.441	0.598	0.393	11111	1.23	38365.7799	44444
1211	4.432	0.672	0.386	0.548	0.427	11111	1.39	38420.6992	44444
1211	4.497	0.671	0.432	0.000	0.000	11100	1.33	38439.6340	44400
1213	4.627	-0.155	-0.464	-0.079	-0.126	11111	2.33	38387.8011	44444
1213	4.680	-0.111	-0.495	-0.039	-0.149	11111	1.89	38425.6413	44444
1213	4.631	-0.129	-0.482	0.000	0.000	11100	1.88	38440.5952	44400
1220	2.923	-0.156	-1.004	-0.021	-0.188	11111	1.01	38305.9360	44444
1220	2.834	-0.196	-1.056	-0.102	-0.133	11111	1.04	38430.6463	44444
1220	2.917	-0.184	-0.980	0.000	0.000	11100	1.04	38441.6130	44400
1228	4.044	0.004	-0.925	0.169	-0.012	11111	1.02	37693.5665	22222
1228	4.044	0.003	-0.926	0.124	-0.012	11111	1.01	37693.6215	22222
1228	4.049	0.004	-0.917	0.052	0.007	11100	1.11	37719.6124	22222
1228	4.080	0.017	-0.927	0.181	-0.003	11111	1.00	38305.9434	44444
1231	2.962	1.610	1.943	1.276	1.013	11111	1.44	38305.9515	44444
1231	2.943	1.603	1.948	1.280	0.980	11111	1.44	38356.7892	44444
1231	2.912	1.583	1.935	1.230	0.990	11111	1.44	38357.7904	44444
1239	3.467	-0.114	-0.629	-0.025	-0.106	11111	1.10	38300.9091	43433
1239	3.413	-0.120	-0.592	-0.050	-0.119	11111	1.15	38424.6832	44444
1239	3.356	-0.124	-0.661	-0.011	-0.052	11111	1.14	38430.6632	44444
1240	4.633	-0.156	-0.419	-0.025	-0.098	11111	2.38	38387.8123	44444
1240	4.695	-0.118	-0.420	0.032	-0.122	11111	1.88	38425.6502	44444
1240	4.648	-0.148	-0.387	0.000	0.000	11100	1.85	38440.5999	44400
1242	5.061	0.490	0.472	0.512	0.391	11111	1.16	38669.8891	44444
1242	5.086	0.513	0.496	0.521	0.395	11111	1.12	38674.8556	44444
1242	5.092	0.498	0.505	0.505	0.384	11111	1.13	38676.8911	44444
1251				0.098	-0.023	00011	1.29	38095.6051	44444
1251	3.883	0.043	0.041	0.071	0.011	11111	1.18	38300.9018	43433
1251	3.904	0.018	0.076	0.069	-0.022	11111	1.24	38397.7648	44444
1251	3.929	0.023	0.054	0.089	0.012	11111	1.12	38403.6870	44444
1256	4.332	1.108	0.951	0.769	0.494	11111	1.07	38067.6537	44444
1256	4.425	1.044	0.894	0.821	0.567	11111	1.04	38300.9165	43433
1256	4.335	1.061	0.996	0.781	0.529	11111	1.07	38383.7861	44444
1261	4.276	0.057	-0.067			11100	1.06	38062.6312	22211
1261				0.088	0.030	00011	1.06	38300.9246	43433
1261	4.295	0.009	-0.015	0.074	0.016	11111	1.05	38307.9492	44444
1261	4.294	-0.024	-0.015	0.084	0.015	11111	1.22	38400.7989	44444
1273	4.062	-0.090	-0.516	0.095	-0.022	11111	1.08	38067.6612	44444
1273	4.026	-0.025	-0.567	0.136	-0.040	11110	1.04	38300.9619	43433
1273	0.000	0.000	0.000	0.117	-0.008	00011	1.23	38400.8062	44444
1298	4.048	0.342	0.132			11100	1.32	38302.9271	22221
1298					0.163	00001	1.31	38302.9322	22221
1298	4.064	0.310	0.151	0.304	0.179	11111	1.48	38398.7733	44444
1298	4.027	0.342	0.146	0.000	0.000	11100	1.31	38440.6049	44400
1303	4.198	0.960	0.606	0.809	0.574	11111	1.04	38300.9702	43433
1303	4.144	0.935	0.629	0.777	0.543	11111	1.06	38430.6541	44444
1303	4.139	0.969	0.649	0.000	0.000	11100	1.13	38432.6895	44400
1303	4.131	0.928	0.673	0.000	0.000	11100	1.10	38438.6594	44400
1306	4.694	0.994	0.624	0.866	0.562	11111	1.36	38095.6737	44444
1306	4.749	0.991	0.617	0.807	0.582	11111	1.02	38300.9855	43433
1306	4.670	1.035	0.692	0.751	0.561	11111	1.01	38302.9461	22221
1309	5.269	0.366	-0.013	0.334	0.192	11111	1.16	38669.8992	44444
1309	5.302	0.341	0.006	0.374	0.180	11111	1.13	38670.9126	44444
1309	5.282	0.370	0.004	0.350	0.201	11111	1.27	38671.8621	44444
1311	4.834	0.827	0.537	0.646	0.461	11111	1.10	38302.9384	22221
1311	4.817	0.811	0.454	0.662	0.444	11111	1.20	38430.6822	44444
1311	4.867	0.784	0.521	0.000	0.000	11100	1.16	38432.6625	44400
1311	4.837	0.765	0.526	0.000	0.000	11100	1.18	38438.6543	44400
1318	4.829	1.178	1.156	0.822	0.577	11111	1.40	38337.8949	22222
1318	4.873	1.163	1.157	0.869	0.577	11111	1.37	38339.8517	44444
1320	4.288	-0.054	-0.480	0.018	-0.043	11111	1.24	38081.6477	22211
1320	4.308	-0.050	-0.533	0.073	-0.067	11111	1.09	38317.9279	44444
1324		0.055				01000	1.15	38081.6566	22211
1324	4.656	0.048	0.044	0.172	0.039	11111	1.17	38081.6633	22211
1324	4.631	0.034	0.040	0.159	0.061	11111	1.06	38300.9936	43433
1324	4.654	0.067	0.069	0.134	0.027	11111	1.05	38302.9541	22221
1325	4.439	0.824	0.430	0.656	0.463	11111	1.32	38317.9399	44444
1325	4.419	0.814	0.410	0.709	0.438	11111	1.42	38430.6712	44444
1325	4.449	0.787	0.476	0.000	0.000	11100	1.49	38438.6646	44400
1325	4.421	0.828	0.480	0.000	0.000	11100	1.37	38440.6282	44400
1327	5.272	0.815	0.486	0.646	0.418	11111	1.21	38669.9083	44444
1327	5.256	0.798	0.519	0.629	0.417	11111	1.22	38670.9000	44444
1327	5.303	0.823	0.480	0.656	0.429	11111	1.25	38671.8733	44444
1329	4.956	0.273	0.068	0.288	0.131	11111	1.06	38301.0116	43433
1329	4.895	0.230	0.097	0.000	0.000	11100	1.13	38438.6687	44400
1329	4.979	0.264	0.167	0.000	0.000	11100	1.20	38453.6471	44400

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1346	3.642	1.000	0.781	0.730	0.481	11111	1.05	38310.9419	44444
1346	3.641	0.974	0.810	0.723	0.481	11111	1.48	38482.6081	44444
1350	4.871	-0.025	-0.515	0.091	-0.045	11111	1.03	38302.9614	22221
1350	4.838	-0.024	-0.554	0.086	-0.049	11111	1.03	38305.9587	44444
1373	4.236	1.035	0.815	1.077	0.513	01101	1.04	38063.6437	11212
1373	3.755	1.022	0.852	0.749	0.484	11111	1.04	38302.9700	22221
1373	3.770	1.013	0.804	0.000	0.000	11100	1.17	38432.6937	44400
1380	4.817	0.153	0.141	0.175	0.068	11111	1.04	38310.9492	44444
1380	4.846	-0.200	0.389	0.000	0.000	10000	1.18	38432.6983	44400
1380	4.769	0.115	0.138	0.000	0.000	11100	1.15	38438.6737	44400
1380	4.821	0.181	0.100	0.157	0.056	11111	1.07	38676.8999	44444
1387	4.235	0.141	0.161	0.149	0.063	11111	1.02	38307.9569	44444
1387	4.225	0.108	0.179	0.000	0.000	11100	1.09	38459.6041	44400
1389	4.308	0.056	0.093	0.083	0.005	11111	1.04	38310.9552	44444
1389	4.227	0.010	0.107	0.000	0.000	11100	1.16	38438.6779	44400
1392	4.372	0.189	0.117	0.000	0.000	11100	1.17	38432.7048	44400
1392	4.207	0.211	0.202	0.000	0.000	11100	1.15	38438.6828	44400
1392	4.289	0.276	0.147	0.271	0.149	11111	1.02	38700.8961	44444
1392	4.274	0.261	0.158	0.288	0.140	11111	1.09	38705.7973	44444
1394	4.513	0.262	0.152	0.284	0.153	11111	1.06	38317.9520	44444
1394	4.531	0.223	0.154	0.000	0.000	11100	1.14	38459.6083	44400
1396	4.699	0.981	0.698	0.732	0.535	11111	1.05	38323.8955	44444
1396	0.000	0.965	0.000	0.000	0.000	01000	1.07	38441.6177	44400
1396	4.689	0.972	0.736	0.000	0.000	11100	1.09	38452.6045	22200
1396	5.636	0.027	0.721	1.621	0.512	11111	1.06	38676.9220	44444
1396	4.678	1.019	0.720	0.696	0.525	11111	1.06	38700.9048	44444
1409	3.603	1.008	0.826	0.714	0.432	11111	1.03	38060.6525	21200
1409	0.	0.952	0.	0.090	-0.040	01000	1.03	38074.5858	11111
1409	3.526	1.019	0.861	0.756	0.556	11111	1.18	38268.9702	21111
1409	3.545	1.007	0.897	0.692	0.560	11111	1.47	38269.9184	44443
1409	3.574	1.022	0.878	0.730	0.545	11111	1.14	38269.9818	44443
1409	3.551	1.023	0.886	0.703	0.526	11111	1.09	38270.9960	44443
1409	3.536	1.008	0.833	0.749	0.509	11111	1.03	38323.9048	44444
1409	3.490	1.031	0.897	0.703	0.483	11111	1.13	38337.9482	22222
1409	3.464	1.018	0.865	-0.030	0.000	11100	1.04	38391.7490	44444
1409	3.527	1.002	0.885	-0.023	0.000	11100	1.03	38392.7256	44444
1409	3.500	1.016	0.866	-0.023	0.000	11100	1.15	38392.8049	44444
1409	3.451	1.004	0.855	-0.023	0.000	11100	1.42	38392.8584	44444
1409	3.497	1.023	0.895	-0.023	0.000	11100	1.44	38392.8609	44444
1409	3.666	0.986	0.912	1.089	0.495	11101	1.64	38393.5626	33333
1409	3.606	0.980	0.852	0.000	0.000	11100	1.05	38393.6825	33333
1409	3.566	0.989	0.850	1.518	0.503	11101	1.05	38393.7553	33333
1411	3.860	0.913	0.	0.754	0.457	11011	1.16	38095.6145	44444
1411	3.852	0.946	0.661	0.726	0.496	11111	1.04	38323.9181	44444
1411	3.843	0.944	0.737	0.000	0.000	11100	1.09	38452.6105	22200
1412	0.	0.138	0.174	1.191	0.100	01101	1.07	38063.6591	11212
1412	3.401	0.187	0.164	0.177	0.106	11111	1.05	38323.9265	44444
1412	3.392	0.171	0.163	0.000	0.000	11100	1.18	38451.6451	44400
1412	3.464	0.183	0.117	0.000	0.000	11100	1.42	38456.6775	44400
1412	3.409	0.157	0.147	0.210	0.087	11111	1.50	38482.6167	44444
1427	4.777	0.154	0.150	0.000	0.000	11100	1.12	38451.6283	44400
1427	4.792	0.177	0.139	0.000	0.000	11100	1.13	38452.6298	22200
1437	4.893	1.302	1.406	0.915	0.711	11111	1.26	38066.6754	22211
1437	4.897	1.327	1.465	0.932	0.661	11111	1.18	38327.9014	22222
1437	4.928	1.305	1.416	0.000	0.000	11100	1.30	38459.6118	44400
1444	4.642	0.267	0.034	0.231	0.159	11111	1.12	38066.6829	22211
1444	4.657	0.258	0.105	0.252	0.126	11111	1.05	38327.9101	22222
1444	4.645	0.231	0.086	0.249	0.097	11111	1.06	38682.9035	44444
1453	4.535	0.986	0.713	0.786	0.514	11111	2.18	38425.6602	44444
1453	4.490	0.972	0.728	0.723	0.533	11111	2.43	38427.6938	44444
1453	4.528	0.983	0.662	0.711	0.502	11111	3.65	38474.6218	44444
1453	4.473	0.976	0.722	0.758	0.488	11111	3.90	38475.6247	44444
1454	4.277	1.230	0.778	0.984	0.695	11111	1.01	38310.9609	44444
1454	4.261	1.202	0.806	0.975	0.681	11111	1.14	38459.6425	22222
1454	4.258	1.370	0.863	0.886	0.666	11111	1.37	38481.6335	33433
1457	0.880	1.544	1.957	1.290	0.934	11111	1.09	38067.6692	44444
1457	0.859	1.567	1.964	1.187	0.955	11111	1.04	38306.9538	44444
1457	0.836	1.531	1.931	1.221	0.920	11111	1.05	38682.9101	44444
1458	4.277	0.187	0.110	0.192	0.101	11111	1.34	38083.6815	44444
1458	4.250	0.167	0.133	0.184	0.094	11111	1.08	38327.9191	22222
1463	3.911	-0.205	-0.880	-0.098	-0.178	11111	1.48	38082.6691	44444
1463	3.935	-0.208	-0.890	-0.101	-0.197	11111	1.25	38327.9284	22222
1473	4.266	0.141	0.149	0.143	0.057	11111	1.08	38327.9379	22222
1473	4.272	0.104	0.140	0.163	0.058	11111	1.54	38459.6847	22222
1473	4.268	0.111	0.124	0.123	0.020	11111	1.62	38475.6490	44444
1479	4.694	0.118	0.163	0.180	0.056	11111	1.30	38456.6666	44444
1479	4.723	0.139	0.144	0.000	0.000	11100	1.13	38459.6160	44400
1481	3.833	1.095	0.998	0.806	0.552	11111	1.57	38397.7715	44444
1481	3.870	1.105	1.014	0.000	0.000	11100	1.50	38440.6319	44400
1481	3.905	1.069	1.071	0.000	0.000	11100	1.55	38453.6124	44400
1496	4.291	1.598	1.896	1.494	1.399	11111	1.82	38427.7004	44444
1496	4.361	1.617	1.723	0.000	0.000	11100	1.68	38440.6360	44400
1496	4.352	1.617	1.724	0.000	0.000	11100	1.84	38452.6362	22200
1497	0.	-0.139	-0.513	0.090	-0.040	01100	1.04	38087.6074	22211
1497	4.298	-0.148	-0.596	0.000	0.000	11100	1.13	38451.6528	44400
1497	4.277	-0.122	-0.611	0.000	0.000	11100	1.11	38452.6433	22200

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1520	4.005	-0.161	-0.600	-0.054	-0.129	11111	1.74	38456.6826	44444
1520	4.038	-0.158	-0.605	0.000	0.000	11100	1.36	38459.6201	44400
1542	4.284	0.083	-0.845	0.075	0.024	11111	1.20	38062.6414	22211
1542	4.273	0.005	-0.900	0.133	-0.003	11111	1.25	38427.7142	44444
1542	4.328	-0.006	-0.889	0.128	-0.049	11111	1.51	38475.6778	44444
1543	3.172	0.451	-0.021	0.459	0.388	11111	1.09	37563.9959	22222
1543	3.171	0.457	-0.028	0.445	0.200	11111	1.09	37565.9738	22222
1543	3.184	0.456	-0.028	0.418	0.263	11111	1.15	37668.7539	22222
1543	3.191	0.440	-0.025	0.366	0.277	11111	1.21	37670.7686	22222
1543	3.198	0.471	0.008	0.378	0.071	11111	1.11	38060.6654	21200
1543	3.167	0.490	0.039	0.420	0.224	11111	1.28	38083.6704	44444
1543	3.200	0.442	-0.001	0.438	0.280	11111	1.34	38268.9774	21111
1543	3.166	0.415	-0.018	0.396	0.281	11111	2.01	38269.9106	44443
1543	3.217	0.483	-0.011	0.420	0.285	11111	1.27	38269.9889	44443
1543	3.193	0.472	-0.005	0.396	0.273	11111	1.21	38271.0022	44443
1543	3.192	0.481	-0.035	0.428	0.278	11111	1.13	38301.0217	43433
1544	4.344	0.019	0.021	0.000	0.000	11100	1.30	38451.6725	44400
1544	4.349	0.005	0.035	0.000	0.000	11100	1.21	38452.6503	22200
1552	3.690	-0.158	-0.800	0.485	-0.834	11100	1.14	38060.6791	21200
1552	3.664	-0.137	-0.822	0.090	-0.040	11100	1.26	38089.6463	22222
1552	3.637	-0.130	-0.818	-0.026	-0.145	11111	1.15	38299.0316	22222
1552	3.668	-0.149	-0.832	0.000	0.000	11100	1.28	38453.6549	44400
1552	3.670	-0.180	-0.763	-0.083	-0.148	11111	2.17	38786.8297	44444
1552	3.701	-0.168	-0.809	-0.051	-0.167	11111	1.22	38787.5898	44444
1552	3.692	-0.152	-0.818	-0.073	-0.161	11111	1.59	38789.7814	44444
1560	4.391	0.204	0.171	0.333	0.199	11111	1.32	38076.6487	22211
1560	4.413	0.247	0.187	0.000	0.000	11100	1.39	38459.6238	44400
1567	3.706	-0.194	-0.822	0.000	0.000	11100	1.41	38451.6783	44400
1567	3.716	-0.188	-0.822	0.000	0.000	11100	1.30	38452.6549	22200
1567	3.774	-0.200	-0.816	-0.052	-0.173	11111	1.89	38481.6453	33433
1568	4.463	-0.013	-0.082	0.161	-0.010	11111	1.28	38095.6827	44444
1568	4.495	-0.005	-0.003	0.084	-0.009	11111	1.07	38307.9698	44444
1568	4.455	-0.035	-0.028	0.047	-0.013	11111	1.08	38682.9297	44444
1570	4.645	0.091	0.064	0.108	0.043	11111	1.09	38324.9437	44444
1570	4.653	0.076	0.076	0.000	0.000	11100	1.22	38452.6597	22200
1570	4.701	0.081	0.133	0.000	0.000	11100	1.25	38453.6626	44400
1577	2.666	1.533	1.736	1.068	0.821	11111	1.00	38305.9790	44444
1577	2.671	1.556	1.763	0.000	0.000	11100	1.08	38432.7089	44400
1580	4.052	1.148	1.096	0.867	0.623	11111	1.08	38324.9615	44444
1580	4.062	1.141	1.122	0.901	0.618	11111	1.51	38459.6954	22222
1580	4.083	1.148	1.092	0.894	0.625	11111	1.90	38480.6708	44444
1592	4.898	0.066	0.007	0.014	-0.040	11110	1.08	38083.6619	44444
1592	4.957	0.063	0.038	0.084	0.005	11111	1.08	38303.9127	12221
1592	4.995	0.014	-0.014	0.000	0.000	11100	1.07	38459.6286	44400
1601	4.477	1.428	1.556	1.009	0.721	11111	1.24	38303.9293	12221
1601	4.448	1.413	1.446	0.000	0.000	11100	1.32	38432.7132	44400
1601	4.537	1.357	1.681	0.000	0.000	11100	1.20	38453.6173	44400
1603	3.997	0.941				11000	1.13	38062.6500	22211
1603	4.067	0.928	0.651	0.726	0.463	11111	1.15	38303.9463	12221
1603	4.020	0.911	0.615	0.000	0.000	11100	1.20	38432.7176	44400
1603	4.062	0.880	0.767	0.000	0.000	11100	1.19	38453.6514	44400
1605	2.917	0.554	0.292	0.492	0.433	11111	1.05	38303.9383	12221
1605	3.005	0.551	0.309	0.514	0.433	11111	1.26	38366.6882	44444
1605	3.003	0.553	0.326	0.530	0.453	11111	1.08	38366.7503	44444
1605	2.998	0.547	0.329	0.543	0.442	11111	1.03	38366.7942	44444
1605	3.028	0.526	0.330	0.560	0.461	11111	1.03	38366.8401	44444
1605	2.985	0.565	0.322	0.524	0.448	11111	1.09	38366.8901	44444
1605	2.968	0.567	0.323	0.501	0.445	11111	1.25	38366.9421	44444
1605	2.980	0.552	0.326	0.494	0.458	11111	1.41	38366.9731	44444
1605	3.049	0.524	0.301	0.537	0.439	11111	1.76	38367.6170	44444
1605	3.018	0.530	0.323	8.681	0.000	11110	1.36	38367.6665	44444
1605	0.000	0.000	0.000	0.000	0.439	00001	1.33	38367.6713	44444
1605	3.017	0.514	0.337	0.542	0.433	11111	1.15	38367.7156	44444
1605	3.010	0.509	0.352	0.540	0.427	11111	1.04	38367.7750	44444
1605	2.987	0.537	0.353	0.505	0.430	11111	1.07	38367.8771	44444
1605	3.006	0.522	0.383	0.505	0.439	11111	1.02	38368.8147	44444
1605	2.973	0.537	0.329	0.501	0.473	11111	1.02	38369.8285	44444
1605	2.999	0.541	0.329	0.529	0.453	11111	1.02	38379.7849	44444
1611	4.775	0.258	0.143	0.000	0.000	11100	1.70	38432.7222	44400
1611	4.780	0.272	0.179	0.000	0.000	11100	1.44	38440.6405	44400
1612	3.736	1.241	0.384	1.132	0.892	11111	1.02	38299.9823	44422
1612	3.733	1.256	0.341	1.091	0.843	11111	1.01	38307.9773	44444
1612	3.759	1.248	0.307	1.139	0.875	11111	1.05	38356.8963	44444
1612	3.744	1.248	0.299	1.094	0.886	11111	1.03	38357.8764	44444
1612	3.741	1.233	0.426	1.108	0.860	11111	1.05	38361.8833	44444
1612	0.000	0.000	0.000	1.119	0.824	00011	1.02	38365.7919	44444
1612	3.734	1.235	0.612	1.129	0.823	11111	1.05	38365.8722	44444
1612	3.783	1.284	0.677	1.110	0.827	11111	1.31	38366.6808	44444
1612	3.770	1.287	0.702	1.130	0.845	11111	1.10	38366.7379	44444
1612	3.785	1.295	0.717	1.150	0.854	11111	1.02	38366.7871	44444
1612	3.776	1.312	0.757	1.164	0.857	11111	1.01	38366.8326	44444
1612	3.767	1.327	0.778	1.161	0.840	11111	1.07	38366.8823	44444
1612	3.752	1.347	0.834	1.127	0.841	11111	1.71	38366.9330	44444
1612	3.745	1.374	0.875	1.098	0.844	11111	1.46	38366.9809	44444
1612	3.887	1.518	1.618	1.227	0.873	11111	1.93	38367.6075	44444
1612	3.846	1.545	1.674	1.219	0.858	11111	1.41	38367.6599	44444
1612	3.827	1.562	1.717	1.208	0.856	11111	1.17	38367.7089	44444
1612	3.843	1.554	1.770	1.226	0.867	11111	1.04	38367.7668	44444
1612	3.799	1.599	1.841	1.159	0.877	11111	1.05	38367.8695	44444
1612	3.426	1.067	1.101	0.868	0.655	11111	1.12	38368.7261	44444
1612	3.886	1.615	1.877	1.240	0.887	11111	1.01	38368.8014	44444
1612	3.869	1.618	1.832	1.228	0.911	11111	1.01	38369.8138	44444
1612	3.880	1.621	1.843	1.259	0.890	11111	1.01	38370.7909	44444
1612	3.853	1.670	1.732	1.173	0.907	11111	1.02	38371.8289	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1612	3.860	1.629	1.823	1.172	0.916	11111	1.03	38377.8202	44444
1612	3.837	1.635	1.856	1.197	0.900	11111	1.06	38378.8433	44444
1612	3.843	1.638	1.797	1.219	0.902	11111	1.01	38379.7960	44444
1612	3.828	1.636	1.784	1.185	0.877	11111	1.66	38380.9655	44444
1612	3.867	1.641	1.825	1.212	0.870	11111	1.28	38382.9058	22222
1612	3.818	1.650	1.809	1.193	0.895	11111	1.08	38387.8294	44444
1612	3.867	1.599	1.729	1.125	0.856	11111	1.02	38388.7793	44444
1612	3.860	1.598	1.777	1.195	0.902	11111	1.11	38391.6646	44444
1612	3.844	1.629	1.789	1.231	0.862	11111	1.04	38397.7786	44444
1612	3.966	1.610	1.745	1.316	0.882	11111	1.37	38403.5680	44444
1612	3.931	1.607	1.726	1.276	0.876	11111	1.12	38403.6290	44444
1612	3.936	1.620	1.739	1.287	0.873	11111	1.03	38403.6768	44444
1612	3.921	1.627	1.787	1.281	0.880	11111	1.01	38403.7121	44444
1612	3.893	1.628	1.837	1.254	0.872	11111	1.04	38403.7628	44444
1612	3.899	1.628	1.768	1.258	0.883	11111	1.14	38403.8119	44444
1612	3.891	1.611	1.780	1.238	0.896	11111	1.34	38403.8608	44444
1612	3.898	1.610	1.786	1.215	0.921	11111	2.04	38403.9319	44444
1612	3.902	1.634	1.800	1.231	0.869	11111	1.42	38404.5582	44444
1612	3.907	1.638	1.774	6.141	0.861	11111	1.28	38404.5827	44444
1612	3.906	1.651	1.760	1.438	0.847	11111	1.11	38404.6281	44444
1612	3.904	1.649	1.812	1.251	0.875	11111	1.04	38404.6711	44444
1612	3.899	1.633	1.823	1.253	0.864	11111	1.01	38404.7140	44444
1612	3.883	1.656	1.765	1.238	0.868	11111	1.03	38404.7503	44444
1612	3.887	1.646	1.779	1.229	0.873	11111	1.08	38404.7789	44444
1612	3.886	1.646	1.811	1.222	0.886	11111	1.32	38404.8538	44444
1612	3.874	1.616	1.780	1.227	0.865	11111	1.86	38404.9167	44444
1612	3.904	1.234	0.479	1.162	0.872	11111	1.36	38406.5622	43333
1612	3.884	1.236	0.488	1.133	0.869	11111	1.21	38406.5929	43333
1612	3.892	1.215	0.432	1.157	0.854	11111	1.04	38406.6665	43333
1612	3.889	1.196	0.468	1.158	0.864	11111	1.03	38406.7444	43333
1612	3.877	1.205	0.478	1.135	0.879	11111	1.16	38406.8114	43333
1612	3.759	1.197	0.370	1.161	0.849	11111	1.02	38408.7231	44444
1612	3.771	1.219	0.415	1.112	0.888	11111	1.10	38410.7766	44444
1612	3.745	1.194	0.380	1.114	0.847	11111	1.04	38419.7230	44444
1617	4.772	-0.193	-0.758	-0.085	-0.170	11111	1.86	38456.6927	44444
1617	4.841	-0.190	-0.740	0.000	0.000	11100	1.44	38459.6326	44400
1620	4.608	0.195	-0.762	0.120	0.107	11011	1.02	38062.6596	22211
1620	4.659	0.150	0.131	0.193	0.089	11111	1.02	38305.9873	44444
1620	4.667	0.156	0.173	0.180	0.081	11111	1.02	38314.9677	22222
1621	4.953	-0.044	-0.143	0.046	-0.064	11111	1.67	38425.6803	44444
1621	4.901	-0.071	-0.135	-0.015	-0.061	11111	1.78	38427.7065	44444
1621	4.891	-0.045	-0.137	0.000	0.000	11100	1.68	38440.6444	44400
1637	5.005	0.358	-0.057	0.252	0.174	11111	1.08	38067.6775	44444
1637	5.003	0.342	0.008	0.342	0.213	11111	1.06	38299.9995	44422
1637	4.998	0.327	0.005	0.347	0.198	11111	1.06	38325.9512	22222
1638	4.675	-0.049	-0.116	0.027	0.008	11111	1.09	38066.6904	22211
1638	4.668	-0.049	-0.101	0.028	-0.035	11111	1.05	38310.9670	44444
1638	4.691	-0.062	-0.083	0.058	-0.036	11111	1.06	38314.9842	22222
1641	3.169	-0.149	-0.646	-0.028	-0.172	11111	1.02	38302.0166	12221
1641	3.177	-0.149	-0.634	-0.054	-0.182	11111	1.03	38303.9566	12221
1641	3.184	-0.161	-0.640	-0.076	-0.159	11111	1.02	38325.9629	22222
1641	3.215	-0.220	-0.650	-0.040	-0.202	11111	1.01	38368.8080	44444
1641	3.135	-0.158	-0.690	-0.086	-0.155	11111	1.01	38369.8203	44444
1641	3.209	-0.186	-0.724	-0.018	-0.191	11111	1.32	38403.5783	44444
1641	3.236	-0.203	-0.715	0.006	-0.194	11111	1.10	38403.6391	44444
1641	3.179	-0.165	-0.702	-0.043	-0.174	11111	1.01	38403.7204	44444
1641	3.181	-0.177	-0.676	-0.042	-0.174	11111	1.05	38403.7709	44444
1641	3.166	-0.191	-0.643	-0.067	-0.148	11111	2.15	38403.9404	44444
1641	3.197	-0.147	-0.673	-0.070	-0.175	11111	1.38	38404.5657	44444
1641	3.187	-0.155	-0.665	-0.058	-0.162	11111	1.03	38404.7571	44444
1641	3.233	-0.192	-0.665	-0.026	-0.172	11111	1.32	38406.5707	43333
1641	3.190	-0.191	-0.664	-0.039	-0.195	11111	1.03	38406.6775	43333
1641	3.179	-0.167	-0.678	-0.082	-0.170	11111	1.18	38406.8192	43333
1641	3.188	-0.209	-0.652	-0.075	-0.135	11111	1.11	38410.7835	44444
1654	3.140	1.471	1.760	1.088	0.809	11111	1.77	38329.9505	44444
1654	3.206	1.460	1.764	1.161	0.794	11111	1.77	38415.7126	44444
1654	3.238	1.462	1.788	1.058	0.832	11111	1.85	38469.5874	44444
1657	5.164	-0.059	-0.181	0.014	-0.101	11111	1.26	38453.5947	44444
1666	2.800	0.118	0.100	-0.023	-0.010	11111	1.33	38060.7087	21200
1666	2.776	0.144	0.064	0.100	0.140	11111	3.73	38103.7313	44444
1666	2.753	0.127	0.136	0.131	0.079	11111	1.30	38329.9626	44444
1666	2.783	0.111	0.105	0.155	0.063	11111	1.26	38682.9455	44444
1676	4.814	0.337	0.200	0.318	0.200	11111	1.06	38314.9977	22222
1676	4.830	0.312	0.159	0.302	0.177	11111	1.08	38385.8170	44444
1676	4.807	0.309	0.194	0.000	0.000	11100	1.16	38452.6644	22200
1679	4.231	-0.201	-0.897	-0.070	-0.202	11111	1.42	38329.9776	44444
1679	4.280	-0.203	-0.903	-0.107	-0.211	11111	1.43	38385.8279	44444
1679	4.304	-0.187	-0.902	-0.052	-0.197	11111	1.39	38425.7070	44444
1689	4.890	0.185	0.057	0.191	0.122	11111	1.08	38076.6937	22211
1689	4.861	0.182	0.122	0.207	0.083	11111	1.01	38310.9740	44444
1689	4.880	0.167	0.125	0.148	0.092	11111	1.59	38509.6110	44444
1690	6.680	-0.072	-0.331	0.004	-0.080	11111	1.67	38789.7925	44444
1690	6.668	-0.072	-0.347	0.022	-0.150	11111	1.18	38791.6518	44444
1696	4.418	-0.056	-0.376	-0.022	-0.078	11111	1.52	38081.6835	22211
1696	4.446	-0.104	-0.420	0.029	-0.120	11111	1.62	38082.6810	44444
1696	4.446	-0.119	-0.406	-0.051	-0.099	11111	1.56	38385.8407	44444
1698	4.421	1.203	1.085	0.865	0.619	11111	1.15	38062.6707	22211
1698	4.453	1.200	1.164	0.833	0.589	11111	1.15	38381.7910	44444
1698	4.448	1.181	1.163	0.854	0.588	11111	1.19	38424.7074	44444
1698	4.461	1.177	1.156	0.000	0.000	11100	1.32	38452.6743	22200
1702	3.275	-0.098	-0.388	0.000	0.000	11100	1.54	38440.6487	44400
1702	3.302	-0.116	-0.379	0.000	0.000	11100	1.77	38452.6694	22200

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1705	4.319	-0.058	-0.369	0.090	-0.040	11100	1.44	38062.6808	22211
1705	4.368	-0.117	-0.322	0.000	0.000	11100	1.58	38459.6372	44400
1705	4.401	-0.132	-0.333	0.001	-0.094	11111	1.78	38483.6004	22222
1708	0.053	0.796	0.495	0.629	0.423	11111	1.16	38301.9052	12221
1708	0.058	0.813	0.461	0.581	0.438	11111	1.03	38307.9855	44444
1713	0.153	-0.027	-0.630	0.019	-0.027	11111	1.33	38308.0078	44444
1713	0.133	-0.054	-0.644	0.008	-0.039	11111	1.44	38315.0310	22222
1713	0.132	-0.030	-0.623	0.008	-0.016	11111	1.40	38315.9134	44444
1713	0.181	-0.014	-0.629	0.021	-0.029	11111	1.32	38316.9547	22221
1724	6.414	-0.018	0.022	0.047	-0.013	11111	1.86	38789.8140	44444
1724	6.418	-0.012	0.022	0.057	-0.047	11111	1.35	38791.5787	44444
1726	4.556	1.237	1.323	1.057	0.692	11111	1.12	38083.6937	44444
1726	4.544	1.272	1.238	0.971	0.737	11111	1.00	38305.9954	44444
1726	4.519	1.287	1.261	0.924	0.697	11111	1.00	38307.9922	44444
1729	4.732	0.607	0.132	0.541	0.318	11111	1.03	38067.6891	44444
1729	0.000	0.000	0.000	0.539	0.351	00011	1.01	38306.0044	44444
1729	4.695	0.597	0.136	0.501	0.324	11111	1.04	38419.7330	44444
1729	4.693	0.611	0.146	0.509	0.299	11111	1.41	38475.6857	44444
1729	4.700	0.596	0.158	0.517	0.326	11111	1.46	38480.6797	44444
1735					-0.089	00001	1.30	38063.6718	11212
1735	3.572	-0.125	-0.443	-0.042	-0.097	11111	1.29	38323.9533	44444
1735	3.585	-0.116	-0.466	0.000	0.000	11100	1.33	38440.6611	44400
1735	3.625	-0.125	-0.465	-0.050	-0.131	11111	1.66	38474.6369	44444
1748	6.353	-0.109	-0.742	-0.305	0.179	11100	1.30	38786.6201	44444
1748	6.352	-0.114	-0.743	0.017	-0.156	11111	1.25	38787.6336	44444
1748	6.346	-0.094	-0.756	0.005	-0.123	11111	1.40	38789.5878	44444
1756	4.285	-0.244	-1.018	0.000	0.000	11100	1.48	38440.6649	44400
1756	4.305	-0.258	-1.002	0.000	0.000	11100	1.71	38452.6797	22200
1761	6.680	-0.082	-0.404	0.049	-0.055	11111	1.16	39068.9381	44444
1761	6.625	-0.086	-0.503	0.032	-0.025	11111	1.14	39084.8493	22222
1761	6.591	-0.104	-0.482	0.002	-0.062	11111	1.43	39129.6366	44444
1762	4.719	-0.065	-0.092	0.045	-0.075	11111	1.71	38415.7217	44444
1762	4.696	-0.039	-0.102	0.000	0.000	11100	1.76	38440.6688	44400
1763	5.776	-0.142	-0.863	-0.025	-0.117	11111	1.13	38797.6099	22222
1763	5.797	-0.127	-0.872	0.026	-0.148	11111	1.10	38803.6284	44444
1763	5.825	-0.132	-0.892	0.019	-0.123	11111	1.10	38804.6497	22222
1764	5.683	-0.110	-0.661	-0.043	-0.153	11111	1.23	38786.6372	44444
1764	5.691	-0.116	-0.651	-0.014	-0.136	11111	1.26	38787.6226	44444
1764	5.700	-0.111	-0.653	-0.006	-0.156	11111	1.29	38789.6071	44444
1765	5.697	-0.182	0.	-0.092	-0.040	01010	1.19	38063.6840	11212
1765	4.711	-0.166	-0.803	-0.065	-0.170	11111	1.19	38323.9720	44444
1765	4.726	-0.158	-0.791	0.000	0.000	11100	1.40	38452.6866	22200
1765	4.746	-0.155	-0.794	0.000	0.000	11100	1.29	38453.6590	44400
1765	4.766	-0.164	-0.792	0.000	0.000	11100	1.22	38456.6273	44400
1765	4.732	-0.154	-0.794	-0.065	-0.180	11111	1.25	38786.6297	44444
1765	4.757	-0.168	-0.782	-0.051	-0.182	11111	1.29	38787.6125	44444
1765	4.749	-0.163	-0.794	-0.031	-0.172	11111	1.26	38789.6155	44444
1770	4.954	-0.155	6.309	-0.090	-0.166	11011	1.17	38420.7198	44444
1770	5.038	-0.154	-0.887	-0.039	-0.155	11111	1.19	38425.7163	44444
1770	5.021	-0.151	-0.847	-0.057	-0.180	11111	1.70	38481.6535	33433
1770	5.000	-0.143	-0.882	-0.034	-0.186	11111	1.16	38790.6997	22222
1770	4.992	-0.135	-0.863	-0.052	-0.185	11111	1.44	38791.7748	44444
1781	5.683	-0.202	-0.903	-0.122	-0.232	11111	1.26	38791.6135	44444
1781	5.703	-0.217	-0.893	-0.034	-0.240	11111	1.39	38792.5777	44444
1781	5.745	-0.233	-0.859	-0.059	-0.192	11111	1.55	38803.7486	44444
1784	4.096	0.952	0.685	0.705	0.505	11111	1.40	38420.7416	44444
1784	4.141	0.962	0.719	0.000	0.000	11100	1.36	38440.6729	44400
1786	6.335	-0.164	-0.606	-0.064	-0.164	11111	1.69	38790.8047	22222
1786	6.306	-0.129	-0.652	-0.067	-0.164	11111	1.16	38791.6902	44444
1786	6.331	-0.154	-0.635	-0.025	-0.151	11111	1.26	39129.6786	44444
1788	3.295	-0.171	-0.948	0.000	0.000	11100	1.34	38439.7014	44400
1788	3.335	-0.177	-0.906	0.000	0.000	11100	1.47	38452.6917	22200
1788	3.320	-0.164	-0.927	-0.083	-0.194	11111	1.36	38791.7428	44444
1788	3.342	-0.143	-0.986	-0.082	-0.214	11111	1.81	38795.7900	44444
1789	0.	0.	-0.952	0.090	-0.213	00101	1.18	38063.6933	11212
1789	5.017	-0.201	-0.908	-0.057	-0.192	11111	1.23	38425.7254	44444
1789	4.944	-0.200	-0.927	0.000	0.000	11100	1.29	38439.7056	44400
1789	4.921	-0.217	-0.921	-0.071	-0.227	11111	1.17	38682.9526	44444
1789	4.993	-0.204	-0.896	-0.096	-0.235	11111	1.83	38790.8146	22222
1789	4.931	-0.193	-0.919	-0.110	-0.219	11111	1.16	38791.6700	44444
1790	1.635	-0.219	-0.867	-0.085	-0.085	11110	1.30	37569.9029	22222
1790	1.651	-0.229	-0.882	-0.086	-0.249	11111	1.33	38080.7127	44444
1790	1.634	-0.178	-0.985	-0.115	-0.122	11111	2.02	38290.8780	44444
1790	1.618	-0.192	-0.844	-0.091	-0.216	11111	1.11	38304.0015	12221
1791	1.650	-0.130	-0.490			11100	1.11	38096.6545	32211
1791	1.672	-0.106	-0.512	0.000	0.000	11100	1.00	38433.4548	44400
1791	1.632	-0.131	-0.493	0.000	0.000	11100	1.92	38432.8455	44400
1791	1.653	-0.125	-0.456	0.000	0.000	11100	1.10	38453.6761	44400
1803	6.149	-0.181	-0.755	-0.084	-0.156	11111	1.28	38791.6064	44444
1803	6.174	-0.191	-0.752	-0.011	-0.211	11111	1.35	38792.5862	44444
1803	6.158	-0.168	-0.752	-0.073	-0.181	11111	1.22	39129.7027	44444
1806	6.234	-0.045	-0.230	0.022	-0.047	11111	1.56	38705.8107	44444
1806	6.228	-0.050	-0.239	0.002	-0.061	11111	1.55	38708.8028	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1810	4.880	-0.130	-0.768	-0.050	-0.145	11111	1.07	38328.9934	44444
1810	4.932	-0.142	-0.788	-0.030	-0.147	11111	1.08	38425.7334	44444
1810	4.858	-0.137	-0.755	-0.078	-0.164	11111	1.66	38480.6875	44444
1811	4.566	-0.200	-0.926	-0.117	-0.209	11111	1.18	38063.7016	11212
1811	4.640	-0.205	-0.929	-0.080	-0.215	11111	1.31	38425.7551	44444
1811	4.617	-0.238	-0.923	-0.088	-0.250	11111	1.25	38464.6332	44444
1811	4.568	-0.178	-0.965	-0.113	-0.212	11111	1.17	38790.7093	22222
1811	4.582	-0.193	-0.936	-0.117	-0.225	11111	1.49	38791.7832	44444
1820	6.369	-0.146	-0.760	-0.096	-0.196	11111	1.30	38728.7721	44444
1820	6.433	-0.197	-0.731	-0.031	-0.165	11111	1.55	38729.9569	44444
1829	2.820	0.822	0.492	0.000	0.000	11100	1.75	38440.6770	44400
1829	2.813	0.815	0.601	0.000	0.000	11100	1.69	38453.6208	44400
1830	5.789	1.196	0.979	0.852	0.591	11111	1.28	38371.8641	44444
1830	5.778	1.102	0.999	0.805	0.554	11111	1.25	38388.8011	44444
1833	5.820	-0.232	-0.832	-0.058	-0.173	11111	1.18	38727.8776	22222
1833	5.740	-0.176	-0.851	-0.095	-0.220	11111	1.49	38728.7369	44444
1833	5.786	-0.207	-0.856	-0.053	-0.197	11111	1.27	38756.7014	22222
1833	5.773	-0.188	-0.838	-0.052	-0.204	11111	1.38	38763.6581	44444
1839	4.184	-0.119	-0.525	-0.061	-0.148	11111	1.15	38303.9688	12221
1839	4.259	-0.130	-0.569	-0.037	-0.155	11111	1.30	38425.7653	44444
1839	4.157	-0.131	-0.585	0.000	0.000	11100	1.23	38439.7095	44400
1839	4.173	-0.130	-0.569	-0.111	-0.122	11111	1.14	38720.9026	44444
1839	4.238	-0.110	-0.600	0.084	-0.249	11111	1.50	38723.9805	44444
1839	4.213	-0.132	-0.571	-0.052	-0.158	11111	1.12	38786.6952	44444
1839	4.217	-0.140	-0.549	-0.043	-0.145	11111	1.27	39129.6685	44444
1840	6.328	-0.206	-0.848	-0.054	-0.188	11111	1.35	38705.9478	44444
1840	6.338	-0.204	-0.820	-0.114	-0.127	11111	1.42	38708.9642	44444
1840	6.306	-0.161	-0.839	-0.062	-0.208	11111	1.33	38763.7837	44444
1842	5.456	-0.162	-0.828	-0.052	-0.185	11111	1.21	38720.9204	44444
1842	5.465	-0.169	-0.810	0.049	-0.304	11111	1.43	38723.9649	44444
1842	5.457	-0.174	-0.837	-0.089	-0.192	11111	1.15	38786.7041	44444
1843	4.765	0.340	-0.447	0.382	0.255	11111	1.12	38083.7022	44444
1843	4.774	0.355	-0.437	0.365	0.279	11111	1.02	38303.9763	12221
1845	4.409	2.107	2.229	1.805	1.514	11111	1.04	38303.9842	12221
1845	4.346	2.037	2.173	1.713	1.422	11111	1.03	38308.0147	44444
1845	4.293	2.047	2.230	1.754	1.410	11111	1.11	38343.8357	44444
1848	6.213	-0.182	-0.754	-0.048	-0.169	11111	1.30	38705.8866	44444
1848	6.199	-0.171	-0.730	-0.063	-0.182	11111	1.29	38708.8862	44444
1852	2.191	-0.198	-1.033	-0.085	-0.224	11111	1.19	38303.9935	12221
1852	2.226	-0.210	-1.068	-0.094	-0.209	11111	1.22	38404.7748	44444
1852	2.160	-0.221	-1.095	0.000	0.000	11100	1.32	38439.7131	44400
1852	2.229	-0.210	-1.035	-0.093	-0.204	11111	1.62	38728.9674	44444
1852	2.249	-0.231	-1.046	-0.056	-0.215	11111	1.37	38729.9296	44444
1855	4.609	-0.238	-1.100	-0.097	-0.242	11111	1.28	37668.7151	22222
1855	4.617	-0.251	-1.082	-0.094	-0.262	11111	1.27	37670.7183	22222
1855	4.638	-0.256	-1.063	-0.115	-0.252	11111	1.46	37673.6378	22222
1855	4.618	-0.254	-1.080	-0.049	-0.268	11111	1.27	37673.7202	22222
1855	4.637	-0.252	-1.057	-0.032	-0.265	11111	1.38	37673.7787	22222
1855	4.656	-0.254	-1.083	-0.056	-0.265	11111	1.28	37692.6838	22222
1855	4.606	-0.273	-1.043	-0.128	-0.255	11111	1.84	37692.7892	22222
1855	4.615	-0.270	-1.073	-0.079	-0.265	11111	1.40	37693.5968	22222
1855	4.615	-0.268	-1.093	-0.073	-0.262	11111	1.27	37714.6112	22222
1855	4.618	-0.273	-1.080	-0.055	-0.261	11111	1.31	37719.6294	22222
1855	4.611	-0.258	-1.076	-0.080	-0.274	11111	1.28	37720.6052	22222
1855	4.611	-0.252	-1.071	-0.117	-0.271	11111	1.47	38103.6334	44444
1855	4.636	-0.280	-1.033	-0.108	-0.281	11111	1.45	38112.6042	44444
1855	4.629	-0.254	-1.078	-0.143	-0.250	11111	1.45	38113.6018	44444
1855	4.628	-0.254	-1.038	-0.127	-0.271	11111	1.31	38307.0237	44444
1855	4.584	-0.278	-1.056	-0.106	-0.270	11111	2.60	38307.8402	44444
1855	4.639	-0.244	-1.056	-0.117	-0.238	11111	1.30	38307.9996	44444
1855	4.627	-0.265	-1.080	-0.113	-0.267	11111	1.55	38314.8923	22222
1855	4.584	-0.233	-1.054	-0.157	-0.225	11111	1.31	38315.9952	44444
1855	4.669	-0.254	-1.071	-0.051	-0.270	11111	2.47	38360.7003	44444
1855	4.611	-0.278	0.000	-0.102	-0.258	11011	1.30	38360.8594	44444
1855	4.595	-0.278	-1.054	-0.109	-0.259	11111	2.74	38361.0184	44444
1855	4.614	-0.248	-1.083	-0.141	-0.260	11111	1.31	38361.8707	44444
1855	4.619	-0.259	-0.974	-0.132	-0.261	11111	1.71	38365.7330	44444
1855	4.602	-0.246	-1.115	-0.130	-0.251	11111	1.34	38365.8037	44444
1855	4.602	-0.255	-1.094	-0.115	-0.271	11111	1.30	38365.8330	44444
1855	4.592	-0.263	-1.063	-0.122	-0.248	11111	1.33	38366.8037	44444
1855	4.647	-0.254	-1.073	-0.084	-0.262	11111	2.05	38367.7013	44444
1855	4.608	-0.263	-1.077	-0.123	-0.258	11111	1.31	38367.8512	44444
1855	4.614	-0.259	-1.051	-0.144	-0.258	11111	2.11	38367.9734	44444
1855	4.613	-0.265	-1.060	-0.139	-0.268	11111	2.89	38368.6653	44444
1855	4.636	-0.261	-1.075	-0.120	-0.280	11111	1.30	38368.8229	44444
1855	4.615	-0.250	-1.068	-0.135	-0.252	11111	2.72	38370.6646	44444
1855	4.637	-0.267	-1.065	-0.103	-0.267	11111	1.31	38370.8065	44444
1855	4.656	-0.278	-1.081	-0.088	-0.252	11111	1.33	38371.7920	44444
1855	4.615	-0.274	-1.066	-0.118	-0.269	11111	2.51	38376.9670	44444
1855	4.641	-0.258	-1.096	-0.116	-0.274	11111	1.30	38377.8082	44444
1855	4.626	-0.271	-1.032	-0.114	-0.259	11111	2.11	38377.9464	44444
1855	4.626	-0.224	-1.042	-0.096	-0.285	11111	2.18	38378.6638	44444
1855	4.619	-0.254	-1.066	-0.134	-0.265	11111	1.32	38378.8321	44444
1855	4.609	-0.301	-1.084	-0.135	-0.257	11111	2.71	38378.9487	44444
1855	4.629	-0.263	-1.056	-0.110	-0.262	11111	2.05	38379.6683	44444
1855	4.632	-0.261	-1.067	-0.106	-0.251	11111	1.30	38379.8076	44444
1855	4.677	-0.222	-1.018	-0.098	-0.252	11111	1.72	38380.6952	44444
1855	4.642	-0.250	-1.048	-0.104	-0.266	11111	1.35	38380.7591	44444
1855	4.621	-0.270	-1.092	-0.102	-0.264	11111	1.37	38380.8493	44444
1855	4.602	-0.290	-1.061	-0.151	-0.261	11111	2.40	38380.9516	44444
1855	4.613	-0.260	-1.057	-0.129	-0.261	11111	1.83	38381.6790	44444
1855	4.615	-0.264	-1.064	-0.131	-0.267	11111	1.30	38381.8040	44444
1855	4.661	-0.241	-1.078	-0.095	-0.263	11111	2.10	38383.6549	44444
1855	4.610	-0.267	-1.077	-0.105	-0.258	11111	1.30	38383.7963	44444
1855	4.622	-0.273	-1.053	-0.125	-0.258	11111	2.57	38383.9500	44444
1855	0.000	-0.266	0.000	0.000	0.000	01000	1.30	38385.7866	44444
1855	4.629	-0.271	-1.087	-0.138	-0.276	11111	1.30	38385.7950	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1855	4.612	-0.258	-1.159	-0.134	-0.274	11111	1.30	38388.7903	44444
1855	4.627	-0.258	-1.138	-0.115	-0.266	11111	1.45	38388.8489	44444
1855	4.598	-0.271	-1.012	-0.171	-0.250	11111	2.39	38388.9297	44444
1855	4.659	-0.253	-1.055	-0.091	-0.289	11111	1.84	38391.6504	44444
1855	4.608	-0.256	-1.056	-0.156	-0.279	11111	1.54	38392.6815	44444
1855	4.582	-0.255	-1.056	-0.172	-0.278	11111	1.30	38392.7761	44444
1855	4.613	-0.279	-1.051	-0.114	-0.251	11111	2.70	38392.9296	44444
1855	4.652	-0.278	-1.064	-0.117	-0.268	11111	2.07	38397.6182	44444
1855	4.609	-0.262	-1.069	-0.120	-0.263	11111	1.30	38397.7587	44444
1855	4.586	-0.255	-1.058	-0.147	-0.233	11111	2.15	38397.8937	44444
1855	4.643	-0.235	-1.040	-0.105	-0.265	11111	2.65	38398.5902	44444
1855	4.624	-0.250	-1.106	-0.023	0.000	11100	1.33	38398.7815	44444
1855	4.635	-0.268	-1.039	-0.086	-0.270	11111	2.16	38400.6048	44444
1855	4.616	-0.254	-1.072	-0.093	-0.262	11111	1.33	38400.7791	44444
1855	4.631	-0.262	-1.061	-0.111	-0.262	11111	2.21	38403.5940	44444
1855	4.635	-0.260	-1.084	-0.079	-0.264	11111	1.30	38403.7496	44444
1855	4.641	-0.258	-1.059	-0.107	-0.270	11111	2.15	38404.5946	44444
1855	4.635	-0.289	-1.032	-0.099	-0.264	11111	2.40	38406.5779	43333
1855	4.626	-0.276	-1.044	-0.106	-0.263	11111	1.30	38406.7348	43333
1855	4.623	-0.254	-1.053	-0.141	-0.258	11111	1.52	38408.8066	44444
1855	4.625	-0.277	-1.075	-0.093	-0.297	11111	1.30	38415.7039	44444
1855	4.632	-0.259	-1.070	-0.090	-0.264	11111	1.36	38416.6565	22222
1855	4.608	-0.276	-1.076	-0.157	-0.285	11111	1.31	38419.7136	44444
1855	4.614	-0.267	-1.039	-0.154	-0.268	11111	2.20	38419.8361	44444
1855	4.718	-0.266	-1.050	-0.106	-0.280	11111	1.78	38420.5762	44444
1855	4.580	-0.279	-1.058	-0.168	-0.284	11111	1.31	38420.7099	44444
1855	4.595	-0.261	-1.061	-0.157	-0.268	11111	2.26	38420.8366	44444
1855	4.630	-0.260	-1.070	-0.110	-0.260	11111	1.39	38421.6324	22222
1855	4.603	-0.272	-1.065	-0.147	-0.291	11111	1.31	38424.6941	44444
1855	4.600	-0.287	-1.050	-0.152	-0.266	11111	2.59	38424.8388	44444
1855	4.655	-0.254	-1.071	-0.110	-0.267	11111	1.30	38425.6899	44444
1855	4.620	-0.275	-1.056	-0.107	-0.266	11111	2.59	38425.8359	44444
1855	4.601	-0.256	-1.075	-0.137	-0.274	11111	1.31	38427.6874	44444
1855	4.633	-0.267	-1.075	-0.132	-0.276	11111	1.30	38431.6538	44444
1855	4.588	-0.269	-1.055	-0.154	-0.260	11111	2.39	38431.8122	44444
1855	4.698	-0.239	-1.057	-0.130	-0.251	11111	1.38	38432.6050	44444
1855	4.614	-0.259	-1.065	-0.134	-0.280	11111	1.32	38432.6848	44444
1855	4.634	-0.259	-1.075	-0.145	-0.288	11111	1.38	38438.6938	44444
1855	4.634	-0.279	-1.037	-0.187	0.000	11110	2.49	38438.7965	44444
1855	4.654	-0.268	-1.077	-0.094	-0.278	11111	1.31	38439.6168	44444
1855	4.615	-0.278	-1.066	-0.108	-0.275	11111	1.36	38439.6838	44444
1855	4.612	-0.258	-1.060	-0.147	-0.250	11111	2.77	38439.8032	44444
1855	4.645	-0.271	-1.065	-0.123	-0.274	11111	1.30	38440.6357	44444
1855	4.621	-0.257	-1.076	-0.140	-0.266	11111	1.37	38440.6866	44444
1855	4.604	-0.273	-1.052	-0.158	-0.262	11111	2.39	38440.7877	44444
1855	4.654	-0.261	-1.069	-0.086	-0.254	11111	1.30	38441.6428	44444
1855	4.627	-0.260	-1.078	-0.085	-0.275	11111	1.40	38441.6926	44444
1855	4.588	-0.255	-1.059	-0.156	-0.247	11111	2.48	38441.7884	44444
1855	4.636	-0.256	-1.068	-0.122	-0.307	11111	1.31	38443.6439	44444
1855	4.617	-0.273	-1.062	-0.134	-0.277	11111	1.56	38443.7177	44444
1855	4.592	-0.277	-1.052	-0.165	-0.255	11111	2.49	38443.7832	44444
1855	4.649	-0.262	-1.075	-0.115	-0.275	11111	1.30	38444.6353	44444
1855	4.611	-0.272	-1.055	-0.120	-0.278	11111	1.48	38444.7022	44444
1855	4.650	-0.268	-1.062	-0.141	-0.271	11111	1.34	38446.6580	44444
1855	4.627	-0.255	-1.071	-0.142	-0.283	11111	1.48	38446.6968	44444
1855	4.587	-0.304	-1.079	-0.144	-0.257	11111	2.73	38446.7832	44444
1855	4.621	-0.272	-1.086	-0.135	-0.275	11111	1.35	38448.6562	44444
1855	4.609	-0.271	-1.046	-0.167	-0.243	11111	2.50	38448.7698	44444
1855	4.611	-0.282	-0.994	-0.168	-0.254	11111	2.43	38449.7646	44444
1855	4.637	-0.279	-1.077	-0.126	-0.280	11111	1.32	38450.6366	44444
1855	4.624	-0.260	-1.078	-0.115	-0.279	11111	1.53	38450.6935	44444
1855	4.630	-0.260	-1.070	0.000	0.000	11100	2.30	38450.7567	44400
1855	4.589	-0.276	-1.048	-0.155	-0.259	11111	2.52	38450.7654	44444
1855	4.634	-0.280	-1.080	-0.111	-0.275	11111	1.33	38451.6384	44444
1855	4.616	-0.263	-1.083	0.000	0.000	11100	1.41	38451.6658	44400
1855	4.615	-0.271	-1.051	-0.143	-0.261	11111	2.77	38451.7706	44444
1855	4.689	-0.256	-1.082	-0.121	-0.273	11111	1.30	38452.5955	44444
1855	4.654	-0.295	-1.078	0.000	0.000	11100	1.31	38452.6240	22200
1855	4.652	-0.270	-1.049	-0.121	-0.271	11111	1.40	38452.6628	44444
1855	4.608	-0.293	-1.050	-0.127	-0.256	11111	2.58	38452.7620	44444
1855	4.638	-0.279	-1.075	0.000	0.000	11100	1.30	38453.6083	44400
1855	4.628	-0.261	-1.071	-0.137	-0.288	11111	1.43	38453.6661	44444
1855	0.000	-0.287	-1.041	0.000	0.000	01100	2.19	38453.7433	44400
1855	0.000	-0.243	-1.097	0.000	0.000	01100	2.36	38453.7510	44400
1855	4.618	-0.284	-1.043	-0.143	-0.252	11111	2.69	38453.7628	44444
1855	4.626	-0.288	-1.060	0.000	0.000	11100	1.30	38456.5950	44400
1855	4.604	-0.259	-1.077	0.000	0.000	11100	1.55	38459.6714	44400
1855	4.632	-0.260	-1.070	0.000	0.000	11100	2.78	38460.7463	44400
1855	0.000	0.000	0.000	0.000	-0.285	00001	1.65	38464.6719	00004
1855	4.612	-0.272	-1.053	-0.158	-0.249	11111	2.16	38469.6979	44444
1855	4.624	-0.258	-1.067	0.000	0.000	11100	2.34	38473.6955	44400
1855	4.630	-0.260	-1.070	-0.110	-0.260	11111	2.89	38473.7139	44444
1855	4.613	-0.265	-1.074	0.000	0.000	11100	1.35	38474.5869	44400
1855	4.641	-0.267	-1.058	-0.138	-0.283	11111	1.64	38474.6436	44444
1855	4.578	-0.259	-1.076	-0.146	-0.255	11111	2.70	38474.7057	44444
1855	4.592	-0.279	-1.074	0.000	0.000	11100	1.41	38475.6012	44400
1855	4.617	-0.257	-1.052	0.000	0.000	11100	2.15	38475.6808	44400
1855	4.638	-0.253	-1.064	-0.138	-0.271	11111	1.68	38480.6320	44444
1855	4.613	-0.300	-1.043	-0.127	-0.262	11111	2.93	38480.6957	44444
1855	4.627	-0.285	-1.071	-0.134	-0.269	11111	2.20	38481.6670	33433
1855	4.645	-0.294	-1.036	-0.116	-0.297	11111	1.55	38483.6074	22222
1855	4.609	-0.250	-1.034	-0.115	-0.244	11111	2.40	38637.9443	44444
1855	4.626	-0.238	-1.081	-0.107	-0.257	11111	2.36	38655.8962	44444
1855	4.614	-0.262	-1.074	-0.113	-0.260	11111	1.33	38659.0035	22222
1855	4.636	-0.235	-1.060	-0.116	-0.251	11111	1.40	38669.9512	44444
1855	4.624	-0.247	-1.060	-0.101	-0.259	11111	1.41	38670.9449	44444
1855	4.597	-0.258	-1.072	-0.111	-0.260	11111	1.64	38671.9026	44444
1855	4.613	-0.244	-1.067	-0.105	-0.264	11111	1.62	38673.8996	44444
1855	4.686	-0.239	-1.022	-0.050	-0.255	11111	1.79	38674.8798	44444
1855	4.631	-0.279	-1.030	-0.089	-0.251	11111	1.66	38675.8903	44444
1855	4.619	-0.251	-1.094	-0.094	-0.251	11111	1.31	38676.0104	44444
1855	4.593	-0.284	-1.068	-0.112	-0.258	11111	1.93	38676.8626	44444
1855	4.680	-0.240	-1.054	-0.072	-0.252	11111	1.30	38676.9786	44444
1855	4.643	-0.253	-1.043	-0.090	-0.256	11111	1.32	38678.0114	22222
1855	4.613	-0.270	-1.077	-0.117	-0.267	11111	2.50	38678.8283	44444
1855	4.635	-0.234	-1.082	-0.066	-0.253	11111	1.30	38679.9730	22222
1855	4.614	-0.276	-1.057	-0.117	-0.256	11111	2.03	38680.8451	44444
1855	4.629	-0.251	-1.064	-0.116	-0.245	11111	2.20	38681.8331	44444
1855	4.614	-0.265	-1.059	-0.126	-0.253	11111	2.34	38682.8237	44444
1855	4.605	-0.253	-1.096	-0.102	-0.266	11111	1.30	38682.9669	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1855	4.602	-0.255	-1.054	-0.136	-0.256	11111	1.36	38699.8819	22222
1855	4.613	-0.281	-1.047	-0.106	-0.241	11111	2.48	38700.7688	44444
1855	4.627	-0.267	-1.070	0.000	0.000	11100	2.56	38703.7576	44400
1855	4.651	-0.240	-1.062	0.000	0.000	11100	1.31	38703.8927	44400
1855	4.633	-0.261	-1.055	-0.129	-0.249	11111	1.95	38705.7822	44444
1855	4.626	-0.274	-1.042	-0.126	-0.264	11111	1.92	38708.7763	44444
1855	4.648	-0.226	-1.115	-0.066	-0.255	11111	1.31	38708.9181	44444
1855	4.648	-0.275	-1.066	-0.099	-0.258	11111	1.91	38711.7689	44444
1855	4.588	-0.237	-1.076	-0.127	-0.277	11111	1.36	38711.9377	44444
1855	4.637	-0.267	-1.065	-0.104	-0.259	11111	1.98	38712.7608	44444
1855	4.589	-0.246	-1.054	-0.109	-0.255	11111	1.31	38712.9091	44444
1855	4.625	-0.275	-1.075	-0.109	-0.266	11111	2.03	38719.7386	44444
1855	4.592	-0.225	-1.094	-0.113	-0.267	11111	1.30	38719.8836	44444
1855	4.623	-0.284	-1.071	-0.095	-0.265	11111	2.09	38720.7321	44444
1855	4.617	-0.299	-1.040	-0.132	-0.251	11111	1.35	38721.8266	22222
1855	4.628	-0.300	-1.042	-0.084	-0.275	11111	1.98	38722.7340	22222
1855	4.637	-0.246	-1.100	-0.114	-0.245	11111	1.31	38722.8453	22222
1855	4.632	-0.261	-1.093	-0.113	-0.248	11111	1.31	38722.8453	22222
1855	4.616	-0.243	-1.067	-0.119	-0.251	11111	1.31	38723.8419	44444
1855	4.661	-0.300	-1.077	-0.085	-0.284	11111	2.41	38724.0127	44444
1855	4.613	-0.272	-1.074	-0.098	-0.264	11111	1.32	38725.8811	22222
1855	4.597	-0.270	-1.066	-0.106	-0.256	11111	1.64	38727.7499	22222
1855	4.639	-0.263	-1.071	-0.110	-0.248	11111	1.34	38727.8855	22222
1855	4.643	-0.257	-1.075	0.000	0.000	11100	2.10	38728.7098	44400
1855	4.601	-0.260	-1.048	-0.147	-0.268	11111	1.92	38728.7215	44444
1855	4.609	-0.263	-1.073	-0.131	-0.266	11111	1.30	38728.8397	44444
1855	4.614	-0.260	-1.065	0.000	0.000	11100	1.30	38728.8510	44400
1855	4.642	-0.260	-1.044	-0.077	-0.264	11111	2.26	38728.9927	44444
1855	4.613	-0.265	-1.071	0.000	0.000	11100	1.31	38729.8257	22200
1855	4.630	-0.251	-1.078	-0.104	-0.263	11111	1.30	38729.8416	44444
1855	4.624	-0.260	-1.088	0.000	0.000	11100	1.32	38729.8681	22200
1855	4.540	-0.257	-1.059	-0.190	-0.230	11111	2.15	38729.9843	44444
1855	4.627	-0.246	-1.094	0.000	0.000	11100	1.30	38738.8174	22200
1855	4.581	-0.222	-1.096	0.000	0.000	11100	1.38	38740.7622	22200
1855	4.614	-0.241	-1.063	0.000	0.000	11100	1.32	38740.8442	22200
1855	4.634	-0.245	-1.057	0.000	0.000	11100	2.03	38741.6785	44400
1855	4.652	-0.323	-1.009	0.000	0.000	11100	1.31	38741.8313	44400
1855	4.760	-0.303	-1.087	0.000	0.000	11100	1.62	38742.7113	22200
1855	4.575	-0.309	-1.065	0.000	0.000	11100	1.35	38742.7679	22200
1855	4.559	-0.262	-1.092	0.000	0.000	11100	1.30	38742.8083	22200
1855	4.616	-0.245	-1.061	0.000	0.000	11100	1.41	38747.7349	22200
1855	4.601	-0.272	-1.062	-0.130	-0.265	11111	1.71	38756.6632	22222
1855	4.659	-0.249	-1.077	-0.090	-0.255	11111	1.33	38756.7406	22222
1855	4.625	-0.260	-1.051	-0.115	-0.262	11111	2.16	38763.6109	44444
1855	4.598	-0.256	-1.079	0.000	0.000	11100	1.31	38763.7722	22200
1855	4.602	-0.238	-1.075	-0.120	-0.261	11111	1.44	38763.8203	44444
1855	4.630	-0.268	-1.048	-0.112	-0.263	11111	2.02	38764.6165	44444
1855	4.624	-0.235	-1.098	0.000	0.000	11100	1.31	38771.7521	44400
1855	4.627	-0.248	-1.064	-0.131	-0.256	11111	1.50	38773.8042	44444
1855	4.630	-0.260	-1.070	-0.110	-0.260	11111	1.32	38782.7283	22222
1855	4.627	-0.261	-1.065	-0.110	-0.260	11111	1.98	38783.8268	44444
1855	4.623	-0.259	-1.078	-0.131	-0.260	11111	1.51	38786.6073	44444
1855	4.619	-0.247	-1.079	-0.106	-0.274	11111	1.30	38786.6828	44444
1855	4.647	-0.282	-1.050	-0.097	-0.265	11111	2.39	38786.8399	44444
1855	4.615	-0.255	-1.058	-0.152	-1.170	11110	1.32	38787.7104	44444
1855	4.628	-0.290	-1.075	-0.137	-0.271	11111	2.43	38787.8387	44444
1855	4.637	-0.259	-1.078	-0.110	-0.271	11111	1.33	38789.6508	44444
1855	4.636	-0.283	-1.050	-0.094	-0.259	11111	2.28	38789.8271	44444
1855	4.600	-0.236	-1.093	-0.146	-0.281	11111	1.30	38790.6893	22222
1855	4.614	-0.277	-1.061	-0.114	-0.265	11111	1.71	38791.5671	44444
1855	4.628	-0.258	-1.059	-0.132	-0.266	11111	2.25	38791.8200	44444
1855	4.646	-0.250	-1.085	-0.106	-0.244	11111	1.70	38792.5660	44444
1855	4.633	-0.265	-1.058	0.000	0.000	11100	1.34	38792.6356	22200
1855	4.618	-0.263	-1.083	-0.120	-0.269	11111	1.31	38792.6888	44444
1855	4.626	-0.267	-1.052	-0.108	-0.268	11111	2.16	38792.8130	44444
1855	4.648	-0.299	-1.054	-0.088	-0.276	11111	1.56	38795.5757	44444
1855	4.601	-0.247	-1.042	-0.135	-0.255	11111	2.10	38795.8012	44444
1855	4.607	-0.265	-1.058	-0.077	-0.263	11111	1.53	38797.5740	22222
1855	4.672	-0.301	-1.084	-0.035	-0.282	11111	1.36	38803.5983	44444
1855	4.588	-0.217	-1.074	-0.159	-0.258	11111	2.13	38803.7811	44444
1855	4.613	-0.265	-1.079	-0.088	-0.260	11111	1.42	38804.5759	22222
1855	4.580	-0.233	-1.078	-0.177	-0.272	11111	1.41	38805.5767	44444
1855	4.641	-0.280	-1.031	-0.113	-0.242	11111	2.23	38805.7808	44444
1855	4.631	-0.268	-1.066	0.000	0.000	11100	1.31	38809.6089	44400
1855	4.619	-0.274	-1.066	0.000	0.000	11100	1.30	38809.6192	44400
1855	4.620	-0.267	-1.072	0.000	0.000	11100	1.30	38810.6265	44400
1855	4.616	-0.274	-1.065	0.000	0.000	11100	1.33	38810.6534	44400
1855	4.612	-0.265	-1.059	0.000	0.000	11100	1.31	38811.6396	44400
1855	4.597	-0.259	-1.084	0.000	0.000	11100	1.30	38812.6091	22200
1855	4.594	-0.250	-1.074	-0.158	-0.266	11111	1.30	38818.5945	22222
1855	4.625	-0.265	-1.067	-0.110	-0.251	11111	1.31	38820.6189	22222
1855	4.692	-0.253	-1.060	-0.136	-0.256	11111	1.30	38822.5850	44444
1855	4.619	-0.251	-1.066	-0.117	-0.263	11111	2.88	38822.7579	44444
1855	4.627	-0.248	-1.076	-0.118	-0.274	11111	1.30	38823.5885	44444
1855	4.612	-0.277	-1.043	-0.120	-0.264	11111	3.01	38823.7584	44444
1855	4.620	-0.269	-1.059	-0.128	-0.272	11111	1.40	38824.6428	44444
1855	4.613	-0.256	-1.056	-0.124	-0.259	11111	2.19	38824.7270	44444
1855	4.647	-0.270	-1.046	-0.107	-0.271	11111	1.30	38825.5922	44444
1855	4.614	-0.262	-1.049	-0.131	-0.258	11111	2.45	38825.7358	44444
1855	4.653	-0.257	-1.061	-0.108	-0.275	11111	1.31	38826.5984	44444
1855	4.616	-0.261	-1.040	-0.131	-0.252	11111	2.55	38826.7368	44444
1855	4.603	-0.278	-1.047	0.000	0.000	11100	1.45	38833.6312	22200
1855	4.622	-0.267	-1.075	-0.136	-0.283	11111	1.44	38845.5957	44444
1855	4.616	-0.259	-1.038	-0.145	-0.242	11111	2.51	38845.6836	44444
1855	4.629	-0.259	-1.068	-0.130	-0.289	11111	1.45	38846.5946	44444
1855	4.627	-0.263	-1.055	-0.120	-0.255	11111	2.71	38846.6876	44444
1855	4.627	-0.274	-1.055	-0.135	-0.283	11111	1.49	38849.5942	44444
1855	4.630	-0.260	-1.043	-0.131	-0.242	11111	2.74	38849.6802	44444
1855	4.607	-0.246	-1.053	-0.148	-0.257	11111	2.11	39004.9528	44444
1855	4.617	-0.243	-1.067	-0.125	-0.255	11111	1.39	39025.9786	44444
1855	4.625	-0.243	-1.072	0.000	0.000	11100	1.37	39026.9822	44400
1855	4.615	-0.250	-1.072	-0.096	-0.255	11111	1.30	39029.0155	44444
1855	4.628	-0.275	-1.033	0.000	0.000	11100	2.32	39032.8659	44400
1855	4.593	-0.257	-1.056	-0.139	-0.236	11111	1.95	39032.8866	44444
1855	4.604	-0.262	-1.056	-0.065	-0.233	11111	1.58	39032.9217	44444
1855	4.579	-0.248	-1.071	-0.165	-0.225	11111	1.32	39032.9873	44444
1855	4.641	-0.258	-1.065	0.000	0.000	11100	2.87	39033.8444	44400
1855	4.611	-0.270	-1.041	-0.126	-0.248	11111	1.69	39033.9066	44444
1855	4.621	-0.247	-1.069	-0.123	-0.248	11111	1.30	39034.0146	44444
1855	4.630	-0.253	-1.066	0.000	0.000	11100	1.30	39034.0196	44400

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1855	4.626	-0.257	-1.056	-0.111	-0.246	11111	2.00	39034.8779	44444
1855	4.595	-0.239	-1.069	-0.137	-0.250	11111	1.30	39035.0078	44444
1855	4.625	-0.262	-1.071	-0.104	-0.249	11111	1.97	39035.8772	44444
1855	4.609	-0.257	-1.047	-0.130	-0.247	11111	1.30	39036.0069	44444
1855	4.642	-0.255	-1.092	-0.093	-0.260	11111	2.55	39036.8459	44444
1855	4.621	-0.248	-1.069	-0.127	-0.256	11111	1.30	39036.9976	44444
1855	4.623	-0.260	-1.076	-0.103	-0.268	11111	1.31	39038.0165	44444
1855	4.639	-0.258	-1.042	-0.094	-0.263	11111	2.48	39038.8432	44444
1855	4.631	-0.263	-1.052	-0.115	-0.263	11111	2.44	39041.8365	44444
1855	4.635	-0.252	-1.085	-0.095	-0.252	11111	1.30	39042.0031	44444
1855	4.635	-0.263	-1.006	-0.134	-0.270	11111	2.18	39042.8452	44444
1855	4.632	-0.242	-1.082	-0.098	-0.268	11111	1.30	39042.9825	44444
1855	4.644	-0.260	-1.041	-0.098	-0.266	11111	2.33	39045.8303	44444
1855	4.610	-0.251	-1.075	-0.113	-0.269	11111	1.34	39045.9436	44444
1855	4.633	-0.271	-1.044	-0.111	-0.260	11111	1.94	39055.8241	44444
1855	4.605	-0.248	-1.083	-0.114	-0.262	11111	1.30	39055.9531	44444
1855	4.621	-0.246	-1.076	-0.111	-0.251	11111	1.66	39056.8468	44444
1855	4.616	-0.254	-1.064	-0.131	-0.254	11111	1.32	39056.9221	44444
1855	4.621	-0.231	-1.088	-0.131	-0.252	11111	1.40	39057.0069	44444
1855	4.624	-0.264	-1.038	-0.125	-0.253	11111	2.01	39057.8140	44444
1855	4.610	-0.239	-1.077	-0.139	-0.257	11111	1.30	39057.9419	44444
1855	4.630	-0.269	-1.055	-0.122	-0.258	11111	1.46	39058.0182	44444
1855	4.618	-0.255	-1.058	-0.130	-0.234	11111	2.19	39058.8012	44444
1855	4.609	-0.274	-1.055	-0.132	-0.253	11111	1.47	39058.8703	44444
1855	4.618	-0.283	-1.042	-0.148	-0.263	11111	1.37	39058.9932	44444
1855	4.609	-0.266	-1.059	-0.106	-0.274	11111	1.74	39059.8298	22222
1855	4.625	-0.264	-1.056	-0.113	-0.235	11111	1.46	39060.0119	22222
1855	4.617	-0.254	-1.052	-0.118	-0.244	11111	1.70	39060.8316	44444
1855	4.630	-0.279	-1.044	-0.111	-0.236	11111	1.53	39061.0218	44444
1855	4.620	-0.261	-1.035	-0.135	-0.237	11111	1.80	39061.8190	44444
1855	4.626	-0.262	-1.062	-0.105	-0.252	11111	1.56	39062.0247	44444
1855	4.619	-0.280	-1.036	-0.122	-0.236	11111	1.81	39062.8155	44444
1855	4.618	-0.254	-1.062	-0.120	-0.244	11111	1.50	39063.0122	44444
1855	4.635	-0.254	-1.054	-0.110	-0.240	11111	1.74	39063.8191	44444
1855	4.608	-0.294	-1.055	-0.144	-0.248	11111	1.54	39064.0160	44444
1855	4.615	-0.253	-1.049	-0.136	-0.249	11111	1.84	39064.8071	44444
1855	4.602	-0.274	-1.060	-0.135	-0.240	11111	1.44	39064.9948	44444
1855	4.577	-0.254	-1.039	-0.117	-0.238	11111	1.96	39065.7954	44444
1855	4.744	-0.246	-1.015	-0.107	-0.244	11111	1.44	39065.9928	44444
1855	4.628	-0.259	-1.023	-0.148	-0.246	11111	2.25	39066.7765	44444
1855	4.630	-0.267	-1.078	-0.122	-0.245	11111	1.44	39066.9894	44444
1855	4.627	-0.261	-1.052	-0.101	-0.256	11111	2.09	39068.7791	44444
1855	4.588	-0.252	-1.074	-0.153	-0.251	11111	1.31	39096.8543	44444
1855	4.618	-0.271	-1.033	-0.125	-0.268	11111	2.20	39098.6913	44444
1855	4.628	-0.250	-1.077	-0.113	-0.253	11111	1.30	39098.8429	44444
1855	4.619	-0.242	-1.079	-0.122	-0.251	11111	1.44	39098.9030	44444
1855	4.618	-0.273	-1.057	-0.124	-0.251	11111	2.53	39099.6747	44444
1855	4.626	-0.270	-1.060	-0.109	-0.249	11111	2.35	39100.6789	44444
1855	4.641	-0.273	-1.042	-0.114	-0.262	11111	1.88	39128.6298	44444
1855	4.624	-0.273	-1.076	-0.119	-0.259	11111	1.36	39128.7961	44444
1855	4.612	-0.238	-1.078	-0.122	-0.252	11111	2.07	39128.8876	44444
1855	4.623	-0.264	-1.058	-0.116	-0.253	11111	1.90	39129.6255	44444
1855	4.618	-0.257	-1.072	-0.116	-0.251	11111	1.30	39129.7376	44444
1861	5.344	-0.188	-0.934	-0.010	-0.187	11111	1.20	37593.9075	22222
1861	5.347	-0.208	-0.924	-0.037	-0.167	11111	3.51	37594.7400	22222
1861	5.343	-0.175	-0.932	-0.050	-0.180	11111	1.27	37594.8761	22222
1861	5.350	-0.180	-0.923	-0.078	-0.168	11111	1.32	37595.8573	22222
1861	5.351	-0.186	-0.943	0.090	-0.040	11100	1.21	37597.9580	22222
1861	5.347	-0.174	-0.932	-0.051	-0.202	11111	1.49	38103.6587	44444
1861	5.356	-0.177	-0.919	-0.036	-0.211	11111	1.44	38112.6255	44444
1861	5.359	-0.222	-0.918	-0.051	-0.174	11111	1.43	38113.6225	44444
1861	5.335	-0.172	-0.944	-0.076	-0.189	11111	1.26	38728.8931	44444
1861	5.336	-0.185	-0.924	-0.062	-0.190	11111	1.21	38729.8500	44444
1863	6.529	-0.096	-0.632	-0.013	-0.113	11111	1.28	38728.9015	44444
1863	6.539	-0.098	-0.660	0.005	-0.115	11111	1.21	38729.8581	44444
1865	2.577	0.181	0.336	0.135	0.240	11111	2.19	38456.7032	44444
1865	2.570	0.159	0.245	0.276	0.203	11111	2.46	38459.7095	22222
1865	2.569	0.198	0.276	0.253	0.179	11111	1.77	38464.6413	44444
1868	5.333	-0.171	-0.911	0.000	0.000	11100	1.34	38441.7074	44400
1868	5.379	-0.193	0.000	0.000	0.000	11000	1.36	38451.6853	44400
1868	5.331	-0.175	-0.903	0.000	0.000	11100	1.45	38452.6980	22200
1868	5.344	-0.198	-0.897	-0.044	-0.188	11111	1.28	38461.6349	22222
1868	5.343	-0.197	-0.900	-0.081	-0.207	11111	1.40	38464.6574	44444
1868	5.320	-0.173	-0.906	0.061	-0.292	11111	1.39	38728.9310	44444
1868	5.328	-0.172	-0.906	-0.057	-0.182	11111	1.21	38729.8232	44444
1868	5.323	-0.183	-0.899	-0.049	-0.177	11111	1.75	38792.8023	44444
1871	6.540	-0.145	-0.820	-0.116	-0.197	11111	1.40	38728.7539	44444
1871	6.577	-0.153	-0.766	-0.106	-0.226	11111	1.22	38730.7960	22222
1871	6.617	-0.178	-0.804	-0.038	-0.187	11111	1.21	38756.7278	22222
1871	6.583	-0.178	-0.798	-0.030	-0.214	11111	1.57	38763.6352	44444
1873	6.217	-0.160	-0.805	-0.050	-0.177	11111	1.42	38728.9387	44444
1873	6.211	-0.163	-0.803	-0.039	-0.185	11111	1.22	38729.8156	44444
1873	6.148	-0.168	-0.816	-0.081	-0.173	11111	1.70	38763.8777	44444
1876	4.408	-0.160	-0.983	-0.039	-0.154	11111	1.20	38427.7482	44444
1876	4.410	-0.146	-0.957	0.000	0.000	11100	1.21	38441.7128	44400
1876	4.434	-0.184	-0.959	-0.023	-0.174	11111	1.09	38451.6287	44444
1876	4.416	-0.138	-0.985	0.000	0.000	11100	1.31	38453.7014	44400
1879	3.391	-0.190	-1.020	-0.036	-0.129	11111	1.54	38459.7198	22222
1879	3.387	-0.180	-1.023	-0.100	-0.193	11111	1.21	38464.6493	44444
1886	5.699	-0.268	-0.925	-0.020	-0.206	11111	1.69	38719.9837	44444
1886	5.657	-0.242	-0.901	-0.095	-0.205	11111	1.47	38720.7909	44444
1886	5.667	-0.225	-0.896	-0.082	-0.215	11111	1.40	38787.7535	44444
1887	4.812	-0.252	-1.012	-0.114	-0.253	11111	1.33	38461.6252	22222
1887	4.779	-0.201	-1.031	-0.128	-0.252	11111	1.57	38464.6676	44444
1887	4.799	-0.277	-1.019	-0.072	-0.230	11111	1.62	38719.9760	44444
1887	4.779	-0.262	-1.010	-0.126	-0.243	11111	1.51	38720.7841	44444
1887	4.780	-0.253	-1.005	-0.118	-0.238	11111	1.35	38787.7402	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1890	6.552	-0.131	-0.770	-0.068	-0.102	11111	1.32	38670.9573	44444
1890	6.535	-0.132	-0.771	-0.022	-0.139	11111	1.52	38671.9110	44444
1890	6.549	-0.135	-0.752	-0.063	-0.178	11111	1.58	38795.7691	44444
1891	6.255	-0.140	-0.699	0.001	-0.179	11111	1.30	38670.9658	44444
1891	6.240	-0.153	-0.708	-0.018	-0.170	11111	1.48	38671.9181	44444
1892	4.630	-0.217	-0.946	-0.048	-0.185	11111	1.26	38451.6196	44444
1892	4.613	-0.203	-0.937	-0.067	-0.166	11111	1.35	38460.6417	22222
1892	4.601	-0.179	-0.930	-0.105	-0.182	11111	1.51	38469.6507	44444
1892	4.566	-0.175	-0.944	-0.064	-0.185	11111	1.35	38712.8347	44444
1892	4.533	-0.174	-0.939	-0.098	-0.206	11111	1.49	38719.7867	44444
1892	4.598	-0.188	-0.935	-0.081	-0.174	11111	1.35	38789.7413	44444
1893	6.727	0.005	-0.871	0.293	0.205	11111	1.31	37673.6669	22222
1893	6.706	-0.001	-0.859	0.322	0.223	11111	1.30	37692.7176	22222
1895	5.105	-0.005	-0.938	0.195	0.228	11111	1.51	37565.9199	22222
1895	5.103	0.005	-0.950	0.235	0.176	11111	1.44	37569.9208	22222
1895	5.149	-0.008	-0.924	0.212	0.170	11111	1.38	37673.6489	22222
1895	5.138	-0.011	-0.952	0.232	0.142	11111	1.27	37692.7023	22222
1895	4.606	0.021	-0.891	0.248	0.250	11111	1.36	37692.7331	22222
1895	4.563	0.076	-0.838	0.192	0.166	11111	1.48	38669.9269	44444
1896	6.720	0.067	-0.802	0.298	0.195	11111	1.34	37673.6576	22222
1896	6.703	0.086	-0.826	0.054	-0.040	11100	1.28	37692.7088	22222
1896	6.690	0.077	-0.832	0.282	0.191	11111	1.33	37692.7258	22222
1897	5.070	-0.088	-0.943	0.145	0.003	11111	1.24	37673.7044	22222
1897	5.069	-0.070	-0.935	0.149	0.002	11111	1.36	37673.7866	22222
1897	5.055	-0.095	-0.944	0.081	0.010	11111	1.39	37692.7409	22222
1897	5.022	-0.062	-0.938	0.113	0.001	11111	1.43	38669.9351	44444
1897	5.077	-0.097	-0.943	0.124	-0.001	11111	1.32	38712.9370	44444
1897	5.024	-0.077	-0.895	0.084	-0.035	11111	1.28	38719.8504	44444
1897	5.104	-0.119	-0.920	0.070	-0.022	11111	1.28	38789.6623	44444
1898	6.334	-0.130	-0.695	0.016	-0.166	11111	1.28	38670.9752	44444
1898	6.288	-0.122	-0.735	-0.034	-0.164	11111	1.44	38671.9250	44444
1898	6.316	-0.125	-0.702	-0.042	-0.142	11111	1.38	38786.7592	44444
1899	2.781	-0.225	-1.060	-0.037	-0.113	11111	1.61	37565.9094	22222
1899	2.791	-0.237	-1.062	-0.079	-0.091	11111	1.51	37569.9121	22222
1899	2.751	-0.246	-1.068	-0.102	-0.228	11111	1.33	37670.7832	22222
1899	2.769	-0.226	-1.056	-0.090	-0.183	11111	1.82	38339.7928	44444
1899	2.774	-0.226	-1.060	0.000	0.000	11100	1.49	38441.7199	44400
1899	2.752	-0.242	-1.082	-0.086	-0.200	11111	1.60	38706.0117	44444
1899	2.787	-0.251	-1.065	-0.053	-0.212	11111	1.64	38712.9984	44444
1900	6.434	-0.104	-0.640	0.031	-0.117	11111	1.27	38674.9562	44444
1900	6.371	-0.122	-0.668	-0.022	-0.134	11111	1.31	38675.9405	44444
1900	6.399	-0.129	-0.610	-0.036	-0.126	11111	1.50	38786.7859	44444
1901	5.258	0.243	0.155	0.286	0.142	11111	1.31	38451.6538	44444
1903	1.682	-0.188	-1.023	-0.109	-0.186	11111	1.25	38098.6214	44444
1903	1.680	-0.170	-1.050	-0.075	-0.172	11111	1.25	38404.7820	44444
1903	1.707	-0.172	-1.021	0.000	0.000	11100	1.42	38441.7250	44400
1903	1.709	-0.174	-1.008	0.000	0.000	11100	1.46	38452.7026	22200
1903	1.714	-0.193	-1.035	-0.032	-0.169	11111	1.21	38676.0174	44444
1903	1.702	-0.220	-1.031	0.003	-0.160	11111	1.77	38712.0270	44444
1903	1.640	-0.169	-1.019	-0.092	-0.176	11111	1.74	38720.0027	44444
1903	1.703	-0.157	-1.032	0.068	-0.279	11111	1.20	38723.8510	44444
1903	1.657	-0.154	-1.042	-0.099	-0.159	11111	1.20	38728.8539	44444
1903	1.718	-0.205	-1.000	-0.076	-0.161	11111	1.59	38803.7585	44444
1903	1.681	-0.162	-1.033	-0.080	-0.190	11111	1.28	38804.5851	22222
1903	1.702	-0.181	-1.005	-0.101	-0.193	11111	2.12	38822.7462	44444
1907	4.068	0.960	0.634	0.749	0.591	11111	1.25	38427.7610	44444
1907	4.092	0.943	0.691	0.000	0.000	11100	1.28	38441.7302	44400
1907	4.114	0.943	0.809	0.000	0.000	11100	1.32	38453.7047	44400
1908	5.887	1.603	1.905	1.171	0.964	11111	1.11	38337.9622	22222
1908	5.909	1.598	1.960	1.200	0.922	11111	1.08	38339.9265	44444
1910	2.978	-0.173	-0.685	-0.013	-0.101	11111	1.02	38306.0142	44444
1910	3.102	-0.183	-0.616	-0.031	-0.081	11111	1.18	38425.7742	44444
1910	3.009	-0.200	-0.644	-0.057	-0.072	11111	1.18	38427.7687	44444
1911	5.742	-0.219	-0.910	-0.053	-0.245	11111	1.31	38825.6214	44444
1911	5.741	-0.221	-0.903	-0.074	-0.241	11111	1.31	38826.6157	44444
1918	6.071	-0.207	-0.929	-0.057	-0.250	11111	1.28	38825.6027	44444
1918	6.052	-0.212	-0.914	-0.084	-0.247	11111	1.29	38826.6076	44444
1931	3.854	-0.222	-1.037	0.000	0.000	11100	1.53	38441.7394	44400
1931	3.819	-0.216	-1.017	0.000	0.000	11100	1.52	38452.7080	22200
1931	3.801	-0.283	-1.004	-0.073	-0.232	11111	1.46	38483.6150	22222
1931	3.822	-0.228	-1.003	-0.082	-0.252	11111	1.22	38822.5972	44444
1931	3.761	-0.248	-1.017	-0.092	-0.240	11111	1.22	38823.5981	44444
1931	3.761	-0.229	-1.011	-0.102	-0.236	11111	1.54	38824.6921	44444
1934	4.584	-0.109	-0.813	0.009	-0.080	11111	1.14	38345.9128	44444
1934	4.590	-0.112	-0.746	0.000	0.000	11100	1.42	38452.7126	22200
1934	4.617	-0.145	-0.704	0.000	0.000	11100	1.41	38453.7089	44400
1934	4.563	-0.085	-0.738	-0.010	-0.084	11111	1.56	38803.7703	44444
1934	4.578	-0.092	-0.759	0.014	-0.108	11111	1.14	38804.6333	22222
1937	4.796	0.100	0.104	0.170	0.062	11111	1.59	38080.7212	44444
1937	4.797	0.164	0.096	0.171	0.074	11111	1.30	38306.0218	44444
1937	4.824	0.146	0.109	0.141	0.042	11111	1.30	38453.6061	44444
1937	4.826	0.103	0.090	0.119	0.011	11111	2.65	38511.6080	44444
1937	4.795	0.131	0.106	0.135	0.073	11111	1.34	39056.9158	44444
1938	6.015	0.049	-0.199	0.080	0.081	11111	1.43	39032.8697	44444
1938	6.050	0.035	-0.197	0.114	0.039	11111	1.28	39033.8905	44444
1938	6.013	0.069	-0.210	0.088	0.035	11111	1.44	39034.8633	44444
1938	6.055	0.046	-0.193	0.132	0.062	11111	1.42	39035.8628	44444
1938	6.077	0.056	-0.238	0.119	0.055	11111	1.76	39036.8254	44444
1938	6.059	0.049	-0.225	0.115	0.045	11111	1.68	39036.8320	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1938	6.060	0.056	-0.232	0.117	0.046	11111	1.61	39036.8383	44444
1938	6.037	0.043	-0.189	0.102	0.040	11111	1.02	39037.9707	44444
1938	6.049	0.062	-0.209	0.134	0.038	1111I	1.31	39045.8517	44444
1938	6.022	0.074	-0.218	0.097	0.056	11111	1.07	39065.0012	44444
1946	4.845	-0.115	-0.640	-0.015	-0.112	11111	1.04	38327.9598	22222
1946	4.847	-0.128	-0.645	0.000	0.000	11100	1.29	38452.7193	22200
1946	4.895	-0.115	-0.621	0.000	0.000	11100	1.19	38453.6944	44400
1948	1.713	-0.210	-1.078	-0.083	-0.185	11111	1.22	38327.9718	22222
1948	1.757	-0.212	-1.058	0.000	0.000	11100	1.38	38451.6913	44400
1948	1.748	-0.222	-1.022	-0.086	-0.194	11111	1.49	38483.6220	22222
1948	3.052	-0.193	-1.025	-0.101	-1.119	01110	2.60	38496.6602	44444
1948	1.769	-0.229	-1.039	-0.079	-0.200	11111	1.38	38849.6017	44444
1963	4.887	1.178	1.049			11100	1.24	38337.9809	22222
1963	4.885	1.184	1.077	0.867	0.595	11111	1.17	38339.9341	44444
1963	4.904	1.167	1.071	0.899	0.619	11111	1.18	38343.8827	44444
1983	3.582	0.483	0.027	0.000	0.000	11100	1.80	38440.6819	44400
1983	3.577	0.484	0.097	0.000	0.000	11100	1.74	38453.6243	44400
1995	4.526	0.958	0.683	0.733	0.490	11111	1.01	38310.9961	44444
1995	4.515	0.941	0.713	0.743	0.510	11111	1.03	38369.7987	44444
1995	4.498	0.933	0.708	0.720	0.481	11111	1.03	38397.8036	44444
1995	4.553	0.915	0.690	0.724	0.483	11111	1.12	38469.6585	44444
1998	3.533	0.106	0.145	0.000	0.000	11100	1.48	38453.6278	44400
1998	3.538	0.084	0.055	0.120	0.018	11111	1.49	38682.9596	44444
1998	3.556	0.099	0.063	0.121	0.043	11111	1.48	38700.9160	44444
1998	3.605	0.049	0.065	0.139	-0.003	11111	1.65	38782.7775	22222
1998	3.550	0.076	0.105	0.053	0.053	11111	1.49	38784.7285	44444
2004	2.072	-0.189	-1.005	0.069	-0.040	11100	1.36	37719.6427	22222
2004	2.061	-0.177	-1.004	-0.000	-0.171	11111	1.31	37720.5980	22222
2004	2.053	-0.160	-0.984	-0.044	-0.166	11111	1.50	38343.8443	44444
2004	2.053	-0.187	-1.006	0.000	0.000	11100	1.41	38459.6416	44400
2010	4.885	-0.055	-0.158	0.028	-0.083	11111	1.13	37594.0114	22222
2010	4.904	-0.068	-0.145	0.000	0.000	11100	1.34	38452.7279	22200
2010	4.940	-0.098	-0.065	0.000	0.000	11100	1.21	38453.6978	44400
2011	4.752	1.632	1.964	1.366	1.089	11111	1.00	38311.0027	44444
2011	4.724	1.614	1.890	0.000	0.000	11100	1.22	38452.7330	22200
2011	4.819	1.586	2.105	0.000	0.000	11100	1.16	38453.7170	44400
2012	3.971	1.141	1.089	0.833	0.575	11111	1.01	38327.9822	22222
2012	3.970	1.127	1.097	0.000	0.000	11100	1.27	38450.7521	44400
2012	4.012	1.111	1.283	0.000	0.000	11100	1.15	38453.7129	44400
2018	6.216	1.781	2.063	1.536	1.414	11111	1.03	38337.9725	22222
2018	6.230	1.742	2.068	1.571	1.357	11111	1.00	38339.9433	44444
2029	4.980	0.053	0.157	0.104	0.022	11111	1.10	38327.9916	22222
2029	5.014	0.045	0.077	0.000	0.000	11100	1.12	38459.6500	44400
2034	4.561	0.010	0.044	0.047	0.002	11111	1.03	38328.0024	22222
2034	4.587	-0.045	0.055	0.000	0.000	11100	1.04	38459.6458	44400
2034	4.637	-0.041	0.038	0.016	0.003	11111	1.53	38509.6210	44444
2034	4.592	-0.013	-0.026	0.056	0.000	11111	1.08	38784.7797	44444
2035	3.798	0.983	0.735	0.000	0.000	11100	1.84	38440.7105	44400
2035	3.904	0.974	0.692	0.000	0.000	11100	1.67	38456.6037	44400
2047	4.380	0.618	0.067	0.504	0.322	11111	1.19	38083.7240	44444
2047	4.414	0.583	0.120	0.000	0.000	11100	1.43	38450.7617	44400
2047	4.413	0.595	0.093	0.000	0.000	11100	1.31	38452.7381	22200
2061	0.726	1.830	2.020	1.601	1.431	11111	1.15	38315.9475	44444
2061	0.656	1.891	2.077	1.632	1.441	11111	1.11	38316.9679	22221
2061	0.692	1.856	2.093	1.564	1.485	11111	1.12	38317.9629	44444
2061	0.435	1.857	2.106	1.644	1.271	11111	1.11	38397.7879	44444
2061	0.381	1.829	2.125	1.699	1.268	11111	1.28	38721.7937	22222
2061	0.320	1.853	2.034	1.574	1.270	11111	1.10	38818.6243	22222
2061	0.381	1.836	2.000	0.000	0.000	11100	2.24	38823.7793	44444
2061	0.334	1.841	2.047	1.567	1.313	11111	1.78	38824.7508	44444
2077	3.730	0.991	0.918	0.000	0.000	11100	1.37	38450.7750	44400
2077	3.729	1.006	0.880	0.000	0.000	11100	1.28	38452.7490	22200
2077	3.768	0.986	1.033	0.000	0.000	11100	1.20	38453.7208	44400
2084	4.824	-0.063	-0.935	0.083	-0.099	11111	1.36	38095.7338	44444
2084	4.835	-0.075	-0.916	0.000	0.000	11100	1.09	38451.6971	44400
2084	4.838	-0.071	-0.912	0.000	0.000	11100	1.28	38452.7438	22200
2085	3.671	0.332	0.012	0.000	0.000	11100	1.62	38432.7421	44400
2085	3.761	0.325	0.017	0.000	0.000	11100	1.45	38456.6081	44400
2088	1.889	0.023	0.042	0.061	0.009	11111	1.02	38356.8861	44444
2088	1.907	0.017	0.023	0.104	0.010	11111	1.06	38357.8288	44444
2088	1.904	0.027	0.050	0.065	-0.029	11111	1.05	38461.6452	22222
2091	4.306	1.710	1.865	1.712	1.473	11111	1.09	38343.8531	44444
2091	4.196	1.747	1.836	1.621	1.481	11111	1.03	38357.8860	44444
2091	4.255	1.692	1.785	1.726	1.486	11111	1.10	38408.8164	44444
2095	2.592	-0.060	-0.197	-0.001	-0.027	11111	1.01	38357.8952	44444
2095	2.619	-0.106	-0.174	0.019	-0.074	11111	1.10	38408.8247	44444
2095	2.665	-0.078	-0.153	-0.014	-0.075	11111	1.12	38469.6661	44444
2113	4.505	1.230	1.189	0.934	0.682	11111	1.45	38408.8311	44444
2113	4.531	1.199	1.225	0.942	0.667	11111	1.30	38460.6524	22222
2113	4.525	1.221	1.211	0.925	0.656	11111	1.55	38475.6629	44444
2124	4.153	0.145	0.176	0.262	0.002	11111	1.12	38074.7024	11111
2124	4.127	0.175	0.114	0.175	0.076	11111	1.34	38408.8504	44444
2124	4.129	0.166	0.120	0.188	0.081	11111	1.26	38411.8269	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
2128	4.947	-0.110	-0.571	-0.035	-0.083	11111	1.49	38066.7426	22211
2128	4.956	-0.100	-0.570	-0.025	-0.087	11111	1.73	38408.8427	44444
2128	4.926	-0.135	-0.606	0.000	0.000	11100	1.52	38432.7465	44400
2134	4.149	0.857	0.501	0.687	0.442	11111	1.19	38083.7341	44444
2134	4.150	0.880	0.536	0.675	0.453	11111	1.07	38302.9784	22221
2135	4.628	0.281	-0.681	0.238	0.241	11111	1.18	37714.7208	22222
2135	4.617	0.277	-0.690	0.317	0.200	11111	1.02	37719.6213	22222
2135	4.602	0.323	-0.626	0.338	0.219	11111	1.10	38066.7499	22211
2135	4.658	0.284	-0.665	0.341	0.217	11111	1.06	38302.9872	22221
2155	4.677	0.072	-0.082	0.109	0.002	11111	1.76	38080.7287	44444
2155	4.676	0.058	0.058	0.086	0.	11111	1.49	38343.9027	44444
2155	4.662	0.033	0.003	0.089	-0.010	11111	1.49	38682.9747	44444
2159	4.425	-0.139	-0.692	-0.068	-0.158	11111	1.06	38085.6508	44444
2159	4.408	-0.156	-0.651	-0.041	-0.172	11111	1.08	38302.9950	22221
2198	4.918	-0.123	-0.582	-0.015	-0.138	11111	1.06	38303.0084	22221
2198	4.927	-0.121	-0.589	-0.021	-0.138	11111	1.05	38343.9127	44444
2199	4.544	-0.146	-0.684			11100	1.10	38080.7011	44444
2199	4.450	-0.163	-0.647	-0.054	-0.168	11111	1.08	38303.0020	22221
2199	4.445	-0.191	-0.654	-0.050	-0.140	11111	1.06	38369.8373	44444
2209	4.759	0.073	-0.034	0.088	0.017	11111	1.26	38085.6784	44444
2209	4.830	0.000	0.019	0.074	-0.030	11111	1.25	38368.8538	44444
2209	4.794	0.020	0.009		-0.020	11101	1.43	38393.9294	33333
2209	4.798	0.015	-0.001	0.047	-0.011	11111	1.55	38446.8194	44444
2216	3.190	1.620	1.693	1.528	1.314	11111	1.09	38108.6425	44444
2216	3.388	1.624	1.625	1.498	1.284	11111	1.02	38328.9790	44444
2216	3.231	1.568	1.683	1.422	1.326	11111	1.56	38509.6322	44444
2219	4.329	1.036	0.792	0.787	0.558	11111	1.00	38325.9739	22222
2219	4.334	1.014	0.835	0.793	0.521	11111	1.01	38368.8434	44444
2219	4.339	1.002	0.828	0.817	0.554	11111	1.00	38369.8443	44444
2219	4.374	0.991	0.813	0.000	0.000	11100	1.45	38393.6430	33333
2219	4.380	0.988	0.827	0.000	0.000	11100	1.02	38393.8313	33333
2227	3.960	1.298	1.433	0.989	0.618	11111	1.28	38063.7112	11212
2227	3.982	1.308	1.395	0.976	0.657	11111	1.29	38403.7810	44444
2227	3.941	1.321	1.425	0.944	0.655	11111	1.32	38424.7468	44444
2238	4.481	-0.004	0.015	0.052	-0.014	11111	1.16	38067.7538	44444
2238	4.482	0.006	0.065	0.099	-0.005	11111	1.13	38403.7998	44444
2238	4.475	0.008	0.030	0.037	-0.018	11111	1.53	38446.8287	44444
2238	4.465	0.025	0.012	0.047	-0.027	11111	1.48	38448.8136	44444
2240	6.250	0.455	-0.416	0.465	0.404	11111	1.10	37668.6884	22222
2244	5.017	-0.083	-0.243	0.039	-0.058	11111	1.46	38403.7898	44444
2244	4.994	-0.104	-0.226	0.000	0.000	11100	1.58	38432.7507	44400
2282	3.000	-0.187	-0.747	-0.038	-0.179	11111	2.19	38721.8769	22222
2282	3.034	-0.220	-0.690	-0.045	-0.159	11111	2.17	38722.8816	22222
2282	3.029	-0.147	-0.708	-0.057	-0.200	11111	2.23	38723.8616	44444
2286	2.831	1.709	2.050	2.489	1.354	11101	1.12	38109.6548	44444
2286	2.871	1.616	1.891	1.589	1.384	11111	1.05	38370.8181	44444
2286	2.827	1.672	1.801	0.000	0.000	11100	1.08	38432.7548	44400
2286	2.908	1.648	1.873	0.000	0.000	11100	1.39	38450.7787	44400
2294	1.940	-0.246	-0.955	-0.157	-0.236	11111	1.60	38420.7551	44444
2294	1.977	-0.230	-0.968	0.000	0.000	11100	1.66	38440.7201	44400
2294	1.963	-0.240	-0.942	0.000	0.000	11100	1.72	38456.6882	44400
2298	4.273	0.202	0.091	0.177	0.115	11111	1.17	38419.7735	44444
2298	4.360	0.208	0.190	0.000	0.000	11100	1.34	38453.7291	44400
2308	5.992	2.302	3.326	1.718	1.288	11111	1.10	38419.7831	44444
2308	6.172	2.343	3.431	1.836	1.266	11111	1.33	38459.7348	22222
2308	6.277	2.330	3.574	1.827	1.286	11111	1.20	38469.6810	44444
2343	4.139	-0.136	-0.520	-0.017	-0.080	11111	1.06	38345.9812	44444
2343	4.143	-0.144	-0.472	-0.037	-0.119	11111	1.50	38456.7772	44444
2343	4.149	-0.144	-0.470	-0.026	-0.142	11111	1.44	38474.7219	44444
2344	5.033	-0.190	-0.759	-0.088	-0.175	11111	1.97	38456.7678	44444
2344	5.042	-0.172	-0.776	-0.106	-0.150	11111	1.30	38460.6616	22222
2344	5.070	-0.199	-0.744	-0.088	-0.190	11111	1.76	38481.6832	33433
2356	3.755	-0.157	-0.731	0.000	0.000	11100	1.39	38451.7025	44400
2356	3.768	-0.143	-0.753	0.000	0.000	11100	1.29	38456.6319	44400
2382	5.867	1.004	0.737	0.717	0.534	11111	1.11	37714.6316	22222
2385	4.479	-0.001	-0.178	0.062	0.039	11111	1.17	38419.7925	44444
2385	4.494	-0.016	-0.158	0.000	0.000	11100	1.18	38432.7585	44400
2385	4.553	-0.021	-0.090	0.000	0.000	11100	1.30	38453.7340	44400
2387	4.337	-0.242	-0.966	-0.124	-0.234	11111	1.88	38420.7772	44444
2387	4.347	-0.245	-0.990	0.000	0.000	11100	1.89	38440.7251	44400
2387	4.310	-0.238	-0.977	0.000	0.000	11100	1.90	38456.6845	44400
2392	6.215	1.109	0.778	0.739	0.474	11111	1.56	38377.9228	44444
2392	6.264	1.106	0.775	0.768	0.473	11111	1.38	38397.7964	44444
2414	4.524	-0.039	-0.021	0.027	-0.006	11111	1.89	38420.7858	44444
2414	4.536	-0.035	-0.005	0.000	0.000	11100	1.88	38440.7292	44400
2414	0.000	-0.078	0.000	0.000	0.000	01000	1.75	38456.6354	44400
2414	4.556	-0.083	0.002	0.000	0.000	11100	1.81	38456.6701	44400
2421	1.932	-0.002	0.048	0.138	0.003	11111	1.04	37592.9639	22222
2421	1.902	-0.034	0.121	0.008	-0.034	11111	1.04	38074.6690	11111
2421	1.882	0.038	0.045	0.001	-0.016	11111	1.17	38083.7424	44444
2421	1.925	0.020	0.093	0.101	-0.006	11111	1.07	38303.0167	22221
2421	1.919	-0.028	0.056	0.000	0.000	11100	1.06	38432.7383	44400

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
2427	4.779	1.241	1.321	0.890	0.587	11111	1.02	38339.9513	44444
2427	4.801	1.248	1.307	0.915	0.607	11111	1.06	38343.8919	44444
2429	3.905	1.069	0.997	0.763	0.521	11111	1.61	38085.6592	44444
2429	4.547	0.402	0.994	1.389	0.519	00001	1.76	38420.7951	44444
2429	3.943	1.022	0.993	0.808	0.514	11111	1.65	38461.6551	22222
2443	4.401	1.177	1.024	0.866	0.608	11111	1.58	38085.6689	44444
2443	4.409	1.151	1.047	0.855	0.594	11111	1.77	38420.8035	44444
2443	4.397	1.135	1.044	0.861	0.580	11111	1.63	38461.6628	22222
2450	4.789	1.497	1.695	1.098	0.782	11111	1.68	38420.8137	44444
2450	5.083	1.487	1.559	0.000	0.000	01100	1.49	38456.6736	44400
2450	4.827	1.488	1.658	0.000	0.000	11100	1.47	38459.6542	44400
2456	4.659	-0.224	-1.080	-0.103	-0.227	11111	1.10	37593.9436	22222
2456	4.653	-0.222	-1.082	-0.083	-0.223	11111	1.09	37593.9545	22222
2456	4.648	-0.227	-1.084	-0.121	-0.223	11111	1.25	37692.8049	22222
2456	4.656	-0.245	-1.071	-0.097	-0.210	11111	1.08	38063.7243	11212
2456	4.642	-0.229	-1.035	-0.064	-0.208	11111	1.61	38091.7795	12222
2456	4.678	-0.257	-1.052	0.000	0.000	11100	1.36	38450.7663	44400
2456	4.672	-0.266	-1.075	0.000	0.000	11100	1.14	38451.7095	44400
2467	6.363	-0.031	-0.943	0.060	-0.060	11111	1.15	37593.9354	22222
2467	6.389	-0.048	-0.913	0.086	-0.046	11111	1.56	37693.5814	22222
2470	4.883	0.077	0.083	0.000	0.000	11100	1.30	38450.7827	44400
2470	4.863	0.074	0.068	0.000	0.000	11100	1.16	38451.7155	44400
2473	2.973	1.453	1.479	1.007	0.618	11111	1.14	38109.6811	44444
2473	2.994	1.406	1.405	0.000	0.000	11100	2.23	38393.6108	33333
2473	3.026	1.370	1.452	0.000	0.000	11100	1.10	38393.8875	33333
2473	2.963	1.379	1.457	0.000	0.000	11100	1.01	38396.8144	44444
2473	2.951	1.401	1.458	0.000	0.000	11100	1.23	38396.9168	44444
2473	2.987	1.395	1.469	0.959	0.627	11111	1.20	38411.8687	44444
2473	2.985	1.397	1.505	0.000	0.000	11100	1.25	38452.7688	22200
2478	4.483	1.173	1.128	0.870	0.605	11111	1.10	38345.9930	44444
2478	4.495	1.158	1.182	0.000	0.000	11100	1.06	38441.6977	44400
2478	4.488	1.156	1.191	0.000	0.000	11100	1.34	38450.7707	44400
2484	3.350	0.418	0.048	0.400	0.230	11111	1.20	38419.8269	44444
2484	3.330	0.430	0.051	0.390	0.231	11111	1.20	38460.7144	22222
2484	3.354	0.410	0.067	0.390	0.233	11111	1.34	38475.7029	44444
2491	0.000	0.000	0.000	-0.021	-0.029	00011	1.70	38315.9626	44444
2491	-1.454	-0.004	-0.026	0.007	-0.044	11111	1.55	38316.9999	22221
2491	-1.428	-0.007	-0.011	0.043	-0.025	11111	1.60	38317.9782	44444
2491	-1.463	-0.018	-0.009	-0.032	-0.019	11111	1.52	38324.0078	44444
2506	4.454	1.106	1.028	0.789	0.554	11111	1.42	38419.8460	44444
2506	4.417	1.111	1.031	0.792	0.543	11111	1.24	38461.6901	22222
2506	4.447	1.252	1.098	0.756	0.518	11111	1.51	38481.6903	33433
2527	4.556	1.353	1.663	0.998	0.710	11111	1.64	38446.8509	44444
2527	4.546	1.373	1.656	1.047	0.699	11111	1.58	38448.8237	44444
2527	4.558	1.358	1.667	1.013	0.719	11111	1.53	38450.7977	44444
2538	3.942	-0.229	-0.926	-0.181	-0.183	11111	2.45	38108.6365	44444
2540	3.609	0.103	0.178			11100	1.01	38079.6599	12221
2540	3.625	0.115	0.123	0.073	0.081	11111	1.08	38080.7518	44444
2540	3.839	0.085	0.151	0.376	0.052	01101	1.18	38419.8566	44444
2540	3.605	0.098	0.150	0.132	0.077	11111	1.39	38431.8634	44444
2560	4.347	0.854	0.513	0.678	0.441	11111	1.26	38420.8594	44444
2560	4.355	0.843	0.515	0.643	0.435	11111	1.58	38446.8618	44444
2560	4.344	0.848	0.518	0.636	0.431	11111	1.29	38450.7882	44444
2564	4.662			0.320	0.226	10011	1.18	38067.7936	44444
2564	4.635	0.302	0.058	0.297	0.194	11111	1.28	38420.8492	44444
2564	4.656	0.308	0.085	0.000	0.000	11100	1.06	38441.7014	44400
2571	4.812	-0.219	-0.962	-0.128	-0.224	11111	1.65	38063.7329	11212
2571	4.826	-0.194	-0.956	0.000	0.000	11100	1.72	38440.7340	44400
2571	4.846	-0.209	-0.958	0.000	0.000	11100	1.66	38459.6583	44400
2574	4.106	1.410	1.687	0.000	0.000	11100	1.47	38439.7431	44400
2574	4.071	1.440	1.660	0.000	0.000	11100	1.51	38451.7212	44400
2580	3.873	1.676	2.024	1.203	0.819	11111	1.88	38461.6719	22222
2580	3.943	1.699	2.012	1.196	0.833	11111	1.82	38469.6270	44444
2580	3.939	1.754	1.966	1.096	0.810	11111	1.85	38474.6299	44444
2585	4.897	0.078	0.006	0.026	0.059	11111	1.03	38062.7236	22211
2585	4.906	0.007	0.042	0.047	0.001	11111	1.21	38419.8684	44444
2585	4.914	0.013	0.058	0.063	0.001	11111	1.22	38431.8368	44444
2585	4.902	0.039	0.043	0.055	-0.010	11111	1.20	38450.7795	44444
2590	4.694	0.352	0.068	0.000	0.000	11100	1.75	38439.7473	44400
2590	4.678	0.360	0.056	0.000	0.000	11100	1.72	38440.7381	44400
2596	4.400	-0.071	-0.644	0.045	-0.048	11111	1.68	38093.7039	44444
2596	4.368	-0.067	-0.702	0.000	0.000	11100	1.65	38439.7514	44400
2596	4.380	-0.044	-0.703	0.000	0.000	11100	1.62	38440.7423	44400
2618	1.457	-0.265	-0.884	-0.069	-0.213	11111	2.19	38461.6810	22222
2618	1.504	-0.214	-0.928	-0.093	-0.201	11111	2.09	38466.6399	44444
2618	1.516	-0.208	-0.940	-0.105	-0.059	11110	2.09	38469.6338	44444
2646	3.388	1.719	1.914	1.263	0.960	11111	2.01	38343.9621	44444
2646	3.467	1.711	1.852	1.282	0.986	11111	2.06	38369.8637	44444
2646	3.446	1.744	1.841	1.303	0.981	11111	2.05	38383.8784	44444
2648				-0.106	-0.170	00011	1.44	38067.8023	44444
2648	4.968	-0.190	-0.984	-0.077	-0.180	11111	1.25	38345.9548	44444
2648	4.995	-0.198	-0.936	-0.030	-0.191	11111	1.25	38369.8885	44444
2648	5.010	-0.201	-0.944	-0.038	-0.211	11111	1.28	38406.8282	43333
2648	5.038	-0.201	-0.852	-0.071	-0.171	11111	1.30	38410.8271	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
2653	3.028	-0.052	-0.780	0.015	-0.104	11111	1.82	38064.7544	12222
2653	2.983	-0.087	-0.807	-0.007	-0.066	11111	1.80	38345.9697	44444
2653	3.018	-0.098	-0.808	0.029	-0.082	11111	1.81	38369.8720	44444
2653	3.015	-0.102	-0.782	-0.002	-0.109	11111	1.91	38406.8402	43333
2657	4.099	-0.099	-0.476	-0.024	-0.079	11111	1.50	38085.6882	44444
2657	4.113	-0.111	-0.455	-0.003	-0.122	11111	1.49	38343.9716	44444
2693	1.782	0.661	0.571	0.493	0.336	11111	1.95	38085.6967	44444
2693	1.784	0.677	0.526	0.499	0.323	11111	1.94	38369.8798	44444
2693	1.813	0.675	0.517	0.517	0.328	11111	1.98	38383.8907	44444
2697	4.410	1.249	1.399	1.023	0.623	11111	1.30	38091.7899	12222
2697	4.421	1.258	1.414	0.954	0.648	11111	1.00	38326.0086	22222
2697	4.428	1.258	1.399	0.903	0.630	11111	1.28	38510.6400	22222
2701	4.901	1.031	0.791	0.760	0.523	11111	1.24	38339.9696	44444
2701	4.916	1.035	0.801	0.788	0.527	11111	1.30	38343.9233	44444
2701	4.925	1.007	0.786	0.810	0.533	11111	1.25	38366.9224	44444
2714	4.171	0.002	-0.008	0.064	0.008	11111	1.27	38108.6767	44444
2714	4.156	0.002	0.059	0.046	-0.000	11111	1.18	38381.8773	44444
2714	4.127	-0.009	0.051	0.062	0.012	11111	1.22	38383.9018	44444
2714	0.000	0.000	0.047	-0.014	0.029	00101	1.71	38397.9520	44444
2745	4.688	-0.202	-0.633	0.059	-0.119	11111	2.13	38356.9963	44444
2745	4.736	-0.193	-0.577	-0.028	-0.091	11111	2.07	38383.9140	44444
2745	4.520	-0.212	-0.832	0.018	-0.131	11111	1.93	38721.9206	22222
2749	3.813	-0.162	-0.778	0.029	-0.098	11111	2.18	38383.9249	44444
2749	3.768	-0.151	0.000	0.008	-0.109	11011	1.95	38397.8329	44444
2749	3.883	-0.234	-0.693	0.013	-0.123	11111	1.98	38721.9108	22222
2751	5.036	0.054	0.052	0.145	0.042	11111	1.13	38131.6360	44444
2751	5.051	0.095	0.080	0.180	0.078	11111	1.05	38357.9384	44444
2751	5.070	0.066	0.117	0.149	0.064	11111	1.05	38381.8889	44444
2751	5.065	0.078	0.100	0.143	0.057	11111	1.05	38385.8832	44444
2751	5.004	0.091	0.114	0.125	0.075	11111	1.29	38397.9592	44444
2763	3.575	0.100	0.091	0.073	0.090	11111	1.12	37668.7341	22222
2763	3.605	0.095	0.137	0.133	0.057	11111	1.08	38082.7347	44444
2763	3.585	0.133	0.075	0.153	0.037	11111	1.08	38089.7203	22222
2763	3.603	0.108	0.087	0.100	0.040	11111	1.04	38108.6185	44444
2764	4.804	1.687	1.838	1.390	0.928	11111	1.81	38085.7094	44444
2764	4.811	1.692	1.924	-0.014	0.000	11100	1.78	38397.8442	44444
2764	4.787	1.690	1.899	1.337	0.975	11111	1.78	38424.7703	44444
2764	4.810	1.665	1.832	1.354	0.947	11111	1.87	38722.8919	22222
2764	4.697	1.750	1.872	1.200	0.988	11111	1.90	38723.8826	44444
2766	4.634	1.601	1.898	1.405	1.248	11111	2.02	38400.8325	44444
2766	4.605	1.610	1.886	1.442	1.249	11111	2.06	38424.7807	44444
2766	4.567	1.601	1.894	1.530	1.236	11111	2.18	38464.6952	44444
2777	3.515	0.362	0.059	0.426	0.183	11111	1.45	38091.8095	12222
2777	3.537	0.323	0.083	0.324	0.188	11111	1.03	38381.9041	44444
2777	3.552	0.335	0.027	0.336	0.187	11111	1.03	38385.8941	44444
2777	3.510	0.338	0.083	0.315	0.204	11111	1.43	38397.9676	44444
2781	4.958	-0.125	-0.993	0.020	-0.091	11111	3.08	38103.7576	44444
2781	4.969	-0.161	-1.005	0.046	-0.128	11111	1.88	38415.7461	44444
2781	4.856	-0.161	-1.000	-0.015	-0.128	11111	1.90	38424.7904	44444
2781	5.042	-0.153	-0.971	0.000	0.000	11100	2.06	38438.7799	44400
2782	4.432	-0.168	-1.010	0.008	-0.161	11111	1.87	38415.7596	44444
2782	4.428	-0.189	-0.980	0.034	-0.157	11111	1.90	38722.9066	22222
2812	4.967	-0.062	-0.374	0.065	-0.042	11111	1.63	38415.8065	44444
2812	4.902	-0.055	-0.389	0.037	-0.023	11111	1.83	38430.8110	44444
2812	5.012	-0.046	-0.350	0.000	0.000	11100	1.85	38438.7924	44400
2812	4.987	-0.045	0.000	0.000	0.000	11000	1.71	38439.7664	44400
2818	4.635	-0.042	-0.061	-0.087	-0.065	11111	1.14	38131.6463	44444
2818	4.650	-0.020	0.004	0.021	-0.040	11111	1.06	38385.9054	44444
2818	4.641	-0.015	0.021	0.024	-0.034	11111	1.05	38386.8766	44444
2821	3.825	1.046	0.851	0.793	0.485	11111	1.07	38088.7456	22222
2821	3.783	1.033	0.842	0.730	0.528	11111	1.03	38381.9159	44444
2821	3.801	1.025	0.835	0.773	0.514	11111	1.01	38386.8864	44444
2821	3.752	1.036	0.853	0.770	0.505	11111	1.40	38397.9749	44444
2827	2.414	-0.073	0.000	-0.014	0.000	11000	2.12	38397.8510	44444
2827	0.000	0.000	0.000	-0.014	-0.059	00001	2.14	38397.8566	44444
2827	2.421	-0.080	-0.707	0.066	-0.064	11111	2.17	38415.8156	44444
2827	2.395	-0.127	-0.697	0.114	-0.031	11111	2.31	38464.7041	44444
2845	2.886	-0.061	-0.290	-0.013	-0.047	11111	1.22	38088.7565	22222
2845	2.901	-0.113	-0.251	-0.006	-0.072	11111	1.13	38368.8707	44444
2845	2.901	-0.087	-0.277	-0.009	-0.079	11111	1.12	38386.8955	44444
2845	2.885	-0.117	-0.273	0.005	-0.052	11111	1.76	38397.9835	44444
2852	4.179	0.327	-0.007	0.296	0.182	11111	1.19	38080.8115	44444
2852	4.187	0.328	-0.013	0.334	0.188	11111	1.01	38089.7103	22222
2852	4.189	0.302	0.009	0.305	0.199	11111	1.01	38098.6326	44444
2852	4.188	0.302	0.003	0.423	0.144	11111	1.00	38107.6454	34444
2852	4.180	0.338	-0.024	0.366	0.186	11111	1.00	38109.6408	44444
2852	4.205	0.334	-0.001	0.357	0.208	11111	1.00	38326.0179	22222
2852	4.147	0.315	0.031	0.000	0.000	11100	1.01	38439.6957	44400
2852	4.205	0.322	-0.018	0.343	0.206	11111	1.00	38725.9539	22222
2852	4.167	0.310	0.002	0.000	0.000	11100	1.04	38763.7787	22200
2852	4.179	0.335	-0.030	0.349	0.176	11111	1.16	38790.8589	22222
2852	4.198	0.316	-0.022	0.328	0.171	11111	1.00	38791.7637	44444
2852	4.198	0.307	-0.015	0.324	0.172	11111	1.04	38791.8106	44444
2852	4.191	0.341	-0.037	0.000	0.000	11100	1.20	38792.6416	22200
2852	4.194	0.316	-0.012	0.341	0.177	11111	1.00	38792.7616	44444
2852	4.204	0.328	-0.052	0.293	0.194	11111	1.07	38797.6730	22222
2852	4.183	0.332	-0.033	0.325	0.184	11111	1.00	38803.7361	44444
2852	4.188	0.309	-0.011	0.331	0.192	11111	1.14	38803.8159	44444
2852	4.196	0.328	-0.013	0.309	0.191	11111	1.00	38804.7168	22222
2852	4.187	0.309	-0.019	0.310	0.181	11111	1.00	38805.7187	44444

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B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
2852	4.163	0.314	-0.021	0.000	0.000	11100	1.04	38809.6554	44400
2852	4.172	0.323	-0.002	0.000	0.000	11100	1.07	38810.7701	44400
2852	4.184	0.328	-0.018	0.000	0.000	11100	1.35	38810.8431	44400
2852	4.208	0.328	-0.027	0.000	0.000	11100	1.05	38812.6423	22200
2852	4.167	0.318	-0.022	0.295	0.177	11111	1.07	38818.6147	22222
2852	4.183	0.325	-0.019	0.352	0.176	11111	1.04	38820.7311	22222
2852	4.199	0.329	-0.033	0.330	0.163	11111	1.16	38824.7649	44444
2852	4.197	0.333	-0.024	0.000	0.000	11100	1.01	38833.6653	22200
2852	4.170	0.300	-0.024	0.284	0.174	11111	1.16	38845.7087	44444
2852	4.182	0.317	-0.038	0.290	0.180	11111	1.16	38846.7066	44444
2852	4.173	0.284	0.010	0.308	0.182	11111	1.20	38858.6843	22222
2852	4.173	0.320	-0.001	0.329	0.188	11111	1.00	39056.0163	44444
2852	4.189	0.314	-0.038	0.341	0.206	11111	1.01	39084.9823	22222
2852	4.181	0.303	-0.021	0.310	0.176	11111	1.04	39129.8797	44444
2854	4.295	1.434	1.565	1.100	0.785	11111	1.11	38368.8790	44444
2854	4.329	1.424	1.499	1.122	0.801	11111	1.15	38385.9201	44444
2854	4.314	1.425	1.529	1.117	0.785	11111	1.12	38386.9051	44444
2854	4.264	1.437	0.000	1.065	0.795	11011	1.85	38397.9920	44444
2864	4.522	1.298	1.378			11100	1.07	38063.7461	11212
2864	4.544	1.288	1.374	0.909	0.635	11111	1.11	38386.9144	44444
2864	4.580	1.279	1.359	0.886	0.637	11111	1.47	38521.6261	44444
2874	4.848	0.282	0.106	0.217	0.271	11111	1.76	38063.7563	11212
2874	4.839	0.225	0.203	0.266	0.247	11111	1.83	38424.8021	44444
2874	4.781	0.243	0.201	0.226	0.275	11111	2.07	38430.8211	44444
2874	4.891	0.219	0.246	0.000	0.000	11100	1.88	38439.7701	44400
2890	1.594	0.001	-0.003	0.121	-0.025	11111	1.01	38064.7769	12222
2890	1.542	0.039	-0.018	0.009	-0.031	11111	1.19	38143.6421	44444
2890	1.612	0.040	0.052	0.093	0.014	11111	1.00	38326.0282	22222
2890	1.565	0.027	0.027	0.019	-0.019	11111	1.05	38386.9243	44444
2890	1.551	0.079	-0.000	0.000	0.000	11100	1.13	38792.6651	22200
2905	4.067	1.515	1.966	1.258	0.872	11111	1.24	38143.6510	44444
2905	4.043	1.551	1.941	1.239	0.918	11111	1.07	38386.9338	44444
2905	4.087	1.552	1.922	1.214	0.939	11111	1.34	38521.6337	44444
2906	4.457	0.505	0.042	0.470	0.277	11111	1.79	38415.8273	44444
2906	4.490	0.505	0.084	0.000	0.000	11100	1.85	38439.7741	44400
2906	4.455	0.504	0.072	0.000	0.000	11100	1.75	38440.7458	44400
2922	4.614	-0.126	-0.433	-0.034	-0.119	11111	2.05	38064.7642	12222
2922	4.632	-0.124	-0.430	-0.058	-0.128	11111	2.17	38424.8108	44444
2922	4.594	-0.115	-0.416	0.026	-0.119	11111	2.09	38464.6860	44444
2930	4.904	0.383	0.155	0.420	0.215	11111	1.02	38367.9645	44444
2930	4.889	0.415	0.092	0.367	0.226	11111	1.08	38386.9443	44444
2930	4.950	0.397	0.119		0.225	11101	1.14	38393.9486	33333
2930	4.919	0.392	0.119	0.365	0.228	11111	1.22	38510.6499	22222
2943	0.340	0.416	0.067	0.450	0.209	11111	1.54	38143.6621	44444
2943	0.339	0.423	0.057	0.442	0.219	11111	1.39	38147.6311	44444
2943	0.500	0.427	-0.016	0.405	0.343	01111	1.31	38315.9775	44444
2943	0.349	0.454	0.051	0.369	0.247	11111	1.17	38317.0145	22221
2943	0.361	0.440	0.016			11100	1.23	38317.9903	44444
2943					0.239	00001	1.20	38317.9994	44444
2944	4.691	-0.128	-0.344	0.007	-0.102	11111	1.97	38415.8358	44444
2944	4.739	-0.106	-0.340	0.000	0.000	11100	2.01	38439.7780	44400
2944	4.674	-0.095	-0.360	0.000	0.000	11100	1.90	38440.7495	44400
2946	4.956	0.126	0.071	0.188	0.061	11111	1.13	38085.7359	44444
2946	5.014	0.060	0.103		0.020	11101	1.26	38393.9636	33333
2946	4.996	0.063	0.081	0.171	0.043	11111	1.12	38403.8306	44444
2948	3.830	-0.173	-0.566	-0.043	-0.160	11111	2.13	38415.8487	44444
2948	3.793	-0.215	-0.547	-0.051	-0.159	11111	2.29	38461.7399	22222
2948	3.788	-0.176	-0.577	-0.030	-0.157	11111	1.96	38464.6775	44444
2970	3.937	1.004	0.887	0.775	0.538	11111	1.37	38108.6635	44444
2970	3.958	1.033	0.870	0.769	0.526	11111	1.36	38410.8325	44444
2970	3.898	1.028	0.871	0.770	0.494	11111	1.42	38424.8198	44444
2970	3.915	1.021	0.873	0.770	0.517	11111	1.34	38431.7606	44444
2973	4.264	1.126	0.976	0.938	0.578	11111	1.20	38080.8208	44444
2973	4.284	1.110	0.974		0.591	11101	1.24	38393.9733	33333
2973	0.000	0.000	0.000	-0.014	0.581	00001	1.03	38397.8849	44444
2973	4.323	1.118	0.973	0.863	0.587	11111	1.33	38521.6401	44444
2973	4.274	1.109	0.961	0.944	0.594	11111	1.02	38706.0369	44444
2974	6.612	1.058	0.877	0.954	0.650	11111	2.28	38722.9376	22222
2974	6.516	1.286	0.767	0.808	0.697	11111	2.32	38723.9219	44444
2974	6.547	1.190	0.865	0.847	0.666	11111	2.26	38784.7883	44444
2985	3.580	0.912	0.689	0.731	0.422	11111	1.01	38089.6989	22222
2985	3.559	0.910	0.717	0.686	0.447	11111	1.01	38098.6760	44444
2985	3.599	0.917	0.725	0.000	0.000	11100	1.07	38393.7944	33333
2985	3.548	0.916	0.688	0.000	0.000	11100	1.06	38396.7947	44444
2985	3.533	0.935	0.706	0.000	0.000	11100	1.35	38396.9804	44444
2985	3.591	0.932	0.708	0.744	0.466	11111	2.26	38399.6362	21211
2985	3.561	0.929	0.716	0.707	0.458	11111	1.20	38443.8221	44444
2985	3.558	0.926	0.678	0.695	0.484	11111	1.18	38448.8041	44444
2990	1.156	1.025	0.889	0.760	0.549	11111	1.09	38088.7667	22222
2990	1.184	0.990	0.856	0.000	0.000	11100	1.13	38393.7675	33333
2990	1.091	0.997	0.827	0.000	0.000	11100	1.11	38396.7680	44444
2990	1.073	1.006	0.855	0.000	0.000	11100	1.12	38396.9344	44444
2990	1.138	0.994	0.900	0.781	0.432	11111	1.00	38403.8397	44444
2990	1.152	1.000	0.892	0.738	0.498	11111	1.03	38410.8519	44444
2990	1.118	0.984	0.864	0.724	0.527	11111	1.08	38431.8247	44444
2993	4.622	1.643	2.010	1.268	0.948	11111	2.33	38415.8611	44444
2993	4.578	1.633	1.970	1.302	0.959	11111	2.06	38431.7707	44444
2993	4.562	1.604	1.963	1.386	0.929	11111	2.20	38464.7124	44444
2996	3.989	0.181	-0.057	0.264	0.212	11111	2.46	38415.8690	44444
2996	3.950	0.177	-0.037	0.246	0.232	11111	2.13	38431.7813	44444
2996	3.919	0.174	-0.045	0.307	0.228	11111	2.30	38464.7203	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3003	4.851	1.470	1.775	1.138	0.820	11111	1.04	38339.9775	44444
3003	4.862	1.484	1.788	1.166	0.834	11111	1.10	38343.9322	44444
3003	4.895	1.458	1.753	1.652	0.855	11101	1.38	38393.9852	33333
3003	4.812	1.457	1.774	1.131	0.824	11111	1.03	38397.8625	44444
3034	4.593	-0.053	-1.020	0.121	-0.029	11111	1.94	38425.8012	44444
3034	4.496	-0.047	-1.021	0.000	0.000	11100	2.03	38439.7819	44400
3034	4.469	-0.063	-1.005	0.000	0.000	11100	1.92	38440.7536	44400
3045	3.387	1.255	1.144	0.852	0.556	11111	1.94	38425.8152	44444
3045	3.347	1.247	1.235	0.000	0.000	11100	1.99	38439.7860	44400
3045	3.318	1.245	1.150	0.000	0.000	11100	1.88	38440.7576	44400
3067	4.986	0.055	0.076	0.127	0.038	11111	1.09	38131.6533	44444
3067	4.979	0.110	0.120	0.668	0.024	11101	1.33	38393.9942	33333
3067	5.004	0.101	0.161	0.131	0.076	11111	1.03	38410.8599	44444
3080	3.728	1.028	0.648	0.815	0.530	11111	4.22	38095.7490	44444
3080	3.722	1.073	0.831	0.828	0.584	11111	3.37	38103.6664	44444
3080	3.732	1.036	0.759	1.024	0.473	11111	3.39	38113.6451	44444
3102	4.172	0.691	0.403			11100	1.75	38063.7663	11212
3102	4.186	0.690	0.468	0.557	0.318	11111	2.01	38107.7183	34444
3102	0.000	0.739	0.000	-0.014	0.000	01000	1.75	38400.8472	44444
3102	4.201	0.724	0.429	0.585	0.375	11111	1.75	38400.8539	44444
3102	4.246	0.713	0.461	0.000	0.000	11100	1.88	38439.7902	44400
3102	4.206	0.721	0.437	0.000	0.000	11100	1.78	38440.7611	44400
3131	4.623	0.071	0.015	0.139	0.086	11111	2.15	38103.7674	44444
3131	4.627	0.078	0.086	0.142	0.051	11111	1.58	38400.8615	44444
3131	4.589	0.093	0.090	0.136	0.053	11111	1.66	38425.8241	44444
3131	4.557	0.085	0.079	0.171	0.077	11111	1.78	38430.8343	44444
3141	4.714	1.473	1.751	1.201	0.865	11111	1.28	38067.8161	44444
3141	4.698	1.505	1.800	1.179	0.822	11111	1.26	38410.8683	44444
3141	4.638	1.492	1.772	1.152	0.812	11111	1.34	38411.8915	44444
3141	4.625	1.473	1.769	1.157	0.820	11111	1.25	38424.8286	44444
3145	4.370	1.268	1.276	0.994	0.668	11111	1.27	38083.7870	44444
3145	4.429	1.212	1.306	1.045	0.667	11111	1.28	38131.6593	44444
3145	4.348	1.241	1.339	0.984	0.652	11111	1.44	38456.7996	44444
3145	4.331	1.256	1.295	0.944	0.672	11111	1.26	38461.7503	22222
3165	2.227	-0.314	-1.024	0.013	-0.180	11111	2.99	37692.7810	22222
3165	2.295	-0.331	-1.159	-0.113	-0.261	11111	4.04	38095.7558	44444
3165	2.198	-0.228	-0.968	-0.194	-0.146	11111	3.27	38103.6741	44444
3165	2.295	-0.313	-1.072	0.142	-0.284	11101	3.29	38113.6546	44444
3173	4.806	0.084	-0.062	0.127	0.014	11111	1.07	38085.7446	44444
3173	4.866	0.021	-0.013	0.109	0.008	11111	1.06	38108.6556	44444
3173	4.832	0.056	0.070	0.079	-0.002	11111	1.06	38404.8450	44444
3185	2.805	0.450	0.173	0.388	0.194	11111	2.64	38103.7759	44444
3185	2.826	0.424			0.225	11001	2.91	38153.6505	44444
3185	2.819	0.440	0.198	0.327	0.198	11111	1.87	38368.9071	44444
3185	2.834	0.432	0.216	0.348	0.212	11111	1.86	38404.8729	44444
3188	4.315	1.016	0.702	0.737	0.452	11111	1.68	38091.8185	12222
3188	4.362	0.961	0.706	0.778	0.461	11111	1.50	38148.6409	44444
3188	4.316	0.947	0.751	0.722	0.442	11111	1.45	38456.7902	44444
3188	4.294	0.977	0.696	0.698	0.466	11111	1.37	38461.7597	22222
3192	4.397	-0.201	0.000	-0.031	-0.110	11011	2.37	38103.7837	44444
3192	4.386	-0.102	-0.596	0.049	-0.122	11111	2.17	38148.6487	44444
3192	4.378	-0.162	-0.597	-0.076	-0.169	11111	1.62	38368.9250	44444
3192	4.424	-0.145	-0.592	-0.040	-0.134	11111	1.67	38404.8814	44444
3211	4.739	0.941	0.710	0.788	0.454	11111	1.79	38080.8282	44444
3211	4.716	0.984	0.722	0.674	0.499	11111	2.15	38153.6578	44444
3211	4.699	0.945	0.877	0.713	0.491	11111	1.58	38383.9696	44444
3249	3.525	1.495	1.784	1.147	0.757	11111	1.60	37565.9864	22222
3249	3.522	1.479	1.764	0.090	-0.040	11100	2.81	37597.8410	22222
3249	3.516	1.488	1.781	1.095	0.822	11111	2.34	37668.6617	22222
3249	3.520	1.480	1.780	1.130	0.780	11111	1.09	38063.7796	11212
3249	3.522	1.480	1.780	1.130	0.780	11111	1.13	38064.7321	12222
3249	3.530	1.470	1.735	1.155	0.790	11111	1.09	38067.7759	44444
3249	3.520	1.480	1.780	1.130	0.780	11111	1.09	38074.7457	11111
3249	3.520	1.480	1.780	1.130	0.780	11111	1.10	38077.7173	11111
3249	3.518	1.480	1.780	1.130	0.780	11111	1.49	38078.8669	12222
3249	3.536	1.480	1.775	1.163	0.773	11111	1.09	38080.7384	44444
3249	3.526	1.513	1.739	1.078	0.802	11111	1.10	38082.7071	44444
3249	3.528	1.512	1.752	1.131	0.797	11111	2.60	38082.9221	44444
3249	3.516	1.490	1.766	1.116	0.789	11111	1.10	38083.7512	44444
3249	3.511	1.501	1.748	1.118	0.779	11111	1.09	38085.7183	44444
3249	3.525	1.459	1.766	1.106	0.767	11111	1.21	38086.6430	22222
3249	3.522	1.483	1.765	1.120	0.804	11111	1.34	38086.8233	22222
3249	3.570	1.492	1.758	1.104	0.817	11111	1.09	38088.7195	22222
3249	3.504	1.490	1.762	1.074	0.801	11111	1.10	38089.7392	22222
3249	3.526	1.480	1.781	1.130	0.779	11111	1.15	38091.7616	12222
3249	3.520	1.480	1.780	1.130	0.780	11111	1.09	38093.6946	44444
3249	3.524	1.458	1.743	1.108	0.778	11111	1.13	38095.7413	44444
3249	3.523	1.480	1.780	1.130	0.780	11111	1.66	38096.8359	12222
3249	3.520	1.479	1.758	1.107	0.788	11111	1.09	38098.6827	44444
3249	3.531	1.476	1.680	1.133	0.796	11111	1.09	38103.6817	44444
3249	3.508	1.488	1.766	1.130	0.780	11111	1.12	38107.6997	34444
3249	3.524	1.477	1.785	1.130	0.780	11111	2.16	38107.8372	34444
3249	3.541	1.469	1.750	1.125	0.788	11111	1.09	38108.6702	44444
3249	3.503	1.494	1.757	1.127	0.744	11111	2.34	38108.8422	44444
3249	3.519	1.490	1.767	1.130	0.780	11111	1.09	38109.6737	44444
3249	3.532	1.503	1.753	1.102	0.776	11111	1.09	38112.6345	44444
3249	3.535	1.452	1.764	1.145	0.780	11111	1.10	38113.6720	44444
3249	3.549	1.468	1.742	1.167	0.779	11111	1.15	38116.6937	22222
3249	3.527	1.469	1.773	1.069	0.792	11111	1.09	38131.6148	44444
3249	3.528	1.471	1.755	1.188	0.767	11111	2.30	38131.7780	44444
3249	3.558	1.460	1.797	1.066	0.800	11111	1.12	38136.6214	44444
3249	3.546	1.460	1.801	1.160	0.731	11111	1.18	38136.6493	44444
3249	3.553	1.485	1.746	1.241	0.746	11111	2.58	38136.7740	44444
3249	3.528	1.501	1.771	1.146	0.784	11111	1.85	38139.7326	44444
3249	3.549	1.435	1.775	1.209	0.746	11111	2.61	38139.7669	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3249	3.520	1.480	1.780	1.130	0.780	11111	1.46	38141.6921	11111
3249	3.548	1.494	1.772	1.137	0.768	11111	1.15	38142.6217	44444
3249	3.539	1.491	1.747	1.171	0.784	11111	2.21	38142.7442	44444
3249	3.526	1.479	1.758	1.138	0.745	11111	1.13	38143.6118	44444
3249	3.546	1.491	1.741	1.240	0.737	11111	2.25	38143.7432	44444
3249	3.563	1.426	1.776	1.097	0.796	11111	1.16	38147.6132	44444
3249	3.529	1.505	1.752	1.112	0.752	11111	1.25	38147.6390	44444
3249	3.501	1.505	1.755	1.128	0.765	11111	2.94	38147.7538	44444
3249	3.553	1.457	1.763	1.155	0.776	11111	1.19	38148.6216	44444
3249	3.525	1.472	1.785	1.083	0.784	11111	1.32	38152.6401	44444
3249	3.516	1.508	1.770	1.101	0.791	11111	2.96	38153.7378	44444
3249	3.535	1.519	1.731	1.151	0.775	11111	1.25	38154.6199	44444
3249	3.534	1.478	1.744	1.165	0.769	11111	2.31	38154.7155	44444
3249	3.510	1.489	1.747	1.050	0.805	11111	1.25	38155.6185	44444
3249	3.535	1.484	1.762	1.171	0.768	11111	2.41	38155.7165	44444
3249	3.511	1.491	1.830	0.000	0.000	11100	1.85	38165.6319	22200
3249	3.580	1.473	1.665	0.854	0.736	11111	2.39	38176.6585	44444
3249	3.538	1.494	1.742	1.081	0.778	11111	2.49	38178.6563	44444
3249	3.540	1.491	1.750	1.136	0.788	11111	1.96	38179.6306	44444
3249	3.542	1.511	1.732	1.119	0.768	11111	2.36	38180.6462	44444
3249	3.524	1.475	1.761	1.108	0.775	11111	2.29	38310.9243	44444
3249	3.514	1.472	1.740	1.124	0.792	11111	1.65	38314.9513	22222
3249	3.564	1.481	1.791	1.116	0.811	11111	1.88	38315.9315	44444
3249	3.529	1.496	1.787	1.134	0.813	11111	1.33	38316.9863	22221
3249	3.492	1.480	1.761	1.105	0.781	11111	1.15	38325.0121	44444
3249	3.539	1.476	1.779	1.157	0.786	11111	1.22	38325.9848	22222
3249	3.514	1.495	1.743	1.113	0.777	11111	1.37	38327.9495	22222
3249	3.544	1.489	1.818	1.153	0.795	11111	1.10	38328.0311	22222
3249	3.540	1.500	1.776	1.116	0.800	11111	1.11	38329.0194	44444
3249	3.531	1.475	1.765	1.136	0.788	11111	1.12	38330.0138	44444
3249	3.517	1.508	1.790	1.124	0.768	11111	1.09	38340.0169	44444
3249	3.511	1.485	1.767	1.122	0.775	11111	2.57	38343.8243	44444
3249	3.529	1.492	1.793	1.135	0.778	11111	1.20	38343.9414	44444
3249	3.542	1.483	1.806	1.145	0.792	11111	1.45	38345.8881	44444
3249	3.528	1.490	1.781	1.133	0.781	11111	1.09	38346.0027	44444
3249	3.522	1.503	1.741	1.120	0.809	11111	1.10	38357.0080	44444
3249	3.521	1.482	1.766	1.118	0.779	11111	2.15	38357.8022	44444
3249	0.000	0.000	0.000	0.090	0.806	00001	1.09	38357.9874	44444
3249	3.510	1.490	1.799	1.120	0.778	11111	1.11	38361.0023	44444
3249	3.519	1.481	1.778	1.133	0.780	11111	1.09	38361.9644	44444
3249	3.527	1.481	1.748	1.138	0.778	11111	2.42	38365.7691	44444
3249	3.517	1.485	1.775	1.126	0.783	11111	1.09	38366.9629	44444
3249	3.509	1.486	1.768	1.126	0.788	11111	2.66	38367.7559	44444
3249	3.465	1.489	1.804	1.085	0.774	11111	1.10	38367.9238	44444
3249	3.508	1.483	1.768	1.116	0.769	11111	2.81	38368.7492	44444
3249	3.503	1.488	1.775	1.119	0.797	11111	1.12	38369.9022	44444
3249	3.501	1.488	1.777	1.114	0.790	11111	1.09	38370.9269	44444
3249	3.519	1.479	1.781	1.130	0.779	11111	1.10	38376.9530	44444
3249	3.491	1.488	1.774	1.086	0.801	11111	1.12	38377.9600	44444
3249	3.491	1.480	1.758	1.106	0.791	11111	1.09	38378.9183	44444
3249	3.483	1.484	1.776	1.104	0.782	11111	1.12	38379.8780	44444
3249	3.620	1.528	1.881	1.181	0.783	11111	1.66	38380.7708	44444
3249	3.481	1.484	1.741	1.094	0.794	11111	1.09	38380.9264	44444
3249	3.527	1.483	1.761	1.138	0.779	11111	1.90	38381.7501	44444
3249	3.517	1.490	1.787	1.090	0.785	11111	1.09	38381.9263	44444
3249	3.533	1.485	1.785	1.109	0.773	11111	1.10	38382.8793	22222
3249	3.527	1.495	1.743	1.132	0.778	11111	1.54	38383.7737	44444
3249	3.473	1.471	1.783	1.098	0.777	11111	1.11	38383.9370	44444
3249	3.538	1.473	1.780	1.113	0.775	11111	1.28	38385.8064	44444
3249	3.533	1.479	1.774	1.125	0.774	11111	1.11	38386.8656	44444
3249	3.536	1.501	1.746	1.136	0.781	11111	2.18	38387.7196	44444
3249	3.502	1.485	1.769	1.112	0.804	11111	1.10	38387.9155	44444
3249	3.521	1.470	1.801	1.104	0.785	11111	1.18	38390.9521	44444
3249	3.515	1.487	1.762	1.139	0.771	11111	1.84	38391.0442	44444
3249	3.563	1.480	1.769	1.160	0.790	11111	2.13	38396.6962	44444
3249	3.484	1.485	1.788	1.136	0.799	11111	1.09	38396.8843	44444
3249	3.525	1.479	1.788	1.149	0.776	11111	2.22	38397.0484	44444
3249	3.548	1.472	1.768	1.144	0.775	11111	2.33	38397.6852	44444
3249	3.479	1.480	1.791	1.100	0.781	11111	1.09	38397.8710	44444
3249	3.531	1.480	1.742	1.136	0.780	11111	1.88	38398.7047	44444
3249	3.525	1.517	1.731	-0.014	0.000	11100	1.99	38400.6926	44444
3249	3.543	1.477	1.733	5.756	0.000	11100	1.09	38400.8684	44444
3249	0.000	0.000	0.000	-0.014	0.795	00001	1.09	38400.8719	44444
3249	3.544	1.491	1.748	1.138	0.790	11111	2.73	38403.6558	44444
3249	3.521	1.470	1.741	1.130	0.783	11111	1.09	38403.8487	44444
3249	3.533	1.471	1.772	1.129	0.769	11111	2.53	38404.6588	44444
3249	3.526	1.489	1.785	1.131	0.780	11111	1.09	38404.8636	44444
3249	3.551	1.524	1.816	1.136	0.788	11111	2.31	38408.6559	44444
3249	3.502	1.455	1.745	1.123	0.806	11111	1.13	38408.8861	44444
3249	3.537	1.496	1.756	1.123	0.805	11111	1.09	38410.8441	44444
3249	3.533	1.481	1.771	1.134	0.785	11111	2.15	38411.6544	44444
3249	3.520	1.474	1.770	1.140	0.797	11111	1.09	38411.8390	44444
3249	3.545	1.470	1.755	1.108	0.781	11111	1.12	38414.8626	22222
3249	3.539	1.483	1.746	1.153	0.793	11111	1.17	38415.8825	44444
3249	3.500	1.463	1.789	1.092	0.794	11111	1.20	38419.8795	44444
3249	3.477	1.469	1.791	1.090	0.788	11111	1.09	38420.8235	44444
3249	3.514	1.474	1.767	1.114	0.786	11111	2.35	38420.9880	44444
3249	3.553	1.481	1.792	1.130	0.808	11111	1.09	38425.7845	44444
3249	3.485	1.495	1.773	1.132	0.792	11111	2.26	38425.9708	44444
3249	3.511	1.480	1.781	1.134	0.777	11111	1.10	38430.8003	44444
3249	3.579	1.485	1.776	1.181	0.779	11111	2.17	38431.5992	44444
3249	3.509	1.474	1.792	1.113	0.788	11111	1.10	38431.7506	44444
3249	3.485	1.476	1.766	1.086	0.780	11111	2.50	38431.9633	44444
3249	3.527	1.469	1.785	1.100	0.777	11111	1.09	38432.7665	44444
3249	3.489	1.483	1.787	1.102	0.766	11111	2.62	38432.9643	44444
3249	3.549	1.468	1.780	1.078	0.762	11111	1.09	38438.7647	44444
3249	3.554	1.511	1.737	0.000	0.000	11100	1.09	38438.7729	44400
3249	3.543	1.460	1.793	1.089	0.796	11111	1.19	38438.8253	44444
3249	3.508	1.469	1.776	1.109	0.780	11111	2.57	38438.9463	44444
3249	3.541	1.477	1.739	0.000	0.000	11100	2.16	38439.5778	44400
3249	3.483	1.483	1.794	1.093	0.782	11111	1.09	38439.7498	44444
3249	3.539	1.510	1.759	0.000	0.000	11100	1.14	38439.8035	44400
3249	3.520	1.472	1.801	1.112	0.774	11111	1.09	38440.7333	44444
3249	3.525	1.488	1.738	0.000	0.000	11100	1.09	38440.7674	44400
3249	3.515	1.478	1.763	0.000	0.000	11100	1.09	38441.7472	44400
3249	3.482	1.492	1.784	1.109	0.781	11111	1.09	38441.7493	44444
3249	3.488	1.473	1.791	1.121	0.780	11111	1.14	38441.8007	44444
3249	3.511	1.471	1.784	1.088	0.786	11111	1.11	38443.7741	44444
3249	3.520	1.479	1.773	0.000	0.000	11100	1.78	38443.8952	44400
3249	3.521	1.477	1.780	0.000	0.000	11100	1.12	38444.7785	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3249	3.497	1.496	1.774	1.120	0.781	11111	2.20	38444.9163	44444
3249	3.508	1.447	1.785	1.062	0.782	11111	1.17	38446.7978	44444
3249	3.510	1.475	1.766	1.104	0.783	11111	2.37	38446.9178	44444
3249	3.515	1.479	1.795	1.100	0.768	11111	1.10	38448.7082	44444
3249	3.502	1.473	1.781	1.114	0.790	11111	1.14	38448.7800	44444
3249	3.561	1.464	1.826	1.100	0.786	11111	1.10	38449.7472	44444
3249	3.496	1.461	1.781	1.090	0.787	11111	2.36	38449.9093	44444
3249	3.520	1.480	1.780	0.000	0.000	11100	1.10	38450.7437	44400
3249	3.522	1.459	1.802	1.090	0.784	11111	1.11	38450.7563	44444
3249	3.521	1.456	1.799	1.134	0.782	11111	1.10	38451.6959	44444
3249	3.509	1.470	1.776	0.000	0.000	11100	1.09	38451.7270	44400
3249	3.535	1.481	1.763	0.000	0.000	11100	1.18	38451.7859	44400
3249	3.550	1.456	1.800	1.107	0.791	11111	1.09	38452.7373	44444
3249	3.517	1.481	1.733	0.000	0.000	11100	1.13	38452.7627	22200
3249	3.535	1.469	1.780	1.131	0.775	11111	2.78	38452.9142	44444
3249	3.519	1.469	1.795	1.094	0.779	11111	1.09	38453.7234	44444
3249	3.590	1.453	1.963	0.000	0.000	11100	1.10	38453.7381	44400
3249	3.514	1.495	1.778	1.125	0.795	11111	2.35	38453.8981	44444
3249	3.773	1.521	1.637	0.000	0.000	11100	1.09	38456.6962	44400
3249	0.000	0.000	0.000	1.102	0.787	00011	1.13	38456.7506	44444
3249	3.515	1.493	1.740	0.000	0.000	11100	1.10	38459.6750	44400
3249	3.509	1.488	1.775	1.131	0.782	11111	1.14	38459.7472	22222
3249	3.521	1.481	1.776	1.090	0.794	11111	1.09	38460.6902	22222
3249	3.522	1.479	1.785	1.151	0.769	11111	1.35	38460.8017	22222
3249	3.482	1.476	1.760	1.135	0.779	11111	1.09	38461.6998	22222
3249	3.549	1.487	1.766	1.109	0.777	11111	1.23	38463.7686	22222
3249	3.920	1.495	1.737	0.000	0.000	01100	1.23	38463.7688	22200
3249	3.521	1.485	1.772	1.116	0.774	11111	1.13	38464.7295	44444
3249	3.540	1.477	1.775	1.060	0.798	11111	1.09	38466.6864	44444
3249	3.534	1.472	1.767	0.000	0.000	11100	1.23	38466.7618	22200
3249	3.509	1.488	1.758	1.147	0.768	11111	2.73	38466.8747	44444
3249	3.528	1.461	1.797	1.107	0.772	11111	1.11	38469.7071	44444
3249	3.512	1.476	1.748	0.000	0.000	11100	1.10	38473.6874	44400
3249	3.520	1.480	1.780	1.130	0.780	11111	1.13	38473.7060	44444
3249	3.534	1.470	1.758	0.000	0.000	11100	1.20	38473.7319	44400
3249	3.504	1.485	1.762	0.000	0.000	11100	1.17	38474.5934	44400
3249	3.542	1.470	1.756	0.000	0.000	11100	1.10	38474.6778	44400
3249	3.548	1.479	1.784	1.072	0.777	11111	1.12	38474.6976	44444
3249	3.493	1.471	1.759	0.000	0.000	11100	1.14	38475.6049	44400
3249	3.508	1.494	1.773	1.101	0.775	11111	1.09	38475.6561	44444
3249	3.523	1.487	1.778	1.111	0.783	11111	1.39	38476.7644	22222
3249	3.506	1.461	1.768	1.110	0.783	11111	1.09	38480.6598	44444
3249	3.515	1.661	1.877	1.073	0.751	10111	1.18	38481.7044	33433
3249	3.520	1.480	1.780	1.130	0.780	11111	1.09	38482.6249	44444
3249	3.521	1.478	1.786	1.130	0.777	11111	1.09	38483.6381	22222
3249	4.879	1.464	1.760	1.094	0.765	01111	1.13	38496.6439	44444
3249	3.517	1.492	1.746	1.109	0.782	11111	2.69	38496.7918	44444
3249	3.518	1.472	1.776	1.103	0.777	11111	1.27	38497.6851	22222
3249	3.555	1.497	1.784	1.138	0.782	11111	1.09	38498.5988	44444
3249	3.482	1.475	1.775	1.115	0.781	11111	1.20	38498.6644	44444
3249	3.531	1.475	1.784	1.117	0.785	11111	1.10	38499.6143	44444
3249	3.532	1.480	1.748	1.081	0.791	11111	1.11	38506.6050	22222
3249	3.523	1.467	1.788	1.099	0.775	11111	1.25	38509.6492	44444
3249	3.544	1.470	1.773	1.102	0.776	11111	1.31	38510.6584	22222
3249	3.572	1.478	1.759	1.059	0.805	11111	1.16	38511.6159	44444
3249	3.755	1.424	1.778	1.225	0.740	11111	1.16	38512.6124	22222
3249	3.601	1.463	1.762	1.119	0.770	11111	1.18	38513.6160	22222
3249	3.541	1.475	1.763	1.009	0.835	11111	1.19	38515.6169	44444
3249	3.519	1.473	1.735	1.108	0.769	11111	1.94	38515.7095	44444
3249	3.539	1.457	1.766	1.091	0.772	11111	1.25	38518.6224	22222
3249	3.536	1.479	1.761	1.105	0.779	11111	1.88	38521.6888	44444
3249	3.600	1.474	1.780	0.000	0.000	11100	1.33	38524.6227	22200
3249	3.520	1.480	1.780	0.000	0.000	11100	1.57	38525.6524	22200
3249	3.521	1.479	1.782	1.131	0.780	11111	1.41	38526.6308	22222
3249	3.515	1.484	1.758	0.000	0.000	11100	1.40	38528.6243	44400
3249	3.564	1.458	1.783	1.101	0.789	11111	1.69	38532.6452	22222
3249	3.506	1.459	1.766	1.070	0.776	11111	1.64	38533.6378	44444
3249	3.522	1.481	1.762	1.110	0.787	11111	1.81	38534.6491	44444
3249	3.544	1.496	1.771	1.119	0.777	11111	2.12	38676.9293	44444
3249	3.525	1.494	1.763	1.111	0.763	11111	1.91	38680.9300	44444
3249	3.501	1.480	1.724	1.133	0.769	11111	1.96	38682.9216	44444
3249	3.533	1.501	1.781	1.109	0.800	11111	1.81	38700.8824	44444
3249	3.533	1.502	1.771	0.000	0.000	11100	1.26	38703.9409	44400
3249	3.512	1.493	1.769	1.140	0.790	11111	1.09	38706.0279	44444
3249	3.516	1.491	1.754	1.156	0.788	11111	1.10	38712.0362	44444
3249	3.518	1.487	1.761	1.122	0.780	11111	1.09	38713.0063	44444
3249	3.500	1.491	1.759	1.111	0.767	11111	1.10	38720.0122	44444
3249	3.567	1.459	1.833	1.120	0.802	11111	1.11	38720.9485	44444
3249	3.509	1.488	1.765	1.099	0.780	11111	1.10	38722.9523	22222
3249	3.535	1.489	1.779	1.117	0.779	11111	1.09	38728.9752	44444
3249	3.499	1.484	1.771	1.064	0.802	11111	1.09	38729.9660	44444
3249	3.611	1.479	1.688	7.451	0.774	11101	2.07	38730.7847	22222
3249	3.518	1.489	1.744	0.000	0.000	11100	1.50	38738.8067	22200
3249	3.498	1.512	1.724	0.000	0.000	11100	1.54	38740.7969	22200
3249	3.517	1.513	1.765	0.000	0.000	11100	1.26	38741.8361	44400
3249	3.567	1.458	1.809	0.000	0.000	11100	1.09	38741.9227	44400
3249	3.495	1.517	1.721	0.000	0.000	11100	1.30	38742.8251	22200
3249	3.533	1.473	1.761	0.000	0.000	11100	1.19	38744.8482	22200
3249	3.508	1.505	1.728	0.000	0.000	11100	1.09	38771.8529	44400
3249	3.520	1.480	1.780	1.130	0.780	11111	1.13	38782.7680	22222
3249	3.518	1.477	1.778	1.130	0.780	11111	1.10	38783.8370	44444
3249	3.553	1.498	1.887	1.139	0.782	11111	1.78	38784.6547	44444
3249	3.502	1.473	1.734	1.105	0.826	11111	1.09	38784.8083	44444
3249	3.510	1.483	1.809	1.056	0.762	11111	1.29	38787.8942	44444
3249	3.560	1.467	1.780	0.000	0.000	11100	1.09	38809.7548	44400
3249	3.527	1.489	1.782	1.103	0.780	11111	1.09	38818.6956	22222
3249	3.508	1.474	1.781	1.108	0.771	11111	1.10	38820.7394	22222
3249	3.520	1.481	1.803	1.100	0.779	11111	1.43	38822.8229	44444
3249	3.540	1.492	1.777	1.119	0.776	11111	1.21	38824.7760	44444
3249	3.529	1.489	1.782	1.081	0.790	11111	1.16	38825.7569	44444
3249	3.546	1.480	1.788	1.096	0.800	11111	1.20	38826.7671	44444
3249	3.532	1.464	1.781	0.000	0.000	11100	1.14	38833.7236	22200
3249	3.530	1.481	1.784	1.079	0.790	11111	1.21	38845.7180	44444
3249	3.528	1.479	1.782	1.074	0.787	11111	1.21	38846.7138	44444
3249	3.545	1.457	1.803	1.099	0.787	11111	1.18	38849.6989	44444
3249	3.512	1.480	1.769	1.115	0.777	11111	1.26	38858.6940	22222
3249	3.519	1.477	1.772	0.000	0.000	11100	1.41	38862.7103	22200
3249	3.520	1.480	1.780	0.000	0.000	11100	1.12	38867.6244	22200
3249	3.524	1.464	1.777	1.116	0.780	11111	1.13	38872.6132	44444
3249	3.531	1.470	1.797	0.000	0.000	11100	1.53	38901.6189	22200

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3249	3.520	1.487	1.742	0.000	0.000	11100	2.45	39026.9576	44400
3249	3.499	1.489	1.742	1.078	0.834	11111	1.56	39032.9945	44444
3249	3.524	1.481	1.744	1.101	0.807	11111	1.34	39034.0217	44444
3249	3.515	1.495	1.750	1.117	0.793	11111	1.36	39035.0151	44444
3249	3.511	1.501	1.729	1.130	0.765	11111	1.30	39037.0205	44444
3249	3.516	1.482	1.762	1.130	0.773	11111	2.37	39041.9197	44444
3249	3.506	1.488	1.773	1.081	0.799	11111	1.29	39042.0096	44444
3249	3.540	1.487	1.787	1.103	0.770	11111	2.32	39042.9189	44444
3249	3.512	1.522	1.758	1.118	0.789	11111	1.37	39042.9914	44444
3249	3.524	1.488	1.743	1.130	0.776	11111	2.22	39045.9150	44444
3249	3.526	1.505	1.765	1.094	0.785	11111	1.11	39057.0258	44444
3249	3.523	1.510	1.762	1.101	0.793	11111	1.11	39058.0246	44444
3249	3.516	1.499	1.766	1.121	0.789	11111	1.12	39059.0189	44444
3249	3.528	1.502	1.774	1.120	0.793	11111	1.11	39060.0188	22222
3249	3.528	1.497	1.781	1.094	0.819	11111	1.10	39061.0278	44444
3249	3.536	1.505	1.757	1.111	0.807	11111	1.09	39062.0310	44444
3249	3.531	1.491	1.784	1.117	0.790	11111	1.10	39063.0197	44444
3249	3.501	1.484	1.770	1.083	0.790	11111	1.10	39064.0225	44444
3249	3.526	1.482	1.779	1.113	0.814	11111	1.11	39065.0083	44444
3249	3.523	1.500	1.756	1.137	0.771	11111	2.13	39066.8615	44444
3249	3.517	1.503	1.787	1.103	0.768	11111	1.09	39067.0305	44444
3249	3.521	1.484	1.778	1.099	0.800	11111	1.66	39093.8180	44444
3249	3.491	1.466	1.788	1.109	0.797	11111	1.86	39096.7946	44444
3249	3.619	1.511	1.772	1.101	0.822	11111	1.09	39096.9562	44444
3249	3.497	1.493	1.794	1.103	0.783	11111	1.11	39098.9783	44444
3249	3.508	1.494	1.797	1.112	0.810	11111	1.10	39129.8932	44444
3249	3.543	1.480	1.761	1.121	0.799	11111	2.98	38475.8564	44444
3275	4.273	1.508	1.911	1.175	0.905	11111	1.17	38143.6713	44444
3275	4.252	1.551	1.928	1.226	0.868	11111	1.04	38343.9822	44444
3275	4.256	1.562	1.898	1.209	0.859	11111	1.02	38382.9316	22222
3275	4.228	1.561	1.910	1.192	0.877	11111	1.06	38404.9071	44444
3314	0.	0.	0.	0.090	-0.099	00001	1.25	38060.7764	21200
3314	3.890	-0.003	-0.054	0.013	-0.027	11111	1.24	38089.7307	22222
3314	3.902	-0.055	-0.008	0.043	-0.049	11111	1.24	38098.6899	44444
3314	3.874	-0.067	-0.051	0.041	-0.090	11111	1.37	38131.6718	44444
3323	3.356	0.862	0.528	0.730	0.397	11111	1.14	38098.6983	44444
3323	3.375	0.847	0.486	0.648	0.441	11111	1.49	38153.7133	44444
3323	3.360	0.848	0.558	0.673	0.431	11111	1.15	38343.9912	44444
3403	4.619	1.188	1.134	0.878	0.669	11111	1.19	38067.8193	44444
3403	4.646	1.136	1.155	0.891	0.596	11111	1.51	38153.7211	44444
3403	4.578	1.180	1.191	0.900	0.605	11111	1.18	38368.9408	44444
3410	4.166	-0.034	0.032	0.090	-0.040	11100	1.12	38063.8006	11212
3410	4.193	0.012	-0.016	0.066	0.017	11111	1.17	38088.7780	22222
3410	4.149	-0.012	0.015	0.046	0.012	11111	1.12	38098.7139	44444
3410	4.162	0.025	0.046	0.012	-0.008	11111	1.12	38382.9191	22222
3418	4.421	1.211	1.255	0.896	0.562	11111	1.20	38083.7949	44444
3418	4.473	1.179	1.263	0.905	0.545	11111	1.64	38153.6816	44444
3418	4.418	1.206	1.313	0.862	0.588	11111	1.16	38368.9335	44444
3441		1.103	1.020	0.847	0.503	01111	1.03	38064.7954	12222
3441	4.869	1.082	0.908	0.822	0.543	11111	1.50	38093.7220	44444
3441	4.876	1.055	0.957	0.747	0.540	11111	2.22	38153.6730	44444
3441	4.832	1.075	0.863	0.000	0.000	11100	1.53	38432.8206	44400
3441	4.960	1.052	0.886	0.000	0.000	11100	1.52	38438.7973	44400
3441	4.917	1.048	0.889	0.000	0.000	11100	1.52	38439.7944	44400
3449	4.667	0.002	0.015	0.083	0.027	11111	1.06	38085.7919	44444
3449	4.639	0.016	-0.062	0.062	-0.021	11111	1.53	38153.7062	44444
3449	4.667	0.028	0.001	0.063	-0.002	11111	1.02	38346.0258	44444
3449	4.669	0.018	0.066	0.049	-0.025	11111	1.02	38368.9481	44444
3454	4.300	-0.195	-0.719	0.090	-0.040	11100	2.57	37597.8757	22222
3454	4.304	-0.202	-0.733	-0.074	-0.115	11111	3.12	37668.6681	22222
3454	4.295	-0.163	-0.726	0.599	-0.211	11001	1.21	38059.7617	22211
3454	0.	0.	-0.740	0.090	-0.190	00101	1.14	38063.7931	11212
3454	4.298	-0.195	-0.740	-0.060	-0.190	11111	1.22	38064.7409	12222
3454	4.302	-0.212	-0.731	-0.022	-0.182	11111	1.14	38067.7839	44444
3454	4.304	-0.208	-0.728	-0.081	-0.186	11111	1.51	38078.8761	12222
3454	4.298	-0.182	-0.752	-0.039	-0.194	11111	2.00	38078.9162	12222
3454	4.283	-0.195	-0.734	-0.095	-0.183	11111	1.14	38080.7450	44444
3454	4.321	-0.195	-0.747	-0.013	-0.199	11111	2.01	38080.9112	44444
3454	4.310	-0.193	-0.730	-0.091	-0.201	11111	1.16	38082.7192	44444
3454	4.312	-0.209	-0.683	-0.070	-0.183	11111	2.76	38082.9350	44444
3454	4.294	-0.186	-0.748	-0.069	-0.207	11111	1.15	38083.7592	44444
3454	4.304	-0.204	-0.731	-0.055	-0.189	11111	1.15	38085.7265	44444
3454	4.302	-0.199	-0.750	-0.071	-0.188	11111	1.28	38086.8136	22222
3454	4.314	-0.159	-0.741	-0.118	-0.040	11110	1.14	38088.7329	22222
3454	4.280	-0.155	-0.751	-0.151	-0.162	11111	1.15	38089.7474	22222
3454	4.302	-0.188	-0.722	-0.057	-0.208	11111	1.19	38091.7695	12222
3454	4.300	-0.195	-0.740	-0.060	-0.190	11111	1.14	38093.7132	44444
3454	4.313	-0.212	-0.763	-0.059	-0.194	11111	1.20	38095.7661	44444
3454	4.297	-0.195	-0.740	-0.060	-0.190	11111	1.78	38096.8530	12222
3454	4.286	-0.177	-0.776	-0.074	-0.196	11111	1.14	38098.7052	44444
3454	4.286	-0.195	-0.775	-0.027	-0.174	11111	1.22	38103.7499	44444
3454	4.280	-0.183	-0.764	-0.060	-0.190	11111	1.16	38107.7089	34444
3454	4.312	-0.211	-0.746	-0.093	-0.193	11111	1.14	38108.6828	44444
3454	4.291	-0.196	-0.755	-0.060	-0.190	11111	1.15	38109.6877	44444
3454	4.292	-0.175	-0.757	-0.101	-0.175	11111	1.15	38112.6434	44444
3454	4.289	-0.174	-0.766	-0.032	-0.203	11111	1.15	38113.6801	44444
3454	4.324	-0.211	-0.743	-0.022	-0.166	11111	1.20	38116.7080	22222
3454	4.278	-0.183	-0.758	-0.048	-0.223	11111	1.14	38131.6237	44444
3454	4.286	-0.180	-0.736	0.042	-0.172	11111	2.56	38131.7953	44444
3454	4.300	-0.196	-0.740	-0.060	-0.190	11111	3.13	38135.7989	43411
3454	4.263	-0.214	-0.719	0.123	-0.040	11110	1.16	38136.6281	44444
3454	4.314	-0.213	-0.742	-0.054	-0.217	11111	1.18	38136.6406	44444
3454	4.306	-0.193	-0.751	-0.025	-0.174	11111	1.83	38139.7387	44444
3454	4.250	-0.165	-0.735	-0.094	-0.178	11111	2.59	38139.7745	44444
3454	4.286	-0.191	-0.748	-0.076	-0.206	11111	1.19	38142.6302	44444
3454	4.285	-0.177	-0.726	-0.088	-0.151	11111	2.28	38142.7549	44444
3454	4.283	-0.187	-0.745	-0.005	-0.230	11111	1.17	38143.6202	44444
3454	4.315	-0.216	-0.706	0.048	-0.202	11111	2.33	38143.7543	44444
3454	4.280	-0.172	-0.735	-0.021	-0.227	11111	1.27	38147.6462	44444
3454	4.305	-0.203	-0.722	-0.039	-0.183	11111	2.86	38147.7601	44444
3454	4.306	-0.193	-0.755	-0.007	-0.210	11111	1.23	38148.6313	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3454	0.	-0.191	-0.733	0.090	-0.040	01100	1.23	38152.6184	44444
3454	4.302	-0.200	0.	-0.042	-0.196	11011	1.27	38152.6314	44444
3454	4.300	-0.203	-0.711	-0.102	-0.193	11111	3.01	38152.7500	44444
3454	4.274	-0.243	-0.763	-0.004	-0.209	11111	2.95	38153.7458	44444
3454	4.294	-0.196	-0.742	-0.119	-0.203	11111	1.28	38154.6275	44444
3454	4.282	-0.194	-0.719	-0.088	-0.187	11111	3.12	38154.7470	44444
3454	4.279	-0.176	-0.776	-0.075	-0.209	11111	1.29	38155.6291	44444
3454	4.284	-0.142	-0.748	-0.009	-0.232	11111	2.46	38155.7264	44444
3454	4.300	-0.167	-0.569	0.000	0.000	11100	1.73	38165.6368	22200
3454	4.311	-0.185	-0.730	-0.354	-0.215	11111	2.36	38176.6654	44444
3454	4.291	-0.200	-0.707	-0.027	-0.193	11111	2.57	38178.6673	44444
3454	4.304	-0.200	-0.723	-0.044	-0.196	11111	2.02	38179.6414	44444
3454	4.310	-0.180	-0.724	-0.054	-0.190	11111	2.43	38180.6569	44444
3454	0.000	-0.183	0.000	0.090	-0.040	01000	2.35	38305.9646	44444
3454	4.315	-0.227	-0.721	-0.049	-0.156	11111	2.21	38305.9701	44444
3454	4.304	-0.189	-0.749	-0.058	-0.181	11111	1.39	38315.0138	22222
3454	4.314	-0.193	-0.747	-0.041	-0.170	11111	1.21	38324.0320	44444
3454	4.326	-0.204	-0.723	-0.038	-0.174	11111	1.33	38325.9964	22222
3454	4.297	-0.208	-0.747	-0.063	-0.178	11111	1.24	38328.0111	22222
3454	4.312	-0.191	-0.745	-0.058	-0.173	11111	1.19	38329.0300	44444
3454	4.275	-0.197	-0.735	-0.065	-0.194	11111	1.19	38330.0240	44444
3454	4.264	-0.179	-0.709	-0.089	-0.198	11111	1.81	38338.9029	22221
3454	4.313	-0.204	-0.725	-0.048	-0.183	11111	2.07	38343.8735	44444
3454	4.307	-0.207	-0.710	-0.053	-0.169	11111	1.64	38345.8980	44444
3454	4.292	-0.202	-0.777	4.810	-0.160	11001	1.15	38346.0113	44444
3454	4.299	-0.202	-0.778	-0.050	-0.167	11111	1.15	38357.0192	44444
3454	4.295	-0.191	-0.729	-0.053	-0.183	11111	2.47	38357.8181	44444
3454	4.289	-0.174	-0.773	-0.060	-0.178	11111	1.14	38357.9941	44444
3454	4.316	-0.207	-0.726	-0.065	-0.190	11111	1.23	38362.0457	44444
3454	4.328	-0.213	-0.749	-0.033	-0.183	11111	1.48	38365.8621	44444
3454	4.295	-0.193	-0.741	-0.064	-0.185	11111	1.99	38369.8065	44444
3454	4.300	-0.195	-0.745	-0.052	-0.193	11111	2.08	38370.7991	44444
3454	4.306	-0.197	-0.726	-0.070	-0.180	11111	1.16	38378.9658	44444
3454	4.307	-0.194	-0.749	-0.055	-0.189	11111	2.16	38379.7703	44444
3454	4.292	-0.197	-0.777	-0.050	-0.179	11111	1.22	38380.9901	44444
3454	4.312	-0.198	-0.736	-0.043	-0.186	11111	2.17	38381.7647	44444
3454	4.291	-0.188	-0.742	-0.095	-0.188	11111	1.14	38381.9384	44444
3454	4.315	-0.182	-0.740	-0.093	-0.194	11111	1.17	38382.8922	22222
3454	4.295	-0.193	-0.748	-0.101	-0.213	11111	1.15	38385.9410	44444
3454	4.284	-0.197	-0.737	-0.105	-0.200	11111	1.17	38386.9541	44444
3454	4.328	-0.194	-0.736	-0.068	-0.195	11111	2.44	38387.7371	44444
3454	4.283	-0.195	-0.739	-0.090	-0.190	11111	1.14	38387.9237	44444
3454	4.307	-0.198	-0.676	-0.068	-0.194	11111	1.14	38388.9168	44444
3454	4.297	-0.185	-0.746	-0.084	-0.203	11111	1.21	38390.9604	44444
3454	4.306	-0.202	-0.725	-0.061	-0.180	11111	1.89	38391.0547	44444
3454	4.300	-0.195	-0.740	-0.060	-0.190	11111	1.99	38393.7410	33333
3454	4.300	-0.195	-0.740	-0.060	-0.190	11111	1.14	38393.9054	33333
3454	4.323	-0.188	-0.750	-0.060	-0.194	11111	1.86	38397.7387	44444
3454	4.272	-0.182	-0.756	-0.059	-0.190	11111	1.14	38397.8775	44444
3454	4.311	-0.226	-0.740	-0.034	-0.187	11111	2.28	38398.7134	44444
3454	4.321	-0.205	-0.762	-0.053	-0.152	11111	2.38	38400.7038	44444
3454	4.301	-0.198	-0.756	-0.066	-0.184	11111	1.26	38404.9370	44444
3454	4.295	-0.163	-0.784	-0.066	-0.186	11111	2.33	38406.6893	43333
3454	4.304	-0.183	-0.761	-0.066	-0.187	11111	1.17	38406.8941	43333
3454	4.360	-0.131	-0.639	-0.062	-0.184	11111	2.54	38408.6764	44444
3454	4.284	-0.183	-0.757	-0.078	-0.194	11111	1.17	38408.8943	44444
3454	4.327	-0.207	-0.733	-0.051	-0.198	11111	2.07	38410.6905	44444
3454	4.283	-0.196	-0.726	-0.069	-0.195	11111	1.91	38411.6969	44444
3454	4.310	-0.192	-0.761	-0.030	-0.191	11111	1.14	38411.8571	44444
3454	4.298	-0.197	-0.735	-0.074	-0.203	11111	1.17	38414.8725	22222
3454	4.263	-0.185	-0.747	-0.062	-0.185	11111	1.17	38425.8471	44444
3454	4.301	-0.188	-0.755	-0.060	-0.174	11111	2.84	38425.9978	44444
3454	4.302	-0.209	-0.748	-0.061	-0.182	11111	1.14	38431.8017	44444
3454	4.288	-0.200	-0.745	-0.091	-0.204	11111	1.18	38432.8310	44444
3454	4.266	-0.229	-0.735	-0.095	-0.194	11111	2.74	38432.9760	44444
3454	4.286	-0.217	-0.726	-0.079	-0.181	11111	2.65	38438.9572	44444
3454	4.270	-0.208	-0.741	0.000	0.000	11100	2.07	38439.6110	44400
3454	4.272	-0.185	-0.772	0.000	0.000	11100	1.17	38439.8076	44400
3454	4.299	-0.200	-0.748	0.000	0.000	11100	2.03	38440.6107	44400
3454	4.281	-0.172	-0.754	0.000	0.000	11100	1.14	38440.7708	44400
3454	4.292	-0.214	-0.736	-0.078	-0.204	11111	1.16	38440.7974	44444
3454	4.291	-0.190	-0.762	0.000	0.000	11100	2.14	38441.6022	44400
3454	4.294	-0.198	-0.742	0.000	0.000	11100	1.15	38441.7507	44400
3454	4.284	-0.216	-0.731	-0.080	-0.185	11111	2.20	38444.9244	44444
3454	4.279	-0.189	-0.715	-0.116	-0.171	11111	2.44	38446.9283	44444
3454	4.303	-0.176	-0.760	-0.076	-0.221	11111	1.14	38449.7553	44444
3454	4.278	-0.229	-0.745	-0.103	-0.193	11111	2.39	38449.9184	44444
3454	4.300	-0.195	-0.740	0.000	0.000	11100	1.14	38450.7483	44400
3454	4.301	-0.203	-0.751	0.000	0.000	11100	1.14	38451.7316	44400
3454	4.289	-0.204	-0.738	-0.087	-0.205	11111	1.19	38451.7862	44444
3454	4.309	-0.197	-0.732	0.000	0.000	11100	1.18	38451.7802	44400
3454	4.286	-0.203	-0.738	-0.093	-0.198	11111	1.17	38452.7722	44444
3454	4.278	-0.176	-0.758	0.000	0.000	11100	1.15	38452.7574	22200
3454	4.287	-0.206	-0.755	-0.076	-0.172	11111	2.79	38452.9227	44444
3454	4.294	-0.179	-0.741	0.000	0.000	11100	1.15	38453.7563	44400
3454	4.295	-0.203	-0.723	-0.081	-0.214	11111	1.18	38453.7732	44444
3454	4.301	-0.202	-0.739	-0.094	-0.180	11111	2.43	38453.9088	44444
3454	4.303	-0.172	-0.748	0.000	0.000	11100	1.16	38456.6999	44400
3454	4.301	-0.202	-0.736	-0.061	-0.215	11111	1.17	38456.7584	44444
3454	4.308	-0.199	-0.767	0.000	0.000	11100	1.17	38459.6790	44400
3454	4.290	-0.176	-0.752	-0.065	-0.170	11111	1.19	38459.7635	22222
3454	4.345	-0.230	-0.707	-0.108	-0.236	11111	1.15	38460.7010	22222
3454	4.266	-0.195	-0.748	0.000	0.000	11100	1.16	38460.7403	44400
3454	4.299	-0.206	-0.745	-0.067	-0.179	11111	1.37	38460.8097	22222
3454	4.275	-0.205	-0.750	-0.083	-0.195	11111	1.14	38461.7104	22222
3454	4.295	-0.181	-0.745	-0.107	-0.151	11111	1.26	38463.7766	22222
3454	4.297	-0.203	-0.751	-0.096	-0.202	11111	1.17	38464.7384	44444
3454	4.318	-0.209	-0.748	0.000	0.000	11100	1.37	38464.7985	44400
3454	4.314	-0.180	-0.669	-0.091	-0.209	11111	1.14	38466.6966	44444
3454	4.300	-0.193	-0.741	0.000	0.000	11100	1.25	38466.7661	22200
3454	4.269	-0.189	-0.749	-0.083	-0.166	11111	2.65	38466.8806	44444
3454	4.296	-0.216	-0.752	0.000	0.000	11100	1.15	38473.6910	44400
3454	4.300	-0.195	-0.740	-0.060	-0.190	11111	1.18	38473.7219	44444
3454	4.306	-0.204	-0.757	0.000	0.000	11100	1.22	38473.7354	44400
3454	4.312	-0.197	-0.751	0.000	0.000	11100	1.14	38474.6808	44400
3454	4.299	-0.197	-0.740	-0.088	-0.191	11111	1.17	38474.7143	44444
3454	4.273	-0.200	-0.757	-0.094	-0.218	11111	1.14	38475.6696	44444
3454	4.294	-0.176	-0.743	-0.080	-0.195	11111	2.92	38475.8632	44444
3454	4.286	-0.192	-0.729	-0.088	-0.207	11111	1.41	38476.7722	22222
3454	4.328	-0.206	-0.735	-0.070	-0.198	11111	1.21	38481.7110	33433

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3454	4.300	-0.195	-0.740	-0.060	-0.190	11111	1.15	38482.6316	44444
3454	4.303	-0.195	-0.742	-0.090	-0.197	11111	1.14	38483.6503	22222
3454	5.607	-0.178	-0.767	-0.109	0.000	01110	1.17	38496.6514	44444
3454	4.298	-0.201	-0.717	-0.042	-0.194	11111	2.73	38496.8010	44444
3454	4.284	-0.211	-0.735	-0.120	-0.201	11111	1.22	38497.6715	22222
3454	4.337	-0.213	-0.736	-0.045	-0.182	11111	1.14	38498.6065	44444
3454	4.257	-0.190	-0.744	-0.071	-0.202	11111	1.23	38498.6722	44444
3454	4.295	-0.189	-0.725	-0.054	-0.193	11111	1.15	38499.6215	44444
3454	4.316	-0.222	-0.741	-0.085	-0.192	11111	1.35	38506.6804	22222
3454	4.302	-0.203	-0.730	-0.077	-0.192	11111	1.28	38509.6565	44444
3454	4.301	-0.199	-0.734	-0.110	-0.213	11111	1.34	38510.6664	22222
3454	4.333	-0.193	-0.743	-0.091	-0.201	11111	1.20	38511.6235	44444
3454	4.367	-0.192	-0.746	-0.086	-0.199	11111	1.23	38513.6297	22222
3454	4.284	-0.216	-0.732	-0.100	-0.189	11111	1.71	38513.7059	22222
3454	4.297	-0.182	-0.759	-0.119	-0.213	11111	1.23	38515.6247	44444
3454	4.290	-0.208	-0.666	5.870	-0.191	11001	1.72	38515.7007	44444
3454	4.297	-0.215	-0.730	-0.078	-0.201	11111	2.80	38521.7347	44444
3454	4.286	-0.200	-0.735	-0.086	-0.197	11111	2.18	38523.7075	44444
3454	4.373	-0.173	-0.735	0.000	0.000	11100	1.34	38524.6288	22200
3454	4.300	-0.195	-0.740	0.000	0.000	11100	1.37	38525.6306	22200
3454	4.329	-0.231	-0.706	-0.079	-0.195	11111	1.42	38526.6372	22222
3454	4.274	-0.196	-0.743	0.000	0.000	11100	1.40	38528.6293	44400
3454	4.323	-0.202	-0.743	-0.020	-0.193	11111	3.30	38528.7265	44444
3454	4.310	-0.186	-0.739	-0.096	-0.206	11111	1.54	38532.6365	22222
3454	4.283	-0.215	-0.735	-0.112	-0.207	11111	1.64	38533.6448	44444
3454	4.326	-0.192	-0.724	-0.042	-0.192	11111	1.94	38676.9687	44444
3454	4.313	-0.197	-0.739	-0.041	-0.185	11111	2.26	38680.9413	44444
3454	4.300	-0.199	-0.771	-0.045	-0.191	11111	2.19	38682.9388	44444
3454	4.282	-0.178	-0.778	-0.035	-0.175	11111	1.15	38706.0200	44444
3454	4.291	-0.170	-0.767	-0.067	-0.163	11111	1.15	38712.0448	44444
3454	4.292	-0.171	-0.760	-0.061	-0.175	11111	1.14	38713.0134	44444
3454	4.291	-0.199	-0.742	-0.046	-0.189	11111	1.15	38720.0213	44444
3454	4.333	-0.187	-0.707	-0.047	-0.174	11111	1.19	38720.9557	44444
3454	4.307	-0.239	-0.739	-0.057	-0.176	11111	1.45	38721.8910	22222
3454	4.305	-0.173	-0.753	-0.072	-0.174	11111	1.14	38728.9835	44444
3454	4.307	-0.203	-0.734	-0.036	-0.182	11111	1.14	38729.9738	44444
3454	4.286	-0.176	-0.745	0.000	0.000	11100	1.75	38738.8123	22200
3454	4.292	-0.177	-0.764	0.000	0.000	11100	1.35	38740.8549	22200
3454	4.328	-0.220	-0.744	0.000	0.000	11100	1.15	38740.9243	22200
3454	4.282	-0.177	-0.774	0.000	0.000	11100	1.16	38741.9181	44400
3454	4.307	-0.188	-0.767	0.000	0.000	11100	1.31	38744.8522	22200
3454	4.312	-0.220	-0.734	0.000	0.000	11100	1.14	38771.8569	44400
3454	4.301	-0.212	-0.736	-0.055	-0.180	11111	1.14	38773.8553	44444
3454	4.299	-0.193	-0.739	-0.102	-0.193	11111	1.18	38786.8632	44444
3454	4.294	-0.192	-0.750	0.000	0.000	11100	1.18	38789.8554	44444
3454	4.268	-0.178	-0.747	-0.085	-0.214	11111	1.17	38790.8466	22222
3454	4.298	-0.177	-0.761	-0.029	-0.189	11111	1.18	38791.8462	44444
3454	4.285	-0.201	-0.752	0.000	0.000	11100	1.18	38792.7632	22200
3454	4.294	-0.195	-0.741	-0.067	-0.182	11111	1.16	38792.8371	44444
3454	4.316	-0.178	-0.764	-0.063	-0.222	11111	1.16	38795.8269	44444
3454	4.296	-0.206	-0.680	-0.064	-0.182	11111	1.16	38803.8041	44444
3454	4.295	-0.183	-0.754	0.000	0.000	11100	1.14	38809.7605	44400
3454	4.308	-0.197	-0.754	0.000	0.000	11100	1.15	38810.7743	44400
3454	4.308	-0.201	-0.748	0.000	0.000	11100	1.14	38811.7625	44400
3454	4.309	-0.202	-0.725	0.000	0.000	11100	1.43	38812.6459	22200
3454	4.297	-0.174	-0.742	-0.089	-0.194	11111	1.16	38818.7034	22222
3454	4.296	-0.193	-0.750	-0.064	-0.187	11111	1.15	38820.7469	22222
3454	4.310	-0.184	-0.746	-0.065	-0.192	11111	1.24	38822.7880	44444
3454	4.318	-0.194	-0.749	-0.073	-0.194	11111	1.27	38823.7935	44444
3454	4.310	-0.201	-0.744	-0.064	-0.197	11111	1.26	38824.7871	44444
3454	4.318	-0.192	-0.755	-0.058	-0.199	11111	1.20	38825.7657	44444
3454	4.297	-0.196	-0.754	-0.086	-0.205	11111	1.24	38826.7774	44444
3454	4.308	-0.193	-0.763	0.000	0.000	11100	1.15	38833.6698	22200
3454	4.301	-0.188	-0.748	0.000	0.000	11100	1.17	38833.7279	22200
3454	4.290	-0.198	-0.756	-0.090	-0.197	11111	1.24	38845.7261	44444
3454	4.296	-0.210	-0.729	-0.097	-0.206	11111	1.29	38858.7029	22222
3454	4.290	-0.197	-0.740	0.000	0.000	11100	1.40	38862.7146	22200
3454	4.300	-0.195	-0.740	0.000	0.000	11100	1.16	38867.6292	22200
3454	4.307	-0.219	-0.747	-0.082	-0.199	11111	1.17	38872.6214	44444
3454	4.295	-0.200	-0.741	0.000	0.000	11100	1.53	38901.6257	22200
3454	4.295	-0.187	-0.738	-0.076	-0.173	11111	1.82	39033.0015	44444
3454	4.295	-0.184	-0.748	-0.061	-0.172	11111	1.54	39035.0220	44444
3454	4.298	-0.172	-0.744	-0.074	0.000	11110	1.46	39037.0266	44444
3454	4.310	-0.186	-0.734	-0.059	-0.187	11111	2.35	39037.9602	44444
3454	4.297	-0.186	-0.744	-0.065	-0.178	11111	1.22	39056.0265	44444
3454	4.320	-0.188	-0.747	-0.069	-0.188	11111	1.20	39057.0317	44444
3454	4.286	-0.155	-0.750	-0.058	-0.184	11111	1.19	39058.0308	44444
3454	4.306	-0.183	-0.750	-0.026	-0.188	11111	1.20	39059.0250	44444
3454	4.292	-0.164	-0.758	-0.079	-0.178	11111	1.19	39060.0256	22222
3454	4.311	-0.170	-0.762	-0.045	-0.190	11111	1.17	39061.0336	44444
3454	4.299	-0.171	-0.768	-0.024	-0.198	11111	1.16	39062.0377	44444
3454	4.307	-0.178	-0.745	-0.047	-0.183	11111	1.18	39063.0259	44444
3454	4.283	-0.184	-0.737	-0.058	-0.188	11111	1.17	39064.0290	44444
3454	4.303	-0.183	-0.770	-0.023	-0.173	11111	1.18	39065.0155	44444
3454	4.318	-0.194	-0.760	-0.024	-0.189	11111	2.58	39066.8733	44444
3454	4.298	-0.168	-0.751	-0.065	-0.203	11111	1.15	39067.0375	44444
3454	4.293	-0.187	-0.744	-0.065	-0.171	11111	1.99	39093.8245	44444
3454	4.318	-0.175	-0.760	-0.051	-0.180	11111	2.29	39096.8017	44444
3454	4.333	-0.197	-0.694	-0.081	-0.167	11111	1.15	39096.9851	44444
3454	4.307	-0.200	-0.725	-0.056	-0.194	11111	2.27	39100.7914	44444
3454	4.311	-0.190	-0.713	-0.060	-0.207	11111	1.24	39129.9475	44444
3459	4.556	0.889	0.459	0.614	0.443	11111	1.45	38085.8123	44444
3459	4.603	0.807	0.533	0.647	0.468	11111	1.53	38155.6358	44444
3459	4.626	0.809	0.539	0.664	0.420	11111	1.30	38368.9557	44444
3459	4.630	0.855	0.493	0.665	0.428	11111	1.31	38404.8903	44444
3461				0.774	0.530	00011	1.19	38155.6429	44444
3461	3.946	1.089	0.939	0.822	0.560	11111	1.03	38346.0363	44444
3461	3.897	1.084	1.036	0.783	0.545	11111	1.05	38368.9027	44444
3461	3.967	1.073	0.995	0.732	0.525	11111	1.17	38523.6289	44444
3475	4.036	1.035	0.787	0.816	0.477	11111	1.17	38091.8261	12222
3475	4.057	1.023	0.	0.770	0.520	11011	1.12	38148.6574	44444
3475	4.037	0.984	0.819	0.753	0.474	11111	1.00	38368.9699	44444
3475	3.939	1.093	0.729	0.662	0.484	11111	1.02	38404.8990	44444
3482	3.399	0.673	0.386	0.643	0.345	11111	1.38	38161.6399	44444
3482	3.383	0.678	0.357	0.571	0.395	11111	1.12	38381.9537	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3482	3.392	0.694	0.420	-0.023	0.000	11100	1.24	38404.9463	44444
3482	3.393	0.676	0.395	0.600	0.414	11111	1.12	38410.8760	44444
3484	3.821	0.793	0.429	0.646	0.428	00011	1.69	38080.8388	44444
3484	4.266	0.966	0.574	0.609	0.500	11111	1.68	38154.6349	44444
3484	4.334	0.893	0.762	0.734	0.475	11111	1.54	38383.9816	44444
3484	4.338	0.868	0.612	0.651	0.449	11111	1.77	38523.6358	44444
3484	4.311	0.880	0.616	0.707	0.465	11111	1.73	38525.6261	44444
3484	4.346	0.885	0.604	0.714	0.463	11111	1.67	38526.6148	22222
3492	4.374	-0.050			-0.057	11001	1.24	38095.7900	44444
3492	4.381	-0.082	-0.058	0.090	-0.096	11111	1.19	38131.6782	44444
3492	4.351	-0.023	-0.030	0.014	-0.048	11111	1.14	38381.9639	44444
3518	4.001	1.241	1.449	0.881	0.719	11111	2.29	38107.7532	34444
3518	4.008	1.317	1.320	0.972	0.597	11111	2.55	38154.6449	44444
3518	4.019	1.284	1.360	0.964	0.668	11111	2.25	38383.9925	44444
3518	4.068	1.253	1.473	0.000	0.000	11100	2.02	38453.7604	44400
3518	3.951	1.222	1.374	0.979	0.650	11111	2.17	38461.7694	22222
3547	3.079	1.011	0.820		0.476	11101	1.17	38093.7786	44444
3547	3.127	0.984	0.824	0.725	0.486	11111	1.12	38112.6699	44444
3547	3.096	1.022	0.797	0.694	0.504	11111	1.15	38381.9756	44444
3556	4.883	0.078	0.137	0.056	0.082	11111	2.33	38107.7605	34444
3556	4.877	0.110	0.109	0.283	-0.011	11111	2.62	38161.6334	44444
3556	4.898	0.111	0.097	0.158	0.034	11111	2.30	38384.0011	44444
3569	3.177	0.226	0.034			11100	1.04	38060.8351	21200
3569	3.160	0.178	0.077	0.266	0.055	11111	1.11	38095.7978	44444
3569	3.178	0.178	0.088	0.205	0.030	11111	1.18	38161.6464	44444
3569	3.112	0.176	0.088	0.000	0.000	11100	1.05	38432.8311	44400
3569	3.100	0.177	0.120	0.000	0.000	11100	1.04	38438.8022	44400
3569	3.108	0.214	0.095	0.000	0.000	11100	1.04	38439.7985	44400
3572	4.229	0.164	0.165	0.137	0.050	11111	1.11	38083.8032	44444
3572	4.262	0.086	0.107	0.107	0.039	11111	1.24	38154.6529	44444
3572	4.287	0.133	0.171	0.169	0.027	11111	1.09	38370.9359	44444
3576	4.704	1.582	0.	1.502	1.237	11011	1.23	38085.7815	44444
3576	4.763	1.470	1.921	1.475	1.222	11111	1.76	38131.6847	44444
3576	4.775	1.544	1.844	1.506	1.284	11111	1.23	38370.9431	44444
3576	4.762	1.544	1.887	1.457	1.265	11111	1.47	38521.7126	44444
3576	4.809	1.525	1.865	1.407	1.270	11111	1.30	38523.6437	44444
3579	3.951	0.427	0.062	0.397	0.203	11111	1.12	38155.6493	44444
3579	4.008	0.418	0.040	0.440	0.226	11111	1.02	38370.9505	44444
3579	3.981	0.429	0.068	0.	0.	11100	1.02	38410.8838	44444
3579	3.945	0.437	0.042	0.358	0.218	11111	1.35	38521.7042	44444
3594	3.585	0.030	0.006	0.030	0.038	11111	1.04	38082.7703	44444
3594	3.610	-0.017	0.003	0.070	-0.060	11111	1.18	38161.6525	44444
3594	3.583	-0.005	0.001	0.073	0.043	11111	1.04	38358.0170	44444
3594	3.597	-0.013	0.026	0.086	0.002	11111	1.03	38367.9819	44444
3594	3.644	-0.022	0.031	0.100	-0.001	11111	1.04	38370.9661	44444
3612	4.580	1.055	0.831	0.738	0.535	11111	1.01	38082.7478	44444
3612	4.567	0.998	0.859	0.727	0.455	11111	1.25	38155.6903	44444
3612	4.546	1.054	0.778	0.721	0.517	11111	1.01	38358.0269	44444
3612	4.528	1.037	0.832	0.755	0.472	11111	1.01	38367.9892	44444
3612	4.576	1.030	0.792	0.794	0.487	11111	1.01	38370.9908	44444
3616	4.824	0.502	0.015	0.443	0.309	11111	1.22	38067.8275	44444
3616	4.836	0.506	0.052	0.458	0.250	11111	1.29	38162.6313	44444
3619	4.492	0.276	0.101	0.309	0.122	11111	1.06	38109.6948	44444
3619	4.501	0.242	0.117	0.276	0.111	11111	1.10	38131.6906	44444
3619	4.456	0.287	0.135	0.253	0.092	11111	1.18	38440.8835	44444
3619	4.485	0.275	0.121	0.244	0.104	11111	1.31	38446.9048	44444
3624	4.682	0.374	0.172	0.281	0.156	11111	1.17	38082.7586	44444
3624	4.677	0.348	0.140	0.330	0.112	11111	1.36	38155.6985	44444
3624	4.681	0.326	0.171	0.337	0.131	11111	1.17	38367.9968	44444
3628	4.550	1.613	1.831	1.201	0.894	11111	2.01	38116.7198	22222
3628	4.551	1.618	1.828	1.312	0.885	11111	2.43	38162.6379	44444
3628	4.573	1.607	1.932	1.225	0.921	11111	1.89	38387.9347	44444
3662	4.807	0.183	0.043	0.309	0.100	11111	1.16	38093.8228	44444
3662	4.846	0.137	0.077	0.185	0.065	11111	1.27	38154.6988	44444
3662	4.856	0.173	0.103	0.252	0.084	11111	1.08	38368.0044	44444
3662	4.879	0.193	0.082	0.000	0.000	11100	1.11	38459.6888	44400
3665	3.885	-0.068	-0.107	-0.056	-0.028	11111	1.23	37714.6971	22222
3665	3.899	-0.083	-0.115	-0.037	-0.013	11111	2.76	37719.5773	22222
3665	3.892	-0.085	-0.132	-0.076	-0.003	11111	2.14	37720.5798	22222
3665	3.889	-0.056	-0.112	0.036	-0.048	11111	1.18	37720.7871	22222
3665	3.896	-0.064	-0.127	-0.008	-0.069	11111	1.20	38059.7862	22211
3665		-0.095				01000	1.17	38061.8534	12111
3665	3.865	-0.038	-0.131	-0.024	-0.058	11111	1.20	38089.7980	22222
3665	3.878	-0.108	-0.122	0.033	-0.087	11111	1.17	38131.6650	44444
3665	3.876	-0.059	-0.113	0.030	-0.113	11111	1.45	38161.6594	44444
3690	3.837	0.009	0.040	0.093	0.006	11111	1.20	38154.6890	44444
3690	3.807	0.085	0.059	0.121	0.060	11111	1.01	38358.0361	44444
3690	3.828	0.064	0.065	0.147	0.017	11111	1.01	38368.0135	44444
3705	3.153	1.543	1.920	1.245	0.875	11111	1.07	38080.8500	44444
3705	3.164	1.549	1.940	1.199	0.915	11111	1.04	38131.6964	44444
3705	3.089	1.552	1.944	1.207	0.897	11111	1.01	38368.0203	44444
3705	3.120	1.562	1.980	0.000	0.000	11100	1.04	38459.6924	44400
3706	4.777	0.943	0.600	0.694	0.463	11111	1.58	38095.8117	44444
3706	4.805	0.916	0.663	0.747	0.470	11111	1.39	38112.6915	44444
3706	4.845	0.928	0.580	0.710	0.461	11111	1.43	38406.8537	43333
3709	4.800	0.934	0.670	0.693	0.451	11111	1.34	38063.8344	11212
3709	4.787	0.951	0.681	0.731	0.434	11111	1.65	38162.6497	44444
3709	4.805	0.934	0.675	0.688	0.438	11111	1.35	38449.7882	44444
3709	4.776	0.940	0.665	0.688	0.439	11111	1.36	38453.7836	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3718	4.731	1.554	2.087	1.389	1.013	11111	2.11	38107.7681	34444
3718	4.802	1.613	1.979	1.501	1.021	11111	1.90	38112.7025	44444
3718	4.702	1.683	2.034	1.382	1.082	11111	1.89	38387.9436	44444
3718	4.653	1.584	2.025	1.430	1.029	11111	1.98	38461.7774	22222
3731	4.473	1.234	1.314	0.966	0.643	11111	1.02	38063.8542	11212
3731	4.443	1.218	1.344	0.862	0.603	11111	1.19	38155.6817	44444
3731	4.453	1.231	1.287	0.901	0.621	11111	1.02	38381.9932	44444
3733	4.687	0.904	0.630	0.744	0.431	11111	2.22	38116.7333	22222
3733	4.650	0.950	0.628	0.781	0.445	11111	2.62	38162.6440	44444
3733	4.695	0.929	0.634	0.671	0.485	11111	2.07	38387.9552	44444
3733	4.679	0.854	0.627	0.742	0.451	11111	2.19	38461.7845	22222
3748	1.950	1.471	1.734			11100	1.35	38063.8633	11212
3748	1.964	1.490	1.696	1.055	0.787	11111	1.33	38082.7934	44444
3748	1.965	1.450	1.753	1.029	0.751	11111	1.35	38136.6642	44444
3749	4.681	1.058	1.204	0.837	0.592	11111	1.87	38108.7632	44444
3749	4.666	1.167	1.137	0.951	0.528	11111	2.18	38165.6430	44444
3749	4.688	1.160	1.158	0.860	0.563	11111	1.74	38387.9656	44444
3751	4.271	1.485	1.734	1.197	0.749	11111	1.53	38109.7235	44444
3751	4.324	1.476	1.700	1.087	0.731	11111	1.53	38385.9672	44444
3751	4.292	1.474	1.734	1.090	0.752	11111	1.53	38387.9768	44444
3757	3.664	0.337	0.090	0.358	0.190	11111	1.16	38109.7038	44444
3757	3.691	0.324	0.102	0.327	0.190	11111	1.18	38382.0056	44444
3757	3.660	0.318	0.102	0.327	0.182	11111	1.17	38382.9456	22222
3759	4.623	0.440	-0.007	0.461	0.264	11111	1.30	38116.7433	22222
3759	4.605	0.454	0.019	0.438	0.203	11111	1.48	38162.6557	44444
3759	4.606	0.445	0.003	0.401	0.209	11111	1.23	38449.7972	44444
3759	4.593	0.438	-0.029	0.410	0.220	11111	1.26	38452.8071	44444
3771	4.553	0.788	0.318	0.834	0.435	11101	1.32	38093.8310	44444
3771	4.539	0.767	0.507	0.649	0.421	11011	1.26	38382.9565	22222
3771	4.589	0.759	0.338	0.666	0.394	11111	1.26	38385.9563	44444
3771	4.579	0.752	0.358	0.654	0.000	11110	1.30	38525.6367	44444
3773	4.324	1.522	1.867	1.262	0.888	11111	1.07	38095.8051	44444
3773	4.387	1.552	1.966	1.248	0.923	11111	1.17	38165.6494	44444
3773	4.245	1.543	1.887	1.206	0.915	11111	1.02	38378.9829	44444
3773	4.303	1.542	1.858	0.000	0.000	11100	1.03	38474.7399	44400
3775	3.192	0.455	0.046	0.442	0.277	11111	1.07	38064.8582	12222
3775	3.223	0.480	0.098		0.231	11101	1.19	38165.6560	44444
3775	3.191	0.451	0.028	0.444	0.280	11111	1.07	38378.9972	44444
3786	3.627	0.266	-0.099	0.374	0.187	11111	3.44	38095.7751	44444
3786	3.558	0.412	-0.030	0.344	0.265	11111	3.36	38103.7408	44444
3786	3.613	0.384	-0.072	0.606	0.162	11111	3.35	38112.7129	44444
3787	4.574	0.093	0.033	0.182	0.104	11111	1.25	38109.7539	44444
3787	4.558	0.106	0.098	0.177	0.030	11111	1.47	38162.6613	44444
3787	4.575	0.108	0.121	0.135	0.063	11111	1.22	38449.8060	44444
3787	4.558	0.100	0.129	0.134	0.065	11111	1.30	38452.8315	44444
3799	4.502	0.029	0.029	0.113	0.014	11111	1.07	38109.7322	44444
3799	4.529	-0.047	0.012	0.094	-0.022	11111	1.25	38154.7058	44444
3799	4.492	0.022	0.061	0.075	0.005	11111	1.06	38382.9710	22222
3800	4.541	0.964	0.629	0.748	0.458	11111	1.06	38116.7566	22222
3800	4.558	0.869	0.661	0.686	0.443	11111	1.32	38154.7258	44444
3800	4.545	0.917	0.611	0.701	0.455	11111	1.01	38382.9816	22222
3809	4.801	1.009	0.768	0.790	0.536	11111	1.02	38109.7402	44444
3809	4.823	0.974	0.775	0.739	0.562	11111	1.01	38113.7150	44444
3809	4.807	0.988	0.767	0.741	0.502	11111	1.22	38440.9234	44444
3809	4.813	0.995	0.729	0.763	0.506	11111	1.06	38448.8466	44444
3815	5.407	0.772	0.446	0.634	0.370	11111	1.03	38059.7998	22211
3815	5.415	0.784	0.404	0.637	0.387	11111	1.03	38089.8076	22222
3815	5.399	0.744	0.469	0.656	0.363	11111	1.02	38109.7474	44444
3815	5.374	0.769	0.450	0.000	0.000	11100	1.01	38432.8090	44400
3834	4.692	1.343	1.462	1.053	0.737	11111	1.13	38082.7815	44444
3834	4.681	1.303	1.476	1.073	0.728	11111	1.14	38113.7258	44444
3834	4.641	1.334	1.391	0.000	0.000	11100	1.13	38432.8352	44400
3834	4.749	1.317	1.440	0.000	0.000	11100	1.13	38438.8069	44400
3834	4.692	1.320	1.456	0.000	0.000	11100	1.20	38440.8625	44400
3845	3.910	1.280	1.522	0.997	0.664	11111	1.27	38080.8565	44444
3845	3.892	1.340	1.472	0.999	0.678	11111	1.18	38136.6567	44444
3845	3.846	1.341	1.385	0.000	0.000	11100	1.17	38432.8389	44400
3845	3.968	1.304	1.430	0.000	0.000	11100	1.17	38438.8111	44400
3845	3.909	1.335	1.446	0.000	0.000	11100	1.25	38440.8663	44400
3849	5.022	-0.123	-0.578	-0.062	-0.156	11111	1.63	38080.8631	44444
3849	5.048	-0.141	-0.611	-0.041	-0.199	11111	1.49	38136.6717	44444
3849	5.083	-0.160	-0.560	-0.063	-0.147	11111	1.49	38387.9876	44444
3849	5.061	-0.160	-0.568	0.000	0.000	11100	1.48	38474.7437	44400
3852	3.492	0.515	0.220	0.432	0.260	11111	1.14	38085.8343	44444
3852	3.544	0.490	0.193	0.405	0.218	11111	1.09	38385.9796	44444
3852	3.505	0.482	0.221	0.382	0.234	11111	1.17	38387.0223	44444
3858	4.759	-0.134	-0.610	-0.002	-0.062	11111	1.98	38103.7934	44444
3858	4.754	-0.090	-0.580	0.020	-0.080	11111	1.79	38392.9557	44444
3858	4.787	-0.126	-0.567	0.007	-0.105	11111	2.03	38523.6513	44444
3858	4.822	-0.136	-0.558	0.049	-0.105	11111	1.90	38526.6232	22222
3871	4.794	0.523	0.326	0.470	0.322	11111	2.06	38136.6776	44444
3871	4.796	0.494	0.340	0.461	0.343	11111	2.18	38388.0101	44444
3871	4.768	0.540	0.306	0.478	0.326	11111	1.99	38392.9425	44444
3873	2.970	0.792	0.515	0.659	0.390	11111	1.08	38095.8199	44444
3873	2.989	0.833	0.456	0.703	0.368	11111	1.34	38131.7875	44444
3873	2.959	0.811	0.500	0.619	0.421	11111	1.02	38368.9864	44444
3873	3.009	0.801	0.483	0.000	0.000	11100	1.04	38393.8951	33333

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3873	2.975	0.787	0.442	0.000	0.000	11100	1.94	38396.7456	44444
3873	2.920	0.826	0.448	0.000	0.000	11100	1.01	38396.9399	44444
3873	3.040	0.801	0.425	0.632	0.419	11111	1.04	38406.8635	43333
3881	5.101	0.624	0.072	0.534	0.339	11111	1.03	38357.0331	44444
3881	5.100	0.627	0.081	0.535	0.327	11111	1.04	38358.0070	44444
3888	3.805	0.278	0.112	0.329	0.121	11111	1.25	38161.6838	44444
3888	3.822	0.273	0.125	0.324	0.165	11111	1.12	38368.9931	44444
3888	3.834	0.307	0.053	0.353	0.151	11111	1.13	38406.8812	43333
3888	3.817	0.283	0.120	0.340	0.191	11111	1.12	38410.8973	44444
3894	4.595	0.035	0.048	0.121	0.013	11111	1.09	38109.7609	44444
3894				0.091	-0.033	00011	1.23	38165.6812	44444
3894	4.585	0.026	0.115	0.086	-0.000	11111	1.08	38368.9993	44444
3894	4.611	0.033	0.083	0.102	0.010	11111	1.08	38377.9770	44444
3903	4.118	0.881	0.662	0.718	0.487	11111	1.54	38108.7691	44444
3903	4.023	0.961	0.588	0.681	0.471	11111	1.47	38377.0015	44444
3903	4.101	0.936	0.629	0.674	0.454	11111	1.49	38385.9906	44444
3905	3.896	1.217	1.419	0.959	0.535	11111	1.01	38064.8699	12222
3905	3.871	1.204	1.373	0.870	0.627	11111	1.34	38154.7333	44444
3905	3.992	1.218	1.281	0.923	0.574	11111	1.03	38406.8691	43333
3905	3.865	1.246	1.356	0.892	0.606	11111	1.01	38410.9010	44444
3905	3.881	1.228	1.412	0.888	0.581	11111	1.24	38440.9319	44444
3950	4.679	1.591	1.974	1.430	1.125	11111	1.22	38091.8519	12222
3950	4.682	1.606	1.964	1.423	1.039	11111	1.10	38112.7239	44444
3950	4.652	1.636	1.792	0.000	0.000	11100	1.11	38432.8131	44400
3950	4.752	1.578	1.882	0.000	0.000	11100	1.10	38438.8152	44400
3950	4.700	1.621	1.847	0.000	0.000	11100	1.14	38440.8700	44400
3970	4.546	-0.094	-0.248	-0.032	-0.099	11111	1.44	38064.8779	12222
3970	4.605	-0.094	-0.303	-0.035	-0.073	11111	1.48	38108.7751	44444
3970	4.601	-0.114	-0.259	-0.015	-0.083	11111	1.42	38377.0119	44444
3970	4.588	-0.090	-0.286	0.027	-0.073	11111	1.43	38381.0074	44444
3974	4.486	0.174	0.088	0.195	0.077	11111	1.03	38059.8220	22211
3974	4.491	0.204	0.065	0.209	0.071	11111	1.01	38089.8164	22222
3974	4.522	0.181	0.059	0.190	0.101	11111	1.01	38108.7566	44444
3974	0.000	0.000	0.000	-0.014	0.097	00001	1.01	38113.7397	44444
3974	4.497	0.150	0.089	0.180	0.055	11111	1.01	38377.0221	44444
3974	4.489	0.166	0.061	0.227	0.084	11111	1.01	38381.0166	44444
3975	3.549	-0.054	-0.221	0.104	0.053	11111	1.05	38067.8747	44444
3975	3.527	-0.020	-0.177	0.074	-0.022	11111	1.17	38165.6648	44444
3975	3.531	-0.033	-0.211	0.092	0.013	11111	1.04	38377.9934	44444
3975	3.516	-0.039	-0.227	0.106	0.022	11111	1.06	38381.0253	44444
3980	4.388	1.436	1.762			11100	1.08	38063.8729	11212
3980	4.359	1.455	1.760	1.125	0.792	11111	1.08	38378.0047	44444
3980	4.373	1.451	1.726	1.128	0.759	11111	1.09	38386.0012	44444
3981	4.487	-0.048	-0.067	0.075	-0.079	11111	1.45	38161.6902	44444
3981	4.509	-0.030	-0.067	0.064	-0.020	11111	1.19	38378.0164	44444
3981	4.503	-0.039	-0.044	0.039	-0.050	11111	1.20	38390.9886	44444
3982	1.341	-0.102	-0.370	-0.032	-0.101	11111	1.09	38059.8363	22211
3982	1.328	-0.095	-0.350	-0.038	-0.114	11111	1.07	38083.8154	44444
3982	1.345	-0.110	-0.372	-0.035	-0.083	11111	1.09	38089.8245	22222
3982	1.352	-0.094	-0.334	-0.	-0.088	11111	1.14	38344.0300	44444
3982	1.376	-0.138	-0.331	-0.003	-0.104	11111	1.11	38368.9775	44444
3982	1.341	-0.150	-0.345	0.000	0.000	11100	1.09	38432.8170	44400
3982	1.296	-0.141	-0.330	0.000	0.000	11100	1.07	38438.8194	44400
3982	1.348	-0.106	-0.351	0.000	0.000	11100	1.09	38439.8624	44400
3994	3.625	1.005	0.892	0.848	0.459	11111	1.51	38080.8701	44444
3994	3.630	1.005	0.903	0.792	0.451	11111	2.13	38155.7355	44444
3994	3.584	1.015	0.909	0.727	0.506	11111	1.41	38379.0087	44444
3994	3.616	1.014	0.949	0.000	0.000	11100	1.40	38451.7917	44400
3994	3.619	0.980	0.923	0.000	0.000	11100	1.49	38473.7914	44400
4031	3.443	0.340	0.179	0.302	0.197	11111	1.01	38082.8084	44444
4031	3.451	0.302	0.192	0.320	0.123	11111	1.19	38161.6966	44444
4031	3.430	0.308	2.305	0.293	0.196	11011	1.02	38379.0180	44444
4031	3.448	0.293	0.203	0.000	0.000	11100	1.06	38473.7950	44400
4031	3.440	0.297	0.218	0.000	0.000	11100	1.01	38474.7472	44400
4033	3.457	0.017	0.040	1.173	-0.040	11100	1.03	38059.8485	22211
4033	3.468	0.035	0.067	0.091	0.003	11111	1.02	38088.8140	22222
4033	3.455	0.031	0.067	0.092	-0.008	11111	1.04	38108.7816	44444
4033	3.463	0.021	0.024	0.114	-0.011	11111	1.03	38109.7680	44444
4033	3.470	0.022	0.081	0.061	-0.013	11111	1.19	38440.9427	44444
4033	3.440	0.042	0.077	0.034	-0.019	11111	1.05	38450.8572	44444
4039	5.771	0.493	-0.049	0.501	0.265	11111	1.06	38498.7262	44444
4039	5.845	0.484	-0.043	0.449	0.274	11111	1.07	38523.6675	44444
4039	5.820	0.514	-0.058	0.480	0.289	11111	1.06	38526.6521	22222
4054	4.813	0.436	0.060	0.482	0.249	11111	1.04	38064.8906	12222
4054	4.763	0.435	0.022	0.437	0.235	11111	1.03	38384.0135	44444
4054	4.811	0.445	-0.003	0.419	0.228	11111	1.04	38386.0115	44444
4057	1.996	1.148	1.040	0.798	0.608	11111	1.12	38080.8955	44444
4057	2.009	1.164	1.003	0.850	0.634	11111	1.03	38088.8240	22222
4057	1.986	1.181	1.027	0.873	0.627	11111	1.04	38109.7746	44444
4057	1.977	1.127	0.966	0.865	0.601	11111	1.04	38384.0225	44444
4057	1.953	1.121	0.954	0.000	0.000	11100	1.16	38396.8691	44444
4057	1.934	1.145	0.970	0.000	0.000	11100	1.03	38396.9738	44444
4069	3.027	1.637	1.840	1.422	0.941	11101	1.05	38093.8394	44444
4069	3.049	1.594	1.855	1.291	0.956	11111	1.01	38112.7242	44444
4069	3.053	1.560	1.878	1.284	0.991	11111	1.02	38113.7522	44444
4069	3.048	1.566	1.949	1.284	0.934	11111	1.21	38440.9523	44444
4069	3.038	1.568	1.934	1.270	0.955	11111	1.05	38450.8655	44444
4072	4.966	-0.052	-0.193	0.014	-0.038	11111	1.20	38131.7023	44444
4072	4.970	-0.090	-0.123	0.064	-0.067	11111	1.21	38384.0337	44444
4072	5.018	-0.071	-0.123	0.048	-0.076	11111	1.21	38386.0226	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4090	4.731	0.289			0.180	11001	1.01	38067.8819	44444
4090	4.750	0.238	0.173	0.248	0.104	11111	1.25	38155.7445	44444
4090	4.729	0.239	0.167	0.263	0.129	11111	1.01	38383.0174	22222
4090	4.733	0.233	0.180	0.000	0.000	11100	1.04	38473.7999	44400
4090	4.726	0.264	0.175	0.000	0.000	11100	1.00	38474.7511	44400
4092	5.612	1.482	1.872	1.300	0.956	11111	1.81	38339.9966	44444
4092	5.534	1.524	1.910	1.213	0.933	11111	1.64	38344.0029	44444
4092	5.578	1.526	1.877	1.242	0.946	11111	1.36	38386.0377	44444
4094	3.807	1.482	1.788	1.113	0.794	11111	1.55	38083.8453	44444
4094	3.821	1.484	1.856	1.147	0.810	11111	1.62	38384.0447	44444
4094	3.757	1.476	1.799	1.081	0.865	11111	1.52	38392.9664	44444
4100		0.902			0.449	01001	1.00	38061.8737	12111
4100	4.208	0.902	0.663	0.670	0.475	11111	1.01	38152.6508	44444
4100	4.208	0.910	0.629	0.715	0.462	11111	1.02	38383.0335	22222
4100	0.000	0.000	0.642	-0.030	0.458	00101	1.00	38403.9531	44444
4112	4.832	0.522	-0.009	0.000	0.000	11100	1.11	38383.0439	22222
4112	4.855	0.501	-0.001	0.479	0.273	11111	1.11	38387.0327	44444
4112	4.869	0.516	-0.047	0.537	0.276	11111	1.10	38403.9626	44444
4112	4.817	0.515	0.003	0.430	0.266	11111	1.21	38521.7205	44444
4119	5.125	-0.152	-0.563	-0.044	-0.147	11111	1.18	38095.7826	44444
4119	5.097	-0.119	-0.550	0.030	-0.163	11111	1.18	38117.7446	44444
4119	5.076	-0.150	-0.521	0.000	0.000	11100	1.25	38384.0543	44444
4119	5.090	-0.137	-0.533	-0.041	-0.149	11111	1.25	38386.0483	44444
4119	5.123	-0.129	-0.491	-0.003	-0.131	11111	1.18	38473.7429	44444
4119	5.078	-0.139	-0.512	-0.072	-0.143	11111	1.19	38474.7305	44444
4132	4.746	0.238	0.057	0.192	0.106	11111	1.02	38086.8358	22222
4132	4.762	0.226	0.106	0.222	0.068	11111	1.23	38165.7194	44444
4132	4.730	0.214	0.081	0.186	0.091	11111	1.04	38387.0417	44444
4133	3.847	-0.123	-0.961	-0.048	-0.151	11111	1.10	37720.7599	22222
4133	3.824	-0.123	-0.945	-0.039	-0.186	11111	1.19	38080.9023	44444
4133	3.890	-0.131	-0.948	-0.065	-0.150	11111	1.12	38089.8456	22222
4133	3.885	-0.147	-0.994	-0.018	-0.174	11111	1.11	38448.8558	44444
4133	3.852	-0.156	-0.948	-0.054	-0.182	11111	1.10	38449.8512	44444
4163	5.311	3.224	3.607	2.158	1.208	11111	1.65	38093.8744	44444
4163	4.874	2.780	3.869	1.934	1.263	11111	1.90	38165.7071	44444
4163	4.697	2.502	5.349	1.677	1.221	11111	1.43	38388.9895	44444
4163	4.931	2.719	5.132	1.824	1.286	11111	1.48	38449.8620	44444
4163	4.851	2.595	4.702	1.786	1.314	11111	1.44	38784.8869	44444
4166	4.714	0.808	0.524	0.678	0.412	11111	1.02	38108.7924	44444
4166		0.797				01000	1.25	38155.7519	44444
4166	4.717	0.795	0.575	0.662	0.360	11111	1.33	38155.7668	44444
4166	4.712	0.799	0.564	0.000	0.000	11100	1.01	38438.8236	44400
4166	4.740	0.816	0.559	0.000	0.000	11100	1.00	38439.8659	44400
4166	4.698	0.833	0.544	0.000	0.000	11100	1.01	38440.8735	44400
4195	6.015	2.371	4.468	1.748	1.293	11111	1.31	38512.7493	22222
4195	5.935	2.382	4.570	1.754	1.252	11111	1.29	38513.7342	22222
4195	5.984	2.352	4.509	1.794	1.255	11111	1.23	38515.6761	44444
4195	6.100	2.365	4.326	1.807	1.285	11111	1.45	38566.6558	22222
4232	3.118	1.227	1.251	0.904	0.691	11111	1.56	38103.8173	44444
4232	3.103	1.254	1.319	1.050	0.596	11111	1.87	38161.7123	44444
4232	3.096	1.236	1.250	0.862	0.626	11111	1.50	38389.0019	44444
4247	3.805	1.049	0.920	0.883	0.509	11111	1.00	38086.8452	22222
4247	3.850	1.034	0.968	0.785	0.561	11111	1.23	38155.7596	44444
4247	3.799	1.045	0.902	0.813	0.563	11111	1.00	38379.0281	44444
4248	4.708	-0.061	-0.073	-0.000	-0.033	11111	1.03	38148.6932	44444
4248	4.719	-0.047	-0.046	0.045	-0.029	11111	1.02	38379.0397	44444
4248	4.716	-0.051	-0.038	0.099	-0.059	11111	1.02	38403.9716	44444
4259	4.338	0.003	-0.036	0.159	-0.017	11111	1.13	38095.8883	44444
4259	4.318	0.032	-0.031	0.089	-0.026	11111	1.01	38112.7563	44444
4259	4.258	-0.017	0.089	0.000	0.000	11100	1.03	38438.8286	44400
4259	4.314	0.024	0.066	0.000	0.000	11100	1.01	38439.8701	44400
4259	4.297	0.035	0.037	0.000	0.000	11100	1.01	38440.8770	44400
4287	4.079	1.088	0.944	0.853	0.558	11111	1.63	38103.8246	44444
4287	4.069	1.079	0.957	0.765	0.526	11111	1.57	38389.0146	44444
4287	4.034	1.095	0.998	0.781	0.581	11111	1.57	38392.9831	44444
4295	2.362	-0.005	-0.077	0.120	-0.046	11111	1.19	38095.8974	44444
4295	2.402	-0.027	0.026	0.047	-0.052	11111	1.10	38390.9984	44444
4295	2.400	-0.025	0.015	0.086	-0.029	11111	1.10	38473.7512	44444
4295	2.361	-0.012	-0.002	0.008	-0.034	11111	1.11	38480.7139	44444
4299	4.728	1.663	1.921	1.292	0.951	11111	1.22	38082.8501	44444
4299	4.776	1.623	1.986	1.337	0.983	11111	1.48	38165.7131	44444
4299	4.819	1.581	1.900	0.000	0.000	11100	1.25	38438.8333	44400
4299	4.739	1.617	1.877	0.000	0.000	11100	1.22	38440.8806	44400
4299	4.711	1.606	1.918	0.000	0.000	11100	1.22	38441.8812	44400
4300	4.427	0.042	0.021	0.010	-0.024	11111	1.03	38142.6638	44444
4300				0.015	-0.042	00011	1.22	38161.7314	44444
4300	4.423	0.032	0.048	0.119	-0.004	11111	1.02	38381.0339	44444
4300	4.419	0.068	0.077	0.084	-0.027	11111	1.03	38509.7014	44444
4301	1.779	1.070	0.970	0.824	0.580	11111	1.15	38086.8569	22222
4301	1.778	1.080	0.911	0.809	0.571	11111	1.55	38317.0256	22221
4301	1.814	1.071	0.941	0.773	0.612	11111	1.62	38318.0104	44444
4301	1.831	1.064	0.933	0.854	0.575	11111	1.48	38324.0215	44444
4301	1.784	1.074	0.948	0.797	0.570	11111	1.42	38328.0220	22222
4310	4.639	0.338	0.110	0.355	0.182	11111	1.10	38064.9004	12222
4310	4.602	0.309	0.071	0.315	0.126	11111	1.10	38143.6822	44444
4310	4.625	0.315	0.056	0.352	0.187	11111	1.10	38381.0424	44444
4310	4.629	0.336	0.079	0.000	0.000	11100	1.22	38464.8736	44400
4310	4.613	0.348	0.088	0.000	0.000	11100	1.20	38466.8631	22200

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4335	3.016	1.190	1.145	0.830	0.588	11111	1.02	38088.8350	22222
4335	2.996	1.124	0.	0.707	0.612	11011	1.02	38131.7088	44444
4335	3.025	1.140	1.124	0.845	0.555	11111	1.02	38391.0085	44444
4343	4.439	0.017	0.037	0.037	0.040	11111	1.74	38103.8017	44444
4343	4.462	0.030	-0.002	0.052	0.036	11111	2.01	38153.7289	44444
4343	4.470	0.024	0.081	0.000	0.000	11100	1.75	38440.8841	44400
4343	4.528	0.032	0.097	0.000	0.000	11100	1.74	38443.8583	44400
4357	2.561	0.088	0.104	0.089	0.025	11111	1.03	38142.6727	44444
4357	2.565	0.138	0.139	0.109	0.027	11111	1.02	38391.0177	44444
4357	2.589	0.095	0.090	0.186	0.050	11111	1.02	38403.9811	44444
4359	3.338	-0.039	0.030	0.009	-0.033	11111	1.05	38142.6809	44444
4359	3.349	-0.001	0.078	0.049	-0.046	11111	1.05	38391.0280	44444
4359	3.348	-0.007	0.105	0.104	-0.010	11111	1.05	38403.9892	44444
4362	4.590	1.709	1.846	1.608	1.247	11111	1.08	38088.9030	22222
4362	4.620	1.631	1.875	1.519	1.325	11111	1.02	38392.9837	44444
4362	4.512	1.634	1.884	1.416	1.350	01101	1.01	38392.9937	44444
4362	4.673	1.651	1.808	0.000	0.000	11100	1.05	38451.7988	44400
4368	4.439	0.205	0.090	0.292	0.126	11111	1.32	38093.8832	44444
4368	4.468	0.218	0.116	0.273	0.085	11111	1.26	38148.7096	44444
4368	4.462	0.211	0.162	0.000	0.000	11100	1.24	38440.8881	44400
4368	4.479	0.210	0.169	0.000	0.000	11100	1.24	38441.8854	44400
4368	4.506	0.212	0.184	0.000	0.000	11100	1.23	38443.8626	44400
4371	5.179	1.533	1.825	1.298	0.948	11111	1.85	38340.0067	44444
4371	5.168	1.492	1.924	1.240	0.939	11111	1.65	38344.0120	44444
4374	3.786	0.611	0.057	0.547	0.391	11111	1.00	38067.9074	44444
4374	3.820	0.588	0.039	0.568	0.351	11111	1.00	38108.8024	44444
4374	3.804	0.569	0.059	0.490	0.350	11111	1.00	38131.7143	44444
4374	3.778	0.617	0.073	0.496	0.305	11111	1.24	38155.7760	44444
4374	3.723	0.606	-0.000	0.477	0.348	11111	1.00	38393.0128	44444
4374	3.786	0.589	0.051	0.000	0.000	11100	1.01	38440.9042	44400
4374	3.793	0.578	0.062	0.000	0.000	11100	1.00	38441.8894	44400
4374	3.812	0.589	0.071	0.000	0.000	11100	1.00	38443.8660	44400
4377	3.482	1.432	1.562	1.071	0.703	11111	1.00	38116.7796	22222
4377	3.508	1.413	1.590	1.057	0.668	11111	1.27	38155.7829	44444
4377	3.493	1.395	1.511	0.000	0.000	11100	1.01	38440.9076	44400
4377	3.480	1.393	1.506	0.000	0.000	11100	1.01	38441.8931	44400
4377	3.490	1.383	1.556	0.000	0.000	11100	1.00	38443.8690	44400
4380	4.771	0.142	0.009	0.074	0.017	11111	1.05	38080.9221	44444
4380	4.815	0.082	0.066	0.114	0.011	11111	1.28	38155.7898	44444
4380	4.794	0.126	0.027	0.146	0.049	11111	1.01	38378.0588	44444
4382	3.556	1.124	0.961	0.848	0.615	11111	1.47	38088.8457	22222
4382	3.558	1.129	0.979	0.820	0.582	11111	1.47	38392.9940	44444
4382	3.570	1.091	1.012		0.626	11101	1.47	38394.0151	33333
4382	3.556	1.110	0.974	0.815	0.597	11111	1.63	38469.8630	44444
4386	4.079	-0.061	-0.146	0.090	-0.040	11100	1.12	38063.9007	11212
4386	4.057	-0.083	-0.124	0.041	-0.062	11111	1.15	38148.7175	44444
4386	4.055	-0.063	-0.123	-0.003	-0.092	11111	1.23	38392.9359	44444
4386	4.065	-0.058	-0.104	0.000	0.000	11100	1.15	38451.8052	44400
4386	4.009	-0.056	-0.121	0.000	0.000	11100	1.21	38464.8777	44400
4392	4.988	0.990	0.793	0.747	0.469	11111	1.02	38424.9177	44444
4392	5.006	0.969	0.800	0.747	0.457	11111	1.02	38452.8437	44444
4399	3.935	0.425	0.079	0.378	0.219	11111	1.10	38078.9057	12222
4399	3.944	0.430	0.063	0.398	0.239	11111	1.08	38378.0488	44444
4399	3.944	0.419	0.064	0.382	0.193	11111	1.17	38392.9445	44444
4405	4.076	0.246	0.053	0.249	0.102	11111	1.71	38080.9287	44444
4405	4.071	0.201	0.093	0.207	0.104	11111	1.55	38107.8028	34444
4405	4.079	0.204	0.118	0.000	0.000	11100	1.59	38440.9111	44400
4405	4.092	0.199	0.128	0.000	0.000	11100	1.55	38443.8724	44400
4434	3.848	1.649	1.984	1.307	1.018	11111	1.25	38088.8576	22222
4434	3.826	1.612	1.975	1.233	0.968	11111	1.41	38203.6629	44444
4434	3.874	1.593	1.956	1.366	0.998	11111	1.26	38404.0001	44444
4450	3.577	0.922	0.626	0.715	0.453	11111	2.76	38095.9059	44444
4450	3.542	0.938	0.689	0.656	0.550	11111	2.27	38103.8096	44444
4450	3.512	0.924	0.783	0.713	0.495	11111	2.28	38131.7218	44444
4456	5.946	-0.160	-0.657	0.016	-0.181	11111	1.34	37836.6432	22222
4456	5.951	-0.173	-0.647	-0.054	-0.169	11111	1.05	38089.8748	22222
4456	5.967	-0.125	-0.684	-0.024	-0.172	11111	1.04	38131.7284	44444
4456	5.948	-0.133	-0.677	-0.058	-0.156	11111	1.11	38147.7669	44444
4456	5.935	-0.140	-0.726	-0.059	-0.173	11111	1.14	38143.7748	44444
4456	5.935	-0.140	-0.657	-0.081	-0.195	11111	1.05	38144.6756	22222
4456	5.887	-0.088	-0.697	-0.129	-0.205	11111	1.05	38147.6631	44444
4456	5.940	-0.160	-0.640	-0.126	-0.185	11111	1.19	38157.7509	12211
4456	5.939	-0.168	-0.653	-0.086	-0.203	11111	1.04	38161.6682	44444
4456	5.944	-0.159	-0.664	-0.067	-0.189	11111	1.04	38162.6671	44444
4456	5.942	-0.179	-0.732	0.000	0.000	11100	1.02	38165.6417	22200
4456	5.950	-0.160	-0.640	-0.070	-0.190	11111	1.07	38165.6869	44444
4456	5.940	-0.128	-0.654	-0.092	-0.185	11111	2.12	38165.8273	44444
4456	5.950	-0.160	-0.640	-0.070	-0.190	11111	1.04	38166.6411	44444
4456	5.975	-0.163	-0.661	-0.251	-0.168	11111	1.11	38176.6722	44444
4456	5.967	-0.153	-0.674	-0.424	-0.185	11101	2.00	38176.7911	44444
4456	5.932	-0.133	-0.662	-0.111	-0.191	11111	1.13	38178.6767	44444
4456	5.948	-0.155	-0.670	0.090	-0.040	11100	1.08	38179.6530	44444
4456	5.945	-0.151	0.	-0.131	-0.188	11011	1.10	38179.6615	44444
4456	5.939	-0.133	-0.673	-0.119	-0.188	11111	1.12	38180.6671	44444
4456	5.943	-0.120	-0.677	-0.076	-0.177	11111	1.92	38356.9416	44444
4456	5.958	-0.128	-0.674	-0.101	-0.174	11111	1.85	38360.9347	44444
4456	5.968	-0.160	-0.652	-0.059	-0.167	11111	2.06	38366.9062	44444
4456	5.959	-0.161	-0.647	-0.044	-0.154	11111	2.12	38368.8979	44444
4456	5.944	-0.166	-0.639	-0.074	-0.173	11111	1.04	38377.0541	44444
4456	5.979	-0.160	-0.664	-0.007	-0.159	11111	1.04	38379.0508	44444
4456	5.976	-0.165	-0.654	-0.021	-0.178	11111	1.04	38382.0299	44444
4456	5.945	-0.169	-0.629	-0.051	-0.170	11111	1.09	38382.9918	22222
4456	5.959	-0.160	-0.634	-0.051	-0.166	11111	1.82	38385.8689	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4456	5.962	-0.149	-0.610	-0.029	-0.134	11111	1.05	38386.0604	44444
4456	5.961	-0.159	-0.649	-0.060	-0.169	11111	2.06	38386.8518	44444
4456	5.966	-0.159	-0.645	-0.039	-0.164	11111	1.04	38387.0511	44444
4456	5.967	-0.162	-0.636	-0.032	-0.157	11111	2.04	38387.8502	44444
4456	5.930	-0.159	-0.643	-0.054	-0.163	11111	1.04	38388.0239	44444
4456	5.994	-0.152	-0.649	-0.005	-0.169	11111	2.26	38388.8373	44444
4456	5.956	-0.156	-0.580	-0.029	-0.157	11111	1.10	38388.9689	44444
4456	5.943	-0.166	-0.644	-0.056	-0.169	11111	1.09	38390.9690	44444
4456	5.986	-0.178	-0.657	-0.026	-0.168	11111	2.11	38392.8330	44444
4456	5.937	-0.152	-0.665	-0.063	-0.165	11111	1.04	38393.0240	44444
4456	5.974	-0.161	-0.640	-0.032	-0.177	11111	1.04	38393.0318	44444
4456	5.959	-0.153	-0.687	-0.032	-0.158	11111	1.07	38408.9334	44444
4456	5.960	-0.154	-0.662	-0.075	-0.185	11111	2.49	38410.7686	44444
4456	5.958	-0.134	-0.633	-0.046	-0.195	11111	1.87	38410.8002	44444
4456	5.924	-0.175	-0.662	-0.067	-0.186	11111	1.10	38410.9104	44444
4456	5.967	-0.166	-0.653	-0.078	-0.154	11111	1.04	38411.9587	44444
4456	5.958	-0.160	-0.652	-0.064	-0.176	11111	1.08	38415.0058	22222
4456	5.937	-0.108	-0.688	-0.094	-0.184	11111	2.06	38415.7724	44444
4456	5.903	-0.122	-0.663	-0.124	-0.177	11111	1.04	38415.9595	44444
4456	5.970	-0.118	-0.658	-0.035	-0.136	11111	2.21	38419.7548	44444
4456	5.947	-0.180	-0.669	-0.055	-0.173	11111	1.04	38419.9510	44444
4456	5.942	-0.142	-0.659	-0.050	-0.161	11111	1.92	38420.7670	44444
4456	5.929	-0.146	-0.664	-0.064	-0.154	11111	1.04	38420.9442	44444
4456	5.987	-0.125	-0.654	-0.034	-0.168	11111	2.39	38424.7340	44444
4456	5.957	-0.157	-0.655	-0.066	-0.154	11111	1.04	38424.9371	44444
4456	5.983	-0.165	-0.639	-0.042	-0.159	11111	2.24	38427.7315	44444
4456	5.931	-0.141	-0.663	-0.057	-0.162	11111	1.10	38431.8521	44444
4456	5.964	-0.130	-0.672	0.000	0.000	11100	2.35	38438.6969	44400
4456	5.921	-0.174	-0.633	0.000	0.000	11100	1.09	38438.8385	44400
4456	5.944	-0.145	-0.665	-0.042	-0.157	11111	1.04	38438.8975	44444
4456	5.973	-0.145	-0.676	0.000	0.000	11100	2.45	38439.6906	44400
4456	5.979	-0.164	-0.664	0.000	0.000	11100	1.08	38439.8437	44400
4456	5.949	-0.141	-0.648	-0.037	-0.170	11111	1.04	38439.8753	44444
4456	5.961	-0.169	-0.641	0.000	0.000	11100	2.31	38440.6931	44400
4456	5.946	-0.154	-0.656	-0.037	-0.158	11111	1.04	38440.8741	44444
4456	5.954	-0.156	-0.654	0.000	0.000	11100	1.04	38441.8715	44400
4456	5.950	-0.148	-0.671	-0.060	-0.161	11111	1.07	38443.8337	44444
4456	5.950	-0.161	-0.658	0.000	0.000	11100	1.04	38443.8881	44400
4456	5.958	-0.130	-0.667	-0.044	-0.156	11111	2.29	38444.6829	44444
4456	5.965	-0.147	-0.682	-0.055	-0.167	11111	1.05	38446.8399	44444
4456	5.963	-0.167	-0.606	-0.030	-0.178	11111	1.05	38448.8371	44444
4456	5.937	-0.135	-0.660	-0.079	-0.176	11111	1.08	38449.8159	44444
4456	5.942	-0.154	-0.658	-0.069	-0.169	11111	1.04	38449.8720	44444
4456	5.954	-0.152	-0.651	-0.032	-0.178	11111	1.08	38450.8108	44444
4456	5.962	-0.151	-0.647	0.000	0.000	11100	1.08	38451.8105	44400
4456	5.937	-0.148	-0.636	-0.050	-0.179	11111	1.07	38451.8120	44444
4456	5.947	-0.144	-0.657	0.000	0.000	11100	1.04	38452.8584	22200
4456	5.922	-0.136	-0.688	-0.066	-0.169	11111	1.05	38452.8849	44444
4456	5.948	-0.144	-0.635	0.000	0.000	11100	2.04	38453.6701	44400
4456	5.939	-0.147	-0.655	-0.051	-0.164	11111	1.05	38453.8214	44444
4456	5.953	-0.148	-0.655	-0.035	-0.166	11111	1.04	38453.8704	44444
4456	5.951	-0.153	-0.645	0.000	0.000	11100	2.00	38456.6635	44400
4456	5.949	-0.154	-0.644	-0.057	-0.170	11111	1.06	38456.8086	44444
4456	0.000	-0.163	0.000	0.000	0.000	01000	1.26	38460.7281	22222
4456	5.949	-0.147	-0.654	-0.031	-0.176	11111	1.20	38460.7407	22222
4456	5.983	-0.160	-0.632	0.000	0.000	11100	1.05	38460.8594	44400
4456	5.907	-0.123	-0.656	-0.067	-0.167	11111	1.06	38460.8713	22222
4456	5.921	-0.140	-0.669	-0.049	-0.156	11111	1.06	38461.7940	22222
4456	5.955	-0.161	-0.663	-0.055	-0.258	11111	1.12	38463.8915	22222
4456	5.970	-0.153	-0.649	0.000	0.000	11100	1.19	38463.9125	22200
4456	5.955	-0.169	-0.642	0.000	0.000	11100	1.49	38463.9644	22222
4456	5.951	-0.154	-0.652	-0.076	-0.181	11111	1.09	38464.7692	44444
4456	5.998	-0.139	-0.680	0.000	0.000	11100	1.04	38464.8027	44400
4456	5.943	-0.159	-0.661	0.000	0.000	11100	1.07	38464.8674	44400
4456	5.954	-0.170	-0.661	0.000	0.000	11100	1.08	38466.7701	22200
4456	5.944	-0.169	-0.694	-0.043	-0.178	11111	1.08	38466.8628	44444
4456	5.944	-0.158	-0.643	0.000	0.000	11100	1.08	38466.8677	22200
4456	5.939	-0.155	-0.665	-0.074	-0.176	11111	1.04	38469.8239	44444
4456	5.940	-0.157	-0.680	0.000	0.000	11100	1.04	38473.7834	44400
4456	5.932	-0.153	-0.667	0.000	0.000	11100	1.09	38473.8492	44400
4456	5.942	-0.158	-0.647	0.000	0.000	11100	2.18	38474.6056	44400
4456	6.034	-0.163	-0.644	-0.052	-0.180	11111	2.04	38474.6125	44444
4456	5.946	-0.159	-0.656	0.000	0.000	11100	1.07	38474.7549	44400
4456	5.934	-0.153	-0.667	-0.045	-0.177	11111	1.04	38474.7940	44444
4456	5.947	-0.156	-0.660	0.000	0.000	11100	1.08	38474.8422	44400
4456	5.917	-0.156	-0.644	0.000	0.000	11100	1.90	38475.6177	44400
4456	5.925	-0.153	-0.670	0.000	0.000	11100	1.08	38475.7451	44400
4456	5.931	-0.151	-0.671	-0.053	-0.199	11111	1.05	38475.7640	44444
4456	5.943	-0.162	-0.655	0.000	0.000	11100	1.10	38475.8520	44400
4456	5.967	-0.158	-0.656	-0.055	-0.171	11111	1.05	38476.8132	22222
4456	5.926	-0.153	-0.645	-0.064	-0.184	11111	1.05	38481.8071	33433
4456	5.950	-0.138	-0.656	-0.045	-0.170	11111	1.06	38483.7358	22222
4456	5.931	-0.148	-0.661	-0.059	-0.163	11111	1.05	38483.7919	22222
4456	5.923	-0.137	-0.674	-0.075	-0.198	11111	1.15	38496.8129	44444
4456	5.971	-0.167	-0.668	-0.080	-0.182	11111	1.33	38496.8528	44444
4456	5.967	-0.143	-0.662	-0.057	-0.192	11111	1.04	38497.7515	22222
4456	5.951	-0.164	-0.657	0.000	0.000	11100	1.17	38499.8079	44444
4456	5.927	-0.163	-0.658	-0.081	-0.198	11111	1.04	38500.7326	22221
4456	5.929	-0.123	-0.699	-0.067	-0.166	11111	1.04	38506.6895	22222
4456	5.984	-0.157	-0.653	-0.110	-0.165	11111	1.05	38508.6706	22222
4456	5.941	-0.151	-0.665	-0.059	-0.157	11111	1.04	38510.7112	22222
4456	5.939	-0.161	-0.642	-0.073	-0.171	11111	1.09	38511.7492	44444
4456	5.924	-0.147	-0.646	-0.044	-0.196	11111	1.04	38512.7090	22222
4456	5.937	-0.160	-0.625	-0.071	-0.193	11111	1.20	38512.7827	22222
4456	5.929	-0.135	-0.672	-0.061	-0.175	11111	1.04	38513.6863	22222
4456	5.964	-0.179	-0.673	-0.075	-0.177	11111	1.04	38515.6851	44444
4456	5.926	-0.159	-0.660	-0.097	-0.169	11111	1.23	38515.7817	44444
4456	5.943	-0.150	-0.644	-0.052	-0.180	11111	2.09	38515.8671	44444
4456	5.965	-0.160	-0.648	-0.066	-0.177	11111	1.04	38517.6911	44444
4456	5.957	-0.167	-0.649	-0.085	-0.198	11111	1.10	38518.6154	22222
4456	5.948	-0.155	-0.663	-0.068	-0.183	11111	1.07	38518.7168	22222
4456	5.923	-0.135	-0.657	-0.105	-0.180	11111	1.04	38519.6679	44444
4456	5.965	-0.181	-0.663	-0.079	-0.157	11111	1.04	38521.6661	44444
4456	5.930	-0.142	-0.665	-0.065	-0.162	11111	2.69	38521.8732	44444
4456	5.950	-0.147	-0.658	-0.059	-0.179	11111	1.04	38523.6602	44444
4456	5.949	-0.141	-0.664	-0.112	-0.164	11111	1.04	38525.6498	44444
4456	5.971	-0.161	-0.660	0.000	0.000	11100	1.04	38526.6350	22200
4456	5.931	-0.146	-0.661	-0.069	-0.184	11111	1.11	38526.7172	22222
4456	5.877	-0.167	-0.638	0.000	0.000	11100	1.15	38526.7313	22200
4456	5.929	-0.149	-0.664	0.000	0.000	11100	1.05	38527.6240	22200

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4456	5.943	-0.147	-0.658	0.000	0.000	11100	1.07	38528.6898	44400
4456	5.966	-0.158	-0.632	-0.095	-0.176	11111	1.11	38528.7107	44444
4456	5.949	-0.163	-0.643	-0.072	-0.182	11111	2.43	38531.8374	44444
4456	5.990	-0.151	-0.667	-0.036	-0.188	11111	1.04	38532.6287	22222
4456	5.938	-0.173	-0.621	-0.083	-0.173	11111	1.54	38532.7813	22222
4456	5.941	-0.164	-0.663	-0.096	-0.191	11111	1.04	38533.6194	44444
4456	5.943	-0.156	-0.643	-0.070	-0.166	11111	1.34	38533.7523	44444
4456	5.949	-0.151	-0.656	-0.081	-0.172	11111	1.33	38534.7479	44444
4456	5.950	-0.160	-0.640	-0.070	-0.178	11111	1.04	38537.6403	44443
4456	5.945	-0.154	-0.658	-0.070	-0.175	11111	1.13	38543.6783	22222
4456	5.943	-0.147	-0.662	-0.054	-0.184	11111	1.05	38544.6275	44444
4456	5.911	-0.153	-0.641	-0.098	-0.172	11111	1.11	38545.6654	22222
4456	5.977	-0.169	-0.650	-0.042	-0.177	11111	1.12	38553.6458	44444
4456	5.960	-0.160	-0.657	-0.054	-0.164	11111	1.20	38555.6645	44444
4456	5.941	-0.148	-0.661	-0.065	-0.171	11111	1.16	38556.6529	44444
4456	5.947	-0.145	-0.662	-0.055	-0.173	11111	1.12	38557.6371	44444
4456	5.951	-0.153	-0.665	-0.283	-0.149	11101	1.17	38559.6463	44444
4456	5.939	-0.156	-0.650	-0.045	-0.170	11111	1.17	38560.6427	22222
4456	5.983	-0.167	-0.650	-0.038	-0.167	11111	1.15	38561.6353	22222
4456	5.910	-0.172	-0.652	-0.090	-0.166	11111	1.26	38562.6591	22222
4456	5.978	-0.175	-0.645	0.000	0.000	11100	1.04	38763.9962	22200
4456	5.912	-0.092	-0.710	0.000	0.000	11100	1.05	38771.9583	44400
4456	5.956	-0.158	-0.673	0.000	0.000	11100	1.04	38783.9494	44444
4456	5.975	-0.182	-0.653	-0.051	-0.132	11111	2.09	38784.7678	44444
4456	5.940	-0.157	-0.647	-0.086	-0.161	11111	1.09	38784.8960	44444
4456	5.939	-0.160	-0.665	-0.044	-0.160	11111	1.04	38786.9463	44444
4456	5.933	-0.155	-0.666	-0.036	-0.150	11111	1.12	38788.0042	44444
4456	5.933	-0.147	-0.662	-0.065	-0.166	11111	1.04	38789.9204	44444
4456	6.008	-0.214	-0.604	-0.015	-0.134	11111	1.09	38790.8725	22222
4456	5.938	-0.150	-0.664	-0.057	-0.163	11111	1.05	38791.8993	44444
4456	5.934	-0.176	-0.646	-0.075	-0.182	11111	1.04	38791.9373	22221
4456	5.968	-0.174	-0.651	-0.022	-0.215	11111	1.06	38805.8551	44444
4456	5.975	-0.165	-0.677	-0.022	-0.168	11111	1.07	38805.9312	44444
4456	5.954	-0.153	0.000	0.000	0.000	11000	1.04	38809.8891	44400
4456	5.928	-0.145	-0.666	0.000	0.000	11100	2.35	38810.6783	44400
4456	5.941	-0.155	-0.670	0.000	0.000	11100	1.05	38810.8970	44400
4456	5.960	-0.151	-0.672	0.000	0.000	11100	1.04	38811.8771	44400
4456	5.960	-0.141	-0.666	-0.051	-0.179	11111	1.09	38818.7990	22222
4456	5.954	-0.165	-0.652	-0.038	-0.185	11111	1.07	38822.7993	44444
4456	5.933	-0.158	-0.664	-0.059	-0.182	11111	1.20	38822.9339	44444
4456	5.957	-0.147	-0.666	-0.055	-0.169	11111	1.06	38823.8063	44444
4456	5.961	-0.148	-0.664	-0.045	-0.172	11111	1.10	38823.8978	44444
4456	5.966	-0.159	-0.656	-0.042	-0.178	11111	1.06	38824.7972	44444
4456	5.946	-0.147	-0.666	-0.068	-0.161	11111	1.05	38824.8607	44444
4456	5.959	-0.144	-0.662	-0.056	-0.177	11111	1.08	38825.7843	44444
4456	5.952	-0.156	-0.666	-0.053	-0.178	11111	1.04	38825.8420	44444
4456	5.962	-0.180	-0.648	-0.054	-0.171	11111	1.07	38826.7860	44444
4456	5.938	-0.151	-0.672	-0.074	-0.175	11111	1.04	38826.8411	44444
4456	5.952	-0.165	-0.675	-0.044	-0.177	11111	1.07	38845.7341	44444
4456	5.971	-0.148	-0.638	-0.034	-0.172	11111	1.18	38845.8656	44444
4456	5.930	-0.153	-0.657	-0.074	-0.181	11111	1.04	38846.7756	44444
4456	5.946	-0.178	-0.644	-0.055	-0.174	11111	1.04	38846.7961	44444
4456	5.949	-0.167	-0.658	-0.069	-0.177	11111	1.17	38849.8522	44444
4456	5.948	-0.145	-0.666	-0.074	-0.183	11111	1.25	38849.8714	44444
4456	5.946	-0.128	-0.684	-0.029	-0.173	11111	1.04	38858.7603	22222
4456	5.955	-0.172	-0.670	0.000	0.000	11100	1.04	38862.7211	22200
4456	5.955	-0.149	-0.626	0.000	0.000	11100	1.04	38862.7328	22200
4456	5.946	-0.157	-0.650	0.000	0.000	11100	1.07	38864.7695	22200
4456	5.937	-0.161	-0.649	-0.075	-0.169	11111	1.04	38870.7281	44444
4456	5.943	-0.152	-0.657	-0.091	-0.166	11111	1.07	38871.7505	44444
4456	5.948	-0.168	-0.630	-0.072	-0.174	11111	2.08	38871.8922	44444
4456	5.937	-0.134	-0.629	-0.075	-0.191	11111	1.04	38872.6883	44444
4456	5.942	-0.150	-0.649	0.000	0.000	11100	1.08	38878.6370	22200
4456	5.920	-0.160	-0.654	0.000	0.000	11100	1.04	38879.6666	44400
4456	5.977	-0.155	-0.645	0.000	0.000	11100	1.07	38881.6394	44400
4456	5.957	-0.179	-0.623	0.000	0.000	11100	2.21	38881.8706	44400
4456	5.931	-0.151	-0.659	0.000	0.000	11100	1.07	38882.6376	44400
4456	5.940	-0.157	-0.654	0.000	0.000	11100	1.04	38882.6918	44400
4456	5.961	-0.163	-0.655	0.000	0.000	11100	1.04	38899.6276	44400
4456	5.921	-0.157	-0.660	0.000	0.000	11100	1.04	38900.6431	44400
4456	5.943	-0.166	-0.628	-0.074	-0.192	11111	1.04	38903.6309	44444
4456	5.943	-0.163	-0.642	-0.062	-0.196	11111	1.05	38904.6436	44422
4456	5.916	-0.133	-0.654	-0.086	-0.185	11111	1.06	38906.6489	44444
4456	5.929	-0.166	-0.644	-0.082	-0.180	11111	1.06	38908.6434	44444
4456	5.936	-0.141	-0.663	-0.082	-0.177	11111	1.10	38910.6614	44444
4456	5.965	-0.159	-0.646	-0.052	-0.185	11111	1.11	38911.6600	44444
4456	5.934	-0.180	-0.658	-0.076	-0.179	11111	1.10	38912.6560	44444
4456	5.983	-0.147	-0.643	-0.032	-0.140	11111	1.18	39097.0045	44444
4456	5.970	-0.175	-0.663	-0.016	-0.171	11111	1.07	39128.9633	44444
4456	5.976	-0.175	-0.665	-0.014	-0.150	11111	1.04	39128.9864	44444
4456	5.968	-0.148	-0.675	-0.014	-0.161	11111	1.06	39129.9671	44444
4468	4.698	-0.084	-0.174	0.	0.	11100	1.35	38063.9081	11212
4468	4.711	-0.081	-0.147	0.023	-0.058	11111	1.34	38379.0599	44444
4468	4.697	-0.071	-0.169	0.001	-0.084	11111	1.35	38393.0028	44444
4471	4.306	1.011	0.734	0.752	0.506	11111	1.24	38108.8504	44444
4471	4.277	1.034	0.747	0.663	0.562	11111	1.18	38136.7213	44444
4471	4.318	0.992	0.739	0.754	0.491	11111	1.18	38393.0109	44444
4496	5.309	0.818	0.176	0.622	0.359	11111	1.00	38424.9261	44444
4496	5.330	0.730	0.266	0.600	0.360	11111	1.16	38452.9609	44444
4496	5.377	0.747	0.198	0.000	0.000	11100	1.06	38792.8614	22200
4514	4.734	0.968	0.710	0.787	0.482	11111	1.70	38080.9351	44444
4514	4.700	0.964	0.719	0.702	0.476	11111	1.57	38107.8096	34444
4514	4.712	0.985	0.723	0.730	0.484	11111	1.60	38432.9441	44444
4514	4.715	0.963	0.738	6.501	0.000	11100	1.57	38450.8753	44444
4514	4.692	1.008	0.710	0.721	0.456	11111	1.50	38452.8745	44444
4517	4.045	1.523	1.805	1.264	1.085	11111	1.14	38067.9558	44444
4517	4.087	1.471	1.777	1.301	0.975	11111	1.12	38142.6887	44444
4517	4.033	1.486	1.772	1.208	0.986	11111	1.11	38389.0461	44444
4518	3.769	1.143	1.207	0.989	0.601	11111	1.04	38064.9169	12222
4518	3.720	1.157	1.138	0.828	0.591	11111	1.04	38148.7013	44444
4518	3.718	1.170	1.157	0.752	0.610	11111	1.26	38203.6719	44444
4518	3.687	1.222	1.152	0.000	0.000	11100	1.07	38464.8812	44400
4518	3.698	1.183	1.176	0.000	0.000	11100	1.07	38466.8715	22200

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4527	4.521	0.569	0.254	0.557	0.376	11111	1.04	38088.8928	22222
4527	4.545	0.548	0.288	0.520	0.332	11111	1.18	38161.7533	44444
4527	4.503	0.547	0.266	0.526	0.368	11111	1.04	38432.9533	44444
4527	4.512	0.554	0.282	0.510	0.372	11111	1.02	38438.9064	44444
4527	4.508	0.562	0.297	0.516	0.349	11111	1.10	38440.9646	44444
4534	0.	0.090	0.	0.090	-0.040	01000	1.58	38061.7894	12111
4534	2.158	0.077	0.084	0.116	0.020	11111	1.05	38063.9295	11212
4534	2.131	0.042	0.098	0.077	0.001	11111	1.06	38089.8827	22222
4534	2.140	0.074	0.070	-1.495	1.428	11100	1.10	38135.7846	43411
4534	2.140	0.076	0.048	0.107	-0.007	11111	1.12	38142.7756	44444
4534	2.130	0.100	0.050	-0.004	0.028	11111	1.27	38179.7163	44444
4534	2.122	0.091	0.090	-0.014	0.024	11111	1.08	38183.6436	44421
4534	2.129	0.108	0.035	0.025	0.042	11111	3.14	38183.8162	44421
4534	2.113	0.087	0.080	0.000	0.000	11100	1.10	38464.8848	44400
4534	2.088	0.114	0.076	0.028	0.015	11111	1.09	38480.7429	44444
4534	2.205	0.038	0.185	0.000	0.000	11100	1.13	38792.8664	22200
4540	3.609	0.541	0.145	0.453	0.307	11111	1.16	38063.9201	11212
4540	3.596	0.533	0.136	0.500	0.284	11111	1.18	38089.8914	22222
4540	3.610	0.567	0.100			11100	1.21	38135.7783	43411
4540	3.608	0.587		0.495	0.274	11011	1.16	38136.7283	44444
4540	3.601	0.561	0.114	0.558	0.260	11111	1.27	38142.7831	44444
4540	3.616	0.552	0.132	0.293	0.288	11111	1.27	38176.6908	44444
4540	3.630	0.558	0.089	0.212	0.275	11111	2.08	38176.7799	44444
4540	3.602	0.573	0.118	0.476	0.263	11111	1.28	38178.6881	44444
4540	3.595	0.544	0.141	0.474	0.283	11111	1.23	38183.6567	44421
4540	3.619	0.537	0.123	0.532	0.328	11111	3.92	38183.8079	44421
4540	3.576	0.543	0.132	0.000	0.000	11100	1.23	38464.8882	44400
4540	3.549	0.559	0.094	0.442	0.276	11111	1.19	38480.7507	44444
4540	3.598	0.558	0.080	0.428	0.261	11111	1.18	38496.7737	44444
4550	6.472	0.752	0.185	0.090	-0.040	11100	1.10	37835.6159	22222
4550	6.482	0.752	0.178	0.664	0.427	11111	1.12	37835.6239	22222
4550	6.472	0.751	0.177	0.667	0.448	11111	1.15	37836.6342	22222
4550	6.382	0.790	0.192	0.596	0.471	11111	1.05	38089.9191	22222
4550	6.423	0.744	0.198	0.595	0.480	11111	1.09	38142.7923	44444
4550	6.424	0.725	0.218	0.624	0.451	11111	1.07	38143.7834	44444
4550	6.431	0.735	0.234	0.667	0.438	11111	1.01	38144.6943	22222
4550	6.423	0.717	0.193	0.584	0.480	11111	1.02	38147.6716	44444
4550	6.460	0.750	0.170	0.716	0.435	11111	1.11	38157.7614	12211
4550	6.456	0.756	0.199	0.646	0.437	11111	1.01	38161.6766	44444
4550	6.455	0.749	0.192	0.658	0.439	11111	1.01	38162.6752	44444
4550	6.466	0.732	0.041	0.000	0.000	11100	1.07	38165.6472	22200
4550	6.443	0.752	0.203	0.653	0.456	11111	1.06	38180.6768	44444
4550	6.443	0.736	0.194	0.635	0.445	11111	1.85	38356.9305	44444
4550	6.451	0.749	0.171	0.650	0.440	11111	2.09	38361.9020	44444
4550	6.446	0.749	0.175	0.651	0.437	11111	2.51	38366.8686	44444
4550	6.423	0.765	0.158	0.676	0.441	11111	1.07	38368.0299	44444
4550	6.476	0.756	0.177	0.697	0.458	11111	2.54	38368.8620	44444
4550	6.423	0.770	0.157	0.674	0.473	11111	1.04	38369.0473	44444
4550	6.431	0.756	0.158	0.661	0.460	11111	2.70	38369.8535	44444
4550	6.454	0.755	0.162	0.678	0.459	11111	1.13	38370.9996	44444
4550	6.429	0.767	0.174	0.690	0.487	11111	1.02	38378.0372	44444
4550	6.461	0.758	0.158	0.689	0.460	11111	1.01	38382.0424	44444
4550	6.428	0.741	0.154	0.695	0.451	11111	1.05	38383.0034	22222
4550	6.435	0.758	0.171	0.663	0.446	11111	1.79	38385.8560	44444
4550	6.433	0.752	0.160	0.684	0.439	11111	1.01	38386.0684	44444
4550	6.439	0.750	0.181	0.656	0.441	11111	1.97	38386.8407	44444
4550	6.438	0.751	0.177	0.673	0.448	11111	1.01	38387.0606	44444
4550	6.451	0.744	0.178	0.644	0.448	11111	1.01	38389.0664	44444
4550	6.458	0.756	0.162	0.688	0.446	11111	1.05	38390.9790	44444
4550	6.476	0.759	0.184	0.699	0.452	11111	2.02	38392.8215	44444
4550	6.417	0.753	0.168	0.655	0.473	11111	1.01	38393.0362	44444
4550	6.462	0.765	0.146	0.691	0.451	11111	1.01	38393.0405	44444
4550	6.471	0.749	0.127	0.717	0.467	11111	1.03	38398.0618	44444
4550	6.403	0.773	0.177	-0.014	0.000	11100	2.24	38400.7873	44444
4550	6.428	0.747	0.153	0.702	0.462	11111	1.01	38404.0198	44444
4550	6.431	0.759	0.170	0.674	0.459	11111	2.49	38404.7657	44444
4550	6.414	0.743	0.182	0.635	0.445	11111	2.38	38410.7537	44444
4550	6.452	0.757	0.222	0.621	0.486	11111	2.56	38415.7330	44444
4550	6.410	0.752	0.165	0.584	0.450	11111	1.00	38415.9680	44444
4550	6.463	0.760	0.178	0.684	0.477	11111	2.08	38419.7439	44444
4550	6.455	0.754	0.174	0.717	0.451	11111	2.30	38420.7300	44444
4550	6.402	0.758	0.167	0.660	0.466	11111	1.00	38420.9543	44444
4550	6.435	0.767	0.176	0.675	0.468	11111	2.30	38424.7189	44444
4550	6.411	0.756	0.177	0.650	0.456	11111	1.00	38424.9454	44444
4550	6.443	0.751	0.180	0.660	0.460	11111	2.06	38427.7235	44444
4550	6.404	0.757	0.164	0.673	0.444	11111	1.01	38431.9435	44444
4550	6.510	0.772	0.155	0.700	0.453	11111	2.24	38432.7002	44444
4550	6.420	0.747	0.158	0.670	0.465	11111	1.01	38432.9339	44444
4550	6.407	0.750	0.158	0.690	0.424	11111	1.06	38432.9867	44444
4550	6.412	0.757	0.163	0.674	0.453	11111	1.16	38433.0247	44444
4550	6.445	0.717	0.202	0.000	0.000	11100	2.13	38438.6891	44400
4550	6.491	0.753	0.159	0.000	0.000	11100	1.01	38438.9187	44400
4550	6.430	0.750	0.151	0.657	0.450	11111	1.02	38438.9341	44444
4550	6.397	0.743	0.221	0.000	0.000	11100	2.15	38439.6855	44400
4550	0.000	0.775	0.000	0.000	0.000	01000	2.04	38439.6913	44444
4550	6.495	0.755	0.099	0.000	0.000	11100	1.01	38439.9147	44400
4550	6.428	0.762	0.167	0.668	0.436	11111	1.01	38440.9139	44444
4550	6.478	0.748	0.157	0.000	0.000	11100	1.02	38440.9291	44400
4550	6.419	0.755	0.161	0.666	0.438	11111	1.08	38440.9751	44444
4550	6.455	0.756	0.172	0.000	0.000	11100	1.01	38441.8754	44400
4550	6.447	0.748	0.164	0.677	0.447	11111	1.01	38443.8685	44444
4550	6.450	0.751	0.190	0.000	0.000	11100	1.00	38443.8911	44400
4550	6.456	0.777	0.183	0.681	0.442	11111	2.17	38444.6710	44444
4550	6.425	0.765	0.164	0.687	0.437	11111	1.03	38444.9316	44444
4550	6.432	0.744	0.210	0.684	0.443	11111	1.01	38446.8931	44444
4550	6.454	0.749	0.167	0.680	0.447	11111	1.05	38446.9411	44444
4550	6.426	0.762	0.160	0.671	0.451	11111	1.01	38448.8866	44444
4550	6.450	0.750	0.158	0.660	0.448	11111	1.12	38448.9686	22121
4550	6.455	0.741	0.186	0.670	0.444	11111	1.04	38449.9281	44444
4550	6.444	0.751	0.157	0.638	0.454	11111	1.13	38449.9667	44444
4550	6.413	0.764	0.170	0.657	0.449	11111	1.01	38450.8481	44444
4550	6.429	0.758	0.173	0.000	0.000	11100	1.01	38450.8871	44444
4550	6.440	0.764	0.190	0.000	0.000	11100	1.04	38451.8165	44400
4550	6.443	0.752	0.156	0.000	0.000	11100	1.00	38452.8642	22200
4550	6.427	0.749	0.168	0.649	0.447	11111	1.01	38452.8944	44444
4550	6.421	0.764	0.177	0.654	0.442	11111	1.07	38452.9331	44444
4550	6.428	0.752	0.178	0.651	0.442	11111	1.19	38452.9772	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4550	6.451	0.747	0.169	0.000	0.000	11100	2.46	38453.6330	44400
4550	6.455	0.731	0.172	0.684	0.443	11111	1.01	38453.8812	44444
4550	6.423	0.751	0.175	0.649	0.440	11111	1.06	38453.9278	44444
4550	6.450	0.748	0.174	0.000	0.000	11100	1.92	38456.6528	44400
4550	6.499	0.736	0.113	0.000	0.000	11100	1.03	38459.8917	44400
4550	6.447	0.747	0.170	0.693	0.435	11111	1.14	38460.7502	22222
4550	6.449	0.750	0.169	0.000	0.000	11100	1.01	38460.8694	44400
4550	6.402	0.759	0.179	0.654	0.460	11111	1.03	38461.8029	22222
4550	6.424	0.758	0.170	0.645	0.454	11111	1.06	38463.9005	22222
4550	6.456	0.751	0.114	0.000	0.000	11100	1.09	38463.9161	22200
4550	6.436	0.734	0.175	0.000	0.000	11100	1.29	38463.9698	22222
4550	6.440	0.755	0.166	0.000	0.000	11100	1.01	38464.8069	44400
4550	6.451	0.746	0.172	0.665	0.438	11111	1.08	38464.9090	44444
4550	6.442	0.743	0.133	0.672	0.443	11111	1.03	38466.8684	44444
4550	6.438	0.775	0.165	0.000	0.000	11100	1.03	38466.8756	22200
4550	6.421	0.744	0.195	0.000	0.000	11100	1.01	38473.7872	44400
4550	6.425	0.751	0.208	0.000	0.000	11100	1.03	38473.8530	44400
4550	6.454	0.759	0.209	0.000	0.000	11100	1.15	38473.9089	44400
4550	6.458	0.751	0.174	0.000	0.000	11100	1.99	38474.5993	44400
4550	6.542	0.753	0.171	0.680	0.429	11111	1.92	38474.6037	44444
4550	6.439	0.736	0.159	0.660	0.437	11111	1.00	38474.8066	44444
4550	6.439	0.755	0.194	0.000	0.000	11100	1.02	38474.8388	44400
4550	6.455	0.759	0.185	0.000	0.000	11100	1.11	38474.8938	44400
4550	6.423	0.750	0.202	0.000	0.000	11100	1.01	38475.7931	44400
4550	6.443	0.738	0.177	0.691	0.435	11111	1.06	38476.8620	22222
4550	6.420	0.726	0.175	0.657	0.449	11111	1.05	38480.8508	44444
4550	6.458	0.769	0.151	0.683	0.442	11111	1.01	38497.7592	22222
4550	6.446	0.745	0.201	0.684	0.442	11111	1.20	38497.8586	22222
4550	6.428	0.752	0.147	0.832	0.413	11111	1.02	38500.7702	22221
4550	6.449	0.750	0.161	0.660	0.494	11111	1.20	38500.8493	22221
4550	6.442	0.749	0.151	0.666	0.457	11111	1.10	38506.8017	22222
4550	6.512	0.743	0.152	0.651	0.448	11111	1.01	38508.6908	22222
4550	6.446	0.766	0.156	0.697	0.445	11111	1.03	38509.7575	44444
4550	6.442	0.752	0.148	0.672	0.454	11111	1.09	38510.7866	22222
4550	6.433	0.748	0.168	0.678	0.435	11111	1.04	38511.7576	44444
4550	6.439	0.758	0.144	0.644	0.421	11111	1.01	38512.7196	22222
4550	6.451	0.811	0.081	0.605	0.485	11111	1.06	38512.7687	22222
4550	6.438	0.743	0.151	0.654	0.449	11111	1.01	38513.6950	22222
4550	6.457	0.750	0.146	0.647	0.450	11111	1.00	38515.6927	44444
4550	6.432	0.749	0.161	0.627	0.454	11111	1.14	38515.7911	44444
4550	6.460	0.764	0.146	0.659	0.456	11111	1.05	38517.7490	44444
4550	0.000	0.685	0.000	0.000	0.000	01000	1.01	38519.6736	44444
4550	6.425	0.777	0.152	0.663	0.444	11111	2.01	38519.8934	44444
4550	6.465	0.749	0.156	0.655	0.438	11111	1.01	38523.6916	44444
4550	6.449	0.746	0.160	0.645	0.442	11111	1.04	38523.7200	44444
4550	6.452	0.778	0.108	0.686	0.448	11111	2.22	38523.8940	44444
4550	6.466	0.755	0.162	0.693	0.438	11111	1.01	38525.6565	44444
4550	6.442	0.742	0.167	0.683	0.434	11111	1.01	38525.6911	44444
4550	6.451	0.750	0.180	0.000	0.000	11100	1.01	38526.6420	22200
4550	6.433	0.760	0.157	0.691	0.448	11111	1.01	38526.6608	22222
4550	6.449	0.749	0.183	0.000	0.000	11100	1.06	38526.7256	22200
4550	6.454	0.741	0.188	0.000	0.000	11100	1.02	38527.6287	22200
4550	6.510	0.743	0.153	0.704	0.433	11111	1.05	38528.7183	44444
4550	6.452	0.759	0.176	0.664	0.419	11111	1.56	38531.8237	44444
4550	6.507	0.751	0.155	0.703	0.449	11111	1.01	38532.6218	22222
4550	6.436	0.743	0.170	0.652	0.444	11111	1.33	38532.7895	22222
4550	6.439	0.730	0.164	0.630	0.447	11111	1.01	38533.6299	44444
4550	6.440	0.749	0.166	0.638	0.465	11111	1.20	38533.7596	44444
4550	6.485	0.734	0.153	0.664	0.454	11111	1.01	38534.6307	44444
4550	6.447	0.734	0.161	0.649	0.450	11111	1.19	38534.7547	44444
4550	6.450	0.750	0.170	0.660	0.428	11111	1.01	38537.6500	44443
4550	6.445	0.765	0.145	0.657	0.434	11111	1.02	38544.6453	44444
4550	6.430	0.765	0.149	0.635	0.453	11111	1.06	38545.6761	22222
4550	6.451	0.747	0.154	0.652	0.446	11111	1.06	38553.6543	44444
4550	6.431	0.763	0.161	0.636	0.445	11111	1.11	38555.6728	44444
4550	6.441	0.755	0.165	0.646	0.455	11111	1.10	38556.6641	44444
4550	6.475	0.720	0.176	0.671	0.450	11111	1.06	38557.6450	44444
4550	6.459	0.718	0.169	0.687	0.412	11111	1.10	38559.6565	44444
4550	6.432	0.754	0.163	0.649	0.451	11111	1.09	38560.6501	22222
4550	6.458	0.759	0.166	0.649	0.451	11111	1.08	38561.6437	22222
4550	6.424	0.745	0.138	0.637	0.444	11111	1.15	38562.6661	22222
4550	6.474	0.733	0.177	0.717	0.452	11111	1.37	38722.9802	22222
4550	6.411	0.802	0.179	0.629	0.470	11111	2.27	38723.9010	44444
4550	6.458	0.759	0.170	0.000	0.000	11100	1.01	38763.9911	22200
4550	6.423	0.780	0.130	0.000	0.000	11100	2.28	38771.7694	44400
4550	6.442	0.719	0.193	0.000	0.000	11100	1.02	38771.9629	44400
4550	6.437	0.746	0.217	0.000	0.000	11100	1.01	38783.9536	44444
4550	6.423	0.774	0.172	0.670	0.489	11111	1.01	38784.9612	44444
4550	6.457	0.735	0.179	0.675	0.455	11111	1.01	38786.9585	44444
4550	6.433	0.740	0.157	0.682	0.476	11111	1.03	38787.9916	44444
4550	6.436	0.736	0.172	0.659	0.449	11111	1.03	38789.9056	44444
4550	6.449	0.739	0.165	0.679	0.437	11111	1.01	38789.9366	44444
4550	6.496	0.752	0.245	0.475	0.436	11111	1.05	38790.8842	22222
4550	6.436	0.747	0.182	0.669	0.458	11111	1.02	38791.9099	44444
4550	6.450	0.750	0.166	0.666	0.452	11111	1.01	38791.9270	22221
4550	6.427	0.755	0.171	0.680	0.444	11111	1.12	38792.8481	44444
4550	6.486	0.744	0.200	0.692	0.466	11111	1.00	38795.9287	44444
4550	6.427	0.752	0.134	0.679	0.451	11111	1.11	38796.0140	44444
4550	6.407	0.774	0.078	0.651	0.471	11111	1.09	38803.8287	44444
4550	6.421	0.761	0.191	0.637	0.452	11111	1.01	38805.8732	44444
4550	6.447	0.780	0.153	0.678	0.436	11111	1.01	38805.9219	44444
4550	6.451	0.748	0.175	0.000	0.000	11100	2.14	38809.6729	44400
4550	6.450	0.751	0.166	0.000	0.000	11100	1.01	38809.8974	44400
4550	6.520	0.675	0.200	0.000	0.000	11100	2.14	38810.6701	44400
4550	6.465	0.750	0.175	0.000	0.000	11100	1.01	38810.9008	44400
4550	6.467	0.767	0.192	0.000	0.000	11100	1.01	38811.8729	44400
4550	6.460	0.760	0.158	0.689	0.449	11111	1.05	38818.9213	22222
4550	6.432	0.748	0.179	0.670	0.422	11111	1.03	38822.8105	44444
4550	6.409	0.747	0.175	0.640	0.460	11111	1.13	38822.9462	44444
4550	6.430	0.743	0.193	0.641	0.436	11111	1.02	38823.8159	44444
4550	6.438	0.761	0.168	0.659	0.444	11111	1.05	38823.9066	44444
4550	6.450	0.748	0.176	0.665	0.440	11111	1.03	38824.8072	44444
4550	6.435	0.740	0.172	0.646	0.454	11111	1.01	38824.8687	44444
4550	6.452	0.757	0.161	0.670	0.446	11111	1.04	38825.7944	44444
4550	6.438	0.748	0.177	0.653	0.443	11111	1.01	38825.8513	44444
4550	6.441	0.752	0.162	0.688	0.406	11111	1.02	38826.8049	44444
4550	6.430	0.750	0.170	0.654	0.447	11111	1.01	38826.8486	44444
4550	6.427	0.748	0.142	0.650	0.436	11111	1.04	38845.7422	44444
4550	6.450	0.758	0.188	0.661	0.459	11111	1.06	38845.8570	44444
4550	6.438	0.738	0.178	0.649	0.445	11111	1.01	38846.7844	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4550	6.441	0.755	0.169	0.648	0.448	11111	1.01	38846.8055	44444
4550	6.439	0.745	0.176	0.654	0.447	11111	1.10	38849.8609	44444
4550	6.429	0.752	0.172	0.621	0.458	11111	1.15	38849.8801	44444
4550	6.463	0.768	0.175	0.703	0.450	11111	1.01	38858.7507	22222
4550	6.439	0.751	0.186	0.000	0.000	11100	1.01	38862.7268	22200
4550	6.461	0.754	0.179	0.000	0.000	11100	1.01	38862.7397	22200
4550	6.445	0.757	0.179	0.000	0.000	11100	1.02	38864.7761	22200
4550	6.459	0.750	0.158	0.645	0.444	11111	1.01	38870.7385	44444
4550	6.440	0.730	0.162	0.662	0.458	11111	2.17	38870.9413	44444
4550	6.465	0.755	0.156	0.653	0.456	11111	1.03	38871.7671	44444
4550	6.432	0.763	0.157	0.672	0.446	11111	1.04	38872.7671	44444
4550	6.413	0.727	0.154	0.615	0.462	11111	2.36	38872.9448	44444
4550	6.455	0.745	0.173	0.000	0.000	11100	1.05	38878.6444	22200
4550	6.437	0.742	0.174	0.000	0.000	11100	1.01	38879.6821	44400
4550	6.470	0.768	0.204	0.000	0.000	11100	1.02	38881.6569	44400
4550	6.440	0.739	0.186	0.000	0.000	11100	1.04	38882.6417	44400
4550	6.444	0.738	0.188	0.000	0.000	11100	1.01	38882.6958	44400
4550	6.440	0.735	0.174	0.000	0.000	11100	1.01	38900.6483	44400
4550	6.465	0.764	0.152	0.672	0.446	11111	1.01	38903.6404	44444
4550	6.461	0.753	0.137	0.661	0.432	11111	1.01	38904.6506	44422
4550	6.453	0.743	0.159	0.662	0.452	11111	1.02	38906.6578	44444
4550	6.433	0.738	0.180	0.645	0.433	11111	1.02	38908.6549	44444
4550	6.445	0.749	0.180	0.648	0.454	11111	1.04	38910.6679	44444
4550	6.474	0.748	0.169	0.651	0.455	11111	1.05	38911.6666	44444
4550	6.430	0.723	0.175	0.656	0.435	11111	1.06	38912.6719	44444
4550	6.452	0.759	0.160	0.681	0.462	11111	1.13	39097.0118	44444
4550	6.412	0.771	0.171	0.665	0.452	11111	1.07	39128.9491	44444
4550	6.426	0.760	0.175	0.666	0.467	11111	1.03	39128.9749	44444
4554	2.446	-0.012	0.040	0.004	-0.042	11111	1.09	38078.9275	12222
4554	2.480	-0.009				11000	1.32	38080.0253	12221
4554	2.414	0.039	0.032	-0.081	-0.041	11111	1.22	38204.6562	44444
4554	2.339	0.021	0.051			11100	2.39	38204.8023	44444
4554	2.484	-0.029	0.064	0.049	-0.010	11111	1.08	38438.9144	44444
4554	2.440	0.003	0.038	0.037	-0.030	11111	1.18	38440.9958	44444
4589	4.671	0.146	0.119	0.193	0.015	11111	1.11	38064.9257	12222
4589	4.680	0.104	0.063	0.149	0.065	11111	1.11	38389.0558	44444
4589	4.654	0.132	0.124	0.135	0.046	11111	1.26	38392.9541	44444
4608	4.119	1.029	0.665	0.768	0.469	11111	1.09	38063.9379	11212
4608	4.107	0.975	0.652	0.686	0.549	11111	1.09	38136.7344	44444
4608	4.125	0.964	0.661	0.765	0.489	11111	1.14	38183.6635	44421
4608	4.119	0.997	0.610	0.713	0.448	11111	1.38	38206.6612	44444
4608	4.111	0.994	0.615	0.742	0.500	11111	1.17	38460.7925	22222
4623	3.983	0.354	-0.002	0.305	0.157	11111	1.83	38064.9358	12222
4623	4.004	0.338	0.016	0.290	0.167	11111	1.83	38107.8274	34444
4623	4.005	0.316	-0.059	0.290	0.201	11111	2.00	38183.6708	44421
4623	4.026	0.323	-0.051	0.332	0.189	11111	1.96	38466.8890	44444
4623	4.010	0.323	-0.030	0.277	0.185	11111	1.91	38469.8703	44444
4630	2.982	1.371	1.435	0.953	0.646	11111	1.78	38083.8562	44444
4630	2.975	1.385	1.455	0.943	0.634	11111	1.76	38152.7245	44444
4630	2.982	1.305	1.492	0.871	0.647	11111	1.92	38183.6779	44421
4630	2.982	1.330	1.482	0.940	0.642	11111	1.88	38466.8959	44444
4630	2.982	1.317	1.493	0.926	0.658	11111	1.83	38469.8771	44444
4633	6.042	0.087	0.002	0.000	0.000	11100	1.04	38165.6729	22200
4660	3.314	0.105	0.046	0.083	0.011	11111	1.12	38108.8688	44444
4660	3.336	0.027	0.077	0.057	-0.002	11111	1.10	38139.7468	44444
4660	3.348	0.055	0.073	0.154	-0.062	11111	1.18	38161.7606	44444
4660	3.324	0.064	0.123	0.041	-0.011	11111	1.15	38186.6771	44443
4660	0.	0.129	0.042	0.034	-0.032	01111	1.23	38207.6584	02222
4660	3.301	0.059	0.066	-0.035	0.103	11111	1.26	38209.6626	44433
4662	2.570	-0.098	-0.338	-0.045	-0.090	11111	1.61	38080.9422	44444
4662	2.573	-0.136	-0.362	-0.110	-0.102	11111	1.55	38107.8210	34444
4662	2.532	-0.079	-0.342	0.015	-0.138	11111	1.60	38143.7664	44444
4662	0.	-0.143	0.	0.090	-0.040	01000	1.62	38144.7693	22222
4662	2.576	-0.139	-0.314	0.148	-0.159	11100	1.64	38144.7746	22222
4662	2.571	-0.111	-0.357	-0.052	-0.099	11111	1.56	38147.7356	44444
4662	2.573	-0.101	-0.357	-0.146	-0.095	11111	1.70	38176.7005	44444
4662	2.571	-0.109	-0.364	-0.088	-0.087	11111	1.74	38180.6970	44444
4662	2.561	-0.108	-0.338	-0.083	-0.074	11111	1.77	38189.6758	44443
4662	2.606	-0.093	-0.343	-0.003	-0.099	11111	1.54	38438.9243	44444
4662	2.608	-0.095	-0.341	0.001	-0.112	11111	1.55	38453.8893	44444
4689	3.898	0.033	0.071	0.116	-0.010	11111	1.18	38064.9639	12222
4689	3.892	0.015	0.053	0.100	0.	11111	1.18	38148.7260	44444
4689	3.902	0.004	0.094	0.069	-0.040	11110	1.18	38166.6662	44444
4689	3.905	0.005	0.075	0.058	0.021	11111	1.26	38187.6696	44443
4689	3.913	0.026	0.047	0.079	-0.012	11111	1.19	38452.9046	44444
4689	3.891	0.041	0.060	0.059	-0.021	11111	1.21	38453.9187	44444
4695	4.967	1.187	1.123		0.609	11101	2.14	38344.0207	44444
4695	4.956	1.193	1.158	0.872	0.614	11111	1.33	38392.9630	44444
4695	4.938	1.183	0.000	0.000	0.000	11000	1.15	38397.0569	44444
4695	4.995	1.153	1.158	0.866	0.608	11111	1.14	38523.6995	44444
4695	4.988	1.164	1.168	0.917	0.608	11111	1.16	38525.7177	44444
4697	4.749	1.046	0.801			11100	1.03	38063.9596	11212
4697	4.746	1.011	0.806	0.837	0.499	11111	1.04	38116.7888	22222
4697	4.720	1.021	0.759	0.764	0.545	11111	1.04	38152.7327	44444
4697	4.738	0.987	0.816	0.794	0.506	11111	1.04	38187.6303	44443
4697	4.757	0.988	0.784	0.767	0.520	11111	1.06	38449.9373	44444
4697	4.739	1.005	0.779	0.767	0.524	11111	1.09	38452.9423	44444
4707	4.823	0.460	0.252	0.527	0.318	11111	1.03	38088.9272	22222
4707	4.790	0.513	0.264	0.526	0.333	11111	1.02	38152.7425	44444
4707	4.806	0.487	0.275	0.479	0.290	11111	1.12	38161.7675	44444
4707	4.802	0.498	0.266	0.497	0.304	11111	1.15	38186.7085	44443
4707	4.822	0.487	0.267	0.461	0.327	11111	1.12	38449.9776	44444
4707	4.778	0.508	0.268	0.456	0.331	11111	1.07	38452.9522	44444
4716	4.807	0.883	0.647	0.777	0.444	11111	1.07	38064.9823	12222
4716	4.803	0.833	0.601	0.656	0.472	11111	1.09	38153.7622	44444
4716	4.821	0.901	0.604	0.673	0.445	11111	1.15	38165.7590	44444
4716	4.800	0.876	0.621	0.684	0.411	11111	1.12	38186.6893	44443

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4716	4.797	0.863	0.615	0.689	0.446	11111	1.08	38438.9691	44444
4716	4.782	0.889	0.600	0.692	0.429	11111	1.15	38441.0083	44444
4737	4.367	1.119	1.129			11100	1.06	38095.9309	44444
4737	4.363	1.130	1.120	0.842	0.559	11111	1.00	38112.8292	44444
4737	4.410	1.156	1.206	0.848	0.541	11111	1.04	38165.7252	44444
4737	4.374	1.105	1.169	0.813	0.503	11111	1.11	38186.7017	44443
4737	4.346	1.151	1.120	0.808	0.490	11111	1.18	38206.6684	44444
4751	6.631	0.176	-0.018	0.000	0.000	11100	1.01	38165.6563	22200
4751	6.687	0.234	0.001	0.000	0.000	11100	1.05	38165.6944	22200
4752	5.249	-0.112	-0.181	0.000	0.000	11100	1.01	38165.6528	22200
4752	5.313	-0.108	-0.212	0.000	0.000	11100	1.01	38165.6646	22200
4752	5.453	-0.126	-0.108	0.000	0.000	11100	1.06	38165.6972	22200
4757	2.948	-0.028	-0.117	-0.078	-0.062	11111	1.53	38067.9649	44444
4757	2.931	-0.046	-0.085	0.002	-0.044	11111	1.51	38136.7522	44444
4757	0.	-0.066	-0.067	-0.078	-0.022	01111	1.53	38187.6368	44443
4775	4.292	0.385	0.032	0.362	0.168	11111	1.58	38078.9636	12222
4775	4.317	0.373	-0.014	0.389	0.194	11111	1.63	38153.7696	44444
4775	4.290	0.357	0.020	0.445	0.158	11111	1.81	38161.7769	44444
4775	4.319	0.357	0.049	0.313	0.206	11111	1.52	38187.6429	44443
4775	4.347	0.380	0.018	0.000	0.000	11100	1.51	38440.9155	44400
4775	4.313	0.367	0.031	0.000	0.000	11100	1.57	38443.8770	44400
4785	4.291	0.613	0.044	0.572	0.323	11111	1.05	38108.8878	44444
4785	4.269	0.611	0.034	0.540	0.319	11111	1.01	38136.7658	44444
4785	4.323	0.622			0.333	11001	1.06	38165.7437	44444
4785	4.277	0.593	0.048	0.499	0.282	11111	1.08	38186.6954	44443
4786					0.448	00001	1.83	38080.9501	44444
4786	2.631	0.872	0.650	0.617	0.437	11111	1.78	38108.8564	44444
4786	2.649	0.891	0.654	0.595	0.439	11111	1.91	38187.6754	44443
4787	3.893	-0.182	-0.535	0.091	-0.067	11111	1.27	38064.9915	12222
4787	3.883	-0.123	-0.604	0.072	-0.081	11111	1.27	38136.7976	44444
4787	3.883	-0.115	-0.568	-0.020	-0.095	11111	1.29	38186.6835	44443
4789	4.821	0.023	-0.057	0.080	-0.024	11111	1.07	38108.8945	44444
4789	4.779	0.002	-0.055	0.038	-0.048	11111	1.01	38136.7587	44444
4789	4.822	0.017	-0.012	-0.005	-0.015	11111	1.13	38165.7649	44444
4789	4.782	0.007	-0.014	0.077	-0.012	11111	1.09	38189.6823	44443
4789	4.809	0.006	0.007	0.000	0.000	11100	1.02	38440.9201	44400
4789	4.841	-0.035	0.016	0.000	0.000	11100	1.02	38441.9012	44400
4789	4.812	-0.020	0.045	0.000	0.000	11100	1.04	38443.8804	44400
4813	4.655	1.244	1.353	0.932	0.634	11111	1.36	38088.9360	22222
4813	4.678	1.220	1.347	0.918	0.614	11111	1.33	38139.7835	44444
4813	4.672	1.222	1.350	0.883	0.375	11110	1.32	38190.6332	44443
4813	4.654	1.213	1.384	0.860	0.580	11111	1.38	38517.7707	44444
4825	2.724	0.405	-0.031	0.326	0.206	11111	1.21	38067.9736	44444
4825	2.725	0.369	-0.002	0.304	0.188	11111	1.24	38080.9574	44444
4825	2.723	0.345	0.010	0.295	0.172	11111	1.20	38148.7338	44444
4825	2.738	0.348	-0.102	0.367	0.184	11111	1.29	38153.7782	44444
4825	2.737	0.341	-0.014	0.274	0.199	11111	1.32	38189.6886	44443
4825	2.723	0.372	-0.017	0.246	0.193	11111	1.22	38190.6437	44443
4825	2.757	0.351	-0.019	0.240	0.176	11111	1.34	38202.6594	44444
4828	4.881	0.100	0.036	0.067	0.040	11111	1.12	38088.9444	22222
4828	4.861	0.079	-0.039	0.072	0.009	11111	1.16	38153.7850	44444
4828	4.903	0.096	0.087	0.092	-0.012	11111	1.12	38165.7313	44444
4828	4.876	0.070	0.052	0.092	0.040	11111	1.19	38189.6948	44443
4845	5.940	0.545	-0.037	0.605	0.274	11111	1.01	38500.7789	22221
4845	5.964	0.552	-0.029	0.470	0.297	11111	1.01	38523.7289	44444
4845	5.974	0.558	-0.042	0.530	0.300	11111	1.09	38528.7740	44444
4846	4.877	2.537	6.624	1.760	1.372	11111	1.14	38392.9737	44444
4846	4.864	2.545	6.618	1.747	1.377	11111	1.03	38397.0649	44444
4846	4.963	2.453	5.914	1.831	1.348	11101	1.04	38404.0104	44444
4846	5.434	2.747	5.585	2.028	1.400	11111	1.04	38460.8506	22222
4883	4.940	0.670	0.192	0.560	0.351	11111	1.02	38424.9544	44444
4883	4.967	0.677	0.210	0.531	0.346	11111	1.10	38449.9920	44444
4902	4.832	1.628	1.551	1.569	1.227	11111	1.37	38116.7982	22222
4902	4.804	1.578	1.548	1.540	1.272	11111	1.35	38139.7895	44444
4902	4.782	1.555	1.604	1.564	1.241	11111	1.54	38186.7163	44443
4902	4.768	1.590	1.682	1.546	1.221	11111	1.51	38202.6675	44444
4902	4.821	1.590	1.472	0.000	0.000	11100	1.35	38440.9240	44400
4902	4.772	1.611	1.546	0.000	0.000	11100	1.42	38443.8843	44400
4905	1.790	-0.010	-0.013	0.045	-0.052	11111	1.12	38108.9006	44444
4905	1.766	-0.024	-0.006	-0.010	-0.026	11111	1.10	38136.8044	44444
4905	1.780	-0.039	0.040	-0.053	-0.005	11111	1.13	38187.6905	44443
4905	1.763	-0.039	0.013	-0.079	-0.042	11111	1.18	38202.6797	44444
4910	3.355	1.646	1.758	1.455	1.371	11111	1.23	38082.8605	44444
4910	3.398	1.578	1.798	1.567	1.279	11111	1.15	38116.8481	22222
4910	3.358	1.593	1.782	1.478	1.365	11111	1.16	38139.7972	44444
4910	3.384	1.578	1.793	1.496	1.296	11111	1.15	38190.6497	44443
4910	3.402	1.565	1.788	0.000	0.000	11100	1.15	38464.8920	44400
4910	3.375	1.559	1.811	0.000	0.000	11100	1.14	38466.8799	22200
4914	2.070	0.127	-0.215	-0.011	-0.085	11111	1.01	38078.9358	12222
4914	2.842	-0.090	-0.380	-0.058	-0.081	11111	1.01	38139.7545	44444
4914	2.802	-0.079	-0.297	-0.050	-0.067	11111	1.03	38187.6830	44443
4920	4.797	1.583	1.957	1.407	0.906	11111	1.03	38064.9734	12222
4920	4.821	1.471				11000	1.04	38135.7911	43411
4920	4.776	1.572	1.995	1.304	0.953	11111	1.06	38190.6711	44443
4920	4.817	1.579	1.824	0.000	0.000	11100	1.04	38464.8958	44400
4920	4.765	1.592	1.920	1.319	0.982	11111	1.22	38784.9066	44444
4931		0.380	0.022			01100	1.10	38063.9870	11212
4931	4.960	0.390	0.004	0.419	0.202	11111	1.12	38108.9062	44444
4931	4.945	0.350	0.010	0.337	0.246	11111	1.11	38154.7618	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4931	4.955	0.344	0.002	0.351	0.197	11111	1.15	38189.7035	44443
4931	4.933	0.380	0.020	0.000	0.000	11100	1.10	38464.8997	44400
4932	2.838	0.926	0.782	0.676	0.469	11111	1.07	38063.9787	11212
4932	2.833	0.964				11000	1.08	38135.7708	43411
4932	2.838	0.964	0.653	0.716	0.426	11111	1.19	38157.7976	12211
4932	2.836	0.945	0.765	0.612	0.438	11111	1.12	38190.6834	44443
4932	2.859	0.922	0.728	0.571	0.451	11111	1.21	38203.6788	44444
4949	5.697	1.597	1.583	0.000	0.000	11100	1.08	38936.6574	44444
4954	4.808	1.483	1.864	1.245	0.799	11111	1.01	38116.8581	22222
4954	4.820	1.452	1.831	1.226	0.818	11111	1.02	38139.8076	44444
4954	4.821	1.417	1.910	1.149	0.804	11111	1.00	38187.6498	44443
4954	4.845	1.454	1.870	1.108	0.797	11111	1.10	38204.6748	44444
4963	4.394	-0.020	0.016	0.086	-0.012	11111	1.27	38065.0014	12222
4963	4.366	0.025	-0.035	0.056	0.016	11111	1.27	38148.7442	44444
4963	4.383	-0.019	0.010	0.015	-0.003	11111	1.26	38192.6345	44443
4963	4.353	-0.004	0.015	0.000	0.000	11100	1.27	38464.9062	44400
4963	4.388	-0.019	0.013	0.000	0.000	11100	1.26	38466.8847	22200
4983	4.248	0.635	0.067	0.453	0.327	11111	1.03	38082.9793	44444
4983	4.236	0.600	0.063	0.518	0.322	11111	1.00	38112.8571	44444
4983	4.260	0.586	0.057	0.502	0.268	11111	1.01	38147.7715	44444
4983	4.256	0.616	0.071	0.525	0.306	11111	1.03	38152.7885	44444
4983	4.276	0.542	0.131	0.505	0.291	11111	2.41	38152.9588	44444
4983	4.248	0.579	0.103	0.488	0.254	11111	1.01	38161.7402	44444
4983	4.235	0.593	0.099	0.661	0.233	11111	2.16	38161.9236	44444
4983	4.297	0.590	0.134	0.491	0.286	11111	1.00	38165.6997	44444
4983	4.243	0.559	0.041	0.553	0.302	11111	2.10	38165.9097	44444
4983	4.275	0.585	0.088	0.504	0.279	11111	1.17	38179.7696	44444
4983	4.287	0.543	0.115	0.493	0.308	11111	1.05	38187.7056	44443
4983	4.271	0.582	0.080	0.392	0.275	11111	1.04	38204.6487	44444
4983	4.227	0.627	0.051	0.477	0.304	11111	2.29	38204.8120	44444
4983	4.227	0.555	0.032	0.423	0.322	11111	1.11	38209.6715	44433
5017	4.729	0.306	0.158	0.280	0.120	11111	1.04	38108.9123	44444
5017	4.715	0.302	0.193	0.255	0.166	11111	1.01	38152.7609	44444
5017	4.736	0.297	0.211	0.359	0.163	11101	1.04	38187.6978	44443
5017	4.735	0.306	0.210	0.218	0.132	11111	1.09	38202.6865	44444
5019	4.700	0.739	0.231	0.612	0.331	11111	1.64	38078.9907	12222
5019	4.740	0.699	0.246	0.654	0.379	11111	1.59	38112.8782	44444
5019	4.751	0.717	0.242	0.619	0.341	11111	1.61	38139.8140	44444
5019	4.732	0.737	0.259	0.578	0.360	11111	1.58	38147.7451	44444
5019	4.750	0.719	0.251	0.545	0.355	11111	1.60	38176.7082	44444
5019	4.755	0.697	0.	0.559	0.340	11011	1.61	38176.7145	44444
5019	4.740	0.709	0.281	0.569	0.384	11111	1.61	38180.7019	44444
5019	4.718	0.704	0.301	0.547	0.362	11111	1.57	38194.6360	44443
5019	4.780	-1.378	1.884	0.553	0.367	10011	1.67	38209.6417	44433
5019	4.716	0.709	0.264	0.591	0.369	11111	1.60	38443.9802	44444
5019	4.755	0.687	0.244	0.592	0.360	11111	1.65	38448.9816	22121
5020	2.975	0.942				11000	1.93	38080.0064	12221
5020	2.978	0.914	0.687	0.604	0.482	11111	1.76	38108.8749	44444
5020	2.985	0.907	0.721	0.541	0.469	11111	1.76	38192.6420	44443
5020	2.988	0.902	0.658	0.669	0.436	11111	1.80	38517.7796	44444
5028	2.781	0.003	-0.046	0.024	-0.039	11111	2.77	38095.9139	44444
5028	2.694	0.056	0.011	0.059	0.002	11111	2.76	38131.8058	44444
5028	2.713	0.031				11000	2.82	38135.8198	43411
5054	2.109	0.036				11000	1.11	38079.9966	12221
5054	2.075	-0.018			-0.029	11001	1.09	38147.7810	44444
5054	2.052	0.016	0.026	-0.053	-0.025	11111	1.15	38202.6937	44444
5054	2.019	0.017	0.021	-0.024	-0.008	11111	1.13	38211.6511	44443
5056	0.935	-0.223	-0.957	-0.146	-0.218	11111	1.38	38082.9592	44444
5056	0.933	-0.254	-0.914	-0.147	-0.220	11111	1.38	38089.9298	22222
5056	0.927	-0.207	-0.971	-0.102	-0.212	11111	1.38	38112.8692	44444
5056	0.981	-0.251	-0.946	-0.065	-0.226	11111	1.39	38116.8754	22222
5056	1.026	-0.280	-0.934	-0.060	-0.272	11111	1.41	38138.8236	33331
5056	0.986	-0.246	-0.925	-0.077	-0.271	11111	2.74	38138.9463	33331
5056	0.944	-0.226	-0.970	-0.094	-0.257	11111	1.45	38139.8372	44444
5056	0.997	-0.273	-0.912	-0.011	-0.200	11111	1.40	38152.7820	44444
5056	0.998	-0.232	-0.926	-0.013	-0.204	11111	2.72	38152.9075	44444
5056	0.938	-0.234	-0.905	-0.052	-0.295	11111	1.38	38161.7462	44444
5056	0.940	-0.264	-0.832	0.225	-0.324	11101	3.40	38161.8994	44444
5056	0.944	-0.251	-0.893	-0.176	-0.203	11111	1.48	38187.7140	44443
5062				0.168	0.069	00011	1.11	38108.9188	44444
5062	4.044	0.142				11000	1.10	38135.8354	43411
5062	4.060	0.139	0.085	0.190	0.073	11111	1.09	38147.7905	44444
5062	4.009	0.177	0.102	0.130	0.062	11111	1.15	38190.7261	44443
5062	4.034	0.155	0.057	0.197	0.051	11111	1.09	38466.9048	44444
5062	4.014	0.153	0.097	0.170	0.068	11111	1.13	38474.9331	44444
5068	4.759	1.109	1.037	0.792	0.562	11111	1.50	38148.7526	44444
5068	4.735	1.111	1.058	0.807	0.517	11111	1.61	38161.7830	44444
5068	4.743	1.078	1.079	0.762	0.521	11111	1.50	38194.6429	44443
5072	4.985	0.680	0.281	0.668	0.336	11111	1.06	38144.7636	22222
5072	4.960	0.735	0.282	0.569	0.383	11111	1.19	38784.9427	44444
5072	4.962	0.728	0.264	0.584	0.447	11111	1.10	38786.9691	44444
5080	5.413	1.696	0.588	3.190	2.448	11111	1.77	38080.9642	44444
5080	5.073	1.649	0.757	2.880	2.397	11111	1.76	38108.8811	44444
5080	5.400	1.000	0.763	3.537	2.506	11111	1.83	38190.6902	44443
5080	6.761	1.509	0.445	3.742	2.888	11111	1.77	38433.0009	44444
5080	4.962	1.475	0.328	1.938	2.828	11111	1.81	38443.9902	44444
5080	5.055	1.498	0.722	2.731	2.339	11111	1.76	38523.7377	44444
5080	4.987	1.517	0.757	3.023	2.296	11111	1.76	38525.7431	44444
5080	4.733	1.568	0.798	2.594	2.331	11111	1.76	38537.6993	44443
5080	4.939	1.558	0.684	2.787	2.373	11111	1.76	38553.6654	44444
5080	4.971	1.613	0.677	2.701	2.420	11111	1.81	38555.6843	44444
5080	5.194	1.584	0.586	2.911	2.456	11111	1.78	38564.6480	22222
5089	3.909	1.208	0.948	0.857	0.536	11111	3.15	38095.9213	44444
5089	3.841	1.123	1.111	0.884	0.578	11111	3.14	38131.8125	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5095	4.697	1.548	2.053	1.437	1.142	11111	1.28	38131.8284	44444
5095	4.725	1.578			1.179	11001	1.31	38153.7919	44444
5095	4.668	1.624	1.995	1.468	1.143	11111	1.29	38194.6645	44443
5095	4.690	1.608	1.875	0.000	0.000	11100	1.28	38464.9185	44400
5095	4.684	1.620	1.917	0.000	0.000	11100	1.28	38466.8884	22200
5105	5.006	-0.016	-0.008	0.144	-0.040	11110	1.16	38116.8869	22222
5105	4.934	0.008	-0.010	0.032	0.023	11111	1.14	38148.7685	44444
5105	4.900	0.022	0.013	0.071	-0.058	11111	1.16	38194.6723	44443
5105	4.935	0.027	-0.004	0.000	0.000	11100	1.15	38464.9224	44400
5105	4.925	0.030	0.013	0.000	0.000	11100	1.14	38466.8923	22200
5107	3.368	0.135	0.079	0.101	0.056	11111	1.19	38082.9689	44444
5107	3.381	0.096	0.068	0.108	0.057	11111	1.18	38148.7607	44444
5107	3.371	0.116	0.097	0.065	0.059	11111	1.19	38199.6554	44443
5107	3.386	0.117	0.110	0.018	0.031	11111	1.28	38204.6809	44444
5110	5.027	0.385	0.044	0.413	0.320	11111	1.00	38131.8219	44444
5110	5.003	0.407	0.050	0.408	0.332	11111	1.01	38152.7752	44444
5110	5.000	0.385	0.067	0.418	0.246	11111	1.01	38192.6769	44443
5112	4.697	0.115				11000	1.06	38135.8422	43411
5112	4.689	0.130	0.106	0.151	-0.001	11111	1.08	38161.7892	44444
5112	4.702	0.120	0.131	0.083	0.038	11111	1.06	38192.6833	44443
5112	4.703	0.133	0.079	0.086	0.041	11111	1.14	38202.7086	44444
5127	4.828	0.227				11000	1.03	38135.8527	43411
5127	4.830	0.249	0.066	0.260	0.131	11111	1.04	38186.7233	44443
5127	4.823	0.232	0.103	0.267	0.121	11111	1.01	38415.0152	22222
5127	4.848	0.229	0.092	0.281	0.135	11111	1.05	38415.9815	44444
5154	4.675	1.620				11000	1.09	38080.9922	44444
5154	4.642	1.667	1.889	1.355	1.142	11111	1.08	38152.7686	44444
5154	4.642	1.633	1.993	1.398	1.118	11111	1.17	38393.0221	44444
5154	4.630	1.628	1.953	1.412	1.105	11111	1.09	38415.0253	22222
5154	4.687	1.622	1.998	1.422	1.105	11111	1.08	38466.9127	44444
5185	4.502	0.482	0.071	0.457	0.212	11111	1.07	38108.9330	44444
5185	4.489	0.465	0.013	0.366	0.262	11111	1.04	38154.7770	44444
5185	4.482	0.496	0.034	0.379	0.247	11111	1.12	38190.7337	44443
5185	4.501	0.493	0.052	0.000	0.000	11100	1.04	38464.9263	44400
5185	4.485	0.498	0.058	0.000	0.000	11100	1.04	38466.8957	22200
5191	1.848	-0.175	-0.669	-0.127	-0.212	11111	1.05	38136.8115	44444
5191	1.858	-0.175	-0.643	-0.153	-0.195	11111	1.08	38186.7301	44443
5191	1.857	-0.185	-0.679	-0.099	-0.168	11111	1.05	38433.0138	44444
5191	1.884	-0.195	-0.671	-0.083	-0.168	11111	1.05	38439.0094	44444
5200	4.057	1.521	1.881	1.235	0.889	11111	1.05	38088.9627	22222
5200	4.059	1.523	1.855	1.288	0.855	11111	1.07	38139.8438	44444
5200	4.053	1.514	1.869	1.118	0.871	11111	1.05	38194.6787	44443
5200	4.100	1.507	1.906	1.154	0.855	11111	1.11	38204.6865	44444
5219	4.705	1.651	2.023	1.529	1.284	11111	1.02	38079.0065	12222
5219	4.741	1.630	1.918	1.545	1.253	11111	1.04	38189.7199	44443
5219	4.868	1.587	1.906	1.484	1.279	11111	1.06	38204.6924	44444
5219	4.732	1.662	1.947	0.000	0.000	11100	1.02	38459.9712	44400
5219	4.795	1.688	1.760	1.480	1.364	11111	1.12	38784.9521	44444
5219	4.808	1.659	1.948	1.498	1.321	11111	1.05	38786.9794	44444
5226	4.652	1.520	1.901	1.647	1.379	11111	1.21	38108.9392	44444
5226	4.682	1.584	1.921	1.538	1.388	11111	1.19	38147.7993	44444
5226	4.691	1.604	1.825	1.690	1.360	11111	1.19	38194.6873	44443
5226	4.619	1.568	1.899	1.493	1.332	11111	1.23	38204.6989	44444
5226	4.613	1.579	1.762	0.000	0.000	11100	1.20	38459.9751	44400
5235	2.672	0.571	0.183	0.524	0.249	11111	1.06	37808.7400	22222
5235	2.692	0.591	0.266	0.534	0.275	11111	1.03	38065.0178	12222
5235	2.662	0.607	0.210	0.442	0.289	11111	1.03	38095.9415	44444
5235	2.671	0.605	0.224	0.434	0.306	11111	1.20	38108.9887	44444
5235	2.663	0.563	0.260	0.443	0.291	11111	1.04	38138.8380	33331
5235	2.685	0.590	0.241	0.403	0.284	11111	1.15	38179.7802	44444
5235	2.683	0.581	0.235	0.429	0.299	11111	1.04	38199.6633	44443
5235	2.694	0.525	0.229	0.421	0.307	11111	1.05	38209.6499	44433
5264	4.283	0.090	0.141	0.192	0.042	11111	1.16	38065.0097	12222
5264	4.291	0.065	0.144	0.161	0.061	11111	1.17	38131.8475	44444
5264	4.245	0.105	0.133	0.097	0.049	11111	1.18	38197.6998	44443
5264	0.000	0.100	0.166	0.000	0.000	01100	1.20	38459.9795	44400
5264	4.256	0.101	0.134	0.000	0.000	11100	1.17	38466.8997	22200
5287	3.265	1.167	1.031	0.874	0.574	11111	1.93	38080.9714	44444
5287	3.284	1.085	1.004	0.999	0.460	11111	1.97	38138.8451	33331
5287	3.302	1.110	1.088	0.938	0.533	11111	1.97	38165.7729	44444
5287	3.261	1.102	1.463	4.595	0.574	11001	2.00	38192.7067	44443
5288	2.065	0.988	0.937	0.782	0.562	11111	2.72	38131.8405	44444
5291	3.667	-0.035	-0.107	0.013	-0.045	11111	1.18	38136.8179	44444
5291	3.667	-0.061	-0.077	0.049	-0.078	11111	1.20	38161.7952	44444
5291	3.667	-0.063	-0.039	-0.104	-0.071	11111	1.18	38192.6899	44443
5291	3.646	-0.031	-0.081	-0.067	-0.079	11111	1.22	38204.7045	44444
5299	5.244	1.606	1.669	1.879	1.648	11111	1.06	37835.6839	22222
5299	5.297	1.551	1.682	1.821	1.663	11111	1.04	37836.6552	22222
5304	4.818	0.589	0.029	0.410	0.298	11111	1.01	38082.9906	44444
5304	4.862	0.538	0.037	0.424	0.284	11111	1.01	38142.8304	44444
5304	4.849	0.547	0.076	0.457	0.282	11111	1.03	38165.7854	44444
5304	4.825	0.509	0.089	0.452	0.270	11111	1.02	38194.6960	44443
5304		0.551	0.070		0.268	01101	1.03	38207.6749	02222
5304	4.777	0.529	0.085	0.480	0.294	11111	1.10	38209.7032	44433
5313	4.964	-0.112	-0.459	-0.051	-0.090	11111	1.16	38088.9717	22222
5313	5.013	-0.141	-0.459	-0.102	-0.126	11111	1.15	38154.7909	44444
5313	5.053	-0.094	-0.426	-0.095	-0.136	11111	1.17	38165.7790	44444
5313	5.055	-0.117	-0.438	-0.042	-0.188	11111	1.26	38202.7158	44444
5313	4.988	-0.120	-0.413	-0.096	-0.107	11111	1.40	38223.6893	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5315	4.213	1.332	1.487	1.073	0.737	11111	1.36	38131.8544	44444
5315	4.198	1.303	1.455	1.075	0.746	11111	1.38	38139.8503	44444
5328	4.407	0.210	0.084	0.190	0.127	11111	1.06	38136.8244	44444
5328	4.405	0.198	0.101	0.145	0.116	11111	1.06	38199.6717	44443
5338	4.107	0.506	-0.029	0.534	0.284	11111	1.29	38138.8541	33331
5338	4.060	0.529	0.057	0.447	0.294	11111	1.55	38398.0233	44444
5338	4.096	0.508	0.049	0.496	0.261	11111	1.29	38415.0460	22222
5340	-0.040	1.231	1.351	0.997	0.694	11111	1.03	38131.8623	44444
5340	-0.086	1.269	1.302			11100	1.07	38152.8374	44444
5340	-0.071	1.199	1.323	0.000	0.000	11100	1.05	38459.9842	44400
5340	-0.095	1.255	1.287	1.018	0.638	11111	1.03	38509.7915	44444
5340	-0.051	1.235	1.265	0.925	0.649	11111	1.03	38565.6465	22222
5340	-0.049	1.227	1.260	0.988	0.637	11111	1.04	38566.6307	22222
5340	0.045	1.129	1.260	1.102	0.514	11111	1.04	38567.6287	22222
5350	4.751	0.193	0.033	0.172	0.102	11111	1.06	38136.8301	44444
5350	4.750	0.203	0.069	0.128	0.093	11111	1.06	38199.6828	44443
5350	4.735	0.217	0.066	0.146	0.084	11111	1.19	38223.6956	44444
5351	4.179	0.098	0.037	0.070	0.033	11111	1.03	38136.8358	44444
5351	4.191	0.065	0.055	0.038	0.029	11111	1.04	38199.6918	44443
5351	4.162	0.079	0.050	-0.053	0.036	11111	1.18	38223.7015	44444
5359	4.560	0.126	0.016	0.183	0.027	11111	1.46	38138.8602	33331
5359	4.537	0.145	0.078	0.081	0.040	11111	1.53	38165.8080	44444
5359	4.518	0.119	0.082	0.067	0.046	11111	1.47	38192.7156	44443
5359	4.523	0.123	0.127	0.118	0.025	11111	1.45	38523.7979	44444
5359	4.492	0.126	0.122	0.070	0.021	11111	1.43	38528.7467	44444
5361	4.800	1.047	0.933	0.776	0.548	11111	1.01	38079.0140	12222
5361	4.802	1.091	0.906	0.726	0.564	11111	1.01	38152.8151	44444
5361	4.821	1.054	0.928	0.765	0.508	11111	1.03	38192.7248	44443
5361	4.833	1.038	0.922	0.769	0.496	11111	1.09	38202.7325	44444
5370	4.901	1.128	1.431	0.912	0.594	11111	1.05	38131.8712	44444
5370	4.804	1.325	1.334	0.872	0.610	11111	1.09	38152.8453	44444
5370	4.897	1.198	1.354	0.875	0.582	11111	1.18	38202.7393	44444
5370	4.812	1.262	1.385	0.913	0.580	11111	1.04	38509.7999	44444
5370	4.869	1.216	1.517	0.887	0.599	11111	1.07	38522.8213	22222
5381	4.616	1.338	1.545	0.910	0.674	11111	2.00	38080.9813	44444
5381	4.812	1.298	1.547	0.983	0.712	11111	2.00	38147.8206	44444
5381	4.783	1.334	1.521	0.972	0.676	11111	2.03	38194.7032	44443
5381	4.806	1.273	1.525	0.960	0.672	11111	2.04	38523.8050	44444
5381	4.753	1.298	1.526	0.977	0.630	11111	1.99	38528.7673	44444
5384	6.244	0.642	0.080	0.559	0.322	11111	1.17	38526.7741	22222
5384	6.258	0.628	0.079	0.573	0.319	11111	1.19	38528.7956	44444
5384	6.288	0.633	0.071	0.549	0.328	11111	1.19	38543.7527	22222
5404	4.044	0.510	-0.012	0.431	-0.040	11110	1.06	38136.8414	44444
5404	4.065	0.512	0.003	0.418	0.234	11111	1.08	38186.7372	44443
5404	4.074	0.512	0.032	0.334	0.246	11111	1.10	38204.7103	44444
5404	4.106	0.481	-0.005	0.482	0.264	11111	1.06	38466.9377	44444
5409	4.814	0.751	0.207	0.592	0.387	11111	1.23	38152.8224	44444
5409	4.832	0.716	0.221	0.560	0.365	11111	1.40	38190.7756	44443
5429	3.606	1.298	1.452	0.921	0.651	11111	1.00	38142.8386	44444
5429	3.600	1.292	1.439	0.868	0.649	11111	1.03	38192.7312	44443
5429	3.577	1.306	1.431	0.978	0.630	11111	1.00	38201.6745	44421
5430	4.235	1.448			0.796	11001	1.38	38136.8478	44444
5430	4.281	1.427	1.699	1.015	0.713	11111	1.44	38190.7841	44443
5430	4.246	1.442	1.700	1.088	0.743	11111	1.43	38398.0467	44444
5435				0.154	0.069	00011	1.01	38081.0022	44444
5435					0.100	00001	1.06	38155.8563	44444
5435	3.050	0.185	0.091	0.155	0.075	11111	1.01	38157.7839	12211
5435	3.035	0.173	0.168	0.105	0.081	11111	1.01	38194.7112	44443
5435	0.	0.177	0.077	0.130	0.039	01111	1.02	38207.6830	02222
5435	2.958	0.252	0.108	0.149	0.151	11111	1.07	38209.7098	44433
5447	4.475	0.408	-0.083	0.343	0.194	11111	1.00	38083.0010	44444
5447	4.509	0.374	-0.095	0.422	0.164	11111	1.10	38155.8723	44444
5447				0.316	0.180	00011	1.00	38157.7782	12211
5447	4.477	0.356	-0.066	0.291	0.223	11111	1.01	38199.7001	44443
5447	4.485	0.387	-0.069	0.312	0.187	11111	1.05	38204.7163	44444
5475	4.557	-0.034	-0.314	0.086	-0.012	11111	1.04	38131.8789	44444
5475	4.522	-0.052	-0.312	0.060	-0.035	11111	1.04	38148.8225	44444
5477	3.792	0.048	0.074	0.136	-0.007	11111	1.06	38065.0335	12222
5477	3.761	0.073	0.056	0.062	-0.030	11111	1.06	38079.0215	12222
5477	3.787	0.041	0.046	-0.014	0.009	11101	1.05	38112.9183	44444
5477	3.785	0.051	0.044	0.055	-0.020	11111	1.06	38142.8467	44444
5477	3.778	0.027	0.085	0.014	0.000	11111	1.07	38194.7211	44443
5477	3.782	0.087	0.044	-0.039	-0.019	11111	1.13	38204.7247	44444
5487	3.904	0.386	-0.035	0.440	0.217	11111	1.27	38139.8564	44444
5487	3.885	0.390	-0.010	0.392	0.229	11111	1.64	38398.0298	44444
5487	3.870	0.390	0.002	0.372	0.199	11111	1.30	38415.0558	22222
5490	4.884	1.485	1.972	1.685	1.173	11111	1.24	38081.0479	44444
5490	4.786	1.639	1.979	1.498	1.185	11111	1.01	38148.8319	44444
5490	4.793	1.670	1.908		1.204	11101	1.03	38192.7383	44443
5490	4.854	1.666	1.918	0.000	0.000	11100	1.01	38463.9710	22200
5490	4.783	1.673	1.979	1.419	1.254	11111	1.56	38638.6388	44444
5502	4.610	0.989	0.774		0.475	11101	1.04	38081.0096	44444
5502	4.586	1.032	0.730	0.729	0.493	11111	1.04	38152.8294	44444
5502	4.591	0.962	0.765	0.737	0.478	11111	1.24	38398.0367	44444
5502	4.598	0.961	0.751	0.738	0.480	11111	1.04	38433.0477	44444
5502	4.614	0.969	0.735	0.718	0.471	11111	1.04	38439.0204	44444
5505		0.993	0.756	0.786	0.510	01111	1.01	38079.0356	12222
5505	2.358	0.963	0.742	0.714	0.535	11111	1.01	38112.9097	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5505	2.377	0.958	0.774	0.769	0.491	11111	1.04	38192.7451	44443
5505	2.380	0.961	0.687	0.797	0.523	11111	1.11	38398.0552	44444
5505	2.335	0.968	0.905	0.424	0.718	11000	1.65	38638.6485	44444
5505	2.367	0.980	0.690	0.679	0.552	11111	1.20	38784.9703	44444
5511	3.748	-0.003	-0.026	0.079	-0.002	11111	1.17	38065.0253	12222
5511	3.757	-0.004	-0.018	0.040	-0.027	11111	1.16	38425.0604	44444
5511	3.742	-0.013	-0.043	0.094	-0.026	11111	1.16	38433.0352	44444
5526				1.085	0.706	00011	2.01	38108.9253	44444
5526	4.415	1.414	1.453	1.063	0.787	11111	2.03	38139.8689	44444
5526	4.412	1.375	1.479	1.081	0.760	11111	2.01	38439.0400	44444
5526	4.398	1.403	1.495	1.050	0.769	11111	2.01	38441.0287	44444
5531	2.726	0.147	0.118	0.109	0.015	11111	1.53	38079.0424	12222
5531	2.748	0.152	0.108	0.153	0.051	11111	1.51	38441.0382	44444
5531	2.742	0.156	0.115	0.154	0.058	11111	1.50	38444.0098	44444
5544	4.542	0.794	0.302	0.659	0.417	11111	1.03	38147.8370	44444
5544	4.526	0.774	0.296	0.641	0.422	11111	1.03	38161.8014	44444
5544	4.552	0.758	0.284	0.588	0.445	11111	1.04	38199.7173	44443
5563	2.105	1.482	1.776	1.156	0.758	11111	1.34	38142.8558	44444
5563	2.033	1.442	1.774	1.075	0.736	11111	1.34	38201.6879	44421
5563	2.089	1.473	1.784	1.095	0.798	11111	1.40	38424.9872	44444
5568	5.777	1.083	1.033	1.035	0.546	11111	1.72	38545.7682	22222
5568	5.751	1.067	1.021	0.937	0.549	11111	1.69	38547.7194	22222
5570	4.493	0.304	0.060	0.337	0.158	11111	1.25	38079.0286	12222
5570	4.506	0.321	0.041	0.307	0.174	11111	1.24	38147.8289	44444
5570	4.502	0.353	0.052	0.000	0.000	11100	1.25	38463.9754	22200
5570	4.469	0.329	0.058	0.000	0.000	11100	1.32	38466.9036	22200
5570	4.506	0.319	0.058	0.000	0.000	11100	1.24	38473.9410	44400
5570	4.464	0.328	0.037	0.313	0.162	11111	1.25	38474.9408	44444
5586	4.908	0.006	-0.092	0.096	0.019	11111	1.32	38444.0190	44444
5586	4.927	-0.000	-0.095	0.082	0.019	11111	1.32	38447.0227	44444
5586	4.952	-0.020	-0.115	0.047	0.012	11111	1.33	38448.9925	22121
5589	4.527	1.646	1.668	1.846	1.701	11111	1.20	38148.8412	44444
5589	4.548	1.564	1.561	1.828	1.708	11111	1.26	38424.9974	44444
5589	4.696	1.555	1.530	1.895	1.733	11111	1.20	38444.0295	44444
5600	4.852	1.496	1.859	1.168	0.854	11111	1.01	38131.8850	44444
5600	4.831	1.510	1.830	1.238	0.790	11111	1.01	38185.7354	22221
5600	4.780	1.501	1.791	1.153	0.751	11111	1.01	38206.6895	44444
5601	4.385	1.034	0.899	0.834	0.553	11111	1.17	38079.0494	12222
5601	4.399	1.049	0.882	0.821	0.514	11111	1.16	38201.6990	44421
5601	4.432	1.031	0.804	0.000	0.000	11100	1.16	38463.9798	22200
5601	4.401	1.042	0.904	0.000	0.000	11100	1.22	38466.9076	22200
5602	3.492	1.021	0.701	0.724	0.410	11111	1.07	38147.8980	44444
5602	3.519	0.934	0.739	0.610	0.467	11111	1.01	38203.6858	44444
5602	3.475	0.945	0.708	0.609	0.464	11111	1.11	38216.7288	44444
5603	3.236	1.784	1.886	1.476	1.291	11111	1.91	38152.8523	44444
5603	3.201	1.699	1.951	1.613	1.256	11101	1.86	38161.8075	44444
5603	3.277	1.664	1.957	1.499	1.270	11111	1.86	38203.6920	44444
5603	3.333	1.707	1.946	1.473	1.315	11111	1.88	38224.6439	44444
5616		1.201				01000	1.02	38079.0542	12222
5616	4.533	1.239	1.361	0.957	0.646	11111	1.01	38081.0274	44444
5616	4.580	1.219	1.339	0.892	0.645	11111	1.01	38203.6982	44444
5616	4.529	1.254	1.322	0.925	0.664	11111	1.19	38223.7320	44444
5634	4.962	0.437	0.039	0.389	0.224	11111	1.08	38424.9689	44444
5634	4.956	0.426	-0.025	0.423	0.207	11111	1.01	38444.0392	44444
5634	4.933	0.433	-0.036	0.365	0.214	11111	1.01	38447.0318	44444
5634	4.946	0.415	0.030	0.405	0.213	11111	1.01	38452.9911	44444
5652	4.549	-0.090	0.361	-0.015	-0.104	11111	1.62	38108.9460	44444
5652	4.544	-0.080	-0.366	0.004	-0.069	11111	1.85	38190.7927	44443
5652	4.528	-0.083	-0.388	-0.097	-0.097	11111	1.64	38206.6969	44444
5681	3.484	0.959	0.694	0.735	0.514	11111	1.00	38081.0354	44444
5681	3.477	0.948	0.688	0.729	0.510	11111	1.00	38161.8130	44444
5681	3.475	0.959	0.642			11100	1.01	38206.7038	44444
5685	2.566	-0.140	-0.371	0.132	-0.101	11101	1.30	37796.7937	22222
5685	2.612	-0.132	-0.339	0.111	-0.128	11101	1.30	37808.7595	22222
5685	2.621	-0.108	-0.359	0.112	-0.101	11101	1.36	37835.6371	22222
5685	2.610	-0.110	-0.332	0.093	-0.124	11101	1.31	37836.6674	22222
5685	2.584	-0.107	-0.370	-0.077	-0.058	11111	1.99	38067.9376	44444
5685	2.607	-0.108	-0.370	-0.050	-0.619	11110	1.34	38080.0372	12221
5685	2.605	-0.102	-0.346	-0.033	-0.107	11111	1.35	38081.0510	44444
5685	2.595	-0.115	-0.403	-0.060	-0.101	11111	1.97	38082.8979	44444
5685	2.599	-0.087	-0.368	-0.074	-0.101	11111	1.34	38083.0127	44444
5685	2.585	-0.138	0.	-0.061	-0.094	11011	1.42	38088.9533	22222
5685	2.600	-0.102	-0.357	-0.073	-0.099	11111	1.40	38089.9567	22222
5685	2.594	-0.091	-0.387	-0.009	-0.093	11111	1.40	38108.9962	44444
5685	2.615	-0.113	-0.402	-0.028	-0.099	11111	2.16	38112.8040	44444
5685	2.595	-0.128	-0.375	-0.054	-0.078	11111	1.34	38112.9425	44444
5685	2.613	-0.117	-0.363	-0.037	-0.093	11111	2.36	38113.7919	44444
5685	2.591	-0.094	-0.379	-0.064	-0.118	11111	1.72	38116.8267	22222
5685	2.582	-0.101	-0.379	-0.147	-0.040	11110	2.41	38131.7404	44444
5685	2.617	-0.128	-0.344	-0.047	-0.076	11111	1.34	38131.8903	44444
5685	2.594	-0.131	-0.310	-0.062	-0.064	11111	3.08	38136.7061	44444
5685	2.575	-0.113	-0.344	-0.085	-0.099	11111	1.34	38136.8632	44444
5685	2.610	-0.108	-0.370	-0.040	-0.090	11111	1.34	38138.8664	33331
5685	2.610	-0.108	-0.370	-0.040	-0.040	11110	2.20	38139.0065	33331
5685	2.652	-0.157	-0.335	-0.096	-0.109	11111	2.25	38139.7260	44444
5685	2.589	-0.087	-0.397	-0.051	-0.127	11111	1.34	38139.8628	44444
5685	2.623	-0.072	-0.381	0.061	-0.077	11111	2.11	38139.9986	44444
5685	2.613	-0.110	-0.377	-0.137	-0.117	11111	2.19	38142.7209	44444
5685	2.609	-0.124	-0.379	-0.034	-0.094	11111	1.35	38142.8754	44444
5685	2.602	-0.118	-0.345	0.048	-0.142	11111	2.03	38142.9857	44444
5685	2.573	-0.078	-0.376	-0.157	-0.081	11111	2.05	38143.7257	44444
5685	2.582	-0.085	-0.354	-0.063	-0.075	11111	1.34	38143.8517	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5685	2.568	-0.085	-0.350	-0.168	-0.078	11111	2.29	38147.7023	44444
5685	2.614	-0.130	-0.360	-0.028	-0.122	11111	1.34	38147.8454	44444
5685	2.588	-0.028	-0.371	-0.054	-0.028	11111	2.75	38148.6821	44444
5685	2.598	-0.121	-0.368	-0.036	-0.077	11111	1.34	38148.8504	44444
5685	2.605	-0.110	-0.367	-0.102	-0.080	11111	1.87	38152.7147	44444
5685	2.615	-0.099	-0.415	0.028	-0.087	11111	2.42	38152.9784	44444
5685	2.676	-0.078	-0.295	-0.085	-0.078	11111	2.08	38153.6966	44444
5685	2.571	-0.085	-0.420	-0.064	-0.076	11111	1.34	38153.8304	44444
5685	2.602	-0.110	-0.382	-0.032	-0.080	11111	1.42	38154.8754	44444
5685	2.650	-0.096	-0.410	0.063	-0.094	11111	2.46	38154.9743	44444
5685	2.607	-0.164	-0.339	-0.124	-0.042	11111	2.49	38155.6716	44444
5685	2.653	-0.127	-0.364	-0.008	-0.063	11111	1.34	38155.8314	44444
5685	2.610	-0.091	-0.334	-0.061	-0.115	11111	1.34	38165.7912	44444
5685	2.579	-0.150	-0.382	0.049	-0.100	11111	2.51	38165.9462	44444
5685	2.596	-0.093	-0.382	-0.006	-0.103	11111	1.85	38176.6507	44444
5685	2.609	-0.109	-0.378	0.020	-0.078	11111	1.35	38176.7423	44444
5685	2.565	-0.117	-0.360	-0.059	-0.079	11111	1.38	38176.8030	44444
5685	2.596	-0.090	-0.393	-0.220	-0.096	11111	2.02	38176.8921	44444
5685	2.613	-0.120	-0.369	-0.175	-0.099	11111	2.39	38176.9116	44444
5685	2.607	-0.121	-0.398	-0.016	-0.097	11111	1.86	38178.6440	44444
5685	2.590	-0.121	-0.372	-0.031	-0.102	11111	1.59	38179.6713	44444
5685	2.597	-0.105	-0.371	-0.091	-0.069	11111	1.36	38179.7275	44444
5685	0.	0.	-0.358	0.090	-0.095	00101	1.60	38179.8439	44444
5685	2.610	-0.120	-0.372	-0.047	-0.073	11111	2.05	38180.6251	44444
5685	2.585	-0.104	-0.377	-0.053	-0.077	11111	1.39	38180.7129	44444
5685	2.603	-0.112	-0.374	-0.070	-0.075	11111	1.34	38180.7684	44444
5685	2.595	-0.098	-0.364	-0.060	-0.083	11111	1.55	38180.8332	44444
5685	2.589	-0.101	-0.364	-0.084	-0.097	11111	2.21	38180.8924	44444
5685	2.594	-0.106	-0.360	-0.060	-0.082	11111	1.35	38185.7634	22221
5685	2.581	-0.082	-0.353	-0.078	-0.074	11111	1.34	38186.7451	44443
5685	2.600	-0.111	-0.331	-0.020	-0.077	11111	1.35	38188.7512	44443
5685	2.614	-0.121	-0.383	-0.082	-0.074	11111	2.75	38188.8916	44443
5685	2.592	-0.102	-0.379	-0.043	-0.063	11111	1.34	38189.7271	44443
5685	2.601	-0.081	-0.366	-0.065	-0.088	11111	3.42	38189.9047	44443
5685	2.603	-0.115	-0.343	-0.083	-0.087	11111	1.76	38200.8060	44444
5685	2.669	-0.056	-0.339	0.098	-0.070	11111	2.82	38222.8007	44443
5685	2.610	-0.108	-0.370	-0.050	-0.090	11111	3.63	38279.6626	44433
5685	2.631	-0.105	-0.372	0.060	-0.080	11111	1.95	38397.0391	44444
5685	2.631	-0.105	-0.359	0.018	-0.052	11111	2.31	38398.0160	44444
5685	2.625	-0.110	-0.351	-0.012	-0.091	11111	1.43	38420.0455	44444
5685	2.630	-0.096	-0.370	0.020	-0.080	11111	2.29	38431.9239	44444
5685	2.613	-0.088	-0.380	0.015	-0.075	11111	2.28	38432.9216	44444
5685	2.591	-0.121	-0.355	-0.019	-0.080	11111	1.34	38433.0591	44444
5685	2.613	-0.107	-0.367	-0.015	-0.095	11111	1.41	38438.9997	44444
5685	2.657	-0.097	-0.355	0.000	0.000	11100	2.14	38439.9096	44400
5685	2.604	-0.087	-0.365	-0.032	-0.060	11111	2.20	38440.9039	44444
5685	2.626	-0.105	-0.358	-0.004	-0.101	11111	1.35	38441.0177	44444
5685	2.610	-0.107	-0.364	0.000	0.000	11100	2.13	38443.8993	44400
5685	2.602	-0.101	-0.342	-0.019	-0.092	11111	1.37	38443.9997	44444
5685	2.632	-0.101	-0.367	0.023	-0.085	11111	2.28	38446.8833	44444
5685	2.623	-0.118	-0.346	-0.014	-0.101	11111	1.35	38447.0077	44444
5685	2.632	-0.074	-0.407	0.009	-0.102	11111	2.34	38448.8750	44444
5685	2.610	-0.108	-0.358	-0.040	-0.098	11111	1.34	38449.0253	22121
5685	2.607	-0.137	-0.352	-0.013	-0.113	11111	1.34	38450.0292	44444
5685	2.627	-0.083	-0.384	0.012	-0.094	11111	2.35	38452.8638	44444
5685	2.623	-0.115	-0.340	0.002	-0.096	11111	1.34	38453.0090	44444
5685	2.638	-0.077	-0.397	0.011	-0.096	11111	2.41	38453.8586	44444
5685	2.630	-0.121	-0.346	0.000	0.000	11100	1.35	38459.9674	44400
5685	2.592	-0.124	-0.322	0.000	0.000	11100	1.44	38463.9208	22200
5685	2.625	-0.108	-0.343	-0.012	-0.060	11111	1.34	38463.9773	22222
5685	2.549	-0.109	-0.344	0.000	0.000	11100	1.40	38464.9306	44400
5685	2.630	-0.106	-0.350	-0.004	-0.088	11111	1.37	38464.9415	44444
5685	0.000	-0.116	-0.261	5.812	-0.075	01101	1.84	38466.8568	44444
5685	2.619	-0.112	-0.342	0.000	0.000	11100	1.45	38466.9118	22200
5685	2.623	-0.103	-0.343	-0.005	-0.110	11111	1.38	38469.9252	44444
5685	2.627	-0.100	-0.356	0.000	0.000	11100	1.38	38473.9126	44400
5685	2.583	-0.097	-0.361	-0.033	-0.097	11111	2.15	38474.8135	44444
5685	2.593	-0.111	-0.343	-0.018	-0.084	11111	1.34	38474.9482	44444
5685	2.633	-0.115	-0.343	0.000	0.000	11100	1.37	38474.9830	44400
5685	2.636	-0.120	-0.335	-0.071	-0.033	11111	1.34	38475.9411	44444
5685	2.609	-0.079	-0.370	-0.013	-0.079	11111	2.10	38481.7974	33433
5685	2.617	-0.117	-0.337	-0.051	-0.085	11111	1.39	38496.9281	44444
5685	2.616	-0.090	-0.370	-0.047	-0.083	11111	1.95	38498.7603	44444
5685	2.618	-0.112	-0.367	-0.050	-0.087	11111	2.70	38499.7224	44444
5685	2.635	-0.104	-0.344	-0.028	-0.135	11111	1.35	38500.8584	22221
5685	2.628	-0.120	-0.310	-0.022	-0.083	11111	1.36	38506.8874	22222
5685	2.627	-0.106	-0.340	-0.025	-0.100	11111	1.35	38508.8334	22222
5685	2.627	-0.117	-0.335	-0.014	-0.105	11111	1.35	38510.8336	22222
5685	2.657	-0.143	-0.305	-0.010	-0.123	11111	1.40	38512.8010	22222
5685	2.598	-0.112	-0.341	-0.021	-0.106	11111	1.64	38513.7498	22222
5685	2.579	-0.088	-0.369	-0.054	-0.107	11111	1.47	38515.7729	44444
5685	2.588	-0.108	-0.338	-0.043	-0.111	11111	1.34	38515.8238	44444
5685	2.630	-0.123	-0.343	-0.040	-0.082	11111	2.02	38515.9641	44444
5685	2.602	-0.114	-0.333	-0.045	-0.111	11111	1.34	38518.8412	22222
5685	2.609	-0.119	-0.336	-0.064	-0.085	11111	1.35	38522.7997	22222
5685	2.610	-0.115	-0.351	-0.027	-0.100	11111	1.34	38523.8139	44444
5685	2.594	-0.122	-0.356	0.000	0.000	11100	1.34	38524.7967	22200
5685	2.635	-0.112	-0.341	0.000	0.000	11100	1.34	38528.8064	44400
5685	2.610	-0.108	-0.371	-0.039	-0.095	11111	1.35	38531.8149	44444
5685	2.615	-0.112	-0.334	-0.028	-0.101	11111	1.38	38532.7507	22222
5685	2.619	-0.107	-0.340	-0.037	-0.091	11111	1.34	38533.7816	44444
5685	2.622	-0.094	-0.375	-0.007	-0.086	11111	2.12	38533.9207	44444
5685	0.000	0.000	0.000	-0.008	-0.100	00011	1.49	38534.7159	44444
5685	2.594	-0.124	-0.339	-0.039	-0.094	11111	1.34	38534.7934	44444
5685	2.645	-0.121	-0.346	0.004	-0.112	11111	1.50	38535.8521	22222
5685	2.618	-0.121	-0.350	-0.030	-0.112	11111	1.36	38543.7347	22222
5685	2.619	-0.134	-0.315	-0.046	-0.102	11111	1.37	38544.7889	44444
5685	2.586	-0.105	-0.376	-0.058	-0.078	11111	2.20	38544.8950	44444
5685	2.636	-0.099	-0.368	-0.053	-0.082	11111	1.89	38546.6339	22222
5685	2.634	-0.280	-0.202	0.009	-0.240	11111	1.41	38546.8008	22222
5685	2.623	-0.125	-0.331	-0.042	-0.085	11111	1.76	38547.6426	22222
5685	2.607	-0.110	-0.349	-0.048	-0.090	11111	1.35	38553.7090	44444
5685	2.614	-0.124	-0.337	-0.024	-0.101	11111	1.37	38555.7615	44444
5685	2.597	-0.121	-0.336	-0.059	-0.100	11111	1.34	38556.7091	44444
5685	2.601	-0.100	-0.372	-0.059	-0.083	11111	1.52	38557.7958	44444
5685	2.600	-0.101	-0.352	-0.040	-0.078	11111	1.35	38558.7384	44444
5685	2.580	-0.102	-0.365	-0.065	-0.079	11111	1.35	38559.7339	44444
5685	2.614	-0.131	-0.339	-0.040	-0.077	11111	1.34	38560.7156	22222
5685	2.617	-0.127	-0.334	-0.050	-0.101	11111	1.38	38561.7498	22222
5685	2.638	-0.110	-0.330	-0.017	-0.075	11111	1.42	38562.7610	22222

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5685	2.619	-0.117	-0.345	-0.054	-0.078	11111	1.50	38563.6339	22222
5685	2.579	-0.110	-0.348	-0.050	-0.107	11111	1.38	38564.7410	22222
5685	2.608	-0.138	-0.338	-0.040	-0.098	11111	1.49	38565.7694	22222
5685	2.604	-0.125	-0.328	-0.044	-0.089	11111	1.34	38566.6963	22222
5685	2.599	-0.120	-0.336	-0.049	-0.090	11111	1.34	38568.6878	22222
5685	2.621	-0.100	-0.354	-0.029	-0.088	11111	1.72	38786.9921	44444
5685	2.605	-0.097	-0.399	-0.042	-0.067	11111	1.39	38796.0278	44444
5685	2.612	-0.112	-0.368	0.000	0.000	11100	2.70	38811.8678	44400
5685	2.642	-0.126	-0.339	0.011	-0.076	11111	1.41	38818.9566	22222
5685	2.590	-0.133	-0.342	-0.042	-0.100	11111	1.36	38823.0243	44444
5685	2.616	-0.131	-0.344	-0.041	-0.099	11111	1.37	38823.9574	44444
5685	2.610	-0.109	-0.356	-0.023	-0.095	11111	1.48	38824.9238	44444
5685	2.593	-0.117	-0.356	-0.051	-0.095	11111	1.34	38825.9908	44444
5685	2.608	-0.119	-0.345	-0.054	-0.093	11111	1.34	38826.9964	44444
5685	2.624	-0.099	-0.375	-0.007	-0.109	11111	1.44	38845.8760	44444
5685	2.633	-0.116	-0.334	-0.019	-0.083	11111	1.34	38845.9310	44444
5685	2.621	-0.102	-0.371	-0.026	-0.094	11111	1.35	38846.9527	44444
5685	2.617	-0.119	-0.357	-0.019	-0.115	11111	1.37	38849.8905	44444
5685	2.604	-0.104	0.000	0.000	0.000	11000	1.34	38864.8853	22200
5685	2.620	-0.126	-0.346	-0.030	-0.083	11111	1.34	38870.8524	44444
5685	2.605	-0.098	-0.347	-0.032	-0.109	11111	1.41	38871.8144	44444
5685	2.640	-0.115	-0.358	0.012	-0.091	11111	1.35	38872.8408	44444
5685	2.601	-0.134	-0.342	0.000	0.000	11100	1.50	38878.7721	22200
5685	2.612	-0.120	-0.355	0.000	0.000	11100	1.38	38878.8039	22200
5685	2.608	-0.109	-0.368	0.000	0.000	11100	1.43	38878.8978	22200
5685	2.610	-0.102	-0.366	0.000	0.000	11100	1.34	38879.8289	22200
5685	2.631	-0.096	-0.363	0.000	0.000	11100	1.35	38881.8146	44400
5685	2.581	-0.110	-0.384	0.000	0.000	11100	2.00	38881.9608	44400
5685	2.610	-0.094	-0.357	0.000	0.000	11100	1.51	38882.7589	44400
5685	2.631	-0.123	-0.354	0.000	0.000	11100	1.34	38882.8444	44400
5685	2.596	-0.103	-0.349	0.000	0.000	11100	1.35	38899.7676	44400
5685	2.618	-0.105	-0.362	0.000	0.000	11100	1.41	38901.7320	22200
5685	2.612	-0.106	-0.372	-0.038	-0.089	11111	1.93	38903.6537	44444
5685	2.614	-0.118	-0.350	-0.059	-0.087	11111	1.40	38904.7250	44422
5685	2.609	-0.095	-0.366	-0.030	-0.084	11111	1.44	38904.8281	44422
5685	2.569	-0.090	-0.362	-0.092	-0.097	11111	1.35	38905.7869	22222
5685	2.600	-0.129	-0.344	-0.058	-0.082	11111	1.53	38906.6896	44444
5685	2.604	-0.133	-0.358	-0.020	-0.081	11111	1.34	38910.7525	44444
5685	2.596	-0.115	-0.366	-0.044	-0.100	11111	1.34	38911.7383	44444
5685	2.600	-0.094	-0.342	-0.084	-0.105	11111	1.37	38917.7167	44444
5685	2.605	-0.113	-0.367	-0.046	-0.076	11111	1.40	38930.6541	44444
5685	2.603	-0.109	-0.367	-0.039	-0.084	11111	1.37	38931.6645	44444
5685	2.606	-0.131	-0.368	-0.036	-0.054	11111	1.39	38931.7384	44444
5685	2.580	-0.128	-0.369	-0.029	-0.081	11111	1.37	38932.6620	44444
5685	2.611	-0.108	-0.370	-0.039	-0.090	11111	1.38	38933.6532	44444
5685	2.589	-0.113	-0.345	-0.046	-0.080	11111	1.39	38936.6423	44444
5685	2.598	-0.094	-0.358	-0.040	-0.090	11111	1.34	38937.6972	44444
5685	2.598	-0.085	-0.356	-0.076	-0.081	11111	1.37	38938.6477	44444
5685	2.596	-0.078	-0.359	-0.074	-0.061	11111	1.35	38939.6530	44444
5685	2.596	-0.095	-0.375	-0.068	-0.075	11111	1.34	38940.6601	44444
5686	4.315	1.092	1.082	0.811	0.560	11111	2.15	38136.8693	44444
5733	4.320	0.327	0.027	0.338	0.144	11111	1.01	38081.0439	44444
5733	4.327	0.306	0.064	0.292	0.145	11111	1.01	38444.0595	44444
5733	4.340	0.304	0.056	0.283	0.143	11111	1.01	38447.0513	44444
5735	3.027	0.048	0.109	0.128	0.072	11111	1.30	38136.8561	44444
5735	3.064	0.044	0.138	0.028	0.052	11111	1.31	38186.7767	44443
5735	3.067	0.052	0.102	0.096	0.055	11111	1.36	38425.0067	44444
5744	3.295	1.183	1.219	0.797	0.638	11111	1.12	38136.8908	44444
5744	3.335	1.141	1.236	0.769	0.555	11111	1.12	38189.7406	44443
5744	3.297	1.163	1.224	0.780	0.602	11111	1.32	38223.7719	44444
5747	3.671	0.298	0.112	0.158	0.063	11111	1.00	38142.8663	44444
5747	3.657	0.312	0.093	0.160	0.060	11111	1.01	38449.0056	22121
5747	3.725	0.282	0.111	0.190	0.035	11111	1.01	38450.0017	44444
5747	3.670	0.275	0.112	0.202	0.042	11111	1.01	38453.0007	44444
5774	5.036	0.070	0.096	0.214	0.032	11111	1.01	38147.8635	44444
5774	5.003	0.090	0.105	0.085	0.041	11111	1.03	38194.7666	44443
5774	5.005	0.052	0.114	0.142	0.040	11111	1.01	38206.6821	44444
5777	4.599	1.032	0.887	0.761	0.560	11111	1.36	38152.8599	44444
5777	4.654	1.004	0.812	0.808	0.492	11111	1.35	38449.0349	22121
5777	4.602	1.004	0.837	0.747	0.508	11111	1.36	38450.0470	44444
5778	4.175	-0.139	-0.539	-0.006	-0.138	11111	1.00	38148.8670	44444
5778	4.150	-0.136	-0.541	-0.047	-0.123	11111	1.00	38189.7339	44443
5778	0.	-0.189	-0.537	-0.184	-0.118	01111	1.00	38207.6895	02222
5778	4.063	-0.117	-0.565	-0.088	-0.083	11111	1.01	38209.7164	44433
5787	0.	1.042	0.728	0.702	0.574	01111	1.47	38207.6964	02222
5787	3.906	1.019	0.730	0.641	0.543	11111	1.51	38209.7230	44433
5787	3.918	1.014	0.752	0.787	0.521	11111	1.47	38453.0178	44444
5788	3.813	0.220	0.167	0.274	0.118	11111	1.08	38081.0580	44444
5788	3.768	0.278	0.110	0.149	0.109	11111	1.08	38205.7051	22222
5788	3.812	0.272	0.098	0.225	0.122	11111	1.08	38449.0158	22121
5793	2.252	-0.033	-0.038	0.016	-0.025	11111	1.01	38131.8963	44444
5793	2.342	-0.022	-0.044	0.138	-0.053	01101	1.01	38450.0199	44444
5793	2.250	-0.033	-0.005	0.051	-0.045	11111	1.01	38453.0280	44444
5794	3.582	1.377	1.594	0.997	0.753	11111	2.07	38152.8718	44444
5794	3.568	1.402	1.571	0.965	0.705	11111	2.03	38205.7128	22222
5794	3.591	1.377	1.592	1.037	0.707	11111	2.06	38466.9573	44444
5794	3.524	1.415	1.574	1.003	0.694	11111	2.02	38474.9560	44444
5812	3.635	-0.157	-0.721	-0.096	-0.127	11111	2.20	38152.8783	44444
5812	3.689	-0.190	-0.671	-0.130	-0.190	11111	2.13	38201.7076	44421
5812	3.619	-0.178	-0.688	-0.210	-0.198	11111	2.53	38223.7241	44444
5824	4.932	1.332	1.487	0.000	0.000	11100	1.84	38936.6680	44444
5838	4.730	1.582	1.928	1.285	0.944	11111	1.78	38205.7626	22222
5838	4.743	1.578	1.950	1.289	0.945	11111	1.64	38466.9660	44444
5838	4.699	1.583	1.941	1.251	0.957	11111	1.62	38474.9628	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5842	4.561	0.029	-0.020	0.121	-0.009	11111	1.02	38131.9018	44444
5842	4.516	0.058	0.013	0.042	-0.010	11111	1.04	38192.7668	44443
5842	4.510	0.088	0.024	-0.065	-0.007	11111	1.11	38205.7717	22222
5849	3.878	-0.000	-0.084	0.131	-0.059	11101	1.01	38138.9007	33331
5849	3.815	-0.004	-0.012	-0.013	-0.004	11111	1.01	38187.7578	44443
5849	0.	0.003	-0.065	-0.055	-0.036	01111	1.01	38207.7040	02222
5849	3.841	-0.043	-0.012	-0.026	0.013	11111	1.03	38209.7299	44433
5854	2.622	1.148	1.243	0.893	0.522	11111	1.12	37796.8397	22222
5854	2.649	1.164	1.226	0.900	0.551	11111	1.11	37808.7508	22222
5854	2.649	1.167	1.246	0.896	0.548	11111	1.13	37835.6562	22222
5854	2.593	1.191	1.163	0.754	0.610	11111	1.99	38067.9203	44444
5854	2.653	1.168	1.240	0.810	1.089	11110	1.11	38080.0476	12221
5854	2.630	1.168	1.247	0.765	0.569	11111	2.02	38080.8831	44444
5854	2.627	1.141	1.284	0.803	0.583	11111	1.60	38082.9083	44444
5854	2.630	1.172	1.312	0.787	0.576	11111	1.12	38083.0225	44444
5854	2.602	1.173	1.306	0.771	0.609	11111	1.15	38088.9802	22222
5854	2.634	1.114	1.250	0.782	0.540	11111	1.18	38089.9654	22222
5854	2.631	1.175	1.292	0.823	0.569	11111	1.14	38109.0049	44444
5854	2.636	1.171	1.224	0.764	0.607	11111	1.70	38112.8168	44444
5854	2.631	1.134	1.251	0.866	0.587	11111	1.11	38112.9510	44444
5854	2.649	1.179	1.194	0.810	0.558	11111	1.84	38113.8038	44444
5854	2.616	1.182	1.290	0.760	0.565	11111	1.42	38116.8369	22222
5854	2.633	1.196	1.282	0.815	0.561	11111	1.11	38131.9078	44444
5854	2.592	1.202	1.255	0.777	0.578	11111	1.11	38136.8982	44444
5854	2.614	1.189	1.231	0.664	0.597	11111	2.06	38139.7194	44444
5854	2.633	1.184	1.264	0.826	0.567	11111	1.11	38139.8870	44444
5854	2.628	1.159	1.247	0.722	0.560	11111	1.74	38142.7318	44444
5854	2.631	1.149	1.271	0.840	0.543	11111	1.11	38142.8849	44444
5854	2.631	1.179	1.273	0.874	0.556	11111	1.47	38142.9949	44444
5854	2.621	1.175	1.249	0.741	0.581	11111	1.94	38143.7155	44444
5854	2.630	1.173	1.282	0.809	0.541	11111	1.11	38143.8614	44444
5854	2.617	1.171	1.261	0.663	0.634	11111	1.82	38147.7125	44444
5854	2.612	1.165	1.336	0.789	0.556	11111	1.11	38147.8537	44444
5854	2.602	1.169	1.266	0.710	0.593	11111	1.27	38148.7775	44444
5854	2.653	1.140	1.270	0.741	0.553	11111	1.71	38152.7065	44444
5854	2.676	1.217	1.339	0.649	0.640	11111	1.95	38153.6876	44444
5854	2.653	1.134	1.249	0.852	0.542	11111	1.11	38153.8507	44444
5854	2.639	1.144	1.273	0.818	0.564	11111	1.14	38154.8824	44444
5854	2.666	1.150	1.335	0.896	0.575	11111	1.92	38155.0016	44444
5854	2.581	1.180	1.254	0.980	0.287	11111	2.34	38155.6634	44444
5854	2.640	1.158	1.297	0.864	0.533	11111	1.11	38155.8391	44444
5854	2.627	1.164	1.245	0.826	0.565	11111	1.11	38165.8141	44444
5854	2.644	1.161	1.234	0.772	0.557	11111	1.71	38176.6414	44444
5854	2.642	1.167	1.244	0.841	0.576	11111	1.13	38176.7502	44444
5854	2.637	1.180	1.241	0.795	0.565	11111	1.13	38176.8164	44444
5854	2.634	1.182	1.246	0.566	0.555	11111	1.47	38176.9017	44444
5854	2.639	1.186	1.197	0.611	0.524	11111	2.27	38176.9592	44444
5854	2.634	1.161	1.275	0.812	0.580	11111	1.73	38178.6339	44444
5854	2.643	1.149	1.251	0.795	0.571	11111	1.33	38179.6795	44444
5854	2.628	1.172	1.276	0.791	0.557	11111	1.14	38179.7403	44444
5854	2.634	1.186	1.250	0.761	0.552	11111	1.24	38179.8524	44444
5854	2.643	1.145	1.266	0.804	0.575	11111	1.65	38180.6355	44444
5854	2.625	1.174	1.247	0.809	0.560	11111	1.17	38180.7200	44444
5854	2.634	1.175	1.250	0.784	0.565	11111	1.11	38180.7757	44444
5854	2.628	1.188	1.248	0.769	0.562	11111	1.22	38180.8419	44444
5854	2.630	1.177	1.246	0.809	0.540	11111	2.03	38180.9366	44444
5854	2.638	1.161	1.269	0.806	0.541	11111	1.11	38185.7695	22221
5854	2.642	1.171	1.228	0.757	0.564	11111	1.11	38186.7632	44443
5854	2.626	1.180	1.255	0.773	0.562	11111	2.34	38186.9348	44443
5854	2.627	1.168	1.253	0.737	0.569	11111	1.12	38188.7729	44443
5854	2.625	1.167	1.254	0.773	0.559	11111	1.11	38189.7558	44443
5854	2.646	1.178	1.238	0.712	0.578	11111	2.38	38189.9278	44443
5854	2.634	1.172	1.273	0.786	0.564	11111	1.33	38200.8144	44444
5854	2.639	1.170	1.234	0.806	0.567	11111	1.20	38202.6508	44444
5854	0.	1.145	1.301	0.808	0.521	01111	1.11	38207.7106	02222
5854	2.610	1.169	1.231	0.744	0.574	11111	1.15	38209.7366	44433
5854	2.653	1.175	1.242	0.819	0.554	11111	2.16	38222.8290	44443
5854	2.654	1.202	1.235	0.811	0.581	11111	2.92	38284.6845	44444
5854	2.649	1.157	1.262	0.764	0.594	11111	1.66	38298.5886	22222
5854	2.636	1.194	1.246	0.798	0.579	11111	2.59	38306.6157	44444
5854	2.688	1.213	1.244	0.840	0.601	11111	3.00	38307.6237	44444
5854	2.650	1.188	1.250	0.835	0.573	11111	2.30	38309.5973	11111
5854	2.630	1.178	1.275	0.793	0.598	11111	2.30	38310.5944	44444
5854	2.650	1.179	1.203	0.876	0.563	11111	2.20	38381.0521	44444
5854	2.645	1.172	1.217	0.820	0.552	11111	2.14	38389.0330	44444
5854	2.619	1.180	1.272	0.839	0.559	11111	1.33	38415.0355	22222
5854	2.602	1.187	1.248	0.835	0.561	11111	1.20	38420.0550	44444
5854	2.638	1.187	1.230	0.850	0.570	11111	2.35	38438.8875	44444
5854	2.643	1.167	1.248	0.840	0.556	11111	1.14	38439.0303	44444
5854	2.617	1.167	1.281	0.821	0.552	11111	1.12	38439.0498	44444
5854	2.637	1.189	1.235	0.861	0.568	11111	2.09	38440.8934	44444
5854	2.639	1.193	1.231	0.000	0.000	11100	2.08	38440.8941	44400
5854	2.631	1.163	1.272	0.000	0.000	11100	1.12	38441.0431	44400
5854	2.612	1.186	1.269	0.854	0.541	11111	1.11	38441.0470	44444
5854	2.618	1.204	1.246	0.831	0.561	11111	2.17	38446.8732	44444
5854	2.625	1.183	1.228	0.813	0.555	11111	1.11	38447.0413	44444
5854	2.636	1.208	1.232	0.868	0.554	11111	2.21	38448.8657	44444
5854	2.622	1.157	1.246	0.834	0.550	11111	1.11	38450.0377	44444
5854	2.648	1.204	1.207	0.870	0.559	11111	2.27	38452.8526	44444
5854	2.653	1.205	1.226	0.891	0.565	11111	2.31	38453.8479	44444
5854	2.637	1.150	1.329	0.000	0.000	11100	1.12	38459.9890	44400
5854	2.625	1.168	1.325	0.000	0.000	11100	1.11	38463.9856	22200
5854	2.641	1.165	1.252	0.851	0.549	11111	1.11	38463.9860	22222
5854	0.000	1.151	1.292	0.000	0.000	01100	1.19	38464.9337	44400
5854	2.626	1.169	1.261	0.840	0.568	11111	1.15	38464.9500	44444
5854	2.638	1.178	1.258	0.838	0.565	11111	1.67	38466.8500	44444
5854	2.635	1.162	1.264	0.000	0.000	11100	1.23	38466.9166	22200
5854	2.632	1.169	1.259	0.854	0.545	11111	1.14	38467.0281	44444
5854	2.623	1.153	1.256	0.829	0.562	11111	2.09	38474.8004	44444
5854	2.640	1.163	1.270	0.000	0.000	11100	1.11	38474.9604	44400
5854	2.609	1.184	1.251	0.835	0.562	11111	1.11	38474.9697	44444
5854	2.657	1.154	1.273	0.829	0.561	11111	1.54	38496.7818	44444
5854	2.646	1.169	1.247	0.819	0.556	11111	1.13	38496.9396	44444
5854	2.654	1.152	1.241	0.819	0.555	11111	2.00	38498.7401	44444
5854	2.630	1.165	1.237	0.816	0.574	11111	2.01	38499.7368	44444
5854	2.641	1.163	1.270	0.836	0.556	11111	1.12	38506.8958	22222
5854	2.640	1.178	1.244	0.817	0.561	11111	1.13	38508.8414	22222
5854	2.639	1.169	1.248	0.816	0.564	11111	1.13	38510.8982	22222

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5854	2.614	1.173	1.261	0.839	0.544	11111	1.11	38511.8596	44444
5854	2.635	1.156	1.249	0.841	0.544	11111	1.15	38512.8192	22222
5854	2.617	1.164	1.268	0.817	0.560	11111	1.36	38513.7593	22222
5854	2.612	1.173	1.242	0.780	0.561	11111	1.31	38515.7630	44444
5854	2.622	1.172	1.262	0.818	0.558	11111	1.12	38515.8302	44444
5854	2.666	1.162	1.254	0.831	0.575	11111	1.46	38515.9716	44444
5854	0.000	1.161	1.220	0.000	0.000	01100	2.16	38517.6797	44444
5854	2.622	1.172	1.250	0.814	0.569	11111	1.12	3851P.8329	22222
5854	2.658	1.162	1.259	0.849	0.573	11111	1.99	38521.6776	44444
5854	2.624	1.175	1.253	0.806	0.547	11111	1.12	38521.8568	44444
5854	2.645	1.163	1.249	0.795	0.585	11111	1.13	38522.8073	22222
5854	2.658	1.151	1.269	0.807	0.558	11111	1.94	38523.6750	44444
5854	2.631	1.167	1.248	0.795	0.558	11111	1.11	38523.8443	44444
5854	2.605	1.166	1.247	0.000	0.000	11100	1.13	38524.8010	22200
5854	2.644	1.172	1.237	0.759	0.578	11111	2.00	38525.6662	44444
5854	2.646	1.166	1.259	0.000	0.000	11100	1.11	38528.8108	44400
5854	2.648	1.159	1.250	0.813	0.571	11111	1.11	38531.8057	44444
5854	2.635	1.181	1.236	0.839	0.547	11111	1.17	38532.7575	22222
5854	2.644	1.172	1.246	0.843	0.557	11111	1.12	38533.7890	44444
5854	2.656	1.178	1.240	0.851	0.562	11111	1.50	38533.9277	44444
5854	2.658	1.156	1.253	0.859	0.556	11111	1.26	38534.7226	44444
5854	2.625	1.166	1.243	0.837	0.557	11111	1.11	38534.8012	44444
5854	2.647	1.181	1.236	0.830	0.559	11111	1.18	38535.8590	22222
5854	2.642	1.188	1.246	0.791	0.571	11111	1.11	38543.7731	22222
5854	2.623	1.151	1.258	0.776	0.585	11111	1.12	38544.7984	44444
5854	2.686	1.213	1.257	1.077	0.612	11101	1.14	38546.8095	22222
5854	2.661	1.176	1.239	0.828	0.577	11111	1.68	38547.6286	22222
5854	2.649	1.171	1.244	0.799	0.560	11111	1.11	38553.7482	44444
5854	2.653	1.169	1.258	0.827	0.557	11111	1.13	38555.7734	44444
5854	2.635	1.172	1.250	0.792	0.546	11111	1.11	38556.7463	44444
5854	2.624	1.185	1.250	0.775	0.551	11111	1.20	38557.8032	44444
5854	2.642	1.198	1.240	0.781	0.588	11111	1.15	38559.7794	44444
5854	2.629	1.166	1.242	0.803	0.576	11111	2.44	38559.9168	44444
5854	2.655	1.153	1.245	0.835	0.552	11111	1.13	38561.6967	22222
5854	2.661	1.156	1.258	0.837	0.570	11111	1.15	38562.7678	22222
5854	2.664	1.147	1.256	0.840	0.563	11111	1.26	38563.6439	22222
5854	2.624	1.170	1.238	0.820	0.557	11111	1.11	38564.7328	22222
5854	2.629	1.162	1.250	0.796	0.557	11111	1.18	38565.7772	22222
5854	2.639	1.166	1.256	0.827	0.552	11111	1.11	38566.7036	22222
5854	2.639	1.177	1.252	0.824	0.556	11111	1.12	38568.6951	22222
5854	2.659	1.178	1.231	0.000	0.000	11100	2.43	38811.8633	44400
5854	2.614	1.174	1.211	0.830	0.554	11111	1.12	38823.0358	44444
5854	2.634	1.154	1.258	0.819	0.556	11111	1.15	38823.9677	44444
5854	2.633	1.160	1.257	0.835	0.560	11111	1.24	38824.9337	44444
5854	2.621	1.155	1.255	0.809	0.566	11111	1.11	38826.0001	44444
5854	2.619	1.182	1.257	0.779	0.573	11111	1.11	38827.0055	44444
5854	2.652	1.173	1.271	0.844	0.557	11111	1.20	38845.8868	44444
5854	2.649	1.159	1.259	0.830	0.565	11111	1.11	38845.9486	44444
5854	2.641	1.176	1.244	0.823	0.568	11111	1.21	38846.8812	44444
5854	2.654	1.169	1.261	0.850	0.557	11111	1.11	38846.9617	44444
5854	2.636	1.179	1.256	0.807	0.575	11111	1.12	38849.9232	44444
5854	2.652	1.171	1.249	0.812	0.554	11111	1.12	38870.8598	44444
5854	2.634	1.160	1.263	0.817	0.565	11111	1.13	38871.8546	44444
5854	2.681	1.196	1.254	0.854	0.537	11111	2.32	38872.7007	44444
5854	2.646	1.162	1.235	0.000	0.000	11100	1.26	38878.7811	22200
5854	2.651	1.155	1.235	0.000	0.000	11100	1.17	38878.8082	22200
5854	2.639	1.168	1.248	0.000	0.000	11100	1.15	38878.9020	22200
5854	2.637	1.156	1.244	0.000	0.000	11100	1.12	38879.8341	22200
5854	2.651	1.146	1.262	0.000	0.000	11100	1.12	38881.8283	44400
5854	2.625	1.173	1.242	0.000	0.000	11100	1.28	38882.7640	44400
5854	2.645	1.156	1.254	0.000	0.000	11100	1.11	38882.8480	44400
5854	2.636	1.180	1.217	0.000	0.000	11100	1.19	38901.7376	22200
5854	2.640	1.158	1.248	0.800	0.555	11111	1.16	38903.7445	44444
5854	2.649	1.172	1.223	0.000	0.000	11100	1.93	38904.6327	44422
5854	2.650	1.137	1.276	0.812	0.567	11111	1.19	38904.7319	44422
5854	2.623	1.151	1.262	0.814	0.547	11111	1.11	38905.7952	22222
5854	2.628	1.188	1.241	0.774	0.574	11111	1.16	38906.8313	44444
5854	2.642	1.178	1.264	0.805	0.563	11111	1.12	38912.7872	44444
5854	2.639	1.152	1.262	0.788	0.559	11111	1.19	38930.6605	44444
5854	2.623	1.165	1.255	0.796	0.548	11111	1.16	38931.6710	44444
5854	2.609	1.162	1.246	0.798	0.584	11111	1.16	38932.6679	44444
5854	2.621	1.167	1.239	0.791	0.557	11111	1.17	38933.6610	44444
5854	2.632	1.177	1.249	0.786	0.560	11111	1.18	38936.6486	44444
5854	2.658	1.150	1.246	0.842	0.539	11111	1.15	38938.6545	44444
5854	2.631	1.177	1.251	0.789	0.563	11111	1.14	38939.6594	44444
5854	2.641	1.167	1.227	0.787	0.573	11111	1.12	38940.6672	44444
5854	2.636	1.156	1.230	0.000	0.000	11100	2.49	39033.6217	44400
5859	5.598	0.046	0.041	0.065	0.000	11111	1.19	38425.0453	44444
5859	5.573	0.032	0.030	0.048	-0.005	11111	1.12	38561.7411	22222
5867	3.613	0.096	0.093	0.081	0.020	11111	1.05	38136.9052	44444
5867	3.656	0.044	0.041	0.065	-0.005	11111	1.06	38157.8061	12211
5867	3.654	0.074	0.100	0.091	0.025	11111	1.06	38192.7741	44443
5867	3.630	0.053	0.088	-0.006	0.075	11111	1.26	38223.7592	44444
5868	4.453	0.600	0.078	0.541	0.333	11111	1.14	38147.9068	44444
5868	4.434	0.618	0.092	0.500	0.311	11111	1.17	38190.8046	44443
5868	4.415	0.606	0.097	0.483	0.324	11111	1.32	38223.7533	44444
5879	4.147	1.567	1.934	1.432	0.932	11111	1.04	38138.9071	33331
5879	4.103	1.611	1.929	1.254	0.964	11111	1.06	38192.7809	44443
5879	4.068	1.610	1.899	1.186	0.988	11111	1.03	38206.7109	44444
5879	4.103	1.632	2.029	1.303	1.006	11111	1.06	38475.9264	44444
5881	3.533	-0.022	-0.109	-0.030	-0.040	11111	1.30	38192.7948	44443
5881	3.533	-0.042	-0.127	-0.030	-0.050	11111	1.23	38224.6586	44444
5881	3.525	-0.040	-0.088	0.027	-0.066	11111	1.25	38508.8503	22222
5885	4.647	-0.053	-0.713	0.010	-0.091	11111	1.89	38153.8374	44444
5885	0.	-0.047	-0.777	-0.072	-0.089	01111	1.89	38207.7176	02222
5885	4.713	-0.078	-0.707	0.051	-0.086	11111	1.91	38508.8583	22222
5889	4.628	0.816	0.338	0.662	0.398	11111	1.01	38147.8725	44444
5889	4.615	0.786	0.373	0.626	0.425	11111	1.01	38203.7045	44444
5889	4.603	0.798	0.368	0.595	0.444	11111	1.20	38223.7650	44444
5889	4.660	0.790	0.405	0.000	0.000	11100	1.01	38464.0056	22200

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5892	3.695	0.194	0.073	0.139	0.059	11111	1.15	38148.8960	44444
5892	3.710	0.159	0.096	0.071	0.037	11111	1.20	38192.8019	44443
5892	3.694	0.132	0.097	0.006	0.064	11111	1.31	38223.7467	44444
5899	4.784	1.529	1.921	1.210	0.892	11111	1.02	38131.9135	44444
5899	4.768	1.550	1.885	1.206	0.840	11111	1.05	38192.7878	44443
5899	0.	1.532	1.854	1.228	0.838	01111	1.03	38207.7248	02222
5899	4.789	1.443	1.879	1.230	0.900	11111	1.10	38209.7670	44433
5901	4.844	0.975	0.872	0.772	0.517	11111	1.02	38142.9129	44444
5901	4.818	0.986	0.884	0.709	0.498	11111	1.00	38161.8259	44444
5901	4.818	1.002	0.875	0.753	0.491	11111	1.05	38190.8113	44443
5901	4.811	1.015	0.849	0.807	0.467	11111	1.00	38201.7165	44421
5903	4.317	0.097	0.029	0.064	0.070	11111	1.43	38148.8767	44444
5903	4.315	0.015	0.049	0.138	-0.011	11111	1.43	38161.8194	44444
5903	4.297	0.006	0.026	0.010	-0.010	11111	1.43	38203.7110	44444
5903	4.281	0.035	0.044	0.023	-0.010	11111	1.43	38224.6520	44444
5903	4.345	0.047	0.054	0.118	0.013	11111	1.44	38466.9477	44444
5903	4.353	0.051	0.069	0.025	0.017	11111	1.44	38475.9180	44444
5904	4.597	-0.028	-0.680	-0.071	-0.047	11111	1.87	38153.8436	44444
5904	4.602	-0.077	-0.636	0.031	-0.074	11111	1.87	38187.7699	44443
5904	4.591	-0.072	-0.682	0.020	-0.088	11111	1.87	38466.9841	44444
5904	4.565	-0.070	-0.674	0.011	-0.084	11111	1.86	38474.9764	44444
5908	4.159	1.020	0.825	0.731	0.508	11111	1.53	38204.7309	44444
5908	4.148	0.998	0.830	0.702	0.533	11111	1.78	38223.7397	44444
5914	4.642	0.571	-0.003	0.458	0.371	11111	1.02	38131.9337	44444
5914	4.609	0.591	0.001	0.501	0.307	11111	1.07	38190.8186	44443
5914	4.633	0.587	-0.012	0.472	0.303	11111	1.02	38204.7375	44444
5928	3.864	-0.190	-0.806	-0.149	-0.214	11111	2.16	38224.6950	44444
5928	3.868	-0.195	-0.827	-0.081	-0.207	11111	2.09	38466.9915	44444
5928	3.832	-0.200	-0.826	-0.066	-0.205	11111	2.09	38474.9827	44444
5932	5.398	1.629	1.936	0.000	0.000	11100	1.03	38936.6774	44444
5933	3.915	0.445	-0.018	0.529	0.252	11111	1.06	38138.9237	33331
5933	0.	0.529	-0.071	0.387	0.267	01111	1.05	38207.7318	02222
5933	3.863	0.474	-0.039	0.451	0.253	11111	1.04	38466.9985	44444
5933	3.866	0.480	-0.031	0.499	0.206	11111	1.06	38500.8729	22221
5941	4.915	-0.101	-0.242	-0.034	-0.025	11111	1.47	38153.8750	44444
5941	4.835	-0.101	-0.134	-0.040	-0.057	11111	1.46	38508.8671	22222
5941	4.899	-0.089	-0.130	-0.010	-0.053	11111	1.49	38521.8819	44444
5941	4.850	-0.093	-0.143	-0.032	-0.048	11111	1.46	38522.8321	22222
5941	4.859	-0.091	-0.156	-0.040	-0.076	11111	1.59	38546.7188	22222
5944	2.923	-0.219	-0.907	-0.006	-0.215	11111	1.91	38153.8594	44444
5944	2.868	-0.170	-0.891	-0.142	-0.190	11111	1.99	38224.7011	44444
5944	2.943	-0.218	-0.858	-0.072	-0.208	11111	1.91	38508.8745	22222
5947	4.154	1.237	1.275	0.929	0.635	11111	1.03	37835.6652	22222
5947	4.141	1.234	1.266	0.090	-0.040	11100	1.00	37836.7062	22222
5947	4.154	1.232	1.209	0.948	0.569	11111	1.75	38082.8720	44444
5947	4.154	1.181	1.291	0.922	0.633	11111	1.01	38083.0345	44444
5947	4.164	1.240	1.229	0.982	0.606	11111	1.79	38083.8661	44444
5947	4.131	1.242	1.261	0.912	0.622	11111	1.61	38083.8813	44444
5947	4.137	1.230	1.255	0.922	0.589	11111	1.58	38088.8708	22222
5947	4.151	1.214	1.268	0.930	0.583	11111	1.04	38088.9878	22222
5947	4.365	1.059	1.373	0.877	0.717	11111	1.71	38089.8559	22222
5947	4.167	1.167	1.268	0.870	0.607	11111	1.05	38089.9746	22222
5947	4.152	1.230	1.283	0.890	0.630	11111	1.96	38109.7840	44444
5947	4.158	1.209	1.258	0.894	0.591	11111	1.11	38112.8876	44444
5947	4.109	1.230	1.299	0.804	0.662	11111	2.29	38136.6942	44444
5947	4.134	1.237	1.238	0.914	0.657	11111	1.01	38136.9121	44444
5947	4.174	1.218	1.251	0.870	0.635	11111	1.87	38142.6995	44444
5947	4.171	1.244	1.271	0.982	0.531	11111	1.01	38142.8939	44444
5947	4.154	1.227	1.269	0.819	0.676	11111	1.93	38143.6934	44444
5947	4.173	1.225	1.297	0.908	0.663	11111	1.01	38143.8699	44444
5947	4.162	1.240	1.254	0.885	0.632	11111	1.69	38144.7077	22222
5947	4.146	1.249	1.250	0.705	0.722	11111	1.95	38147.6809	44444
5947	4.155	1.240	1.292	0.964	0.630	11111	1.01	38147.8801	44444
5947	4.158	1.255	1.238	0.959	0.637	11111	1.26	38147.9912	44444
5947	4.156	1.232	1.280	0.895	0.621	11111	2.12	38148.6691	44444
5947	4.151	1.219	1.294	0.879	0.599	11111	1.01	38148.8586	44444
5947	4.151	1.265	1.261	0.955	0.643	11111	1.14	38148.9607	44444
5947	4.147	1.222	1.269	0.900	0.625	11111	2.30	38161.6256	44444
5947	4.150	1.233	1.279	0.891	0.636	11111	1.00	38161.8316	44444
5947	4.146	1.230	1.270	0.892	0.631	11111	2.29	38162.6233	44444
5947	4.150	1.230	1.280	0.890	0.630	11111	1.90	38165.6349	44444
5947	4.146	1.229	1.265	0.912	0.650	11111	1.00	38165.8204	44444
5947	4.150	1.230	1.280	0.890	0.630	11111	1.96	38166.6287	44444
5947	4.151	1.230	1.280	0.890	0.620	11111	1.00	38167.8170	12221
5947	4.167	1.226	1.268	0.867	0.632	11111	1.08	38176.7242	44444
5947	4.148	1.210	1.293	0.947	0.614	11111	1.14	38178.6971	44444
5947	4.165	1.209	1.270	0.944	0.625	11111	1.14	38179.6960	44444
5947	4.160	1.228	1.258	0.909	0.624	11111	1.02	38179.7510	44444
5947	4.159	1.228	1.279	0.934	0.644	11111	1.05	38180.7275	44444
5947	0.	1.258	1.269	0.865	0.623	01111	1.08	38180.8501	44444
5947	4.158	1.235	1.262	0.890	0.613	11111	1.06	38183.8315	44421
5947	4.162	1.236	1.251	0.895	0.631	11111	1.01	38185.7754	22221
5947	4.169	1.218	1.269	0.934	0.609	11111	1.00	38186.7694	44443
5947	4.150	1.206	1.289	0.900	0.640	11111	1.00	38187.7634	44443
5947	4.153	1.243	1.280	0.885	0.631	11111	2.47	38187.9786	44443
5947	4.154	1.225	1.276	0.882	0.639	11111	1.01	38188.7791	44443
5947	4.153	1.215	1.280	0.893	0.636	11111	1.01	38189.7687	44443
5947	4.159	1.246	1.283	0.953	-0.040	11110	2.44	38189.9721	44443
5947	4.147	1.226	1.285	0.912	0.626	11111	1.01	38190.7616	44443
5947	4.164	1.229	1.265	0.911	0.629	11111	1.00	38192.7532	44443
5947	4.156	1.232	1.286	0.915	0.614	11111	2.62	38192.9701	44443
5947	4.143	1.233	1.272	0.911	0.621	11111	1.01	38194.7502	44443
5947	4.177	1.219	1.279	0.914	0.604	11111	2.54	38194.9621	44443
5947	4.144	1.223	1.288	0.913	0.636	11111	1.01	38199.7402	44443
5947	4.167	1.223	1.267	0.863	0.629	11111	2.66	38199.9521	44443
5947	4.160	1.223	1.260	0.889	0.630	11111	1.15	38200.8219	44444
5947	4.156	1.234	1.260	0.915	0.625	11111	2.43	38200.9416	44444
5947	4.151	1.232	1.272	0.893	0.601	11111	1.01	38201.7334	44421

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5947	4.179	1.236	1.268	0.897	0.631	11111	1.13	38202.6339	44444
5947	4.156	1.267	1.228	0.902	0.575	11111	2.13	38202.9234	44444
5947	4.161	1.233	1.271	0.825	0.637	11111	1.09	38203.6460	44444
5947	4.177	1.212	1.280	0.804	0.631	11111	1.01	38203.7380	44444
5947	4.170	1.224	1.255	0.872	0.630	11111	2.26	38203.9269	44444
5947	4.173	1.230	1.273	0.836	0.626	11111	1.04	38204.6687	44444
5947	4.120	1.346	1.234	0.870	0.623	11111	2.32	38204.9266	44444
5947	4.167	1.244	1.273	0.871	0.607	11111	1.01	38205.6889	22222
5947	4.177	1.210	1.268	0.955	0.564	11111	2.70	38206.9342	44444
5947	0.	1.253	1.238	0.820	0.624	01111	1.07	38207.6444	02222
5947	4.151	1.239	1.275	0.890	0.617	11111	1.01	38211.7069	44443
5947	4.168	1.231	1.317	0.916	0.623	11111	1.01	38216.6898	44444
5947	4.172	1.244	1.286	0.944	0.633	11111	1.01	38223.6761	44444
5947	4.157	1.247	1.252	0.827	0.644	11111	2.81	38223.8910	44444
5947	4.163	1.229	1.265	0.873	0.621	11111	1.01	38224.6810	44444
5947	4.154	1.220	1.267	0.889	0.621	11111	3.37	38224.9010	44444
5947	4.146	1.255	1.250	0.888	0.627	11111	2.59	38225.8790	44444
5947	4.150	1.230	1.280	0.890	0.630	11111	1.03	38226.6943	44444
5947	4.125	1.226	1.283	0.890	0.630	11111	2.50	38227.8705	44444
5947	4.148	1.229	1.273	0.891	0.633	11111	2.92	38228.8803	44444
5947	4.140	1.244	1.271	0.891	0.630	11111	2.73	38290.7059	44444
5947	3.936	1.215	1.309	0.770	0.594	11111	2.62	38291.6997	34421
5947	4.148	1.234	1.266	0.892	0.623	11111	2.87	38294.6986	44444
5947	4.149	1.224	1.279	0.886	0.648	11111	2.28	38305.6493	44444
5947	4.160	1.236	1.287	0.897	0.655	11111	2.23	38307.6414	44444
5947	4.136	1.248	1.242	0.901	0.636	11111	2.45	38311.6394	44444
5947	4.116	1.220	1.282	0.894	0.618	11111	2.87	38315.6412	44444
5947	3.955	1.223	1.040	0.808	0.598	11111	3.72	38408.9125	44444
5947	3.923	1.126	0.904	0.881	0.479	11111	3.11	38410.9196	44444
5947	4.180	1.238	1.253	0.938	0.630	11111	1.38	38415.9983	44444
5947	4.159	1.221	1.286	0.929	0.635	11111	1.16	38425.0162	44444
5947	4.155	1.251	1.256	0.947	0.616	11111	2.20	38443.8572	44444
5947	4.132	1.232	1.300	0.913	0.630	11111	1.01	38444.0482	44444
5947	4.166	1.257	1.276	0.930	0.622	11111	2.23	38449.8392	44444
5947	4.134	1.268	1.275	0.940	0.646	11111	2.18	38450.8389	44444
5947	4.141	1.278	1.241	0.926	0.650	11111	2.22	38451.8344	44444
5947	4.156	1.217	1.269	0.926	0.622	11111	1.00	38453.0382	44444
5947	4.141	1.249	1.230	0.000	0.000	11100	2.38	38459.8060	44400
5947	4.170	1.229	1.214	0.000	0.000	11100	1.01	38464.0264	22200
5947	4.159	1.244	1.224	0.000	0.000	11100	2.36	38464.7931	44400
5947	4.155	1.229	1.270	0.000	0.000	11100	1.90	38466.8104	22200
5947	4.134	1.250	1.267	0.890	0.645	11111	1.53	38469.8322	44444
5947	4.174	1.243	1.302	0.000	0.000	11100	1.00	38473.9757	44400
5947	4.163	1.216	1.309	0.963	0.613	11111	2.05	38475.7770	44444
5947	4.146	1.233	1.282	0.909	0.630	11111	1.01	38480.9745	44444
5947	4.155	1.239	1.278	0.901	0.611	11111	2.05	38499.7115	44444
5947	4.119	1.225	1.280	0.891	0.625	11111	1.01	38508.8994	22222
5947	4.149	1.235	1.276	0.901	0.632	11111	2.03	38509.6856	44444
5947	4.170	1.198	1.310	0.913	0.628	11111	1.00	38512.8684	22222
5947	4.141	1.228	1.290	0.904	0.637	11111	1.15	38513.7766	22222
5947	4.105	1.261	1.270	0.000	0.000	11100	1.04	38513.8258	22222
5947	4.166	1.221	1.279	0.893	0.626	11111	1.22	38515.7538	44444
5947	4.148	1.234	1.277	0.889	0.625	11111	1.01	38515.8547	44444
5947	4.179	1.229	1.280	0.921	0.634	11111	1.28	38515.9873	44444
5947	4.149	1.233	1.271	0.871	0.633	11111	1.01	38517.8787	44444
5947	4.164	1.256	1.291	0.889	0.627	11111	1.04	38519.9009	44444
5947	4.137	1.224	1.273	0.905	0.633	11111	1.01	38522.8605	22222
5947	4.108	1.242	1.281	0.000	0.000	11100	1.02	38524.8687	22200
5947	4.149	1.230	1.270	0.000	0.000	11100	1.32	38526.9649	22200
5947	4.140	1.244	1.267	0.000	0.000	11100	1.01	38527.8223	22200
5947	4.158	1.222	1.285	0.000	0.000	11100	1.10	38527.9080	22200
5947	4.154	1.230	1.281	0.000	0.000	11100	1.98	38528.6362	44400
5947	4.154	1.228	1.286	0.000	0.000	11100	1.01	38528.8149	44400
5947	4.151	1.233	1.268	0.884	0.636	11111	1.01	38531.7952	44444
5947	4.125	1.245	1.287	0.878	0.631	11111	1.01	38532.8255	22222
5947	4.119	1.209	1.288	0.888	0.628	11111	1.44	38532.9654	22222
5947	4.162	1.233	1.281	0.901	0.628	11111	1.00	38533.8179	44444
5947	4.123	1.229	1.263	0.861	0.629	11111	1.00	38534.8089	44444
5947	4.162	1.243	1.298	0.880	0.627	11111	1.27	38534.9341	44444
5947	4.179	1.236	1.259	0.869	0.636	11111	1.00	38535.8075	22222
5947	4.154	1.203	1.298	0.872	0.640	11111	1.24	38535.9247	22222
5947	4.149	1.230	1.280	0.891	0.629	11111	1.31	38546.6524	22222
5947	4.139	1.224	1.272	0.873	0.613	11111	1.01	38547.7904	22222
5947	4.171	1.230	1.272	0.000	0.000	11100	1.02	38552.7356	22200
5947	4.131	1.242	1.280	0.000	0.000	11100	1.07	38552.8301	22200
5947	4.134	1.234	1.278	0.876	0.618	11111	1.01	38558.7280	44444
5947	4.151	1.238	1.266	0.879	0.631	11111	1.04	38563.6881	22222
5947	4.165	1.227	1.268	0.897	0.615	11111	1.15	38564.6367	22222
5947	4.150	1.215	1.271	0.867	0.637	11111	1.01	38564.7237	22222
5947	4.172	1.231	1.292	0.882	0.620	11111	1.08	38565.6613	22222
5947	4.162	1.233	1.268	0.892	0.636	11111	1.01	38565.7184	22222
5947	4.121	1.227	1.277	0.848	0.638	11111	1.11	38566.6460	22222
5947	4.156	1.230	1.266	0.871	0.636	11111	1.00	38566.7254	22222
5947	4.103	1.250	1.278	0.859	0.618	11111	1.11	38567.6434	22222
5947	4.152	1.256	1.268	0.847	0.648	11111	1.06	38567.7799	22222
5947	4.123	1.241	1.270	0.854	0.638	11111	1.06	38568.6593	22222
5947	4.111	1.230	1.284	0.833	0.634	11111	1.01	38568.7143	22222
5947	4.175	1.249	1.286	0.920	0.636	11111	1.24	38577.8106	22222
5947	4.121	1.231	1.269	0.865	0.617	11111	1.05	38579.7424	22222
5947	4.124	1.243	1.221	0.869	0.640	11111	2.03	38784.9318	44444
5947	4.110	1.230	1.298	0.839	0.638	11111	1.06	38796.0388	44444
5947	4.154	1.234	1.261	0.000	0.000	11100	1.50	38809.9043	44400
5947	4.130	1.225	1.282	0.887	0.613	11111	1.03	38823.9775	44444
5947	4.124	1.230	1.290	0.873	0.621	11111	1.10	38824.9426	44444
5947	4.124	1.222	1.290	0.903	0.598	11111	1.01	38826.0090	44444
5947	4.142	1.212	1.280	0.908	0.604	11111	1.00	38827.0154	44444
5947	4.144	1.234	1.266	0.879	0.628	11111	1.00	38845.9581	44444
5947	4.155	1.228	1.271	0.921	0.607	11111	1.01	38846.9694	44444
5947	4.154	1.242	1.270	0.920	0.610	11111	1.01	38849.9321	44444
5947	4.145	1.236	1.281	0.000	0.000	11100	1.00	38864.9058	22200
5947	4.139	1.224	1.273	0.000	0.000	11100	1.01	38878.8618	22200
5947	4.153	1.233	1.273	0.000	0.000	11100	1.04	38878.9221	22200
5947	4.134	1.235	1.285	0.000	0.000	11100	1.01	38900.8037	44400
5947	4.144	1.253	1.273	0.887	0.629	11111	1.02	38904.8361	44422
5947	4.151	1.231	1.249	0.896	0.630	11111	1.06	38905.8566	22222
5947	4.170	1.221	1.316	0.908	0.630	11111	1.03	38906.8383	44444
5947	4.155	1.233	1.291	0.897	0.623	11111	1.03	38908.8271	44444
5947	4.129	1.244	1.268	0.886	0.614	11111	1.01	38910.7591	44444
5947	4.121	1.237	1.284	0.883	0.617	11111	1.03	38911.7442	44444
5947	4.162	1.238	1.273	0.897	0.621	11111	1.02	38912.7510	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5947	4.144	1.236	1.282	0.900	0.632	11111	1.01	38932.7328	44444
5947	4.174	1.231	1.281	0.905	0.633	11111	1.00	38933.7208	44444
5947	4.153	1.228	1.278	0.884	0.614	11111	1.01	38936.6879	44444
5947	4.140	1.253	1.268	0.897	0.618	11111	1.01	38937.6903	44444
5947	4.158	1.247	1.269	0.898	0.623	11111	1.02	38938.7337	44444
5947	4.161	1.229	1.257	0.898	0.632	11111	1.00	38939.7102	44444
5947	4.141	1.230	1.287	0.893	0.626	11111	1.02	38940.7313	44444
5947	4.138	1.232	1.272	0.000	0.000	11100	1.98	39034.6381	44400
5953	2.323	-0.092	-0.938	0.054	-0.111	11111	1.77	38152.8869	44444
5953	2.313	-0.106	-0.852	-0.096	-0.176	11111	1.76	38202.7463	44444
5953	2.327	-0.136	-0.885	-0.018	-0.148	11111	1.74	38508.8816	22222
5953	2.326	-0.142	-0.908	-0.039	-0.128	11111	1.74	38872.8919	44444
5960	4.989	0.270	0.027	0.210	0.177	11111	1.08	38148.8865	44444
5960	4.972	0.254	0.055	0.275	0.130	11111	1.08	38187.7761	44443
5960	4.894	0.245	0.038	0.218	0.093	11111	1.08	38206.7176	44444
5971	5.020	-0.095	-0.222	0.014	-0.065	11111	1.00	38131.9279	44444
5971	5.003	-0.048	-0.204	0.031	-0.092	11111	1.00	38467.0064	44444
5971	4.902	-0.055	-0.177	-0.018	-0.092	11111	1.00	38508.8898	22222
5972	4.859	0.045	0.024	0.098	0.018	11111	1.01	38131.9197	44444
5972	4.837	0.086	0.074	0.094	0.001	11111	1.02	38201.7481	44421
5972	4.799	0.082	0.042	0.111	-0.002	11111	1.04	38224.7081	44444
5978	4.160	0.471	-0.023	0.377	0.252	11111	1.38	38153.8681	44444
5978	4.185	0.469	0.045	0.357	0.226	11111	1.40	38201.7562	44421
5982	4.799	-0.120	-0.345	0.073	-0.093	11111	1.03	38138.9138	33331
5982	4.736	-0.102	-0.319	-0.025	-0.102	11111	1.03	38161.8442	44444
5982	4.718	-0.185	-0.267	-0.184	-0.114	11111	1.03	38206.7248	44444
5982	4.729	-0.101	-0.301	0.000	0.000	11100	1.03	38464.0090	22200
5984	2.501	-0.062	-0.813	-0.062	-0.153	11111	1.65	38202.7533	44444
5984	2.586	-0.085	-0.803	-0.025	-0.002	11111	2.88	38285.6354	23333
5984	2.576	-0.097	-0.833	-0.001	-0.065	11111	2.08	38288.5860	12221
5984	2.489	-0.079	-0.856	0.003	-0.099	11111	1.66	38872.9198	44444
5986	4.077	0.490	0.066	0.501	0.294	11111	1.13	38142.9218	44444
5986	4.025	0.506	0.093	0.386	0.202	11111	1.12	38206.7311	44444
5986	4.064	0.525	0.095	0.468	0.261	11111	1.14	38475.9342	44444
5993	0.	-0.013	-0.821	0.051	-0.143	01111	1.71	38207.7486	02222
5993	3.969	-0.049	-0.843	0.071	-0.074	11111	1.66	38467.0137	44444
5993	3.998	-0.081	-0.781	0.084	-0.058	11111	1.66	38506.9053	22222
5993	3.950	-0.056	-0.816	0.038	-0.064	11111	1.66	38872.9008	44444
5997	0.	0.853	0.491	0.635	0.430	01111	1.70	38207.7416	02222
5997	4.306	0.854	0.496	0.659	0.419	11111	1.68	38467.0205	44444
5997	4.350	0.816	0.524	0.664	0.435	11111	1.68	38506.9125	22222
6018	4.781	1.006	0.873	0.715	0.550	11111	1.01	38131.9391	44444
6018	4.732	1.013	0.862	0.735	0.531	11111	1.00	38167.8332	12221
6018	4.764	1.019	0.884	0.000	0.000	11100	1.00	38464.0138	22200
6018	4.769	1.024	0.888	0.000	0.000	11100	1.02	38473.9478	44400
6023	4.286	-0.048	-0.310	0.087	-0.087	11111	1.03	38139.8948	44444
6023	4.256	-0.073	-0.273	-0.047	-0.077	11111	1.02	38165.8345	44444
6023	0.	-0.077	-0.262	-0.035	-0.114	01111	1.04	38207.7566	02222
6027	4.029	0.049	-0.616	0.057	0.014	11111	1.67	38202.7691	44444
6027	4.025	0.031	-0.651	0.143	0.051	11111	1.63	38506.9199	22222
6027	4.012	0.021	-0.634	0.126	0.025	11111	1.62	38518.8500	22222
6027	3.987	0.014	-0.624	0.090	0.035	11111	1.74	38547.7338	22222
6027	3.993	0.044	-0.672	0.126	0.042	11111	1.62	38872.9113	44444
6028	4.575	-0.148	-0.731	-0.053	-0.123	11111	2.05	38199.7650	44443
6028	4.592	-0.181	-0.733	-0.051	-0.188	11111	2.01	38518.8577	22222
6028	4.600	-0.168	-0.738	-0.029	-0.175	11111	2.07	38521.8897	44444
6028	4.570	-0.148	-0.737	-0.073	-0.198	11111	2.25	38546.7293	22222
6031	4.921	0.083	0.106	0.150	0.023	11111	1.37	38475.0094	44444
6031	4.935	0.091	0.111	0.088	0.013	11111	1.35	38518.8653	22222
6031	4.927	0.083	0.099	0.106	0.024	11111	1.36	38522.8398	22222
6056	2.724	1.611	1.950	1.372	1.052	11111	1.25	38148.9044	44444
6056	2.745	1.594	1.960	1.215	1.019	11111	1.30	38192.8086	44443
6056	2.765	1.581	1.944	1.238	0.990	11111	1.28	38202.7766	44444
6070	4.751	0.020	-0.004	0.129	-0.080	11111	2.05	38161.8558	44444
6070	4.795	0.020	-0.067	0.072	-0.021	11111	2.10	38199.7721	44443
6070	4.753	0.026	-0.038	0.029	-0.046	11111	2.06	38204.7435	44444
6075	3.229	0.988	0.725	0.734	0.509	11111	1.28	38148.9147	44444
6075	3.221	0.974	0.757	0.779	0.466	11111	1.26	38161.8608	44444
6075	3.227	0.992	0.738	0.641	0.487	11111	1.32	38192.8147	44443
6075				0.644	0.483	00011	1.26	38204.7492	44444
6081	4.553	0.867	0.647	0.850	0.837	11111	1.83	38204.7552	44444
6081	4.604	0.813	0.700	0.876	0.806	11111	1.84	38506.9318	22222
6081	4.560	0.828	0.655	0.889	0.860	11111	1.86	38521.8974	44444
6084	2.830	0.168	-0.663	0.125	0.101	11111	1.92	38204.7609	44444
6084	2.820	0.145	-0.716	0.177	0.115	11111	2.80	38206.5916	44444
6084	2.936	0.101	-0.706	0.241	0.115	11111	1.95	38506.9413	22222
6084	2.921	0.119	-0.681	0.216	0.137	11111	1.88	38523.8534	44444
6084	2.894	0.133	-0.722	0.209	0.120	11111	1.91	38872.9205	44444
6092	3.880	-0.151	-0.549	-0.104	-0.166	11111	1.07	37835.6746	22222
6092	3.898	-0.148	-0.570	-0.106	-0.166	11111	1.58	38082.8854	44444
6092	3.925	-0.140	-0.586	-0.056	-0.154	11111	1.04	38083.0424	44444
6092	3.907	-0.173	-0.548	-0.075	-0.142	11111	1.50	38083.8932	44444
6092	3.897	-0.168	-0.563	-0.090	-0.148	11111	1.47	38088.8825	22222
6092	3.903	-0.143	-0.563	-0.068	-0.165	11111	1.07	38088.9958	22222
6092	3.894	-0.150	-0.563	-0.090	-0.169	11111	1.59	38089.8652	22222
6092	3.929	-0.161	-0.550	-0.070	-0.189	11111	1.08	38089.9824	22222
6092	3.881	-0.159	-0.579	-0.113	-0.141	11111	1.78	38091.8391	12222
6092	3.900	-0.143	-0.592	-0.102	-0.151	11111	1.13	38112.8982	44444
6092	3.896	-0.154	-0.549	-0.140	-0.149	11111	2.19	38136.6871	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6092	3.924	-0.135	-0.591	-0.002	-0.168	11111	1.03	38136.9188	44444
6092	3.908	-0.173	-0.554	-0.181	-0.173	11111	1.68	38142.7103	44444
6092	3.936	-0.143	-0.572	-0.051	-0.184	11111	1.03	38142.9025	44444
6092	3.925	-0.198	-0.540	-0.146	-0.165	11111	1.70	38143.7051	44444
6092	3.952	-0.155	-0.577	-0.047	-0.178	11111	1.04	38143.8780	44444
6092	3.911	-0.167	-0.581	-0.091	-0.165	11111	1.48	38144.7294	22222
6092	3.909	-0.173	-0.545	-0.158	-0.117	11111	1.76	38147.6888	44444
6092	3.920	-0.199	-0.539	-0.121	-0.168	11111	1.47	38147.7218	44444
6092	3.934	-0.144	-0.603	-0.026	-0.163	11111	1.03	38147.8881	44444
6092	3.903	-0.146	-0.551	-0.140	-0.164	11111	1.16	38148.7858	44444
6092	3.912	-0.099	-0.622	0.029	-0.189	11111	1.12	38148.9692	44444
6092	3.894	-0.144	-0.548	-0.111	-0.165	11111	2.20	38161.6182	44444
6092	3.895	-0.154	-0.576	-0.070	-0.161	11111	1.03	38161.8497	44444
6092	3.894	-0.153	-0.549	-0.102	-0.171	11111	2.19	38162.6159	44444
6092	3.890	-0.152	-0.560	-0.100	-0.170	11111	1.89	38165.6279	44444
6092	3.921	-0.163	-0.573	-0.132	-0.140	11111	1.03	38165.8399	44444
6092	3.890	-0.152	-0.560	-0.100	-0.170	11111	1.93	38166.6222	44444
6092	3.889	-0.152	-0.560	-0.100	-0.160	11111	1.03	38167.8243	12221
6092	3.905	-0.173	-0.574	-0.108	-0.146	11111	1.10	38176.7337	44444
6092	3.928	-0.170	-0.571	-0.127	-0.161	11111	1.16	38178.7039	44444
6092	3.912	-0.154	-0.578	-0.049	-0.168	11111	1.15	38179.7062	44444
6092	3.919	-0.160	-0.565	-0.059	-0.169	11111	1.05	38179.7581	44444
6092	3.902	-0.175	-0.576	-0.076	-0.170	11111	1.08	38180.7366	44444
6092	3.903	-0.149	-0.561	-0.042	-0.178	11111	1.12	38180.8816	44444
6092	3.917	-0.158	-0.591	-0.100	-0.153	11111	1.06	38183.8384	44421
6092	3.906	-0.154	-0.569	-0.081	-0.160	11111	1.03	38185.7814	22221
6092	3.904	-0.164	-0.552	-0.061	-0.165	11111	1.03	38186.7836	44443
6092	3.906	-0.166	-0.564	-0.109	-0.146	11111	1.03	38187.7820	44443
6092	3.905	-0.165	-0.565	-0.096	-0.147	11111	1.03	38188.7852	44443
6092	3.910	-0.167	-0.569	-0.094	-0.141	11111	1.03	38189.7746	44443
6092	3.899	-0.145	-0.560	-0.094	-0.154	11111	1.03	38190.7683	44443
6092	3.897	-0.159	-0.562	-0.083	-0.156	11111	1.03	38192.7598	44443
6092	3.905	-0.121	-0.563	-0.112	-0.159	11111	2.00	38192.9843	44443
6092	3.908	-0.172	-0.548	-0.074	-0.154	11111	1.03	38194.7574	44443
6092	3.911	-0.113	-0.573	-0.122	-0.114	11111	1.98	38194.9776	44443
6092	3.891	-0.169	-0.566	-0.091	-0.136	11111	1.03	38199.7483	44443
6092	3.904	-0.137	-0.553	-0.111	-0.163	11111	2.18	38199.9770	44443
6092	3.881	-0.150	-0.551	-0.100	-0.163	11111	1.03	38201.7408	44421
6092	3.908	-0.162	-0.554	-0.107	-0.144	11111	1.15	38202.6424	44444
6092	3.899	-0.176	-0.552	-0.072	-0.164	11111	1.12	38203.6534	44444
6092	3.907	-0.147	-0.553	-0.241	-0.138	11111	1.77	38203.9357	44444
6092	3.884	-0.139	-0.563	-0.114	-0.165	11111	1.09	38204.6628	44444
6092	4.021	-0.293	-0.511	-0.199	-0.040	11110	1.79	38204.9349	44444
6092	3.891	-0.171	-0.561	-0.143	-0.164	11111	1.04	38205.6958	22222
6092	3.918	-0.156	-0.554	-0.083	-0.215	11111	1.10	38206.6535	44444
6092	3.900	-0.143	-0.556	-0.260	-0.112	11111	1.99	38206.9457	44444
6092	0.	-0.101	-0.597	-0.130	-0.151	01111	1.10	38207.6505	02222
6092	0.	-0.205	-0.522	-0.164	-0.266	01111	1.05	38207.7644	02222
6092	3.889	-0.159	-0.556	-0.100	-0.157	11111	1.03	38211.7152	44443
6092	3.883	-0.152	-0.568	-0.116	-0.165	11111	1.03	38216.7085	44444
6092	3.815	-0.205	-0.616	-0.311	-0.192	11111	2.79	38222.9417	44443
6092	3.895	-0.164	-0.568	-0.163	-0.139	11111	1.03	38223.6825	44444
6092	3.992	-0.159	-0.585	-0.028	-0.165	11111	2.34	38223.9200	44444
6092	3.894	-0.165	-0.585	-0.092	-0.166	11111	1.03	38224.6878	44444
6092	3.895	-0.139	-0.555	-0.119	-0.154	11111	2.17	38224.9079	44444
6092	3.883	-0.156	-0.547	-0.127	-0.163	11111	2.28	38225.9115	44444
6092	3.890	-0.152	-0.560	-0.100	-0.170	11111	1.04	38226.7027	44444
6092	3.926	-0.146	-0.565	-0.100	-0.170	11111	2.35	38227.9097	44444
6092	3.893	-0.150	-0.551	-0.101	-0.173	11111	2.37	38228.9076	44444
6092	3.747	-0.177	-0.477	-0.171	-0.179	11111	1.98	38291.7125	34421
6092	3.894	-0.157	-0.536	-0.103	-0.159	11111	2.09	38294.7119	44444
6092	3.900	-0.163	-0.575	-0.069	-0.151	11111	2.42	38306.6972	44444
6092	3.898	-0.173	-0.548	-0.054	-0.146	11111	2.16	38310.6723	44444
6092	3.895	-0.140	-0.534	-0.089	-0.125	11111	2.27	38311.6760	44444
6092	3.912	-0.131	-0.566	-0.087	-0.157	11111	2.02	38377.0396	44444
6092	3.831	-0.226	-0.656	-0.112	-0.180	11111	3.16	38408.9031	44444
6092	3.943	-0.189	-0.504	-0.018	-0.159	11111	1.35	38416.0084	44444
6092	3.916	-0.164	-0.570	-0.050	-0.143	11111	1.13	38421.0512	44444
6092	3.926	-0.155	-0.569	-0.058	-0.159	11111	1.18	38425.0244	44444
6092	3.937	-0.137	-0.586	-0.045	-0.134	11111	2.21	38443.8449	44444
6092	3.947	-0.119	-0.574	-0.030	-0.147	11111	2.23	38449.8275	44444
6092	3.932	-0.121	-0.567	-0.023	-0.134	11111	2.18	38450.8278	44444
6092	3.917	-0.105	-0.586	-0.013	-0.147	11111	2.22	38451.8229	44444
6092	3.875	-0.125	-0.540	0.000	0.000	11100	2.30	38459.7964	44400
6092	3.886	-0.144	-0.562	0.000	0.000	11100	1.03	38464.0306	22200
6092	3.893	-0.161	-0.510	0.000	0.000	11100	2.22	38464.7871	44400
6092	3.925	-0.144	-0.551	0.000	0.000	11100	1.03	38473.9792	44400
6092	3.929	-0.158	-0.542	-0.041	-0.173	11111	2.01	38475.7702	44444
6092	3.913	-0.147	-0.537	0.000	0.000	11100	1.03	38475.9778	44400
6092	3.948	-0.148	-0.556	0.000	0.000	11100	1.04	38476.0158	44400
6092	3.892	-0.137	-0.592	-0.067	-0.147	11111	2.64	38480.7238	44444
6092	3.919	-0.133	-0.558	-0.076	-0.168	11111	1.03	38480.9819	44444
6092	3.888	-0.159	-0.551	-0.072	-0.159	11111	1.04	38497.9558	22222
6092	3.819	-0.155	-0.562	-0.073	-0.168	11111	1.03	38508.9069	22222
6092	3.960	-0.210	-0.494	-0.040	-0.148	11111	2.10	38509.6717	44444
6092	3.888	-0.156	-0.559	-0.138	-0.136	11111	1.03	38512.8766	22222
6092	3.890	-0.157	-0.549	-0.064	-0.167	11111	1.22	38513.7683	22222
6092	3.914	-0.151	-0.559	-0.083	-0.167	11111	1.30	38515.7453	44444
6092	3.891	-0.165	-0.556	-0.105	-0.157	11111	1.03	38515.8953	44444
6092	3.915	-0.151	-0.558	-0.078	-0.176	11111	1.21	38515.9952	44444
6092	3.906	-0.160	-0.545	-0.062	-0.147	11111	1.03	38517.8856	44444
6092	3.897	-0.150	-0.564	-0.096	-0.153	11111	1.10	38518.9446	22222
6092	3.901	-0.137	-0.553	-0.064	-0.177	11111	1.05	38519.9081	44444
6092	3.874	-0.144	-0.562	-0.098	-0.173	11111	1.03	38521.8643	44444
6092	3.877	-0.146	-0.592	-0.058	-0.161	11111	1.03	38522.8677	22222
6092	3.890	-0.162	-0.542	-0.097	-0.163	11111	1.16	38525.9508	44444
6092	3.880	-0.130	-0.574	-0.083	-0.171	11111	1.07	38526.9041	22222
6092	3.941	-0.143	-0.555	0.000	0.000	11100	1.19	38526.9589	22200
6092	3.893	-0.152	-0.561	0.000	0.000	11100	1.04	38527.8278	22200
6092	3.907	-0.159	-0.545	0.000	0.000	11100	1.08	38527.9119	22200
6092	3.900	-0.160	-0.570	0.000	0.000	11100	1.09	38528.9141	44400
6092	3.892	-0.169	-0.582	-0.073	-0.161	11111	1.03	38532.8330	22222
6092	3.844	-0.151	-0.555	-0.114	-0.166	11111	1.32	38532.9737	22222
6092	3.885	-0.152	-0.570	-0.098	-0.170	11111	1.03	38533.8253	44444
6092	0.000	0.000	0.000	-0.070	-0.170	00011	1.36	38533.9796	44444
6092	3.891	-0.147	-0.567	-0.082	-0.158	11111	1.03	38534.8153	44444
6092	3.934	-0.143	-0.549	0.721	-0.162	11101	1.20	38534.9412	44444
6092	3.919	-0.141	-0.580	-0.099	-0.149	11111	1.03	38535.8141	22222
6092	3.897	-0.159	-0.557	-0.085	-0.152	11111	1.18	38535.9315	22222
6092	3.865	-0.160	-0.562	-0.088	-0.177	11111	1.29	38546.6610	22222

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6092	3.882	-0.145	-0.571	-0.093	-0.164	11111	1.03	38547.7776	22222
6092	3.959	-0.129	-0.598	0.000	0.000	11100	1.05	38552.7452	22200
6092	3.859	-0.136	-0.574	0.000	0.000	11100	1.05	38552.8212	22200
6092	3.874	-0.147	-0.556	-0.092	-0.154	11111	1.08	38561.8171	22222
6092	3.893	-0.163	-0.573	-0.070	-0.155	11111	1.07	38563.6961	22222
6092	3.923	-0.152	-0.566	-0.062	-0.163	11111	1.22	38564.6296	22222
6092	3.915	-0.161	-0.568	-0.081	-0.141	11111	1.04	38564.7164	22222
6092	3.895	-0.147	-0.571	-0.090	-0.165	11111	1.14	38565.6541	22222
6092	3.905	-0.150	-0.578	-0.074	-0.150	11111	1.03	38565.7253	22222
6092	3.879	-0.166	-0.572	-0.095	-0.143	11111	1.17	38566.6387	22222
6092	3.896	-0.145	-0.584	-0.080	-0.162	11111	1.03	38566.7326	22222
6092	3.874	-0.160	-0.555	-0.079	-0.168	11111	1.17	38567.6364	22222
6092	3.920	-0.165	-0.558	-0.058	-0.161	11111	1.06	38567.7888	22222
6092	3.906	-0.149	-0.569	-0.072	-0.149	11111	1.12	38568.6522	22222
6092	3.870	-0.144	-0.571	-0.091	-0.153	11111	1.03	38568.7213	22222
6092	3.928	-0.124	-0.566	-0.036	-0.159	11111	1.14	38577.8033	22222
6092	3.866	-0.179	-0.573	-0.108	-0.157	11111	1.06	38579.7505	22222
6092	3.888	-0.154	-0.567	-0.095	-0.163	11111	2.21	38639.7743	44444
6092	3.873	-0.143	-0.559	-0.100	-0.174	11111	2.09	38784.9185	44444
6092	3.906	-0.136	-0.554	-0.074	-0.171	11111	1.08	38792.0623	22221
6092	3.905	-0.144	-0.564	0.000	0.000	11100	1.46	38809.9108	44400
6092	3.907	-0.134	-0.567	-0.053	-0.166	11111	1.03	38827.0242	44444
6092	3.875	-0.139	-0.568	-0.084	-0.178	11111	1.03	38845.9669	44444
6092	3.909	-0.140	-0.557	-0.068	-0.161	11111	1.03	38846.9769	44444
6092	3.906	-0.137	-0.577	-0.053	-0.175	11111	1.04	38849.9409	44444
6092	3.908	-0.161	-0.560	0.000	0.000	11100	1.03	38864.9104	22200
6092	3.879	-0.154	-0.559	0.000	0.000	11100	1.03	38878.8693	22200
6092	3.903	-0.145	-0.568	0.000	0.000	11100	1.05	38878.9266	22200
6092	3.899	-0.161	-0.542	0.000	0.000	11100	1.03	38900.8094	44400
6092	3.917	-0.177	-0.567	-0.042	-0.156	11111	1.06	38905.8635	22222
6092	3.925	-0.134	-0.580	-0.060	-0.162	11111	1.04	38912.8160	44444
6092	3.901	-0.142	-0.563	-0.050	-0.176	11111	1.05	38936.6940	44444
6092	3.874	-0.135	-0.584	-0.072	-0.178	11111	1.04	38938.7448	44444
6092	3.881	-0.145	-0.561	-0.067	-0.166	11111	1.03	38939.7289	44444
6092	3.918	-0.171	-0.578	-0.021	-0.156	11111	1.04	38940.7378	44444
6092	3.908	-0.156	-0.553	0.000	0.000	11100	2.15	39034.6897	44400
6092	3.888	-0.155	-0.588	-0.069	-0.148	11111	2.45	39042.6832	44444
6093	4.842	0.357	-0.030	0.372	0.163	11111	1.19	38147.9156	44444
6093	4.819	0.344	0.034	0.294	0.148	11111	1.17	38518.8725	22222
6093	4.819	0.312	0.040	0.314	0.157	11111	1.17	38522.8521	22222
6093	4.783	0.345	0.037	0.254	0.140	11111	1.25	38546.7409	22222
6095	3.771	0.269	0.181	0.299	0.114	11111	1.04	38109.0205	44444
6095	3.787	0.260	0.189	0.278	0.164	11111	1.03	38131.9453	44444
6095	3.733	0.291	0.250	0.000	0.000	11100	1.03	38464.0175	22200
6095	3.772	0.280	0.223	0.000	0.000	11100	1.06	38473.9518	44400
6095	3.746	0.259	0.214	0.299	0.153	11111	1.04	38475.0158	44444
6103	4.860	0.992	0.793	0.773	0.460	11111	1.00	38109.0139	44444
6103	4.835	0.989	0.822	0.664	0.484	11111	1.00	38167.8413	12221
6103	4.863	0.988	0.772	0.767	0.464	11111	1.00	38185.7873	22221
6103	4.830	0.906	0.801	0.720	0.420	11111	1.00	38206.7377	44444
6104	4.501	1.026	0.830	0.790	0.495	11111	1.64	38186.7946	44443
6104	4.488	1.039	0.839	0.759	0.518	11111	1.64	38211.7241	44443
6112	4.631	0.232	-0.529	0.338	0.353	11111	3.89	38285.6614	23333
6112	4.627	0.217	-0.564	0.366	0.293	11111	2.26	38288.5966	12221
6117	4.593	-0.013	-0.100	0.099	-0.032	11111	1.05	38136.9253	44444
6117	4.589	0.007	-0.044	0.076	-0.076	11111	1.06	38161.8733	44444
6117	4.569	-0.075	-0.042	0.077	-0.067	11111	1.06	38206.7455	44444
6117	4.617	0.003	-0.008	0.000	0.000	11100	1.05	38464.0215	22200
6118	0.	0.367	0.	0.090	-0.040	01000	1.59	38206.7509	44444
6118	0.	0.	0.	0.090	0.216	00001	1.61	38206.7579	44444
6118	4.441	0.256	-0.747	0.477	0.232	11111	1.58	38518.8805	22222
6118	4.418	0.270	-0.769	0.453	0.230	11111	1.63	38521.9056	44444
6118	4.438	0.241	-0.780	0.462	0.249	11111	1.58	38522.8767	22222
6129	4.676	0.180	-0.005	0.224	0.065	11111	1.36	38138.9536	33331
6129	4.644	0.086	0.053	0.116	0.092	11111	1.35	38206.7644	44444
6129	4.610	0.170	0.069	0.158	0.069	11111	1.33	38522.8839	22222
6129	4.619	0.190	0.088	0.151	0.093	11111	1.32	38523.8630	44444
6129	4.618	0.176	0.081	0.128	0.059	11111	1.39	38546.7508	22222
6132	2.755	0.891	0.746	0.631	0.494	11111	1.17	38131.9823	44444
6132	2.727	0.925	0.696	0.746	0.463	11101	1.15	38161.8672	44444
6132	2.733	0.907	0.693	0.613	0.450	11111	1.15	38185.8066	22221
6132	2.724	0.899	0.695	0.583	0.447	11111	1.15	38203.7441	44444
6134	0.827	1.873	1.405	1.481	1.237	11111	1.92	38199.7564	44443
6134	0.837	1.839	1.390	1.558	1.198	11111	1.95	38201.7247	44421
6134	0.813	1.861	1.329	1.596	1.164	11111	2.47	38222.7780	44443
6134	0.918	1.810	1.312	6.206	0.000	11100	1.92	38523.8688	44444
6134	0.000	0.000	0.000	0.000	1.293	00001	1.93	38523.8736	44444
6134	1.043	1.760	1.313	1.580	1.241	11111	2.01	38546.7619	22222
6141	4.787	-0.081	-0.752	-0.064	-0.141	11111	1.85	38153.8831	44444
6141	4.782	-0.064	-0.827	-0.060	-0.132	11111	1.94	38206.7723	44444
6146	5.034	1.540	1.157	2.521	2.317	11111	1.02	38139.9017	44444
6146	4.984	1.516	1.152		2.129	11101	1.02	38188.7916	44443
6146	5.008	1.520	1.197	2.521	2.226	11111	1.02	38203.7503	44444
6147	4.245	0.928	0.695	0.671	0.459	11111	1.53	38165.8605	44444
6147	4.296	0.920	0.710	0.631	0.420	11111	1.53	38201.7634	44421
6148	2.788	0.935	0.680	0.680	0.453	11111	1.02	38138.9307	33331
6148	2.751	0.936	0.693	0.662	0.472	11111	1.03	38165.8726	44444
6148	2.772	0.934	0.703	0.636	0.480	11111	1.04	38199.7867	44443
6148	2.770	0.965	0.707	0.577	0.483	11111	1.02	38203.7624	44444
6148	2.766	0.931	0.680	0.642	0.469	11111	1.06	38224.7347	44444
6149	3.874	-0.029	0.020	0.161	-0.027	11101	1.17	38138.9377	33331
6149	3.806	0.019	-0.002	0.009	-0.013	11111	1.17	38165.8665	44444
6149	3.812	0.038	0.017	-0.019	0.016	11111	1.17	38199.7801	44443
6149	3.836	0.029	0.012	-0.004	-0.034	11111	1.16	38203.7566	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6153	4.469	0.123	0.102	0.111	-0.397	11110	1.71	38201.7719	44421
6153	4.441	0.102	0.133	0.150	0.024	11111	1.70	38523.8785	44444
6153	4.451	0.115	0.141	0.121	0.028	11111	1.71	38543.7896	22222
6159	4.890	1.470	1.830	1.249	0.882	11111	1.08	38142.9316	44444
6159	4.838	1.481	1.833	1.182	0.858	11111	1.08	38522.8918	22222
6159	4.826	1.490	0.000	1.172	0.839	11011	1.07	38544.8128	44444
6161	5.009	-0.048	-0.127	0.064	-0.017	11111	1.25	38148.9254	44444
6161	5.013	-0.069	-0.087	0.045	-0.036	11111	1.24	38543.8161	22222
6161	4.896	-0.045	-0.085	0.136	-0.255	11111	1.25	38546.7762	22222
6165	2.826	-0.242	-1.024	-0.094	-0.278	11111	2.06	38203.7689	44444
6165	2.800	-0.231	-1.016	-0.142	-0.241	11111	2.12	38521.9138	44444
6165	2.809	-0.269	-1.001	-0.103	-0.237	11111	2.04	38523.8850	44444
6168	4.213	-0.008	-0.109	0.051	0.016	11111	1.02	38136.9323	44444
6168	4.221	-0.035	-0.099	0.014	-0.012	11111	1.03	38165.8788	44444
6168	4.158	0.002	-0.091	0.011	-0.018	11111	1.02	38508.9156	22222
6175	2.580	0.027	-0.867	0.226	-0.025	11111	1.44	37796.7825	22222
6175	2.555	0.014	-0.866	0.141	-0.073	11111	1.36	37808.7766	22222
6175	2.556	0.021	-0.861	0.188	-0.062	11111	1.39	37836.6863	22222
6175	2.565	0.037	-0.841	0.031	-0.041	11111	1.39	38203.7747	44444
6175	2.599	0.044	-0.807	0.026	-0.013	11111	1.66	38222.7857	44443
6212	2.778	0.692	0.243	0.442	0.364	11111	1.01	38136.9540	44444
6212	2.791	0.654	0.186	0.529	0.320	11111	1.00	38508.9227	22222
6212	2.829	0.661	0.188	0.541	0.319	11111	1.16	38528.7603	44444
6212	2.822	0.642	0.192	0.521	0.299	11111	1.00	38544.8244	44444
6212	2.854	0.550	0.077	0.689	0.332	11111	1.00	38546.8191	22222
6220	3.515	0.953	0.585	0.725	0.487	11111	1.04	38131.9951	44444
6220	3.495	0.899	0.635	0.694	0.481	11111	1.01	38187.8018	44443
6220	3.494	0.922	0.590	0.578	0.490	11111	1.06	38216.7796	44444
6237	4.872	0.409	-0.079	0.362	0.260	11111	1.11	38148.9354	44444
6237	4.836	0.387	-0.046	0.383	0.178	11111	1.10	38201.7795	44421
6237	4.813	0.366	-0.053	0.296	0.210	11111	1.17	38223.7797	44444
6243	4.624	0.470	0.071	0.407	0.261	11111	1.41	38154.9259	44444
6243	4.659	0.520	0.054	0.459	0.261	11111	1.37	38211.7325	44443
6243	4.698	0.433	0.081	0.471	0.240	11111	1.38	38543.8025	22222
6243	4.583	0.431	0.415	0.618	0.245	11111	1.38	38546.8306	22222
6254	4.837	0.077	-0.005	0.138	0.056	11111	1.03	38152.8936	44444
6254	4.813	0.083	0.048	0.049	-0.006	11111	1.04	38199.7930	44443
6254	4.824	0.088	0.007	0.105	-0.007	11111	1.04	38201.7945	44421
6271	3.586	1.361	1.609	1.124	0.675	11111	3.74	38131.9538	44444
6281	4.381	-0.094	-0.320	-0.070	-0.108	11111	1.09	38201.7872	44421
6281	4.388	-0.066	-0.318	-0.103	-0.066	11111	1.24	38222.7933	44443
6299	3.183	1.167	1.150	0.868	0.537	11111	1.08	38475.0221	44444
6299	3.196	1.143	1.167	0.843	0.544	11111	1.08	38508.9298	22222
6299	3.225	1.176	1.158	0.809	0.538	11111	1.08	38543.8281	22222
6315	4.905	0.480	-0.034	0.453	0.264	11111	1.19	38508.9381	22222
6315	4.928	0.462	-0.010	0.450	0.279	11111	1.19	38543.8511	22222
6322		0.905	0.541			01100	1.55	38148.9432	44444
6322	4.252	0.928	0.523	0.791	0.487	11111	1.55	38148.9503	44444
6322	4.217	0.881	0.546	0.742	0.480	11111	1.55	38165.8913	44444
6322	4.244	0.903	0.550	0.669	0.463	11111	1.54	38187.8135	44443
6322	4.195	0.876	0.575	0.610	0.435	11111	1.56	38201.8148	44421
6324	3.921	-0.019	-0.115	0.061	-0.052	11111	1.00	38136.9400	44444
6324	3.928	-0.019	-0.106	-0.037	-0.025	11111	1.04	38199.8241	44443
6324	3.904	-0.004	-0.090	-0.052	-0.047	11111	1.04	38201.8218	44421
6337	4.975	1.542	1.916	1.424	1.245	11111	2.06	38339.5719	44444
6337	4.905	1.566	1.988	1.341	1.234	11111	2.66	38340.5925	11111
6337	5.002	1.604	1.921	1.414	1.231	11111	1.05	38517.8957	44444
6337	4.983	1.602	1.930	1.460	1.193	11111	1.05	38544.8359	44444
6337	4.975	1.606	1.902	1.494	1.197	11111	1.12	38547.7620	22222
6355	4.940	0.106	-0.005	0.195	-0.007	11111	1.07	38138.9612	33331
6355	4.895	0.134	0.063	0.078	0.023	11111	1.07	38183.8453	44421
6355	4.881	0.130	0.105	0.075	0.063	11111	1.10	38225.7522	44444
6378	2.409	0.050	0.067	-0.058	0.030	11111	1.52	38183.8518	44421
6378	2.410	0.041	0.100	0.069	0.014	11111	1.50	38517.9078	44444
6378	2.426	0.049	0.113	0.089	-0.024	11111	1.52	38519.9300	44444
6378	2.398	-0.074	0.413	-0.065	-0.085	11111	1.50	38546.8463	22222
6396	3.174	-0.129	-0.422	-0.059	-0.120	11111	1.20	38165.8847	44444
6396	3.167	-0.100	-0.454	-0.096	-0.117	11111	1.20	38185.8130	22221
6396	3.176	-0.111	-0.408	-0.030	-0.118	11111	1.40	38306.6249	44444
6406	2.977	1.545	1.064	2.121	2.168	11111	1.09	38137.0031	44444
6406	3.037	1.475	1.022	2.131	1.997	11111	1.07	38199.8154	44443
6406		1.468				01000	1.09	38225.7578	44444
6406	3.077	1.417	1.001	2.121	2.098	11111	1.41	38315.5933	44444
6406	3.079	1.416	0.971	1.970	2.260	11111	1.40	38317.5860	44444
6406	3.144	1.390	0.993	2.100	2.244	11111	1.44	38320.5832	24211
6406	3.059	1.436	0.999	2.164	2.044	11111	1.14	38579.8115	22222
6410	3.152	0.014	0.088	0.111	-0.013	11111	1.01	38138.9680	33331
6410	3.105	0.103	0.082	0.017	0.070	11111	1.01	38187.8193	44443
6410	3.116	0.104	0.065	0.029	0.020	11111	1.02	38205.7960	22222
6415	4.714	1.184	1.121	0.823	0.622	11111	1.18	38152.9165	44444
6415	4.728	1.118	1.093	0.755	0.570	11111	1.28	38209.8209	44433
6415	4.729	1.149	1.113	0.829	0.582	11111	1.85	38306.6332	44444
6418	3.155	1.461	1.628	0.976	0.758	11111	1.00	38136.9471	44444
6418	3.161	1.431	1.655	0.976	0.686	11111	1.02	38183.8580	44421
6418	3.165	1.425	1.675	0.896	0.722	11111	1.11	38222.8087	44443
6418	3.174	1.444	1.665	0.970	0.717	11111	1.02	38226.7485	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6431	4.820	-0.134	-0.788	-0.041	-0.198	11111	1.00	38136.9607	44444
6431	4.743	-0.169	-0.738	-0.077	-0.200	11111	1.01	38161.9087	44444
6431	4.787	-0.155	-0.748	-0.029	-0.180	11111	1.04	38201.8308	44421
6431	4.956	-0.156	-0.743	-0.104	-0.132	11111	1.13	38222.8155	44443
6436	4.690	0.031	-0.061	0.156	-0.007	11111	1.03	38139.9914	44444
6436	4.627	0.045	-0.022	0.057	-0.004	11111	1.00	38186.8204	44443
6436	4.660	0.068	0.008	0.038	0.018	11111	1.15	38222.8225	44443
6445	4.367	0.420	-0.066	0.384	0.235	11111	1.68	38185.8205	22221
6445	4.391	0.397	-0.058	0.359	0.197	11111	1.84	38201.8404	44421
6446		0.040				01000	1.56	38201.8451	44421
6446	4.295	0.039	0.005	0.022	-0.015	11111	1.42	38203.7872	44444
6446	4.300	0.032	0.000	0.073	0.013	11011	1.42	38475.0301	44444
6446	4.343	0.025	0.062	0.073	0.008	11111	1.42	38506.9510	22222
6453	3.241	-0.225	-0.853	-0.104	-0.196	11111	1.85	38185.8269	22221
6453	3.286	-0.236	-0.841	-0.074	-0.203	11111	1.86	38506.9585	22222
6453	3.253	-0.207	-0.851	-0.119	-0.229	11111	1.88	38519.9366	44444
6484	4.160	0.012	-0.048	-0.019	-0.037	11111	1.00	38204.7677	44444
6484	4.150	0.007	-0.080	0.070	-0.011	11111	1.01	38185.8422	22221
6484	4.193	-0.013	-0.038	0.022	0.017	11111	1.03	38132.0165	44444
6486	4.161	0.296	0.115	0.250	0.143	11111	1.81	38187.8260	44443
6486	4.126	0.306	0.142		0.104	11101	1.82	38204.7903	44444
6486	4.201	0.251	0.116	0.281	0.150	11111	1.82	38506.9658	22222
6486	4.151	0.287	0.101	0.330	0.094	11111	1.86	38519.9453	44444
6492	4.270	0.395	0.049	0.361	0.191	11111	2.14	38188.8286	44443
6492	4.253	0.422	0.081	0.360	0.144	11111	2.25	38519.9551	44444
6492	4.281	0.396	0.093	0.363	0.194	11111	2.15	38521.9214	44444
6493	4.576	0.395	-0.058	0.402	0.220	11111	1.27	38147.9571	44444
6493	4.514	0.452	-0.092	0.393	0.201	11111	1.26	38185.8351	22221
6493	4.529	0.376	0.000	0.344	0.196	11011	1.27	38481.0009	44444
6498	4.324	1.484	1.562	1.175	0.741	11111	1.14	38138.9743	33331
6498			1.547		0.795	00101	1.14	38207.7737	02222
6498	4.338	1.504	1.595	1.079	0.764	11111	1.13	38508.9458	22222
6498	4.323	1.528	1.607	1.032	0.787	11111	1.40	38637.6946	44444
6508	2.661	-0.240	-0.788	-0.094	-0.203	11111	2.91	38132.0015	44444
6519	4.818	0.018	-0.109	0.179	0.007	11111	1.80	38203.7811	44444
6519	4.806	0.003	-0.031	0.073	0.022	11111	1.80	38544.8475	44444
6519	4.814	-0.005	-0.038	0.070	0.012	11111	1.88	38547.8021	22222
6526	4.377	1.462	1.656	0.988	0.773	11111	1.01	38136.9686	44444
6526	4.422	1.414	1.696	1.022	0.793	11111	1.13	38225.8117	44444
6526	4.440	1.443	1.690	0.000	0.000	11100	1.07	38473.9828	44400
6536	2.743	1.044	0.626	0.693	0.517	11111	1.07	38152.9002	44444
6536	2.810	0.988	0.620	0.673	0.452	11111	1.07	38185.8490	22221
6536	2.774	0.952	0.658	0.671	0.466	11111	1.07	38224.7427	44444
6554	4.896	0.289	0.046	0.260	0.182	11111	1.08	38152.9288	44444
6554	4.909	0.238	0.001	0.203	0.132	11111	1.09	38165.8982	44444
6554	4.925	0.259	-0.020	0.225	0.116	11111	1.09	38183.8666	44421
6554	4.831	0.297	0.036	0.260	0.111	11111	1.09	38224.7539	44444
6555	4.919	0.247	0.008	0.253	0.165	11111	1.09	38152.9365	44444
6555	4.879	0.278	0.268	0.240	0.124	11011	1.09	38165.9032	44444
6555	4.893	0.297	0.023	0.241	0.126	11111	1.10	38183.8725	44421
6555	4.914	0.233	0.017	0.230	0.096	11111	1.09	38203.7949	44444
6555	4.862	0.263	-0.009	0.244	0.103	11111	1.10	38224.7603	44444
6556	2.080	0.155	0.120	0.354	0.196	11100	1.12	37563.5802	22222
6556	2.123	0.148	0.122	0.163	0.076	11111	1.06	38131.9885	44444
6556	2.091	0.024	0.198	0.154	0.068	11111	1.06	38136.9756	44444
6556	2.117	0.145	0.096	0.181	0.062	11111	1.07	38147.9244	44444
6556	2.068	0.172	0.127	0.189	0.103	11111	2.25	38186.6486	44443
6556	2.070	0.162	0.116	0.132	0.090	11111	1.06	38187.8320	44443
6556	2.042	0.144	0.106	0.048	0.096	11111	1.12	38223.7886	44444
6556	2.044	0.134	0.103	0.116	0.092	11111	1.22	38269.6949	44443
6556	2.088	0.142	0.135	0.144	0.088	11111	1.17	38270.6773	44443
6556	1.997	0.097	0.089	0.090	-0.040	11100	1.51	38294.6737	44444
6561	3.471	0.207	0.079	0.157	0.123	11111	2.48	38298.6623	22222
6561	0.000	0.000	0.147	0.000	0.000	00100	1.49	38544.8575	44444
6561	3.548	0.257	0.131	0.220	0.134	11111	1.60	38553.7753	44444
6567	4.636	0.113	-0.177	0.175	0.140	11111	2.08	38306.6414	44444
6567	4.601	0.130	-0.174	0.162	0.109	11111	1.32	38544.8662	44444
6567	4.647	0.099	-0.200	0.192	0.110	11111	1.38	38553.7827	44444
6580	2.404	-0.211	-0.881	-0.032	-0.204	11111	3.16	38132.0082	44444
6581	4.232	0.076	0.108	0.092	0.015	11111	1.42	38517.9250	44444
6581	0.000	0.000	0.106	0.000	0.004	00101	1.43	38544.8753	44444
6581	4.242	0.089	0.109	0.069	0.034	11111	1.48	38553.7913	44444
6588	3.819	-0.170	-0.728	-0.014	-0.162	11111	1.05	38152.9707	44444
6588	3.816	-0.165	-0.696	-0.125	-0.172	11111	1.03	38187.8560	44443
6588	3.774	-0.190	-0.683	-0.166	-0.185	11111	1.06	38203.8440	44444
6588	3.801	-0.195	-0.686	-0.085	-0.163	11111	1.04	38225.7637	44444
6595	4.867	0.460	-0.038	0.403	0.253	11111	1.73	38544.8831	44444
6595	4.870	0.469	-0.011	0.405	0.220	11111	1.72	38556.8453	44444
6595	4.871	0.491	-0.059	0.427	0.252	11111	1.82	38558.7693	44444
6596	4.815	0.443	-0.080	0.436	0.201	11111	1.24	38185.8559	22221
6596	4.795	0.432	0.035		0.220	11101	1.28	38203.8523	44444
6596	4.774	0.416	0.027	0.383	0.251	11111	1.26	38225.7706	44444
6603	2.731	1.203	1.240	0.765	0.625	11111	1.13	38136.9880	44444
6603	2.765	1.167	1.233	0.860	0.577	11111	1.17	38176.8251	44444
6603	2.762	1.174	1.232	0.832	0.562	11111	1.24	38180.7852	44444
6603	2.781	1.160	1.258	0.854	0.565	11111	2.53	38186.6581	44443

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6603	2.773	1.171	1.228	0.775	0.551	11111	1.13	38186.8432	44443
6603	2.776	1.143	1.243	0.792	0.588	11111	2.49	38187.6567	44443
6603	2.745	1.175	1.239	0.778	0.574	11111	1.13	38187.8377	44443
6603	2.764	1.148	1.240	0.810	0.571	11111	2.37	38189.6556	44443
6603	2.758	1.185	1.238	0.744	0.563	11111	1.17	38189.8751	44443
6603	2.774	1.154	1.235	0.839	0.583	11111	2.27	38190.6566	44443
6603	2.756	1.181	1.235	0.777	0.556	11111	1.13	38190.8255	44443
6603	2.763	1.161	1.233	0.792	0.584	11111	2.33	38192.6490	44443
6603	2.760	1.163	1.253	0.778	0.548	11111	1.13	38192.8209	44443
6603	2.756	1.154	1.249	0.806	0.564	11111	2.17	38194.6502	44443
6603	0.	1.176	1.240	0.764	0.539	01111	1.27	38194.8954	44443
6603	2.749	1.175	1.237	0.813	0.591	11111	2.09	38199.6403	44443
6603	2.767	1.158	1.257	0.804	0.565	11111	1.13	38199.7997	44443
6603	2.781	1.130	1.249	0.795	0.617	11111	1.78	38201.6539	44421
6603	2.764	1.166	1.245	0.822	0.545	11111	1.13	38201.8010	44421
6603	2.763	1.183	1.239	0.090	-0.040	11100	2.19	38201.9665	44421
6603	2.791	1.156	1.281	0.769	0.550	11111	1.15	38202.8283	44444
6603	2.782	1.159	1.247	0.775	0.544	11111	1.14	38203.8087	44444
6603	2.752	1.144	1.267	0.815	0.557	11111	1.84	38204.6414	44444
6603	2.797	1.161	1.247	0.796	0.547	11111	1.13	38204.7807	44444
6603	2.766	1.178	1.259	0.793	0.563	11111	1.13	38205.7880	22222
6603	2.798	1.134	1.244	0.810	0.541	11111	1.13	38206.7817	44444
6603	0.	1.169	1.256	0.786	0.597	01111	1.13	38207.7816	02222
6603	2.722	1.222	1.196	0.872	0.535	11111	1.14	38209.7942	44433
6603	2.777	1.185	1.237	0.759	-0.040	11110	1.13	38222.7383	44443
6603	2.751	1.165	1.252	0.787	0.589	11111	1.20	38223.7955	44444
6603	2.735	1.188	1.231	0.776	0.601	11111	1.32	38269.7017	44443
6603	2.742	1.191	1.265	0.802	0.591	11111	1.22	38270.6713	44443
6603	0.000	1.169	1.247	0.090	-0.040	01100	1.18	38293.5948	44444
6603	2.751	1.182	1.226	0.809	0.601	11111	2.82	38293.7365	44444
6603	2.728	1.173	1.262	0.767	0.575	11111	1.31	38305.5998	44444
6603	2.778	1.156	1.211	0.835	0.567	11111	5.00	38305.7348	44444
6603	2.782	1.195	1.212	0.873	0.567	11111	2.21	38438.9796	44444
6603	2.764	1.200	1.224	0.852	0.586	11111	2.14	38443.9689	44444
6603	2.783	1.176	1.228	0.868	0.581	11111	2.33	38446.9527	44444
6603	2.758	1.195	1.202	0.846	0.563	11111	2.25	38449.9475	44444
6603	2.750	1.178	1.235	0.855	0.566	11111	2.14	38469.8979	44444
6603	2.747	1.166	1.209	0.824	0.580	11111	1.99	38474.8924	44444
6603	2.801	1.163	1.248	0.000	0.000	11100	2.07	38475.8848	44400
6603	2.796	1.166	1.252	0.000	0.000	11100	1.15	38476.0194	44400
6603	2.730	1.180	1.185	0.848	0.560	11111	2.32	38480.8601	44444
6603	2.771	1.164	1.244	0.847	0.547	11111	1.13	38506.9738	22222
6603	2.756	1.169	1.245	0.832	0.561	11111	1.13	38510.9625	22222
6603	2.755	1.159	1.247	0.863	0.558	11111	1.13	38511.9374	44444
6603	2.784	1.172	1.252	0.837	0.564	11111	1.13	38515.9485	44444
6603	2.775	1.166	1.254	0.811	0.574	11111	2.35	38517.7578	44444
6603	2.766	1.147	1.260	0.835	0.556	11111	1.13	38517.9359	44444
6603	2.776	1.185	1.243	0.859	0.573	11111	1.14	38518.9524	22222
6603	2.787	1.171	1.234	0.814	0.547	11111	1.21	38522.9774	22222
6603	2.727	1.173	1.246	0.729	0.577	11111	2.15	38528.7366	44444
6603	2.783	1.152	1.238	0.858	0.572	11111	1.14	38528.9193	44444
6603	2.761	1.181	1.225	0.812	0.566	11111	1.13	38532.8986	22222
6603	2.784	1.179	1.247	0.850	0.557	11111	1.13	38533.8902	44444
6603	2.778	1.181	1.251	0.817	0.561	11111	1.13	38534.8782	44444
6603	2.745	1.154	1.229	0.817	0.000	11110	1.13	38535.8964	22222
6603	2.773	1.174	1.258	0.835	0.561	11111	1.31	38535.9696	22222
6603	2.743	1.171	1.229	0.780	0.548	11111	1.13	38536.8815	22221
6603	2.797	1.149	1.251	0.840	0.575	11111	1.24	38536.9503	22221
6603	2.777	1.144	1.254	0.812	0.562	11111	1.70	38545.7185	22222
6603	2.770	1.169	1.226	0.825	0.573	11111	1.14	38545.8337	22222
6603	2.769	1.160	1.240	0.828	0.564	11111	1.27	38553.9107	44444
6603	2.776	1.169	1.242	0.839	0.555	11111	1.39	38557.9250	44444
6603	2.780	1.163	1.244	0.833	0.570	11111	1.13	38560.8186	22222
6603	2.782	1.168	1.242	0.851	0.566	11111	1.13	38561.8242	22222
6603	2.789	1.167	1.241	0.829	0.554	11111	1.23	38562.8745	22222
6603	2.756	1.183	1.224	0.813	0.565	11111	1.14	38563.7865	22222
6603	2.757	1.170	1.241	0.803	0.562	11111	1.14	38564.7831	22222
6603	2.753	1.187	1.229	0.809	0.565	11111	1.14	38565.7870	22222
6603	2.784	1.166	1.251	0.847	0.554	11111	1.13	38566.7862	22222
6603	2.796	1.166	1.243	1.027	0.602	11101	1.15	37563.5681	22222
6603	2.773	1.171	1.240	0.906	0.516	11101	1.35	37564.6229	22222
6603	2.782	1.179	1.229	0.854	0.561	11111	1.13	38567.7974	22222
6603	2.740	1.179	1.234	0.795	0.557	11111	1.19	38568.7419	22222
6603	2.749	1.145	1.231	0.790	0.567	11111	1.13	38577.7802	22222
6603	2.767	1.181	1.212	0.000	0.000	11100	1.24	38637.6745	44444
6603	2.773	1.127	1.219	0.816	0.568	11111	1.14	38638.6190	44444
6603	2.739	1.189	1.234	0.783	0.573	11111	1.43	38638.7090	44444
6603	2.756	1.167	1.232	0.805	0.571	11111	1.19	38639.6504	44444
6603	2.740	1.173	1.231	0.815	0.592	11111	1.18	38655.6032	44444
6603	2.750	1.183	1.268	0.794	0.575	11111	1.28	38658.6269	22222
6603	2.747	1.153	1.233	0.802	0.571	11111	1.35	38668.6152	44444
6603	2.768	1.165	1.239	0.827	0.564	11111	2.06	38668.6818	44444
6603	2.759	1.160	1.244	0.833	0.554	11111	2.33	38669.6917	44444
6603	2.799	1.216	1.295	0.797	0.599	11111	1.30	38670.5999	44444
6603	2.761	1.161	1.250	0.812	0.584	11111	3.28	38670.7143	44444
6603	2.775	1.178	1.246	0.835	0.576	11111	1.28	38671.5916	44444
6603	2.756	1.158	1.244	0.817	0.568	11111	3.23	38671.7107	44444
6603	2.791	1.184	1.259	0.819	0.564	11111	1.33	38673.5967	44444
6603	2.746	1.169	1.245	0.780	0.590	11111	1.25	38674.5750	44444
6603	2.747	1.170	1.238	0.795	0.575	11111	2.29	38674.6764	44444
6603	2.746	1.160	1.240	0.826	0.580	11111	1.33	38675.5921	44444
6603	2.715	1.167	1.233	0.789	0.589	11111	1.28	38676.5781	44444
6603	2.766	1.197	1.241	0.799	0.585	11111	1.26	38677.5692	22222
6603	2.811	1.203	1.246	0.837	0.582	11111	1.30	38678.5766	44444
6603	2.858	1.208	1.300	0.850	0.620	11111	1.29	38679.5715	22222
6603	2.750	1.184	1.236	0.821	0.589	11111	1.28	38680.5669	44444
6603	2.768	1.166	1.247	0.802	0.594	11111	1.29	38681.5657	44444
6603	2.754	1.171	1.250	0.815	0.579	11111	1.30	38682.5661	44444
6603	2.761	1.164	1.224	0.881	0.556	11111	1.76	38818.9656	22222
6603	2.769	1.158	1.240	0.000	0.000	11100	1.24	38864.9145	22200
6603	2.781	1.151	1.232	0.000	0.000	11100	1.16	38864.9437	22200
6603	2.770	1.171	1.237	0.818	0.561	11111	1.16	38871.0005	44444
6603	2.779	1.169	1.245	0.000	0.000	11100	1.13	38878.9308	22200
6603	2.780	1.177	1.241	0.000	0.000	11100	1.13	38878.9485	22200
6603	2.762	1.164	1.238	0.000	0.000	11100	2.22	38879.7721	44400
6603	2.781	1.161	1.234	0.000	0.000	11100	1.17	38879.9016	44400
6603	2.778	1.162	1.242	0.000	0.000	11100	1.13	38879.9444	22200
6603	2.772	1.162	1.240	0.000	0.000	11100	1.14	38879.9632	22200
6603	2.773	1.169	1.236	0.000	0.000	11100	1.17	38879.9862	22200
6603	2.795	1.185	1.241	0.000	0.000	11100	2.05	38881.7750	44400

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6603	2.736	1.147	1.218	0.000	0.000	11100	1.20	38881.9904	44400
6603	2.767	1.161	1.235	0.000	0.000	11100	2.04	38882.7725	44400
6603	2.810	1.183	1.216	0.000	0.000	11100	1.13	38882.9477	44400
6603	2.761	1.167	1.251	0.000	0.000	11100	2.41	38900.7072	44400
6603	2.778	1.160	1.267	0.000	0.000	11100	1.13	38900.8919	44400
6603	2.795	1.174	1.249	0.804	0.585	11111	1.23	38905.9357	22222
6603	2.764	1.198	1.242	0.822	0.559	11111	1.25	38930.8736	44444
6603	2.765	1.176	1.246	0.798	0.582	11111	1.14	38934.8089	22222
6603	2.752	1.193	1.237	0.787	0.576	11111	1.24	38938.8493	44444
6603	2.769	1.168	1.240	0.824	0.546	11111	1.24	38940.8439	44444
6603	2.856	1.223	1.291	0.840	0.583	11111	1.18	38944.7187	44444
6603	2.770	1.160	1.240	0.810	0.597	11111	1.14	38992.6513	22221
6603	2.719	1.161	1.220	0.749	0.576	11111	1.13	38993.6181	22222
6603	2.759	1.183	1.208	0.853	0.575	11111	1.14	38995.6092	44444
6603	2.714	1.161	1.186	0.799	0.562	11111	1.14	38996.6386	22222
6603	2.842	1.179	1.299	0.000	0.000	11100	1.52	38996.7419	22222
6603	2.705	1.124	1.234	0.784	0.569	11111	1.14	38997.6042	44444
6603	2.791	1.166	1.289	0.840	0.587	11111	1.74	38997.7604	44444
6603	2.718	1.163	1.226	0.776	0.576	11111	1.16	39004.6358	44444
6603	2.770	1.160	1.240	0.810	0.567	11111	1.17	39014.6137	22221
6603	2.787	1.160	1.249	0.831	0.591	11111	1.18	39018.6090	44444
6603	2.739	1.177	1.240	0.798	0.586	11111	1.16	39019.5961	44444
6603	2.777	1.196	1.238	0.847	0.583	11111	1.17	39025.5859	44444
6603	2.748	1.160	1.250	0.000	0.000	11100	1.17	39026.5812	44400
6603	2.710	1.142	1.221	0.813	0.564	11111	1.20	39028.5886	44444
6603	2.777	1.171	1.249	0.864	0.578	11111	1.17	39029.5760	22222
6603	2.743	1.153	1.286	0.000	0.000	11100	1.17	39032.5669	44400
6603	2.745	1.169	1.241	0.000	0.000	11100	1.35	39033.6159	44400
6603	2.740	1.170	1.251	0.000	0.000	11100	1.25	39034.5908	44400
6603	2.719	1.162	1.242	0.773	0.603	11111	1.34	39036.6061	44444
6603	2.765	1.169	1.242	0.830	0.573	11111	1.28	39037.5902	44444
6603	2.747	1.144	1.255	0.807	0.585	11111	1.35	39038.6019	44444
6603	2.766	1.172	1.245	0.826	0.562	11111	1.24	39040.5713	22222
6603	2.799	1.183	0.000	0.884	0.580	11011	1.25	39041.5704	44444
6603	2.745	1.175	1.259	0.787	0.597	11111	1.25	39042.5690	44444
6603	2.756	1.140	1.207	0.833	0.556	11111	2.25	39042.6673	44444
6603	2.742	1.145	1.260	0.797	0.597	11111	1.34	39045.5806	44444
6603	2.762	1.192	1.231	0.832	0.579	11111	1.55	39069.5451	44444
6623	3.442	0.744	0.394	0.602	0.331	11111	1.01	38138.9982	33331
6623	3.417	0.750	0.415	0.533	0.369	11111	1.00	38188.8361	44443
6623	3.435	0.755	0.386	0.443	0.371	11111	1.07	38203.8613	44444
6623	3.404	0.751	0.416	0.499	0.424	11111	1.04	38225.7838	44444
6623	3.408	0.741	0.383	0.569	0.407	11111	1.23	38317.5982	44444
6629	3.752	0.029	0.064	0.065	-0.037	11101	1.44	37564.6346	22222
6629	3.754	0.022	0.010	0.090	-0.040	11100	1.41	37571.6112	22222
6629	3.767	0.032	0.059	0.138	0.004	11101	1.34	37593.5394	22222
6629	3.754	0.008	0.053	0.213	-0.002	11101	1.79	37593.5913	22222
6629	3.726	0.018	0.026	0.234	-0.037	11101	1.60	37594.5716	22222
6629	3.727	0.046	0.067	0.190	-0.005	11101	1.41	37595.5458	22222
6629	3.753	0.032	0.048	0.126	-0.039	11101	1.20	37808.8056	22222
6629	3.763	0.052	0.028	0.086	-0.021	11111	1.15	38147.9468	44444
6629	3.726	0.032	0.037	0.068	-0.045	11111	1.15	38161.9162	44444
6629	3.747	0.038	0.047	0.075	-0.013	11111	1.18	38176.8324	44444
6629	3.744	0.040	0.020	0.046	-0.015	11111	1.25	38180.7925	44444
6629	3.767	0.023	0.005	0.155	-0.006	11111	2.49	38186.6658	44443
6629	3.745	0.048	0.038	0.081	-0.015	11111	1.15	38186.8490	44443
6629	3.761	0.008	0.013	0.100	0.039	11111	2.49	38187.6630	44443
6629	3.740	0.039	0.047	-0.002	0.015	11111	1.15	38187.8435	44443
6629	3.756	0.003	-0.028	0.118	0.033	11111	2.34	38189.6634	44443
6629	3.751	0.048	0.064	3.489	0.006	11101	1.20	38189.8811	44443
6629	3.751	0.029	-0.011	0.080	-0.022	11111	2.26	38190.6639	44443
6629	3.757	0.017	0.045	-0.025	0.010	11111	1.15	38190.8321	44443
6629	3.739	0.008	0.039	0.035	0.012	11111	2.10	38192.6656	44443
6629	3.737	0.044	0.048	0.035	-0.004	11111	1.15	38192.8272	44443
6629	3.712	0.024	0.044	0.066	0.003	11111	2.15	38194.6577	44443
6629	3.744	0.034	0.037	0.004	-0.009	11111	1.32	38194.9030	44443
6629	3.751	0.007	0.018	0.063	-0.040	11110	2.07	38199.6481	44443
6629	3.756	0.036	0.033	-0.005	0.026	11111	1.15	38199.8075	44443
6629	3.749	0.034	0.032	0.050	-0.021	11111	1.74	38201.6641	44421
6629	3.762	0.044	0.033	0.012	-0.011	11111	1.15	38201.8066	44421
6629	3.743	0.035	0.021	-0.036	-0.010	11111	1.16	38202.8214	44444
6629	3.747	0.042	0.029	0.108	-0.006	11111	2.06	38203.6376	44444
6629	3.753	0.047	0.034	-0.012	-0.018	11111	1.15	38203.8026	44444
6629	3.758	0.039	0.037	-0.045	0.001	11111	1.28	38203.8677	44444
6629	3.703	0.051	0.033	0.062	-0.039	11111	2.08	38204.6341	44444
6629	3.745	0.064	0.026	-0.011	-0.025	11111	1.16	38204.7740	44444
6629	0.	0.068	0.021	0.090	-0.040	01100	1.15	38204.7861	44444
6629	3.749	0.039	0.028	-0.040	-0.010	11111	1.15	38205.7800	22222
6629	3.723	0.072	-0.044	-0.039	-0.058	11111	1.15	38206.7897	44444
6629	0.	0.036	0.034	-0.064	0.015	01111	1.16	38207.8029	02222
6629	3.791	0.009	0.032	0.133	0.016	11111	1.16	38209.8007	44433
6629	3.772	0.040	0.018	-0.039	0.018	11111	1.17	38222.7706	44443
6629	3.755	0.020	0.035	-0.001	0.008	11111	1.24	38225.7966	44444
6629	0.000	0.043	0.065	0.090	-0.040	01100	1.22	38293.6064	44444
6629	3.736	0.039	0.052	0.049	0.005	11111	1.26	38293.6169	44444
6629	3.745	0.026	0.028	-0.017	0.078	11111	3.19	38293.7447	44444
6629	3.716	0.049	0.065	-0.014	0.008	11111	1.40	38305.6148	44444
6629	3.742	0.034	0.069	0.029	0.	11111	1.44	38311.6052	44444
6629	3.757	0.033	0.054	0.086	0.010	11111	1.36	38317.5746	44444
6629	3.750	0.040	0.040	0.058	0.051	11111	1.39	38320.5727	24211
6629	3.779	0.054	0.017	0.104	-0.007	11111	2.14	38438.9894	44444
6629	3.782	0.044	0.013	0.089	-0.007	11111	2.10	38440.9857	44444
6629	3.770	0.064	0.013	0.073	0.004	11111	2.25	38446.9624	44444
6629	3.766	0.034	0.008	0.063	-0.009	11111	2.19	38449.9567	44444
6629	3.766	0.044	0.013	0.070	-0.007	11111	2.02	38469.9108	44444
6629	3.805	0.036	0.005	0.000	0.000	11100	2.09	38475.8906	44400
6629	3.731	0.041	0.001	0.033	-0.009	11111	2.08	38480.8776	44444
6629	3.741	0.042	0.057	0.036	-0.005	11111	1.16	38506.9812	22222
6629	3.744	0.040	0.041	0.059	0.005	11111	2.14	38511.7899	44444
6629	3.759	0.041	0.079	0.118	-0.012	11111	1.16	38515.9558	44444
6629	3.709	0.044	0.052	0.024	-0.020	11111	1.19	38517.9758	44444
6629	3.705	0.045	0.042	0.031	-0.014	11111	1.24	38522.9843	22222
6629	3.726	0.036	0.033	0.000	0.000	11100	1.19	38524.8732	22200
6629	3.723	0.032	0.020	0.000	0.000	11100	1.17	38524.9445	22200
6629	3.757	0.039	0.037	0.101	-0.007	11111	2.12	38525.7529	44444
6629	3.741	0.032	0.063	0.038	-0.026	11111	1.21	38525.9641	44444
6629	3.727	0.052	0.048	0.048	-1.280	11110	1.25	38527.9717	22222
6629	3.681	0.047	0.049	0.028	-0.008	11111	1.16	38528.9263	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6629	3.742	0.053	0.043	0.021	-0.004	11111	1.15	38532.9059	22222
6629	3.777	0.049	0.055	0.051	-0.017	11111	1.15	38533.8968	44444
6629	3.757	0.056	0.048	-0.004	-0.021	11111	1.15	38534.8850	44444
6629	3.693	0.046	0.032	0.009	-0.019	11111	1.16	38535.9030	22222
6629	3.727	0.042	0.041	0.023	0.005	11111	1.29	38535.9627	22222
6629	3.747	0.046	0.032	0.046	0.011	11111	1.15	38536.8937	22221
6629	3.753	0.034	0.048	0.060	0.016	11111	1.28	38536.9576	22221
6629	3.750	0.040	0.040	0.053	0.005	11111	1.89	38537.7333	44443
6629	3.784	0.009	0.050	0.112	-0.008	11111	1.66	38545.7291	22222
6629	3.760	0.042	0.053	0.019	-0.006	11111	1.16	38545.8442	22222
6629	3.752	0.026	0.052	0.047	-0.017	11111	1.45	38557.9314	44444
6629	3.749	0.063	0.022	0.042	-0.017	11111	1.27	38560.8883	22222
6629	3.751	0.037	0.056	0.081	-0.021	11111	1.26	38561.8821	22222
6629	3.777	0.044	0.061	0.076	-0.028	11111	1.26	38562.8809	22222
6629	3.736	0.060	0.032	0.024	-0.025	11111	1.15	38563.7987	22222
6629	3.726	0.053	0.040	0.004	-0.011	11111	1.16	38564.7921	22222
6629	3.732	0.057	0.041	0.020	-0.010	11111	1.15	38565.7959	22222
6629	3.749	0.047	0.043	0.052	-0.029	11111	1.15	38566.7941	22222
6629	3.756	0.035	0.058	0.055	-0.011	11111	1.15	38567.8055	22222
6629	3.723	0.052	0.048	0.029	-0.017	11111	1.20	38568.7489	22222
6629	3.708	0.008	0.049	-0.021	-0.008	11111	1.15	38577.7731	22222
6629	3.738	0.038	0.041	0.043	0.001	11111	1.29	38637.6847	44444
6629	3.839	-0.083	0.154	0.150	-0.041	11111	1.16	38638.6291	44444
6629	3.709	0.070	0.021	0.013	0.019	11111	1.50	38638.7183	44444
6629	3.737	0.047	0.034	0.047	-0.010	11111	1.23	38639.6591	44444
6629	3.715	0.050	0.020	0.034	0.015	11111	1.23	38655.6154	44444
6629	3.719	0.065	0.048	0.014	0.009	11111	1.32	38658.6341	22222
6629	3.737	0.021	0.044	0.041	0.011	11111	1.41	38668.6233	44444
6629	3.759	0.039	0.038	0.042	0.010	11111	2.32	38668.6932	44444
6629	3.797	0.052	0.072	0.093	0.019	11111	1.25	38669.5863	44444
6629	3.743	0.029	0.025	0.036	0.011	11111	2.71	38669.7036	44444
6629	3.800	0.063	0.064	0.062	0.028	11111	1.37	38670.6096	44444
6629	3.748	0.020	0.019	0.053	-0.019	11111	2.74	38670.7019	44444
6629	3.754	0.038	0.051	0.047	0.020	11111	1.26	38671.5835	44444
6629	3.783	0.034	0.048	0.052	0.010	11111	2.75	38671.6994	44444
6629	3.784	0.056	0.040	0.038	0.014	11111	1.30	38673.5883	44444
6629	3.720	0.043	0.022	0.042	-0.003	11111	1.29	38674.5825	44444
6629	3.735	0.010	0.022	0.034	-0.000	11111	2.79	38674.6924	44444
6629	3.742	0.042	0.013	0.037	0.014	11111	1.27	38675.5743	44444
6629	3.754	0.044	0.030	0.041	-0.003	11111	2.77	38675.6890	44444
6629	3.697	0.025	0.008	0.032	-0.001	11111	1.36	38676.5927	44444
6629	3.736	0.031	0.044	0.030	-0.004	11111	1.30	38677.5759	22222
6629	3.805	0.053	0.068	0.066	0.027	11111	1.34	38678.5827	44444
6629	3.803	0.047	0.054	-0.023	0.020	11111	1.78	38679.6336	22222
6629	3.748	0.036	0.022	0.056	0.016	11111	1.33	38681.5726	44444
6629	3.757	0.029	0.037	0.053	-0.005	11111	1.35	38682.5730	44444
6629	3.785	0.052	0.103	0.098	0.004	11111	1.75	38788.0577	44444
6629	3.750	0.040	0.044	0.026	-0.015	11111	1.68	38792.0533	22221
6629	3.756	0.004	0.047	0.080	-0.008	11111	1.75	38818.9732	22222
6629	3.741	0.040	0.047	0.000	0.000	11100	1.20	38864.9399	22200
6629	3.744	0.040	0.037	0.058	-0.013	11111	1.19	38871.0081	44444
6629	3.760	0.025	0.039	0.071	-0.030	11111	1.16	38871.9809	44444
6629	3.736	0.047	0.028	0.000	0.000	11100	1.15	38878.9347	22200
6629	3.767	0.039	0.045	0.000	0.000	11100	1.15	38878.9535	22200
6629	3.752	0.034	0.041	0.000	0.000	11100	2.22	38879.7784	44400
6629	3.788	0.049	0.057	0.000	0.000	11100	1.18	38879.9067	44400
6629	3.765	0.019	0.041	0.000	0.000	11100	1.15	38879.9396	22200
6629	3.736	0.056	0.032	0.000	0.000	11100	1.16	38879.9674	22200
6629	3.749	0.038	0.040	0.000	0.000	11100	1.20	38879.9902	22200
6629	3.711	0.037	-0.001	0.000	0.000	11100	1.22	38881.9948	44400
6629	3.748	0.034	0.038	0.000	0.000	11100	2.09	38882.7766	44400
6629	3.768	0.041	0.026	0.000	0.000	11100	1.16	38882.9515	44400
6629	3.751	0.031	0.039	0.000	0.000	11100	2.44	38900.7124	44400
6629	3.743	0.048	0.073	0.000	0.000	11100	1.15	38900.8964	44400
6629	3.764	0.050	0.039	0.043	-0.005	11111	1.26	38905.9419	22222
6629	3.758	0.035	0.033	0.054	0.011	11111	1.30	38930.8822	44444
6629	3.743	0.066	0.021	0.046	-0.010	11111	1.22	38932.8547	44444
6629	3.743	0.044	0.041	0.053	0.003	11111	1.16	38934.8156	22222
6629	3.752	0.003	0.056	0.042	-0.006	11111	1.28	38938.8557	44444
6629	3.704	0.063	0.049	0.009	-0.026	11111	1.28	38940.8510	44444
6629	3.792	0.071	0.054	0.023	0.019	11111	1.19	38944.7251	44444
6629	3.750	0.040	0.040	0.053	-0.022	11111	1.17	38992.6624	22221
6629	3.715	0.041	0.019	0.002	-0.013	11111	1.15	38993.6766	22222
6629	3.752	0.020	0.011	0.094	-0.021	11111	1.15	38995.6180	44444
6629	3.704	0.025	-0.012	0.043	-0.021	11111	1.16	38996.6452	22222
6629	3.809	0.095	0.049	0.067	0.028	11111	1.49	38996.7358	22222
6629	3.688	0.007	0.010	0.023	-0.003	11111	1.15	38997.6124	44444
6629	3.792	0.071	0.072	0.052	0.029	11111	1.66	38997.7524	44444
6629	3.716	0.008	-0.014	0.015	-0.020	11111	1.16	39004.6265	44444
6629	3.796	0.048	0.112	0.000	0.000	11100	1.30	39013.6562	22200
6629	3.750	0.040	0.040	0.053	0.008	11111	1.32	39014.6587	22221
6629	3.728	0.041	0.035	0.028	0.009	11111	1.50	39018.6771	44444
6629	3.730	0.038	0.053	0.043	-0.000	11111	1.19	39019.6037	44444
6629	3.735	0.035	0.029	0.000	0.000	11100	1.19	39024.5920	44400
6629	3.757	0.032	0.049	0.057	0.015	11111	1.21	39025.5944	44444
6629	3.740	0.012	0.051	0.000	0.000	11100	1.19	39026.5861	44400
6629	3.748	0.034	0.024	0.045	0.004	11111	1.52	39028.6522	44444
6629	3.764	0.055	0.040	0.064	0.014	11111	1.21	39029.5838	22222
6629	3.726	0.032	0.018	0.000	0.000	11100	1.20	39032.5715	44400
6629	3.733	0.025	0.014	0.000	0.000	11100	1.43	39033.6271	44400
6629	3.728	0.041	0.027	0.000	0.000	11100	1.28	39034.5944	44400
6629	3.711	0.042	0.032	0.037	0.017	11111	1.41	39036.6151	44444
6629	3.733	0.029	0.039	0.028	0.010	11111	1.36	39037.6039	44444
6629	3.740	0.016	0.023	0.061	0.012	11111	1.42	39038.6117	44444
6629	3.746	0.044	0.036	0.069	-0.011	11111	1.28	39040.5778	22222
6629	3.748	0.023	0.050	0.061	0.014	11111	1.29	39041.5773	44444
6629	3.722	0.063	0.031	0.032	0.006	11111	1.31	39042.5791	44444
6629	3.717	0.026	0.046	0.021	0.009	11111	1.43	39045.5930	44444
6629	3.750	0.062	0.013	0.050	0.021	11111	1.62	39069.5516	44444
6636	4.595	0.452	-0.025	0.381	0.223	11111	1.31	38187.8637	44443
6636	4.568	0.431	0.014	0.387	0.240	11111	1.32	38544.9101	44444
6636	4.561	0.411	0.033	0.357	0.238	11111	1.31	38556.7987	44444
6685	5.453	0.362	0.279	0.315	0.198	11111	1.04	38496.9516	44444
6685	5.422	0.331	0.289	0.313	0.225	11111	1.15	38637.7059	44444
6685	5.437	0.316	0.307	0.325	0.213	11111	1.06	38655.6225	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6688	3.767	1.166	1.220	0.764	0.580	11111	1.10	38188.8422	44443
6688	3.754	1.189	1.200	0.875	0.587	11111	1.10	38545.8557	22222
6688	3.741	1.183	1.213	0.855	0.592	11111	1.10	38558.8511	44444
6695	3.856	1.343	1.445	0.928	0.621	11111	1.00	38545.8677	22222
6695	3.852	1.368	1.441	0.875	0.603	11111	1.00	38557.8424	44444
6695	3.894	1.349	1.484	0.908	0.648	11111	1.10	38558.9136	44444
6698	3.335	1.011	0.868	0.642	0.490	11111	1.51	38203.8740	44444
6698	3.366	0.965	0.880	0.774	0.474	11111	1.36	38545.8882	22222
6698	3.345	1.000	0.885	0.696	0.501	11111	1.35	38559.8347	44444
6700	4.770	-0.059	-0.026	0.078	-0.023	11111	1.95	38545.9216	22222
6700	4.753	-0.033	-0.054	0.040	-0.031	11111	1.79	38557.8349	44444
6700	4.732	-0.050	-0.027	0.027	-0.005	11111	1.81	38559.8458	44444
6703	3.691	0.962	0.693	0.749	0.441	11111	1.03	38152.9875	44444
6703	3.709	0.917	0.687	0.604	0.491	11111	1.05	38223.8020	44444
6703	3.709	0.948	0.710	0.720	0.447	11111	1.07	38545.9325	22222
6705	2.194	1.510	1.867	1.129	0.817	11111	1.28	38315.6253	44444
6705	2.203	1.502	1.903	1.093	0.905	11111	1.30	38317.6259	44444
6705	2.240	1.490	1.936	1.151	0.925	11111	1.44	38320.6452	24211
6705	2.241	1.513	1.893	1.152	0.854	11111	1.09	38564.8671	22222
6705	2.244	1.525	1.872	1.147	0.842	11111	1.06	38565.8133	22222
6705	2.229	1.527	1.894	1.173	0.839	11111	1.09	38567.8554	22222
6707	4.412	0.395	0.154	0.414	0.227	11111	1.00	38161.9312	44444
6707	4.410	0.391	0.160	0.431		11110	1.00	38188.8485	44443
6707	4.408	0.394	0.123	0.366	0.224	11111	1.00	38211.7872	44443
6710	4.622	0.371	-0.017	0.303	0.192	11111	1.26	38142.9409	44444
6710	4.631	0.412	-0.029	0.313	0.213	11111	1.43	38203.8868	44444
6710	4.636	0.377	0.017	0.363	0.192	11111	1.28	38545.9099	22222
6710	4.615	0.409	-0.002	0.323	0.194	11111	1.25	38559.8549	44444
6712	4.580	-0.023	-0.788	0.151	-0.006	11111	1.27	38545.9436	22222
6712	4.582	-0.027	-0.823	0.130	-0.045	11111	1.14	38557.8494	44444
6712	4.625	-0.025	-0.815	0.119	-0.020	11111	1.18	38559.8735	44444
6713	4.657	1.261	1.215	0.873	0.588	11111	1.18	38545.9529	22222
6713	4.697	1.268	1.219	0.893	0.593	11111	1.23	38558.9296	44444
6713	4.681	1.272	1.211	0.837	0.604	11111	1.09	38559.8821	44444
6714	3.978	0.015	-0.576	0.113	0.008	11111	1.37	38545.9620	22222
6714	3.942	0.028	-0.605	0.097	-0.016	11111	1.16	38557.8592	44444
6714	3.978	0.006	-0.745	0.094	0.004	11111	1.24	38559.8908	44444
6723	4.402	0.046	0.014	0.074	-0.006	11111	1.19	38557.8660	44444
6723	4.448	0.028	0.033	0.068	0.026	11111	1.29	38559.9009	44444
6736	5.976	-0.006	-0.907	0.236	0.011	11111	1.75	37835.8092	22222
6736	5.964	0.013	-0.877	0.259	0.028	11111	1.75	37836.8089	22222
6752	4.058	0.861	0.515	0.635	0.447	11111	1.18	38204.8364	44444
6752	4.031	0.826	0.500	0.656	0.477	11111	1.18	38216.8082	44444
6766	4.553	0.948	0.757	0.693	0.523	11111	2.06	38192.8559	44443
6766	4.555	0.960	0.747	0.553	0.503	11111	2.13	38204.8429	44444
6770	4.641	0.939	0.762	0.657	0.519	11111	1.09	38154.9443	44444
6770	4.597	1.021	0.713	0.765	0.474	11111	1.10	38209.8137	44433
6770	4.645	0.950	0.722	0.656	0.495	11111	1.09	38536.9078	22221
6770	4.576	0.955	0.691	0.874	0.522	11111	1.09	38546.8798	22222
6770	4.623	0.934	0.671	0.962	0.510	11111	1.11	38546.9013	22222
6771	3.708	0.136	0.106	0.168	-0.003	11111	1.09	38161.9444	44444
6771	3.756	0.077	0.099	0.130	0.073	11111	1.09	38209.8072	44433
6771	3.727	0.137	0.085	0.113	0.079	11111	1.09	38536.9149	22221
6779	3.836	-0.029	-0.065	-0.022	-0.001	11111	1.00	38165.9165	44444
6779	3.833	-0.008	-0.094	0.087	-0.011	11111	1.00	38185.8629	22221
6779	3.827	-0.018	-0.057	0.024	0.025	11111	1.01	38536.9220	22221
6787	4.358	-0.139	-0.804	-0.019	-0.219	11111	1.02	38136.9950	44444
6787	4.352	-0.154	-0.825	-0.067	-0.155	11111	1.04	38536.9340	22221
6787	4.330	-0.154	-0.816	-0.106	-0.162	11111	1.07	38547.8147	22222
6789	4.372	0.037	0.004	0.103	-0.032	11111	1.71	38186.8651	44443
6789	4.384	-0.010	0.065	0.107	-0.038	11111	1.72	38544.9245	44444
6789	4.301	0.011	0.069	-0.064	0.037	11111	1.71	38558.8362	44444
6812	3.854	0.222	-0.466	0.270	0.206	11111	1.68	38523.9360	44444
6812	3.855	0.211	-0.463	0.279	0.189	11111	1.77	38547.8267	22222
6842	4.592	1.618	1.808	1.296	0.976	11111	1.97	38165.9280	44444
6842	4.644	1.665	1.796	1.139	0.910	11111	1.96	38188.8547	44443
6842	4.638	1.685	1.801	1.217	0.872	11111	1.97	38519.9632	44444
6859	2.659	1.368	1.520	1.052	0.719	11111	2.15	38165.9337	44444
6859	2.686	1.394	1.564	0.944	0.680	11111	2.16	38519.9701	44444
6859	2.709	1.386	1.552	1.005	0.663	11111	2.14	38521.9434	44444
6866	4.828	0.908	0.602	0.655	0.467	11111	1.14	38165.9225	44444
6866	4.847	0.904	0.617	0.751	0.444	11111	1.14	38210.8030	11111
6866	4.834	0.909	0.598	0.660	0.443	11111	1.17	38547.8424	22222
6866	4.872	0.919	0.602	0.685	0.444	11111	1.30	38561.7573	22222
6868	4.946	1.610	2.006	1.321	0.999	11111	1.02	38199.8514	44443
6868	4.965	1.560	1.986	1.365	0.992	11111	1.02	38207.8365	44444
6869	3.231	0.963	0.645	0.693	0.523	11111	1.71	38306.6586	44444
6869	3.228	0.945	0.644	0.688	0.491	11111	1.24	38547.8533	22222
6869	3.261	0.942	0.652	0.716	0.486	11111	1.38	38561.7639	22222
6872	4.344	1.167	1.189	0.847	0.541	11111	1.01	38192.8677	44443
6872	4.330	1.175	1.180	0.881	0.544	11111	1.00	38210.8109	11111
6884	4.678	0.958	0.695	0.713	0.476	11111	1.34	38547.8643	22222
6884	4.685	0.932	0.725	0.724	0.469	11111	1.33	38560.8488	22222

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6895	3.865	1.168	1.187	0.867	0.596	11111	1.03	38199.8589	44443
6895	3.848	1.179	1.156	0.836	0.597	11111	1.03	38216.8169	44444
6896	4.767	1.319	0.926	1.125	0.879	11111	1.67	38165.9392	44444
6896	4.814	1.302	0.921	1.039	0.844	11111	1.66	38523.9431	44444
6896	4.836	1.294	0.937	1.137	0.807	11111	1.66	38547.8761	22222
6913	2.805	1.039	0.928	0.727	0.551	11111	1.91	38224.7914	44444
6913	2.826	1.048	0.903	0.792	0.527	11111	1.87	38521.9507	44444
6913	2.825	1.034	0.893	0.749	0.562	11111	1.87	38523.9499	44444
6917	5.826	0.095	0.112	0.091	0.045	11111	1.03	38997.6937	44444
6918	5.205	0.481	0.196	0.474	0.387	11111	1.18	38154.9565	44444
6918	5.209	0.511	0.222	0.508	0.392	11111	1.18	38192.8617	44443
6918	5.226	0.506	0.218	0.473	0.388	11111	1.31	38203.8932	44444
6918	5.216	0.510				11000	1.18	38226.7572	44444
6920	4.225	-0.100	-0.358	0.023	-0.116	11111	1.28	38188.8615	44443
6920	4.201	-0.093	-0.319	-0.086	-0.098	11111	1.29	38547.8889	22222
6920	4.220	-0.104	-0.304	-0.049	-0.098	11111	1.33	38561.7719	22222
6923	5.017	0.081	0.042	0.060	0.010	11111	1.12	38192.8736	44443
6923	4.953	0.083	0.058	0.038	0.022	11111	1.14	38561.7950	22222
6927	3.579	0.514	-0.060	0.422	0.306	11111	1.31	38183.8797	44421
6927	3.606	0.434	-0.021	0.483	0.304	11111	1.31	38560.8579	22222
6927	3.543	0.486	-0.045	0.416	0.305	11111	1.34	38561.7792	22222
6930	4.693	0.064	0.066	0.063	0.053	11111	1.47	38183.8928	44421
6930	4.723	0.044	0.008	0.050	0.057	11111	1.47	38206.8282	44444
6930	4.708	0.094	0.046	0.129	0.026	11111	1.47	38226.7665	44444
6945	4.853	1.173	1.122	0.886	0.608	11111	1.19	38187.8712	44443
6945	4.804	1.188	1.110	0.840	0.631	11111	1.21	38561.8026	22222
6945	4.806	1.213	1.106	0.865	0.637	11111	1.29	38638.7296	44444
6973	3.877	0.992	1.814	0.969	0.682	10011	1.44	38544.9581	44444
6973	3.837	1.339	1.496	0.995	0.665	11111	1.32	38547.9020	22222
6973	3.852	1.340	1.514	0.942	0.701	11111	1.50	38637.7162	44444
6978	4.796	0.610	0.427	0.541	0.298	11111	1.10	38186.8730	44443
6978	4.804	0.609	0.448	0.521	0.314	11111	1.10	38226.7763	44444
6993	5.737	0.085	0.066	0.030	0.028	11111	1.20	38993.6353	22222
6993	5.758	0.059	0.063	0.104	0.034	11111	1.21	38995.6251	44444
6993	5.716	0.027	0.057	0.061	0.031	11111	1.18	38996.6539	22222
6993	5.731	0.025	0.044	0.103	0.035	11111	1.19	38997.6318	44444
7001	0.046	0.045	-0.127	-0.054	-0.022	11011	1.13	38185.9717	22221
7001	0.021	0.006	0.023	-0.014	-0.031	11111	1.01	38186.8801	44443
7001	-0.083	-0.062	0.054	-0.099	-0.030	11111	1.17	38294.6860	44444
7001	0.014	-0.006	0.033	-0.026	-0.026	11111	1.27	38315.6547	44444
7001	-0.016	0.005	0.019	-0.029	0.003	11111	1.51	38317.6862	44444
7020	4.749	0.361	0.175	0.322	0.184	11111	1.49	38544.9679	44444
7020	4.680	0.344	0.143	0.279	0.192	11111	1.55	38637.7255	44444
7039	3.161	-0.113	-0.350	0.059	-0.186	11111	1.96	38521.9576	44444
7039	3.165	-0.119	-0.354	-0.006	-0.088	11111	1.96	38523.9572	44444
7039	3.185	-0.089	-0.364	-0.017	-0.057	11111	2.37	38669.6378	44444
7056	4.370	0.194	0.131	0.188	0.064	11111	1.01	38183.8993	44421
7056	4.348	0.192	0.163	0.136	0.071	11111	1.01	38226.7852	44444
7056	0.000	0.000	0.000	0.122	0.087	00011	1.14	38638.7407	44444
7056	4.329	0.203	0.166	0.158	0.093	11111	1.05	38655.6538	44444
7059	5.594	0.112	0.097	0.171	0.036	11111	1.18	38996.6803	22222
7059	5.638	0.102	0.051	0.187	0.070	11111	1.18	38997.6403	44444
7061	4.193	0.477	0.062	4.067	0.267	11101	1.02	38187.8775	44443
7061	4.190	0.471	0.016	0.376	0.233	11111	1.02	38521.9661	44444
7061	0.000	0.505	0.318	6.242	0.268	01001	1.22	38638.7491	44444
7061	4.185	0.455	0.003	0.400	0.279	11111	1.09	38655.6612	44444
7063	4.222	1.084	0.830	0.782	0.578	11111	1.26	38523.9650	44444
7063	4.210	1.101	0.839	0.799	0.562	11111	1.27	38639.6679	44444
7064	4.850	1.179	1.234	0.870	0.606	11111	1.01	38188.8836	44443
7064	4.824	1.219	1.210	0.884	0.619	11111	1.22	38306.6663	44444
7066	5.439	1.472	1.509	1.090	0.762	11111	1.28	38523.9769	44444
7066	5.199	1.466	1.638	1.057	0.774	11111	1.30	38639.6760	44444
7069	4.367	0.138	0.064	0.117	0.014	11111	1.03	38202.8448	44444
7069	4.338	0.111	0.055	0.046	0.009	11111	1.04	38216.8256	44444
7069	4.359	0.126	0.097	0.096	0.010	11111	1.03	38521.9729	44444
7106	3.378	-0.060	-0.573	0.093	0.021	11111	1.00	38154.9667	44444
7106	3.535	0.015	-0.549	0.137	0.011	11111	1.02	38556.9085	44444
7106	3.342	0.067	-0.598	0.084	0.041	11111	1.20	38638.7601	44444
7116	4.859	1.439	1.283	1.033	0.679	11111	1.76	38556.8920	44444
7116	4.811	1.385	1.264	0.966	0.712	11111	2.00	38668.6378	44444
7116	4.815	1.384	1.277	1.028	0.688	11111	2.10	38669.6462	44444
7120	5.010	1.359	1.478	0.000	0.000	11100	1.75	38936.8503	44444
7120	5.019	1.356	1.481	0.939	0.671	11111	1.80	38993.6453	22222
7120	5.028	1.284	1.575	0.962	0.685	11111	1.82	38995.6347	44444
7120	4.952	1.324	1.493	0.943	0.634	11111	1.75	38996.6622	22222
7120	4.881	1.275	1.449	0.904	0.660	11111	1.76	38997.6489	44444
7121	2.048	-0.191	-0.756	-0.083	-0.237	11111	1.92	38519.9786	44444
7121	2.095	-0.262	-0.719	-0.118	-0.183	11111	2.30	38668.6464	44444
7121	2.073	-0.232	-0.709	-0.116	-0.159	11111	2.46	38669.6554	44444
7125	4.683	1.177	1.053	0.908	0.609	11111	1.12	38192.8801	44443
7125	4.672	1.201	1.045	6.706	0.664	11101	1.27	38637.7653	44444
7125	4.682	1.183	1.043	0.907	0.636	11111	1.16	38658.6564	22222
7125	4.647	1.189	1.028	0.881	0.677	11111	1.28	38670.6796	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
7133	4.614	0.784	0.503	0.654	0.444	11111	1.04	38556.9168	44444
7133	4.582	0.786	0.485	0.632	0.463	11111	1.11	38639.7222	44444
7137	4.942	0.904	0.564	0.661	0.429	11111	1.06	38192.8869	44443
7137	4.931	0.908	0.581	0.690	0.470	11111	1.11	38658.6657	22222
7137	4.906	0.879	0.577	0.679	0.469	11111	1.26	38670.6894	44444
7139	4.287	1.684	1.645	1.739	1.585	11111	1.02	38199.8903	44443
7139	4.328	1.665	1.651	1.837	1.659	11111	1.46	38356.5835	44444
7139	4.301	1.654	1.648	1.775	1.655	11111	1.48	38357.5832	44444
7141	4.099	0.164	0.078	0.192	0.062	11111	1.14	38202.8536	44444
7141	4.036	0.180	0.098	0.155	0.083	11111	1.16	38639.6867	44444
7141	4.600	0.177	0.089	0.147	0.078	01111	1.23	38674.6194	44444
7150	3.534	1.203	1.130	0.829	0.577	11111	1.70	38556.8995	44444
7150	3.498	1.164	1.137	0.793	0.585	11111	2.04	38668.6543	44444
7150	3.464	1.180	1.123	0.786	0.587	11111	1.89	38671.6281	44444
7157	3.989	1.671	1.484	2.087	1.906	11111	1.02	38154.9825	44444
7157	4.015	1.529	1.374	2.060	1.912	11111	1.50	38356.5944	44444
7157	3.995	1.525	1.351	1.967	1.924	11111	1.53	38357.5956	44444
7172	5.160	0.499	0.031	0.422	0.287	11111	1.06	38996.6926	22222
7172	5.228	0.561	0.084	0.480	0.330	11111	1.06	38997.6859	44444
7176	4.021	1.057	1.059	0.771	0.526	11111	1.17	38639.7310	44444
7176	4.012	1.089	1.050	0.706	0.541	11111	1.20	38659.6864	22222
7176	4.029	1.079	1.020	0.812	0.498	11111	1.25	38670.6679	44444
7178	3.206	-0.043				11000	2.39	38135.8103	43411
7178	3.239	-0.051	-0.078	-0.001	-0.024	11111	1.00	38165.9536	44444
7178	0.	-0.013	-0.124	0.090	-0.040	01100	2.28	38167.7274	12221
7178	3.232	-0.014	-0.055	-0.034	0.004	11111	1.00	38167.9501	12221
7178	3.246	-0.045	-0.083	-0.075	0.008	11111	1.00	38183.8865	44421
7178	3.232	-0.015	-0.063	-0.055	0.009	11111	1.00	38192.8933	44443
7178	3.221	-0.032	-0.088	-0.017	-0.002	11111	1.00	38224.7985	44444
7180	4.853	1.148			0.555	11001	1.28	38183.9055	44421
7180	4.788	1.146	1.105	0.895	0.526	11111	1.28	38210.8197	11111
7180	4.786	1.145	1.107	0.793	0.588	11111	1.33	38676.6226	44444
7180	4.856	1.149	1.089	0.851	0.587	11111	1.34	38699.5665	22222
7193	3.976	1.101	1.026	0.727	0.528	11111	1.32	38201.8921	44421
7193	4.043	1.115	1.022	0.000	0.000	11100	1.28	38527.9737	22200
7193	4.033	1.077	1.051	0.834	0.529	11111	1.52	38670.6575	44444
7193	4.042	1.075	1.048	0.809	0.575	11111	1.59	38671.6645	44444
7194	2.583	0.110	0.049	0.084	-0.034	11111	2.15	38206.8368	44444
7194	2.619	0.052	0.081	-7.277	7.229	11000	2.98	38307.6597	44444
7194	2.581	0.120	0.055	0.028	0.041	11111	2.22	38309.5905	11111
7194	2.619	0.022	0.056	0.071	0.031	11111	2.78	38668.6619	44444
7215	5.070	0.207	0.132	0.184	0.108	11111	1.04	38997.7020	44444
7217	3.786	1.037	0.846	0.614	0.527	11111	1.80	38309.6041	11111
7217	3.760	0.985	0.859	0.829	-0.179	11110	1.71	38525.9721	44444
7217	3.758	0.980	0.877	0.700	0.533	11111	2.20	38668.6700	44444
7234	3.329	1.231	1.133	0.844	0.600	11111	2.00	38206.8442	44444
7234	3.293	1.191	1.138		0.614	11101	2.13	38310.6030	44444
7234	3.295	1.204	1.171	0.877	0.575	11111	2.00	38519.9879	44444
7235	2.975	0.062	-0.002	-0.064	-0.004	11111	1.10	38201.9026	44421
7235	2.958	0.024	0.009	0.015	0.006	11111	1.29	38659.7061	22222
7235	3.018	0.006	-0.000	0.071	-0.001	11111	1.19	38699.5755	22222
7236	3.440	-0.068	-0.266	0.000	0.000	11100	1.26	38527.9780	22200
7236	3.421	-0.108	-0.262	-0.035	-0.086	11111	1.26	38547.9121	22222
7236	3.430	-0.098	-0.275	-0.021	-0.099	11111	1.47	38639.7407	44444
7264	2.883	0.332	0.243	0.352	0.227	11111	1.68	38547.9217	22222
7264	2.875	0.315	0.242	0.332	0.249	11111	2.07	38669.6636	44444
7292	4.814	0.538	0.327	0.449	0.350	11111	2.30	38296.6848	44444
7292	4.847	0.556	0.312	0.515	0.346	11111	1.89	38547.9318	22222
7298	4.432	-0.138	-0.653	-0.125	-0.156	11111	1.04	38201.9098	44421
7298	4.368	-0.146	-0.667	-0.035	-0.146	11111	1.01	38210.8278	11111
7298	4.333	-0.138	-0.673	-0.138	-0.137	11111	1.02	38547.9451	22222
7306	4.767	-0.023	-0.534	0.010	-0.090	11111	1.07	38201.9194	44421
7306	4.732	-0.040	-0.579	-0.024	-0.083	11111	1.03	38224.8247	44444
7306	4.801	-0.045	-0.539	0.056	-0.047	11111	1.19	38307.6690	44444
7310	3.079	0.999	0.757	0.760	0.532	11111	1.22	38165.9662	44444
7310	3.075	0.991	0.789	0.664	0.503	11111	1.22	38199.8749	44443
7310	3.064	0.995	0.797	0.677	0.485	11111	1.27	38201.9275	44421
7312	5.130	0.311	0.017	0.282	0.160	11111	1.40	38993.6683	22222
7312	5.110	0.306	-0.001	0.276	0.171	11111	1.39	38995.6996	44444
7312	5.131	0.315	0.000	0.337	0.150	11111	1.39	38996.7023	22222
7312	5.153	0.358	0.006	0.309	0.185	11111	1.40	38997.7103	44444
7312	5.220	0.304	0.010	0.337	0.170	11111	1.42	39000.7336	22222
7314	4.375	1.239	1.233	0.901	0.591	11111	1.00	38189.8969	44443
7314	4.370	1.264	1.233	0.836	0.586	11111	1.01	38205.8489	22222
7317	6.094	1.447	1.555	0.000	0.000	11100	1.50	38936.8689	44444
7317	6.066	1.443	1.571	1.097	0.822	11111	1.55	38993.6556	22222
7317	6.140	1.435	1.608	1.201	0.854	11111	1.51	38995.6717	44444
7317	5.991	1.430	1.553	1.112	0.786	11111	1.50	38996.6707	22222
7317	5.987	1.393	1.546	1.064	0.845	11111	1.52	38997.6584	44444
7328	3.741	0.972	0.730	0.560	0.448	11111	1.07	38206.8522	44444
7328	3.803	0.967	0.736	0.659	0.488	11111	1.08	38270.6990	44443
7328	3.743	0.980	0.754	0.663	0.485	11111	1.23	38659.7215	22222

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
7340	3.966	0.215	0.111	0.185	0.082	11111	1.58	38226.8165	44444
7340	3.911	0.227	0.165	0.179	0.130	11111	1.64	38310.6126	44444
7340	3.910	0.208	0.139	0.190	0.114	11111	1.70	38671.6369	44444
7342	4.611	0.097	-0.539	0.224	0.102	11111	1.51	38202.8610	44444
7342	4.636	0.114	-0.556	0.324	0.115	11111	1.51	38226.8093	44444
7342	4.578	0.084	-0.497	0.271	0.163	11111	1.60	38310.6189	44444
7352	4.456	1.239	1.437	0.898	0.564	11111	1.32	38202.8685	44444
7352	4.432	1.246	1.463	0.906	0.561	11111	1.32	38210.8377	11111
7352	4.474	1.275	1.438	0.890	0.605	11111	1.32	38311.5796	44444
7358	5.185	-0.107	-0.545	-0.094	-0.169	11111	1.01	38202.8755	44444
7358	5.151	-0.131	-0.547	-0.038	-0.145	11111	1.01	38216.8419	44444
7358	5.200	-0.132	-0.501	0.010	-0.167	11111	1.02	38225.8267	44444
7371	4.614	0.025	0.050	0.037	0.001	11111	1.20	38165.9717	44444
7371	4.577	0.036	0.065	0.050	-0.052	11111	1.20	38202.8825	44444
7371	4.563	0.008	0.054	0.024	-0.018	11111	1.20	38216.8339	44444
7372	4.996	-0.073	-0.723	0.005	-0.170	11111	1.00	38204.8569	44444
7372	4.952	-0.095	-0.720	0.071	-0.146	11111	1.00	38210.8481	11111
7372	4.963	-0.110	-0.701	-0.005	-0.119	11111	1.02	38225.8332	44444
7377	3.380	0.326	0.046	0.227	0.143	11111	1.16	38202.8892	44444
7377	3.345	0.326	0.065	0.273	0.169	11111	1.15	38311.5869	44444
7387	4.690	0.617	0.485	0.489	0.440	11111	1.18	38204.8635	44444
7387	4.658	0.597	0.533	0.535	0.483	11111	1.26	38310.6269	44444
7387	4.658	0.585	0.511	0.502	0.474	11111	1.35	38639.7511	44444
7405	4.449	1.516	1.858	1.222	0.976	11111	1.02	38199.9060	44443
7405	4.478	1.495	1.808	1.202	0.951	11111	1.02	38202.8964	44444
7405	4.436	1.496	1.873	1.214	0.982	11111	1.14	38639.7606	44444
7417	3.125	1.162	0.611	0.849	0.641	11111	1.00	38204.8699	44444
7417	3.052	1.112	0.613	0.885	0.652	11111	1.20	38315.6688	44444
7417	3.068	1.128	0.611	0.887	0.697	11111	1.39	38317.6982	44444
7420	3.786	0.151	0.116	0.056	0.059	11111	1.06	38204.8766	44444
7420	3.818	0.139	0.075	0.142	0.086	11111	2.25	38397.5802	44444
7420	3.783	0.139	0.110	0.158	0.074	11111	1.06	38555.9085	44444
7426	4.716	-0.123	-0.669	0.027	-0.169	11111	1.00	38206.8604	44444
7426	4.756	-0.138			-0.147	11001	1.02	38311.6121	44444
7426	4.783	-0.161	-0.648	-0.069	-0.128	11111	3.39	38397.5901	44444
7429	4.458	1.188	1.204	0.886	0.584	11111	1.15	38311.6187	44444
7429	4.442	1.179	1.229	0.861	0.576	11111	1.11	38555.9157	44444
7437	4.990	-0.084	-0.412	-0.027	-0.099	11111	1.03	38205.8570	22222
7437	4.963	-0.103	-0.423	-0.026	-0.087	11111	1.03	38270.7052	44443
7437	5.004	-0.029	-0.461	0.010	-0.084	11111	1.03	38293.6316	44444
7440	4.576	-0.055	-0.184	-0.069	-0.032	11111	1.86	38192.9134	44443
7440	4.595	-0.068	-0.154	0.003	-0.081	11111	1.85	38561.8964	22222
7440	4.622	-0.066	-0.100	-0.025	-0.066	11111	2.01	38670.6477	44444
7446	4.954	-0.033	-0.898	0.063	-0.077	11111	1.27	37565.5988	22222
7446	4.996	0.023	-0.862	0.185	-0.034	11111	1.63	37796.8620	22222
7446	4.972	0.001	-0.861	0.142	-0.055	11111	1.78	37835.7406	22222
7446	4.967	-0.007	-0.877	0.149	-0.055	11111	1.28	37835.8349	22222
7446	4.955	0.005	-0.871	0.097	-0.035	11111	1.31	38176.9222	44444
7446	4.952	0.005	-0.867	0.117	-0.063	11111	1.30	38180.9266	44444
7446	4.942	0.005	-0.851	0.141	-0.016	11111	3.01	38187.7436	44443
7446	4.953	0.016	-0.873	0.105	-0.035	11111	1.30	38187.9095	44443
7446	4.951	0.005	-0.853	0.123	-0.039	11111	2.40	38188.7599	44443
7446	4.951	0.005	-0.895	0.114	-0.008	11111	1.30	38188.9073	44443
7446	4.954	-0.014	-0.827	0.126	-0.023	11111	2.28	38189.7623	44443
7446	4.956	0.011	-0.881	0.105	-0.029	11111	1.30	38189.9121	44443
7446	4.937	0.019	-0.857	0.053	-0.041	11111	2.40	38190.7544	44443
7446	4.944	-0.002	-0.843	0.107	0.014	11111	2.32	38199.7332	44443
7446	4.948	0.018	-0.884	0.109	-0.034	11111	1.30	38199.8824	44443
7446	4.973	-0.019	-0.860	-0.029	0.047	11111	2.92	38209.6859	44433
7446	4.891	0.067	-0.910	4.308	-0.020	11101	1.32	38209.8281	44433
7446	4.962	0.004	-0.877	0.090	-0.040	11100	2.35	38211.6993	44443
7446	4.916	0.001	-0.868	0.036	-0.069	11111	1.30	38223.8240	44444
7446	4.968	0.006	-0.861	0.167	-0.037	11111	1.30	38225.8035	44444
7446	4.908	-0.018	-0.864	0.083	-0.045	11111	1.30	38227.8074	44444
7446	4.920	-0.045	-0.856	0.061	-0.072	11111	1.87	38304.7180	12221
7447	0.	-0.075	-0.442	-0.006	-0.135	01111	1.21	38207.8506	02222
7447	4.404	-0.096	-0.423	0.047	-0.046	11111	1.43	38307.6774	44444
7447	4.308	-0.101	-0.447	0.009	-0.070	11111	1.36	38669.6731	44444
7447	4.368	-0.085	-0.444	0.039	-0.075	11111	1.33	38699.5833	22222
7451	5.775	0.521	0.019	0.443	0.308	11111	1.06	38997.7196	44444
7462	0.	0.842	0.352	0.632	0.396	01111	1.25	38207.8617	02222
7462	4.707	0.805	0.348	0.672	0.415	11111	1.28	38311.6270	44444
7462	4.677	0.791	0.357	0.635	0.421	11111	1.40	38315.6848	44444
7469	4.433	0.435	-0.029	0.317	0.194	11111	1.05	38206.8676	44444
7469	4.510	0.376	-0.020	0.380	0.214	11111	1.17	38306.6888	44444
7469	4.464	0.387	-0.014	0.354	0.216	11111	1.22	38659.7369	22222
7478	4.680	0.974	0.772	0.704	0.505	11111	1.00	38165.9776	44444
7478	4.732	0.897	0.842	0.630	0.419	11111	1.00	38206.8751	44444
7478	4.678	0.971	0.778	0.700	0.501	11111	1.15	38307.6849	44444
7479	4.378	0.737	0.420	0.554	0.317	11111	1.04	38206.8837	44444
7479	4.377	0.783	0.411	0.601	0.395	11111	1.15	38306.6734	44444
7479	4.367	0.795	0.453	0.570	0.400	11111	1.10	38658.6889	22222
7488	4.381	1.055	0.898	0.683	0.478	11111	1.04	38205.8715	22222
7488	4.375	1.065	0.874	0.736	0.515	11111	1.18	38306.6799	44444
7488	4.355	1.033	0.905	0.725	0.510	11111	1.08	38655.6854	44444
7503	5.925	0.628	0.193	0.440	0.322	11111	1.19	38328.6377	44444
7503	5.951	0.654	0.225	0.452	0.340	11111	1.24	38329.6519	44444

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B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
7504	6.182	0.635	0.216	0.435	0.344	11111	1.21	38328.6457	44444
7504	6.200	0.693	0.218	0.448	0.340	11111	1.28	38329.6617	44444
7525	2.735	1.508	1.750	1.090	0.748	11111	2.00	38185.7578	22221
7525	2.751	1.573	1.602	1.072	0.748	11111	1.13	38185.9789	22221
7525	2.715	1.512	1.688	1.055	0.751	11111	1.08	38561.9046	22222
7525	2.669	1.482	1.724	1.075	0.742	11111	1.21	38669.6811	44444
7528	2.881	-0.026	-0.112	-0.062	-0.008	11111	1.03	38192.8994	44443
7528	2.845	-0.001	-0.098	-0.003	-0.032	11111	1.03	38561.9127	22222
7528	2.890	-0.032	-0.100	0.042	-0.015	11111	1.19	38639.7931	44444
7536	3.841	1.387	0.967	1.427	1.285	11111	1.03	38209.8474	44433
7536	3.906	1.423	0.947	1.501	1.329	11111	1.22	38304.7021	12221
7536	3.753	1.430	0.956	1.393	1.264	11111	1.04	38561.9196	22222
7546	4.983	0.148	-0.014	0.170	0.055	11111	1.03	38209.8543	44433
7546	5.010	0.076	0.091	0.118	0.083	11111	1.10	38655.7077	44444
7546	5.008	0.082	0.103	0.116	0.056	11111	1.13	38671.6741	44444
7557	0.758	0.213	0.087	0.090	-0.040	11100	1.14	37590.5953	22222
7557	0.759	0.206	0.108	3.888	0.117	11001	2.40	38185.7458	22221
7557	0.778	0.264	-0.072	0.183	0.127	11011	1.15	38185.9851	22221
7557	0.749	0.228	0.077	0.141	0.119	11111	1.09	38192.9064	44443
7557	0.697	0.197	0.062	0.090	0.112	11101	1.10	38270.7112	44443
7557	0.755	0.213	0.101	0.229	0.140	11111	2.93	38270.8975	44443
7557	0.770	0.220	0.080	0.154	0.167	11111	1.09	38279.6721	44433
7557	0.000	0.291	0.000	0.000	0.000	01000	1.12	38290.6807	44444
7557	0.693	0.223	0.072	0.053	0.174	11111	1.13	38290.6866	44444
7557	0.695	0.215	0.074	0.100	0.121	11111	1.09	38295.6230	21122
7557	0.747	0.236	0.115	0.201	0.119	11111	1.12	38304.6448	12221
7564	11.531	2.205	0.	6.277	3.987	11001	1.04	38200.8400	44444
7564	11.464	2.021	0.000	5.223	4.129	11011	1.62	38296.8005	44444
7564	9.578	1.921	-0.175	4.717	3.599	11111	1.02	38561.9365	22222
7564	9.715	1.940	-0.179	4.765	3.669	11111	1.11	38564.8090	22222
7564	10.234	2.034	-0.128	5.049	3.810	11111	1.01	38577.8316	22222
7564	4.231	1.825	0.957	2.421	1.798	11111	1.31	38846.9869	44444
7564	4.280	1.871	0.924	2.470	1.813	11111	1.51	38849.9497	44444
7564	4.974	1.946	0.704	2.913	2.115	11111	1.07	38872.9789	44444
7564	11.883	2.076	0.293	5.127	4.109	11111	1.04	39032.6666	44444
7564	11.922	1.963	0.393	5.087	4.120	11111	1.00	39033.6146	44444
7564	11.958	2.041	0.424	5.086	4.152	11111	1.01	39034.6308	44444
7564	12.607	1.955	0.595	5.358	4.151	11111	1.05	39056.6048	44444
7564	12.613	1.895	0.666	5.363	4.156	11111	1.10	39057.6265	44444
7565	4.975	-0.090	-0.712	-0.027	-0.100	11111	1.02	38209.8611	44433
7565	4.960	-0.148	-0.670	-0.035	-0.180	11111	1.02	38226.8275	44444
7565	4.934	-0.139	-0.665	0.017	-0.148	11111	1.15	38304.6938	12221
7582	3.891	0.900	0.520	0.676	0.468	11111	1.26	38192.9202	44443
7582	3.839	0.878	0.518	0.681	0.495	11111	1.38	38676.6965	44444
7582	3.739	0.886	0.524	0.558	0.486	11111	1.28	38678.6198	44444
7589	5.629	-0.089	-0.978	0.099	-0.115	11111	1.25	37594.6511	22222
7589	5.630	-0.099	-0.974	0.096	-0.120	11111	1.10	37595.5948	22222
7592	4.571	-0.073	-0.121	0.022	-0.036	11111	1.02	38302.5951	22221
7592	4.581	-0.052	-0.134	0.033	-0.048	11111	1.11	38655.7211	44444
7595	4.662	1.067	0.879	0.760	0.558	11111	1.10	38302.6030	22221
7595	4.700	1.037	0.902	0.769	0.566	11111	1.24	38655.7279	44444
7597	4.729	0.772	0.291	0.600	0.338	11111	1.94	38202.9039	44444
7597	4.682	0.720	0.354	0.589	0.399	11111	2.04	38671.6471	44444
7597	4.689	0.759	0.314	0.579	0.381	11111	2.01	38674.6344	44444
7602	3.723	0.851	0.472	0.811	0.511	11111	1.10	37563.6028	22222
7602	3.715	0.852	0.473	0.713	0.472	11111	1.12	37563.6496	22222
7602	3.699	0.850	0.477	0.524	0.583	11111	1.13	37565.5727	22222
7602	3.746	0.874	0.493	0.596	0.523	11111	2.64	38165.8002	44444
7602	3.710	0.855	0.480	0.672	0.473	11111	1.11	38165.9832	44444
7602	3.732	0.859	0.471	0.705	0.466	11111	1.13	38176.9307	44444
7602	3.733	0.868	0.473	0.648	0.472	11111	1.13	38180.9178	44444
7602	3.717	0.870	0.479	0.688	0.491	11111	2.33	38187.7505	44443
7602	3.725	0.868	0.478	0.687	0.472	11111	1.11	38187.9228	44443
7602	3.723	0.857	0.472	0.738	0.479	11111	1.95	38188.7664	44443
7602	3.724	0.867	0.466	0.681	0.471	11111	1.12	38188.9134	44443
7602	3.735	0.824	0.501	0.753	0.482	11111	2.23	38189.7493	44443
7602	3.731	0.866	0.472	0.723	0.463	11111	1.11	38189.9185	44443
7602	3.730	0.847	0.519	0.636	0.499	11111	2.36	38190.7411	44443
7602	3.709	0.855	0.486	0.712	0.487	11111	2.15	38199.7255	44443
7602	3.730	0.870	0.480	0.617	0.469	11111	1.11	38199.8984	44443
7602	3.700	0.857	0.474	0.660	0.510	11111	2.22	38209.6951	44433
7602	3.780	0.819	0.529	0.599	0.545	11111	1.13	38209.8391	44433
7602	3.708	0.845	0.487	0.660	0.510	11111	2.19	38211.6911	44443
7602	3.716	0.860	0.468	0.642	0.473	11111	1.11	38223.8310	44444
7602	3.729	0.857	0.489	0.633	0.511	11111	1.11	38225.8196	44444
7602	3.752	0.866	0.476	0.660	0.510	11111	1.11	38227.8157	44444
7602	3.721	0.855	0.481	0.662	0.493	11111	1.16	38269.7505	44443
7602	3.668	0.847	0.470	0.607	0.484	11111	1.17	38270.7504	44443
7602	3.724	0.869	0.452	0.657	0.495	11111	2.64	38270.8889	44443
7602		0.838	0.452			01100	1.11	38279.6774	44433
7602	3.706	0.882	0.508	0.660	0.510	11111	1.11	38279.6853	44433
7602	3.661	0.878	0.485	0.631	0.490	11111	1.12	38302.6355	22221
7602	3.705	0.872	0.473	0.642	0.477	11111	1.12	38305.6225	44444
7602	3.688	0.877	0.490	0.639	0.463	11111	1.11	38306.5981	44444
7604	4.423	1.454	1.559	0.966	0.736	11111	1.98	38302.6277	22221
7604	4.510	1.428	1.580	1.033	0.724	11111	2.14	38671.6558	44444
7604	4.580	1.486	1.557	1.049	0.738	11111	2.01	38678.6114	44444
7613	4.968	-0.099	-0.523	0.014	-0.114	11111	1.01	38203.8997	44444
7613	4.930	-0.083	-0.522	0.005	-0.078	11111	1.01	38302.6110	22221
7615	3.913	1.027	0.856	0.782	0.534	11111	1.00	38165.9898	44444
7615	3.935	1.034	0.883	0.704	0.496	11111	1.01	38203.9052	44444
7615	3.921	1.019	0.890	0.664	0.519	11111	1.07	38223.9005	44444
7615	3.932	1.023	0.922	0.801	0.523	11111	1.09	38304.6855	12221

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
7618	4.782	0.864	0.522	0.616	0.454	11111	1.96	38302.6434	22221
7618	4.853	0.920	0.555	0.684	0.479	11111	1.93	38309.6108	11111
7619	4.928	0.118	0.062	0.119	0.041	11111	1.07	38203.9113	44444
7619	4.942	0.130	0.033	0.058	0.073	11111	1.14	38223.9089	44444
7619	4.885	0.121	0.085	0.136	0.060	11111	1.22	38674.7057	44444
7635	3.431	1.585	1.940	1.184	0.945	11111	1.03	38302.6193	22221
7635	3.488	1.562	1.926	1.226	0.899	11111	1.05	38310.6340	44444
7635	3.496	1.562	1.929	1.189	0.922	11111	1.33	38674.7196	44444
7650	4.612	1.649	1.782	1.930	1.590	11111	2.01	38194.9183	44443
7650	4.530	1.622	1.825	1.836	1.460	11111	2.03	38202.9122	44444
7650	4.638	1.668	1.830	1.854	1.613	11111	2.01	38227.8262	44444
7653	4.665	0.184	0.107	0.171	0.089	11111	1.00	38194.9107	44443
7653	4.642	0.172	0.185	0.173	0.110	11111	1.02	38302.6515	22221
7653	4.655	0.188	0.176	0.140	0.067	11111	1.00	38553.9388	44444
7678	5.650	0.550	-0.449	0.527	0.402	11111	1.03	38288.7004	12221
7678	5.643	0.543	-0.460	0.510	0.432	11111	1.14	38637.7974	44444
7685	4.481	1.324	1.506	0.963	0.608	11111	1.24	38201.9336	44421
7685	4.495	1.298	1.479	0.942	0.631	11111	1.23	38216.8521	44444
7685	4.525	1.309	1.508	0.896	0.707	11111	1.23	38225.8437	44444
7708	4.931	-0.126	-0.752	0.062	-0.113	11111	1.00	38186.9436	44443
7708	4.944	-0.101	-0.769	0.024	-0.141	11111	1.03	38201.9415	44421
7708	4.905	-0.130	-0.765	0.024	-0.098	11111	1.02	38225.8653	44444
7708	4.892	-0.109	-0.825	0.005	-0.093	11111	1.01	38305.6337	44444
7710	3.208	-0.065	-0.112	-0.087	-0.056	11111	1.17	38194.9249	44443
7710	3.247	-0.042	-0.119	-0.057	-0.076	11111	1.23	38201.9491	44421
7710	3.169	-0.093	-0.140	-0.062	-0.024	11111	1.17	38227.8349	44444
7724	4.948	0.086	0.013	0.125	0.004	11111	1.05	38187.9294	44443
7724	4.957	0.113	-0.010	0.074	-0.004	11111	1.05	38204.8830	44444
7724	4.939	0.060	0.026	0.091	0.016	11111	1.07	38225.8718	44444
7730	4.855	0.107	0.167	0.168	0.062	11111	1.03	38186.9517	44443
7730	4.806	0.120	0.115	0.258	-0.011	11111	1.03	38206.8913	44444
7730	4.811	0.080	0.144	0.148	0.102	11111	1.03	38225.8501	44444
7735	3.832	1.256	0.430	0.947	0.747	11111	1.03	38186.9579	44443
7735	3.759	1.322	0.385	0.993	0.699	11111	1.03	38206.8978	44444
7735	3.798	1.272	0.445	0.971	0.843	11111	1.04	38225.8571	44444
7736	5.022	0.058	0.001	0.196	0.030	11111	1.01	38206.9069	44444
7736	4.953	0.171	-0.011	0.206	0.100	11111	1.00	38226.8361	44444
7736	4.985	0.126	-0.001	0.205	0.066	11111	2.56	38397.6013	44444
7739	4.786	-0.208	-0.692	-0.078	-0.214	11111	1.02	38206.9147	44444
7739	4.746	-0.180	-0.752	-0.081	-0.202	11111	1.01	38270.7176	44443
7739	4.779	-0.164	-0.739	-0.072	-0.178	11111	1.01	38293.6535	44444
7740	4.289	0.115	0.085	0.070	0.054	11111	**1.09**	**38199.**9128	44443
7740	4.332	0.097	0.025	0.081	0.085	**11111**	**1.09**	**38209.**8760	44433
7740	4.273	0.099	0.097	0.119	0.042	**11111**	**1.10**	38270.7240	44443
7740	4.288	0.125	0.100	0.155	0.075	11111	1.10	38293.6441	44444
7740	4.331	0.121	0.100	0.172	0.061	11111	1.10	38305.6423	44444
7741	5.145	1.044	0.716	0.701	0.493	11111	1.26	38668.7403	44444
7741	5.155	1.047	0.732	0.747	0.479	11111	1.46	38670.7658	44444
7741	5.161	1.036	0.687	0.757	0.485	11111	1.06	38681.6445	44444
7744	4.511	1.287			0.664	11001	1.00	38205.8942	22222
7744	4.563	1.218	1.148	1.004	0.728	11111	1.00	38209.8833	44433
7744	4.495	1.263	1.095	0.931	0.695	11111	1.01	38270.7301	44443
7744	4.502	1.255	1.104	0.957	0.743	11111	1.00	38293.6622	44444
7746	6.085	1.030	0.897	0.729	0.516	11111	1.05	38993.6950	22222
7746	6.098	1.045	0.900	0.755	0.536	11111	1.02	38995.7110	44444
7746	6.089	1.019	0.927	0.776	0.515	11111	1.02	38996.7277	22222
7746	6.139	1.084	0.928	0.809	0.539	11111	1.02	38997.7284	44444
7747	4.247	1.092	0.804	0.771	0.533	11111	1.42	38192.9406	44443
7747	4.269	1.076	0.804	0.802	0.523	11111	1.41	38200.9081	44444
7750	4.392	-0.042	-0.085	0.014	-0.050	11111	1.42	38186.9657	44443
7750	4.336	-0.050	-0.126	-0.117	-0.054	11111	1.42	38223.8508	44444
7750	4.431	-0.047	-0.073	0.037	-0.069	11111	1.43	38558.9642	44444
7751	3.992	1.536	1.038	1.149	0.913	11111	1.04	38187.9358	44443
7751	3.988	1.528	1.029	1.254	0.932	11111	1.04	38200.8940	44444
7751	3.961	1.507	1.035	1.193	0.923	11111	1.04	38224.8328	44444
7754	3.581	0.966	0.685	0.663	0.475	11111	1.43	38192.9478	44443
7754	3.584	0.931	0.692	0.712	0.473	11111	1.42	38200.9023	44444
7763	4.802	0.415	-0.567	0.543	0.263	11111	1.02	37835.9228	22222
7763	4.805	0.403	-0.588	0.545	0.252	11111	1.01	37836.8850	22222
7767	5.882	0.060	-0.819	0.150	-0.021	11111	1.02	37565.6133	22222
7767	5.838	0.102	-0.745	0.168	0.122	11111	1.28	37570.7445	22222
7767	5.836	0.100	-0.774	0.090	-0.040	11100	1.19	37590.6696	22222
7767	5.836	0.095	-0.764	0.192	0.006	11111	1.25	37590.6838	22222
7767	5.860	0.114	-0.768	0.172	-0.005	11111	1.15	37808.8665	22222
7767	5.838	0.106	-0.772	0.176	0.015	11111	1.02	37835.8757	22222
7767	5.805	0.103	-0.791	0.182	0.021	11111	1.05	37836.8348	22222
7767	5.803	0.101	-0.792	0.156	0.009	11111	1.03	37836.9192	22222
7767	5.859	0.126	-0.783	0.026	0.037	11111	1.06	38143.0047	44444
7767	5.874	0.132	-0.781	0.097	0.008	11111	1.08	38147.9796	44444
7770	5.166	0.673	0.469	0.550	0.423	11111	1.24	38668.7496	44444
7770	5.158	0.634	0.476	0.580	0.421	11111	1.30	38670.7556	44444
7770	5.179	0.635	0.471	0.579	0.417	11111	1.24	38674.7333	44444
7773	4.761	-0.023	-0.116	-0.023	-0.046	11111	1.44	38192.9548	44443
7773	4.765	-0.048	-0.121	0.069	-0.075	11111	1.42	38200.9144	44444
7773	4.757	-0.044	-0.086	-0.006	-0.070	11111	1.43	38560.9074	22222

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
7776	3.078	0.822	0.335	0.555	0.490	11111	1.51	38192.9615	44443
7776	3.085	0.759	0.254			11100	1.48	38216.8582	44444
7776	3.089	0.777	0.239	0.552	0.503	11111	1.47	38216.8663	44444
7781	5.720	0.106	0.006	0.103	0.059	11111	1.10	38993.7034	22222
7781	5.723	0.114	0.012	0.101	0.069	11111	1.09	38995.7200	44444
7781	5.825	0.167	0.047	0.180	0.067	11111	1.09	38997.7438	44444
7784	6.190	0.046	0.036	0.043	0.025	11111	1.02	38993.7124	22222
7784	6.181	0.075	0.004	0.022	0.019	11111	1.01	38995.7279	44444
7784	6.275	0.088	0.068	0.100	0.065	11111	1.01	38997.7362	44444
7796	2.233	0.660	0.559	0.467	0.343	11111	1.01	38187.9416	44443
7796	2.232	0.674	0.529	0.514	0.332	11111	1.02	38298.6755	22222
7806	4.453	1.348	1.479	1.010	0.668	11111	1.00	38194.9319	44443
7806	4.471	0.790	-0.964	1.010	0.669	10011	1.02	38298.6852	22222
7806	4.460	1.350	1.547	1.007	0.668	11111	1.00	38556.9275	44444
7806	4.443	1.331	1.536	1.006	0.677	11111	1.41	38670.7754	44444
7822				0.319	0.175	00011	1.66	38298.6963	22222
7822	4.814	0.386	0.048	0.365	0.225	11111	1.57	38307.6335	44444
7822	4.795	0.356	0.050	0.366	0.178	11111	1.57	38560.9145	22222
7834	4.013	0.419	0.268	0.389	0.214	11111	1.01	38186.9739	44443
7834	4.021	0.405	0.292	0.329	0.239	11111	1.00	38216.8758	44444
7834	4.021	0.382	0.322	0.366	0.240	11111	1.00	38555.9318	44444
7844	4.977	-0.076	-0.635	0.059	-0.092	11111	1.04	38187.9477	44443
7844	4.901	-0.095	-0.655	-0.014	-0.126	11111	1.04	38270.7362	44443
7844	4.974	-0.093	-0.576	0.042	-0.082	11111	2.55	38399.6267	21211
7847	6.211	0.991	0.750	0.883	0.656	11111	1.06	37565.7015	22222
7847	6.194	1.002	0.740	0.821	0.720	11111	1.24	38668.7594	44444
7850	4.243	0.210	0.159	0.185	0.063	11111	1.16	38187.9540	44443
7850	4.388	0.172	0.053	0.196	-0.030	11111	1.16	38223.8582	44444
7850	4.211	0.192	0.173	0.154	0.080	11111	1.16	38555.9388	44444
7850	4.203	0.206	0.149	0.173	0.112	11111	1.24	38637.8081	44444
7852	4.045	-0.116	-0.478	-0.008	-0.095	11111	1.07	38187.9603	44443
7852	4.040	-0.120	-0.479	-0.022	-0.124	11111	1.07	38200.9219	44444
7866	4.609	1.609	0.744	1.283	0.953	11111	1.00	38199.9288	44443
7866	4.650	1.607	0.767	1.319	1.022	11111	1.00	38227.8451	44444
7871	4.672	0.115	0.091	0.114	0.039	11111	1.05	38200.9281	44444
7871	4.699	0.113	0.125	0.150	0.063	11111	1.13	38307.6934	44444
7882	3.636	0.452	0.069	0.392	0.223	11111	1.05	38200.9339	44444
7882	3.602	0.415			0.244	11001	1.06	38223.8742	44444
7882	3.641	0.441	0.096	0.403	0.254	11111	1.14	38307.6993	44444
7884	4.340	0.935	0.694	0.637	0.423	11111	1.23	38201.9562	44421
7884	4.311	0.948	0.668	0.685	0.455	11111	1.28	38298.7110	22222
7884	4.330	1.006	0.690	0.683	0.502	11111	1.20	38309.6189	11111
7891	4.835	-0.051	-0.094	0.057	-0.044	11111	1.04	38300.6179	43433
7891	4.818	0.025	-0.038	0.013	-0.012	11111	1.02	38309.6250	11111
7891	4.811	-0.037	-0.073	0.011	-0.061	11111	1.02	38555.9467	44444
7906	3.781	-0.065	-0.189	0.048	-0.057	11111	1.09	37563.7042	22222
7906	3.793	-0.055	-0.194	0.010	0.007	11111	1.04	37570.6436	22222
7906	3.783	-0.062	-0.181	0.098	-0.051	11111	1.33	37590.6918	22222
7906	3.769	-0.044	-0.201	-0.	-0.048	11111	1.09	38176.9400	44444
7906	3.793	-0.057	-0.202	-0.018	-0.047	11111	1.05	38180.9551	44444
7906	3.783	-0.037	-0.195	0.029	-0.032	11111	1.04	38187.9664	44443
7906	3.770	-0.060	-0.220	0.050	-0.030	11111	1.34	38210.7783	11111
7906	3.755	-0.070	-0.209	-0.092	-0.033	11111	1.05	38223.8826	44444
7906	3.792	-0.048	-0.206	0.044	-0.042	11111	1.05	38228.8622	44444
7906	3.758	-0.086	-0.165	0.007	-0.047	11111	1.05	38269.7441	44443
7906	3.743	-0.059	-0.215	0.085	-0.076	11111	1.05	38270.7567	44443
7906	3.772	-0.046	-0.191	0.095	-0.038	11111	1.04	38293.6720	44444
7906	3.758	-0.063	-0.189	-0.	-0.031	11111	1.04	38300.6494	43433
7906	3.754	-0.053	-0.184	0.002	-0.042	11111	1.07	38302.6829	22221
7906	3.773	-0.022	-0.263	-0.039	-0.028	11111	3.62	38397.6096	44444
7906	3.803	-0.042	-0.222	0.054	-0.038	11111	2.61	38399.5823	21211
7924	1.273	0.102	-0.178	0.084	0.101	11111	1.03	38187.9719	44443
7924	1.286	0.085	-0.188	0.080	0.078	11111	1.03	38203.9182	44444
7924	1.218	0.094	-0.218	0.128	0.124	11111	1.05	38269.6876	44443
7924	1.214	0.101	-0.253	0.123	0.107	11111	1.03	38290.6956	44444
7924	1.243	0.058	-0.181	0.130	0.101	11111	1.13	38315.6983	44444
7928	4.463	0.332	0.082	0.217	0.156	11111	1.06	38204.8895	44444
7928	4.402	0.284	0.092	0.266	0.156	11111	1.05	38270.7428	44443
7928	4.453	0.338	0.138	0.304	0.203	11111	1.05	38309.6315	11111
7936	4.139	0.446	0.125	0.344	0.190	11111	1.89	38204.8967	44444
7936	4.112	0.436	-0.022	0.347	0.207	11111	1.87	38284.6956	44444
7936	4.152	0.407	0.005	0.388	0.205	11111	1.88	38560.9290	22222
7939	4.896	1.210	1.170	0.852	0.594	11111	1.08	38338.6158	22221
7939	4.893	1.192	1.182	0.841	0.567	11111	1.09	38339.6175	44444
7942	4.225	1.050	0.865	0.783	0.524	11111	1.00	38189.9533	44443
7942	4.207	1.062	0.892	0.734	0.534	11111	1.00	38555.9533	44444
7942	4.249	1.064	0.874	0.806	0.518	11111	1.01	38556.9343	44444
7947	3.943	0.831	0.000	0.682	0.501	11011	1.10	38300.6010	43433
7947	3.882	0.833	0.520	0.668	0.451	11111	1.73	38670.8025	44444
7947	3.905	0.880	0.504	0.675	0.485	11111	1.32	38671.7534	44444
7949	2.478	1.037	0.902	0.714	0.522	11111	1.00	38189.9597	44443
7949	2.444	1.032	0.860	0.707	0.613	11111	1.01	38290.7162	44444
7949	2.463	1.022	0.861	0.743	0.558	11111	1.21	38315.7288	44444
7950	3.773	0.002	0.020	0.073	-0.004	11111	1.41	38176.9478	44444
7950	3.777	0.002	0.014	0.067	-0.005	11111	1.39	38180.9467	44444
7950	3.772	-0.019	0.011	0.068	0.006	11111	1.85	38210.7879	11111

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
7951	4.450	1.672	1.895	1.440	1.269	11111	1.27	38199.9441	44443
7951	4.446	1.655	1.930	1.513	1.364	11111	1.26	38284.7026	44444
7951	4.415	1.685	1.950	1.470	1.281	11111	1.26	38557.9407	44444
7955	4.541	0.540	0.092	0.477	0.263	11111	1.10	38194.9389	44443
7955	4.505	0.531	0.109	0.467	0.296	11111	1.10	38302.6604	22221
7957	3.443	0.919	0.603	0.693	0.476	11111	1.15	38194.9457	44443
7957	3.425	0.918	0.585	0.640	0.517	11111	1.15	38227.8538	44444
7963	4.549	-0.113	-0.503	-0.035	-0.121	11111	1.00	38194.9541	44443
7963	4.523	-0.112	0.	-0.045	-0.126	11011	1.01	38224.8486	44444
7963	4.573	-0.121	-0.488	-0.018	-0.085	11111	1.75	38400.5717	44444
7977	4.874	0.407	-0.455	0.438	0.281	11111	1.10	38298.7383	22222
7977	4.869	0.441	-0.433	0.456	0.335	11111	1.03	38309.6380	11111
7980	4.058	1.550	1.807	1.226	0.915	11111	2.47	38298.7487	22222
7980	4.178	1.642	1.791	1.224	0.968	11111	1.99	38300.6376	43433
7980	4.148	1.644	1.945	1.285	0.932	11111	1.98	38678.6393	44444
7990	4.769	0.313	0.074	0.311	0.163	11111	1.41	38300.6097	43433
7990	4.701	0.326	0.102	0.260	0.132	11111	1.34	38557.9477	44444
7990	4.732	0.309	0.122	0.268	0.135	11111	1.34	38560.9369	22222
7995	4.578	0.821	0.481	0.683	0.463	11111	1.01	38284.7102	44444
7995	4.633	0.808	0.450	0.682	0.453	11111	1.02	38300.6253	43433
8001	4.750	-0.137	-0.578	-0.062	-0.142	11111	1.15	38298.7620	22222
8001	4.781	-0.144	-0.584	-0.071	-0.128	11111	1.03	38310.6510	44444
8020	5.693	0.464	-0.327	0.475	0.397	11111	1.74	37673.5547	22222
8028	3.951	0.033	-0.016	-0.001	0.004	11111	1.02	38204.9050	44444
8028	3.903	0.007	0.010	0.050	0.005	11111	1.33	38298.8089	22222
8028	3.958	0.002	0.027	0.087	-0.001	11111	1.02	38556.9423	44444
8047	4.859	-0.008	-0.942	0.101	-0.043	11111	1.04	38204.9111	44444
8047	4.815	-0.075	-0.963	0.105	-0.004	11111	1.04	38227.8622	44444
8047	4.646	-0.028	-0.906	0.137	-0.004	11111	1.21	38668.7692	44444
8047	4.654	-0.036	-0.964	0.177	-0.004	11111	1.05	38699.6109	22222
8060	4.847	0.196	0.054	0.156	0.062	11111	1.64	38204.9178	44444
8060	4.837	0.179	0.047	0.144	0.096	11111	1.64	38293.6802	44444
8060	4.826	0.150	0.076	0.170	0.046	11111	1.82	38304.5930	12221
8075	4.071	-0.017			-0.016	11001	1.55	38293.6872	44444
8075	4.061	0.006	0.027	-0.015	-0.010	11111	1.55	38299.6719	44422
8075	4.066	-0.028	-0.004	0.042	-0.048	11111	1.67	38304.6012	12221
8079	3.706	1.632	1.807	1.172	0.883	11111	1.02	38224.8767	44444
8079	3.687	1.648	1.795	1.227	0.919	11111	1.02	38302.6682	22221
8079		1.669			0.905	01001	1.05	38304.6097	12221
8080	4.502	1.556	1.866	1.289	0.976	11111	1.86	38299.6807	44422
8080	4.464	1.622	1.922	1.240	0.999	11111	1.94	38304.6205	12221
8080	4.512	1.609	1.944	1.313	0.949	11111	2.04	38669.7144	44444
8085	5.234	1.158	1.119	1.015	0.642	11111	1.24	38327.7180	22222
8085	5.289	1.133	1.099	1.062	0.654	11111	1.02	38329.6257	44444
8085	5.238	1.162	1.098	1.006	0.634	11111	1.02	38339.5979	44444
8085	5.262	1.165	1.112	1.009	0.706	11111	1.12	38637.8359	44444
8085	5.230	1.181	1.105	0.990	0.687	11111	1.21	38674.7615	44444
8085	5.206	1.161	1.122	1.061	0.606	11111	1.04	38681.6744	44444
8086	5.998	1.336	1.247	1.128	0.823	11111	1.44	38327.7524	22222
8086	6.037	1.356	1.238	1.163	0.822	11111	1.04	38329.6365	44444
8086	5.985	1.340	1.254	1.153	0.766	11111	1.03	38339.6064	44444
8086	6.107	1.357	1.220	1.205	0.868	11111	1.09	38637.8219	44444
8086	6.060	1.356	1.211	1.187	0.833	11111	1.30	38670.7906	44444
8086	6.069	1.387	1.224	1.168	0.860	11111	1.19	38671.7635	44444
8089	4.565	1.561	1.736	1.172	0.794	11111	1.04	38295.6680	21122
8089	4.519	1.540	1.684			11100	1.04	38299.6912	44422
8089	4.587	1.569	1.781	1.177	0.840	11111	1.04	38304.6317	12221
8093	4.540	0.950	0.653	0.686	0.472	11111	1.39	38300.6593	43433
8093	4.501	0.941	0.666	0.689	0.461	11111	1.39	38311.6538	44444
8097	4.669	0.265	0.084	0.322	0.100	11111	1.08	38295.6846	21122
8097	4.689	0.261	0.128	0.203	0.107	11111	1.09	38310.6582	44444
8097	0.	0.280	0.	0.	0.	01000	2.40	38399.5872	21211
8097	4.722	0.296	-0.004	0.268	0.151	11111	2.58	38399.5932	21211
8097	4.650	0.244	0.075	0.221	0.101	11111	1.16	38669.7238	44444
8115	3.212	0.989	0.739	0.715	0.469	11111	1.00	38200.9496	44444
8115	3.169	1.008	0.779	0.678	0.491	11111	1.00	38302.6753	22221
8115	3.218	0.972	0.772	0.687	0.502	11111	2.97	38397.6433	44444
8123	4.452	0.527	-0.010	0.423	0.267	11111	1.08	38224.8851	44444
8123	4.470	0.504	-0.001	0.438	0.286	11111	1.09	38302.6898	22221
8130					0.258	00001	1.01	38299.7014	44422
8130	3.732	0.402	0.029	0.355	0.222	11111	1.01	38311.6602	44444
8130	3.733	0.405	0.005	0.346	0.233	11111	2.75	38397.6513	44444
8131	3.904	0.521	0.293	0.452	0.369	11111	1.15	38299.7106	44422
8131	3.901	0.525	0.304	0.432	0.335	11111	1.13	38305.6653	44444
8143	4.203	0.149	-0.407	0.120	0.150	11111	1.01	38227.8787	44444
8143	4.259	0.103	-0.367	0.173	0.136	11111	1.04	38269.7135	44443
8146	4.441	-0.098	-0.807	0.057	-0.079	11111	1.00	38194.9698	44443
8146	4.434	-0.097	-0.817	0.083	-0.088	11111	1.00	38200.9558	44444
8146	4.395	-0.096	-0.858	-0.000	-0.060	11111	1.00	38227.8863	44444
8162	2.500	0.163	0.125	0.217	0.116	11111	1.17	38269.7294	44443
8162	2.434	0.226	0.122	0.194	0.120	11111	1.16	38302.6985	22221
8162	2.466	0.225	0.113	0.205	0.113	11111	1.16	38311.6670	44444

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B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8167	4.269	0.897	0.565	0.625	0.482	11111	1.60	38299.7220	44422
8167	4.267	0.916	0.551	0.615	0.481	11111	1.54	38305.6724	44444
8170	6.387	0.518	-0.007	0.498	0.334	11111	1.06	38993.7212	22222
8170	6.368	0.541	-0.033	0.438	0.332	11111	1.03	38995.7370	44444
8170	6.465	0.549	0.048	0.491	0.348	11111	1.01	38997.7698	44444
8173	4.096	1.120	1.038	0.824	0.535	11111	1.03	38192.9774	44443
8173	4.112	1.128	1.034	0.771	0.553	11111	1.03	38203.9604	44444
8173	4.097	1.098	1.060	0.090	-0.040	11100	1.03	38269.7574	44443
8173	4.077	1.121	1.038	0.759	0.556	11111	1.05	38270.7997	44443
8204	3.739	0.990	0.609	0.647	0.396	11111	1.74	38224.8920	44444
8204	3.747	0.988	0.603	0.641	0.445	11111	1.74	38305.6786	44444
8204	3.721	1.012	0.586	0.631	0.433	11111	1.79	38311.6835	44444
8207	5.800	1.417	1.791	1.127	0.744	11111	1.69	38993.7823	22222
8207	5.740	1.414	1.731	1.069	0.747	11111	1.69	38995.7846	44444
8207	5.787	1.463	1.717	1.076	0.759	11111	1.71	38997.7984	44444
8213	4.498	0.909	0.608	0.649	0.462	11111	1.73	38305.6866	44444
8213	4.556	0.926	0.623	0.711	0.486	11111	1.74	38678.6723	44444
8213	4.502	0.905	0.574	0.681	0.462	11111	1.85	38681.6943	44444
8213	4.497	0.914	0.579	0.676	0.475	11111	1.73	38700.6051	44444
8225	4.671	1.613	1.890	1.201	1.119	11111	1.05	38269.7213	44443
8225	4.486	1.620	1.981	1.301	1.057	11111	1.02	38302.7061	22221
8225	4.498	1.614	1.876	1.263	1.041	11111	3.94	38397.6617	44444
8232	2.859	0.853	0.549	0.630	0.424	11111	1.30	38269.7376	44443
8232	2.843	0.822	0.610	0.590	0.397	11111	1.30	38302.7143	22221
8238	3.216	-0.210	-0.962	-0.119	-0.208	11111	1.29	38299.7328	44422
8238	3.250	-0.211	-0.949	-0.075	-0.234	11111	1.27	38309.6444	11111
8252	4.045	0.881	0.536	0.707	0.497	11111	1.03	38300.6696	43433
8252	4.031	0.919	0.603	0.705	0.510	11111	1.03	38309.6586	11111
8252	3.989	0.892	0.546	-0.225	1.380	11100	1.23	38674.7848	44444
8255	4.876	1.089	1.013	0.799	0.525	11111	1.01	38199.9610	44443
8255	4.940	1.085		0.825	0.563	11011	1.01	38300.6805	43433
8255	4.891	1.109	0.983	0.833	0.536	11111	1.02	38699.6249	22222
8260	4.684	-0.173	0.000	-0.001	-0.086	11011	1.62	38225.8928	44444
8260	4.669	-0.135	-0.574	-0.094	-0.085	11111	1.62	38309.6650	11111
8260	4.820	-0.174	-0.583	-0.032	-0.065	11111	1.69	38681.6845	44444
8262	5.676	1.557	1.194	2.477	2.209	11111	1.33	38377.6220	44444
8262	5.394	1.582	1.216	2.331	2.164	11111	1.43	38391.6005	44444
8262	5.367	1.602	1.266	2.381	2.107	11111	1.79	38396.6286	44444
8263	6.261	0.053	0.055	0.147	0.017	11111	1.19	38993.7723	22222
8263	6.190	0.055	0.055	0.031	0.019	11111	1.18	38995.7747	44444
8263	6.284	0.094	0.061	0.088	0.005	11111	1.20	38997.8153	44444
8264	4.697	0.161	0.097	0.181	0.093	11111	1.43	38300.7527	43433
8264	4.691	0.215	0.153	0.166	0.107	11111	1.31	38309.6713	11111
8278	3.655	0.309	0.202	0.214	0.121	11111	1.58	38302.7226	22221
8278	3.680	0.321	0.228	0.245	0.136	11111	1.54	38310.6810	44444
8279	4.733	0.308	-0.565	0.301	0.173	11111	1.15	38199.9683	44443
8279	4.764	0.279	-0.532	0.321	0.187	11111	1.23	38303.5957	12221
8288	4.762	0.870	0.490	0.645	0.516	11111	1.82	38300.7623	43433
8288		0.891				01000	1.62	38310.6851	44444
8288				0.677	0.487	00011	1.62	38310.6893	44444
8288	4.723	0.868	0.529	0.684	0.483	11111	1.64	38699.6328	22222
8288	4.701	0.893	0.511	0.663	0.476	11111	1.64	38700.6288	44444
8291	6.089	0.061	0.074	0.114	0.026	11111	1.07	38993.7299	22222
8291	6.059	0.081	0.088	3.810	0.050	11101	1.04	38995.7450	44444
8291	6.182	0.101	0.110	0.130	0.041	11111	1.01	38997.7777	44444
8297	5.568	2.447	4.649	1.738	1.349	11111	1.25	38348.6855	23333
8297	5.950	2.458	4.374	1.847	1.363	11111	1.04	38368.5625	44444
8297	5.998	2.488	4.804	1.840	1.369	11111	1.15	38380.5739	44444
8297	6.044	2.496	4.470	1.860	1.380	11111	1.26	38381.5983	44444
8297	6.055	2.597	4.763	1.872	1.403	11111	1.07	38565.8990	22222
8297	6.127	2.577	4.824	1.956	1.375	11111	1.10	38568.8774	22222
8297	6.190	2.806	4.237	1.973	1.442	11111	1.50	38722.7013	22222
8301	4.685	-0.131	-0.661	0.012	-0.152	11111	1.06	38228.8946	44444
8301	4.649	-0.112	-0.765	-0.044	-0.114	11111	1.06	38290.7279	44444
8301	4.667	-0.117	-0.635	-0.029	-0.119	11111	1.14	38303.6037	12221
8308	2.369	1.536	1.691	1.031	0.773	11111	1.20	38303.6114	12221
8308	2.392	1.515	1.677	1.068	0.745	11111	1.10	38310.6954	44444
8309	4.535	0.491	0.002	0.323	0.255	11111	1.00	38203.9687	44444
8309	4.511	0.465	0.021	0.407	0.311	11111	1.00	38225.8987	44444
8309	4.475	0.502	0.008	0.406	0.289	11111	1.07	38303.6187	12221
8313	4.311	1.188	0.983	0.802	0.581	11111	1.10	38303.6258	12221
8313	4.308	1.169	0.938	0.788	0.541	11111	1.05	38311.6907	44444
8315	4.130	0.441	-0.003	0.555	0.288	11101	1.01	38227.9020	44444
8315	4.118	0.432	0.045	0.367	0.240	11111	1.01	38291.7220	34421
8315	4.107	0.452	0.052	0.372	0.226	11111	1.05	38303.6334	12221
8316	4.221	2.259	2.421	2.133	1.790	11111	1.11	38284.7396	44444
8316	4.150	2.282	2.497	2.110	1.731	11111	1.13	38310.7072	44444
8316	4.126	2.255	2.432	2.085	1.744	11111	1.21	38315.7459	44444
8316	3.551	2.398	2.633	1.966	1.423	11111	1.22	38579.8348	22222
8316	3.734	2.383	2.545	2.022	1.537	11111	1.13	38699.6402	22222
8316	3.733	2.382	2.575	2.018	1.547	11111	1.14	38700.6454	44444
8317	4.538	1.108	1.080	0.844	0.511	11111	1.28	38200.9634	44444
8317	4.603	1.121	1.089	0.832	0.566	11111	1.28	38227.8937	44444
8317	4.561	1.086	1.094	0.833	0.549	11111	1.28	38284.7494	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8322	2.814	0.302	0.112	0.242	0.157	11111	1.51	38310.6642	44444
8322	2.807	0.276	0.100	0.237	0.168	11111	1.65	38328.6788	44444
8327	5.928	0.311	-0.651	0.312	0.160	11111	1.20	37835.9049	22222
8327	5.912	0.311	-0.622	0.243	0.178	11111	1.25	37836.8672	22222
8334	4.286	0.519	0.128	0.489	0.447	11111	1.17	37835.9134	22222
8334	4.287	0.523	0.116	0.498	0.437	11111	1.22	37836.8752	22222
8334	4.332	0.495	0.130	0.535	0.437	11111	1.14	38305.6952	44444
8334	4.270	0.516	0.120	0.488	0.421	11111	1.16	38311.7094	44444
8335	4.199	-0.087	-0.722	-0.114	-0.147	11111	1.04	38204.9613	44444
8335	4.243	-0.151	-0.699	-0.045	-0.113	11111	1.04	38225.9045	44444
8335	4.263	-0.122	-0.729	0.020	-0.118	11111	1.07	38699.6473	22222
8371	5.798	0.733	-0.022	0.642	0.606	11111	1.18	38668.7823	44444
8371	5.785	0.715	-0.043	0.714	0.586	11111	1.30	38700.7354	44444
8371	5.833	0.684	-0.016	0.694	0.596	11111	1.09	38711.5822	44444
8383	4.970	1.710	0.329	1.729	1.363	11111	1.17	38224.9217	44444
8383	4.840	1.794	0.413	1.721	1.299	11111	1.18	38310.7134	44444
8383	4.892	1.759	0.402	1.652	1.368	11111	1.76	38396.6535	44444
8402	4.667	-0.064	-0.408	-0.030	-0.054	11111	1.22	38291.7301	34421
8402	4.724	-0.073	-0.395	0.022	-0.037	11111	1.24	38324.6709	44444
8402	4.678	-0.023	-0.444	-0.016	-0.041	11111	1.31	38638.8424	44444
8407	5.563	-0.044	-0.103	0.059	-0.039	11111	1.06	38993.7538	22222
8407	5.553	-0.017	-0.118	-0.019	-0.015	11111	1.05	38995.7564	44444
8407	5.661	0.039	-0.098	0.075	-0.006	11111	1.02	38997.7878	44444
8410	5.310	0.237	0.167	0.268	0.070	11111	1.20	38993.8021	22222
8410	5.247	0.225	0.141	0.132	0.103	11111	1.20	38995.8020	44444
8410	5.320	0.268	0.165	0.189	0.093	11111	1.27	38997.8542	44444
8413	4.830	1.450	1.783	1.068	0.767	11111	1.15	38324.6792	44444
8413	4.825	1.451	1.794	1.066	0.765	11111	1.19	38328.6877	44444
8413	4.843	1.468	1.806	1.065	0.767	11111	1.14	38340.6199	11111
8414	2.911	1.000	0.768	0.671	0.464	11111	1.24	38303.6496	12221
8414	2.934	0.963	0.814	0.656	0.473	11111	1.22	38324.6879	44444
8417	4.327	0.325	0.045	0.293	0.081	11111	1.18	38206.9561	44444
8417	4.268	0.330	0.085	0.329	0.169	11111	1.23	38328.6997	44444
8417	4.282	0.361	0.129	0.335	0.156	11111	1.19	38340.6290	11111
8418	4.248	-0.084	-0.278	-0.081	-0.084	11111	1.48	38306.7241	44444
8418	4.257	-0.061	-0.256	-0.015	-0.095	11111	1.50	38340.6382	11111
8421	6.139	1.591	1.767	1.641	1.554	11111	1.03	39056.6281	44444
8421	6.144	1.608	1.753	1.666	1.565	11111	1.03	39057.6465	44444
8421	6.118	1.599	1.788	1.695	1.550	11111	1.05	39058.5985	44444
8421	6.081	1.613	1.768	1.626	1.565	11111	1.04	39060.6046	44444
8428	5.119	0.088	-0.809	0.154	0.032	11111	1.24	38668.7934	44444
8428	5.086	0.076	-0.848	0.167	0.016	11111	1.40	38670.8433	44444
8428	5.118	0.059	-0.842	0.164	0.026	11111	1.21	38720.6319	44444
8430	3.768	0.439	-0.005	0.419	0.249	11111	1.01	38200.9710	44444
8430	3.747	0.458	0.025	0.380	0.240	11111	1.04	38340.6459	11111
8450	3.564	0.067	0.103	0.038	0.032	11111	1.35	38387.5736	44444
8450	3.539	0.068	0.111	0.064	0.052	11111	1.87	38398.5984	44444
8454	4.257	0.486	0.165	0.383	0.260	11111	1.00	38224.9290	44444
8454	4.288	0.478	0.189	0.399	0.275	11111	1.00	38270.8078	44443
8461	5.962	0.936	0.718	0.792	0.482	11111	1.05	38993.7927	22222
8461	5.904	0.959	0.717	0.663	0.494	11111	1.04	38995.8105	44444
8461	5.976	0.977	0.749	0.724	0.503	11111	1.13	38997.8726	44444
8465	3.334	1.531	1.736	1.063	0.839	11111	1.10	38290.7355	44444
8465	3.394	1.579	1.706	1.081	0.742	11111	1.25	38383.5955	44444
8465	3.341	1.556	1.678	-0.014	0.000	11100	1.39	38400.5887	44444
8465	3.362	1.551	1.738	1.088	0.746	11111	1.40	38670.8528	44444
8468	4.793	0.907	0.568	0.702	0.529	11111	1.30	38290.7442	44444
8468	4.787	0.924	0.645	0.680	0.467	11111	1.32	38303.6604	12221
8468	4.789	0.936	0.603	0.680	0.454	11111	1.32	38340.6544	11111
8469	5.041	0.230	-0.740	0.309	0.111	11111	1.22	37565.7895	22222
8469	5.094	0.235	-0.727	0.342		11110	1.28	37570.8028	22222
8469	5.046	0.227	-0.734	0.244	0.178	11111	1.20	37835.8952	22222
8469	5.044	0.238	-0.738	0.229	0.168	11111	1.28	37836.8587	22222
8469	5.041	0.247	-0.734	0.258	0.147	11111	1.18	39055.7231	44444
8473	6.377	-0.075	-0.158	0.037	-0.073	11111	1.32	38993.7622	22222
8473	6.311	-0.073	-0.196	-0.061	-0.068	11111	1.31	38995.7645	44444
8473	6.377	-0.048	-0.167	0.014	-0.064	11111	1.35	38997.8819	44444
8485	4.513	1.370	1.458	1.027	0.722	11111	1.25	38383.6148	44444
8485	4.500	1.385	1.469	1.020	0.728	11111	1.98	38396.6623	44444
8485	4.470	1.403	1.409	0.996	0.745	11111	1.32	38400.5812	44444
8494	4.238	0.257	0.077	0.284	0.145	11111	1.34	38383.6269	44444
8494	4.171	0.267	0.075	0.242	0.153	11111	1.92	38397.6762	44444
8494	4.186	0.282	0.057	0.275	0.142	11111	1.41	38400.5967	44444
8498	4.154	1.430	1.645	1.016	0.704	11111	1.01	38204.9686	44444
8498	4.211	1.476	1.509	1.129	0.692	11111	1.01	38295.7530	21122
8498	4.112	1.454	1.611	1.016	0.736	11111	1.00	38306.7080	44444
8498	4.112	1.490	1.620	0.962	0.734	11111	1.05	38638.8513	44444
8499	4.159	1.005	0.815	0.670	0.487	11111	1.32	38270.8149	44443
8499	4.168	0.973	0.757	0.730	0.478	11111	1.67	38390.5727	22222
8499	4.123	0.995	0.773	0.892	0.000	11100	2.56	38398.6059	44444
8499	4.148	0.979	0.823	0.717	0.448	11111	1.33	38669.7327	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8518	3.843	-0.056	-0.075	0.090	-0.040	11100	1.21	38270.8210	44443
8518	3.880	-0.073	-0.162	0.085	-0.054	11111	1.56	38390.5831	22222
8518	3.777	-0.038	-0.183	-0.046	-0.013	11111	3.02	38398.6357	44444
8520	0.000	-0.142	-0.770	5.643	0.350	01100	1.18	38295.8100	21122
8520	5.053	-0.140	-0.799	-0.039	-0.135	11111	3.33	38396.6716	44444
8520	4.967	-0.086	-0.816	-0.077	-0.150	11111	1.15	38638.8600	44444
8522	4.803	-0.012	-0.234	0.087	-0.021	11111	1.00	38228.9176	44444
8522	4.803	0.022	-0.154	0.050	-0.040	11110	1.02	38303.6838	12221
8522	4.843	-0.013	-0.174	0.146	0.014	11111	1.46	38399.6018	21211
8523	4.560	-0.080	-0.492	-0.028	-0.115	11111	1.03	38303.7017	12221
8523	4.566	-0.121	-0.534	-0.006	-0.092	11111	1.64	38400.6345	44444
8538	4.417	1.018	0.788	0.727	0.594	11111	1.07	38225.9474	44444
8538	4.454	1.015	0.748	0.768	0.551	11111	1.06	38305.7035	44444
8538	4.438	1.022	0.800	0.771	0.537	11111	2.34	38396.7085	44444
8539	4.650	-0.044	-0.964	0.119	-0.000	11111	1.43	38387.5839	44444
8539	4.629	-0.053	-1.030	0.208	0.009	11111	1.56	38390.5927	22222
8539		-0.027			-0.017	01001	2.10	38399.6097	21211
8539	4.636	-0.013	-0.877	0.	0.	11100	2.23	38399.6158	21211
8541	4.574	0.089	-0.366	0.107	0.100	11111	1.05	38225.9548	44444
8541	4.595	0.100	-0.315	0.159	0.089	11111	1.05	38303.7088	12221
8551	4.810	1.053	0.870	0.771	0.565	11111	1.41	38387.5913	44444
8551	4.784	1.084	0.855	0.787	0.565	11111	1.31	38638.8680	44444
8551	4.780	1.054	0.878	0.786	0.532	11111	2.21	38670.8805	44444
8558	3.662	0.398	0.017	0.349	0.239	11111	1.55	38387.5994	44444
8558	3.655	0.369	-0.046	0.429	0.232	11111	1.66	38390.6037	22222
8572	4.376	1.660	1.113			11100	1.04	38291.7453	34421
8572	4.354	1.687	1.086	1.364	1.080	11111	1.04	38291.7559	34421
8572	4.407	1.692	1.109	1.442	1.089	11111	1.04	38303.7181	12221
8572	4.333	1.659	1.100	1.354	1.042	11111	1.36	38670.8622	44444
8573	4.856	-0.076	-0.083	-0.035	-0.010	11111	1.96	38387.6070	44444
8573	4.813	-0.103	-0.148	0.091	-0.075	11111	2.19	38390.6138	22222
8573	4.745	-0.053	-0.228	-0.076	-0.056	11111	3.31	38398.6285	44444
8579	4.493	-0.109	-0.743	-0.085	-0.098	11111	1.02	38222.9496	44443
8579	4.508	-0.108	-0.738	0.023	-0.098	11111	1.02	38228.9251	44444
8579	4.551	-0.110	-0.745	0.034	-0.125	11111	1.02	38305.7107	44444
8585	3.730	-0.004	-0.021	-0.092	-0.030	11111	1.06	38222.9635	44443
8585	3.799	0.025	0.012	0.061	-0.033	11111	1.05	38305.7178	44444
8585	3.778	0.013	0.019	0.050	-0.017	11111	1.69	38400.6506	44444
8597	4.005	-0.061	-0.289	-0.051	-0.086	11111	1.18	38224.9483	44444
8597	0.000	-0.140	0.000	0.000	0.000	01000	1.18	38290.7559	44444
8597	3.990	-0.086	-0.270	-0.072	-0.042	11111	2.79	38398.6431	44444
8613	4.591	0.244	0.085	0.168	0.128	11111	1.06	38222.9695	44443
8613	4.682	0.247	0.110	0.273	0.143	11111	1.07	38305.7560	44444
8613	4.626	0.233	0.116	0.224	0.170	11111	1.88	38398.6797	44444
8622	4.861	-0.210	-1.080	-0.101	-0.047	11111	1.02	37563.7635	22222
8622	4.879	-0.195	-1.053	-0.090	-0.212	11111	1.01	37564.7422	22222
8622	4.884	-0.216	-1.072	-0.079	-0.254	11111	1.01	37565.7343	22222
8622	4.875	-0.213	-1.053	-0.070	-0.132	11111	1.14	37569.8093	22222
8622	4.870	-0.209	-1.050	-0.075	-0.130	11111	1.06	37570.7750	22222
8622	4.880	-0.209	-1.067	-0.138	-0.209	11111	1.05	37590.6051	22222
8622	4.873	-0.204	-1.064	-0.035	-0.219	11111	1.06	37590.7202	22222
8622	4.868	-0.201	-1.058	-0.082	-0.210	11111	1.07	37592.5904	22222
8622	4.871	-0.210	-1.071	-0.068	-0.205	11111	1.07	37593.7150	22222
8622	4.860	-0.204	-1.083	-0.033	-0.227	11111	1.01	37594.6620	22222
8622	4.875	-0.213	-1.065	-0.104	-0.205	11111	1.03	37595.6035	22222
8622	4.882	-0.211	-1.060	-0.060	-0.216	11111	1.14	37595.7368	22222
8622	4.879	-0.198	-1.032	-0.068	-0.208	11111	1.43	37596.7956	22222
8622	4.867	-0.203	-1.069	0.090	-0.040	11100	1.22	37597.7557	22222
8622	4.854	-0.200	-1.066	-0.160	-0.195	11111	1.18	37673.5370	22222
8622	4.895	-0.219	-1.037	-0.115	-0.200	11111	1.51	37673.5967	22222
8622	4.870	-0.183	-1.052	-0.149	-0.190	11111	1.52	37693.5428	22222
8622	4.877	-0.184	-1.060	-0.063	-0.216	11111	1.17	37808.9576	22222
8622	4.871	-0.211	-1.051	-0.070	-0.214	11111	1.34	37835.8464	22222
8622	4.866	-0.211	-1.056	-0.071	-0.223	11111	1.05	37835.9317	22222
8622	4.844	-0.208	-1.047	-0.064	-0.211	11111	1.34	37836.8430	22222
8622	4.834	-0.212	-1.082	-0.076	-0.224	11111	1.06	37836.9274	22222
8622	4.924	-0.213	-1.016	-0.150	-0.220	11111	2.19	38131.9736	44444
8622	4.900	-0.206	-1.030	-0.068	-0.218	11111	1.95	38176.8652	44444
8622	4.897	-0.211	-1.056	-0.124	-0.217	11111	1.16	38176.9681	44444
8622	4.897	-0.223	-1.023	-0.014	-0.220	11111	1.86	38180.8602	44444
8622	4.890	-0.205	-1.061	-0.017	-0.225	11111	1.14	38180.9633	44444
8622	4.881	-0.206	-1.037	-0.061	-0.196	11111	1.26	38200.8784	44444
8622	4.886	-0.194	-1.062	-0.056	-0.227	11111	1.02	38200.9781	44444
8622	4.885	-0.209	-1.011	-0.103	-0.205	11111	1.85	38202.8010	44444
8622	4.870	-0.173	-1.073	-0.050	-0.232	11111	1.04	38202.9485	44444
8622	4.865	-0.200	-1.028	0.010	-0.241	11111	1.50	38203.8320	44444
8622	4.877	-0.194	-1.058	-0.059	-0.222	11111	1.04	38203.9450	44444
8622	4.839	-0.176	-1.031	0.013	-0.206	11111	1.56	38204.8217	44444
8622	4.843	-0.145	-1.071	-0.062	-0.224	11111	1.04	38204.9469	44444
8622	0.	-0.179	0.	-0.051	-0.222	01011	1.48	38205.8287	22222
8622	4.883	-0.203	-1.032	-0.066	-0.209	11111	1.39	38205.8420	22222
8622	4.852	-0.199	-1.022	0.016	-0.206	11111	1.61	38206.8109	44444
8622	4.902	-0.243	-1.030	-0.026	-0.241	11111	1.02	38206.9630	44444
8622	0.	-0.245	-1.012	-0.053	-0.226	01111	1.52	38207.8180	22222
8622	4.882	-0.203	-1.034	-0.077	-0.211	11111	1.82	38216.7647	44444
8622	4.918	-0.178	-1.003	0.040	-0.204	11111	1.85	38222.7465	44443
8622	4.843	-0.219	-1.047	-0.115	-0.214	11111	1.01	38222.9564	44443
8622	4.819	-0.188	-1.019	-0.086	-0.242	11111	2.50	38223.7085	44444
8622	4.868	-0.196	-1.021	-0.059	-0.208	11111	2.08	38224.7257	44444
8622	4.847	-0.179	-1.093	4.038	-0.229	11101	1.01	38224.9399	44444
8622	4.910	-0.220	-1.033	-0.053	-0.217	11111	1.76	38225.7451	44444
8622	4.847	-0.192	-1.073	-0.074	-0.209	11111	1.01	38225.9411	44444
8622	4.857	-0.216	-1.056	-0.074	-0.197	11111	1.01	38228.9320	44444
8622	4.865	-0.237	-1.065	-0.091	-0.220	11111	1.05	38269.8752	44443
8622	0.000	-0.125	-1.075	0.090	-0.040	01100	1.42	38269.9735	44443

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8622	4.927	-0.206	-1.010	-0.013	-0.228	11111	1.64	38269.9990	44443
8622	4.896	-0.206	-1.024	-0.068	-0.196	11111	1.27	38270.6856	44443
8622	4.890	-0.197	-1.071	-0.096	-0.224	11111	1.02	38270.8417	44443
8622	4.882	-0.215	-1.057	-0.070	-0.211	11111	1.01	38284.7767	44444
8622	4.922	-0.163	-1.026	-0.064	-0.194	11111	1.08	38284.8482	44444
8622	4.868	-0.203	-1.040	-0.080	-0.222	11111	1.16	38288.6637	12221
8622	4.912	-0.240	-1.031	-0.141	-0.156	11111	2.15	38290.9789	44444
8622	4.871	-0.203	-1.040	-0.080	-0.223	11111	1.01	38291.7757	34421
8622	4.870	-0.192	-1.063	-0.074	-0.214	11111	1.01	38293.7537	44444
8622	4.875	-0.195	-1.061	-0.077	-0.226	11111	1.01	38294.7420	44444
8622	4.815	-0.201	-1.079	-0.138	0.792	11110	1.04	38295.6991	21122
8622	4.888	-0.230	-1.059	-0.080	-0.224	11111	1.32	38296.6046	44444
8622	4.887	-0.207	-1.059	-0.068	-0.209	11111	1.08	38296.8185	44444
8622	4.878	-0.191	-1.017	-0.085	-0.188	11111	2.45	38296.9761	44444
8622	4.892	-0.207	-1.041	-0.066	-0.228	11111	1.12	38298.6499	22222
8622	4.869	-0.197	-1.044	-0.077	-0.206	11111	1.03	38298.7769	22222
8622	4.894	-0.229	-1.037	-0.073	-0.237	11111	1.38	38299.5859	44422
8622	4.870	0.182	1.043	-0.087	-0.183	11111	1.01	38299.7507	44422
8622	4.923	-0.212	-1.029	-0.047	-0.227	11111	1.42	38300.5774	43433
8622	4.864	-0.222	-1.055	-0.049	-0.197	11111	1.03	38300.7726	43433
8622	4.863	-0.203	-1.042	-0.092	-0.203	11111	2.00	38300.9430	43433
8622	4.882	-0.200	-1.037	-0.070	-0.236	11111	1.03	38301.6869	12221
8622	4.854	-0.206	-1.043	-0.090	-0.226	11111	1.15	38301.8302	12221
8622	4.861	-0.225	-1.058	-0.093	-0.227	11111	1.39	38302.5761	22221
8622	4.880	-0.200	-1.070	-0.075	-0.226	11111	1.01	38302.7309	22221
8622	4.909	-0.221	-1.073	-0.072	-0.238	11111	1.65	38302.9103	22221
8622	4.846	-0.209	-1.038	-0.106	-0.221	11111	1.36	38303.5783	12221
8622	4.913	-0.192	-1.036	-0.040	-0.229	11111	1.01	38303.7387	12221
8622	4.878	-0.208	-1.046	-0.094	-0.225	11111	1.52	38303.8932	12221
8622	4.871	-0.203	-1.040	-0.080	-0.218	11111	1.37	38304.5739	12221
8622	4.902	-0.205	-1.085	-0.057	-0.237	11111	1.01	38305.7266	44444
8622	4.872	-0.198	-1.057	-0.092	-0.225	11111	1.01	38306.7155	44444
8622	4.933	-0.212	-1.072	-0.047	-0.187	11111	1.01	38307.7058	44444
8622	4.862	-0.175	-1.017	-0.079	-0.213	11111	2.30	38307.9399	44444
8622	4.878	-0.193	-1.071	-0.093	-0.216	11111	1.01	38310.7011	44444
8622	4.888	-0.194	-1.031	-0.094	-0.186	11111	2.35	38310.9339	44444
8622	4.877	-0.193	-1.063	-0.089	-0.227	11111	1.01	38311.6973	44444
8622	4.885	-0.219	-1.044	-0.097	-0.200	11111	1.10	38315.6095	44444
8622	4.888	-0.209	-1.083	-0.043	-0.210	11111	1.01	38317.6760	44444
8622	4.874	-0.214	-1.011	-0.089	-0.188	11111	2.33	38317.9137	44444
8622	4.910	-0.185	-1.031	-0.065	-0.193	11111	1.08	38324.5951	44444
8622	4.910	-0.175	-1.049	-0.046	-0.202	11111	1.02	38327.6873	22222
8622	4.867	-0.207	-1.052	-0.076	-0.212	11111	1.12	38328.5656	44444
8622	4.899	-0.196	-1.056	-0.056	-0.219	11111	1.12	38329.5649	44444
8622	4.914	-0.186	-1.030	-0.096	-0.171	11111	1.12	38337.5430	22222
8622	4.846	-0.218	-1.047	-0.064	-0.254	11111	1.01	38337.6513	22222
8622	4.899	-0.222	-1.054	-0.067	-0.213	11111	1.03	38338.5896	22221
8622	4.896	-0.199	-1.052	-0.065	-0.231	11111	1.06	38338.6915	22221
8622	4.879	-0.192	-1.040	-0.081	-0.215	11111	1.06	38339.5613	44444
8622	4.886	-0.195	-1.067	-0.078	-0.217	11111	1.01	38343.6122	44444
8622	4.861	-0.196	-1.026	-0.095	-0.213	11111	1.13	38343.7080	44444
8622	4.925	-0.206	-1.075	-0.056	-0.214	11111	1.09	38365.6309	44444
8622	4.897	-0.209	-1.057	-0.106	-0.193	11111	1.05	38366.6099	44444
8622	4.893	-0.205	-1.051	-0.074	-0.202	11111	1.98	38396.6795	44444
8622	4.894	-0.217	-1.030	-0.056	-0.226	11111	2.39	38397.6979	44444
8622	4.867	-0.224	-1.046	-0.099	-0.199	11111	2.20	38398.6866	44444
8622	4.878	-0.205	-1.069	-0.080	-0.198	11111	1.64	38400.6415	44444
8622	4.880	-0.203	-1.040	-0.080	-0.210	11111	2.31	38430.6042	44444
8622	4.903	-0.230	-1.023	-0.083	-0.214	11111	2.08	38519.9175	44444
8622	4.907	-0.188	-1.012	-0.070	-0.217	11111	1.80	38521.9308	44444
8622	4.889	-0.212	-1.007	-0.081	-0.207	11111	2.11	38523.9051	44444
8622	4.910	-0.198	-1.049	-0.059	-0.223	11111	1.09	38544.9868	44444
8622	4.888	-0.192	-1.042	-0.070	-0.213	11111	1.11	38545.9755	22222
8622	4.875	-0.194	-1.059	-0.087	-0.221	11111	1.12	38547.9667	22222
8622	4.844	-0.238	-1.002	0.000	0.000	11100	1.10	38552.9622	22200
8622	4.880	-0.203	-1.045	-0.081	-0.209	11111	2.37	38553.8104	44444
8622	4.855	-0.191	-1.035	-0.097	-0.225	11111	1.11	38553.9541	44444
8622	4.868	-0.187	-1.036	-0.093	-0.210	11111	2.10	38555.8181	44444
8622	4.883	-0.206	-1.046	-0.094	-0.226	11111	1.19	38555.9237	44444
8622	4.874	-0.197	-1.034	-0.089	-0.209	11111	1.92	38556.8270	44444
8622	4.907	-0.209	-1.048	-0.054	-0.224	11111	1.10	38556.9487	44444
8622	4.882	-0.204	-1.027	-0.074	-0.220	11111	2.10	38557.8129	44444
8622	4.867	-0.201	-1.028	-0.089	-0.202	11111	2.68	38558.7848	44444
8622	4.905	-0.213	-1.069	-0.067	-0.219	11111	1.08	38558.9510	44444
8622	4.878	-0.190	-1.039	-0.085	-0.205	11111	1.86	38559.8229	44444
8622	4.906	-0.210	-1.045	-0.056	-0.222	11111	1.04	38559.9775	44444
8622	4.893	-0.205	-1.042	-0.093	-0.226	11111	1.09	38560.9442	22222
8622	4.856	-0.184	-1.062	-0.133	-0.222	11111	1.08	38561.9461	22222
8622	4.881	-0.192	-1.051	-0.099	-0.224	11111	1.07	38562.9452	22222
8622	4.889	-0.189	-1.041	-0.100	-0.221	11111	1.10	38566.9241	22222
8622	4.873	-0.189	-1.049	-0.124	-0.218	11111	1.08	38567.9305	22222
8622	4.923	-0.215	-1.050	-0.070	-0.233	11111	1.12	38568.9075	22222
8622	4.917	-0.174	-1.016	-0.066	-0.204	11111	1.64	38579.7874	22222
8622	4.861	-0.204	-1.056	-0.087	-0.231	11111	1.37	38579.8203	22222
8622	4.868	-0.220	-1.051	-0.075	-0.217	11111	1.08	38637.7363	44444
8622	4.846	-0.127	-1.086	-0.121	-0.195	11111	1.09	38638.8857	44444
8622	4.886	-0.207	-1.037	-0.075	-0.206	11111	1.12	38639.7137	44444
8622	4.886	-0.200	-1.042	-0.080	-0.215	11111	1.01	38641.7868	22222
8622	4.880	-0.231	-1.043	-0.084	-0.193	11111	1.11	38655.6739	44444
8622	4.880	-0.203	-1.040	-0.080	-0.210	11111	1.01	38656.7674	22222
8622	4.903	-0.188	-1.048	-0.068	-0.206	11111	1.02	38658.7198	22222
8622	4.900	-0.208	-1.031	-0.055	-0.217	11111	1.01	38658.7668	22222
8622	4.877	-0.230	-1.035	-0.080	-0.218	11111	1.17	38658.8590	22222
8622	4.880	-0.203	-1.040	-0.080	-0.210	11111	1.12	38659.6605	22222
8622	4.874	-0.210	-1.048	-0.079	-0.203	11111	1.01	38668.7069	44444
8622	4.868	-0.179	-0.248	-0.096	-0.198	11011	1.09	38668.8031	44444
8622	4.843	-0.222	-1.063	-0.076	-0.220	11111	1.01	38669.7424	44444
8622	4.862	-0.238	-1.053	-0.068	-0.215	11111	1.01	38670.7296	44444
8622	4.890	-0.210	-1.047	-0.061	-0.218	11111	1.01	38671.7219	44444
8622	4.878	-0.225	-1.060	-0.051	-0.204	11111	1.03	38673.7572	44444
8622	4.886	-0.223	-1.019	-0.069	-0.220	11111	2.36	38673.9403	44444
8622	4.863	-0.219	-1.075	-0.091	-0.213	11111	1.06	38674.6477	44444
8622	4.876	-0.198	-1.063	-0.090	-0.203	11111	1.02	38676.6670	44444
8622	4.880	-0.210	-1.068	-0.066	-0.222	11111	1.02	38677.6713	22222
8622	4.883	-0.201	-1.042	-0.067	-0.210	11111	1.01	38678.6798	44444
8622	4.827	-0.245	-1.053	-0.054	-0.228	11111	1.01	38679.6982	22222
8622	4.892	-0.190	-1.059	-0.067	-0.205	11111	1.03	38680.6498	44444
8622	4.879	-0.205	-1.045	-0.063	-0.222	11111	1.01	38680.7035	44444
8622	4.870	-0.230	-1.041	-0.085	-0.215	11111	1.03	38681.6515	44444
8622	4.905	-0.194	-1.032	-0.085	-0.210	11111	1.02	38682.6507	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8622	4.905	-0.207	-1.035	-0.060	-0.210	11111	1.01	38696.6512	22222
8622	4.855	-0.199	-1.045	-0.100	-0.210	11111	1.16	38696.7506	22222
8622	4.897	-0.205	-1.054	-0.048	-0.211	11111	1.10	38699.5588	22222
8622	4.897	-0.219	-1.053	-0.054	-0.210	11111	1.02	38699.6696	22222
8622	4.914	-0.192	-1.057	-0.056	-0.212	11111	1.06	38700.5780	44444
8622	4.880	-0.203	-1.040	-0.080	-0.210	11111	1.14	38701.7325	22222
8622	4.859	-0.219	-1.056	0.000	0.000	11100	1.05	38703.5720	44400
8622	4.884	-0.202	-1.047	0.000	0.000	11100	1.05	38703.6837	44400
8622	4.885	-0.230	-1.023	-0.073	-0.202	11111	1.14	38708.7105	44444
8622	4.918	-0.253	-1.036	-0.031	-0.214	11111	1.03	38711.5703	44444
8622	4.899	-0.217	-1.054	-0.074	-0.219	11111	1.03	38712.5675	44444
8622	4.926	-0.225	-1.026	-0.054	-0.201	11111	1.04	38719.6356	44444
8622	4.871	-0.208	-1.038	-0.085	-0.208	11111	1.02	38720.6156	44444
8622	4.805	-0.321	-1.231	-0.044	-0.232	11111	1.60	38725.5806	22222
8622	4.908	-0.214	-1.064	-0.052	-0.211	11111	1.01	38728.5512	44444
8622	4.931	-0.208	-1.070	-0.002	-0.223	11111	1.01	38729.5734	44444
8622	4.880	-0.203	-1.040	-0.080	-0.210	11111	1.01	38730.5726	22222
8622	4.895	-0.218	-1.049	0.000	0.000	11100	1.10	38747.5902	22200
8622	4.915	-0.227	-1.054	-0.060	-0.198	11111	1.12	38763.5561	44444
8622	4.880	-0.195	-1.058	-0.078	-0.207	11111	1.26	38764.5899	44444
8622	4.889	-0.179	-1.039	-0.087	-0.226	11111	2.13	38870.9538	44444
8622	4.875	-0.200	-1.038	-0.103	-0.204	11111	1.46	38873.0047	44444
8622	4.891	-0.185	-1.057	0.000	0.000	11100	1.40	38878.9964	22200
8622	4.883	-0.204	-1.042	0.000	0.000	11100	2.29	38899.8664	44400
8622	4.903	-0.192	-1.045	0.000	0.000	11100	1.18	38900.9818	44400
8622	4.883	-0.191	-1.039	-0.076	-0.203	11111	2.00	38906.8629	44444
8622	4.919	-0.219	-1.035	-0.050	-0.228	11111	1.18	38906.9649	44444
8622	4.888	-0.211	-1.029	-0.076	-0.214	11111	2.44	38908.8354	44444
8622	4.897	-0.187	-1.050	-0.068	-0.216	11111	1.19	38908.9561	44444
8622	4.883	-0.195	-1.041	-0.076	-0.211	11111	2.20	38910.8409	44444
8622	4.894	-0.204	-1.034	-0.089	-0.233	11111	1.18	38910.9532	44444
8622	4.868	-0.196	-1.037	-0.093	-0.210	11111	2.34	38911.8313	44444
8622	4.876	-0.205	-1.028	-0.072	-0.217	11111	2.44	38912.8245	44444
8622	4.885	-0.203	-1.031	-0.073	-0.214	11111	2.65	38930.7672	44444
8622	4.871	-0.192	-1.044	-0.081	-0.223	11111	1.10	38930.9262	44444
8622	4.880	-0.206	-1.029	-0.072	-0.224	11111	2.36	38931.7757	44444
8622	4.887	-0.179	-1.052	-0.092	-0.232	11111	1.12	38931.9147	44444
8622	4.882	-0.220	-1.024	-0.074	-0.211	11111	2.30	38932.7758	44444
8622	4.904	-0.190	-1.047	-0.091	-0.204	11111	1.17	38932.8966	44444
8622	4.885	-0.205	-1.039	-0.080	-0.207	11111	1.18	38934.8892	22222
8622	4.871	-0.193	-1.034	-0.103	-0.234	11111	1.88	38936.7890	44444
8622	4.901	-0.218	-1.064	-0.089	-0.196	11111	1.13	38936.8993	44444
8622	4.877	-0.193	-1.041	-0.083	-0.205	11111	2.22	38937.7663	44444
8622	4.890	-0.216	-1.038	-0.090	-0.207	11111	1.32	38937.8497	44444
8622	4.882	-0.207	-1.051	-0.066	-0.220	11111	1.04	38937.9357	44444
8622	4.898	-0.198	-1.039	-0.055	-0.214	11111	2.45	38938.7531	44444
8622	4.887	-0.211	-1.040	-0.089	-0.201	11111	1.03	38938.9434	44444
8622	4.881	-0.204	-1.043	-0.071	-0.212	11111	2.61	38939.7442	44444
8622	4.900	-0.235	-1.046	-0.089	-0.236	11111	1.26	38939.8552	44444
8622	4.889	-0.207	-1.040	-0.074	-0.209	11111	2.48	38940.7462	44444
8622	4.891	-0.210	-1.028	-0.102	-0.215	11111	1.01	38940.9653	44444
8622	4.880	-0.203	-1.040	-0.080	-0.210	11111	1.35	38943.8267	22222
8622	4.887	-0.197	-1.035	-0.075	-0.207	11111	2.47	38944.7358	44444
8622	4.850	-0.225	-1.042	-0.060	-0.222	11111	1.09	38944.8916	44444
8622	4.881	-0.210	-1.065	-0.068	-0.229	11111	1.01	38992.8398	44444
8622	4.891	-0.194	-1.009	-0.090	-0.199	11111	1.25	38992.9636	44444
8622	4.903	-0.186	-1.013	-0.093	-0.204	11111	1.43	38993.6778	22222
8622	4.886	-0.217	-1.057	-0.021	-0.211	11111	1.12	38993.7452	22222
8622	4.886	-0.190	-1.027	-0.093	-0.192	11111	1.38	38995.6811	44444
8622	4.849	-0.203	-1.054	-0.124	-0.219	11111	1.01	38995.8270	44444
8622	4.872	-0.232	-1.020	-0.083	-0.209	11111	1.71	38996.7105	22222
8622	4.827	-0.237	-1.028	-0.084	-0.218	11111	1.43	38997.6676	44444
8622	4.946	-0.169	-1.027	-0.049	-0.210	11111	1.01	38997.8236	44444
8622	4.854	-0.217	-1.024	-0.100	-0.221	11111	1.65	39000.6338	22222
8622	4.906	-0.189	-1.056	-0.060	-0.199	11111	1.15	39000.7169	22222
8622	4.912	-0.180	-1.029	-0.063	-0.197	11111	1.02	39004.8336	44444
8622	4.843	-0.209	-1.072	0.000	0.000	11100	1.01	39013.7931	22200
8622	4.903	-0.195	-1.053	0.000	0.000	11100	1.05	39016.7174	44400
8622	4.840	-0.175	-1.046	0.000	0.000	11100	1.01	39016.7799	44400
8622	4.896	-0.205	-1.044	-0.064	-0.228	11111	1.10	39018.6840	44444
8622	4.873	-0.199	-1.035	-0.084	-0.212	11111	1.09	39018.8436	44444
8622	4.892	-0.206	-1.036	-0.071	-0.195	11111	2.56	39019.0035	44444
8622	4.892	-0.201	-1.046	-0.075	-0.207	11111	1.12	39019.6757	44444
8622	4.882	-0.227	-1.033	-0.082	-0.219	11111	1.17	39025.6421	44444
8622	4.882	-0.207	-1.083	0.000	0.000	11100	1.06	39026.6840	44400
8622	4.880	-0.200	-1.073	0.000	0.000	11100	1.04	39026.7983	44400
8622	4.887	-0.213	-1.002	0.000	0.000	11100	2.17	39026.9645	44400
8622	4.880	-0.203	-1.040	-0.080	-0.210	11111	1.17	39027.6383	22222
8622	4.884	-0.223	-1.062	-0.078	-0.218	11111	1.01	39028.7165	44444
8622	4.897	-0.205	-1.035	-0.052	-0.191	11111	2.37	39028.9687	44444
8622	4.870	-0.214	-1.039	-0.090	-0.216	11111	1.09	39029.6599	22222
8622	4.871	-0.186	-1.044	-0.099	-0.206	11111	1.08	39031.6564	44444
8622	4.894	-0.217	-1.028	-0.066	-0.209	11111	1.01	39031.7417	44444
8622	4.866	-0.198	-1.054	0.000	0.000	11100	1.40	39032.5764	44400
8622	4.897	-0.215	-1.039	-0.082	-0.259	11111	1.35	39032.5846	44444
8622	4.913	-0.204	-1.058	-0.081	-0.234	11111	1.29	39032.5943	44444
8622	4.914	-0.197	-1.056	0.000	0.000	11100	1.05	39032.6715	44400
8622	4.930	-0.210	-1.059	-0.046	-0.214	11111	1.01	39032.7233	44444
8622	4.873	-0.180	-1.066	-0.067	-0.204	11111	1.38	39033.5764	44444
8622	4.870	-0.210	-1.057	0.000	0.000	11100	1.11	39033.6411	44400
8622	4.880	-0.207	-1.051	-0.089	-0.212	11111	1.07	39033.6582	44444
8622	4.904	-0.213	-1.049	-0.068	-0.210	11111	1.01	39033.7183	44444
8622	4.903	-0.206	-1.048	-0.072	-0.205	11111	1.34	39034.5808	44444
8622	4.871	-0.195	-1.041	0.000	0.000	11100	1.19	39034.6120	44400
8622	4.898	-0.232	-1.053	-0.064	-0.223	11111	1.01	39034.7187	44444
8622	4.888	-0.194	-1.069	-0.074	-0.223	11111	1.18	39035.6128	44444
8622	4.898	-0.228	-1.042	-0.050	-0.209	11111	1.01	39036.7333	44444
8622	4.876	-0.205	-1.046	-0.112	-0.207	11111	1.13	39037.8070	44444
8622	4.869	-0.195	-1.066	-0.083	-0.203	11111	1.01	39038.6882	44444
8622	4.883	-0.205	-1.037	-0.094	-0.200	11111	1.09	39040.6311	22222
8622	4.866	-0.197	-1.071	-0.099	-0.215	11111	1.03	39041.6646	44444
8622	4.889	-0.221	-1.086	-0.075	-0.205	11111	1.02	39042.7371	44444
8622	4.898	-0.199	-1.069	-0.068	-0.215	11111	1.03	39045.6531	44444
8622	4.894	-0.201	-1.050	-0.073	-0.199	11111	1.26	39045.8201	44444
8622	4.908	-0.216	-1.050	-0.065	-0.215	11111	1.01	39055.6447	44444
8622	4.871	-0.198	-1.047	-0.084	-0.217	11111	1.09	39055.7447	44444
8622	4.874	-0.246	-1.042	-0.074	-0.187	11111	1.01	39056.6681	44444
8622	4.911	-0.250	-1.068	-0.044	-0.208	11111	1.01	39057.6543	44444
8622	4.906	-0.196	-1.074	-0.056	-0.205	11111	1.01	39058.6406	44444
8622	4.910	-0.218	-1.051	-0.063	-0.222	11111	1.26	39059.7816	22222

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8622	4.872	-0.206	-1.062	-0.070	-0.247	11111	1.08	39060.5811	44444
8622	4.878	-0.212	-1.058	-0.082	-0.218	11111	1.09	39061.5737	44444
8622	4.888	-0.204	-1.080	-0.069	-0.221	11111	1.06	39062.5835	44444
8622	4.899	-0.200	-1.063	-0.077	-0.197	11111	1.04	39063.5922	44444
8622	4.876	-0.206	-1.053	-0.105	-0.224	11111	1.01	39064.6593	44444
8622	4.853	-0.194	-1.075	-0.041	-0.222	11111	1.03	39065.5956	44444
8622	4.853	-0.196	-1.071	-0.085	-0.195	11111	1.02	39065.6085	44444
8622	4.862	-0.203	-1.056	-0.099	-0.216	11111	1.01	39066.6228	44444
8622	4.890	-0.198	-1.046	-0.057	-0.216	11111	1.07	39066.7055	44444
8622	4.885	-0.213	-1.048	-0.084	-0.211	11111	1.07	39068.5639	44444
8622	4.880	-0.210	-1.041	-0.063	-0.213	11111	1.03	39068.6736	44444
8622	4.873	-0.206	-1.033	-0.083	-0.219	11111	1.01	39069.6234	44444
8622	4.881	-0.204	-1.039	-0.080	-0.218	11111	1.01	39091.5643	22222
8622	4.886	-0.196	-1.059	-0.081	-0.208	11111	1.01	39093.5465	44444
8622	4.878	-0.206	-1.058	-0.059	-0.226	11111	1.03	39096.5977	44444
8622	4.900	-0.212	-1.059	-0.048	-0.217	11111	1.14	39098.6432	44444
8622	4.879	-0.181	-1.069	-0.067	-0.205	11111	1.05	39099.6015	44444
8622	4.873	-0.199	-1.089	-0.069	-0.214	11111	1.01	39100.5408	44444
8622	4.873	-0.200	-1.042	-0.092	-0.221	11111	1.16	39129.5659	44444
8628	4.218	-0.113	-0.384	-0.091	-0.087	11111	1.99	38224.9551	44444
8628	4.047	-0.124	-0.293	-0.068	-0.134	11111	2.00	38291.7380	34421
8628	4.199	-0.122	-0.334	-0.020	-0.071	11111	1.98	38306.7306	44444
8632	4.414	1.301	1.359	0.878	0.663	11111	1.03	38222.9760	44443
8632	4.466	1.324	1.346	0.949	0.692	11111	1.77	38400.6593	44444
8632	4.495	1.375	1.369	0.949	0.692	11111	1.08	38638.8774	44444
8634	3.397	-0.088	-0.255	-0.026	-0.072	11111	1.10	38270.8490	44443
8634	3.372	-0.110	-0.255	-0.066	-0.057	11111	2.38	38398.6533	44444
8641	4.805	-0.005	0.017	0.090	-0.040	11100	1.01	38284.7591	44444
8641					0.005	00001	1.00	38284.7642	44444
8641	4.761	-0.020	-0.118	0.014	-0.014	11111	2.81	38398.6963	44444
8641	4.790	-0.013	-0.005	0.051	-0.042	11111	1.44	38670.8711	44444
8649	4.678	1.339	1.562	1.029	0.722	11111	1.64	38992.8698	44444
8649	4.654	1.385	1.564	1.009	0.710	11111	1.60	38995.8374	44444
8649	4.655	1.345	1.535	0.994	0.697	11111	1.60	38997.8336	44444
8650	2.933	0.844	0.569	0.664	0.499	11111	1.00	38284.7691	44444
8650		0.874	0.629			01100	1.01	38348.6265	23333
8650	2.959	0.877	0.618	0.616	0.463	11111	1.02	38348.6389	23333
8650	2.944	0.878	0.579	0.644	0.461	11111	1.11	38564.9296	22222
8665	4.204	0.496	-0.031	0.467	0.313	11111	1.48	38773.5743	44444
8665	4.180	0.528	-0.040	0.410	0.298	11111	1.92	38784.5806	44444
8665	4.173	0.503	-0.008	0.416	0.316	11111	1.78	38786.5658	44444
8667	3.969	1.071	0.901	0.801	0.520	11111	1.40	38773.5818	44444
8667	3.928	1.083	0.901	0.717	0.518	11111	1.76	38784.5875	44444
8667	3.913	1.087	0.938	0.736	0.517	11111	1.69	38786.5765	44444
8679	0.000	0.000	0.000	1.184	0.943	00011	2.80	38398.6218	44444
8679	3.915	1.601	1.949	1.105	0.949	11111	1.44	38641.8090	22222
8679	4.023	1.584	1.938	1.237	0.936	11111	1.46	38681.7218	44444
8679	3.998	1.585	1.923	1.220	0.961	11111	1.46	38700.6683	44444
8684	3.447	0.944	0.688	0.668	0.459	11111	1.01	38641.8233	22222
8684	3.495	0.935	0.675	0.666	0.483	11111	1.07	38677.7674	22222
8684	3.489	0.945	0.667	0.698	0.483	11111	1.04	38699.6850	22222
8694	3.573	1.075	0.923	0.928	0.491	11111	1.23	38269.7662	44443
8694	3.503	1.039	0.851	0.763	0.524	11111	1.69	38400.6684	44444
8694	3.515	1.033	0.922	0.775	0.533	11111	1.24	38673.7857	44444
8698	3.728	1.634	1.737	1.384	1.179	11111	1.95	38387.6309	44444
8698	0.000	1.653	1.755	6.835	1.164	01101	1.33	38641.8349	22222
8698	3.851	1.642	1.791	1.432	1.237	11111	1.38	38682.7442	44444
8698	3.764	1.655	1.747	1.420	1.195	11111	1.34	38699.6828	22222
8702	4.682	1.257	1.383	0.935	0.662	11111	1.58	38641.8493	22222
8702	4.762	1.263	1.340	0.925	0.651	11111	1.61	38673.8017	44444
8702	4.780	1.259	1.310	0.961	0.681	11111	1.62	38700.7459	44444
8709	3.250	0.042	0.063	0.062	0.032	11111	2.66	38398.6143	44444
8709	3.269	0.077	0.061	0.082	0.041	11111	1.54	38681.7294	44444
8709	3.255	0.058	0.088	0.072	0.039	11111	1.58	38699.6951	22222
8717	4.916	0.026	0.004	0.036	-0.018	11111	1.31	38668.8336	44444
8717	4.689	0.007	-0.025	0.032	-0.016	11111	1.17	38677.7741	22222
8717	4.918	-0.029	0.005	0.050	-0.017	11111	1.36	38708.7328	44444
8726	4.867	1.776	1.980	1.327	1.063	11111	1.07	38641.8594	22222
8726	4.966	1.767	1.929	1.337	1.042	11111	1.15	38673.8148	44444
8726	4.981	1.763	1.932	1.371	1.054	11111	1.07	38677.7605	22222
8728	1.150	0.104	0.052	0.010	0.002	11111	2.15	38224.9631	44444
8728	1.141	0.118	0.013	0.074	0.032	11111	2.14	38681.7046	44444
8728	1.146	0.091	0.065	0.060	0.026	11111	2.14	38696.6682	22222
8728	1.207	0.020	0.043	0.088	0.032	11111	2.15	38711.6078	44444
8729	5.452	0.630	0.200	0.536	0.328	11111	1.02	38328.6576	44444
8729	5.448	0.682	0.217	0.544	0.334	11111	1.03	38329.6842	44444
8729	5.442	0.667	0.159	0.539	0.354	11111	1.11	38356.6628	44444
8748	4.717	1.433	1.692	1.094	0.725	11111	1.62	38681.7387	44444
8752	5.176	1.535	1.315	1.208	0.881	11111	1.19	38568.9239	22222
8752	5.134	1.551	1.379	1.169	0.857	11111	1.55	38579.8030	22222
8752	5.078	1.554	1.298	1.157	0.836	11111	1.35	38579.8425	22222
8762	3.609	-0.108	-0.540	0.032	-0.084	11111	1.05	38317.7536	44444
8762	3.637	-0.085	-0.515	0.016	-0.056	11111	1.03	38324.7212	44444
8762	3.602	-0.088	-0.524	-0.007	-0.097	11111	1.02	38343.6424	44444
8773	4.520	-0.122	-0.493	-0.040	-0.129	11111	1.15	38302.7597	22221
8773	4.527	-0.113	-0.505	-0.002	-0.123	11111	1.23	38317.7669	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8775	2.469	1.675	1.966	1.518	1.352	11111	1.01	38269.8622	44443
8775	2.341	1.657	1.929	1.513	1.269	11111	1.04	38315.7581	44444
8775	2.373	1.657	1.959	1.426	1.356	11111	1.02	38317.7387	44444
8775	2.455	1.698	1.967	1.530	1.313	11111	1.13	38564.9381	22222
8775	2.450	1.682	1.967	1.524	1.319	11111	1.19	38565.9188	22222
8780	4.675	1.080	0.866	0.710	0.554	11111	1.05	38270.8559	44443
8780	4.652	1.049	0.892	0.781	0.568	11111	1.12	38317.7804	44444
8781	2.443	-0.024	-0.064	-0.058	-0.003	11111	1.06	38222.9344	44443
8781	2.483	-0.012	-0.036	0.015	-0.032	11111	1.06	38270.8627	44443
8781	2.491	-0.039	-0.014	0.026	-0.030	11111	1.11	38302.8013	22221
8781	2.451	-0.035	-0.001	0.007	-0.025	11111	1.26	38303.6418	12221
8781	2.469	-0.039	-0.034	0.038	-0.022	11111	1.20	38317.7926	44444
8789	4.461	0.907	0.589	0.729	0.490	11111	1.91	38324.7323	44444
8789	4.492	0.898	0.580	0.690	0.500	11111	1.83	38329.6962	44444
8795	4.486	1.607	1.939	1.251	1.037	11111	1.10	38302.7670	22221
8795	4.538	1.571	1.938	1.263	1.017	11111	1.16	38329.7306	44444
8796	4.779	1.363	1.158	0.956	0.676	11111	1.03	38270.8696	44443
8796	4.764	1.335	1.143	0.986	0.681	11111	1.08	38329.7410	44444
8797	4.889	-0.011	-0.859	0.114	-0.115	11111	1.14	38270.8788	44443
8797	4.871	-0.037	-0.872	0.082	-0.097	11111	1.13	38329.7066	44444
8808	6.254	-0.008	-0.600	0.051	-0.059	11111	1.17	38284.7943	44444
8812	3.608	1.247	1.203	0.810	0.616	11111	1.72	38302.7746	22221
8812	3.659	1.211	1.186	0.869	0.553	11111	2.55	38410.5692	44444
8812	3.670	1.230	1.247	0.842	0.612	11111	1.75	38671.7750	44444
8817	4.674	0.659	0.382	0.517	0.380	11111	1.80	38302.7817	22221
8817	4.683	0.628	0.354	0.583	0.303	11111	2.88	38410.5781	44444
8817	4.686	0.642	0.378	0.542	0.381	11111	1.84	38671.7830	44444
8819	4.411	0.805	0.469	0.643	0.427	11111	1.38	38302.7919	22221
8819	4.420	0.827	0.447	0.658	0.426	11111	1.41	38329.7540	44444
8830	4.547	0.311	0.058	0.310	0.158	11111	1.09	38302.8098	22221
8830	4.541	0.289	0.030	0.296	0.167	11111	1.31	38383.6668	44444
8830	4.503	0.296	0.027	0.248	0.168	11111	1.91	38397.7064	44444
8832	5.553	1.014	0.868	0.834	0.522	11111	1.12	37563.7740	22222
8832	5.565	1.015	0.873	0.829	0.517	11111	1.12	37564.7311	22222
8832	5.561	0.998	0.867	0.789	0.505	11111	1.12	37565.7250	22222
8832	5.546	1.004	0.894	0.810	0.432	11111	1.19	37569.8189	22222
8832	5.562	1.022	0.878	0.816	0.436	11111	1.15	37570.7930	22222
8832	5.550	1.006	0.857	0.090	-0.040	11100	1.17	37590.6116	22222
8832	5.558	1.007	0.880	0.826	0.510	11111	1.14	37590.7286	22222
8832	5.541	1.013	0.863	0.822	0.510	11111	1.18	37592.6057	22222
8832	5.556	0.991	0.863	0.871	0.460	11111	1.14	37593.7233	22222
8832	5.562	0.990	0.873	0.833	0.511	11111	1.12	37594.6698	22222
8832	5.574	0.992	0.869	0.811	0.508	11111	1.19	37595.7459	22222
8832	5.571	1.005	0.882	0.808	0.508	11111	1.37	37596.8041	22222
8832	5.559	0.995	0.870	0.090	-0.040	11100	1.25	37597.7668	22222
8832	5.538	1.011	0.846	0.780	0.514	11111	1.21	37673.5451	22222
8832	5.564	1.001	0.853	0.792	0.517	11111	1.42	37693.5503	22222
8832	5.570	1.019	0.889	0.780	0.526	11111	1.29	37808.9663	22222
8832	5.539	0.992	0.871	0.778	0.526	11111	1.45	37835.8552	22222
8832	5.534	1.006	0.880	0.781	0.525	11111	1.17	37835.9399	22222
8832	5.562	1.006	0.901	0.777	0.521	11111	1.46	37836.8508	22222
8832	5.540	1.009	0.883	0.776	0.517	11111	1.18	37836.9357	22222
8832	5.558	0.993	0.905	0.794	0.518	11111	1.82	38176.8801	44444
8832	5.584	0.959	0.898	0.869	0.521	11111	1.80	38180.8710	44444
8832	5.618	0.939	0.908	0.869	0.515	11111	1.25	38180.9703	44444
8832	5.564	0.940	0.931	1.000	0.467	11111	2.04	38202.7883	44444
8832	5.531	0.987	0.907	0.861	0.496	11111	1.13	38202.9698	44444
8832	5.521	0.996	0.916	0.956	0.505	11111	1.67	38203.8233	44444
8832	5.564	1.008	0.870	0.807	0.544	11111	1.15	38203.9530	44444
8832	5.621	0.911	0.896	0.915	0.528	11111	1.62	38204.8287	44444
8832	5.523	0.988	0.918	0.831	0.525	11111	1.15	38204.9539	44444
8832	5.555	0.973	0.883	0.866	0.535	11111	1.66	38205.8194	22222
8832	5.505	1.041	0.908	0.823	0.593	11111	1.64	38206.8198	44444
8832	5.576	1.023	0.926	0.765	0.516	11111	1.12	38206.9701	44444
8832	0.	0.970	0.934	0.927	0.476	01111	1.50	38207.8392	02222
8832	0.	0.991	0.	0.090	-0.040	01000	1.84	38222.7524	44443
8832	5.551	0.990	0.907	0.860	0.505	11111	1.78	38222.7588	44443
8832	5.533	0.972	0.933	0.854	0.514	11111	2.23	38223.7161	44444
8832	5.565	1.002	0.871	0.828	0.481	11111	1.10	38224.9773	44444
8832	5.556	0.983	0.915	0.853	0.503	11111	1.90	38225.7381	44444
8832	5.570	1.010	0.890	0.830	0.500	11111	2.19	38226.7111	44444
8832	5.570	1.002	0.865	0.892	0.524	11111	1.11	38269.8685	44443
8832	5.595	0.993	0.871	0.872	0.567	11111	1.37	38270.6925	44443
8832	5.593	0.987	0.865	0.856	0.506	11111	1.10	38270.8331	44443
8832	5.600	1.029	0.877	0.846	0.552	11111	1.15	38284.8638	44444
8832	5.582	1.010	0.890	0.830	0.512	11111	1.26	38288.6744	12221
8832	5.579	1.010	0.890	0.830	0.513	11111	1.10	38291.7839	34421
8832	5.581	0.993	0.857	0.813	0.549	11111	1.10	38293.7612	44444
8832	5.588	0.995	0.901	0.858	0.537	11111	1.10	38294.7566	44444
8832	5.572	1.007	0.832	0.859	0.505	11111	1.13	38295.7167	21122
8832	5.575	1.007	0.890	0.821	0.522	11111	1.14	38296.8309	44444
8832	5.564	1.032	0.910	0.813	-0.480	11111	1.94	38296.9942	44444
8832	5.594	1.010	0.890	0.830	0.518	11111	1.12	38301.7156	12221
8832	0.000	0.000	0.000	0.090	0.524	00001	1.19	38301.8406	12221
8832	5.538	0.979	0.851	0.805	0.527	11111	1.47	38302.5854	22221
8832	5.575	1.017	0.861	0.844	0.549	11111	1.10	38302.7393	22221
8832	5.581	1.019	0.868	0.845	0.522	11111	1.40	38302.8188	22221
8832	5.560	1.004	0.888	0.833	0.516	11111	1.45	38303.5866	12221
8832	5.583	1.016	0.892	0.827	0.530	11111	1.40	38303.9011	12221
8832	5.598	0.980	0.840	0.859	0.527	11111	1.10	38305.7499	44444
8832	5.577	0.997	0.861	0.842	0.540	11111	1.10	38306.7400	44444
8832	5.536	1.002	0.849	0.828	0.521	11111	1.14	38307.7967	44444
8832	5.574	0.997	0.863	0.833	0.529	11111	1.10	38310.7266	44444
8832	5.601	1.013	0.856	0.866	0.526	11111	1.15	38310.7932	44444
8832	5.585	0.998	0.889	0.858	0.521	11111	2.34	38310.9868	44444
8832	5.579	1.000	0.836	0.844	0.511	11111	1.10	38311.7253	44444
8832	5.592	0.992	0.882	0.867	0.532	11111	1.21	38316.8097	22221
8832	5.585	1.002	0.866	0.855	0.510	11111	1.19	38324.6045	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8832	5.562	0.999	0.851	0.823	0.537	11111	1.28	38326.8068	22221
8832	5.589	1.010	0.886	0.863	0.510	11111	1.10	38327.7011	22222
8832	5.583	0.971	0.841	0.858	0.513	11111	1.14	38328.6211	44444
8832	5.549	0.988	0.892	0.809	0.514	11111	1.14	38329.6149	44444
8832	5.582	1.020	0.870	0.851	0.510	11111	1.22	38337.5544	22222
8832	5.562	0.990	0.881	0.827	0.518	11111	1.10	38337.6597	22222
8832	5.585	0.999	0.890	0.851	0.516	11111	1.10	38338.6447	22221
8832	5.555	1.021	0.885	0.809	0.516	11111	1.23	38338.7574	22221
8832	5.578	0.976	0.894	0.849	0.506	11111	1.10	38339.6266	44444
8832	5.570	1.004	0.862	0.826	0.512	11111	1.11	38339.6783	44444
8832	5.578	0.996	0.911	0.836	0.507	11111	1.10	38340.6627	11111
8832	5.562	1.024	0.869	0.824	0.493	11111	1.17	38340.7282	11111
8832	5.570	1.016	0.856	0.829	0.514	11111	1.10	38342.6557	21111
8832	5.569	0.987	0.887	0.833	0.510	11111	1.10	38343.6198	44444
8832	5.570	1.010	0.890	0.830	0.500	11111	1.19	38348.7144	23333
8832	5.556	1.009	0.939	0.818	0.502	11111	1.15	38365.6471	44444
8832	5.577	1.000	0.879	0.836	0.510	11111	1.12	38366.6213	44444
8832	5.661	0.991	0.876	0.862	0.510	11111	1.10	38367.5667	44444
8832	5.567	0.994	0.912	0.000	0.000	11100	1.21	38552.9682	22200
8832	5.581	0.996	0.878	0.840	0.503	11111	1.95	38555.8297	44444
8832	5.570	1.012	0.878	0.822	0.497	11111	1.21	38555.9603	44444
8832	5.577	1.008	0.878	0.840	0.500	11111	2.09	38556.8149	44444
8832	5.588	1.003	0.885	0.850	0.503	11111	1.22	38556.9551	44444
8832	5.573	1.006	0.870	0.828	0.522	11111	1.99	38557.8207	44444
8832	5.573	1.000	0.890	0.818	0.494	11111	1.20	38560.9506	22222
8832	5.544	1.012	0.864	0.771	0.511	11111	1.19	38561.9527	22222
8832	5.550	1.020	0.864	0.799	0.509	11111	1.19	38562.9516	22222
8832	5.587	1.019	0.872	0.826	0.522	11111	1.20	38566.9323	22222
8832	5.551	1.002	0.885	0.786	0.526	11111	1.18	38567.9396	22222
8832	5.622	0.994	0.878	0.863	0.515	11111	1.24	38568.9148	22222
8832	5.599	1.035	0.912	0.837	0.514	11111	1.67	38579.7950	22222
8832	5.576	0.985	0.885	0.850	0.500	11111	1.46	38579.8275	22222
8832	5.555	1.005	0.890	0.811	0.538	11111	1.10	38637.8467	44444
8832	5.550	1.052	0.860	0.799	0.529	11111	1.21	38638.9276	44444
8832	5.585	1.001	0.869	0.839	0.527	11111	1.11	38639.8017	44444
8832	5.514	0.985	0.905	0.809	0.532	11111	1.11	38641.7966	22222
8832	5.570	1.010	0.000	0.830	0.500	11011	1.10	38656.7747	22122
8832	5.587	1.016	0.897	0.840	0.514	11111	1.12	38658.7306	22222
8832	5.588	1.012	0.863	0.848	0.517	11111	1.10	38658.7732	22222
8832	5.553	0.986	0.869	0.831	0.513	11111	1.19	38658.8657	22222
8832	5.570	1.010	0.890	0.830	0.500	11111	1.22	38659.6706	22222
8832	5.576	0.985	0.895	0.815	0.530	11111	1.11	38668.7217	44444
8832	5.564	0.995	0.852	0.855	0.513	11111	1.10	38669.7514	44444
8832	5.557	0.968	0.878	0.827	0.522	11111	1.10	38670.7431	44444
8832	5.590	0.995	0.913	0.828	0.536	11111	1.10	38671.7316	44444
8832	5.562	0.999	0.889	0.824	0.522	11111	1.12	38673.7741	44444
8832	5.559	1.001	0.870	0.812	0.525	11111	1.86	38673.9545	44444
8832	5.544	0.971	0.884	0.816	0.530	11111	1.16	38674.6618	44444
8832	5.576	0.989	0.878	0.836	0.543	11111	1.12	38676.6818	44444
8832	5.574	1.004	0.876	0.838	0.522	11111	1.10	38677.7463	22222
8832	5.560	0.982	0.887	0.829	0.510	11111	1.11	38678.6861	44444
8832	5.507	0.983	0.869	0.820	0.515	11111	1.10	38679.7042	22222
8832	5.589	1.002	0.897	0.851	0.520	11111	1.10	38680.7099	44444
8832	5.571	1.006	0.912	0.836	0.524	11111	1.10	38682.7317	44444
8832	5.570	1.010	0.890	0.830	0.500	11111	1.10	38696.6581	22222
8832	5.581	1.005	0.867	0.863	0.527	11111	1.12	38699.7023	22222
8832	5.554	1.000	0.873	0.845	0.516	11111	1.10	38700.6782	44444
8832	5.570	1.010	0.890	0.830	0.500	11111	1.17	38701.7398	22222
8832	5.528	1.003	0.877	0.000	0.000	11100	1.17	38703.5764	44400
8832	5.580	1.001	0.895	0.000	0.000	11100	1.11	38703.6867	44400
8832	5.581	0.976	0.899	0.838	0.532	11111	1.18	38708.7223	44444
8832	5.575	0.990	0.890	0.828	0.523	11111	1.10	38711.6302	44444
8832	5.583	0.985	0.899	0.851	0.509	11111	1.13	38712.5761	44444
8832	5.595	0.992	0.912	0.859	0.520	11111	1.11	38719.6470	44444
8832	5.576	0.982	0.825	0.925	0.443	11111	1.10	38720.6234	44444
8832	5.568	0.987	0.877	0.855	0.516	11111	1.10	38725.5874	22222
8832	5.595	0.965	0.882	0.909	0.499	11111	1.14	38727.6461	22222
8832	5.585	0.987	0.885	0.856	0.512	11111	1.11	38728.5590	44444
8832	5.601	0.987	0.892	0.869	0.523	11111	1.10	38729.5817	44444
8832	5.575	1.018	0.866	0.826	0.492	11111	1.89	38871.9697	44444
8832	5.571	1.010	0.886	0.000	0.000	11100	2.07	38899.8769	44400
8832	5.600	1.010	0.819	0.000	0.000	11100	1.29	38900.9875	44400
8832	5.571	1.004	0.847	0.845	0.472	11111	1.37	38906.9501	44444
8832	5.553	1.018	0.880	0.821	0.503	11111	2.20	38908.8423	44444
8832	5.596	1.009	0.882	0.843	0.511	11111	1.30	38908.9637	44444
8832	5.557	1.012	0.884	0.814	0.499	11111	2.05	38910.8484	44444
8832	5.612	0.993	0.904	0.860	0.505	11111	1.29	38910.9595	44444
8832	5.586	1.003	0.885	0.845	0.502	11111	2.15	38911.8378	44444
8832	5.580	1.010	0.866	0.834	0.513	11111	2.17	38912.8341	44444
8832	5.563	1.011	0.876	0.820	0.502	11111	2.20	38930.7826	44444
8832	5.596	0.986	0.878	0.850	0.508	11111	1.21	38930.9327	44444
8832	5.569	1.017	0.877	0.818	0.506	11111	2.06	38931.7903	44444
8832	5.575	1.025	0.874	0.819	0.509	11111	1.44	38931.8675	44444
8832	5.597	0.993	0.899	0.866	0.491	11111	1.24	38931.9205	44444
8832	5.565	1.037	0.869	0.821	0.504	11111	2.13	38932.7825	44444
8832	5.633	0.981	0.912	0.841	0.470	11111	1.28	38932.9031	44444
8832	5.574	1.010	0.890	0.832	0.500	11111	2.03	38933.7877	44444
8832	5.577	0.991	0.883	0.842	0.488	11111	1.29	38934.8955	22222
8832	5.571	1.006	0.888	0.825	0.528	11111	1.85	38936.7960	44444
8832	5.569	1.007	0.883	0.839	0.488	11111	2.06	38937.7741	44444
8832	5.583	0.990	0.895	0.827	0.511	11111	1.41	38937.8564	44444
8832	5.570	1.004	0.902	0.816	0.515	11111	1.15	38937.9418	44444
8832	5.551	1.003	0.881	0.813	0.503	11111	2.19	38938.7612	44444
8832	5.592	0.985	0.901	0.833	0.523	11111	1.14	38938.9407	44444
8832	5.580	0.999	0.900	0.844	0.489	11111	1.13	38939.9505	44444
8832	5.571	1.004	0.890	0.838	0.505	11111	2.04	38940.7674	44444
8832	5.599	1.003	0.897	0.838	0.519	11111	1.11	38940.9712	44444
8832	5.570	1.010	0.890	0.830	0.500	11111	1.41	38943.8405	22222
8832	5.500	0.956	0.850	0.809	0.475	11111	1.38	38944.8443	44444
8832	5.535	0.987	0.862	0.826	0.507	11111	1.12	38944.9507	44444
8832	5.525	0.997	0.883	0.798	0.518	11111	1.10	38992.8499	44444
8832	5.588	1.036	0.892	0.856	0.529	11111	1.25	38992.9726	44444
8832	5.582	0.994	0.852	0.843	0.504	11111	1.17	38360.6684	44444
8832	5.565	1.012	0.890	0.806	0.527	11111	1.51	38993.6859	22222
8832	5.575	0.975	0.893	0.872	0.520	11111	1.28	38993.7377	22222
8832	5.534	1.004	0.867	0.797	0.530	11111	1.45	38995.6899	44444
8832	5.594	0.997	0.980	0.821	0.524	11111	1.10	38995.8599	44444
8832	5.549	0.979	0.909	0.840	0.510	11111	1.32	38996.7186	22222
8832	5.513	0.984	0.871	0.819	0.522	11111	1.50	38997.6754	44444
8832	5.630	1.018	0.918	0.860	0.531	11111	1.10	38997.8449	44444

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8832	5.564	1.000	0.908	0.841	0.490	11111	1.55	39000.6596	22222
8832	5.576	1.020	0.872	0.819	0.510	11111	1.26	39000.7245	22222
8832	5.583	0.994	0.925	0.803	0.537	11111	1.10	39004.8405	44444
8832	5.561	1.008	0.850	0.000	0.000	11100	1.10	39013.7982	22200
8832	5.546	1.007	0.898	0.000	0.000	11100	1.18	39016.7125	44400
8832	5.506	0.997	0.911	0.000	0.000	11100	1.10	39016.7840	44400
8832	5.557	1.000	0.884	0.807	0.529	11111	1.14	39018.8504	44444
8832	5.574	0.978	0.883	0.818	0.518	11111	1.23	39019.6823	44444
8832	5.564	0.989	0.864	0.000	0.000	11100	1.14	39024.7158	44400
8832	5.565	0.985	0.878	0.803	0.523	11111	1.10	39025.7618	44444
8832	5.561	1.008	0.882	0.000	0.000	11100	1.17	39026.6896	44400
8832	5.568	0.998	0.884	0.000	0.000	11100	1.12	39026.8137	44400
8832	5.570	1.010	0.890	0.830	0.500	11111	1.25	39027.6546	22222
8832	5.597	0.994	0.892	0.840	0.523	11111	1.12	39028.7228	44444
8832	5.559	0.995	0.880	0.775	0.489	11111	1.10	39029.7384	22222
8832	5.560	1.013	0.879	0.838	0.494	11111	1.20	39031.6633	44444
8832	5.573	1.004	0.889	0.828	0.501	11111	1.10	39031.7604	44444
8832	5.556	0.986	0.896	0.000	0.000	11100	1.49	39032.5825	44400
8832	5.571	1.012	0.887	0.830	0.490	11111	1.35	39032.6109	44444
8832	5.585	0.990	0.903	0.835	0.526	11111	1.11	39032.7159	44444
8832	5.569	1.015	0.882	0.000	0.000	11100	1.12	39032.7959	44400
8832	5.561	0.980	0.898	0.825	0.533	11111	1.46	39033.5842	44444
8832	5.573	0.985	0.901	0.840	0.524	11111	1.21	39033.6518	44444
8832	5.575	1.003	0.889	0.847	0.515	11111	1.10	39033.7383	44444
8832	5.576	1.000	0.880	0.000	0.000	11100	1.11	39033.7784	44400
8832	5.555	1.003	0.893	0.816	0.518	11111	1.43	39034.5875	44444
8832	5.590	1.000	0.883	0.000	0.000	11100	1.10	39034.7328	44400
8832	5.582	0.994	0.897	0.835	0.527	11111	1.10	39034.7424	44444
8832	5.580	0.967	0.887	0.844	0.550	11111	1.15	39035.6753	44444
8832	5.576	0.985	0.899	0.810	0.533	11111	1.10	39036.7529	44444
8832	5.579	0.993	0.875	0.821	0.540	11111	1.18	39037.8246	44444
8832	5.575	1.004	0.888	0.825	0.529	11111	1.12	39038.7769	44444
8832	5.576	0.996	0.886	0.812	0.513	11111	1.20	39040.6386	22222
8832	5.560	0.984	0.892	0.818	0.519	11111	1.13	39041.6710	44444
8832	5.583	0.967	0.915	0.853	0.529	11111	1.20	39042.8184	44444
8832	5.587	0.988	0.899	0.838	0.528	11111	1.14	39045.7749	44444
8832	5.586	0.997	0.885	0.847	0.506	11111	1.10	39055.6724	44444
8832	5.574	1.003	0.887	0.836	0.514	11111	1.10	39056.6750	44444
8832	5.599	0.986	0.890	0.882	0.545	11111	1.10	39057.6613	44444
8832	5.613	1.021	0.877	0.852	0.534	11111	1.11	39058.6491	44444
8832	5.582	0.993	0.879	0.860	0.524	11111	1.24	39059.7882	22222
8832	5.570	0.997	0.861	0.813	0.526	11111	1.19	39060.5876	44444
8832	5.584	0.993	0.875	0.821	0.525	11111	1.20	39061.5802	44444
8832	5.572	0.991	0.871	0.831	0.527	11111	1.17	39062.5911	44444
8832	5.581	1.001	0.878	0.839	0.537	11111	1.15	39063.5986	44444
8832	5.595	0.991	0.887	0.832	0.526	11111	1.10	39064.6660	44444
8832	5.567	1.009	0.867	0.807	0.532	11111	1.14	39065.6023	44444
8832	5.576	0.980	0.895	0.855	0.516	11111	1.11	39066.6290	44444
8832	5.577	0.970	0.916	0.866	0.497	11111	1.13	39066.7129	44444
8832	5.583	0.984	0.899	0.840	0.527	11111	1.18	39068.5704	44444
8832	5.577	0.996	0.891	0.842	0.518	11111	1.11	39068.6807	44444
8832	5.576	0.979	0.896	0.827	0.521	11111	1.10	39069.6301	44444
8832	5.558	1.019	0.884	0.797	0.549	11111	1.10	39091.5710	22222
8832	5.554	0.990	0.904	0.821	0.535	11111	1.11	39093.5528	44444
8832	5.516	0.992	0.859	0.840	0.505	11111	1.11	39096.6074	44444
8832	5.593	0.965	0.897	0.869	0.509	11111	1.21	39098.6689	44444
8832	5.563	0.995	0.886	0.821	0.517	11111	1.12	39099.6098	44444
8832	5.567	0.977	0.918	0.838	0.502	11111	1.11	39100.5955	44444
8832	5.536	0.981	0.864	0.787	0.528	11111	1.30	39129.5773	44444
8834	4.213	1.567	1.908	1.286	1.078	11111	1.83	38387.6412	44444
8834	4.168	1.528	1.898	1.279	1.064	11111	1.76	38390.6265	22222
8834	4.293	1.555	1.807	1.281	1.082	11111	2.15	38406.6100	43333
8841	4.240	1.111	1.005	0.791	0.565	11111	1.35	38305.7621	44444
8841	4.257	1.089	0.959	0.736	0.575	11111	2.52	38406.6203	43333
8841	4.255	1.123	1.075	0.825	0.552	11111	2.11	38408.5954	44444
8852	3.678	0.901	0.598	0.709	0.526	11111	1.78	38387.6620	44444
8852	3.661	0.896	0.537	0.738	0.501	11111	1.58	38390.6357	22222
8852	3.744	0.906	0.517	0.697	0.529	11111	2.09	38406.6296	43333
8858	4.440	-0.117	-0.472	-0.074	-0.145	11111	2.21	38408.6025	44444
8858	4.387	-0.133	-0.571	-0.062	-0.122	11111	1.36	38637.8593	44444
8858	4.397	-0.154	-0.571	-0.065	-0.134	11111	1.41	38671.7919	44444
8860	4.861	1.667	1.963	1.435	1.259	11111	1.06	38269.8831	44443
8860	4.852	1.671	1.987	1.487	1.298	11111	1.04	38306.7468	44444
8872	4.766	0.839	0.496	0.635	0.457	11111	1.25	38269.8894	44443
8872	4.762	0.834	0.492	0.657	0.448	11111	1.45	38383.6783	44444
8880	4.591	0.168	0.135	0.179	0.099	11111	1.01	38310.7418	44444
8880	4.594	0.162	0.042	0.238	0.096	11111	1.35	38390.6457	22222
8880	4.609	0.178	0.125	0.206	0.087	11111	1.45	38408.6107	44444
8892	3.955	1.120	0.932	0.822	0.588	11111	1.75	38681.7673	44444
8892	4.022	1.104	0.980	0.842	0.602	11111	1.79	38682.7724	44444
8892	3.949	1.089	0.924	0.810	0.595	11111	1.69	38700.6988	44444
8905	4.404	0.598	0.096	0.530	0.317	11111	1.39	38390.6551	22222
8905	4.444	0.609	0.193	0.530	0.319	11111	1.49	38408.6187	44444
8905	4.431	0.617	0.162	0.548	0.319	11111	1.02	38637.8689	44444
8906	4.388	1.500	1.789	1.140	0.792	11111	1.79	38681.7740	44444
8906	4.406	1.492	1.812	1.145	0.813	11111	1.84	38682.7792	44444
8906	4.363	1.485	1.763	1.116	0.821	11111	1.74	38700.7094	44444
8911	4.951	0.046	-0.026	0.071	-0.039	11111	1.19	38639.8650	44444
8911	4.973	0.038	-0.013	0.095	-0.025	11111	1.43	38674.8396	44444
8911	4.919	0.047	-0.028	0.055	-0.035	11111	1.24	38677.7886	22222
8911	4.940	0.024	-0.069	0.103	-0.019	11111	1.58	38773.5890	44444
8911	4.941	0.013	-0.034	0.048	-0.049	11111	2.06	38784.5958	44444
8911	4.919	0.027	-0.026	0.051	-0.052	11111	2.00	38786.5870	44444
8916	4.367	1.098	1.129	0.858	0.558	11111	1.28	38408.6541	44444
8916	4.273	1.079	0.985	0.774	0.540	11111	1.14	38639.8732	44444
8916	4.263	1.077	0.965	0.758	0.514	11111	1.25	38671.8268	44444

TABLE 4 CATALINA UBVRI OBSERVATIONS

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8923	4.546	0.951	0.743	0.709	0.471	11111	1.84	38408.6353	44444
8923	4.566	0.942	0.736	0.759	0.441	11111	1.09	38637.8832	44444
8926	4.903	-0.138	-0.656	-0.005	-0.132	11111	1.39	38383.6891	44444
8926	4.987	-0.127	-0.604	0.010	-0.181	11111	1.15	38637.9033	44444
8926	4.912	-0.097	-0.665	0.030	-0.111	11111	1.28	38673.8663	44444
8939	4.723	0.032	0.011	0.062	0.018	11111	1.71	38669.7876	44444
8939	4.661	0.968	-0.798	0.079	0.034	00011	1.88	38681.7907	44444
8939	4.766	0.025	0.024	0.065	0.035	11111	1.86	38682.7861	44444
8939	4.686	0.018	-0.018	0.069	0.023	11111	1.78	38700.7213	44444
8947	5.587	0.134	0.065	0.105	0.066	11111	1.01	38995.8686	44444
8947	5.613	0.122	0.079	0.119	0.048	11111	1.03	38997.8998	44444
8961	3.776	1.002	0.720	0.783	0.579	11111	1.03	38291.7930	34421
8961	3.728	1.022	0.726	0.770	0.572	11111	1.05	38343.6935	44444
8965	4.275	-0.100	-0.256	-0.009	-0.100	11111	1.02	38291.7994	34421
8965	4.321	-0.127	-0.303	0.019	-0.087	11111	1.39	38383.6994	44444
8965	4.282	-0.091	-0.308	-0.008	-0.069	11111	1.57	38400.6774	44444
8969	4.130	0.503	0.013	0.462	0.337	11111	1.11	37563.7863	22222
8969	4.134	0.492	0.011	0.445	0.419	11111	1.17	37565.7144	22222
8969	4.143	0.499	0.016	0.439	0.296	11111	1.14	38305.7884	44444
8969	4.121	0.510	0.036	0.424	0.291	11111	1.12	38310.7476	44444
8974	3.196	1.049	0.922	0.715		11110	1.41	38224.9700	44444
8974	3.197	1.028	0.986			11100	1.41	38291.8052	34421
8974					0.498	00001	1.41	38291.8117	34421
8974	3.234	1.024	0.941	0.774	0.525	11111	1.64	38383.7209	44444
8974	3.207	1.033	0.913	0.754	0.514	11111	1.46	38671.8399	44444
8976	4.156	-0.091	-0.208	-0.007	-0.088	11111	1.43	38383.7083	44444
8976	4.143	-0.072	-0.226	-0.009	-0.060	11111	1.61	38400.6843	44444
8982	4.745	1.680	-0.259	0.600	0.423	00011	1.57	38305.7694	44444
8982	4.834	0.812	0.491	0.631	0.413	11111	1.75	38681.7976	44444
8982	4.839	0.815	0.489	0.625	0.417	11111	1.74	38682.7942	44444
8984	4.467	0.265	0.056	0.152	0.108	11111	1.21	38638.8945	44444
8984	4.485	0.210	0.104	0.202	0.099	11111	1.21	38641.8870	22222

CATALINA UBVRI DATA

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8988	4.493	-0.051	-0.114	0.006	-0.068	11111	1.51	38639.8815	44444
8988	4.509	-0.034	-0.156	0.034	-0.048	11111	1.67	38681.8052	44444
8988	4.529	-0.038	-0.123	0.035	-0.058	11111	1.68	38682.8039	44444
8997	4.938	0.931	0.633	0.724	0.471	11111	1.00	38310.7531	44444
8997	4.928	0.998	0.623	0.689	0.490	11111	1.04	38638.9025	44444
9004	5.011	2.594	3.328	1.834	1.361	11111	1.39	38567.9492	22222
9004	5.094	2.530	3.384	1.935	1.336	11111	1.30	38568.9651	22222
9016	4.596	0.008	-0.014	0.042	-0.025	11111	2.04	38305.7752	44444
9016	4.544	0.001	-0.039	0.020	-0.023	11111	2.08	38357.6506	44444
9045	4.593	1.240	1.146	0.970	0.784	11111	1.10	38290.8010	44444
9045	4.614	1.288	1.144	0.948	0.727	11111	1.11	38305.7972	44444
9045	4.556	1.258	1.159	0.962	0.710	11111	1.10	38342.6781	21111
9064	4.648	1.601	1.625	1.471	1.335	11111	1.01	38305.7818	44444
9064	4.652	1.604	1.624	1.447	1.341	11111	1.01	38342.6668	21111
9071	4.931	-0.069	-0.839	0.060	-0.112	11111	1.10	38305.8074	44444
9071	4.831	-0.083	-0.762	0.051	-0.093	11111	1.09	38342.6963	21111
9071	4.914	-0.092	-0.877	0.068	-0.102	11111	1.09	38357.6277	44444
9071	4.856	-0.010	-0.839	-0.032	-0.110	11111	1.12	38638.9181	44444
9072	4.027	0.403	0.092	0.353	0.236	11111	1.11	38310.7587	44444
9072	3.986	0.416	0.075	0.423	0.250	11111	1.13	38342.7051	21111
9072	4.026	0.428	0.047	0.372	0.234	11111	1.13	38639.8902	44444
9089	4.434	1.621	1.821	1.577	1.412	11111	1.32	38342.7148	21111
9089	4.368	1.624	1.829	1.551	1.411	11111	1.28	38357.6388	44444
9089	4.420	1.642	1.872	1.542	1.403	11111	1.35	38639.9098	44444
9091	4.953	-0.207	-0.572	-0.100	-0.176	11111	2.26	38298.8351	22222
9091	5.000	-0.165	-0.532	-0.074	-0.117	11111	2.23	38307.8048	44444
9098	4.495	-0.055	-0.126	-0.009	-0.056	11111	1.58	38298.8227	22222
9098	4.549	-0.048	-0.093	0.003	-0.043	11111	1.55	38310.7643	44444
9098	4.579	-0.027	-0.107	0.062	-0.035	11111	1.71	38674.8285	44444
9098	4.571	-0.040	-0.139	0.025	-0.020	11111	1.72	38681.8121	44444
9098	4.605	-0.043	-0.115	0.051	-0.009	11111	1.73	38682.8110	44444

TABLE 5 CATALINA RI OBSERVATIONS

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
45	3.448	1.114	11	2.28	38936.8591	44
175	4.642	0.467	11	1.10	38999.8231	44
235	4.705	0.278	11	1.50	38999.8478	44
235	4.756	0.290	11	1.39	39004.8685	44
276	5.629	0.453	11	1.21	38999.8284	44
290	5.796	0.052	11	1.10	38999.8380	44
290	5.826	0.087	11	1.09	39004.8292	44
315	5.348	0.535	11	1.51	38999.8529	44
315	5.348	0.529	11	1.39	39004.8735	44
330	5.181	0.169	11	1.19	38999.8661	44
330	5.206	-0.181	00	1.18	39004.8561	44
378	5.050	0.040	11	1.22	38999.8709	44
378	5.059	0.040	11	1.21	39004.8610	44
461	4.582	0.706	11	1.22	38999.8428	44
461	4.604	0.724	11	1.20	39004.8395	44
485	5.224	0.507	11	1.07	38999.8756	44
485	5.223	0.537	11	1.12	39004.8440	44
530	5.212	0.490	11	1.10	38999.8797	44
530	5.189	0.506	11	1.16	39004.8485	44
534	5.617	0.182	11	1.17	38999.8840	44
534	5.621	0.190	11	1.15	39004.8777	44
599	5.449	0.024	11	1.07	38999.8888	44
599	5.441	0.048	11	1.02	39003.9839	22
599	5.440	0.037	11	1.04	39004.8950	44
617	1.202	0.569	11	2.06	38446.6706	44
617	1.162	0.666	11	2.27	38999.7603	44
617	1.172	0.629	11	1.49	38999.8131	44
617	1.183	0.630	11	1.20	38999.8617	44
617	1.101	0.600	11	1.02	38999.9499	44
617	1.230	0.660	11	1.26	39000.8446	22
617	1.156	0.631	11	1.01	39003.9421	22
617	1.161	0.621	11	1.04	39003.9922	22
617	1.171	0.627	11	1.38	39004.8139	44
617	1.174	0.635	11	1.18	39004.8519	44
617	1.178	0.636	11	1.03	39004.9144	44
617	1.172	0.627	11	1.02	39004.9253	44
617	1.173	0.635	11	1.02	39004.9366	44
647	5.710	0.240	11	1.10	38999.8929	44
647	5.670	0.259	11	1.05	39003.9887	22
647	5.665	0.240	11	1.08	39004.8905	44
710	5.591	0.051	11	1.52	38999.9450	44
710	5.697	0.040	11	1.49	39003.9758	22
710	5.709	0.047	11	1.62	39004.9045	44
753	0.008	0.496	01	2.13	38443.6757	44
875	5.069	0.031	11	2.18	38443.6705	44
875	5.076	0.036	11	2.51	38999.8332	44
875	5.025	0.085	11	1.99	38999.8575	44
875	4.980	0.055	11	1.24	38999.9909	44
875	5.058	0.066	11	1.24	39003.9799	22
875	5.102	0.071	11	2.15	39004.8348	44
875	5.076	0.068	11	1.71	39004.8647	44
875	5.070	0.068	11	1.45	39004.8992	44
875	5.074	0.084	11	1.39	39004.9110	44
875	5.063	0.060	11	1.24	39004.9693	44
875	5.068	0.067	11	1.24	39004.9719	44
985	4.858	-0.128	11	1.36	38460.6145	44
985	4.887	-0.126	11	1.37	38464.6072	44
1002	4.878	-0.008	11	1.12	38443.6250	44
1034	5.013	-0.132	11	1.12	38446.6103	44
1034	5.006	-0.112	11	1.13	38447.6122	44
1040	3.905	0.488	11	1.20	38443.6287	44
1044	4.668	-0.114	11	1.15	38443.6329	44
1044	4.685	-0.109	11	1.16	38445.6323	22
1046	5.023	0.008	11	1.27	38460.6177	44
1046	5.036	0.009	11	1.28	38464.6106	44
1046	5.064	-0.004	11	1.24	38469.5844	44
1052	3.301	0.708	11	1.15	38443.6355	44
1084	3.003	0.465	11	1.50	38446.6068	44
1084	3.004	0.452	11	1.53	38447.6094	44
1084	3.001	0.457	11	2.37	38447.6795	44
1084	3.022	0.454	11	1.57	38448.6142	44
1084	3.013	0.437	11	2.29	38448.6735	44
1084	2.991	0.435	11	1.78	38460.6066	44
1084	2.990	0.471	11	1.57	38461.5781	22
1084	2.960	0.411	11	1.83	38464.6002	44
1084	3.015	0.475	11	2.40	38464.6344	44
1084	3.013	0.444	11	2.33	38469.6181	44
1129	4.024	0.516	11	1.31	38460.6212	44
1129	4.055	0.537	11	1.32	38464.6135	44
1129	4.058	0.531	11	1.29	38469.5896	44
1131	3.723	-0.026	11	1.11	38443.6378	44
1135	3.347	0.252	11	1.12	38443.6400	44
1135	3.361	0.255	11	1.12	38445.6359	22
1145	4.316	-0.061	11	1.15	38443.6439	44
1149	3.840	-0.076	11	1.06	38445.6045	22

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
1156	4.102	-0.055	11	1.06	38445.6065	22
1178	3.605	-0.070	11	1.06	38445.6087	22
1204	4.961	-0.067	11	1.29	38460.6252	44
1204	4.969	-0.067	11	1.28	38469.5944	44
1212	3.849	0.391	11	1.45	38443.6484	44
1213	4.633	-0.160	11	2.03	38445.6138	22
1213	4.684	-0.125	11	2.09	38447.6153	44
1220	2.986	-0.235	11	1.11	38446.6373	44
1240	4.632	-0.139	11	1.99	38446.6139	44
1298	3.731	0.146	11	1.37	38446.6163	44
1303	3.378	0.537	11	1.08	38446.6212	44
1303	3.360	0.507	11	1.09	38447.6252	44
1311	4.179	0.451	11	1.15	38446.6187	44
1311	4.182	0.440	11	1.16	38447.6222	44
1325	3.737	0.462	11	1.40	38446.6240	44
1325	3.734	0.431	11	1.39	38447.6185	44
1329	4.708	0.095	11	1.08	38446.6260	44
1329	4.678	0.097	11	1.09	38447.6285	44
1346	2.881	0.445	11	1.48	38460.6674	44
1346	2.933	0.455	11	1.21	38469.5976	44
1373	3.036	0.466	11	1.13	38443.6522	44
1380	0.014	0.071	01	1.14	38443.6549	44
1380	4.682	0.069	11	1.10	38446.6337	44
1387	4.046	0.033	11	1.40	38460.6712	44
1387	4.081	0.056	11	1.17	38469.6045	44
1389	4.161	0.007	11	1.14	38443.6594	44
1389	4.213	0.006	11	1.11	38447.6351	44
1392	3.987	0.135	11	1.13	38443.6628	44
1392	4.016	0.140	11	1.15	38448.6566	44
1394	4.235	0.151	11	1.14	38461.6058	22
1394	4.239	0.123	11	1.32	38469.6247	44
1396	3.964	0.493	11	1.21	38448.6589	44
1396	3.963	0.493	11	1.50	38469.6492	44
1411	3.141	0.466	11	1.21	38448.6612	44
1412	0.000	0.084	01	1.21	38448.6625	44
1412	3.235	0.071	11	1.55	38469.6575	44
1427	4.604	0.061	11	1.22	38448.6663	44
1427	4.594	0.059	11	1.20	38464.6170	44
1427	4.641	0.051	11	1.50	38469.6536	44
1437	3.928	0.624	11	1.40	38460.6300	44
1479	4.514	0.080	11	1.13	38461.6094	22
1479	4.531	0.059	11	1.50	38469.6601	44
1481	3.016	0.575	11	1.54	38446.6287	44
1481	3.014	0.557	11	1.59	38447.6404	44
1496	2.700	1.413	11	1.72	38446.6309	44
1496	2.728	1.346	11	1.77	38447.6377	44
1497	4.300	-0.158	11	1.15	38448.6684	44
1497	4.333	-0.113	11	1.10	38461.6144	22
1497	4.316	-0.160	11	1.50	38469.6722	44
1520	4.091	-0.132	11	1.37	38461.6177	22
1520	4.081	-0.175	11	1.95	38469.6632	44
1544	4.289	-0.004	11	1.14	38446.6406	44
1544	4.277	0.005	11	1.16	38448.6420	44
1544	4.295	-0.019	11	1.61	38469.6663	44
1552	3.738	-0.149	11	1.23	38461.6212	22
1552	3.716	-0.176	11	1.26	38464.6201	44
1560	4.092	0.139	11	1.42	38461.6250	22
1560	4.079	0.151	11	1.46	38464.6231	44
1567	3.787	-0.222	11	1.21	38446.6433	44
1567	3.781	-0.201	11	1.22	38448.6399	44
1570	4.562	0.011	11	1.13	38446.6455	44
1570	4.537	0.027	11	1.14	38448.6442	44
1577	1.609	0.814	11	1.04	38446.6483	44
1592	4.910	0.067	11	1.12	38461.6446	22
1601	3.403	0.681	11	1.25	38443.6657	44
1601	3.480	0.703	11	1.21	38448.6375	44
1603	3.339	0.447	11	1.18	38444.6712	44
1603	3.350	0.442	11	1.16	38448.6469	44
1611	4.490	0.145	11	1.59	38444.6736	44
1611	4.494	0.141	11	1.49	38447.6441	44
1611	4.513	0.121	11	1.75	38469.6280	44
1617	4.879	-0.186	11	1.45	38461.6287	22
1617	4.899	-0.215	11	1.64	38469.6358	44
1621	4.878	-0.046	11	1.89	38444.6760	44
1676	4.470	0.190	11	1.13	38444.6787	44

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
1698	3.599	0.552	11	1.26	38444.6809	44
1702	3.272	-0.123	11	1.72	38444.6833	44
1702	3.289	-0.119	11	1.52	38448.6170	44
1702	3.330	-0.115	11	1.86	38469.6333	44
1705	4.355	-0.081	11	1.60	38464.6267	44
1705	4.403	-0.098	11	1.78	38469.6384	44
1735	3.592	-0.105	11	1.46	38444.6905	44
1735	3.593	-0.114	11	1.30	38448.6192	44
1756	4.375	-0.271	11	1.66	38444.6951	44
1756	4.411	-0.269	11	1.44	38448.6218	44
1756	4.451	-0.300	11	1.77	38469.6413	44
1762	4.646	-0.043	11	2.02	38444.6980	44
1762	4.668	-0.031	11	1.75	38447.6469	44
1765	4.764	-0.189	11	1.19	38448.6247	44
1784	3.379	0.489	11	1.35	38446.6531	44
1784	3.400	0.490	11	1.32	38448.6274	44
1788	3.424	-0.229	11	1.26	38446.6554	44
1788	3.365	-0.220	11	1.43	38448.6054	44
1788	3.433	-0.184	11	1.40	38466.6402	44
1789	5.038	-0.259	11	1.20	38446.6580	44
1789	5.010	-0.244	11	1.36	38448.6773	44
1791	1.649	-0.114	11	1.17	38460.6778	44
1791	1.681	-0.090	11	1.00	38461.5869	22
1829	2.164	0.451	11	1.75	38446.6603	44
1829	2.160	0.472	11	1.72	38447.6490	44
1839	4.226	-0.134	11	1.16	38444.6684	44
1852	2.281	-0.228	11	1.33	38444.7010	44
1855	4.725	-0.271	11	1.31	38443.6118	44
1855	4.745	-0.289	11	2.41	38443.7802	44
1855	4.722	-0.266	11	1.33	38444.6567	44
1855	4.745	-0.255	11	1.66	38444.7281	44
1855	4.772	-0.280	11	2.41	38444.7775	44
1855	4.726	-0.286	11	1.31	38445.6010	22
1855	4.743	-0.307	11	1.31	38446.6038	44
1855	4.752	-0.283	11	1.31	38447.6316	44
1855	4.727	-0.257	11	2.13	38447.7561	44
1855	4.738	-0.303	11	2.08	38448.7510	44
1855	4.739	-0.296	11	2.30	38449.7591	44
1855	4.720	-0.274	11	1.32	38460.6098	44
1855	4.724	-0.288	11	1.70	38460.6878	44
1855	4.747	-0.251	11	1.30	38461.5819	22
1855	4.736	-0.270	11	1.45	38461.6488	22
1855	4.732	-0.279	11	1.33	38464.6031	44
1855	4.734	-0.285	11	1.65	38464.6719	44
1855	4.735	-0.261	11	2.03	38464.7038	44
1855	4.712	-0.299	11	1.38	38466.6187	44
1855	4.795	-0.282	11	2.21	38466.7087	44
1855	4.756	-0.317	11	1.57	38468.6500	44
1855	4.788	-0.300	11	2.13	38468.6990	44
1868	5.401	-0.188	11	1.36	38444.7038	44
1868	5.422	-0.218	11	1.39	38448.6997	44
1876	4.390	-0.166	11	1.22	38444.7069	44
1876	4.417	-0.189	11	1.24	38448.7017	44
1899	2.821	-0.242	11	1.48	38444.7094	44
1903	1.704	-0.186	11	1.39	38444.7123	44
1903	1.739	-0.207	11	1.42	38448.7059	44
1907	3.294	0.516	11	1.25	38444.7149	44
1907	3.331	0.535	11	1.25	38448.7038	44
1931	3.875	-0.237	11	1.46	38444.7213	44
1934	4.529	-0.099	11	1.22	38444.6927	44
1934	4.547	-0.133	11	1.17	38446.6628	44
1946	4.860	-0.150	11	1.19	38448.7087	44
1946	4.862	-0.121	11	1.14	38466.6448	44
1948	1.817	-0.236	11	1.46	38448.7142	44
1983	3.112	0.275	11	1.80	38446.6456	44
1983	3.133	0.262	11	1.76	38447.6517	44
1983	3.155	0.240	11	2.08	38469.6456	44
1998	3.404	0.023	11	1.80	38460.6812	44
1998	3.440	0.054	11	1.62	38464.6447	44
1998	3.439	0.033	11	1.68	38466.6481	44
2004	2.081	-0.207	11	1.65	38460.6844	44
2010	4.871	-0.087	11	1.21	38448.7115	44
2010	4.876	-0.077	11	1.27	38460.6913	44
2010	4.930	-0.049	11	1.06	38461.5907	22
2011	3.374	1.044	11	1.24	38444.7606	44
2011	3.395	1.080	11	1.13	38448.7212	44
2012	3.147	0.543	11	1.25	38444.7635	44
2012	3.164	0.549	11	1.26	38448.7552	44
2029	4.935	0.017	11	1.14	38464.6521	44
2029	4.897	0.031	11	1.16	38466.6580	44
2034	4.577	-0.025	11	1.17	38460.6948	44
2034	4.521	0.011	11	1.09	38466.6552	44

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
2035	3.003	0.578	11	1.67	38448.6300	44
2035	3.004	0.570	11	1.86	38464.6483	44
2035	2.981	0.532	11	1.84	38469.6302	44
2047	3.880	0.302	11	1.16	38448.7168	44
2047	3.888	0.290	11	1.29	38449.7434	44
2077	2.964	0.498	11	1.27	38444.7671	44
2077	2.969	0.499	11	1.29	38444.7712	44
2077	2.994	0.526	11	1.28	38448.7580	44
2077	0.000	0.502	01	1.25	38449.7486	44
2077	2.984	0.493	11	1.27	38449.7536	44
2084	4.780	-0.124	11	1.13	38448.7191	44
2084	4.784	-0.124	11	1.25	38449.7462	44
2085	3.380	0.165	11	1.45	38448.6323	44
2085	3.388	0.169	11	1.62	38464.6553	44
2085	3.393	0.155	11	1.70	38466.6613	44
2128	4.960	-0.106	11	1.48	38443.7080	44
2244	5.019	-0.056	11	1.54	38443.7108	44
2244	4.965	-0.052	11	1.44	38448.6350	44
2286	1.305	1.392	11	1.06	38443.7138	44
2286	1.315	1.373	11	1.26	38444.7743	44
2294	2.083	-0.248	11	1.69	38443.7177	44
2294	2.097	-0.253	11	1.81	38448.7240	44
2298	4.175	0.081	11	1.28	38448.7311	44
2298	4.062	0.091	11	1.30	38448.7344	44
2310	5.122	0.617	11	1.21	38468.6659	44
2310	5.134	0.635	11	1.32	38469.6885	44
2332	4.777	0.286	11	1.08	38468.6707	44
2332	4.788	0.332	11	1.12	38469.6837	44
2356	3.752	-0.153	11	1.54	38448.7414	44
2356	3.806	-0.159	11	1.49	38460.7010	44
2356	3.762	-0.156	11	1.40	38466.6657	44
2385	4.379	0.041	11	1.25	38448.7372	44
2385	4.391	0.035	11	1.57	38449.7853	44
2387	4.453	-0.271	11	1.91	38443.7208	44
2387	4.447	-0.280	11	2.05	38448.7269	44
2414	4.501	-0.029	11	1.89	38443.7236	44
2414	4.501	-0.003	11	1.85	38464.6588	44
2450	3.892	0.671	11	1.68	38460.7058	44
2450	3.742	0.763	11	1.52	38464.6618	44
2456	4.754	-0.252	11	1.50	38449.7882	44
2456	4.835	-0.212	11	1.23	38460.7115	44
2456	4.755	-0.220	11	1.15	38466.6690	44
2470	4.749	0.042	11	1.27	38444.7892	44
2470	4.756	0.009	11	1.34	38449.7972	44
2470	4.756	0.042	11	1.17	38466.6817	44
2473	2.082	0.607	11	1.23	38444.7858	44
2478	3.639	0.573	11	1.45	38449.7906	44
2478	3.620	0.592	11	1.12	38466.6726	44
2564	4.308	0.175	11	1.32	38444.7919	44
2571	4.921	-0.221	11	1.72	38443.7264	44
2571	4.963	-0.215	11	1.70	38464.6649	44
2571	4.943	-0.249	11	1.72	38468.6579	44
2574	2.952	0.764	11	1.47	38443.7302	44
2574	2.981	0.835	11	1.45	38464.6677	44
2574	2.956	0.761	11	1.53	38466.6851	44
2590	4.318	0.202	11	1.74	38443.7339	44
2590	4.289	0.203	11	1.65	38447.6904	44
2590	4.320	0.180	11	1.72	38468.6608	44
2596	4.338	-0.082	11	1.63	38443.7365	44
2596	4.327	-0.062	11	1.54	38447.6845	44
2781	5.215	-0.137	11	1.90	38443.7403	44
2781	5.136	-0.126	11	1.83	38447.6999	44
2782	4.521	-0.165	11	1.95	38443.7461	44
2782	4.508	-0.209	11	1.90	38446.7253	44
2812	4.884	-0.071	11	1.64	38446.7285	44
2812	4.923	-0.011	11	1.60	38447.6953	44
2874	4.535	0.266	11	1.80	38446.7309	44
2874	4.555	0.283	11	1.76	38447.7059	44
2906	3.933	0.271	11	1.76	38446.7336	44
2906	3.956	0.281	11	1.73	38447.7095	44
2944	4.653	-0.108	11	1.91	38446.7365	44
2944	4.687	-0.065	11	1.87	38447.7137	44
3034	4.315	-0.072	11	1.93	38446.7385	44
3034	4.352	-0.019	11	1.90	38447.7176	44
3045	2.455	0.560	11	1.87	38446.7407	44
3045	2.471	0.537	11	1.84	38447.7215	44
3102	3.580	0.375	11	1.77	38446.7434	44
3102	3.603	0.378	11	1.75	38447.7258	44
3249	2.412	0.778	11	1.48	38443.6167	44
3249	2.401	0.779	11	1.09	38443.7562	44

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
3249	2.392	0.773	11	1.11	38443.7736	44
3249	2.408	0.782	11	1.99	38443.9086	44
3249	2.421	0.787	11	1.20	38444.6656	44
3249	2.402	0.780	11	1.09	38444.7309	44
3249	2.394	0.778	11	1.61	38445.5976	22
3249	2.410	0.810	11	1.64	38446.5916	44
3249	2.389	0.798	11	1.34	38446.8375	44
3249	2.402	0.793	11	1.55	38447.5984	44
3249	2.401	0.787	11	1.09	38447.7299	44
3249	2.414	0.784	11	1.09	38448.7444	44
3249	2.442	0.778	11	1.09	38449.7366	44
3249	1.683	0.751	11	1.18	38449.7934	44
3249	2.410	0.789	11	1.09	38460.7148	44
3249	2.397	0.779	11	1.12	38461.6531	22
3249	2.406	0.812	11	1.09	38464.6753	44
3249	2.423	0.792	11	1.12	38466.6359	44
3249	0.000	0.000	00	1.09	38466.6899	44
3249	2.393	0.760	11	1.12	38466.7190	44
3249	2.437	0.772	11	1.10	38468.6528	44
3249	2.422	0.749	11	1.09	38468.6926	44
3249	2.415	0.780	11	1.14	38469.6219	44
3249	2.408	0.791	11	1.09	38469.6692	44
3441	4.073	0.533	11	1.53	38443.7878	44
3441	4.067	0.503	11	1.56	38444.7976	44
3441	4.058	0.532	11	1.50	38447.7385	44
3454	4.369	-0.192	11	1.75	38443.6205	44
3454	4.362	-0.181	11	1.15	38443.7765	44
3454	4.333	-0.200	11	1.16	38444.7830	44
3454	4.359	-0.163	11	2.12	38445.5922	22
3454	4.414	-0.172	11	1.98	38446.5969	44
3454	4.375	-0.162	11	1.83	38447.6038	44
3454	4.346	-0.186	11	1.14	38447.7420	44
3454	4.355	-0.199	11	1.14	38448.7471	44
3454	4.360	-0.240	11	2.05	38448.9061	44
3454	4.352	-0.203	11	1.14	38449.7398	44
3454	4.373	-0.164	11	1.14	38460.7190	44
3454	4.367	-0.182	11	1.15	38464.6786	44
3454	4.363	-0.176	11	1.14	38466.6934	44
3454	4.356	-0.168	11	1.16	38466.7242	44
3454	4.377	-0.199	11	1.14	38468.6951	44
3454	4.384	-0.194	11	1.14	38469.6920	44
3569	2.934	0.093	11	1.04	38443.7851	44
3569	2.920	0.094	11	1.05	38444.7947	44
3569	2.926	0.085	11	1.04	38447.7455	44
3662	4.613	0.100	11	1.09	38464.6940	44
3665	3.878	-0.038	11	1.18	38464.6910	44
3705	1.872	0.911	11	1.01	38464.7002	44
3706	4.072	0.478	11	1.43	38464.6970	44
3773	3.079	0.895	11	1.03	38466.6969	44
3773	3.091	0.873	11	1.05	38468.6801	44
3834	3.625	0.707	11	1.13	38443.7906	44
3834	3.638	0.700	11	1.13	38444.8003	44
3834	3.662	0.714	11	1.15	38448.8135	44
3845	2.899	0.668	11	1.17	38443.7943	44
3845	2.923	0.676	11	1.19	38448.8104	44
3845	2.931	0.652	11	1.18	38449.8003	44
3849	5.111	-0.130	11	1.50	38466.7002	44
3849	5.153	-0.153	11	1.54	38468.6830	44
3950	3.247	1.082	11	1.10	38443.7983	44
3950	3.291	1.115	11	1.10	38448.8161	44
3950	3.303	1.070	11	1.10	38449.8042	44
3982	1.358	-0.075	11	1.07	38443.8015	44
3982	1.364	-0.098	11	1.07	38448.8191	44
3982	1.359	-0.098	11	1.07	38449.8072	44
3994	2.883	0.482	11	1.50	38466.7038	44
3994	2.865	0.495	11	1.55	38468.6881	44
4031	3.105	0.203	11	1.05	38466.7127	44
4031	3.120	0.182	11	1.04	38468.8007	44
4090	4.448	0.153	11	1.04	38466.7159	44
4090	4.478	0.139	11	1.02	38468.8037	44
4166	4.029	0.392	11	1.02	38443.8066	44
4166	4.033	0.392	11	1.00	38448.8212	44
4166	4.047	0.379	11	1.00	38449.8105	44
4259	4.231	0.012	11	1.04	38443.8094	44
4259	4.235	0.007	11	1.01	38448.8358	44
4259	4.245	0.001	11	1.02	38449.8133	44
4299	3.398	0.973	11	1.27	38443.8122	44
4299	3.433	0.981	11	1.22	38448.8434	44
4299	3.427	0.934	11	1.22	38449.8226	44
4310	4.308	0.170	11	1.11	38468.8065	44
4310	4.311	0.170	11	1.10	38469.7934	44
4343	4.386	0.023	11	1.86	38443.8149	44
4343	4.389	0.000	11	1.74	38448.8535	44
4368	4.216	0.130	11	1.30	38443.8177	44
4368	4.216	0.117	11	1.23	38448.8468	44
4368	4.214	0.105	11	1.25	38449.8255	44
4374	3.152	0.343	11	1.03	38443.8198	44
4374	3.236	0.348	11	1.00	38448.8381	44
4374	3.246	0.331	11	1.02	38449.8164	44
4377	2.399	0.706	11	1.03	38443.8231	44
4377	2.437	0.711	11	1.00	38448.8406	44
4377	2.445	0.700	11	1.01	38449.8198	44

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
4386	4.050	-0.048	11	1.12	38468.8093	44
4386	4.040	-0.057	11	1.11	38469.7963	44
4405	3.852	0.111	11	1.63	38443.8267	44
4405	3.838	0.098	11	1.55	38448.8559	44
4456	6.023	-0.139	11	2.22	38443.6885	44
4456	6.047	-0.187	11	1.06	38443.9159	44
4456	6.010	-0.153	11	2.20	38444.6869	44
4456	6.005	-0.164	11	2.26	38446.6790	44
4456	6.014	-0.179	11	1.05	38446.8400	44
4456	6.044	-0.136	11	1.91	38448.6907	44
4456	5.994	-0.172	11	1.04	38448.8698	44
4456	6.004	-0.165	11	1.06	38449.8292	44
4456	6.059	-0.145	11	2.21	38460.6427	44
4456	6.041	-0.111	11	2.04	38464.6399	44
4456	6.011	-0.141	11	2.11	38466.6309	44
4456	5.987	-0.167	11	1.06	38468.8488	44
4456	6.033	-0.145	11	2.31	38469.6138	44
4456	5.992	-0.174	11	1.04	38469.7906	44
4456	6.020	-0.181	11	2.01	38469.9889	44
4456	5.993	-0.186	11	1.05	38904.6436	22
4456	6.007	-0.175	11	1.06	38906.6489	44
4456	6.010	-0.172	11	1.06	38908.6434	44
4456	6.020	-0.170	11	1.10	38910.6614	44
4456	6.025	-0.175	11	1.11	38911.6600	44
4456	6.014	-0.172	11	1.10	38912.6560	44
4456	6.031	-0.161	11	1.47	38940.6567	22
4456	6.142	-0.140	11	1.81	38944.6766	22
4518	2.808	0.600	11	1.04	38468.8120	44
4518	2.783	0.603	11	1.04	38469.7990	44
4534	2.042	0.039	11	1.05	38468.8148	44
4534	2.050	0.017	11	1.05	38469.8017	44
4540	3.110	0.271	11	1.16	38468.8176	44
4540	3.114	0.264	11	1.16	38469.8046	44
4550	0.008	0.480	01	2.05	38443.6799	44
4550	5.768	0.455	11	1.99	38443.6837	44
4550	5.766	0.437	11	1.01	38443.9187	44
4550	5.757	0.427	11	2.37	38444.6612	44
4550	5.739	0.460	11	1.86	38446.6843	44
4550	5.765	0.448	11	2.33	38448.6521	44
4550	5.767	0.441	11	1.01	38448.8728	44
4550	5.773	0.429	11	1.01	38449.8816	44
4550	5.764	0.458	11	1.97	38460.6385	44
4550	5.737	0.446	11	1.94	38466.6240	44
4550	5.747	0.468	11	1.02	38468.8519	44
4550	5.751	0.452	11	2.05	38469.6089	44
4550	5.783	0.434	11	1.01	38904.6506	22
4550	5.782	0.455	11	1.02	38906.6578	44
4550	5.779	0.436	11	1.02	38908.6549	44
4550	5.787	0.456	11	1.04	38910.6679	44
4550	5.816	0.458	11	1.05	38911.6666	44
4550	5.767	0.437	11	1.06	38912.6719	44
4550	5.808	0.446	11	1.28	38940.6640	22
4550	5.834	0.457	11	1.47	38944.6822	22
4775	3.938	0.175	11	1.50	38443.9214	44
4775	3.923	0.185	11	1.58	38448.8596	44
4789	4.741	-0.044	11	1.01	38443.9267	44
4789	4.710	-0.009	11	1.05	38448.8633	44
4789	4.712	-0.023	11	1.02	38449.8846	44
4902	3.198	1.334	11	1.34	38443.9240	44
4902	3.245	1.314	11	1.43	38448.8668	44
4910	1.795	1.324	11	1.16	38468.8363	44
4910	1.767	1.328	11	1.23	38469.9277	44
4920	3.438	0.969	11	1.05	38468.8391	44
4931	4.570	0.194	11	1.11	38468.8420	44
4931	4.578	0.197	11	1.14	38469.9315	44
4963	4.309	0.012	11	1.29	38468.8448	44
4963	4.332	-0.034	11	1.37	38469.9351	44
5095	3.232	1.165	11	1.31	38468.8552	44
5095	3.203	1.167	11	1.34	38469.9387	44
5105	4.861	-0.021	11	1.17	38468.8579	44
5105	4.852	-0.059	11	1.20	38469.9416	44
5185	4.061	0.250	11	1.07	38468.8605	44
5185	4.058	0.231	11	1.07	38469.9448	44
5219	3.136	1.249	11	1.03	38468.8628	44
5226	2.999	1.355	11	1.20	38468.8663	44
5264	4.110	0.080	11	1.21	38468.8691	44
5264	4.128	0.061	11	1.19	38469.9476	44
5340	-1.007	0.663	11	1.03	38448.9750	44
5340	-1.010	0.626	11	1.16	38449.8903	44
5490	3.303	1.249	11	1.01	38448.9788	44
5490	3.278	1.214	11	1.17	38449.8959	44
5570	4.162	0.166	11	1.43	38468.8719	44
5570	4.156	0.158	11	1.24	38469.9505	44
5601	3.627	0.561	11	1.16	38468.9558	44
5601	3.598	0.533	11	1.16	38469.9537	44
5685	2.630	-0.093	11	1.92	38443.9128	44
5685	2.638	-0.056	11	2.29	38449.8746	44
5685	2.640	-0.056	11	2.11	38468.8322	44
5685	2.648	-0.060	11	1.34	38468.9524	44
5685	2.658	-0.092	11	1.34	38469.9681	44
5685	2.680	-0.082	11	1.40	38904.7250	22
5685	2.651	-0.079	11	1.44	38904.8281	22

TABLE 5 CATALINA RI OBSERVATIONS

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
5685	2.657	-0.098	11	1.35	38905.7869	22
5685	2.647	-0.079	11	1.53	38906.6896	44
5685	2.614	-0.076	11	1.34	38910.7525	44
5685	2.636	-0.092	11	1.34	38911.7383	44
5685	2.674	-0.100	11	1.37	38912.7167	44
5685	2.643	-0.076	11	1.40	38930.6541	44
5685	2.623	-0.080	11	1.39	38936.6423	44
5685	2.630	-0.090	11	1.34	38937.6972	44
5685	2.653	-0.060	11	1.35	38939.6530	44
5854	1.793	0.564	11	2.08	38449.8694	44
5854	1.819	0.561	11	1.99	38468.8224	44
5854	1.824	0.578	11	1.11	38468.9815	44
5854	1.805	0.559	11	1.11	38469.9858	44
5854	1.848	0.565	11	1.19	38904.7319	22
5854	1.813	0.548	11	1.11	38905.7952	22
5854	1.853	0.574	11	1.16	38906.8313	44
5854	1.840	0.564	11	1.12	38912.7872	44
5854	1.849	0.559	11	1.19	38930.6605	44
5854	1.853	0.560	11	1.18	38936.6486	44
5854	1.876	0.552	11	1.14	38939.6594	44
5889	4.008	0.440	11	1.02	38468.9587	44
5947	3.245	0.653	11	2.50	38448.8313	44
5947	3.241	0.620	11	2.06	38468.7955	44
5947	3.254	0.628	11	1.02	38904.8361	22
5947	3.254	0.631	11	1.06	38905.8566	22
5947	3.261	0.630	11	1.03	38906.8383	44
5947	3.260	0.624	11	1.03	38908.8271	44
5947	3.249	0.615	11	1.01	38910.7591	44
5947	3.240	0.619	11	1.03	38911.7442	44
5947	3.269	0.622	11	1.02	38912.7510	44
5947	3.274	0.614	11	1.01	38936.6879	44
5947	3.245	0.618	11	1.01	38937.6903	44
5947	3.292	0.621	11	1.00	38939.7102	44
5947	3.292	0.659	11	1.02	38940.6700	22
5947	3.253	0.623	11	1.17	38940.7998	22
5947	3.277	0.635	11	1.00	38944.6862	22
5947	3.191	0.617	11	1.08	39000.6053	22
5958	8.240	1.561	11	1.01	38940.7048	22
5982	4.747	-0.105	11	1.09	38448.9822	44
5984	2.554	-0.080	11	1.68	38468.9627	44
5984	2.515	-0.117	11	1.63	38469.9823	44
6018	3.992	0.527	11	1.02	38468.9662	44
6018	3.950	0.519	11	1.03	38469.9573	44
6056	1.475	1.049	11	1.27	38468.9690	44
6056	1.403	1.020	11	1.27	38469.9649	44
6092	3.953	-0.127	11	2.32	38448.8256	44
6092	3.972	-0.128	11	1.99	38468.7906	44
6092	3.968	-0.154	11	1.06	38905.8635	22
6092	3.989	-0.155	11	1.04	38912.8160	44
6092	3.948	-0.176	11	1.05	38936.6940	44
6092	3.916	-0.154	11	1.03	38939.7289	44
6092	3.993	-0.146	11	1.05	38940.6734	22
6092	3.966	-0.141	11	1.11	38940.7962	22
6092	3.971	-0.135	11	1.03	38944.6897	22
6092	3.908	-0.164	11	1.06	39000.6022	22
6095	3.508	0.165	11	1.05	38468.9719	44
6095	3.475	0.141	11	1.05	38469.9712	44
6117	4.554	0.007	11	1.08	38468.9747	44
6117	4.533	-0.023	11	1.08	38469.9740	44
6119	5.221	2.944	11	1.03	38940.7130	22
6526	3.361	0.731	11	1.11	38468.9781	44
6526	3.319	0.727	11	1.10	38469.9774	44

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
6603	1.988	0.585	11	1.23	38905.9357	22
6603	1.944	0.559	11	1.25	38930.8736	44
6603	1.960	0.581	11	1.14	38934.8089	22
6603	1.949	0.575	11	1.20	38940.7199	22
6603	1.941	0.560	11	1.13	38940.7716	22
6603	1.968	0.547	11	1.14	38942.7443	11
6603	1.986	0.583	11	1.24	38944.6937	22
6603	2.027	0.586	11	1.18	38944.7187	44
6603	1.948	0.574	11	1.15	38944.7328	22
6603	1.885	0.540	11	1.13	39000.6093	22
6603	1.966	0.549	11	1.65	39000.7443	22
6603	1.929	0.572	11	1.13	39004.6058	44
6629	3.717	-0.005	11	1.26	38905.9419	22
6629	3.694	0.011	11	1.30	38930.8822	44
6629	3.680	0.003	11	1.16	38934.8156	22
6629	3.710	-0.022	11	1.22	38940.7250	22
6629	3.701	-0.004	11	1.15	38940.7675	22
6629	3.689	0.028	11	1.16	38942.7478	11
6629	3.717	0.011	11	1.27	38944.6969	22
6629	3.700	0.002	11	1.19	38944.7251	44
6629	3.723	0.023	11	1.18	38944.7300	22
6629	3.651	-0.002	11	1.15	39000.6123	22
6629	3.741	-0.018	11	1.69	39000.7472	22
6629	3.660	-0.009	11	1.15	39004.6095	44
6661	5.107	0.962	11	1.28	38937.7937	44
6661	5.202	0.945	11	1.28	38939.7929	44
6742	4.262	0.464	11	2.13	38937.8053	44
6863	4.788	0.450	11	1.60	38937.8161	44
6917	5.774	0.058	11	1.09	38940.7300	22
6917	5.744	0.036	11	1.14	38944.7007	22
6947	5.530	0.642	11	1.61	38906.9058	44
6947	5.686	0.698	11	1.61	38908.8810	44
6947	5.965	0.760	11	1.63	38910.9126	44
6947	5.913	0.813	11	1.61	38937.8286	44
6947	5.900	0.668	11	1.61	38939.8034	44
7059	5.494	0.107	11	1.32	38940.7431	22
7059	5.613	0.090	11	1.44	38944.7081	22
7172	4.780	0.268	11	1.17	38940.7518	22
7172	4.843	0.309	11	1.28	38944.7138	22
7215	4.857	0.090	11	1.10	38940.7577	22
7215	4.844	0.084	11	1.17	38944.7185	22
7402	5.855	0.713	11	1.32	38930.9055	44
7451	5.302	0.261	11	1.16	38940.7633	22
7451	5.301	0.253	11	1.23	38944.7256	22
7570	3.422	0.479	11	1.18	38910.9235	44
7570	3.470	0.523	11	1.19	38930.9173	44
7781	5.629	0.070	11	1.09	38999.7228	44
7784	6.158	0.034	11	1.01	38999.7291	44
7949	1.733	0.512	11	1.15	38940.8034	22
7949	1.717	0.522	11	1.30	38944.7575	22
7988	5.335	0.406	11	1.00	38930.9437	44
8170	5.945	0.342	11	1.02	38999.7350	44
8207	4.836	0.813	11	1.70	38999.7509	44
8263	6.195	0.046	11	1.20	38999.7443	44
8291	6.043	0.064	11	1.03	38999.7395	44

CATALINA RI DATA

B.S.	R	R-I	WT	AIR	J.D.	CNT.
8407	5.593	0.028	11	1.04	38999.7554	44
8410	5.159	0.131	11	1.20	38999.7870	44
8461	5.253	0.499	11	1.06	38999.7650	44
8571	3.690	0.415	11	1.12	38939.9428	44
8622	4.960	-0.205	11	2.00	38906.8629	44
8622	4.977	-0.220	11	1.18	38906.9649	44
8622	4.961	-0.212	11	2.44	38908.8354	44
8622	4.969	-0.207	11	1.19	38908.9561	44
8622	4.958	-0.209	11	2.20	38910.8409	44
8622	4.990	-0.226	11	1.18	38910.9532	44
8622	4.961	-0.207	11	2.34	38911.8313	44
8622	4.950	-0.215	11	2.44	38912.8245	44
8622	4.962	-0.214	11	2.65	38930.7672	44
8622	4.966	-0.223	11	1.10	38930.9262	44
8622	4.972	-0.207	11	1.18	38934.8892	22
8622	4.983	-0.234	11	1.88	38936.7890	44
8622	4.984	-0.196	11	1.13	38936.8993	44
8622	4.960	-0.205	11	2.22	38937.7663	44
8622	4.981	-0.207	11	1.32	38937.8497	44
8622	4.953	-0.220	11	1.04	38937.9357	44
8622	5.025	-0.235	11	2.61	38939.7442	44
8622	4.972	-0.227	11	1.26	38939.8552	44
8622	4.964	-0.247	11	1.18	38940.8712	22
8622	4.954	-0.203	11	1.01	38940.9727	22
8622	4.964	-0.206	11	2.47	38944.7358	44
8622	4.930	-0.245	11	1.35	38944.8250	22
8622	4.826	-0.251	11	1.09	38944.8916	44
8622	4.861	-0.252	11	1.02	38944.9321	22
8622	4.970	-0.202	11	1.17	38999.7130	44
8622	5.006	-0.205	11	1.01	38999.7978	44
8622	5.033	-0.199	11	1.01	39000.8363	22
8622	4.947	-0.208	11	1.08	39003.7360	22
8622	4.974	-0.215	11	1.31	39003.9456	22
8622	4.935	-0.212	11	1.53	39004.6351	44
8622	4.964	-0.204	11	1.01	39004.7955	44
8649	3.763	0.778	11	1.63	38999.7931	44
8649	3.717	0.678	11	1.60	39004.8022	44
8804	4.314	0.753	11	1.05	38999.8030	44
8832	4.734	0.470	11	1.37	38906.9501	44
8832	4.733	0.499	11	2.20	38908.8423	44
8832	4.758	0.512	11	1.30	38908.9637	44
8832	4.744	0.496	11	2.05	38910.8484	44
8832	4.758	0.505	11	1.29	38910.9595	44
8832	4.742	0.498	11	2.15	38911.8378	44
8832	4.746	0.509	11	2.17	38912.8341	44
8832	4.741	0.502	11	2.20	38930.7826	44
8832	4.749	0.508	11	1.21	38930.9327	44
8832	4.745	0.488	11	1.29	38934.8955	22
8832	4.757	0.528	11	1.85	38936.7960	44
8832	4.732	0.488	11	2.06	38937.7741	44
8832	4.755	0.511	11	1.41	38937.8564	44
8832	4.754	0.515	11	1.15	38937.9418	44
8832	4.637	0.534	11	2.11	38939.7644	44
8832	4.770	0.480	11	1.13	38939.9505	44
8832	4.755	0.494	11	1.30	38940.8769	22
8832	4.708	0.487	11	1.11	38940.9698	22
8832	4.716	0.483	11	1.42	38944.8358	22
8832	4.701	0.478	11	1.38	38944.8443	44
8832	4.668	0.467	11	1.15	38944.9277	22
8832	4.704	0.506	11	1.12	38944.9507	44
8832	4.783	0.536	11	1.29	38999.7176	44
8832	4.761	0.519	11	1.11	38999.8176	44
8832	4.819	0.556	11	1.10	39000.8402	22
8832	4.745	0.534	11	1.27	39003.9490	22
8832	4.644	0.506	11	1.62	39004.6378	44
8832	4.763	0.542	11	1.10	39004.8203	44
8947	5.485	0.053	11	1.04	38999.8084	44
8947	5.473	0.093	11	1.01	39004.8249	44

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
25	3.836	1.003	0.000	0.750	0.516	11011	2.74	38403.5479	22022
45	4.785	1.612	0.000	1.347	1.103	11011	1.15	38701.5806	44044
45	4.810	1.635	0.000	1.352	1.161	11011	1.01	38701.6887	44044
45	4.753	1.557	0.000	1.367	1.153	11011	1.86	38701.8371	44044
45	4.762	1.625	0.000	1.340	1.116	11011	1.19	38702.5664	44044
45	4.784	1.632	0.000	1.341	1.123	11011	1.04	38702.6200	44044
45	4.824	1.610	0.000	1.382	1.190	11011	1.24	38702.7704	44044
45	4.827	1.577	0.000	1.369	1.148	11011	1.05	38705.7085	22022
45	4.809	1.563	0.000	1.388	1.140	11011	1.32	38705.7767	22022
45	4.825	1.579	0.000	1.367	1.105	11011	1.21	38707.5492	44044
45	4.822	1.597	0.000	1.367	1.139	11011	1.00	38707.6358	44044
45	4.783	1.583	0.000	1.337	1.107	11011	1.02	38735.5433	44044
45	4.765	1.593	0.000	1.361	1.143	11011	1.03	38736.6089	44044
45	4.847	1.536	0.000	1.389	1.144	11011	2.06	38736.7518	44044
45	4.776	1.575	0.000	1.370	1.147	11011	1.00	38738.5644	22022
45	4.777	1.584	0.000	1.371	1.125	11011	1.00	38742.5518	44044
45	4.792	1.519	0.000	1.388	1.141	11011	1.91	38742.7282	44044
45	4.809	1.595	0.000	1.360	1.138	11011	1.09	38760.5761	44044
45	4.802	1.547	0.000	1.366	1.122	11011	2.13	38760.6896	44044
45	4.774	1.584	0.000	1.350	1.121	11011	1.01	38761.5297	44044
45	4.797	1.574	0.000	1.391	1.125	11011	1.94	38761.6775	44044
45	4.809	1.582	0.000	1.362	1.130	11011	1.01	38762.5279	44044
45	4.800	1.541	0.000	1.383	1.132	11011	2.05	38762.6803	44044
45	4.845	1.595	0.000	1.389	1.131	11011	1.15	38764.5815	44044
45	4.825	1.592	0.000	1.340	1.163	11011	2.15	38773.6550	44044
45	4.859	1.610	0.000	1.372	1.170	11011	2.49	38774.6644	44044
90	9.218	2.106	0.000	4.242	2.897	11011	1.06	38699.6679	44044
90	9.304	2.298	0.000	4.215	2.882	11011	1.08	38700.6414	44044
90	9.255	2.271	0.000	4.098	2.859	11011	1.09	38701.6310	44044
99	2.320	1.100	0.000	0.811	0.585	11011	2.34	38403.5521	22022
100	3.878	0.166	0.000	0.140	0.076	11011	2.50	38403.5569	22022
105	4.829	1.631	0.000	1.587	1.386	11011	1.86	38403.5625	22022
180	4.716	1.018	0.000	0.797	0.556	11011	2.39	38368.5854	22022
180	4.491	0.950	0.000	0.732	0.473	11011	2.39	38370.5826	22022
180	4.602	0.943	0.000	0.744	0.548	11011	2.38	38373.5826	22022
180	4.592	0.965	0.000	0.745	0.489	11011	2.39	38374.5917	22022
280	4.376	-0.129	0.000	0.022	-0.083	11011	1.51	38368.6146	22022
280	4.191	-0.154	0.000	-0.040	-0.155	11011	1.54	38370.5778	22022
280	4.302	-0.149	0.000	-0.022	-0.147	11011	1.51	38374.5958	22022
322	3.261	0.886	0.000	0.695	0.485	11011	2.53	38345.7111	22022
322	3.377	0.877	0.000	0.716	0.576	11011	2.45	38348.7062	44044
322	3.456	0.942	0.000	0.742	0.558	11011	2.44	38368.6208	22022
322	3.279	0.895	0.000	0.677	0.449	11011	2.51	38400.5576	44044
370	4.857	0.551	0.000	0.482	0.325	11011	2.41	38345.7160	22022
370	4.979	0.579	0.000	0.458	0.421	11011	2.38	38348.7014	44044
370	5.175	0.642	0.000	0.542	0.407	11011	2.34	38368.6250	22022
370	4.942	0.573	0.000	0.481	0.285	11011	2.40	38400.5625	44044
423	5.844	3.843	0.000	2.095	1.371	11011	1.61	38700.7200	44044
423	5.756	3.801	0.000	2.032	1.370	11011	1.62	38701.7056	44044
423	5.711	3.856	0.000	2.033	1.383	11011	1.61	38702.7162	44044
429	3.321	1.544	0.000	1.277	0.996	11011	2.22	38345.7229	22022
429	3.432	1.603	0.000	1.238	1.048	11011	2.21	38348.7111	44044
429	3.309	1.558	0.000	1.265	0.902	11011	2.25	38370.5868	22022
429	3.419	1.592	0.000	1.247	0.985	11011	2.20	38400.5667	44044
440	3.842	0.980	0.000	0.762	0.489	11011	2.80	38370.5917	22022
440	3.930	1.002	0.000	0.754	0.536	11011	2.77	38373.5868	22022
440	3.909	0.985	0.000	0.745	0.502	11011	2.75	38400.5715	44044
493	5.238	0.845	0.000	0.669	0.410	11011	1.32	38350.5681	44044
493	5.269	0.828	0.000	0.692	0.400	11011	1.02	38350.7201	44044
493	5.243	0.814	0.000	0.699	0.449	11011	2.12	38350.8722	44044
493	5.234	0.830	0.000	0.672	0.401	11011	1.59	38351.5347	44044
493	5.256	0.825	0.000	0.690	0.430	11011	1.00	38351.6847	44044
493	5.222	0.829	0.000	0.673	0.384	11011	1.61	38352.5306	44044
493	5.270	0.825	0.000	0.698	0.410	11011	1.00	38352.6799	44044
493	5.254	0.858	0.000	0.643	0.422	11011	1.56	38353.5319	44044
493	5.255	0.832	0.000	0.673	0.448	11011	1.01	38353.6972	44044
493	5.211	0.834	0.000	0.648	0.396	11011	1.42	38354.5437	44044
493	5.263	0.849	0.000	0.677	0.426	11011	1.00	38354.6806	44044
493	5.241	0.827	0.000	0.677	0.408	11011	1.08	38355.6104	44044
493	5.232	0.812	0.000	0.691	0.401	11011	1.25	38356.5639	44044
493	5.249	0.820	0.000	0.706	0.436	11011	1.00	38356.6667	44044
493	5.258	0.859	0.000	0.685	0.410	11011	1.00	38391.5736	44044
493	5.227	0.821	0.000	0.681	0.452	11011	1.60	38391.7285	44044
493	5.243	0.822	0.000	0.695	0.431	11011	1.00	38407.5292	44044
493	5.270	0.820	0.000	0.706	0.454	11011	1.58	38407.6826	44044
493	5.231	0.871	0.000	0.676	0.466	11011	1.32	38408.6507	22022
493	5.248	0.815	0.000	0.698	0.446	11011	1.01	38409.5472	44044
493	5.140	0.964	0.000	0.520	0.426	11011	1.02	38413.5479	44044
493	5.259	0.815	0.000	0.696	0.422	11011	1.01	38414.5403	44044
493	5.284	0.817	0.000	0.680	0.459	11011	1.24	38437.5583	22022
493	5.252	0.822	0.000	0.689	0.437	11011	1.25	38438.5576	44044
493	5.309	0.853	0.000	0.683	0.433	11011	1.25	38439.5549	44044
493	5.215	0.838	0.000	0.652	0.416	11011	1.26	38440.5535	44044
493	5.223	0.827	0.000	0.666	0.438	11011	1.28	38441.5549	44044
493	5.279	0.823	0.000	0.678	0.439	11011	1.37	38442.5646	44044
493	5.353	0.843	0.000	0.672	0.445	11011	1.33	38443.5569	44044
493	5.270	0.820	0.000	0.716	0.433	11011	1.37	38444.5597	44044
493	5.300	0.829	0.000	0.694	0.432	11011	1.42	38445.5632	44044
493	5.312	0.830	0.000	0.699	0.445	11011	1.48	38446.5667	44044
493	5.360	0.837	0.000	0.719	0.425	11011	1.54	38447.5701	44044
519	5.520	1.523	0.000	1.480	1.270	11011	2.91	38700.7294	44044
519	5.493	1.506	0.000	1.505	1.262	11011	2.90	38701.7278	44044
519	5.454	1.536	0.000	1.474	1.299	11011	2.91	38702.7240	44044
553	2.659	0.022	0.000	0.137	0.111	11011	1.10	38698.8162	44044
553	2.688	0.006	0.000	0.176	0.124	11011	1.29	38698.8600	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
555	4.330	1.574	0.000	1.752	1.557	11011	2.44	38345.7333	22022
555	4.267	1.608	0.000	1.720	1.417	11011	2.56	38370.5965	22022
555	4.378	1.605	0.000	1.757	1.531	11011	2.54	38373.5917	22022
555	4.248	1.597	0.000	1.707	1.511	11011	2.42	38400.5764	44044
558	5.087	-0.086	0.000	0.016	-0.028	11011	2.16	38345.7396	22022
558	5.011	-0.070	0.000	0.016	-0.086	11011	2.22	38370.6007	22022
558	5.106	-0.072	0.000	0.038	-0.065	11011	2.20	38373.5958	22022
558	5.110	-0.046	0.000	0.010	-0.059	11011	2.13	38400.5806	44044
574	4.734	0.843	0.000	0.677	0.428	11011	2.64	38370.6042	22022
574	4.850	0.879	0.000	0.717	0.467	11011	2.61	38373.6007	22022
574	4.831	0.889	0.000	0.698	0.433	11011	2.56	38374.6069	22022
574	4.887	0.930	0.000	0.699	0.483	11011	2.20	38400.5868	44044
602	5.112	1.464	0.000	1.240	0.854	11011	2.37	38370.6090	22022
602	5.156	1.504	0.000	1.208	0.943	11011	2.35	38373.6049	22022
602	5.139	1.494	0.000	1.212	0.887	11011	2.31	38374.6125	22022
602	5.130	1.504	0.000	1.202	0.911	11011	2.31	38400.5910	44044
612	4.627	-0.172	0.000	-0.036	-0.159	11011	1.55	38370.6146	22022
612	4.680	-0.154	0.000	-0.016	-0.150	11011	1.55	38373.6097	22022
612	4.679	-0.162	0.000	-0.024	-0.149	11011	1.53	38374.6167	22022
612	4.672	-0.134	0.000	-0.029	-0.140	11011	1.54	38400.5951	44044
617	2.019	1.186	0.000	0.839	0.572	11011	1.03	38345.6826	22022
617	1.927	1.140	0.000	0.800	0.576	11011	1.95	38348.5340	44044
617	1.891	1.132	0.000	0.802	0.579	11011	1.46	38348.6319	44044
617	2.014	1.162	0.000	0.847	0.643	11011	1.01	38348.7299	44044
617	2.062	1.177	0.000	0.872	0.689	11011	2.14	38348.8972	44044
617	1.965	1.135	0.000	0.828	0.589	11011	1.16	38368.5674	22022
617	2.000	1.153	0.000	0.857	0.665	11011	1.34	38368.7799	22022
617	2.077	1.174	0.000	0.883	0.640	11011	1.95	38370.8278	22022
617	1.972	1.158	0.000	0.841	0.593	11011	1.11	38373.5660	22022
617	1.966	1.163	0.000	0.832	0.577	11011	1.07	38374.5785	22022
617	1.990	1.175	0.000	0.849	0.570	11011	1.07	38376.5722	22022
617	2.004	1.160	0.000	0.856	0.592	11011	1.01	38376.6174	22022
617	1.964	1.137	0.000	0.864	0.611	11011	1.70	38376.7958	22022
617	1.977	1.129	0.000	0.847	0.606	11011	1.01	38400.5444	44044
617	1.961	1.166	0.000	0.821	0.605	11011	1.00	38403.5722	22022
617	2.001	1.168	0.000	0.871	0.613	11011	1.10	38430.5590	44044
617	1.977	1.151	0.000	0.853	0.651	11011	1.81	38430.6562	44044
617	1.980	1.164	0.000	0.874	0.656	11011	2.70	38430.6924	44044
617	2.006	1.123	0.000	0.866	0.623	11011	1.81	38431.6535	44044
617	1.964	1.146	0.000	0.839	0.636	11011	3.68	38431.7083	44044
617	2.036	1.170	0.000	0.863	0.600	11011	1.14	38432.5674	44044
617	2.013	1.163	0.000	0.854	0.603	11011	1.11	38433.5556	44044
617	1.961	1.144	0.000	0.870	0.638	11011	2.53	38433.6799	44044
617	1.415	1.166	0.000	0.889	0.623	01011	1.49	38434.6194	44044
617	2.005	1.160	0.000	0.848	0.642	11011	2.93	38434.6875	44044
617	1.973	1.159	0.000	0.833	0.602	11011	1.60	38449.5875	44044
617	1.987	1.167	0.000	0.841	0.656	11011	3.82	38449.6611	44044
617	2.044	1.154	0.000	0.852	0.599	11011	1.77	38450.5986	44044
617	1.978	1.202	0.000	0.864	0.598	11011	1.09	38698.8218	44044
617	1.993	1.201	0.000	0.816	0.660	11011	1.21	38698.8543	44044
617	1.975	1.163	0.000	0.838	0.594	11011	1.47	38699.6096	44044
617	1.971	1.147	0.000	0.863	0.518	11011	1.71	38700.5857	44044
617	1.978	1.221	0.000	0.819	0.617	11011	1.00	38700.7586	44044
617	1.942	1.138	0.000	0.813	0.639	11011	1.92	38700.9225	44044
617	1.977	1.163	0.000	0.822	0.556	11011	1.52	38701.5982	44044
617	1.983	1.184	0.000	0.846	0.593	11011	1.00	38701.7458	44044
617	1.962	1.114	0.000	0.868	0.652	11011	2.25	38701.9353	44044
617	1.916	1.145	0.000	0.828	0.561	11011	1.83	38702.5721	44044
617	1.985	1.178	0.000	0.855	0.596	11011	1.01	38702.7562	44044
617	2.192	1.049	0.000	0.927	0.740	11011	4.62	38702.9761	44044
617	1.925	1.151	0.000	0.802	0.567	11011	1.01	38705.7132	22022
617	1.955	1.170	0.000	0.819	0.616	11011	1.51	38705.8782	22022
617	2.017	1.106	0.000	0.878	0.564	11011	1.91	38707.5537	44044
617	1.988	1.215	0.000	0.843	0.596	11011	1.00	38707.7228	44044
617	1.905	1.194	0.000	0.786	0.556	11011	1.02	38736.6139	44044
617	2.006	1.181	0.000	0.812	0.615	11011	1.24	38736.7561	44044
617	1.957	1.175	0.000	0.808	0.577	11011	1.03	38738.6043	22022
617	1.968	1.177	0.000	0.814	0.553	11011	1.03	38742.5922	44044
617	1.985	1.145	0.000	0.895	0.601	11011	1.53	38742.7797	44044
617	1.950	1.131	0.000	0.842	0.550	11011	1.01	38760.5594	44044
617	1.991	1.150	0.000	0.861	0.589	11011	1.75	38760.7482	44044
617	1.978	1.165	0.000	0.848	0.577	11011	1.04	38761.5339	44044
617	2.039	1.149	0.000	0.869	0.610	11011	1.92	38761.7561	44044
617	1.983	1.162	0.000	0.852	0.574	11011	1.04	38762.5324	44044
617	1.958	1.167	0.000	0.842	0.606	11011	1.95	38762.7553	44044
617	2.040	1.136	0.000	0.898	0.614	11011	1.79	38763.7425	22022
617	2.109	1.181	0.000	0.904	0.607	11011	1.00	38764.5676	44044
617	1.982	1.189	1.088	0.000	0.000	11100	1.05	38765.6201	22200
617	1.973	1.183	1.110	0.000	0.000	11100	1.88	38765.7431	22200
617	1.938	1.157	1.099	0.000	0.000	11100	1.01	38766.5417	44400
617	2.026	1.155	1.144	0.000	0.000	11100	1.17	38766.6604	44400
617	2.010	1.162	1.098	0.000	0.000	11100	2.79	38766.7750	44400
617	1.992	1.149	0.000	0.830	0.578	11011	1.01	38772.5658	22022
617	1.992	1.147	0.000	0.882	0.574	11011	1.01	38773.5285	44044
617	1.951	1.133	0.000	0.847	0.590	11011	1.61	38773.7018	44044
617	1.911	1.168	0.000	0.806	0.584	11011	1.00	38774.5389	44044
617	1.962	1.150	1.081	0.000	0.000	11100	1.15	38786.6000	44400
617	2.015	1.152	1.126	0.000	0.000	11100	2.08	38786.6958	44400
617	1.985	1.125	1.092	0.000	0.000	11100	1.05	38787.5611	44400
617	2.020	1.155	1.132	0.000	0.000	11100	1.89	38787.6833	44400
617	1.948	1.130	0.000	0.837	0.598	11011	1.03	38790.5375	44044
617	2.051	1.190	0.000	0.890	0.607	11011	2.56	38790.7029	44044
617	1.977	1.142	0.000	0.857	0.622	11011	1.03	38791.5356	44044
617	2.042	1.165	0.000	0.876	0.622	11011	1.11	38791.5758	44044
617	2.034	1.191	0.000	0.885	0.624	11011	1.80	38791.6671	44044
617	2.001	1.156	0.000	0.853	0.622	11011	1.04	38793.5390	44044
617	2.002	1.151	0.000	0.885	0.596	11011	1.12	38793.5717	44044
617	2.027	1.157	1.129	0.000	0.000	11100	1.11	38798.5556	44400
617	1.993	1.152	1.096	0.000	0.000	11100	2.07	38798.6632	44400
617	2.008	1.184	0.000	0.848	0.604	11011	1.31	38814.5557	22022
617	2.087	1.129	0.000	0.871	0.619	11011	1.27	38815.5458	44044
617	2.021	1.165	0.000	0.857	0.618	11011	1.30	38816.5487	22022
617	2.032	1.129	0.000	0.884	0.626	11011	1.46	38817.5675	22022
617	2.064	1.144	0.000	0.840	0.644	11011	2.57	38818.6265	44044
617	2.134	1.142	0.000	0.897	0.642	11011	1.35	38819.5481	22022

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
617	2.028	1.157	0.000	0.882	0.616	11011	1.37	38820.5474	22022
617	2.077	1.154	0.000	0.869	0.629	11011	1.41	38822.5471	44044
617	2.010	1.179	0.000	0.842	0.637	11011	1.44	38823.5489	44044
617	2.061	1.143	0.000	0.874	0.629	11011	1.48	38824.5501	44044
617	2.075	1.159	0.000	0.908	0.620	11011	1.47	38825.5468	44044
617	2.076	1.172	0.000	0.879	0.626	11011	1.58	38825.5571	44044
617	2.110	1.189	0.000	0.882	0.618	11011	1.52	38827.5467	44044
617	1.936	1.169	0.000	0.858	0.601	11011	1.91	38836.5508	44044
617	1.959	1.128	0.000	0.835	0.637	11011	1.95	38837.5501	44044
617	1.876	1.117	0.000	0.834	0.613	11011	2.01	38838.5508	44044
617	1.855	1.117	0.000	0.784	0.616	11011	2.45	38839.5657	44044
617	1.911	1.092	0.000	0.793	0.589	11011	2.28	38841.5543	44044
617	2.026	1.174	0.000	0.810	0.651	11011	2.40	38842.5558	44044
617	1.966	1.188	1.096	0.000	0.000	11100	3.97	38844.5818	44400
617	2.035	1.051	1.209	0.000	0.000	11100	2.91	38845.5616	44400
618	5.754	0.623	0.000	0.603	0.473	11011	1.67	38707.5915	44044
618	5.645	0.590	0.000	0.579	0.483	11011	1.36	38747.5718	44044
627	6.454	0.357	0.000	0.383	0.239	11011	1.63	38707.5976	44044
627	6.371	0.280	0.000	0.352	0.240	11011	1.33	38742.5815	44044
627	6.376	0.358	0.000	0.327	0.278	11011	1.28	38773.5719	44044
627	6.352	0.361	0.000	0.322	0.276	11011	1.29	38774.5817	44044
641	6.569	0.657	0.000	0.587	0.524	11011	1.60	38707.6068	44044
641	6.432	0.571	0.000	0.550	0.490	11011	1.31	38742.6062	44044
641	6.461	0.623	0.000	0.563	0.518	11011	1.30	38773.5761	44044
641	6.445	0.622	0.000	0.518	0.514	11011	1.31	38774.5858	44044
654	6.480	0.258	0.000	0.327	0.165	11011	1.27	38707.7360	44044
654	6.463	0.233	0.000	0.339	0.192	11011	1.29	38761.6264	44044
654	6.524	0.308	0.000	0.320	0.226	11011	1.36	38773.6289	44044
654	6.554	0.282	0.000	0.356	0.197	11011	1.40	38774.6392	44044
656	5.766	0.429	0.000	0.399	0.235	11011	1.05	38350.6639	44044
656	5.760	0.443	0.000	0.396	0.199	11011	1.36	38351.5812	44044
656	5.747	0.432	0.000	0.388	0.195	11011	1.48	38352.5639	44044
656	5.764	0.449	0.000	0.376	0.229	11011	1.46	38353.5639	44044
656	5.771	0.428	0.000	0.416	0.208	11011	1.36	38354.5736	44044
656	5.789	0.417	0.000	0.419	0.204	11011	1.23	38355.5938	44044
696	6.208	0.276	0.000	0.334	0.164	11011	1.37	38707.6625	44044
696	6.237	0.261	0.000	0.307	0.207	11011	1.27	38742.6681	44044
718	4.244	-0.061	0.000	0.003	-0.096	11011	1.64	38350.5729	44044
718	4.290	-0.046	0.000	0.024	-0.043	11011	1.02	38350.7118	44044
718	4.256	-0.065	0.000	0.009	-0.021	11011	1.78	38350.6771	44044
718	4.243	-0.047	0.000	0.017	-0.090	11011	2.19	38351.5396	44044
718	4.286	-0.053	0.000	0.039	-0.045	11011	1.02	38351.7146	44044
718	4.246	-0.063	0.000	0.006	-0.073	11011	2.23	38352.5354	44044
718	4.295	-0.062	0.000	0.038	-0.057	11011	1.02	38352.7069	44044
718	4.297	-0.032	0.000	0.027	-0.060	11011	2.13	38353.5268	44044
718	4.284	-0.064	0.000	0.020	-0.033	11011	1.02	38353.7021	44044
718	4.245	-0.039	0.000	-0.019	-0.074	11011	2.04	38354.5382	44044
718	4.282	-0.055	0.000	0.033	-0.055	11011	1.03	38354.6854	44044
718	4.279	-0.078	0.000	0.030	-0.067	11011	1.20	38355.6153	44044
718	4.286	-0.036	0.000	0.011	-0.047	11011	1.03	38355.7354	44044
718	4.256	-0.064	0.000	0.021	-0.086	11011	1.51	38356.5681	44044
718	4.256	-0.056	0.000	0.011	-0.041	11011	1.04	38356.6715	44044
718	4.252	-0.031	0.000	-0.039	-0.055	11011	1.03	38391.5792	44044
718	4.245	-0.065	0.000	-0.025	-0.004	11011	1.34	38391.7243	44044
718	4.276	-0.053	0.000	0.018	-0.048	11011	1.03	38407.5389	44044
718	4.278	-0.056	0.000	0.034	-0.003	11011	1.21	38408.6556	22022
718	4.278	-0.064	0.000	0.021	-0.049	11011	1.02	38409.5514	44044
718	4.266	-0.073	0.000	0.082	-0.054	11011	1.02	38413.5521	44044
718	4.281	-0.068	0.000	0.019	-0.037	11011	1.02	38414.5444	44044
718	4.310	-0.063	0.000	0.013	-0.059	11011	1.16	38437.5632	22022
718	4.282	-0.079	0.000	0.013	-0.045	11011	1.16	38438.5618	44044
718	4.339	-0.056	0.000	0.035	-0.068	11011	1.16	38439.5597	44044
718	4.236	-0.052	0.000	-0.011	-0.088	11011	1.17	38440.5576	44044
718	4.248	-0.085	0.000	0.011	-0.052	11011	1.19	38441.5597	44044
718	4.350	-0.078	0.000	0.027	-0.052	11011	1.24	38442.5687	44044
718	4.362	-0.054	0.000	0.003	-0.069	11011	1.18	38443.5528	44044
718	4.276	-0.072	0.000	0.024	-0.046	11011	1.20	38444.5556	44044
718	4.322	-0.061	0.000	0.027	-0.036	11011	1.24	38445.5590	44044
718	4.332	-0.047	0.000	0.018	-0.038	11011	1.27	38446.5618	44044
718	4.386	-0.062	0.000	0.048	-0.057	11011	1.31	38447.5660	44044
718	4.264	-0.013	0.000	-0.005	-0.071	11011	1.56	38669.6243	44044
718	4.271	-0.041	0.000	0.001	-0.100	11011	1.84	38700.6010	44044
718	4.254	-0.061	0.000	0.016	-0.054	11011	1.02	38700.7639	44044
718	4.252	-0.064	0.000	-0.007	-0.023	11011	1.97	38700.9297	44044
718	4.262	-0.050	0.000	0.008	-0.100	11011	1.76	38701.6033	44044
718	4.240	-0.045	0.000	-0.021	-0.031	11011	1.09	38701.8178	44044
718	4.227	-0.003	0.000	0.036	-0.099	11011	1.99	38702.5877	44044
718	4.285	-0.102	0.000	0.025	-0.036	11011	1.02	38702.7519	44044
718	4.312	-0.079	0.000	0.037	-0.063	11011	1.03	38705.7186	22022
718	4.309	-0.052	0.000	0.021	-0.080	11011	2.36	38707.5590	44044
718	4.337	-0.045	0.000	0.024	-0.061	11011	1.02	38707.7269	44044
718	4.282	-0.065	0.000	0.009	-0.065	11011	1.02	38736.6637	44044
718	4.252	-0.059	0.000	-0.003	-0.080	11011	1.02	38742.5460	44044
718	4.303	-0.051	0.000	0.029	-0.058	11011	2.18	38742.8246	44044
718	4.319	-0.050	0.000	0.042	-0.063	11011	1.03	38760.6215	44044
718	4.286	-0.037	0.000	0.029	-0.052	11011	1.76	38760.7539	44044
718	4.306	-0.092	0.000	0.038	-0.070	11011	1.08	38761.5386	44044
718	4.327	-0.031	0.000	0.033	-0.043	11011	1.91	38761.7601	44044
718	4.313	-0.093	0.000	0.052	-0.066	11011	1.08	38762.5371	44044
718	4.297	-0.016	0.000	0.020	-0.047	11011	1.97	38762.7607	44044
718	4.347	-0.045	0.000	0.059	-0.030	11011	1.65	38763.7381	22022
718	4.369	-0.030	0.000	0.053	-0.048	11011	1.02	38764.5719	44044
718	4.304	-0.082	0.000	0.029	-0.084	11011	1.02	38772.5707	22022
718	4.299	-0.053	0.000	0.035	-0.062	11011	1.03	38773.5333	44044
718	4.297	-0.057	0.000	0.006	-0.057	11011	1.50	38773.6975	44044
718	4.257	-0.014	0.000	-0.028	-0.066	11011	1.02	38774.5435	44044
718	4.259	-0.085	0.000	0.008	-0.060	11011	1.03	38790.5418	44044
718	4.358	-0.037	0.000	0.026	-0.027	11011	2.62	38790.7079	44044
718	4.288	-0.048	0.000	0.031	-0.035	11011	1.09	38791.5717	44044
718	4.328	-0.048	0.000	0.024	-0.011	11011	1.80	38791.6717	44044
718	4.302	-0.063	0.000	0.032	-0.029	11011	1.07	38793.5578	44044
718	4.323	-0.026	0.000	-0.004	-0.032	11011	1.31	38814.5619	22022
718	4.359	-0.053	0.000	0.003	-0.057	11011	1.76	38815.5501	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
718	4.322	-0.058	0.000	-0.016	-0.137	11011	1.29	38816.5536	22022
718	4.315	-0.027	0.000	0.010	-0.044	11011	1.45	38817.5724	22022
718	4.437	-0.057	0.000	0.028	-0.033	11011	1.34	38819.5522	22022
718	4.351	-0.035	0.000	0.031	-0.030	11011	1.36	38820.5522	22022
718	4.341	-0.051	0.000	0.036	-0.059	11011	1.39	38822.5515	44044
718	4.380	-0.042	0.000	0.031	-0.017	11011	1.43	38823.5536	44044
718	4.355	-0.075	0.000	0.017	-0.037	11011	1.47	38824.5544	44044
718	4.378	-0.037	0.000	0.032	-0.021	11011	1.48	38825.5528	44044
718	4.411	-0.020	0.000	0.046	-0.038	11011	1.51	38827.5508	44044
718	4.276	-0.050	0.000	-0.022	-0.053	11011	1.90	38836.5550	44044
718	4.238	-0.079	0.000	0.008	-0.043	11011	1.94	38837.5542	44044
718	4.135	-0.106	0.000	-0.043	-0.043	11011	2.02	38838.5557	44044
718	4.151	-0.126	0.000	-0.036	-0.037	11011	2.58	38839.5731	44044
718	4.248	-0.106	0.000	0.006	-0.066	11011	2.29	38841.5585	44044
718	4.327	-0.049	0.000	0.018	-0.061	11011	2.43	38842.5606	44044
718	4.237	-0.191	-0.099	0.000	0.000	11100	3.53	38844.5783	44400
718	4.306	-0.133	-0.043	0.000	0.000	11100	2.63	38845.5582	44400
718	4.333	-0.040	-0.164	0.000	0.000	11100	3.31	38846.5694	44400
721	4.147	-0.120	0.000	-0.020	-0.117	11011	2.73	38370.6174	22022
721	4.227	-0.123	0.000	-0.030	-0.120	11011	2.69	38373.6146	22022
721	4.218	-0.132	0.000	-0.020	-0.147	11011	2.63	38374.6208	22022
721	4.235	-0.132	0.000	-0.042	-0.159	11011	2.56	38400.6007	44044
749	4.870	-0.039	0.000	0.035	-0.060	11011	1.56	38370.6229	22022
749	4.874	-0.071	0.000	0.007	-0.027	11011	1.51	38373.6319	22022
749	4.885	-0.041	0.000	0.017	-0.059	11011	1.52	38374.6250	22022
749	4.885	-0.028	0.000	0.019	-0.064	11011	1.49	38400.6049	44044
753	5.758	1.013	0.000	0.762	0.541	11011	1.42	38699.6461	44044
753	5.807	1.024	0.000	0.805	0.495	11011	1.87	38700.6061	44044
753	5.828	1.025	0.000	0.823	0.532	11011	1.08	38700.7135	44044
753	5.778	0.998	0.000	0.810	0.576	11011	2.01	38700.9357	44044
753	5.828	0.996	0.000	0.817	0.499	11011	1.79	38701.6082	44044
753	5.814	1.039	0.000	0.811	0.579	11011	1.09	38701.8219	44044
753	5.744	0.983	0.000	0.790	0.506	11011	2.00	38702.5940	44044
753	5.812	1.004	0.000	0.822	0.561	11011	1.03	38702.7475	44044
753	5.840	0.992	0.000	0.830	0.537	11011	1.02	38705.7565	22022
753	5.815	0.953	0.000	0.818	0.516	11011	2.42	38707.5639	44044
753	5.799	1.002	0.000	0.807	0.558	11011	1.08	38707.8028	44044
753	5.805	1.013	0.000	0.796	0.544	11011	1.02	38736.6678	44044
753	5.859	1.005	0.000	0.800	0.539	11011	1.07	38738.6150	22022
753	5.793	1.010	0.000	0.805	0.526	11011	1.02	38742.6503	44044
753	5.821	0.963	0.000	0.835	0.536	11011	2.18	38742.8287	44044
753	5.881	1.009	0.000	0.826	0.545	11011	1.03	38760.6268	44044
753	5.851	0.945	0.000	0.857	0.536	11011	3.46	38760.8106	44044
753	5.851	0.988	0.000	0.853	0.501	11011	1.09	38761.5431	44044
753	5.867	0.980	0.000	0.813	0.563	11011	1.91	38761.7644	44044
753	5.828	0.986	0.000	0.827	0.513	11011	1.09	38762.5411	44044
753	5.811	0.966	0.000	0.830	0.549	11011	1.98	38762.7653	44044
753	5.844	0.973	0.000	0.855	0.533	11011	1.55	38763.7337	22022
753	5.885	1.020	0.000	0.839	0.530	11011	1.03	38764.5764	44044
753	5.826	0.992	0.000	0.818	0.532	11011	1.02	38772.5749	22022
753	5.837	0.972	0.000	0.830	0.528	11011	1.04	38773.5385	44044
753	5.825	0.956	0.000	0.804	0.550	11011	1.42	38773.6928	44044
753	5.812	1.010	0.000	0.811	0.524	11011	1.03	38774.5478	44044
753	5.770	0.979	0.000	0.828	0.526	11011	1.04	38790.5467	44044
753	5.852	0.977	0.000	0.819	0.550	11011	2.91	38790.7189	44044
753	5.832	0.982	0.000	0.852	0.550	11011	1.07	38791.5675	44044
753	5.867	0.971	0.000	0.839	0.557	11011	1.97	38791.6856	44044
753	5.823	0.985	0.000	0.828	0.565	11011	1.08	38793.5675	44044
753	5.880	1.003	0.000	0.847	0.554	11011	1.31	38814.5661	22022
753	5.927	0.973	0.000	0.850	0.579	11011	1.26	38815.5543	44044
753	6.006	1.052	0.000	0.849	0.553	11011	1.30	38816.5585	22022
753	5.844	0.997	0.000	0.823	0.551	11011	1.46	38817.5765	22022
753	5.880	1.016	0.000	0.841	0.563	11011	1.36	38820.5564	22022
753	5.889	0.991	0.000	0.837	0.577	11011	1.52	38825.5611	44044
753	5.806	1.011	0.000	0.807	0.551	11011	1.91	38836.5592	44044
753	5.768	1.002	0.000	0.797	0.558	11011	1.93	38837.5578	44044
753	5.655	0.925	0.000	0.751	0.540	11011	2.03	38838.5599	44044
753	5.778	0.956	0.000	0.823	0.523	11011	2.29	38841.5626	44044
753	5.846	0.981	0.000	0.792	0.000	11010	2.44	38842.5648	44044
753	5.819	0.955	0.793	0.000	0.000	11100	3.04	38844.5741	44400
753	5.786	0.957	0.806	0.000	0.000	11100	2.91	38846.5659	44400
754	4.833	0.842	0.000	0.646	0.503	11011	2.36	38836.5772	44044
754	4.840	0.849	0.000	0.656	0.498	11011	2.13	38837.5661	44044
754	4.739	0.808	0.000	0.641	0.465	11011	2.29	38838.5693	44044
789	4.678	0.072	0.000	0.121	-0.000	11011	2.27	38370.6278	22022
789	4.715	0.035	0.000	0.117	0.012	11011	2.27	38373.6187	22022
789	4.721	0.076	0.000	0.080	0.024	11011	2.20	38374.6299	22022
789	4.724	0.088	0.000	0.091	0.011	11011	2.15	38400.6104	44044
794	4.063	1.006	0.000	0.806	0.517	11011	2.04	38370.6319	22022
794	4.116	1.011	0.000	0.811	0.565	11011	2.04	38373.6236	22022
794	4.095	1.015	0.000	0.785	0.550	11011	1.98	38374.6347	22022
794	4.116	1.041	0.000	0.775	0.572	11011	1.96	38400.6139	44044
797	6.270	0.084	0.000	0.038	0.038	11011	2.24	38836.5821	44044
797	6.277	-0.008	0.000	0.072	0.022	11011	2.02	38837.5703	44044
797	6.184	0.025	0.000	0.024	0.011	11011	2.16	38838.5737	44044
825	6.218	0.914	0.000	0.773	0.753	11011	1.31	38707.7093	44044
825	6.274	0.902	0.000	0.801	0.761	11011	1.31	38742.7151	44044
825	6.267	0.949	0.000	0.808	0.758	11011	1.30	38773.6199	44044
825	6.326	0.925	0.000	0.811	0.757	11011	1.32	38774.6303	44044
841	4.464	0.975	0.000	0.755	0.547	11011	1.62	38342.7722	44044
841	4.433	0.979	0.000	0.761	0.496	11011	1.69	38370.6361	22022
841	4.470	0.981	0.000	0.782	0.548	11011	1.69	38373.6271	22022
841	4.451	1.017	0.000	0.747	0.563	11011	1.62	38400.6181	44044
875	5.128	0.087	0.000	0.104	0.044	11011	1.09	38342.7604	44044
875	5.140	0.033	0.000	0.098	0.032	11011	1.23	38345.6771	22022
875	5.132	0.081	0.000	0.107	0.040	11011	3.29	38348.5437	44044
875	5.138	0.081	0.000	0.122	0.017	11011	1.40	38348.6382	44044
875	5.132	0.100	0.000	0.098	0.044	11011	1.09	38348.7410	44044
875	5.195	0.058	0.000	0.120	0.127	11011	2.09	38348.9062	44044
875	5.134	0.095	0.000	0.088	0.008	11011	1.89	38350.5896	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
875	5.151	0.070	0.000	0.138	0.038	11011	1.12	38350.7021	44044
875	5.172	0.068	0.000	0.123	0.058	11011	1.11	38350.7069	44044
875	5.153	0.059	0.000	0.121	0.079	11011	1.75	38350.8819	44044
875	5.148	0.086	0.000	0.102	0.024	11011	2.09	38351.5764	44044
875	5.198	0.055	0.000	0.142	0.065	11011	1.09	38351.7451	44044
875	5.128	0.065	0.000	0.115	0.027	11011	3.19	38352.5424	44044
875	5.152	0.083	0.000	0.116	0.003	11011	1.96	38352.5799	44044
875	5.196	0.062	0.000	0.146	0.055	11011	1.09	38352.7340	44044
875	5.160	0.079	0.000	0.126	0.092	11011	2.89	38352.9208	44044
875	5.161	0.077	0.000	0.093	0.079	11011	3.05	38353.5424	44044
875	5.153	0.090	0.000	0.107	0.039	11011	2.03	38353.5736	44044
875	5.179	0.082	0.000	0.119	0.064	11011	1.29	38353.6431	44044
875	5.168	0.055	0.000	0.133	0.072	11011	1.09	38353.7278	44044
875	5.149	0.066	0.000	0.133	0.065	11011	1.34	38353.8299	44044
875	5.132	0.077	0.000	0.092	0.075	11011	3.54	38354.5312	44044
875	5.151	0.085	0.000	0.112	0.034	11011	2.09	38354.5681	44044
875	5.173	0.084	0.000	0.133	0.038	11011	1.56	38354.6035	44044
875	5.185	0.076	0.000	0.125	0.050	11011	1.12	38354.6903	44044
875	5.150	0.079	0.000	0.107	0.077	11011	1.48	38354.8465	44044
875	5.164	0.065	0.000	0.109	0.019	11011	2.11	38355.5646	44044
875	5.167	0.061	0.000	0.127	0.038	11011	1.39	38355.6201	44044
875	5.189	0.101	0.000	0.112	0.055	11011	1.09	38355.7396	44044
875	5.154	0.080	0.000	0.104	0.084	11011	4.47	38355.9347	44044
875	5.126	0.055	0.000	0.099	0.005	11011	2.18	38356.5590	44044
875	5.140	0.088	0.000	0.115	0.061	11011	1.14	38356.6757	44044
875	5.173	0.093	0.000	0.127	0.064	11011	1.09	38356.7340	44044
875	5.153	0.095	0.000	0.123	0.026	11011	1.48	38368.5736	22022
875	5.177	0.051	0.000	0.123	0.091	11011	1.24	38368.7708	22022
875	5.208	0.096	0.000	0.142	0.066	11011	1.83	38370.8326	22022
875	5.129	0.087	0.000	0.112	0.027	11011	1.39	38373.5715	22022
875	5.151	0.078	0.000	0.115	-0.004	11011	1.29	38374.5847	22022
875	5.180	0.094	0.000	0.110	0.010	11011	1.30	38376.5771	22022
875	5.173	0.093	0.000	0.129	0.043	11011	1.13	38376.6229	22022
875	5.118	0.064	0.000	0.104	0.055	11011	1.63	38376.8014	22022
875	5.256	0.107	0.000	0.116	0.071	11011	1.10	38384.6743	22022
875	5.191	0.054	0.000	0.091	0.090	11011	1.64	38384.7806	22022
875	5.155	0.074	0.000	0.110	0.070	11011	1.81	38385.7903	22022
875	5.154	0.112	0.000	0.086	0.035	11011	1.30	38386.5493	44044
875	5.099	0.040	0.000	0.104	0.084	11011	2.01	38386.7986	44044
875	5.211	0.072	0.000	0.108	0.015	11011	1.26	38388.5528	44044
875	5.100	0.084	0.000	0.099	0.108	11011	1.91	38388.7882	44044
875	5.191	0.062	0.000	0.111	0.036	11011	1.22	38389.5583	44044
875	5.163	0.081	0.000	0.122	0.039	11011	1.09	38389.6306	44044
875	5.139	0.101	0.000	0.117	0.013	11011	1.13	38391.5840	44044
875	5.137	0.099	0.000	0.121	0.048	11011	1.30	38391.7194	44044
875	5.150	0.099	0.000	0.109	0.034	11011	1.15	38400.5521	44044
875	5.140	0.094	0.000	0.106	0.045	11011	1.09	38403.5771	22022
875	5.158	0.073	0.000	0.115	0.056	11011	1.14	38407.5340	44044
875	5.148	0.086	0.000	0.130	0.077	11011	2.06	38407.7437	44044
875	5.177	0.070	0.000	0.146	0.084	11011	1.23	38408.6597	22022
875	5.175	0.059	0.000	0.129	0.044	11011	1.10	38409.5562	44044
875	5.155	0.082	0.000	0.103	0.079	11011	1.91	38409.7306	44044
875	5.182	0.070	0.000	0.119	0.028	11011	1.09	38413.5583	44044
875	5.166	0.081	0.000	0.134	0.066	11011	1.09	38414.5493	44044
875	5.222	0.088	0.000	0.133	0.072	11011	1.13	38430.5653	44044
875	5.173	0.079	0.000	0.118	0.096	11011	1.72	38430.6611	44044
875	5.126	0.044	0.000	0.118	0.089	11011	2.48	38430.6972	44044
875	5.171	0.058	0.000	0.099	0.091	11011	1.72	38431.6583	44044
875	5.217	0.109	0.000	0.126	0.082	11011	2.90	38431.7132	44044
875	5.213	0.113	0.000	0.092	0.050	11011	1.16	38432.5729	44044
875	5.196	0.071	0.000	0.120	0.073	11011	1.12	38433.5514	44044
875	5.126	0.064	0.000	0.112	0.079	11011	2.35	38433.6847	44044
875	4.578	0.081	0.000	0.173	0.058	01011	1.45	38434.6243	44044
875	5.135	0.075	0.000	0.099	0.068	11011	2.73	38434.6931	44044
875	5.202	0.070	0.000	0.151	0.025	11011	1.19	38437.5681	22022
875	5.178	0.049	0.000	0.102	0.056	11011	1.19	38438.5660	44044
875	5.210	0.093	0.000	0.130	0.039	11011	1.19	38439.5639	44044
875	5.109	0.063	0.000	0.105	0.034	11011	1.53	38440.6174	44044
875	5.151	0.061	0.000	0.114	0.046	11011	1.17	38441.5507	44044
875	5.157	0.089	0.000	0.111	0.048	11011	1.91	38441.6431	44044
875	5.211	0.090	0.000	0.121	0.050	11011	1.27	38442.5736	44044
875	5.285	0.074	0.000	0.140	0.048	11011	1.18	38443.5479	44044
875	5.240	0.099	0.000	0.115	0.050	11011	4.80	38443.6972	44044
875	5.176	0.057	0.000	0.143	0.047	11011	1.20	38444.5514	44044
875	5.183	0.071	0.000	0.138	0.048	11011	1.22	38445.5542	44044
875	5.304	0.083	0.000	0.121	0.054	11011	2.58	38445.6590	44044
875	5.227	0.082	0.000	0.140	0.047	11011	1.24	38446.5576	44044
875	5.163	0.094	0.000	0.116	0.064	11011	2.55	38446.6556	44044
875	5.260	0.090	0.000	0.135	0.053	11011	1.26	38447.5583	44044
875	5.231	0.061	0.000	0.106	0.057	11011	4.23	38447.6812	44044
875	5.166	0.088	0.000	0.105	0.046	11011	1.63	38449.6021	44044
875	5.173	0.044	0.000	0.113	0.072	11011	3.48	38449.6667	44044
875	5.272	0.056	0.000	0.100	0.034	11011	1.71	38450.6056	44044
875	5.136	0.095	0.000	0.107	0.044	11011	1.63	38699.6526	44044
875	5.194	0.080	0.000	0.159	-0.011	11011	2.30	38700.6122	44044
875	5.163	0.085	0.000	0.117	0.027	11011	1.23	38700.7058	44044
875	5.107	0.055	0.000	0.108	0.083	11011	2.07	38700.9418	44044
875	5.169	0.078	0.000	0.126	-0.009	11011	2.16	38701.6149	44044
875	5.158	0.074	0.000	0.115	0.042	11011	1.18	38701.7157	44044
875	5.091	0.072	0.000	0.106	0.021	11011	2.49	38702.6003	44044
875	5.188	0.034	0.000	0.126	0.062	11011	1.11	38702.7429	44044
875	5.163	0.062	0.000	0.134	0.044	11011	1.16	38705.7861	22022
875	4.625	0.090	0.000	0.106	0.048	01011	1.76	38705.9101	22022
875	5.188	0.066	0.000	0.145	0.026	11011	3.27	38707.5691	44044
875	5.165	0.069	0.000	0.096	0.059	11011	1.13	38707.8085	44044
875	-0.015	-0.005	0.000	0.121	0.024	00011	1.69	38735.5491	44044
875	5.166	0.094	0.000	0.094	0.043	11011	1.10	38736.7131	44044
875	5.170	0.078	0.000	0.111	0.033	11011	1.20	38742.5005	44044
875	5.189	0.079	0.000	0.102	0.086	11011	1.16	38742.7236	44044
875	5.205	0.078	0.000	0.129	0.068	11011	1.17	38760.6789	44044
875	5.142	0.113	0.000	0.118	0.059	11011	3.68	38760.8176	44044
875	5.218	0.056	0.000	0.132	0.051	11011	1.09	38761.6172	44044
875	5.119	0.093	0.000	0.123	0.057	11011	3.54	38761.8129	44044
875	5.146	0.078	0.000	0.136	0.039	11011	1.09	38762.6331	44044
875	5.194	0.078	0.000	0.133	0.028	11011	1.50	38763.7289	22022
875	5.170	0.123	0.000	0.126	0.039	11011	2.84	38764.7921	44044
875	5.176	0.090	0.042	0.000	0.000	11100	1.09	38765.6250	22200
875	5.173	0.061	0.061	0.000	0.000	11100	1.79	38765.7486	22200
875	5.039	0.069	0.066	0.000	0.000	11100	1.16	38766.5458	44400
875	5.166	0.083	0.093	0.000	0.000	11100	1.16	38766.6562	44400

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
875	5.200	0.072	0.097	0.000	0.000	11100	2.73	38766.7840	44400
875	5.178	0.066	0.000	0.108	0.040	11011	1.39	38773.6886	44044
875	5.134	0.063	0.000	0.074	0.038	11011	3.81	38774.7811	44044
875	5.153	0.091	0.049	0.000	0.000	11100	1.21	38786.6188	44400
875	5.159	0.097	0.059	0.000	0.000	11100	1.95	38786.7007	44400
875	5.169	0.067	0.071	0.000	0.000	11100	1.10	38787.5736	44400
875	5.195	0.081	0.091	0.000	0.000	11100	1.97	38787.6993	44400
875	5.154	0.060	0.000	0.095	0.060	11011	2.40	38791.7064	44044
875	5.172	0.120	0.057	0.000	0.000	11100	1.13	38798.5597	44400
875	5.160	0.072	0.097	0.000	0.000	11100	1.95	38798.6681	44400
875	5.186	0.091	0.084	0.000	0.000	11100	1.13	38799.5542	44400
875	5.178	0.078	0.077	0.000	0.000	11100	2.35	38799.6826	44400
875	5.060	0.075	0.000	0.067	0.079	11011	3.29	38836.6043	44044
875	5.162	0.039	0.000	0.092	0.099	11011	3.99	38837.6112	44044
875	5.147	0.064	0.021	0.000	0.000	11100	2.72	38844.5707	44400
875	5.104	0.061	0.103	0.000	0.000	11100	2.61	38846.5624	44400
878	5.779	0.411	0.000	0.392	0.202	11011	1.13	38350.6590	44044
878	5.757	0.424	0.000	0.377	0.196	11011	1.59	38351.5875	44044
878	5.769	0.432	0.000	0.367	0.192	11011	1.79	38352.5694	44044
878	5.756	0.473	0.000	0.352	0.212	11011	1.76	38353.5687	44044
878	5.773	0.403	0.000	0.377	0.206	11011	1.60	38354.5785	44044
878	5.798	0.406	0.000	0.390	0.186	11011	1.38	38355.5986	44044
887	4.616	0.069	0.000	0.066	0.021	11011	1.92	38836.5862	44044
887	4.596	0.035	0.000	0.053	0.025	11011	1.77	38837.5744	44044
887	4.560	0.016	0.000	0.032	0.007	11011	1.88	38838.5787	44044
897	2.921	0.114	0.000	0.159	0.071	11011	1.98	38342.7785	44044
897	2.932	0.099	0.000	0.186	0.054	11011	2.08	38370.6417	22022
897	2.876	0.108	0.000	0.087	0.111	11011	2.04	38373.6417	22022
897	2.908	0.124	0.000	0.145	0.060	11011	1.98	38400.6229	44044
906	5.888	0.236	0.000	0.128	0.080	11011	2.55	38836.5911	44044
906	5.912	0.120	0.000	0.145	0.078	11011	2.54	38837.5869	44044
906	5.825	0.106	0.000	0.107	0.072	11011	2.57	38838.5897	44044
963	3.928	0.499	0.000	0.450	0.265	11011	1.56	38370.6569	22022
963	3.853	0.511	0.000	0.459	0.340	11011	1.60	38373.6368	22022
963	3.861	0.516	0.000	0.480	0.301	11011	1.58	38374.6403	22022
963	3.861	0.551	0.000	0.475	0.328	11011	1.50	38400.6271	44044
977	5.736	2.366	0.000	1.886	1.339	11011	4.20	38698.8092	44044
977	5.777	2.185	0.000	1.869	1.375	11011	4.21	38700.7988	44044
977	5.695	2.222	0.000	1.926	1.370	11011	4.19	38701.7928	44044
977	5.738	2.303	0.000	1.878	1.426	11011	4.19	38702.7879	44044
1008	4.283	0.713	0.000	0.621	0.425	11011	2.14	38342.7847	44044
1008	4.251	0.696	0.000	0.622	0.383	11011	2.28	38374.6444	22022
1008	4.260	0.743	0.000	0.604	0.410	11011	2.15	38400.6313	44044
1016	5.440	0.897	0.000	0.642	0.497	11011	2.29	38836.5640	44044
1016	5.449	0.857	0.000	0.674	0.465	11011	2.30	38837.5619	44044
1016	5.359	0.825	0.000	0.657	0.455	11011	2.42	38838.5640	44044
1084	3.642	0.878	0.000	0.683	0.434	11011	1.45	38099.5562	44044
1084	3.778	0.969	0.000	0.737	0.460	11011	2.74	38099.6292	44044
1084	3.748	0.884	0.000	0.692	0.473	11011	1.86	38107.5722	44044
1084	3.925	0.866	0.000	0.705	0.481	11011	1.94	38113.5604	44044
1084	3.737	0.902	0.000	0.729	0.468	11011	3.67	38114.6056	44044
1084	3.835	0.802	0.000	0.729	0.419	11011	3.59	38124.5771	44044
1084	3.739	0.844	0.000	0.772	0.507	11011	2.05	38699.6585	44044
1084	3.738	0.787	0.000	0.725	0.433	11011	3.40	38700.6177	44044
1084	3.710	0.941	0.000	0.727	0.438	11011	1.48	38700.6999	44044
1084	3.705	0.872	0.000	0.735	0.495	11011	1.87	38700.9482	44044
1084	3.749	0.831	0.000	0.749	0.430	11011	3.03	38701.6218	44044
1084	3.705	0.938	0.000	0.713	0.467	11011	1.38	38701.7114	44044
1084	3.654	0.873	0.000	0.712	0.219	11011	3.41	38702.6131	44044
1084	3.706	0.891	0.000	0.728	0.477	11011	1.24	38702.7379	44044
1084	3.708	0.909	0.000	0.716	0.456	11011	1.16	38705.7662	22022
1084	3.673	0.901	0.000	0.712	0.480	11011	1.47	38705.8989	22022
1084	3.705	0.903	0.000	0.693	0.463	11011	2.19	38707.6301	44044
1084	3.688	0.913	0.000	0.693	0.491	11011	1.15	38707.8131	44044
1084	3.714	0.894	0.000	0.726	0.490	11011	2.20	38735.5532	44044
1084	3.670	0.929	0.000	0.706	0.461	11011	1.14	38736.7178	44044
1084	3.672	0.876	0.000	0.715	0.430	11011	1.77	38738.5690	22022
1084	3.675	0.868	0.000	0.718	0.432	11011	1.78	38742.5572	44044
1084	3.774	0.908	0.000	0.784	0.484	11011	1.16	38742.7192	44044
1084	3.705	0.938	0.000	0.716	0.476	11011	1.18	38760.6847	44044
1084	3.670	0.878	0.000	0.708	0.469	11011	2.89	38760.8226	44044
1084	3.706	0.900	0.000	0.739	0.469	11011	1.16	38761.6131	44044
1084	3.678	0.850	0.000	0.707	0.480	11011	2.80	38761.8178	44044
1084	3.691	0.904	0.000	0.727	0.445	11011	1.14	38762.6378	44044
1084	3.735	0.888	0.000	0.719	0.455	11011	1.36	38763.7236	22022
1084	3.661	0.827	0.000	0.715	0.479	11011	2.41	38764.7982	44044
1084	3.681	0.901	0.000	0.698	0.485	11011	1.30	38773.6844	44044
1084	3.699	0.901	0.000	0.716	0.452	11011	2.93	38774.7851	44044
1084	3.656	0.879	0.000	0.698	0.476	11011	2.07	38791.7106	44044
1084	3.694	0.894	0.000	0.727	0.479	11011	1.46	38793.6571	44044
1084	3.650	0.879	0.000	0.705	0.498	11011	2.63	38836.6083	44044
1084	3.699	0.927	0.000	0.717	0.496	11011	3.03	38837.6154	44044
1084	3.704	0.877	0.551	0.000	0.000	11100	2.07	38844.5660	44400
1084	3.777	0.906	0.536	0.000	0.000	11100	2.04	38846.5591	44400
1106	4.595	1.024	0.000	0.850	0.577	11011	1.96	38342.7917	44044
1106	4.572	1.044	0.000	0.818	0.552	11011	2.13	38374.6486	22022
1106	4.627	1.084	0.000	0.844	0.574	11011	2.25	38376.6285	22022
1134	4.974	-0.166	0.000	-0.068	-0.151	11011	1.60	38342.7993	44044
1134	5.006	-0.117	0.000	-0.040	-0.140	11011	1.64	38374.7403	22022
1140	5.414	-0.051	0.000	0.045	-0.075	11011	1.56	38356.6069	44044
1140	5.424	-0.049	0.000	0.032	-0.059	11011	1.51	38356.6118	44044
1140	5.455	-0.031	0.000	0.055	-0.039	11011	1.03	38407.5778	44044
1140	5.571	-0.048	0.000	0.089	-0.043	11011	1.18	38445.6090	44044
1140	5.560	-0.033	0.000	0.075	-0.015	11011	1.65	38824.6342	44044
1142	3.681	-0.123	0.000	0.011	-0.108	11011	1.47	38356.6167	44044
1142	3.654	-0.123	0.000	-0.039	-0.088	11011	1.43	38356.6208	44044

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B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1142	3.697	-0.158	0.000	0.008	-0.083	11011	1.03	38407.5826	44044
1142	3.766	-0.108	0.000	-0.002	-0.061	11011	1.20	38445.6125	44044
1144	5.631	-0.074	0.000	0.009	-0.111	11011	1.80	38356.5882	44044
1144	5.608	-0.064	0.000	-0.025	-0.086	11011	1.76	38356.5910	44044
1144	5.613	-0.088	0.000	0.024	-0.092	11011	1.19	38356.6611	44044
1144	5.698	-0.096	0.000	0.052	-0.057	11011	1.01	38356.7493	44044
1144	5.651	-0.087	0.000	0.027	-0.078	11011	1.06	38407.5646	44044
1144	5.639	-0.068	0.000	0.018	-0.073	11011	1.01	38407.6306	44044
1144	5.657	-0.070	0.000	0.008	-0.052	11011	1.01	38409.5924	44044
1144	5.650	-0.065	0.000	0.014	-0.054	11011	1.01	38409.6257	44044
1144	5.738	-0.073	0.000	0.025	-0.100	11011	1.06	38443.5743	44044
1144	5.735	-0.090	0.000	0.019	-0.077	11011	1.14	38443.6035	44044
1144	5.715	-0.076	0.000	0.020	-0.051	11011	1.62	38443.6750	44044
1144	5.656	-0.072	0.000	0.045	-0.077	11011	1.07	38444.5771	44044
1144	5.694	-0.115	0.000	0.013	-0.051	11011	2.49	38444.7167	44044
1144	5.708	-0.084	0.000	0.024	-0.072	11011	1.06	38445.5708	44044
1144	5.753	-0.073	0.000	0.024	-0.063	11011	1.34	38445.6375	44044
1144	5.703	-0.068	0.000	0.033	-0.064	11011	1.07	38446.5715	44044
1144	5.702	-0.074	0.000	0.029	-0.061	11011	1.16	38446.6000	44044
1144	5.703	-0.076	0.000	0.027	-0.040	11011	1.43	38446.6472	44044
1144	5.714	-0.077	0.000	0.030	-0.070	11011	1.10	38447.5799	44044
1144	5.737	-0.095	0.000	0.035	-0.058	11011	1.78	38447.6757	44044
1144	5.742	-0.070	0.000	0.042	-0.043	11011	1.70	38824.6382	44044
1145	4.254	-0.117	0.000	-0.015	-0.108	11011	1.39	38356.6257	44044
1145	4.304	-0.121	0.000	0.023	-0.081	11011	1.02	38407.5854	44044
1145	4.366	-0.114	0.000	0.021	-0.081	11011	1.22	38445.6174	44044
1149	3.840	-0.077	0.000	0.028	-0.070	11011	1.36	38356.6306	44044
1149	3.871	-0.080	0.000	0.061	-0.053	11011	1.02	38407.5896	44044
1149	3.941	-0.093	0.000	0.073	-0.045	11011	1.23	38445.6208	44044
1151	5.729	-0.041	0.000	0.023	-0.051	11011	1.33	38356.6347	44044
1151	5.770	-0.037	0.000	0.064	-0.038	11011	1.01	38407.5979	44044
1151	5.852	-0.063	0.000	0.056	-0.036	11011	1.28	38445.6299	44044
1151	5.866	-0.041	0.000	0.083	-0.015	11011	1.74	38824.6418	44044
1152	6.434	-0.030	0.000	0.043	-0.026	11011	1.01	38407.6028	44044
1152	6.556	-0.047	0.000	0.065	-0.007	11011	1.31	38445.6340	44044
1152	6.478	-0.004	0.000	0.018	-0.008	11011	1.16	38815.5904	44044
1152	6.511	-0.006	0.000	0.046	-0.045	11011	1.32	38816.6203	22022
1156	4.127	-0.048	0.000	0.052	-0.036	11011	1.31	38356.6389	44044
1156	4.165	-0.048	0.000	0.074	-0.027	11011	1.01	38407.6069	44044
1156	4.222	-0.052	0.000	0.086	-0.009	11011	1.11	38446.5875	44044
1165	2.825	-0.098	0.000	0.021	-0.084	11011	2.09	38356.5743	44044
1165	2.826	-0.078	0.000	0.009	-0.066	11011	1.99	38356.5792	44044
1165	2.836	-0.095	0.000	0.029	-0.064	11011	1.24	38356.6521	44044
1165	2.875	-0.078	0.000	0.036	-0.017	11011	1.00	38356.7604	44044
1165	2.858	-0.077	0.000	0.038	-0.049	11011	1.04	38407.5736	44044
1165	2.847	-0.091	0.000	0.033	-0.053	11011	1.00	38407.6222	44044
1165	2.867	-0.120	0.000	0.041	-0.049	11011	1.02	38409.5840	44044
1165	2.876	-0.088	0.000	0.031	-0.033	11011	1.01	38409.6340	44044
1165	3.457	-0.074	0.000	0.020	-0.049	01011	1.05	38443.5701	44044
1165	2.850	-0.089	0.000	0.049	-0.025	11011	1.06	38444.5729	44044
1165	2.919	-0.107	0.000	0.047	-0.015	11011	1.05	38445.5667	44044
1165	2.911	-0.101	0.000	0.049	-0.027	11011	1.09	38446.5799	44044
1165	2.933	-0.103	0.000	0.048	-0.043	11011	1.08	38447.5750	44044
1172	5.452	-0.077	0.000	0.035	-0.067	11011	1.00	38407.6187	44044
1172	5.500	-0.082	0.000	0.039	-0.046	11011	1.13	38446.5958	44044
1172	5.597	-0.078	0.000	0.081	-0.062	11011	1.84	38824.6494	44044
1178	3.584	-0.073	0.000	0.004	-0.075	11011	1.29	38356.6431	44044
1178	3.606	-0.093	0.000	0.022	-0.060	11011	1.01	38409.6007	44044
1178	3.673	-0.103	0.000	0.043	-0.045	11011	1.09	38446.5840	44044
1180	4.973	-0.090	0.000	0.055	-0.077	11011	1.26	38356.6479	44044
1180	4.992	-0.081	0.000	0.065	-0.058	11011	1.01	38409.6049	44044
1180	5.060	-0.091	0.000	0.068	-0.048	11011	1.12	38446.5917	44044
1180	5.154	-0.061	0.000	0.098	-0.065	01011	1.89	38824.6535	44044
1183	6.150	-0.045	0.000	0.026	-0.045	11011	1.00	38409.6132	44044
1183	6.228	-0.067	0.000	0.057	-0.036	11011	1.17	38446.6076	44044
1183	6.199	-0.026	0.000	-0.001	-0.046	11011	1.54	38815.6521	44044
1183	6.187	-0.013	0.000	0.011	-0.044	11011	1.71	38816.6639	22022
1185	6.169	-0.017	0.000	0.068	-0.005	11011	1.55	38817.6472	22022
1185	6.101	-0.021	0.000	0.068	0.001	11011	1.54	38822.6321	44044
1185	6.180	-0.005	0.000	0.085	-0.032	11011	1.47	38823.6229	44044
1190	4.271	-0.020	0.000	0.018	-0.019	11011	1.85	38342.8236	44044
1190	4.253	-0.015	0.000	0.017	-0.060	11011	1.97	38374.6569	22022
1190	4.302	0.009	0.000	0.026	-0.034	11011	2.12	38376.6326	22022
1195	4.190	0.927	0.000	0.732	0.501	11011	1.80	38342.8285	44044
1195	4.222	0.971	0.000	0.719	0.497	11011	2.00	38376.6368	22022
1195	4.159	0.986	0.000	0.684	0.496	11011	1.77	38400.6604	44044
1201	5.943	0.329	0.000	0.329	0.163	11011	1.19	38350.6826	44044
1201	5.963	0.356	0.000	0.331	0.157	11011	1.63	38351.6236	44044
1201	5.955	0.333	0.000	0.317	0.169	11011	2.64	38352.5743	44044
1201	5.961	0.323	0.000	0.340	0.184	11011	1.04	38407.6687	44044
1233	6.346	0.411	0.000	0.396	0.202	11011	1.20	38350.6910	44044
1233	6.382	0.429	0.000	0.367	0.231	11011	1.69	38351.6285	44044
1233	6.369	0.419	0.000	0.359	0.230	11011	2.08	38353.6007	44044
1233	6.347	0.420	0.000	0.379	0.233	11011	1.05	38407.6736	44044
1238	5.819	0.280	0.000	0.310	0.153	11011	1.30	38356.6931	44044
1238	5.914	0.289	0.000	0.328	0.165	11011	1.02	38413.6174	44044
1238	5.854	0.279	0.000	0.346	0.153	11011	1.09	38414.5833	44044
1238	5.939	0.328	0.000	0.313	0.185	11011	1.03	38437.5854	22022
1238	5.897	0.306	0.000	0.319	0.178	11011	1.03	38438.5826	44044
1254	5.443	0.355	0.000	0.367	0.195	11011	1.06	38350.7410	44044
1254	5.453	0.292	0.000	0.377	0.188	11011	1.33	38351.6701	44044
1254	5.454	0.375	0.000	0.361	0.194	11011	2.08	38353.6056	44044

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B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1254	5.432	0.358	0.000	0.357	0.239	11011	1.71	38409.7778	44044
1254	5.440	0.342	0.000	0.389	0.210	11011	1.02	38414.5972	44044
1279	5.997	0.381	0.000	0.385	0.215	11011	1.04	38350.7458	44044
1279	6.017	0.358	0.000	0.417	0.189	11011	1.28	38351.6743	44044
1279	5.988	0.408	0.000	0.367	0.179	11011	2.14	38352.6028	44044
1279	6.000	0.378	0.000	0.364	0.227	11011	1.04	38407.6778	44044
1292	5.703	0.340	0.000	0.336	0.195	11011	1.06	38350.7556	44044
1292	5.715	0.307	0.000	0.378	0.176	11011	1.26	38351.6896	44044
1292	5.695	0.370	0.000	0.321	0.148	11011	2.28	38352.6076	44044
1292	5.730	0.363	0.000	0.351	0.203	11011	1.07	38409.6764	44044
1292	5.693	0.320	0.000	0.379	0.190	11011	1.03	38414.6090	44044
1292	5.762	0.392	0.000	0.348	0.192	11011	1.05	38437.5896	22022
1292	5.715	0.328	0.000	0.326	0.195	11011	1.05	38438.5868	44044
1292	5.698	0.372	0.000	0.343	0.187	11011	1.99	38441.7097	44044
1302	4.962	0.324	0.000	0.362	0.225	11011	2.10	38342.8382	44044
1302	4.968	0.335	0.000	0.344	0.190	11011	2.08	38374.7444	22022
1302	4.990	0.373	0.000	0.341	0.210	11011	2.51	38376.6410	22022
1319	6.313	0.398	0.000	0.369	0.211	11011	1.01	38350.7715	44044
1319	6.316	0.373	0.000	0.390	0.197	11011	1.16	38351.7035	44044
1319	6.355	0.383	0.000	0.385	0.206	11011	1.89	38353.6174	44044
1319	6.308	0.405	0.000	0.371	0.224	11011	1.07	38409.6937	44044
1326	3.889	1.085	0.000	0.863	0.606	11011	2.12	38342.8424	44044
1326	3.900	1.132	0.000	0.846	0.576	11011	2.11	38374.7486	22022
1326	3.936	1.144	0.000	0.868	0.579	11011	2.51	38376.6451	22022
1331	5.646	0.265	0.000	0.288	0.179	11011	1.00	38350.8049	44044
1331	5.640	0.256	0.000	0.293	0.132	11011	1.11	38351.7187	44044
1331	5.625	0.297	0.000	0.249	0.110	11011	2.00	38352.6125	44044
1331	5.643	0.278	0.000	0.279	0.176	11011	1.08	38409.7021	44044
1346	3.665	1.010	0.000	0.743	0.495	11011	1.01	38350.8111	44044
1346	3.659	0.978	0.000	0.724	0.418	11011	1.68	38352.6361	44044
1346	3.669	0.987	0.000	0.732	0.450	11011	1.62	38353.6382	44044
1347	3.534	-0.114	0.000	-0.024	-0.095	11011	1.69	38342.8472	44044
1347	3.564	-0.106	0.000	0.004	-0.116	11011	1.68	38374.7535	22022
1347	3.597	-0.092	0.000	-0.003	-0.110	11011	1.94	38376.6493	22022
1351	5.574	0.286	0.000	0.282	0.179	11011	1.01	38350.8194	44044
1351	5.564	0.260	0.000	0.274	0.170	11011	1.00	38351.7931	44044
1351	5.599	0.274	0.000	0.288	0.107	11011	1.49	38352.6542	44044
1351	5.571	0.281	0.000	0.282	0.158	11011	1.12	38409.7139	44044
1354	6.112	0.375	0.000	0.383	0.231	11011	1.04	38350.8431	44044
1354	6.087	0.358	0.000	0.367	0.230	11011	1.01	38351.8153	44044
1354	6.077	0.382	0.000	0.323	0.146	11011	1.14	38388.6097	44044
1354	6.069	0.363	0.000	0.354	0.172	11011	1.09	38389.6215	44044
1354	6.098	0.369	0.000	0.359	0.221	11011	1.13	38409.7181	44044
1354	6.104	0.338	0.000	0.405	0.215	11011	1.00	384144.6264	44044
1354	6.133	0.379	0.000	0.359	0.201	11011	1.02	38437.5931	22022
1354	6.120	0.357	0.000	0.364	0.210	11011	1.02	38438.5910	44044
1355	4.370	1.125	0.000	0.800	0.548	11011	4.85	38698.8458	44044
1355	4.565	0.990	0.000	0.817	0.569	11011	4.85	38700.8421	44044
1355	4.380	0.974	0.000	0.881	0.519	11011	4.85	38701.8296	44044
1356	5.260	0.213	0.000	0.240	0.129	11011	1.05	38350.8479	44044
1356	5.248	0.192	0.000	0.228	0.140	11011	1.01	38351.8201	44044
1356	5.265	0.220	0.000	0.230	0.070	11011	1.40	38352.6646	44044
1356	5.239	0.230	0.000	0.224	0.122	11011	1.15	38409.7229	44044
1358	6.154	0.459	0.000	0.420	0.276	11011	1.06	38350.8521	44044
1358	6.150	0.433	0.000	0.424	0.273	11011	1.02	38351.8243	44044
1358	6.155	0.435	0.000	0.420	0.215	11011	1.28	38353.6792	44044
1358	6.153	0.421	0.000	0.421	0.239	11011	1.07	38353.7333	44044
1358	6.152	0.449	0.000	0.406	0.271	11011	1.17	38409.7271	44044
1368	5.721	0.306	0.000	0.318	0.180	11011	1.16	38350.8861	44044
1368	5.697	0.301	0.000	0.300	0.187	11011	1.08	38351.8583	44044
1368	5.711	0.289	0.000	0.311	0.149	11011	1.05	38353.7431	44044
1368	5.759	0.329	0.000	0.292	0.179	11011	1.11	38437.6354	22022
1373	3.759	0.997	0.000	0.722	0.506	11011	1.22	38350.9014	44044
1373	3.761	0.981	0.000	0.724	0.501	11011	1.11	38351.8708	44044
1373	3.775	0.978	0.000	0.730	0.423	11011	1.23	38352.6896	44044
1373	3.760	0.977	0.000	0.709	0.466	11011	1.04	38353.7472	44044
1376	5.622	0.275	0.000	0.274	0.185	11011	1.45	38350.9354	44044
1376	5.628	0.275	0.000	0.290	0.162	11011	1.19	38351.8937	44044
1376	5.613	0.287	0.000	0.274	0.132	11011	1.03	38353.7521	44044
1376	5.667	0.316	0.000	0.255	0.149	11011	1.13	38437.6437	22022
1380	4.796	0.132	0.000	0.174	0.117	11011	1.48	38350.9396	44044
1380	4.801	0.137	0.000	0.187	0.095	11011	1.21	38351.8979	44044
1380	4.799	0.142	0.000	0.183	0.044	11011	1.14	38352.7118	44044
1380	4.782	0.147	0.000	0.156	0.078	11011	1.02	38353.7562	44044
1381	5.146	0.107	0.000	0.111	0.043	11011	1.57	38825.6432	44044
1381	5.169	0.092	0.000	0.111	0.043	11011	1.47	38827.6278	44044
1381	5.112	0.095	0.000	0.069	0.061	11011	1.41	38836.5960	44044
1383	5.215	0.051	0.000	0.080	0.037	11011	1.76	38820.6569	22022
1383	5.211	0.108	0.000	0.078	0.045	11011	1.71	38825.6393	44044
1383	5.253	0.067	0.000	0.139	0.020	11011	1.59	38827.6243	44044
1385	5.949	0.349	0.000	0.372	0.237	11011	1.78	38350.9660	44044
1385	5.975	0.356	0.000	0.376	0.246	11011	1.36	38351.9243	44044
1385	5.976	0.360	0.000	0.388	0.169	11011	1.12	38352.7167	44044
1385	6.005	0.376	0.000	0.386	0.228	11011	1.18	38437.6569	22022
1387	4.199	0.104	0.000	0.169	0.094	11011	1.38	38351.9285	44044
1387	4.223	0.099	0.000	0.172	0.035	11011	1.11	38352.7215	44044
1387	4.185	0.090	0.000	0.136	0.054	11011	1.02	38353.7653	44044
1387	4.220	0.139	0.000	0.160	0.029	11011	1.70	38354.6299	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1388	5.265	0.224	0.000	0.274	0.164	11011	1.47	38351.9389	44044
1388	5.272	0.214	0.000	0.261	0.099	11011	1.10	38352.7250	44044
1388	5.314	0.242	0.000	0.248	0.156	11011	1.19	38437.6604	22022
1389	4.288	0.036	0.000	0.095	0.059	11011	1.54	38351.9437	44044
1389	4.287	0.030	0.000	0.106	-0.025	11011	1.09	38352.7292	44044
1389	4.276	0.014	0.000	0.094	0.020	11011	1.01	38353.7694	44044
1389	4.297	0.060	0.000	0.082	-0.009	11011	1.61	38354.6389	44044
1391	6.442	0.484	0.000	0.476	0.287	11011	1.59	38351.9479	44044
1391	6.453	0.480	0.000	0.465	0.229	11011	1.07	38352.7382	44044
1391	6.450	0.503	0.000	0.438	0.214	11011	1.57	38354.6437	44044
1391	6.469	0.485	0.000	0.428	0.279	11011	1.22	38437.6653	22022
1392	4.269	0.236	0.000	0.281	0.195	11011	2.40	38351.9951	44044
1392	4.280	0.226	0.000	0.289	0.147	11011	1.00	38352.8035	44044
1392	4.248	0.247	0.000	0.249	0.151	11011	1.01	38353.7729	44044
1392	4.269	0.279	0.000	0.254	0.120	11011	1.50	38354.6479	44044
1393	3.960	1.473	0.000	1.173	0.831	11011	1.70	38342.8521	44044
1393	3.993	1.482	0.000	1.151	0.829	11011	1.69	38374.7618	22022
1393	4.042	1.523	0.000	1.183	0.826	11011	1.95	38376.6535	22022
1394	4.452	0.225	0.000	0.268	0.128	11011	1.16	38356.6972	44044
1394	4.479	0.266	0.000	0.249	0.177	11011	1.29	38409.7549	44044
1394	4.503	0.253	0.000	0.244	0.172	11011	1.23	38437.6681	22022
1394	4.516	0.224	0.000	0.271	0.148	11011	1.03	38438.6035	44044
1403	5.706	0.241	0.000	0.264	0.140	11011	1.02	38352.8278	44044
1403	5.682	0.269	0.000	0.237	0.148	11011	1.01	38353.8118	44044
1403	5.693	0.280	0.000	0.231	0.123	11011	1.47	38354.6528	44044
1403	5.746	0.258	0.000	0.259	0.148	11011	1.29	38437.6812	22022
1408	5.909	0.278	0.000	0.346	0.189	11011	1.03	38352.8326	44044
1408	5.869	0.321	0.000	0.294	0.204	11011	1.01	38353.8160	44044
1408	5.890	0.324	0.000	0.313	0.151	11011	1.46	38354.6576	44044
1408	5.901	0.334	0.000	0.302	0.198	11011	1.33	38437.6854	22022
1409	3.539	0.985	0.000	0.757	0.484	11011	1.03	38352.8403	44044
1409	3.535	1.014	0.000	0.726	0.498	11011	1.01	38353.8201	44044
1409	3.511	1.016	0.000	0.707	0.450	11011	1.40	38354.6625	44044
1409	3.524	1.020	0.000	0.718	0.413	11011	1.52	38355.6458	44044
1411	3.808	0.944	0.000	0.693	0.416	11011	1.98	38350.6292	44044
1411	3.824	0.952	0.000	0.704	0.455	11011	1.09	38350.7354	44044
1411	3.839	0.954	0.000	0.719	0.486	11011	1.01	38350.8250	44044
1411	3.841	0.937	0.000	0.723	0.491	11011	1.28	38350.9153	44044
1411	3.820	0.928	0.000	0.718	0.482	11011	1.83	38350.9694	44044
1411	3.815	0.974	0.000	0.679	0.446	11011	2.63	38351.6028	44044
1411	3.833	0.942	0.000	0.712	0.435	11011	1.57	38351.6542	44044
1411	3.848	0.932	0.000	0.716	0.457	11011	1.09	38351.7333	44044
1411	3.822	0.941	0.000	0.704	0.478	11011	1.00	38351.8021	44044
1411	3.832	0.930	0.000	0.729	0.487	11011	1.13	38351.8812	44044
1411	3.826	0.928	0.000	0.715	0.501	11011	2.06	38351.9792	44044
1411	3.848	0.922	0.000	0.704	0.443	11011	3.37	38352.5847	44044
1411	3.819	0.958	0.000	0.690	0.413	11011	1.85	38352.6312	44044
1411	3.833	0.932	0.000	0.716	0.414	11011	1.24	38352.6937	44044
1411	3.833	0.925	0.000	0.714	0.450	11011	1.00	38352.7903	44044
1411	3.835	0.935	0.000	0.720	0.480	11011	1.08	38352.8639	44044
1411	3.836	0.923	0.000	0.729	0.491	11011	1.44	38352.9326	44044
1411	3.864	0.983	0.000	0.708	0.464	11011	3.51	38353.5799	44044
1411	3.833	0.955	0.000	0.707	0.433	11011	1.78	38353.6326	44044
1411	3.839	0.937	0.000	0.709	0.440	11011	1.28	38353.6840	44044
1411	3.837	0.938	0.000	0.713	0.459	11011	1.00	38353.7819	44044
1411	3.821	0.930	0.000	0.701	0.487	11011	1.08	38353.8590	44044
1411	3.785	0.967	0.000	0.688	0.501	11011	1.48	38353.9333	44044
1411	3.788	0.974	0.000	0.698	0.501	11011	2.61	38353.9931	44044
1411	3.816	0.944	0.000	0.693	0.452	11011	3.10	38354.5840	44044
1411	3.835	0.940	0.000	0.690	0.441	11011	1.97	38354.6187	44044
1411	3.821	0.944	0.000	0.687	0.431	11011	1.37	38354.6667	44044
1411	3.811	0.956	0.000	0.673	0.446	11011	1.10	38354.7222	44044
1411	3.814	0.956	0.000	0.693	0.450	11011	1.00	38354.7896	44044
1411	3.811	0.943	0.000	0.694	0.459	11011	1.09	38354.8590	44044
1411	3.795	0.988	0.000	0.677	0.489	11011	1.51	38354.9340	44044
1411	3.824	0.942	0.000	0.706	0.410	11011	1.81	38355.6250	44044
1411	3.831	0.961	0.000	0.695	0.421	11011	1.11	38355.7160	44044
1411	3.829	0.974	0.000	0.685	0.454	11011	1.00	38355.7979	44044
1411	3.832	0.948	0.000	0.699	0.484	11011	1.08	38355.8549	44044
1411	3.817	0.961	0.000	0.679	0.492	11011	1.36	38355.9146	44044
1411	3.814	0.913	0.000	0.732	0.431	11011	1.25	38356.6806	44044
1411	3.858	0.921	0.000	0.749	0.441	11011	1.09	38356.7208	44044
1411	3.826	0.937	0.000	0.697	0.473	11011	1.00	38407.6472	44044
1411	3.826	0.940	0.000	0.723	0.479	11011	1.30	38407.7632	44044
1411	3.861	0.938	0.000	0.746	0.482	11011	1.03	38408.6847	22022
1411	3.834	0.956	0.000	0.726	0.471	11011	1.01	38409.6583	44044
1411	3.838	0.912	0.000	0.718	0.474	11011	1.22	38409.7437	44044
1411	3.769	0.927	0.000	0.708	0.488	11011	1.89	38409.8118	44044
1411	3.812	0.945	0.000	0.700	0.425	11011	1.03	38413.5896	44044
1411	3.822	0.920	0.000	0.730	0.435	11011	1.08	38414.5653	44044
1411	3.921	0.845	0.000	0.744	0.500	11011	1.00	38414.6424	44044
1411	3.865	0.984	0.000	0.709	0.462	11011	1.00	38437.5729	22022
1411	3.871	0.975	0.000	0.707	0.473	11011	1.07	38437.6271	22022
1411	3.843	0.953	0.000	0.707	0.460	11011	1.36	38437.6896	22022
1411	3.790	0.902	0.000	0.687	0.448	11011	2.05	38437.7437	22022
1411	3.844	0.940	0.000	0.706	0.462	11011	1.00	38438.5708	44044
1411	3.883	0.916	0.000	0.731	0.480	11011	1.17	38438.6528	44044
1411	3.853	0.941	0.000	0.709	0.456	11011	1.92	38438.7347	44044
1411	3.800	0.945	0.000	0.695	0.439	11011	1.00	38440.5715	44044
1411	3.854	0.967	0.000	0.687	0.383	11011	2.01	38440.7337	44044
1411	3.821	0.926	0.000	0.690	0.481	11011	1.01	38441.5729	44044
1411	3.815	0.960	0.000	0.707	0.454	11011	2.12	38441.7361	44044
1411	3.851	0.940	0.000	0.720	0.462	11011	1.04	38442.5972	44044
1411	3.902	0.963	0.000	0.710	0.474	11011	1.58	38442.7007	44044
1411	3.879	0.943	0.000	0.724	0.490	11011	1.53	38443.6931	44044
1412	3.361	0.153	0.000	0.175	0.048	11011	1.87	38350.6354	44044
1412	3.372	0.166	0.000	0.183	0.074	11011	1.10	38350.7312	44044
1412	3.405	0.164	0.000	0.198	0.126	11011	1.01	38350.8292	44044
1412	3.393	0.161	0.000	0.203	0.107	11011	1.25	38350.9111	44044
1412	3.367	0.159	0.000	0.178	0.114	11011	1.90	38350.9736	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1412	3.366	0.190	0.000	0.181	0.071	11011	2.40	38351.6097	44044
1412	3.394	0.167	0.000	0.192	0.066	11011	1.51	38351.6597	44044
1412	3.411	0.160	0.000	0.211	0.080	11011	1.08	38351.7382	44044
1412	3.399	0.169	0.000	0.199	0.113	11011	1.00	38351.7972	44044
1412	3.402	0.157	0.000	0.211	0.114	11011	1.15	38351.8854	44044
1412	3.395	0.153	0.000	0.214	0.128	11011	1.98	38351.9750	44044
1412	3.642	0.333	0.000	0.258	0.097	11011	1.74	38352.5937	44044
1412	3.257	0.180	0.000	0.178	0.045	11011	1.91	38352.6278	44044
1412	3.401	0.155	0.000	0.198	0.056	11011	1.22	38352.6972	44044
1412	3.401	0.153	0.000	0.191	0.097	11011	1.00	38352.7951	44044
1412	3.395	0.166	0.000	0.195	0.107	11011	1.06	38352.8549	44044
1412	3.403	0.130	0.000	0.222	0.116	11011	1.48	38352.9368	44044
1412	3.418	0.176	0.000	0.198	0.108	11011	3.10	38353.5868	44044
1412	3.420	0.171	0.000	0.192	0.078	11011	1.85	38353.6285	44044
1412	3.402	0.168	0.000	0.186	0.086	11011	1.25	38353.6882	44044
1412	3.371	0.154	0.000	0.175	0.111	11011	1.00	38353.7861	44044
1412	3.380	0.146	0.000	0.184	0.108	11011	1.09	38353.8632	44044
1412	3.353	0.150	0.000	0.183	0.136	11011	1.52	38353.9382	44044
1412	3.344	0.175	0.000	0.175	0.137	11011	2.42	38353.9875	44044
1412	3.388	0.170	0.000	0.177	0.090	11011	2.84	38354.5896	44044
1412	3.410	0.163	0.000	0.195	0.082	11011	2.09	38354.6132	44044
1412	3.389	0.177	0.000	0.181	0.062	11011	1.34	38354.6708	44044
1412	3.386	0.179	0.000	0.179	0.072	11011	1.11	38354.7181	44044
1412	3.381	0.188	0.000	0.174	0.088	11011	1.00	38354.7937	44044
1412	3.402	0.168	0.000	0.193	0.109	11011	1.07	38354.8542	44044
1412	3.366	0.187	0.000	0.174	0.131	11011	1.55	38354.9382	44044
1412	3.389	0.162	0.000	0.187	0.046	11011	1.75	38355.6292	44044
1412	3.375	0.182	0.000	0.171	0.054	11011	1.10	38355.7201	44044
1412	3.388	0.188	0.000	0.173	0.087	11011	1.00	38355.7937	44044
1412	3.376	0.184	0.000	0.174	0.113	11011	1.10	38355.8597	44044
1412	3.360	0.207	0.000	0.151	0.122	11011	1.40	38355.9194	44044
1412	3.369	0.192	0.000	0.157	0.120	11011	1.44	38355.9236	44044
1412	3.372	0.156	0.000	0.185	0.078	11011	1.23	38356.6847	44044
1412	3.388	0.160	0.000	0.202	0.074	11011	1.08	38356.7243	44044
1412	3.392	0.172	0.000	0.190	0.080	11011	1.00	38407.6507	44044
1412	3.392	0.165	0.000	0.208	0.108	11011	1.28	38407.7597	44044
1412	3.395	0.178	0.000	0.187	0.112	11011	1.01	38409.6625	44044
1412	3.373	0.185	0.000	0.184	0.117	11011	1.20	38409.7403	44044
1412	3.324	0.172	0.000	0.167	0.113	11011	1.96	38409.8160	44044
1412	3.396	0.169	0.000	0.181	0.044	11011	1.03	38413.5937	44044
1412	3.381	0.151	0.000	0.220	0.062	11011	1.07	38414.5694	44044
1412	3.376	0.158	0.000	0.222	0.104	11011	1.00	38414.6389	44044
1412	3.458	0.168	0.000	0.201	0.082	11011	1.00	38437.5764	22022
1412	3.450	0.180	0.000	0.187	0.104	11011	1.06	38437.6229	22022
1412	3.410	0.177	0.000	0.165	0.097	11011	1.38	38437.6931	22022
1412	3.347	0.161	0.000	0.133	0.078	11011	1.96	38437.7396	22022
1412	3.382	0.155	0.000	0.182	0.077	11011	1.00	38438.5743	44044
1412	3.435	0.143	0.000	0.222	0.104	11011	1.15	38438.6493	44044
1412	3.446	0.161	0.000	0.202	0.080	11011	2.01	38438.7389	44044
1412	3.366	0.162	0.000	0.162	0.074	11011	1.01	38440.5757	44044
1412	3.378	0.179	0.000	0.179	0.072	11011	1.90	38440.7278	44044
1412	3.393	0.139	0.000	0.197	0.072	11011	1.01	38441.5764	44044
1412	3.377	0.184	0.000	0.168	0.081	11011	2.02	38441.7312	44044
1412	3.468	0.150	0.000	0.214	0.078	11011	1.05	38442.6007	44044
1412	3.479	0.191	0.000	0.196	0.106	11011	1.54	38442.6965	44044
1412	3.414	0.175	0.000	0.171	0.106	11011	1.49	38443.6889	44044
1414	5.006	0.175	0.000	0.209	0.122	11011	1.12	38352.8736	44044
1414	4.992	0.195	0.000	0.191	0.100	11011	1.02	38353.8250	44044
1414	5.013	0.198	0.000	0.192	0.073	11011	1.20	38354.6986	44044
1414	5.020	0.192	0.000	0.196	0.041	11011	1.46	38355.6556	44044
1422	5.552	0.290	0.000	0.333	0.208	11011	1.16	38352.8868	44044
1422	5.544	0.296	0.000	0.324	0.199	11011	1.14	38353.8806	44044
1422	5.541	0.330	0.000	0.303	0.158	11011	1.15	38354.7076	44044
1422	5.492	0.209	0.000	0.240	0.115	11011	1.07	38438.6250	44044
1427	4.777	0.149	0.000	0.180	0.099	11011	1.20	38352.8972	44044
1427	4.750	0.139	0.000	0.170	0.094	11011	1.18	38353.8896	44044
1427	4.749	0.178	0.000	0.164	0.058	11011	1.05	38354.7444	44044
1427	4.775	0.165	0.000	0.148	0.039	11011	1.41	38355.6604	44044
1428	5.476	0.219	0.000	0.253	0.143	11011	1.22	38352.9014	44044
1428	5.442	0.230	0.000	0.225	0.142	11011	1.24	38353.9021	44044
1428	5.450	0.257	0.000	0.214	0.093	11011	1.03	38354.7528	44044
1428	5.514	0.198	0.000	0.265	0.107	11011	1.08	38438.6292	44044
1430	5.416	0.208	0.000	0.281	0.157	11011	1.26	38352.9062	44044
1430	5.381	0.249	0.000	0.252	0.167	11011	1.27	38353.9062	44044
1430	5.383	0.261	0.000	0.241	0.121	11011	1.03	38354.7569	44044
1430	5.437	0.228	0.000	0.262	0.142	11011	1.10	38438.6333	44044
1432	6.000	0.301	0.000	0.345	0.208	11011	1.63	38352.9528	44044
1432	5.979	0.319	0.000	0.319	0.222	11011	1.35	38353.9201	44044
1432	6.005	0.339	0.000	0.325	0.165	11011	1.02	38354.7674	44044
1432	6.032	0.293	0.000	0.332	0.201	11011	1.10	38438.6375	44044
1436	6.338	0.400	0.000	0.384	0.254	11011	1.82	38352.9576	44044
1436	6.339	0.412	0.000	0.375	0.270	11011	1.46	38353.9250	44044
1436	6.360	0.432	0.000	0.380	0.230	11011	1.04	38354.7715	44044
1436	6.384	0.401	0.000	0.389	0.240	11011	1.15	38438.6417	44044
1444	4.600	0.240	0.000	0.219	0.171	11011	1.73	38353.9576	44044
1444	4.625	0.252	0.000	0.217	0.132	11011	1.01	38354.7806	44044
1444	4.641	0.253	0.000	0.228	0.072	11011	1.34	38355.6736	44044
1444	4.687	0.212	0.000	0.257	0.130	11011	1.17	38438.6576	44044
1448	5.752	0.093	0.000	0.102	0.051	11011	1.58	38825.6472	44044
1448	5.768	0.074	0.000	0.131	0.030	11011	1.47	38827.6312	44044
1453	4.535	1.004	0.000	0.753	0.538	11011	1.54	38374.7660	22022
1453	4.534	1.003	0.000	0.751	0.559	11011	1.52	38430.5847	44044
1453	4.534	1.021	0.000	0.767	0.548	11011	1.52	38432.5896	44044
1453	4.497	1.013	0.000	0.741	0.538	11011	1.83	38449.4208	44044
1459	5.972	0.380	0.000	0.363	0.252	11011	1.82	38353.9701	44044
1459	5.997	0.386	0.000	0.354	0.206	11011	1.00	38354.8028	44044
1459	6.014	0.397	0.000	0.365	0.172	11011	1.05	38355.7444	44044
1459	6.060	0.336	0.000	0.393	0.225	11011	1.19	38438.6660	44044

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1464	3.826	0.960	0.000	0.755	0.489	11011	1.57	38342.8569	44044
1464	3.886	0.998	0.000	0.755	0.495	11011	1.82	38376.6583	22022
1464	3.818	0.979	0.000	0.729	0.488	11011	1.89	38449.6257	44044
1472	5.782	0.301	0.000	0.297	0.172	11011	1.01	38354.8174	44044
1472	5.786	0.307	0.000	0.300	0.125	11011	1.03	38355.7597	44044
1472	5.843	0.274	0.000	0.325	0.177	11011	1.23	38438.6736	44044
1472	5.790	0.305	0.000	0.330	0.146	11011	1.64	38441.7146	44044
1473	4.272	0.119	0.000	0.133	0.070	11011	1.02	38354.8215	44044
1473	4.268	0.143	0.000	0.115	0.042	11011	1.03	38355.7646	44044
1473	4.333	0.098	0.000	0.138	0.070	11011	1.27	38438.6785	44044
1473	4.275	0.130	0.000	0.139	0.059	11011	1.73	38441.7187	44044
1479	4.648	0.143	0.000	0.166	0.088	11011	1.09	38354.8681	44044
1479	4.657	0.165	0.000	0.144	0.065	11011	1.00	38355.7847	44044
1480	5.355	0.256	0.000	0.229	0.119	11011	1.10	38354.8639	44044
1480	5.388	0.257	0.000	0.225	0.113	11011	1.03	38355.7792	44044
1480	5.422	0.249	0.000	0.246	0.129	11011	1.32	38438.6826	44044
1480	5.386	0.245	0.000	0.242	0.116	11011	1.84	38441.7229	44044
1502	4.479	0.329	0.000	0.342	0.208	11011	2.10	38342.8625	44044
1502	4.552	0.379	0.000	0.363	0.216	11011	2.48	38376.6625	22022
1502	4.430	0.335	0.000	0.309	0.201	11011	2.64	38449.6319	44044
1507	5.382	0.234	0.000	0.244	0.145	11011	1.11	38354.8729	44044
1507	5.373	0.274	0.000	0.220	0.133	11011	1.01	38355.8035	44044
1507	5.438	0.239	0.000	0.265	0.131	11011	1.36	38438.6958	44044
1507	5.479	0.253	0.000	0.274	0.132	11011	1.17	38442.6514	44044
1517	6.028	1.223	0.000	0.888	0.612	11011	1.70	38838.6397	44044
1517	6.024	1.234	0.000	0.876	0.641	11011	1.68	38842.6274	44044
1519	5.330	0.168	0.000	0.172	0.089	11011	1.11	38354.8771	44044
1519	5.358	0.172	0.000	0.177	0.079	11011	1.01	38355.8076	44044
1519	5.391	0.168	0.000	0.182	0.081	11011	1.38	38438.6993	44044
1519	5.451	0.170	0.000	0.204	0.076	11011	1.18	38442.6556	44044
1547	5.072	0.202	0.000	0.206	0.130	11011	1.20	38354.9076	44044
1547	5.071	0.221	0.000	0.196	0.141	11011	1.07	38355.8687	44044
1547	5.129	0.183	0.000	0.224	0.114	11011	1.46	38438.7167	44044
1547	5.187	0.213	0.000	0.249	0.108	11011	1.23	38442.6722	44044
1551	4.752	1.404	0.000	1.077	0.773	11011	1.38	38820.6615	22022
1551	4.786	1.440	0.000	1.067	0.772	11011	1.41	38825.6515	44044
1551	4.880	1.406	0.000	1.129	0.778	11011	1.41	38827.6458	44044
1566	6.347	0.286	0.000	0.269	0.182	11011	1.10	38355.8785	44044
1566	6.349	0.289	0.000	0.274	0.172	11011	1.80	38438.7472	44044
1566	6.326	0.277	0.000	0.252	0.159	11011	1.25	38440.6847	44044
1566	6.389	0.276	0.000	0.287	0.159	11011	1.32	38441.6924	44044
1566	6.438	0.273	0.000	0.308	0.154	11011	1.29	38442.6847	44044
1620	4.595	0.141	0.000	0.151	0.089	11011	1.23	38354.9208	44044
1620	4.612	0.159	0.000	0.141	0.106	11011	1.10	38355.8875	44044
1620	4.620	0.124	0.000	0.151	0.070	11011	1.91	38438.7611	44044
1620	4.654	0.155	0.000	0.157	0.086	11011	1.24	38443.6799	44044
1648	6.093	3.409	0.000	2.261	1.461	11011	1.05	38773.6690	44044
1648	6.168	3.366	0.000	2.315	1.492	11011	1.12	38774.7269	44044
1648	6.239	3.503	0.000	2.343	1.503	11011	1.29	38790.7232	44044
1648	6.194	3.463	0.000	2.349	1.478	11011	1.11	38791.6765	44044
1648	6.205	3.534	0.000	2.331	1.507	11011	2.35	38842.6599	44044
1652	4.568	1.186	0.000	0.943	0.635	11011	1.73	38342.8667	44044
1652	4.576	1.187	0.000	0.893	0.639	11011	1.73	38368.7951	22022
1652	4.508	1.196	0.000	0.901	0.653	11011	1.84	38376.8076	22022
1663	4.784	1.414	0.000	1.110	0.808	11011	3.01	38099.5715	44044
1663	5.122	1.487	0.000	1.264	0.918	11011	2.77	38342.8736	44044
1663	5.108	1.489	0.000	1.210	1.011	11011	2.97	38348.8847	44044
1670	5.897	0.294	0.000	0.243	0.169	11011	1.23	38354.9250	44044
1670	5.906	0.301	0.000	0.255	0.175	11011	1.11	38355.8924	44044
1670	5.891	0.319	0.000	0.260	0.081	11011	1.13	38388.6472	44044
1670	5.990	0.373	0.000	0.232	0.155	11011	1.27	38389.8375	44044
1670	5.913	0.288	0.000	0.249	0.133	11011	1.36	38437.7215	22022
1672	5.393	0.256	0.000	0.208	0.123	11011	1.28	38354.9292	44044
1672	5.394	0.272	0.000	0.186	0.139	11011	1.17	38355.9035	44044
1672	5.402	0.227	0.000	0.179	0.122	11011	1.25	38440.6889	44044
1672	5.449	0.241	0.000	0.224	0.094	11011	1.31	38441.6965	44044
1729	4.680	0.594	0.000	0.541	0.304	11011	1.07	38391.7347	44044
1743	4.708	0.939	0.000	0.706	0.499	11011	1.83	38099.5799	44044
1743	4.837	0.976	0.000	0.780	0.547	11011	1.71	38342.8799	44044
1743	4.854	1.066	0.000	0.731	0.593	11011	1.70	38348.8444	44044
1781	5.664	-0.201	0.000	-0.078	-0.179	11011	1.10	38350.7951	44044
1781	5.681	-0.216	0.000	-0.067	-0.159	11011	1.24	38350.9306	44044
1781	5.693	-0.194	0.000	-0.082	-0.195	11011	3.34	38351.6403	44044
1781	5.671	-0.227	0.000	-0.060	-0.168	11011	1.06	38351.8437	44044
1781	5.726	-0.223	0.000	-0.068	-0.213	11011	3.17	38352.6403	44044
1781	5.689	-0.228	0.000	-0.072	-0.172	11011	1.06	38352.8451	44044
1781	5.667	-0.203	0.000	-0.070	-0.150	11011	1.67	38352.9771	44044
1781	5.720	-0.215	0.000	-0.050	-0.178	11011	2.72	38353.6472	44044
1781	5.656	-0.182	0.000	-0.079	-0.191	11011	1.41	38353.7181	44044
1781	5.661	-0.216	0.000	-0.092	-0.179	11011	1.06	38353.8396	44044
1781	5.634	-0.199	0.000	-0.077	-0.092	11011	2.22	38354.0049	44044
1781	5.681	-0.201	0.000	-0.083	-0.180	11011	1.06	38354.8368	44044
1781	5.653	-0.198	0.000	-0.096	-0.151	11011	1.42	38354.9472	44044
1781	5.681	-0.204	0.000	-0.087	-0.161	11011	1.06	38355.8424	44044
1781	5.626	-0.228	0.000	-0.110	-0.165	11011	1.39	38355.9410	44044
1781	5.772	-0.172	0.000	-0.061	-0.206	11011	1.17	38384.6792	22022
1781	5.641	-0.204	0.000	-0.114	-0.175	11011	1.07	38384.7750	22022
1781	5.638	-0.200	0.000	-0.097	-0.202	11011	1.36	38384.8569	22022
1781	5.645	-0.202	0.000	-0.114	-0.170	11011	1.06	38385.7347	22022
1781	5.714	-0.201	0.000	-0.083	-0.148	11011	2.78	38386.5556	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1781	5.648	-0.221	0.000	-0.070	-0.188	11011	1.06	38386.7632	44044
1781	5.715	-0.201	0.000	-0.091	-0.201	11011	2.45	38388.5590	44044
1781	5.670	-0.183	0.000	-0.084	-0.215	11011	1.06	38388.7319	44044
1781	5.659	-0.241	0.000	-0.065	-0.171	11011	1.25	38388.8278	44044
1781	5.626	-0.204	0.000	-0.123	-0.198	11011	2.10	38389.5694	44044
1781	5.659	-0.195	0.000	-0.089	-0.190	11011	1.11	38389.6847	44044
1781	5.691	-0.190	0.000	-0.078	-0.189	11011	1.06	38389.7528	44044
1781	5.694	-0.200	0.000	-0.101	-0.130	11011	1.77	38389.8833	44044
1781	5.691	-0.177	0.000	-0.089	-0.120	11011	2.29	38389.9090	44044
1781	5.751	-0.224	0.000	-0.054	-0.196	11011	1.36	38390.8417	44044
1781	5.717	-0.282	0.000	-0.122	-0.182	11011	3.45	38390.9333	44044
1781	5.621	-0.185	0.000	-0.105	-0.231	11011	2.13	38391.5625	44044
1781	5.651	-0.193	0.000	-0.075	-0.216	11011	1.40	38391.6160	44044
1781	5.652	-0.192	0.000	-0.065	-0.215	11011	1.07	38391.7090	44044
1781	5.681	-0.219	0.000	-0.083	-0.193	11011	1.70	38407.5431	44044
1781	5.667	-0.189	0.000	-0.090	-0.183	11011	1.08	38407.7181	44044
1781	5.740	-0.215	0.000	-0.061	-0.181	11011	1.43	38407.8042	44044
1781	5.709	-0.206	0.000	-0.039	-0.177	11011	1.06	38408.6799	22022
1781	5.672	-0.207	0.000	-0.091	-0.199	11011	1.44	38409.5618	44044
1781	5.691	-0.185	0.000	-0.081	-0.181	11011	1.07	38409.6528	44044
1781	5.699	-0.214	0.000	-0.080	-0.227	11011	1.29	38413.5722	44044
1781	5.695	-0.208	0.000	-0.077	-0.232	11011	1.16	38413.6021	44044
1781	5.689	-0.220	0.000	-0.079	-0.215	11011	1.41	38413.7847	44044
1781	5.624	-0.188	0.000	-0.065	-0.184	11011	1.38	38414.5556	44044
1781	5.681	-0.220	0.000	-0.044	-0.157	11011	1.06	38414.6597	44044
1781	5.706	-0.197	0.000	-0.075	-0.221	11011	1.13	38437.5465	22022
1781	5.722	-0.174	0.000	-0.079	-0.186	11011	1.06	38437.6153	22022
1781	5.666	-0.208	0.000	-0.104	-0.209	11011	1.86	38437.7583	22022
1781	5.717	-0.221	0.000	-0.073	-0.202	11011	1.06	38438.6208	44044
1781	5.706	-0.195	0.000	-0.084	-0.222	11011	2.51	38438.7826	44044
1781	5.701	-0.214	0.000	-0.079	-0.239	11011	1.12	38439.5458	44044
1781	5.744	-0.179	0.000	-0.047	-0.199	11011	1.12	38439.6521	44044
1781	5.709	-0.212	0.000	-0.072	-0.193	11011	2.42	38439.7771	44044
1781	5.643	-0.210	0.000	-0.102	-0.240	11011	1.08	38440.5632	44044
1781	5.673	-0.193	0.000	-0.115	-0.196	11011	1.95	38440.7549	44044
1781	5.670	-0.232	0.000	-0.066	-0.207	11011	1.07	38441.5639	44044
1781	5.649	-0.212	0.000	-0.111	-0.175	11011	2.42	38441.7715	44044
1781	5.735	-0.216	0.000	-0.074	-0.203	11011	1.06	38442.5785	44044
1781	5.740	-0.185	0.000	-0.075	-0.212	11011	1.52	38442.7187	44044
1781	5.780	-0.208	0.000	-0.071	-0.225	11011	1.07	38443.5618	44044
1781	5.708	-0.194	0.000	-0.077	-0.199	11011	3.02	38443.7812	44044
1781	5.689	-0.219	0.000	-0.031	-0.246	11011	1.07	38444.5646	44044
1781	5.691	-0.221	0.000	-0.077	-0.186	11011	1.97	38444.7451	44044
1781	5.737	-0.172	0.000	-0.077	-0.194	11011	1.16	38445.6500	44044
1781	5.637	-0.212	0.000	-0.083	-0.178	11011	3.09	38445.7771	44044
1781	5.704	-0.211	0.000	-0.071	-0.175	11011	1.17	38446.6493	44044
1781	5.659	-0.216	0.000	-0.087	-0.141	11011	2.23	38446.7514	44044
1781	5.686	-0.220	0.000	-0.070	-0.182	11011	1.36	38447.6861	44044
1781	5.625	-0.187	0.000	-0.162	-0.182	11011	3.93	38447.7840	44044
1781	5.765	-0.183	0.000	-0.090	-0.201	11011	1.07	38451.5889	44044
1781	5.781	-0.208	0.000	-0.086	-0.193	11011	1.43	38451.6833	44044
1781	5.719	-0.303	-0.999	0.000	0.000	11100	1.19	38765.6292	22200
1781	5.728	-0.266	-0.939	0.000	0.000	11100	1.11	38765.7535	22200
1781	5.803	-0.288	-0.965	0.000	0.000	11100	1.48	38765.8292	22200
1781	5.554	-0.193	-0.933	0.000	0.000	11100	1.83	38766.5514	44400
1781	5.702	-0.211	-0.891	0.000	0.000	11100	1.14	38766.6437	44400
1781	5.422	-0.231	-0.880	0.000	0.000	11100	1.12	38766.7562	44400
1781	5.645	-0.240	-0.866	0.000	0.000	11100	2.92	38766.8944	44400
1781	5.712	-0.206	-0.908	0.000	0.000	11100	1.12	38798.5639	44400
1781	5.691	-0.237	-0.876	0.000	0.000	11100	1.13	38798.6736	44400
1781	5.666	-0.213	-0.851	0.000	0.000	11100	2.62	38798.8000	44400
1781	5.738	-0.223	-0.918	0.000	0.000	11100	1.12	38799.5576	44400
1781	5.714	-0.204	-0.912	0.000	0.000	11100	1.18	38799.6861	44400
1855	4.546	-0.242	0.000	-0.173	-0.272	11011	1.13	38099.5632	44044
1855	4.714	-0.210	0.000	-0.089	-0.238	11011	1.44	38099.6424	44044
1855	4.620	-0.270	0.000	-0.105	-0.261	11011	4.15	38103.7264	44044
1855	4.636	-0.261	0.000	-0.121	-0.270	11011	1.23	38107.5812	44044
1855	4.722	-0.246	0.000	-0.150	-0.232	11011	1.23	38113.5660	44044
1855	4.685	-0.249	0.000	-0.099	-0.255	11011	1.54	38114.6132	44044
1855	4.762	-0.286	0.000	-0.148	-0.244	11011	1.65	38115.6208	22022
1855	4.585	-0.271	0.000	-0.190	-0.265	11011	1.31	38121.5604	44044
1855	4.621	-0.279	0.000	-0.135	-0.270	11011	1.55	38124.5861	44044
1855	4.575	-0.219	0.000	-0.123	-0.282	11011	2.00	38700.7376	44044
1855	4.596	-0.248	0.000	-0.131	-0.241	11011	1.15	38700.8531	44044
1855	4.567	-0.310	0.000	-0.104	-0.240	11011	1.22	38700.9537	44044
1855	4.599	-0.185	0.000	-0.130	-0.288	11011	3.33	38701.6961	44044
1855	4.613	-0.266	0.000	-0.111	-0.234	11011	1.40	38701.7865	44044
1855	4.615	-0.311	0.000	-0.080	-0.224	11011	1.19	38701.9408	44044
1855	4.587	-0.265	0.000	-0.105	-0.247	11011	1.97	38702.7336	44044
1855	4.602	-0.237	0.000	-0.117	-0.284	11011	1.43	38705.7708	22022
1855	4.605	-0.267	0.000	-0.103	-0.217	11011	1.12	38705.8831	22022
1855	4.587	-0.173	0.000	-0.184	-0.267	11011	2.03	38707.7166	44044
1855	4.601	-0.289	0.000	-0.112	-0.244	11011	1.13	38707.8964	44044
1855	4.619	-0.271	0.000	-0.116	-0.246	11011	1.14	38734.8304	44044
1855	4.632	-0.254	0.000	-0.094	-0.252	11011	2.41	38734.9654	44044
1855	4.537	-0.190	0.000	-0.174	-0.283	11011	2.50	38736.6190	44044
1855	4.634	-0.271	0.000	-0.067	-0.245	11011	1.14	38736.7610	44044
1855	4.622	-0.282	0.000	-0.104	-0.225	11011	1.14	38736.8232	44044
1855	4.580	-0.230	0.000	-0.110	-0.297	11011	2.55	38742.6011	44044
1855	4.617	-0.280	0.000	-0.080	-0.234	11011	1.12	38742.7753	44044
1855	4.598	-0.205	0.000	-0.119	-0.237	11011	3.38	38742.9661	44044
1855	4.628	-0.260	0.000	-0.099	-0.306	11011	1.46	38760.6164	44044
1855	4.625	-0.290	0.000	-0.081	-0.243	11011	1.12	38760.7449	44044
1855	4.587	-0.252	0.000	-0.089	-0.290	11011	1.51	38761.6081	44044
1855	4.624	-0.260	0.000	-0.111	-0.240	11011	1.14	38762.6853	44044
1855	4.637	-0.273	0.000	-0.092	-0.279	11011	1.12	38763.7190	22022
1855	4.548	-0.239	0.000	-0.098	-0.283	11011	1.32	38764.8029	44044
1855	4.626	-0.256	0.000	-0.106	-0.245	11011	1.12	38773.6787	44044
1855	4.587	-0.261	0.000	-0.111	-0.265	11011	1.34	38773.7819	44044
1855	4.605	-0.289	0.000	-0.112	-0.243	11011	1.64	38773.8174	44044
1855	4.636	-0.266	0.000	-0.098	-0.224	11011	1.16	38774.7307	44044
1855	4.634	-0.264	0.000	-0.135	-0.225	11011	1.77	38774.8250	44044
1855	4.674	-0.238	0.000	-0.095	-0.257	11011	1.12	38790.6571	44044
1855	4.616	-0.261	0.000	-0.112	-0.241	11011	1.70	38790.7765	44044
1855	4.664	-0.247	0.000	-0.076	-0.265	11011	1.12	38791.6404	44044
1855	4.586	-0.277	0.000	-0.113	-0.228	11011	1.45	38791.7479	44044
1855	4.594	-0.256	0.000	-0.107	-0.242	11011	1.12	38793.6529	44044
1855	4.620	-0.251	0.000	-0.140	-0.244	11011	1.12	38814.5703	22022
1855	4.589	-0.249	0.000	-0.152	-0.242	11011	1.38	38814.6751	22022

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B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
1855	4.649	-0.241	0.000	-0.133	-0.249	11011	1.41	38815.6774	44044
1855	4.622	-0.264	0.000	-0.103	-0.249	11011	1.60	38816.6967	22022
1855	4.569	-0.267	0.000	-0.114	-0.252	11011	1.12	38817.5807	22022
1855	4.624	-0.234	0.000	-0.147	-0.231	11011	1.40	38817.6708	22022
1855	4.663	-0.254	0.000	-0.121	-0.243	11011	1.18	38818.6175	44044
1855	4.621	-0.251	0.000	-0.108	-0.267	11011	1.50	38818.6814	44044
1855	4.647	-0.223	0.000	-0.109	-0.256	11011	1.19	38819.6189	22022
1855	4.611	-0.252	0.000	-0.127	-0.245	11011	1.43	38819.6700	22022
1855	4.653	-0.237	0.000	-0.137	-0.247	11011	1.86	38819.7085	22022
1855	4.592	-0.251	0.000	-0.133	-0.242	11011	1.34	38820.6522	22022
1855	4.637	-0.261	0.000	-0.107	-0.265	11011	1.94	38822.7050	44044
1855	4.581	-0.271	0.000	-0.109	-0.277	11011	1.79	38823.6932	44044
1855	4.671	-0.235	0.000	-0.110	-0.238	11011	1.75	38824.6876	44044
1855	4.619	-0.237	0.000	-0.113	-0.284	11011	1.12	38825.5649	44044
1855	4.660	-0.240	0.000	-0.106	-0.232	11011	1.67	38825.6781	44044
1855	4.693	-0.223	0.000	-0.094	-0.265	11011	1.12	38827.5551	44044
1855	4.690	-0.266	0.000	-0.064	-0.273	11011	1.96	38827.6924	44044
1855	4.609	-0.289	0.000	-0.151	-0.241	11011	1.76	38836.6550	44044
1855	4.652	-0.262	0.000	-0.098	-0.250	11011	1.50	38837.6293	44044
1855	4.592	-0.227	0.000	-0.110	-0.248	11011	1.94	38838.6612	44044
1855	4.597	-0.297	0.000	-0.117	-0.256	11011	2.21	38841.6661	44044
1855	4.630	-0.271	0.000	-0.095	-0.241	11011	2.68	38842.6786	44044
1855	4.530	-0.309	-1.109	0.000	0.000	11100	1.23	38844.5628	44400
1855	4.583	-0.270	-1.061	0.000	0.000	11100	1.21	38845.5547	44400
1862	3.743	1.105	0.000	0.797	0.540	11011	1.84	38099.5847	44044
1862	3.910	1.134	0.000	0.843	0.596	11011	1.73	38342.8854	44044
1862	3.901	1.156	0.000	0.817	0.669	11011	1.79	38348.8889	44044
1872	5.338	0.046	0.000	0.065	0.021	11011	1.39	38819.6828	22022
1872	5.331	0.066	0.000	0.067	0.049	11011	1.32	38825.6562	44044
1872	5.404	0.053	0.000	0.114	0.032	11011	1.31	38827.6494	44044
1905	5.503	0.246	0.000	0.196	0.137	11011	1.07	38355.8986	44044
1905	5.474	0.233	0.000	0.208	0.131	11011	1.23	38409.7937	44044
1905	5.540	0.233	0.000	0.210	0.108	11011	1.28	38437.7257	22022
1905	5.392	0.188	0.000	0.236	0.116	11011	1.70	38438.7687	44044
1938	6.058	0.034	0.000	0.119	0.059	11011	1.16	38814.6699	22022
1938	6.033	0.057	0.000	0.088	0.062	11011	1.18	38815.6731	44044
1938	6.011	0.018	0.000	0.119	0.050	11011	1.28	38816.6919	22022
1938	6.041	0.029	0.000	0.144	0.012	11011	1.21	38817.6744	22022
1938	6.101	0.041	0.000	0.113	0.023	11011	1.07	38818.6224	44044
1938	6.083	0.070	0.000	0.094	0.025	11011	1.08	38818.6314	44044
1938	6.063	0.047	0.000	0.113	0.031	11011	1.12	38818.6465	44044
1938	6.033	0.067	0.000	0.082	0.031	11011	1.30	38818.6903	44044
1938	6.075	0.018	0.000	0.129	0.039	11011	1.05	38819.6126	22022
1938	6.057	0.005	0.000	0.106	0.059	11011	1.30	38819.6869	22022
1938	5.992	0.049	0.000	0.081	0.062	11011	1.23	38820.6703	22022
1938	6.118	0.070	0.000	0.145	0.036	11011	1.36	38824.6835	44044
1938	6.103	0.035	0.000	0.140	0.045	11011	1.26	38827.6583	44044
1938	6.063	0.058	0.000	0.108	0.054	11011	1.17	38836.6119	44044
1938	6.037	0.053	0.000	0.114	0.025	11011	1.16	38837.6064	44044
1938	6.020	-0.002	-0.234	0.000	0.000	11100	1.15	38844.5852	44400
1938	6.052	0.044	-0.214	0.000	0.000	11100	1.10	38845.5656	44400
1956	2.518	-0.180	0.000	-0.051	-0.133	11011	1.77	38099.5910	44044
1956	2.669	-0.117	0.000	0.003	-0.098	11011	1.67	38342.8903	44044
1956	2.574	-0.151	0.000	-0.017	-0.071	11011	1.66	38368.8000	22022
1971	5.509	0.035	0.000	0.089	-0.003	11011	1.43	38819.6911	22022
1971	5.430	0.020	0.000	0.050	0.013	11011	1.33	38820.6660	22022
1971	5.552	0.028	0.000	0.110	-0.003	11011	1.39	38827.6619	44044
1977	6.888	2.992	0.000	2.197	1.480	11011	1.01	38773.6736	44044
1977	6.930	3.015	0.000	2.179	1.556	11011	1.08	38774.7603	44044
1977	7.037	3.074	0.000	2.235	1.562	11011	1.11	38790.7286	44044
1977	6.976	3.038	0.000	2.218	1.504	11011	1.02	38791.6808	44044
1977	7.090	3.149	0.000	2.244	1.573	11011	1.61	38842.6640	44044
2040	2.978	1.122	0.000	0.816	0.537	11011	1.84	38099.5972	44044
2040	3.157	1.153	0.000	0.907	0.572	11011	1.74	38342.8944	44044
2040	3.120	1.200	0.000	0.832	0.621	11011	1.73	38368.8174	22022
2056	4.780	-0.181	0.000	-0.089	-0.179	11011	1.78	38099.6042	44044
2056	4.908	-0.144	0.000	-0.058	-0.150	11011	1.66	38342.9007	44044
2056	4.843	-0.179	0.000	-0.062	-0.138	11011	1.67	38376.8125	22022
2106	4.248	-0.223	0.000	-0.124	-0.185	11011	1.89	38099.6139	44044
2106	4.366	-0.159	0.000	-0.047	-0.153	11011	1.73	38342.9056	44044
2106	4.306	-0.217	0.000	-0.056	-0.150	11011	1.73	38376.8174	22022
2120	4.025	1.145	0.000	0.857	0.578	11011	2.14	38342.9118	44044
2120	3.922	1.136	0.000	0.816	0.592	11011	2.15	38376.8215	22022
2120	3.889	1.154	0.000	0.800	0.580	11011	2.30	38430.7021	44044
2120	3.942	1.154	0.000	0.838	0.624	11011	2.26	38432.5944	44044
2120	3.937	1.165	0.000	0.812	0.592	11011	2.14	38433.6187	44044
2120	3.931	1.169	0.000	0.793	0.571	11011	2.22	38449.6375	44044
2120	4.049	1.113	0.000	0.810	0.567	11011	2.19	38450.6285	44044
2120	4.044	1.110	0.000	0.803	0.566	11011	2.18	38451.6243	44044
2124	4.097	0.176	0.000	0.116	0.129	11011	1.07	38355.9097	44044
2124	4.102	0.142	0.000	0.204	0.070	11011	1.02	38391.7389	44044
2124	4.092	0.164	0.000	0.201	0.068	11011	1.04	38407.7500	44044
2124	4.108	0.143	0.000	0.202	0.118	11011	1.19	38409.7979	44044
2124	4.097	0.171	0.000	0.158	0.083	11011	1.23	38437.7306	22022
2124	4.130	0.135	0.000	0.183	0.080	11011	1.60	38438.7736	44044
2228	6.545	0.239	0.000	0.252	0.126	11011	1.31	38819.6953	22022
2228	6.619	0.226	0.000	0.297	0.141	11011	1.28	38827.6661	44044
2228	6.563	0.279	0.000	0.257	0.145	11011	1.20	38836.6168	44044
2230	6.076	0.879	0.000	0.690	0.482	11011	1.23	38819.6994	22022
2230	6.136	0.932	0.000	0.684	0.487	11011	1.21	38827.6750	44044
2230	6.116	0.926	0.000	0.688	0.497	11011	1.10	38836.6210	44044
2256	4.354	0.996	0.000	0.735	0.520	11011	1.72	38376.8257	22022
2256	4.332	0.978	0.000	0.723	0.505	11011	1.80	38430.7069	44044
2256	4.351	1.000	0.000	0.722	0.522	11011	1.71	38431.6639	44044
2256	4.368	0.932	0.000	0.740	0.518	11011	1.77	38432.6181	44044

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B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
2256	4.366	1.016	0.000	0.719	0.521	11011	1.74	38433.6243	44044
2256	4.367	0.998	0.000	0.729	0.485	11011	1.91	38449.6736	44044
2256	4.445	0.997	0.000	0.730	0.516	11011	1.74	38450.6333	44044
2256	4.454	0.981	0.000	0.749	0.476	11011	1.74	38451.6299	44044
2291	5.567	0.199	0.000	0.227	0.087	11011	1.49	38819.7133	22022
2291	5.594	0.195	0.000	0.250	0.092	11011	1.43	38827.6793	44044
2291	5.516	0.229	0.000	0.192	0.102	11011	1.38	38836.6378	44044
2296	3.786	0.865	0.000	0.658	0.474	11011	1.74	38430.7118	44044
2296	3.828	0.876	0.000	0.660	0.494	11011	1.64	38431.6687	44044
2296	3.861	0.911	0.000	0.677	0.482	11011	1.80	38432.5993	44044
2296	3.826	0.891	0.000	0.675	0.477	11011	1.67	38433.6292	44044
2296	3.845	0.894	0.000	0.680	0.443	11011	1.84	38449.6792	44044
2296	3.867	0.877	0.000	0.668	0.475	11011	1.67	38450.6382	44044
2296	3.907	0.873	0.000	0.677	0.459	11011	1.67	38451.6340	44044
2296	3.799	0.889	0.000	0.636	0.455	11011	1.65	38455.5799	44044
2326	-0.844	0.125	0.000	0.210	0.175	11011	3.27	38823.5592	44044
2326	-0.653	0.141	0.000	0.269	0.223	11011	3.37	38824.5446	44044
2361	4.379	-0.229	0.000	-0.061	-0.156	11011	1.83	38376.8854	22022
2361	4.424	-0.179	0.000	-0.072	-0.145	11011	1.70	38430.7160	44044
2361	4.461	-0.172	0.000	-0.091	-0.126	11011	1.61	38431.6729	44044
2361	4.523	-0.156	0.000	-0.054	-0.119	11011	1.73	38432.6090	44044
2361	4.429	-0.149	0.000	-0.041	-0.200	11011	1.63	38433.6340	44044
2361	4.496	-0.182	0.000	-0.052	-0.163	11011	1.81	38449.6840	44044
2361	4.516	-0.171	0.000	-0.080	-0.176	11011	1.64	38450.6431	44044
2361	4.548	-0.149	0.000	-0.058	-0.145	11011	1.64	38451.6389	44044
2361	4.296	-0.159	0.000	-0.100	-0.308	11011	1.62	38455.5840	44044
2405	5.295	2.590	0.000	-1.274	3.984	11000	1.07	38773.7083	44044
2405	5.305	2.623	0.000	1.982	1.438	11011	1.07	38774.7539	44044
2405	5.296	2.621	0.000	1.986	1.423	11011	1.09	38790.7328	44044
2405	5.240	2.627	0.000	1.943	1.404	11011	1.06	38791.6904	44044
2405	5.313	2.520	0.000	1.977	1.467	11011	1.40	38842.6743	44044
2451	3.147	-0.134	0.000	-0.012	-0.067	11011	2.26	38430.7194	44044
2451	3.147	-0.116	0.000	-0.038	-0.043	11011	2.14	38431.6778	44044
2451	3.207	-0.107	0.000	0.031	-0.030	11011	2.44	38432.6042	44044
2451	3.207	-0.100	0.000	0.021	-0.053	11011	2.18	38433.6396	44044
2451	3.250	-0.131	0.000	0.008	-0.111	11011	2.18	38450.6479	44044
2451	3.285	-0.122	0.000	0.038	-0.099	11011	2.18	38451.6437	44044
2451	3.118	-0.120	0.000	-0.042	-0.071	11011	2.15	38455.5896	44044
2538	3.952	-0.231	0.000	-0.121	-0.223	11011	1.64	38099.6208	44044
2538	3.804	-0.228	0.000	-0.065	-0.186	11011	1.67	38430.7236	44044
2538	3.876	-0.224	0.000	-0.065	-0.176	11011	1.60	38431.6826	44044
2591	6.263	2.219	0.000	1.718	1.258	11011	2.08	38773.7370	44044
2591	6.312	2.220	0.000	1.743	1.294	11011	2.08	38774.7459	44044
2591	6.355	2.288	0.000	1.717	1.317	11011	2.09	38790.7133	44044
2591	6.330	2.253	0.000	1.774	1.291	11011	2.08	38791.6984	44044
2591	6.335	2.241	0.000	1.704	1.316	11011	2.15	38842.5932	44044
2608	4.872	1.706	0.000	1.429	1.221	11011	2.77	38430.7292	44044
2608	4.926	1.727	0.000	1.445	1.211	11011	2.62	38431.6875	44044
2608	5.060	1.622	0.000	1.564	1.176	11011	2.65	38450.6535	44044
2608	5.037	1.713	0.000	1.482	1.148	11011	2.64	38451.6486	44044
2608	4.907	1.706	0.000	1.480	1.164	11011	2.67	38455.5951	44044
2618	1.435	-0.216	0.000	-0.087	-0.200	11011	1.57	38430.7340	44044
2618	1.476	-0.212	0.000	-0.082	-0.193	11011	1.49	38431.6924	44044
2618	1.483	-0.192	0.000	-0.092	-0.207	11011	1.58	38432.6354	44044
2618	1.493	-0.225	0.000	-0.100	-0.232	11011	1.51	38450.6590	44044
2618	1.558	-0.189	0.000	-0.073	-0.212	11011	1.51	38451.6542	44044
2618	1.469	-0.194	0.000	-0.106	-0.207	11011	1.51	38455.6007	44044
2646	3.388	1.718	0.000	1.312	1.024	11011	1.54	38430.7382	44044
2646	3.459	1.717	0.000	1.346	1.011	11011	1.46	38431.6979	44044
2646	3.479	1.728	0.000	1.329	1.011	11011	1.49	38450.6646	44044
2646	3.523	1.721	0.000	1.319	0.991	11011	1.48	38451.6590	44044
2646	3.551	1.750	0.000	1.345	1.010	11011	1.49	38453.6556	44044
2646	3.456	1.729	0.000	1.331	1.014	11011	1.47	38455.6049	44044
2693	1.753	0.652	0.000	0.505	0.356	11011	1.50	38430.7431	44044
2693	1.797	0.681	0.000	0.514	0.355	11011	1.42	38431.7035	44044
2693	1.759	0.653	0.000	0.533	0.300	11011	1.52	38432.7431	44044
2693	1.807	0.678	0.000	0.522	0.299	11011	1.45	38450.6694	44044
2693	1.879	0.694	0.000	0.519	0.319	11011	1.44	38451.6632	44044
2693	1.811	0.669	0.000	0.476	0.353	11011	1.42	38455.6222	44044
2702	4.808	-0.246	0.000	-0.085	-0.093	11011	2.06	38430.7472	44044
2702	4.819	-0.189	0.000	-0.090	-0.131	11011	2.03	38431.7403	44044
2702	4.812	-0.172	0.000	-0.037	-0.153	11011	1.93	38433.6701	44044
2702	4.870	-0.180	0.000	-0.081	-0.194	11011	1.97	38450.6743	44044
2702	4.932	-0.223	0.000	-0.039	-0.155	11011	1.96	38451.6681	44044
2702	4.823	-0.172	0.000	-0.100	-0.166	11011	1.91	38455.6285	44044
2740	4.429	0.276	0.000	0.319	0.230	11011	2.65	38430.7528	44044
2740	4.473	0.334	0.000	0.291	0.227	11011	2.61	38431.7458	44044
2740	4.497	0.341	0.000	0.337	0.232	11011	2.59	38433.6444	44044
2740	4.583	0.333	0.000	0.329	0.238	11011	2.46	38434.7132	44044
2740	4.543	0.337	0.000	0.306	0.218	11011	2.57	38452.5951	44044
2740	4.542	0.356	0.000	0.345	0.185	11011	2.75	38453.6993	44044
2740	4.456	0.321	0.000	0.308	0.206	11011	2.54	38455.6708	44044
2745	4.603	-0.175	0.000	-0.002	-0.072	11011	1.54	38431.7556	44044
2745	4.612	-0.152	0.000	0.020	-0.091	11011	1.46	38452.6062	44044
2745	4.599	-0.139	0.000	0.023	-0.098	11011	1.45	38453.6660	44044
2745	4.578	-0.140	0.000	0.007	-0.089	11011	1.42	38455.6382	44044
2748	5.272	1.521	0.000	2.773	2.444	11011	2.44	38431.7500	44044
2748	5.228	1.529	0.000	2.754	2.412	11011	2.29	38433.6639	44044
2748	4.958	1.553	0.000	2.663	2.300	11011	2.35	38452.6007	44044
2748	4.947	1.614	0.000	2.700	2.333	11011	2.28	38453.6611	44044
2748	4.693	1.550	0.000	2.600	2.277	11011	2.24	38455.6333	44044
2749	4.712	-0.134	0.000	-0.036	-0.065	01011	1.65	38417.8111	22022
2749	3.836	-0.140	0.000	0.062	-0.091	11011	1.46	38434.7201	44044

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
2749	3.808	-0.136	0.000	0.030	-0.095	11011	1.44	38452.6229	44044
2749	3.808	-0.105	0.000	0.023	-0.102	11011	1.47	38453.6701	44044
2749	3.770	-0.120	0.000	-0.005	-0.105	11011	1.43	38455.6424	44044
2762	4.740	-0.075	0.000	-0.032	-0.065	11011	2.72	38449.6903	44044
2762	4.806	-0.087	0.000	-0.017	-0.140	11011	2.95	38450.7104	44044
2762	4.873	-0.129	0.000	0.026	-0.056	11011	2.66	38451.6771	44044
2762	4.738	-0.113	0.000	-0.033	-0.051	11011	2.60	38455.6514	44044
2766	4.719	1.589	0.000	1.531	1.261	11011	1.73	38417.8187	22022
2766	4.758	1.590	0.000	1.474	1.254	11011	1.51	38434.7278	44044
2766	4.698	1.601	0.000	1.486	1.248	11011	1.47	38452.6278	44044
2766	4.677	1.615	0.000	1.495	1.249	11011	1.54	38453.6854	44044
2766	4.640	1.606	0.000	1.497	1.247	11011	1.47	38455.6465	44044
2773	2.770	1.631	0.000	1.232	0.922	11011	1.89	38434.7361	44044
2773	2.637	1.633	0.000	1.238	0.907	11011	1.89	38449.6958	44044
2773	2.677	1.640	0.000	1.255	0.882	11011	2.04	38450.7160	44044
2773	2.660	1.621	0.000	1.249	0.919	11011	1.81	38455.6562	44044
2787	4.578	-0.074	0.000	0.094	-0.048	11011	1.89	38449.7000	44044
2787	4.641	-0.094	0.000	0.105	-0.059	11011	2.05	38450.7208	44044
2787	4.647	-0.069	0.000	0.108	-0.063	11011	1.98	38453.7042	44044
2827	2.512	-0.046	0.000	0.046	-0.037	11011	1.78	38417.8243	22022
2827	2.515	-0.068	0.000	0.079	-0.052	11011	1.63	38434.7542	44044
2827	2.492	-0.056	0.000	0.047	-0.068	11011	1.51	38452.6326	44044
2828	4.947	1.012	0.000	0.710	0.492	11011	1.09	38819.7036	22022
2828	5.040	1.012	0.000	0.756	0.488	11011	1.09	38827.6835	44044
2828	5.009	1.006	0.000	0.737	0.517	11011	1.06	38836.6425	44044
2852	4.151	0.320	0.000	0.336	0.193	11011	1.03	38350.9250	44044
2852	4.150	0.305	0.000	0.333	0.169	11011	1.75	38351.7590	44044
2852	4.116	0.333	0.000	0.291	0.207	11011	1.03	38351.9340	44044
2852	4.122	0.314	0.000	0.330	0.190	11011	1.03	38352.9271	44044
2852	4.122	0.301	0.000	0.295	0.221	11011	1.09	38352.9826	44044
2852	4.122	0.318	0.000	0.337	0.140	11011	1.13	38353.8444	44044
2852	4.112	0.337	0.000	0.309	0.188	11011	1.05	38354.9576	44044
2852	4.113	0.323	0.000	0.303	0.212	11011	1.05	38355.9507	44044
2852	4.173	0.297	0.000	0.335	0.196	11011	1.38	38390.9479	44044
2852	4.120	0.281	0.000	0.305	0.190	11011	3.46	38391.5896	44044
2852	4.108	0.293	0.000	0.319	0.160	11011	1.23	38391.7146	44044
2852	4.150	0.300	0.000	0.359	0.165	11011	1.03	38407.7674	44044
2852	4.133	0.310	0.000	0.322	0.211	11011	1.08	38409.8250	44044
2852	4.164	0.307	0.000	0.327	0.173	11011	1.05	38413.7972	44044
2852	4.166	0.328	0.000	0.330	0.190	11011	1.08	38437.7486	22022
2852	4.203	0.297	0.000	0.338	0.171	11011	1.03	38438.6868	44044
2852	4.142	0.277	0.000	0.349	0.185	11011	1.22	38439.7861	44044
2852	4.147	0.336	0.000	0.308	0.204	11011	1.13	38440.7597	44044
2852	4.167	0.293	0.000	0.326	0.179	11011	1.15	38441.7625	44044
2852	4.157	0.304	0.000	0.323	0.201	11011	2.97	38441.8972	44044
2852	4.215	0.323	0.000	0.319	0.170	11011	1.04	38442.7097	44044
2852	4.179	0.334	0.000	0.312	0.176	11011	1.04	38443.7021	44044
2852	4.159	0.292	0.000	0.344	0.199	11011	1.62	38444.8278	44044
2852	4.175	0.318	0.000	0.321	0.184	11011	1.03	38445.6639	44044
2852	4.101	0.281	0.000	0.315	0.193	11011	2.45	38445.8715	44044
2852	4.149	0.307	0.000	0.334	0.183	11011	1.03	38446.6611	44044
2852	4.144	0.282	0.000	0.326	0.198	11011	2.41	38446.8674	44044
2852	4.168	0.283	0.000	0.356	0.178	11011	1.05	38447.6986	44044
2852	4.107	0.303	0.000	0.318	0.240	11011	2.14	38447.8535	44044
2852	4.146	0.328	0.000	0.305	0.205	11011	1.76	38450.8229	44044
2852	4.149	0.267	0.000	0.339	0.195	11011	1.66	38451.8125	44044
2852	4.170	0.310	0.000	0.256	0.246	11011	1.74	38452.7556	44044
2852	4.149	0.373	0.000	0.291	0.169	11011	1.04	38837.6203	44044
2852	4.171	0.308	0.000	0.305	0.200	11011	2.56	38837.8022	44044
2852	4.190	0.291	0.000	0.358	0.157	11011	1.03	38838.5946	44044
2852	4.226	0.303	0.000	0.317	0.206	11011	2.54	38838.7987	44044
2852	4.114	0.326	0.000	0.337	0.198	11011	1.03	38839.5782	44044
2852	4.165	0.311	0.000	0.362	0.202	11011	1.37	38839.7182	44044
2852	4.263	0.310	0.000	0.305	0.255	11011	2.65	38839.7996	44044
2852	4.132	0.298	0.000	0.319	0.157	11011	1.03	38841.5675	44044
2852	4.150	0.304	0.000	0.293	0.178	11011	1.03	38842.5871	44044
2852	4.178	0.301	0.000	0.326	0.197	11011	1.24	38842.6876	44044
2852	4.153	0.283	0.000	0.306	0.215	11011	2.43	38842.7843	44044
2852	4.070	0.267	-0.085	0.000	0.000	11100	1.03	38844.5589	44400
2852	4.380	0.405	0.026	0.000	0.000	11100	2.56	38844.7832	44400
2852	4.137	0.297	-0.022	0.000	0.000	11100	1.03	38845.5510	44400
2852	4.179	0.446	0.021	0.000	0.000	11100	2.47	38845.7773	44400
2878	3.232	1.529	0.000	1.220	0.935	11011	2.32	38431.7604	44044
2878	3.264	1.551	0.000	1.191	0.922	11011	2.38	38434.7597	44044
2878	3.281	1.529	0.000	1.218	0.890	11011	2.15	38452.6375	44044
2881	4.635	0.921	0.000	0.686	0.460	11011	1.68	38431.7653	44044
2881	4.627	0.946	0.000	0.659	0.474	11011	1.65	38449.7083	44044
2922	4.623	-0.127	0.000	-0.036	-0.103	11011	1.60	38431.7694	44044
2922	4.642	-0.123	0.000	-0.034	-0.089	11011	1.60	38433.7632	44044
2922	4.631	-0.103	0.000	-0.027	-0.113	11011	1.57	38449.7132	44044
2922	4.654	-0.097	0.000	-0.043	-0.118	11011	1.68	38450.7326	44044
2937	4.508	-0.097	0.000	-0.022	-0.080	11011	1.87	38431.7743	44044
2937	4.535	-0.092	0.000	-0.033	-0.036	11011	1.87	38433.7681	44044
2937	4.582	-0.112	0.000	0.009	-0.105	11011	1.70	38452.6424	44044
2944	4.708	-0.068	0.000	-0.025	-0.093	11011	1.62	38417.8299	22022
2944	4.671	-0.119	0.000	-0.006	-0.070	11011	1.54	38431.7785	44044
2944	4.690	-0.087	0.000	0.027	-0.086	11011	1.55	38433.7736	44044
2944	4.656	-0.098	0.000	-0.024	-0.043	11011	1.50	38449.7187	44044
2944	4.713	-0.117	0.000	-0.001	-0.081	11011	1.61	38450.7375	44044
2948	3.823	-0.174	0.000	-0.041	-0.137	11011	1.61	38431.7826	44044
2948	3.857	-0.167	0.000	-0.027	-0.170	11011	1.43	38452.6472	44044
2961	4.807	-0.196	0.000	-0.096	-0.144	11011	2.15	38431.7882	44044
2961	4.848	-0.187	0.000	-0.080	-0.157	11011	2.02	38434.7646	44044
2961	4.880	-0.177	0.000	-0.069	-0.168	11011	1.84	38452.6528	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
2967	5.550	1.615	0.000	1.593	1.436	11011	1.13	38819.7335	22022
2967	5.545	1.635	0.000	1.601	1.389	11011	1.06	38827.6882	44044
2967	5.572	1.627	0.000	1.602	1.432	11011	1.03	38836.6467	44044
2993	4.652	1.644	0.000	1.323	0.983	11011	1.51	38431.7931	44044
2993	4.641	1.629	0.000	1.263	0.988	11011	1.61	38434.7694	44044
2993	4.645	1.651	0.000	1.301	0.983	11011	1.57	38453.7090	44044
2996	3.946	0.178	0.000	0.259	0.222	11011	1.67	38433.7799	44044
2996	3.967	0.163	0.000	0.249	0.223	11011	1.65	38434.7743	44044
2996	3.983	0.174	0.000	0.252	0.195	11011	1.61	38453.7132	44044
3017	3.543	1.755	0.000	1.364	1.006	11011	2.11	38433.7847	44044
3017	3.627	1.711	0.000	1.335	1.005	11011	2.08	38434.7785	44044
3017	3.595	1.742	0.000	1.361	0.980	11011	2.01	38453.7181	44044
3034	4.426	-0.059	0.000	0.128	0.007	11011	1.63	38433.7917	44044
3034	4.466	-0.074	0.000	0.145	0.008	11011	1.59	38434.7833	44044
3034	4.487	-0.070	0.000	0.141	-0.031	11011	1.55	38453.7236	44044
3046	4.670	1.023	0.000	0.737	0.567	11011	2.45	38107.6021	44044
3046	4.596	1.053	0.000	0.768	0.590	11011	3.15	38433.8021	44044
3046	4.675	1.074	0.000	0.743	0.588	11011	2.95	38434.7882	44044
3046	4.708	1.054	0.000	0.784	0.546	11011	2.84	38453.7285	44044
3055	4.132	-0.160	0.000	-0.059	-0.176	11011	2.38	38107.6083	44044
3055	3.962	-0.200	0.000	-0.090	-0.154	11011	3.18	38433.8083	44044
3055	4.065	-0.192	0.000	-0.088	-0.153	11011	2.93	38434.7931	44044
3055	4.088	-0.158	0.000	-0.084	-0.187	11011	2.80	38453.7326	44044
3064	5.117	0.617	0.000	0.482	0.334	11011	1.20	38819.6779	22022
3064	5.245	0.608	0.000	0.549	0.375	11011	1.21	38824.6786	44044
3064	5.172	0.602	0.000	0.538	0.357	11011	1.20	38825.6606	44044
3080	3.695	1.048	0.000	0.751	0.582	11011	1.96	38107.6160	44044
3080	3.688	1.037	0.000	0.780	0.566	11011	2.30	38431.7972	44044
3080	3.689	1.040	0.000	0.742	0.594	11011	2.41	38434.7979	44044
3080	3.722	1.047	0.000	0.795	0.539	11011	2.31	38453.7375	44044
3084	4.507	-0.183	0.000	-0.062	-0.172	11011	1.88	38107.6215	44044
3084	4.493	-0.185	0.000	-0.090	-0.159	11011	2.22	38431.8014	44044
3084	4.408	-0.188	0.000	-0.078	-0.125	11011	2.33	38434.8021	44044
3084	4.510	-0.171	0.000	-0.078	-0.191	11011	2.23	38453.7424	44044
3089	4.598	-0.181	0.000	-0.149	-0.174	11011	2.99	38449.7292	44044
3089	4.654	-0.223	0.000	-0.133	-0.210	11011	3.24	38450.7437	44044
3089	4.627	-0.216	0.000	-0.115	-0.231	11011	3.45	38453.7465	44044
3090	4.229	-0.133	0.000	-0.033	-0.103	11011	2.84	38449.7333	44044
3090	4.288	-0.123	0.000	-0.007	-0.123	11011	3.11	38450.7493	44044
3090	4.242	-0.130	0.000	-0.016	-0.141	11011	3.33	38453.7521	44044
3090	4.233	-0.167	0.000	-0.022	-0.124	11011	2.57	38455.6757	44044
3113	4.757	0.138	0.000	0.202	0.143	11011	1.80	38431.8062	44044
3113	4.779	0.150	0.000	0.189	0.168	11011	1.69	38449.7403	44044
3113	4.809	0.141	0.000	0.213	0.165	11011	1.81	38450.7556	44044
3113	4.773	0.142	0.000	0.207	0.137	11011	1.89	38453.7569	44044
3113	4.791	0.167	0.000	0.177	0.167	11011	1.54	38455.6806	44044
3165	2.357	-0.266	0.000	-0.084	-0.225	11011	1.93	38121.5889	44044
3165	2.176	-0.280	0.000	-0.104	-0.175	11011	2.00	38430.7708	44044
3165	2.203	-0.255	0.000	-0.105	-0.226	11011	2.27	38431.8104	44044
3206	4.266	-0.228	0.000	-0.104	-0.201	11011	2.51	38390.8708	44044
3206	4.281	-0.244	0.000	-0.100	-0.183	11011	2.55	38390.8799	44044
3206	4.277	-0.237	0.000	-0.110	-0.180	11011	2.60	38390.8889	44044
3206	4.265	-0.243	0.000	-0.104	-0.194	11011	2.68	38390.8986	44044
3206	4.265	-0.239	0.000	-0.125	-0.172	11011	2.76	38390.9069	44044
3207	1.825	-0.239	0.000	0.046	-0.133	11011	2.52	38114.6299	44044
3207	1.940	-0.234	0.000	-0.002	-0.122	11011	2.48	38121.5951	44044
3207	1.743	-0.274	0.000	-0.045	-0.133	11011	2.52	38124.6028	44044
3207	1.833	-0.249	0.000	-0.041	-0.145	11011	2.50	38390.8674	44044
3207	1.844	-0.254	0.000	-0.012	-0.159	11011	2.52	38390.8750	44044
3207	1.836	-0.259	0.000	-0.028	-0.159	11011	2.57	38390.8840	44044
3207	1.830	-0.267	0.000	-0.040	-0.164	11011	2.64	38390.8937	44044
3207	1.830	-0.269	0.000	-0.039	-0.165	11011	2.72	38390.9028	44044
3225	4.385	1.624	0.000	1.231	0.876	11011	1.96	38114.6347	44044
3225	4.554	1.604	0.000	1.180	0.934	11011	1.92	38121.6000	44044
3225	4.367	1.607	0.000	1.173	0.895	11011	1.95	38124.6069	44044
3226	4.779	0.176	0.000	0.217	0.242	11011	2.11	38107.6271	44044
3226	4.919	0.189	0.000	0.266	0.160	11011	2.16	38113.5826	44044
3226	4.861	0.138	0.000	0.222	0.271	11011	2.14	38121.6049	44044
3237	4.667	-0.104	0.000	0.077	-0.086	11011	1.73	38107.6340	44044
3237	4.747	-0.091	0.000	0.100	-0.101	11011	1.75	38113.5875	44044
3237	4.605	-0.100	0.000	0.085	-0.070	11011	1.75	38121.6097	44044
3243	4.438	1.172	0.000	0.840	0.630	11011	1.96	38107.6396	44044
3243	4.577	1.180	0.000	0.850	0.627	11011	1.97	38113.5931	44044
3243	4.491	1.194	0.000	0.841	0.644	11011	1.99	38121.6153	44044
3249	3.571	1.480	0.000	1.128	0.811	11011	1.33	38099.7646	44044
3249	3.521	1.468	0.000	1.132	0.789	11011	1.10	38103.7035	44044
3249	3.522	1.531	0.000	1.128	0.785	11011	1.87	38103.8021	44044
3249	3.528	1.489	0.000	1.087	0.787	11011	1.05	38107.5868	44044
3249	3.548	1.507	0.000	1.209	0.732	11011	4.10	38107.8451	44044
3249	3.564	1.488	0.000	1.022	0.860	11011	1.31	38112.7257	44044
3249	3.488	1.542	0.000	1.155	0.767	11011	3.67	38112.8264	44044
3249	3.542	1.494	0.000	1.091	0.756	11011	1.05	38113.5715	44044
3249	3.485	1.481	0.000	1.114	0.821	11011	2.31	38113.7944	44044
3249	3.619	1.485	0.000	1.103	0.785	11011	1.02	38114.6187	44044
3249	3.587	1.459	0.000	1.103	0.799	11011	1.02	38115.6271	22022
3249	3.513	1.484	0.000	1.088	0.774	11011	1.02	38121.5674	44044
3249	3.478	1.517	0.000	1.090	0.814	11011	2.84	38121.7875	44044
3249	3.554	1.465	0.000	1.133	0.816	11011	1.02	38124.5910	44044
3249	3.421	1.563	0.000	1.086	0.823	11011	3.48	38124.7910	44044
3249	3.480	1.507	0.000	1.097	0.770	11011	2.17	38342.8056	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3249	3.509	1.492	0.000	1.131	0.769	11011	1.09	38342.9208	44044
3249	3.496	1.495	0.000	1.106	0.796	11011	1.02	38350.9826	44044
3249	3.496	1.479	0.000	1.106	0.744	11011	3.29	38351.7521	44044
3249	3.492	1.501	0.000	1.096	0.782	11011	1.01	38351.9604	44044
3249	3.497	1.465	0.000	1.104	0.718	11011	2.13	38352.7799	44044
3249	3.491	1.477	0.000	1.116	0.754	11011	1.02	38352.9632	44044
3249	3.491	1.473	0.000	1.100	0.729	11011	1.26	38353.8493	44044
3249	3.483	1.510	0.000	1.074	0.765	11011	1.01	38353.9514	44044
3249	3.475	1.467	0.000	1.087	0.764	11011	1.02	38354.9618	44044
3249	3.502	1.473	0.000	1.119	0.759	11011	1.02	38355.9556	44044
3249	3.487	1.496	0.000	1.125	0.771	11011	1.42	38368.7861	22022
3249	3.423	1.476	0.000	1.093	0.781	11011	1.11	38370.8396	22022
3249	3.440	1.478	0.000	1.088	0.761	11011	1.26	38376.7861	22022
3249	3.457	1.458	0.000	1.106	0.807	11011	1.02	38376.9000	22022
3249	3.507	1.476	0.000	1.107	0.742	11011	1.01	38390.8556	44044
3249	3.486	1.464	0.000	1.108	0.784	11011	1.10	38390.9167	44044
3249	3.501	1.484	0.000	1.122	0.779	11011	1.31	38390.9639	44044
3249	3.545	1.506	0.000	1.149	0.800	11011	4.65	38391.6271	44044
3249	3.471	1.459	0.000	1.104	0.728	11011	1.67	38391.6993	44044
3249	3.503	1.512	0.000	1.104	0.730	11011	2.10	38400.6500	44044
3249	3.484	1.476	0.000	1.095	0.724	11011	1.99	38407.6361	44044
3249	3.492	1.497	0.000	1.089	0.750	11011	1.03	38407.7736	44044
3249	3.468	1.453	0.000	1.089	0.705	11011	1.52	38408.6653	22022
3249	3.487	1.495	0.000	1.106	0.724	11011	1.76	38409.6437	44044
3249	3.489	1.495	0.000	1.091	0.808	11011	1.01	38409.8021	44044
3249	3.480	1.463	0.000	1.094	0.746	11011	1.02	38413.7785	44044
3249	3.502	1.499	0.000	1.104	0.758	11011	2.49	38413.9785	44044
3249	3.498	1.489	0.000	1.118	0.782	11011	1.02	38417.7847	22022
3249	3.499	1.484	0.000	1.128	0.789	11011	1.10	38417.8424	22022
3249	3.523	1.511	0.000	1.106	0.744	11011	1.99	38430.5736	44044
3249	3.498	1.487	0.000	1.113	0.772	11011	1.09	38430.6806	44044
3249	3.483	1.475	0.000	1.107	0.812	11011	1.02	38430.7583	44044
3249	3.516	1.497	0.000	1.100	0.772	11011	1.23	38431.6417	44044
3249	3.517	1.480	0.000	1.141	0.791	11011	1.02	38431.7187	44044
3249	3.519	1.508	0.000	1.132	0.801	11011	1.30	38431.8514	44044
3249	3.520	1.496	0.000	1.123	0.751	11011	1.81	38432.5778	44044
3249	3.502	1.473	0.000	1.103	0.782	11011	1.02	38432.7229	44044
3249	3.498	1.494	0.000	1.130	0.779	11011	1.09	38432.7993	44044
3249	3.474	1.490	0.000	1.116	0.823	11011	1.36	38432.8569	44044
3249	3.524	1.498	0.000	1.115	0.770	11011	2.04	38433.5625	44044
3249	3.515	1.491	0.000	1.118	0.794	11011	1.02	38433.7514	44044
3249	3.471	1.495	0.000	1.121	0.806	11011	1.15	38433.8139	44044
3249	2.891	1.508	0.000	1.125	0.752	01011	1.25	38434.6306	44044
3249	3.511	1.496	0.000	1.114	0.772	11011	1.04	38434.6993	44044
3249	3.487	1.485	0.000	1.142	0.787	11011	1.14	38434.8083	44044
3249	3.511	1.490	0.000	1.131	0.730	11011	1.02	38437.7021	22022
3249	3.489	1.511	0.000	1.114	0.777	11011	1.10	38437.7896	22022
3249	3.454	1.452	0.000	1.110	0.788	11011	1.41	38437.8493	22022
3249	3.545	1.470	0.000	1.126	0.762	11011	1.01	38438.7257	44044
3249	3.494	1.477	0.000	1.115	0.754	11011	3.05	38438.9236	44044
3249	3.437	1.446	0.000	1.110	0.761	11011	1.12	38439.7903	44044
3249	3.510	1.492	0.000	1.096	0.784	11011	1.03	38440.7403	44044
3249	3.516	1.471	0.000	1.132	0.750	11011	3.16	38440.9201	44044
3249	3.491	1.491	0.000	1.108	0.768	11011	1.03	38441.7410	44044
3249	3.528	1.486	0.000	1.131	0.777	11011	2.49	38441.9021	44044
3249	3.492	1.478	0.000	1.102	0.726	11011	1.39	38442.5875	44044
3249	3.546	1.485	0.000	1.110	0.769	11011	1.02	38442.7236	44044
3249	3.538	1.495	0.000	1.142	0.769	11011	2.94	38442.9104	44044
3249	3.556	1.494	0.000	1.129	0.795	11011	1.02	38443.7222	44044
3249	3.447	1.472	0.000	1.128	0.775	11011	3.54	38443.9181	44044
3249	3.505	1.502	0.000	1.104	0.767	11011	1.02	38444.7222	44044
3249	3.549	1.463	0.000	1.138	0.808	11011	1.35	38444.8229	44044
3249	3.530	1.487	0.000	1.123	0.764	11011	1.04	38445.6681	44044
3249	3.505	1.452	0.000	1.116	0.816	11011	2.09	38445.8764	44044
3249	3.482	1.490	0.000	1.095	0.739	11011	1.04	38446.6660	44044
3249	3.498	1.476	0.000	1.115	0.793	11011	1.86	38446.8625	44044
3249	3.478	1.502	0.000	1.110	0.748	11011	1.02	38447.7028	44044
3249	3.490	1.458	0.000	1.128	0.784	11011	1.70	38447.8493	44044
3249	3.521	1.510	0.000	1.112	0.766	11011	1.16	38449.6083	44044
3249	3.528	1.485	0.000	1.141	0.825	11011	1.23	38449.7903	44044
3249	3.529	1.483	0.000	1.095	0.774	11011	1.13	38450.6132	44044
3249	3.533	1.466	0.000	1.133	0.770	11011	1.02	38450.6833	44044
3249	3.515	1.492	0.000	1.130	0.819	11011	1.29	38450.7972	44044
3249	3.474	1.493	0.000	1.134	0.804	11011	3.33	38450.8958	44044
3249	3.553	1.503	0.000	1.113	0.736	11011	1.18	38451.5979	44044
3249	3.568	1.488	0.000	1.132	0.762	11011	1.02	38451.6958	44044
3249	3.503	1.477	0.000	1.107	0.799	11011	1.28	38451.7924	44044
3249	3.394	1.448	0.000	1.098	0.778	11011	2.31	38451.8687	44044
3249	3.549	1.502	0.000	1.119	0.750	11011	1.23	38452.5840	44044
3249	3.560	1.497	0.000	1.143	0.782	11011	1.06	38452.7299	44044
3249	3.507	1.471	0.000	1.125	0.793	11011	1.50	38452.8187	44044
3249	3.432	1.461	0.000	1.091	0.817	11011	2.92	38452.8826	44044
3249	3.527	1.488	0.000	1.112	0.769	11011	1.06	38453.6313	44044
3249	3.516	1.507	0.000	1.120	0.785	11011	1.02	38453.6750	44044
3249	3.472	1.474	0.000	1.117	0.792	11011	1.21	38453.7750	44044
3249	3.467	1.462	0.000	1.124	0.775	11011	3.76	38453.8937	44044
3249	3.484	1.487	0.000	1.107	0.755	11011	1.29	38455.5653	44044
3249	3.529	1.501	0.000	1.124	0.777	11011	1.02	38455.6597	44044
3249	3.508	1.501	0.000	1.124	0.785	11011	1.38	38455.7972	44044
3249	3.552	1.475	0.000	1.144	0.795	11011	3.32	38455.8819	44044
3249	3.568	1.520	0.000	1.108	0.787	11011	1.08	38505.5972	44044
3249	3.541	1.482	0.000	1.119	0.797	11011	1.38	38505.6597	44044
3249	3.445	1.430	0.000	1.106	0.759	11011	3.63	38505.7500	44044
3249	3.499	1.468	0.000	1.130	0.779	11011	2.21	38698.8295	44044
3249	3.510	1.449	0.000	1.131	0.800	11011	1.41	38698.8833	44044
3249	3.392	1.396	0.000	1.161	0.739	11011	3.12	38700.7997	44044
3249	3.549	1.522	0.000	1.133	0.790	11011	1.49	38700.8683	44044
3249	3.533	1.514	0.000	1.147	0.794	11011	1.05	38700.9586	44044
3249	3.502	1.402	0.000	1.117	0.797	11011	2.90	38701.8012	44044
3249	3.483	1.525	0.000	1.112	0.769	11011	1.06	38701.9507	44044
3249	3.440	1.425	0.000	1.102	0.798	11011	4.18	38702.7798	44044
3249	3.401	1.530	0.000	1.095	0.759	11011	1.73	38702.8428	44044
3249	3.549	1.521	0.000	1.130	0.796	11011	1.02	38702.9865	44044
3249	3.496	1.502	0.000	1.116	0.764	11011	1.22	38705.8928	22022
3249	3.447	1.485	0.000	1.118	0.776	11011	1.16	38707.9014	44044
3249	3.494	1.521	0.000	1.111	0.803	11011	1.02	38707.9728	44044
3249	3.492	1.482	1.787	0.000	0.000	11100	1.71	38733.7597	44400
3249	3.489	1.493	1.736	0.000	0.000	11100	1.01	38733.9090	44400
3249	3.471	1.510	0.000	1.113	0.760	11011	1.12	38734.8403	44044
3249	3.527	1.459	0.000	1.158	0.780	11011	1.02	38734.9010	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3249	3.534	1.475	0.000	1.135	0.796	11011	1.05	38734.9556	44044
3249	3.562	1.434	0.000	1.157	0.769	11011	1.54	38736.7653	44044
3249	3.483	1.494	0.000	1.125	0.772	11011	1.41	38736.7787	44044
3249	3.474	1.517	0.000	1.102	0.792	11011	1.14	38736.8278	44044
3249	3.478	1.543	0.000	1.071	0.778	11011	1.08	38742.8333	44044
3249	3.503	1.549	0.000	1.071	0.794	11011	1.01	38742.8881	44044
3249	3.479	1.518	0.000	1.076	0.803	11011	1.12	38742.9614	44044
3249	3.500	1.526	0.000	1.124	0.794	11011	1.01	38760.8378	44044
3249	3.473	1.496	0.000	1.117	0.787	11011	1.13	38760.9129	44044
3249	3.507	1.474	0.000	1.105	0.775	11011	1.40	38760.9639	44044
3249	3.541	1.445	0.000	1.127	0.758	11011	1.70	38761.6839	44044
3249	3.527	1.521	0.000	1.106	0.792	11011	1.01	38761.8381	44044
3249	3.475	1.542	0.000	1.111	0.825	11011	1.13	38761.9097	44044
3249	3.457	1.494	0.000	1.086	0.813	11011	1.47	38761.9686	44044
3249	3.492	1.520	0.000	1.116	0.802	11011	1.01	38762.8317	44044
3249	3.546	1.475	0.000	1.117	0.812	11011	1.40	38762.9585	44044
3249	3.527	1.500	0.000	1.109	0.787	11011	1.16	38763.7476	22022
3249	3.480	1.514	0.000	1.117	0.779	11011	1.02	38763.8507	22022
3249	3.450	1.490	0.000	1.113	0.795	11011	1.43	38763.9586	22022
3249	3.435	1.511	0.000	1.095	0.770	11011	1.02	38764.8093	44044
3249	3.425	1.477	0.000	1.086	0.783	11011	1.24	38764.9283	44044
3249	3.430	1.471	0.000	1.080	0.771	11011	1.48	38764.9617	44044
3249	3.556	1.485	1.831	0.000	0.000	11100	2.10	38766.6479	44400
3249	3.543	1.487	1.794	0.000	0.000	11100	1.07	38766.7694	44400
3249	3.528	1.466	1.787	0.000	0.000	11100	1.05	38766.8639	44400
3249	3.481	1.492	0.000	1.162	0.831	11011	1.03	38772.7797	22022
3249	3.481	1.463	0.000	1.121	0.753	11011	1.19	38773.7136	44044
3249	3.489	1.467	0.000	1.165	0.761	11011	1.06	38773.7539	44044
3249	3.526	1.508	0.000	1.143	0.788	11011	1.02	38773.7983	44044
3249	3.502	1.503	0.000	1.148	0.807	11011	1.03	38773.8339	44044
3249	3.542	1.476	0.000	1.135	0.779	11011	1.10	38774.7356	44044
3249	3.506	1.446	0.000	1.163	0.768	11011	1.01	38774.8053	44044
3249	3.498	1.466	1.777	0.000	0.000	11100	1.54	38786.6285	44400
3249	3.521	1.482	1.793	0.000	0.000	11100	1.08	38786.7097	44400
3249	3.538	1.482	1.785	0.000	0.000	11100	1.06	38786.8160	44400
3249	3.494	1.501	1.762	0.000	0.000	11100	2.43	38787.5785	44400
3249	3.529	1.487	1.800	0.000	0.000	11100	1.09	38787.7049	44400
3249	3.543	1.473	1.777	0.000	0.000	11100	1.02	38787.7819	44400
3249	3.506	1.482	1.774	0.000	0.000	11100	1.12	38787.8361	44400
3249	3.589	1.508	0.000	1.147	0.818	11011	1.01	38790.7543	44044
3249	3.449	1.487	0.000	1.107	0.772	11011	1.02	38791.7397	44044
3249	3.467	1.484	0.000	1.094	0.791	11011	1.48	38791.8881	44044
3249	3.472	1.503	0.000	1.102	0.769	11011	1.15	38793.6682	44044
3249	3.490	1.488	0.000	1.129	0.765	11011	1.02	38794.7411	22022
3249	3.520	1.492	0.000	1.131	0.795	11011	1.13	38794.8203	22022
3249	3.512	1.478	1.786	0.000	0.000	11100	1.07	38798.6812	44400
3249	3.495	1.474	1.790	0.000	0.000	11100	1.13	38798.8090	44400
3249	3.499	1.497	1.773	0.000	0.000	11100	1.95	38799.5653	44400
3249	3.516	1.487	1.778	0.000	0.000	11100	1.05	38799.6931	44400
3249	3.546	1.480	1.815	0.000	0.000	11100	1.21	38812.7913	44400
3249	3.528	1.460	1.798	0.000	0.000	11100	1.48	38812.8311	44400
3249	3.511	1.481	0.000	1.119	0.765	11011	1.60	38814.5472	22022
3249	3.502	1.494	0.000	1.103	0.791	11011	1.01	38814.6940	22022
3249	3.522	1.484	0.000	1.123	0.794	11011	1.68	38814.8432	22022
3249	3.526	1.501	0.000	1.081	0.736	11011	1.45	38815.5586	44044
3249	3.527	1.504	0.000	1.110	0.793	11011	1.01	38815.6925	44044
3249	3.518	1.488	0.000	1.160	0.792	11011	3.10	38815.8925	44044
3249	3.663	1.498	0.000	1.136	0.719	11011	1.40	38816.5626	22022
3249	3.470	1.485	0.000	1.123	0.777	11011	1.01	38816.6876	22022
3249	3.469	1.497	0.000	1.105	0.812	11011	1.89	38816.8508	22022
3249	3.438	1.496	0.000	1.118	0.785	11011	1.02	38817.6786	22022
3249	3.516	1.479	0.000	1.150	0.765	11011	1.05	38818.6376	44044
3249	3.521	1.500	0.000	1.134	0.791	11011	1.01	38818.6856	44044
3249	3.501	1.474	0.000	1.098	0.786	11011	1.03	38819.6515	22022
3249	3.525	1.475	0.000	1.113	0.792	11011	1.11	38819.7460	22022
3249	3.560	1.515	0.000	1.135	0.797	11011	1.29	38819.7869	22022
3249	3.593	1.502	0.000	1.123	0.815	11011	1.77	38819.8356	22022
3249	3.555	1.480	0.000	1.122	0.778	11011	1.33	38820.5606	22022
3249	3.420	1.486	0.000	1.123	0.770	11011	1.01	38820.6751	22022
3249	3.508	1.486	0.000	1.092	0.760	11011	1.32	38822.5564	44044
3249	3.537	1.509	0.000	1.120	0.785	11011	1.02	38822.6814	44044
3249	3.527	1.479	0.000	1.163	0.792	11011	2.30	38822.8529	44044
3249	3.484	1.493	0.000	1.137	0.718	11011	1.26	38823.5633	44044
3249	3.489	1.515	0.000	1.089	0.796	11011	1.02	38823.6647	44044
3249	3.488	1.479	0.000	1.136	0.819	11011	2.19	38823.8460	44044
3249	3.500	1.466	0.000	1.137	0.755	11011	1.27	38824.5596	44044
3249	3.523	1.523	0.000	1.092	0.810	11011	1.01	38824.6612	44044
3249	3.515	1.507	0.000	1.148	0.794	11011	2.03	38824.8362	44044
3249	3.492	1.503	0.000	1.089	0.766	11011	1.18	38825.5744	44044
3249	3.485	1.459	0.000	1.125	0.766	11011	1.01	38825.6647	44044
3249	3.517	1.510	0.000	1.161	0.802	11011	4.63	38825.8842	44044
3249	3.575	1.499	0.000	1.151	0.757	11011	1.20	38827.5640	44044
3249	3.554	1.520	0.000	1.099	0.796	11011	1.01	38827.6542	44044
3249	3.492	1.461	0.000	1.142	0.774	11011	2.22	38827.8362	44044
3249	3.552	1.513	0.000	1.108	0.797	11011	1.28	38835.7425	44044
3249	3.559	1.496	0.000	1.128	0.813	11011	1.99	38835.8046	44044
3249	3.538	1.485	0.000	1.119	0.795	11011	1.01	38836.6335	44044
3249	3.599	1.472	0.000	1.122	0.789	11011	2.51	38836.8212	44044
3249	3.566	1.473	0.000	1.108	0.781	11011	1.02	38837.6244	44044
3249	3.549	1.475	0.000	1.134	0.808	11011	2.17	38837.8071	44044
3249	3.563	1.512	0.000	1.140	0.786	11011	1.01	38838.6308	44044
3249	3.591	1.498	0.000	1.130	0.818	11011	2.14	38838.8029	44044
3249	3.497	1.517	0.000	1.131	0.802	11011	1.01	38839.6243	44044
3249	3.527	1.506	0.000	1.117	0.815	11011	1.23	38839.7224	44044
3249	3.566	1.483	0.000	1.020	0.766	11011	2.27	38839.8051	44044
3249	3.461	1.496	0.000	1.094	0.774	11011	1.02	38841.6244	44044
3249	3.510	1.496	0.000	1.101	0.792	11011	1.03	38841.6486	44044
3249	3.585	1.487	0.000	1.150	0.830	11011	1.67	38841.7689	44044
3249	3.528	1.499	0.000	0.000	0.000	11000	1.01	38842.6189	44044
3249	3.523	1.492	0.000	1.123	0.827	11011	2.09	38842.7897	44044
3249	3.456	1.415	1.752	0.000	0.000	11100	1.08	38844.5549	44400
3249	3.769	1.501	1.804	0.000	0.000	11100	2.14	38844.7866	44400
3249	3.517	1.471	1.791	0.000	0.000	11100	1.03	38845.5762	44400
3249	3.696	1.401	1.808	0.000	0.000	11100	2.09	38845.7819	44400
3249	3.501	1.456	1.804	0.000	0.000	11100	1.11	38873.5979	44400
3249	3.527	1.466	1.781	0.000	0.000	11100	1.98	38873.7000	44400
3270	4.484	0.224	0.000	0.181	0.120	11011	1.77	38107.6444	44044
3270	4.549	0.237	0.000	0.221	0.115	11011	1.77	38113.6035	44044
3270	4.484	0.230	0.000	0.240	0.129	11011	1.80	38121.6194	44044

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3279	5.551	0.790	0.000	0.626	0.455	11011	1.29	38819.6737	22022
3279	5.517	0.760	0.000	0.639	0.442	11011	1.29	38820.6793	22022
3279	5.605	0.757	0.000	0.643	0.466	11011	1.29	38822.6856	44044
3282	4.891	1.444	0.000	1.033	0.737	11011	1.62	38113.6076	44044
3282	4.811	1.452	0.000	1.012	0.740	11011	1.65	38114.6396	44044
3282	4.736	1.439	0.000	0.965	0.752	11011	1.68	38124.6215	44044
3294	4.961	-0.126	0.000	-0.015	-0.124	11011	2.58	38113.6132	44044
3294	4.644	-0.141	0.000	-0.040	-0.123	11011	2.67	38114.6458	44044
3294	4.632	-0.195	0.000	-0.078	-0.127	11011	2.73	38124.6278	44044
3319	5.558	1.594	0.000	1.638	1.413	11011	1.06	38773.7589	44044
3319	5.599	1.566	0.000	1.639	1.446	11011	1.01	38774.7908	44044
3319	5.520	1.658	0.000	1.624	1.394	11011	1.01	38790.7439	44044
3319	5.419	1.629	0.000	1.596	1.377	11011	1.02	38791.7307	44044
3319	5.754	1.611	1.843	0.000	0.000	11100	1.22	38812.8036	44400
3319	5.457	1.593	1.893	0.000	0.000	11100	1.02	38844.5889	44400
3319	5.498	1.588	1.945	0.000	0.000	11100	1.04	38845.5693	44400
3391	5.629	0.595	0.000	0.540	0.311	11011	1.45	38819.7196	22022
3391	5.637	0.651	0.000	0.496	0.336	11011	1.62	38823.7829	44044
3391	5.661	0.612	0.000	0.522	0.352	11011	1.79	38824.8156	44044
3391	5.628	0.594	0.000	0.532	0.327	11011	1.65	38825.7862	44044
3407	5.088	1.348	0.000	0.993	0.708	11011	2.75	38113.6201	44044
3407	4.830	1.331	0.000	0.959	0.708	11011	2.83	38114.6514	44044
3407	4.777	1.270	0.000	0.943	0.623	11011	2.88	38124.6319	44044
3426	4.216	0.128	0.000	0.136	0.167	11011	2.11	38113.6250	44044
3426	4.060	0.100	0.000	0.142	0.148	11011	2.18	38114.6569	44044
3426	4.014	0.056	0.000	0.175	0.158	11011	2.22	38124.6375	44044
3427	6.403	1.020	0.000	0.664	0.455	11011	1.00	38407.8104	44044
3427	6.364	0.999	0.000	0.739	0.474	11011	1.00	38409.8306	44044
3427	6.393	0.995	0.000	0.708	0.465	11011	1.00	38413.8028	44044
3427	6.385	1.010	0.000	0.703	0.487	11011	1.09	38413.8757	44044
3427	6.347	0.989	0.000	0.702	0.480	11011	1.29	38413.9215	44044
3427	6.401	1.007	0.000	0.725	0.483	11011	1.76	38413.9701	44044
3427	6.374	0.996	0.000	0.704	0.482	11011	1.01	38437.7639	22022
3427	6.384	0.978	0.000	0.724	0.502	11011	1.23	38437.8444	22022
3427	6.418	0.985	0.000	0.725	0.485	11011	1.07	38438.7972	44044
3427	6.394	0.959	0.000	0.728	0.500	11011	1.30	38438.8556	44044
3427	6.378	0.959	0.000	0.715	0.482	11011	1.92	38438.9111	44044
3427	6.389	0.981	0.000	0.698	0.476	11011	1.03	38440.7729	44044
3427	6.398	0.964	0.000	0.714	0.481	11011	1.13	38440.8146	44044
3427	6.390	0.958	0.000	0.691	0.501	11011	1.46	38440.8701	44044
3427	6.401	1.012	0.000	0.706	0.460	11011	2.04	38440.9118	44044
3427	6.373	0.981	0.000	0.697	0.484	11011	1.04	38441.7757	44044
3427	6.383	0.973	0.000	0.739	0.463	11011	1.28	38441.8431	44044
3427	6.382	0.989	0.000	0.692	0.501	11011	1.70	38441.8889	44044
3427	6.417	0.986	0.000	0.709	0.465	11011	1.00	38442.7326	44044
3427	6.433	0.991	0.000	0.745	0.457	11011	1.12	38442.8049	44044
3427	6.428	0.968	0.000	0.736	0.484	11011	1.46	38442.8653	44044
3427	6.370	1.000	0.000	0.728	0.469	11011	1.97	38442.9028	44044
3427	6.410	0.978	0.000	0.734	0.449	11011	1.00	38443.7264	44044
3427	6.408	0.981	0.000	0.725	0.487	11011	1.17	38443.8153	44044
3427	6.425	0.965	0.000	0.737	0.464	11011	1.44	38443.8604	44044
3427	6.345	0.978	0.000	0.723	0.490	11011	2.26	38443.9132	44044
3427	6.350	1.002	0.000	0.701	0.450	11011	1.02	38444.7514	44044
3427	6.372	0.984	0.000	0.711	0.436	11011	1.03	38445.6778	44044
3427	6.328	0.972	0.000	0.713	0.466	11011	1.00	38445.7243	44044
3427	6.327	0.985	0.000	0.719	0.473	11011	1.08	38445.7819	44044
3427	6.341	0.965	0.000	0.726	0.487	11011	1.55	38445.8660	44044
3427	6.343	0.995	0.000	0.692	0.444	11011	1.03	38446.6757	44044
3427	6.351	0.984	0.000	0.683	0.472	11011	1.00	38446.7215	44044
3427	6.375	0.947	0.000	0.734	0.473	11011	1.10	38446.7896	44044
3427	6.353	0.979	0.000	0.694	0.494	11011	1.38	38446.8437	44044
3427	6.365	0.989	0.000	0.710	0.463	11011	1.01	38447.7312	44044
3427	6.355	0.958	0.000	0.722	0.483	11011	1.30	38447.8306	44044
3427	6.399	0.977	0.000	0.736	0.506	11011	1.04	38790.8189	44044
3427	6.416	0.965	0.000	0.727	0.491	11011	1.09	38814.7765	22022
3427	6.384	1.025	0.000	0.688	0.505	11011	1.01	38815.7299	44044
3427	6.332	0.961	0.000	0.723	0.486	11011	1.40	38816.8340	22022
3427	6.366	0.983	0.000	0.712	0.487	11011	1.64	38822.8411	44044
3427	6.392	1.017	0.000	0.707	0.486	11011	1.16	38823.7744	44044
3427	6.391	0.957	0.000	0.708	0.500	11011	1.51	38824.8244	44044
3427	6.373	0.951	0.000	0.710	0.469	11011	1.20	38825.7765	44044
3427	6.398	0.963	0.000	0.748	0.468	11011	1.64	38827.8279	44044
3427	6.534	1.023	0.000	0.765	0.507	11011	1.18	38836.7418	44044
3427	6.425	1.011	0.000	0.709	0.492	11011	1.25	38837.7536	44044
3427	6.457	1.007	0.000	0.757	0.482	11011	1.22	38838.7467	44044
3427	6.400	1.001	0.000	0.746	0.489	11011	1.07	38839.7000	44044
3427	6.303	0.934	0.803	0.000	0.000	11100	1.02	38844.5965	44400
3427	6.590	0.983	0.849	0.000	0.000	01100	1.47	38844.7658	44400
3427	6.388	0.996	0.879	0.000	0.000	11100	1.03	38845.5844	44400
3427	6.658	0.989	0.878	0.000	0.000	01100	1.43	38845.7587	44400
3428	6.406	1.038	0.000	0.732	0.494	11011	1.02	38413.8410	44044
3428	6.432	1.031	0.000	0.734	0.505	11011	1.19	38438.8333	44044
3428	6.379	1.002	0.000	0.736	0.465	11011	1.01	38446.6875	44044
3428	6.416	1.013	0.000	0.754	0.504	11011	1.07	38790.8369	44044
3429	6.275	0.150	0.000	0.158	0.070	11011	1.05	38413.8569	44044
3429	6.309	0.113	0.000	0.176	0.079	11011	1.44	38438.8736	44044
3429	6.258	0.138	0.000	0.172	0.021	11011	1.02	38446.6833	44044
3429	6.287	0.129	0.000	0.179	0.053	11011	1.11	38790.8494	44044
3438	4.008	0.932	0.000	0.674	0.476	11011	1.71	38113.6319	44044
3438	3.939	0.936	0.000	0.675	0.474	11011	1.77	38114.6618	44044
3438	3.860	0.920	0.000	0.641	0.476	11011	1.80	38124.6424	44044
3445	3.894	0.728	0.000	0.662	0.620	11011	2.41	38113.6368	44044
3445	3.662	0.723	0.000	0.654	0.599	11011	2.53	38114.6667	44044
3445	3.615	0.667	0.000	0.570	0.587	11011	2.59	38124.6472	44044
3452	4.874	0.125	0.000	0.221	0.190	11011	2.48	38113.6424	44044
3452	4.617	0.108	0.000	0.233	0.191	11011	2.63	38114.6708	44044
3452	4.588	0.060	0.000	0.160	0.193	11011	2.70	38124.6521	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3454	4.240	-0.232	0.000	-0.095	-0.185	11011	1.17	38096.7542	22022
3454	4.344	-0.210	0.000	-0.051	-0.167	11011	1.31	38099.7729	44044
3454	4.230	-0.236	0.000	-0.063	-0.184	11011	3.61	38099.8743	44044
3454	4.311	-0.218	0.000	-0.075	-0.183	11011	1.10	38103.7111	44044
3454	4.298	-0.128	0.000	-0.101	-0.161	11011	1.76	38103.8083	44044
3454	4.308	-0.185	0.000	-0.067	-0.244	11011	1.10	38107.5931	44044
3454	4.261	-0.210	0.000	-0.085	-0.126	11011	3.69	38107.8535	44044
3454	4.355	-0.172	0.000	-0.090	-0.189	11011	1.21	38112.7194	44044
3454	4.263	-0.225	0.000	-0.085	-0.144	11011	3.21	38112.8326	44044
3454	4.363	-0.179	0.000	-0.100	-0.215	11011	1.10	38113.5771	44044
3454	4.244	-0.200	0.000	-0.058	-0.158	11011	2.15	38113.8014	44044
3454	4.381	-0.214	0.000	-0.085	-0.187	11011	1.04	38114.6236	44044
3454	4.272	-0.213	0.000	-0.091	-0.197	11011	1.06	38121.5736	44044
3454	4.222	-0.185	0.000	-0.097	-0.130	11011	2.64	38121.7958	44044
3454	4.290	-0.177	0.000	-0.114	-0.169	11011	1.04	38124.5965	44044
3454	4.258	-0.162	0.000	-0.016	-0.148	11011	3.10	38124.7975	44044
3454	4.283	-0.189	0.000	-0.042	-0.208	11011	2.67	38342.8132	44044
3454	4.292	-0.186	0.000	-0.054	-0.213	11011	1.17	38342.9257	44044
3454	4.252	-0.194	0.000	-0.072	-0.150	11011	1.04	38350.9875	44044
3454	4.284	-0.188	0.000	-0.068	-0.151	11011	3.96	38351.7667	44044
3454	4.238	-0.187	0.000	-0.060	-0.180	11011	1.04	38351.9646	44044
3454	4.273	-0.182	-0.770	0.000	0.000	11100	2.04	38733.7646	44400
3454	4.276	-0.218	-0.771	0.000	0.000	11100	1.04	38733.9160	44400
3454	4.311	-0.196	-0.751	0.000	0.000	11100	2.70	38766.6521	44400
3454	4.314	-0.200	-0.738	0.000	0.000	11100	1.16	38766.7660	44400
3454	4.260	-0.183	-0.763	0.000	0.000	11100	1.05	38766.8687	44400
3454	4.251	-0.216	-0.755	0.000	0.000	11100	1.96	38786.6236	44400
3454	4.322	-0.206	-0.738	0.000	0.000	11100	1.18	38786.7069	44400
3454	4.324	-0.196	-0.731	0.000	0.000	11100	1.06	38786.8194	44400
3454	4.300	-0.208	-0.751	0.000	0.000	11100	3.29	38787.5826	44400
3454	4.298	-0.195	-0.741	0.000	0.000	11100	1.16	38787.7083	44400
3454	4.307	-0.177	-0.756	0.000	0.000	11100	1.04	38787.7861	44400
3454	4.275	-0.180	-0.751	0.000	0.000	11100	1.10	38787.8403	44400
3454	4.344	-0.179	-0.763	0.000	0.000	11100	2.29	38798.5771	44400
3454	4.288	-0.225	-0.736	0.000	0.000	11100	1.14	38798.6854	44400
3454	4.270	-0.202	-0.748	0.000	0.000	11100	1.11	38798.8125	44400
3454	4.304	-0.198	-0.760	0.000	0.000	11100	2.43	38799.5694	44400
3454	4.276	-0.192	-0.759	0.000	0.000	11100	1.10	38799.6965	44400
3454	4.309	-0.181	-0.727	0.000	0.000	11100	1.17	38812.7941	44400
3454	4.289	-0.181	-0.735	0.000	0.000	11100	1.33	38812.8252	44400
3454	4.140	-0.228	-0.790	0.000	0.000	11100	1.17	38844.5512	44400
3454	4.438	-0.147	-0.699	0.000	0.000	11100	1.93	38844.7901	44400
3454	4.239	-0.176	-0.767	0.000	0.000	11100	1.08	38845.5804	44400
3454	4.454	-0.222	-0.715	0.000	0.000	11100	1.90	38845.7853	44400
3454	4.251	-0.198	-0.729	0.000	0.000	11100	1.10	38873.6042	44400
3454	4.284	-0.192	-0.742	0.000	0.000	11100	1.83	38873.7049	44400
3464	6.100	0.933	0.000	0.675	0.480	11011	1.05	38819.7376	22022
3464	6.139	0.925	0.000	0.711	0.496	11011	1.22	38823.7883	44044
3464	6.145	0.929	0.000	0.713	0.508	11011	1.43	38824.8203	44044
3464	6.130	0.912	0.000	0.702	0.493	11011	1.26	38825.7904	44044
3468	3.799	-0.159	0.000	-0.060	-0.167	11011	1.64	38113.6472	44044
3468	3.679	-0.190	0.000	-0.056	-0.162	11011	1.72	38114.6757	44044
3468	3.591	-0.258	0.000	-0.115	-0.157	11011	1.77	38124.6569	44044
3477	4.143	0.896	0.000	0.647	0.513	11011	2.12	38113.6528	44044
3477	4.082	0.885	0.000	0.643	0.486	11011	2.10	38121.6243	44044
3477	3.934	0.841	0.000	0.605	0.490	11011	2.33	38124.6611	44044
3485	1.893	0.032	0.000	0.022	0.065	11011	3.66	38449.7458	44044
3485	1.949	0.047	0.000	0.087	0.006	11011	3.88	38450.7604	44044
3485	1.921	0.029	0.000	0.042	0.036	11011	3.50	38455.6847	44044
3487	4.030	0.015	0.000	0.075	0.113	11011	2.39	38113.6576	44044
3487	3.906	0.025	0.000	0.016	0.131	11011	2.37	38121.6285	44044
3487	3.798	-0.033	0.000	0.063	0.135	11011	2.66	38124.6653	44044
3518	4.009	1.278	0.000	0.961	0.666	11011	1.55	38431.8153	44044
3518	3.970	1.301	0.000	0.951	0.663	11011	1.59	38453.7646	44044
3518	4.026	1.279	0.000	0.957	0.672	11011	1.46	38455.6896	44044
3527	5.219	-0.191	0.000	-0.059	-0.173	11011	2.44	38113.6625	44044
3527	5.111	-0.212	0.000	-0.103	-0.159	11011	2.42	38121.6333	44044
3527	4.995	-0.220	0.000	-0.074	-0.146	11011	2.74	38124.6701	44044
3541	6.694	3.345	0.000	2.304	1.350	11011	1.06	38773.7764	44044
3541	-0.015	-0.005	0.000	2.294	1.374	00011	1.00	38774.8201	44044
3541	6.653	3.385	0.000	2.269	1.401	11011	1.00	38790.7717	44044
3541	6.586	3.363	0.000	2.258	1.349	11011	1.03	38791.7439	44044
3541	6.392	3.215	0.000	2.114	1.384	11011	1.23	38842.7467	44044
3556	4.872	0.095	0.000	0.146	0.035	11011	1.55	38431.8187	44044
3556	4.863	0.113	0.000	0.113	0.072	11011	1.50	38449.7535	44044
3556	4.883	0.104	0.000	0.125	0.045	11011	1.55	38450.7660	44044
3556	4.872	0.129	0.000	0.117	0.050	11011	1.73	38452.7931	44044
3556	4.893	0.124	0.000	0.114	0.051	11011	1.45	38455.6951	44044
3591	4.512	0.652	0.000	0.554	0.430	11011	2.04	38113.6681	44044
3591	4.487	0.679	0.000	0.502	0.411	11011	2.02	38121.6382	44044
3591	4.405	0.638	0.000	0.591	0.380	11011	2.27	38124.6778	44044
3595	5.472	-0.036	0.000	0.028	0.000	11010	1.03	38819.7512	22022
3595	5.495	-0.065	0.000	0.020	-0.028	11011	1.17	38823.7925	44044
3595	5.433	-0.048	0.000	0.004	-0.043	11011	1.43	38824.8326	44044
3595	5.461	-0.069	0.000	0.026	-0.047	11011	1.21	38825.7946	44044
3614	3.759	1.209	0.000	0.804	0.592	11011	2.45	38107.6507	44044
3614	3.826	1.190	0.000	0.844	0.613	11011	2.50	38113.6729	44044
3614	3.794	1.219	0.000	0.798	0.611	11011	2.47	38121.6431	44044
3628	4.604	1.574	0.000	1.261	0.913	11011	1.48	38431.8229	44044
3628	4.590	1.577	0.000	1.214	0.958	11011	1.44	38449.7604	44044
3628	4.507	1.587	0.000	1.244	0.855	11011	1.49	38450.7722	44044
3628	4.583	1.599	0.000	1.209	0.916	11011	1.65	38452.7986	44044
3628	4.601	1.600	0.000	1.228	0.921	11011	1.41	38455.6993	44044
3634	2.183	1.659	0.000	1.217	0.945	11011	2.15	38107.6569	44044
3634	2.210	1.637	0.000	-1.257	2.975	11000	2.20	38113.6785	44044
3634	2.203	1.583	0.000	1.265	0.944	11011	2.44	38124.6826	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
3654	5.053	0.243	0.000	0.284	0.208	11011	2.25	38107.6625	44044
3654	5.015	0.245	0.000	0.277	0.211	11011	2.28	38121.6472	44044
3654	4.998	0.229	0.000	0.308	0.245	11011	2.59	38124.6861	44044
3682	4.926	1.137	0.000	0.769	0.587	11011	1.85	38107.6694	44044
3682	4.986	1.110	0.000	0.822	0.545	11011	1.88	38121.6521	44044
3682	4.893	1.110	0.000	0.774	0.594	11011	2.19	38124.6986	44044
3684	4.687	0.448	0.000	0.425	0.270	11011	1.84	38113.6826	44044
3684	4.657	0.465	0.000	0.347	0.282	11011	1.83	38121.6562	44044
3684	4.630	0.470	0.000	0.361	0.292	11011	2.16	38124.7028	44044
3718	4.711	1.664	0.000	1.405	1.079	11011	1.47	38431.8271	44044
3718	4.703	1.671	0.000	1.387	1.114	11011	1.44	38449.7646	44044
3718	4.717	1.675	0.000	1.409	1.109	11011	1.47	38450.7757	44044
3718	4.691	1.668	0.000	1.374	1.071	11011	1.62	38452.8035	44044
3718	4.716	1.661	0.000	1.381	1.100	11011	1.42	38455.7042	44044
3733	4.704	0.910	0.000	0.694	0.469	11011	1.56	38431.8312	44044
3733	4.699	0.917	0.000	0.693	0.500	11011	1.52	38449.7708	44044
3733	4.740	0.965	0.000	0.717	0.493	11011	1.57	38450.7826	44044
3733	4.688	0.911	0.000	0.690	0.474	11011	1.74	38452.8083	44044
3733	4.723	0.903	0.000	0.704	0.484	11011	1.49	38455.7104	44044
3765	4.526	1.442	0.000	1.023	0.756	11011	1.76	38113.6889	44044
3765	4.515	1.456	0.000	1.009	0.738	11011	1.75	38121.6604	44044
3765	4.499	1.441	0.000	1.004	0.777	11011	2.03	38124.7076	44044
3786	3.635	0.365	0.000	0.331	0.226	11011	2.01	38113.6937	44044
3786	3.549	0.363	0.000	0.276	0.237	11011	1.98	38121.6646	44044
3786	3.569	0.365	0.000	0.296	0.243	11011	2.38	38124.7146	44044
3815	5.336	0.794	0.000	0.591	0.377	11011	1.05	38388.9132	44044
3815	5.344	0.801	0.000	0.575	0.338	11011	1.57	38389.7590	44044
3815	5.380	0.773	0.000	0.638	0.359	11011	1.05	38389.9187	44044
3815	5.381	0.791	0.000	0.624	0.363	11011	1.05	38390.9215	44044
3815	5.344	0.809	0.000	0.554	0.385	11011	1.14	38407.7861	44044
3815	5.394	0.758	0.000	0.666	0.325	11011	1.05	38409.8528	44044
3815	5.374	0.797	0.000	0.577	0.384	11011	1.05	38413.8660	44044
3815	5.386	0.783	0.000	0.623	0.380	11011	1.50	38413.9875	44044
3815	5.410	0.794	0.000	0.616	0.391	11011	1.06	38437.8083	22022
3815	5.333	0.735	0.000	0.632	0.392	11011	1.37	38437.9049	22022
3815	5.373	0.773	0.000	0.588	0.385	11011	1.05	38438.7882	44044
3815	5.397	0.784	0.000	0.629	0.380	11011	1.78	38438.9451	44044
3815	5.367	0.745	0.000	0.614	0.378	11011	1.06	38439.7993	44044
3815	5.416	0.746	0.000	0.630	0.364	11011	1.05	38440.7639	44044
3815	5.413	0.771	0.000	0.613	0.379	11011	1.65	38440.9292	44044
3815	5.388	0.790	0.000	0.597	0.361	11011	1.05	38441.7576	44044
3815	5.420	0.796	0.000	0.627	0.397	11011	1.50	38441.9104	44044
3815	5.356	0.751	0.000	0.609	0.386	11011	1.60	38442.9194	44044
3815	5.407	0.770	0.000	0.625	0.373	11011	1.05	38443.7674	44044
3815	5.349	0.750	0.000	0.626	0.391	11011	1.72	38443.9271	44044
3815	5.327	0.790	0.000	0.608	0.348	11011	1.05	38444.7368	44044
3815	5.339	0.738	0.000	0.622	0.375	11011	1.05	38445.7681	44044
3815	5.367	0.766	0.000	0.621	0.376	11011	1.05	38446.7611	44044
3815	5.377	0.784	0.000	0.608	0.361	11011	1.07	38447.7118	44044
3815	5.361	0.816	0.000	0.610	0.394	11011	1.18	38450.8285	44044
3815	5.342	0.770	0.000	0.600	0.376	11011	1.17	38451.8243	44044
3815	5.393	0.782	0.000	0.617	0.366	11011	1.05	38452.7604	44044
3836	4.436	0.151	0.000	0.207	0.105	11011	2.76	38113.6986	44044
3836	4.276	0.165	0.000	0.069	0.125	11011	2.73	38121.6708	44044
3836	4.318	0.140	0.000	0.163	0.077	11011	3.40	38124.7194	44044
3871	4.755	0.506	0.000	0.482	0.272	11011	1.50	38121.6847	44044
3871	4.775	0.524	0.000	0.474	0.321	11011	1.50	38431.8361	44044
3871	4.741	0.522	0.000	0.481	0.316	11011	1.48	38453.7694	44044
3871	4.805	0.507	0.000	0.472	0.328	11011	1.47	38455.7153	44044
3912	4.579	1.230	0.000	0.799	0.628	11011	2.39	38107.6868	44044
3912	4.593	1.205	0.000	0.826	0.637	11011	2.45	38113.7062	44044
3912	4.529	1.187	0.000	0.789	0.634	11011	2.41	38121.6750	44044
3912	4.493	1.168	0.000	0.881	0.668	11011	2.42	38432.8229	44044
3912	4.580	1.205	0.000	0.852	0.585	11011	2.42	38455.7208	44044
3974	4.403	0.168	0.000	0.146	0.080	11011	1.05	38388.9181	44044
3974	4.422	0.225	0.000	0.130	0.057	11011	1.76	38389.7639	44044
3974	4.433	0.184	0.000	0.162	0.068	11011	1.04	38389.9236	44044
3974	4.462	0.193	0.000	0.188	0.056	11011	1.04	38390.9264	44044
3974	4.449	0.109	0.000	0.175	0.070	11011	1.19	38407.7937	44044
3974	4.454	0.191	0.000	0.167	0.062	11011	1.04	38413.8708	44044
3974	4.485	0.171	0.000	0.194	0.072	11011	1.37	38413.9917	44044
3974	4.484	0.184	0.000	0.175	0.095	11011	1.04	38437.8132	22022
3974	4.457	0.143	0.000	0.196	0.095	11011	1.28	38437.9111	22022
3974	4.464	0.172	0.000	0.150	0.082	11011	1.04	38438.7917	44044
3974	4.487	0.163	0.000	0.196	0.095	11011	1.57	38438.9493	44044
3974	4.432	0.168	0.000	0.172	0.068	11011	1.04	38439.8035	44044
3974	4.498	0.141	0.000	0.187	0.041	11011	1.05	38440.7687	44044
3974	4.482	0.183	0.000	0.164	0.073	11011	1.47	38440.9326	44044
3974	4.453	0.177	0.000	0.154	0.061	11011	1.06	38441.7535	44044
3974	4.453	0.177	0.000	0.154	0.061	11011	1.06	38441.7535	44044
3974	4.489	0.189	0.000	0.198	0.091	11011	1.37	38441.9153	44044
3974	4.438	0.151	0.000	0.188	0.076	11011	1.45	38442.9243	44044
3974	4.468	0.181	0.000	0.162	0.053	11011	1.05	38443.7715	44044
3974	4.424	0.145	0.000	0.194	0.075	11011	1.53	38443.9312	44044
3974	4.409	0.205	0.000	0.156	0.050	11011	1.08	38444.7319	44044
3974	4.396	0.177	0.000	0.175	0.059	11011	1.05	38445.7632	44044
3974	4.449	0.156	0.000	0.201	0.067	11011	1.04	38446.7653	44044
3974	4.436	0.175	0.000	0.148	0.069	11011	1.10	38447.7160	44044
3974	4.453	0.198	0.000	0.174	0.082	11011	1.12	38450.8333	44044
3974	4.444	0.174	0.000	0.180	0.090	11011	1.12	38451.8271	44044
3974	4.461	0.185	0.000	0.184	0.043	11011	1.04	38452.7660	44044
3998	6.430	0.442	0.000	0.424	0.264	11011	1.00	38819.7599	22022
3998	6.435	0.460	0.000	0.407	0.285	11011	1.05	38823.7967	44044
3998	6.432	0.433	0.000	0.394	0.291	11011	1.38	38824.8696	44044
3998	6.371	0.437	0.000	0.405	0.261	11011	1.16	38825.8279	44044
4023	3.869	0.067	0.000	0.018	0.033	11011	2.07	38107.6931	44044
4023	3.850	0.065	0.000	0.032	0.027	11011	2.07	38113.7111	44044

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B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4023	3.781	0.043	0.000	-0.013	0.026	11011	2.06	38121.6799	44044
4023	3.852	0.060	0.000	0.043	0.008	11011	2.11	38455.7264	44044
4080	4.747	1.094	0.000	0.832	0.542	11011	2.07	38103.7549	44044
4080	4.816	1.146	0.000	0.764	0.588	11011	2.04	38107.6979	44044
4080	4.800	1.129	0.000	0.756	0.612	11011	2.09	38113.7340	44044
4080	4.763	1.117	0.000	0.849	0.591	11011	2.02	38432.8278	44044
4080	4.824	1.123	0.000	0.810	0.551	11011	2.08	38455.7306	44044
4104	4.189	1.409	0.000	1.114	0.761	11011	1.59	38103.7625	44044
4104	4.250	1.448	0.000	1.067	0.795	11011	1.55	38107.7104	44044
4104	4.199	1.437	0.000	1.081	0.811	11011	1.61	38113.7396	44044
4104	4.212	1.452	0.000	1.121	0.812	11011	1.55	38432.8319	44044
4104	4.253	1.464	0.000	1.102	0.777	11011	1.59	38455.7347	44044
4141	5.192	0.318	0.000	0.350	0.156	11011	1.28	38819.7550	22022
4141	5.135	0.356	0.000	0.308	0.156	11011	1.30	38823.8008	44044
4141	5.181	0.330	0.000	0.326	0.204	11011	1.60	38824.8911	44044
4141	5.132	0.304	0.000	0.326	0.174	11011	1.37	38825.8321	44044
4153	5.416	2.957	0.000	2.101	1.371	11011	2.01	38773.8565	44044
4153	5.398	2.869	0.000	2.165	1.352	11011	1.97	38774.8612	44044
4153	5.272	2.831	0.000	2.103	1.338	11011	1.90	38790.8560	44044
4153	5.401	2.845	0.000	2.081	1.416	11011	1.94	38842.7365	44044
4167	3.699	0.288	0.000	0.263	0.112	11011	2.64	38103.7687	44044
4167	3.826	0.318	0.000	0.219	0.185	11011	2.55	38107.7167	44044
4167	3.856	0.262	0.000	0.257	0.198	11011	2.65	38113.7444	44044
4167	3.855	0.304	0.000	0.256	0.152	11011	2.64	38455.7403	44044
4216	2.540	0.884	0.000	0.672	0.423	11011	2.78	38103.7771	44044
4216	2.694	0.898	0.000	0.646	0.509	11011	2.69	38107.7222	44044
4216	2.719	0.848	0.000	0.709	0.528	11011	2.78	38113.7493	44044
4216	2.723	0.915	0.000	0.707	0.482	11011	2.78	38455.7458	44044
4273	4.584	1.027	0.000	0.755	0.526	11011	1.86	38103.7889	44044
4273	4.595	1.037	0.000	0.706	0.534	11011	1.78	38107.7465	44044
4273	4.584	1.015	0.000	0.749	0.545	11011	1.83	38113.7542	44044
4273	4.616	1.019	0.000	0.781	0.511	11011	1.84	38455.7507	44044
4278	5.998	1.595	1.895	0.000	0.000	11100	1.05	38812.8104	44400
4278	6.057	1.594	0.000	1.499	1.293	11011	1.07	38814.8383	22022
4278	6.023	1.615	0.000	1.480	1.297	11011	1.12	38815.8654	44044
4278	5.938	1.546	0.000	1.475	1.259	11011	1.08	38816.8460	22022
4278	6.135	1.603	0.000	1.510	1.296	11011	1.05	38836.7514	44044
4278	6.114	1.571	1.931	0.000	0.000	11100	1.18	38844.8097	44400
4278	6.099	1.594	1.908	0.000	0.000	11100	1.18	38845.8052	44400
4293	4.354	0.118	0.000	0.128	0.056	11011	2.17	38103.7951	44044
4293	4.398	0.109	0.000	0.112	0.096	11011	2.07	38107.7535	44044
4293	4.366	0.098	0.000	0.159	0.074	11011	2.13	38113.7583	44044
4293	4.427	0.124	0.000	0.121	0.060	11011	2.12	38455.7562	44044
4418	4.970	1.019	0.000	0.725	0.484	11011	1.09	38819.7642	22022
4418	5.063	0.915	0.000	0.825	0.517	11011	1.04	38823.8097	44044
4418	4.974	0.966	0.000	0.730	0.514	11011	1.17	38824.8737	44044
4418	4.901	0.991	0.000	0.700	0.503	11011	1.08	38825.8364	44044
4450	3.598	0.958	0.000	0.716	0.477	11011	1.58	38099.7854	44044
4450	3.549	1.002	0.000	0.652	0.488	11011	1.58	38107.7653	44044
4450	3.602	0.924	0.000	0.721	0.465	11011	1.58	38112.7535	44044
4450	3.572	0.954	0.000	0.719	0.456	11011	1.67	38455.7625	44044
4456	5.954	-0.145	0.000	-0.068	-0.183	11011	1.01	38114.7660	44044
4456	5.938	-0.153	0.000	-0.066	-0.203	11011	1.07	38114.8056	44044
4456	5.925	-0.134	0.000	-0.059	-0.209	11011	1.01	38115.7187	22022
4456	5.877	-0.165	0.000	-0.058	-0.139	11011	1.14	38115.8264	22022
4456	5.937	-0.146	0.000	-0.087	-0.193	11011	1.13	38118.6556	44043
4456	5.908	-0.173	0.000	-0.069	-0.183	11011	1.01	38118.7069	44043
4456	5.987	-0.159	0.000	-0.059	-0.140	11011	1.03	38118.7778	44043
4456	5.962	-0.135	0.000	-0.068	-0.154	11011	1.32	38118.8542	44043
4456	5.955	-0.168	0.000	-0.067	-0.179	11011	2.08	38118.9146	44043
4456	5.911	-0.177	0.000	-0.080	-0.202	11011	1.05	38129.6556	22021
4456	5.974	-0.148	0.000	-0.061	-0.172	11011	1.00	38129.7111	22021
4456	5.965	-0.143	0.000	-0.070	-0.137	11011	1.25	38129.8125	22021
4456	5.965	-0.145	0.000	-0.061	-0.187	11011	1.02	38130.7382	22021
4456	5.935	-0.168	0.000	-0.079	-0.157	11011	1.71	38130.8611	22021
4456	5.957	-0.153	0.000	-0.058	-0.187	11011	1.00	38131.7146	44043
4456	5.935	-0.162	0.000	-0.077	-0.164	11011	1.29	38131.8139	44043
4456	5.958	-0.153	0.000	-0.075	-0.182	11011	2.47	38131.8937	44043
4456	6.014	-0.150	0.000	-0.052	-0.204	11011	1.03	38132.6597	22021
4456	5.886	-0.163	0.000	-0.088	-0.162	11011	1.43	38132.8299	22021
4456	5.980	-0.131	0.000	-0.081	-0.175	11011	1.03	38133.6514	44044
4456	5.943	-0.177	0.000	-0.081	-0.156	11011	1.07	38133.7535	44044
4456	5.949	-0.177	0.000	-0.069	-0.149	11011	2.83	38133.8979	44044
4456	5.950	-0.156	0.000	-0.070	-0.173	11011	1.01	38134.6632	22021
4456	5.950	-0.156	0.000	-0.070	-0.179	11011	1.12	38135.6097	22021
4456	5.969	-0.139	0.000	-0.065	-0.174	11011	1.00	38136.6833	44044
4456	5.967	-0.138	0.000	-0.070	-0.155	11011	1.18	38136.7785	44044
4456	5.936	-0.173	0.000	-0.083	-0.174	11011	2.42	38136.8785	44044
4456	6.042	-0.156	-0.611	0.000	0.000	11100	1.08	38166.6681	44400
4456	6.048	-0.149	-0.624	0.000	0.000	11100	1.32	38166.7236	44400
4456	5.864	-0.164	-0.655	0.000	0.000	11100	1.10	38170.6632	22200
4456	6.097	-0.122	-0.593	0.000	0.000	11100	1.64	38170.7465	22200
4456	6.287	-0.066	-0.558	0.000	0.000	11100	1.72	38171.7500	22200
4456	5.939	-0.169	-0.696	0.000	0.000	11100	1.00	38173.6000	22200
4456	5.974	-0.158	-0.596	0.000	0.000	11100	1.24	38173.6903	22200
4456	5.824	-0.182	-0.684	0.000	0.000	11100	1.00	38174.5715	22200
4456	5.917	-0.161	-0.648	0.000	0.000	11100	1.03	38174.6250	22200
4456	5.992	-0.142	-0.640	0.000	0.000	11100	1.39	38174.7111	22200
4456	6.033	-0.138	-0.592	0.000	0.000	11100	1.59	38174.7312	22200
4456	5.834	-0.204	0.000	0.000	0.000	11000	1.01	38176.6042	12000
4456	6.154	-0.106	0.000	0.000	0.000	11000	1.47	38176.7146	12000
4456	6.265	-0.143	-0.788	0.000	0.000	11100	1.00	38177.5854	11100
4456	5.756	-0.203	-0.687	0.000	0.000	11100	1.06	38177.6319	11100
4456	5.981	-0.187	-0.696	0.000	0.000	11100	1.04	38178.6146	22200
4456	6.049	-0.153	-0.584	0.000	0.000	11100	1.91	38178.7424	22200
4456	6.102	-0.190	-0.671	0.000	0.000	11100	1.00	38179.5764	44400
4456	5.927	-0.139	-0.654	0.000	0.000	11100	1.46	38179.7049	44400
4456	5.944	-0.145	-0.611	0.000	0.000	11100	2.30	38179.7569	44400

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4456	5.973	-0.147	-0.652	0.000	0.000	11100	1.12	38180.6437	44400
4456	5.867	-0.167	-0.587	0.000	0.000	11100	2.17	38180.7493	44400
4456	5.948	-0.159	0.000	-0.078	-0.141	11011	1.50	38197.6597	44044
4456	5.957	-0.162	0.000	-0.067	-0.193	11011	1.86	38197.6875	44044
4456	5.907	-0.174	0.000	-0.096	-0.147	11011	1.30	38354.9722	44044
4456	5.925	-0.188	0.000	-0.034	-0.143	11011	1.32	38355.9667	44044
4456	5.866	-0.161	0.000	-0.057	-0.188	11011	1.48	38384.8674	22022
4456	5.881	-0.151	0.000	-0.074	-0.169	11011	1.09	38388.9285	44044
4456	5.881	-0.136	0.000	-0.073	-1.115	11010	1.07	38389.9299	44044
4456	5.905	-0.148	0.000	-0.047	-0.154	11011	1.00	38389.9875	44044
4456	5.934	-0.149	0.000	-0.052	-0.179	11011	1.02	38390.9542	44044
4456	5.947	-0.161	0.000	-0.034	-0.187	11011	1.14	38407.8604	44044
4456	5.930	-0.165	0.000	-0.074	-0.168	11011	1.00	38413.9271	44044
4456	5.979	-0.152	0.000	-0.038	-0.129	11011	1.09	38413.9965	44044
4456	5.950	-0.135	0.000	-0.064	-0.192	11011	1.33	38417.7951	22022
4456	5.899	-0.143	0.000	-0.074	-0.195	11011	1.57	38431.7299	44044
4456	5.948	-0.163	0.000	0.035	-0.200	11011	1.03	38431.8410	44044
4456	5.933	-0.182	0.000	-0.063	-0.181	11011	1.51	38432.7326	44044
4456	5.939	-0.159	0.000	-0.053	-0.191	11011	1.07	38432.8132	44044
4456	5.938	-0.163	0.000	-0.053	-0.176	11011	1.02	38432.8465	44044
4456	5.946	-0.151	0.000	-0.039	-0.148	11011	1.00	38437.8625	22022
4456	5.940	-0.142	0.000	-0.053	-0.157	11011	1.00	38438.8604	44044
4456	5.968	-0.174	0.000	-0.049	-0.126	11011	1.26	38438.9674	44044
4456	5.896	-0.161	0.000	-0.053	-0.175	11011	1.04	38439.8090	44044
4456	5.934	-0.180	0.000	-0.027	-0.153	11011	1.02	38439.8882	44044
4456	5.947	-0.166	0.000	-0.058	-0.166	11011	1.00	38440.8569	44044
4456	5.952	-0.151	0.000	-0.085	-0.153	11011	1.14	38440.9368	44044
4456	5.944	-0.145	0.000	-0.040	-0.152	11011	1.09	38441.9201	44044
4456	5.934	-0.145	0.000	-0.077	-0.149	11011	1.00	38442.8472	44044
4456	5.915	-0.172	0.000	-0.041	-0.164	11011	1.13	38442.9285	44044
4456	5.897	-0.170	0.000	-0.056	-0.158	11011	1.60	38442.9979	44044
4456	5.940	-0.129	0.000	-0.091	-0.184	11011	1.42	38443.7125	44044
4456	5.946	-0.149	0.000	-0.057	-0.166	11011	1.00	38443.8507	44044
4456	5.909	-0.185	0.000	-0.057	-0.145	11011	1.17	38443.9354	44044
4456	5.883	-0.179	0.000	-0.069	-0.151	11011	1.64	38443.9986	44044
4456	5.926	-0.141	0.000	-0.026	-0.160	11011	1.00	38444.8333	44044
4456	5.874	-0.183	0.000	-0.028	-0.174	11011	1.00	38445.8319	44044
4456	5.906	-0.163	0.000	-0.048	-0.129	11011	1.01	38446.8542	44044
4456	5.898	-0.151	0.000	-0.064	-0.178	11011	1.28	38447.7208	44044
4456	5.897	-0.144	0.000	-0.055	-0.143	11011	1.00	38447.8403	44044
4456	5.923	-0.135	0.000	-0.070	-0.193	11011	2.20	38449.6437	44044
4456	5.967	-0.176	0.000	-0.040	-0.152	11011	1.00	38449.8347	44044
4456	5.941	-0.170	0.000	-0.048	-0.205	11011	1.41	38450.6944	44044
4456	5.910	-0.151	0.000	-0.051	-0.179	11011	1.00	38450.8104	44044
4456	5.930	-0.164	0.000	-0.057	-0.147	11011	1.13	38450.9062	44044
4456	5.936	-0.146	0.000	-0.053	-0.153	11011	1.33	38450.9458	44044
4456	6.094	-0.126	0.000	-0.038	-0.185	11011	3.11	38451.6132	44044
4456	6.006	-0.143	0.000	-0.054	-0.211	11011	1.31	38451.7056	44044
4456	5.948	-0.154	0.000	-0.052	-0.170	11011	1.01	38451.8014	44044
4456	5.934	-0.148	0.000	-0.057	-0.126	11011	1.17	38451.9153	44044
4456	6.056	-0.081	0.000	-0.039	-0.204	11011	3.04	38452.6118	44044
4456	5.944	-0.135	0.000	-0.067	-0.194	11011	1.11	38452.7444	44044
4456	5.918	-0.155	0.000	-0.051	-0.184	11011	1.00	38452.8292	44044
4456	5.890	-0.174	0.000	-0.045	-0.178	11011	1.27	38452.9306	44044
4456	6.054	-0.102	0.000	-0.044	-0.142	11011	2.00	38453.6417	44044
4456	5.900	-0.190	0.000	-0.037	-0.167	11011	1.01	38453.7910	44044
4456	5.919	-0.158	0.000	-0.069	-0.181	11011	2.71	38455.6111	44044
4456	5.945	-0.169	0.000	-0.088	-0.153	11011	1.00	38455.8069	44044
4456	5.997	-0.175	0.000	-0.017	-0.166	11011	1.14	38455.8944	44044
4456	5.981	-0.128	0.000	-0.081	-0.205	11011	1.10	38505.6028	44044
4456	5.893	-0.193	0.000	-0.073	-0.169	11011	1.14	38505.7604	44044
4456	5.925	-0.196	0.000	-0.078	-0.151	11011	2.73	38505.8771	44044
4456	5.952	-0.146	0.000	-0.098	-0.187	11011	1.00	38529.6194	44044
4456	5.946	-0.160	0.000	-0.077	-0.162	11011	1.23	38529.7146	44044
4456	5.966	-0.147	0.000	-0.078	-0.186	11011	3.41	38529.8250	44044
4456	5.941	-0.155	0.000	-0.086	-0.172	11011	1.02	38530.6389	44044
4456	5.938	-0.140	0.000	-0.093	-0.168	11011	1.46	38530.7444	44044
4456	5.949	-0.162	0.000	-0.084	-0.186	11011	3.36	38530.8215	44044
4456	5.935	-0.177	0.000	-0.075	-0.203	11011	1.01	38531.5840	44044
4456	5.958	-0.143	0.000	-0.077	-0.169	11011	1.07	38531.6653	44044
4456	5.971	-0.185	0.000	-0.064	-0.175	11011	1.17	38532.6931	44044
4456	5.961	-0.177	0.000	-0.067	-0.180	11011	1.64	38532.7556	44044
4456	5.970	-0.152	0.000	-0.090	-0.180	11011	3.85	38532.8229	44044
4456	5.938	-0.144	0.000	-0.097	-0.166	11011	1.04	38533.6479	44044
4456	5.890	-0.157	0.000	-0.062	-0.186	11011	1.51	38707.9793	44044
4456	5.913	-0.115	-0.714	0.000	0.000	11100	4.23	38733.8250	44400
4456	5.926	-0.160	0.000	-0.067	-0.214	11011	1.51	38734.9053	44044
4456	5.942	-0.146	0.000	-0.075	-0.196	11011	1.10	38734.9761	44044
4456	5.905	-0.156	0.000	-0.091	-0.165	11011	1.05	38742.9722	44044
4456	5.905	-0.109	0.000	-0.088	-0.177	11011	1.58	38760.8278	44044
4456	5.942	-0.206	0.000	-0.021	-0.172	11011	1.00	38760.9783	44044
4456	5.913	-0.123	0.000	-0.044	-0.191	11011	1.55	38761.8285	44044
4456	5.889	-0.160	0.000	-0.051	-0.194	11011	1.00	38761.9843	44044
4456	5.919	-0.128	0.000	-0.065	-0.197	11011	1.58	38762.8228	44044
4456	5.921	-0.168	0.000	-0.043	-0.155	11011	1.00	38762.9775	44044
4456	5.877	-0.175	0.000	-0.063	-0.165	11011	1.00	38763.9774	22022
4456	5.884	-0.209	0.000	-0.044	-0.173	11011	1.01	38764.9383	44044
4456	5.949	-0.161	0.000	-0.061	-0.208	11011	2.56	38773.7442	44044
4456	5.938	-0.133	0.000	-0.045	-0.199	11011	1.58	38773.7929	44044
4456	5.896	-0.085	0.000	-0.088	-0.177	11011	1.20	38773.8428	44044
4456	5.950	-0.157	0.000	-0.030	-0.204	11011	1.52	38774.7956	44044
4456	5.960	-0.149	-0.647	0.000	0.000	11100	2.35	38786.7153	44400
4456	5.961	-0.131	0.000	-0.060	-0.179	11011	1.28	38790.7814	44044
4456	5.904	-0.138	0.000	-0.056	-0.231	11011	1.81	38791.7265	44044
4456	5.932	-0.169	-0.663	0.000	0.000	11100	1.00	38812.8207	44400
4456	5.960	-0.160	0.000	-0.030	-0.199	11011	1.00	38814.8307	22022
4456	5.937	-0.174	0.000	-0.061	-0.207	11011	1.48	38815.6876	44044
4456	5.935	-0.155	0.000	-0.053	-0.173	11011	1.00	38815.8340	44044
4456	5.932	-0.139	0.000	-0.062	-0.162	11011	1.46	38815.9626	44044
4456	5.902	-0.169	0.000	-0.038	-0.188	11011	1.31	38816.7057	22022
4456	5.864	-0.168	0.000	-0.047	-0.169	11011	1.00	38816.8300	22022
4456	5.907	-0.148	0.000	-0.049	-0.148	11011	1.29	38816.9383	22022
4456	5.974	-0.176	0.000	-0.037	-0.208	11011	1.42	38817.6883	22022
4456	5.918	-0.143	0.000	-0.061	-0.200	11011	1.74	38818.6571	44044
4456	5.915	-0.152	0.000	-0.084	-0.169	11011	1.31	38818.7007	44044
4456	5.978	-0.124	0.000	-0.057	-0.198	11011	1.66	38819.6606	22022
4456	5.891	-0.159	0.000	-0.079	-0.199	11011	1.15	38819.7281	22022
4456	5.944	-0.164	0.000	-0.035	-0.169	11011	1.02	38819.7821	22022
4456	5.977	-0.150	0.000	-0.038	-0.165	11011	1.00	38819.8126	22022
4456	5.936	-0.199	0.000	-0.033	-0.162	11011	1.12	38819.8930	22022

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4456	5.910	-0.180	0.000	-0.069	-0.157	11011	1.44	38819.9494	22022
4456	5.871	-0.167	0.000	-0.063	-0.197	11011	1.36	38820.6883	22022
4456	5.941	-0.144	0.000	-0.083	-0.177	11011	1.25	38822.6994	44044
4456	5.946	-0.143	0.000	-0.059	-0.161	11011	1.00	38822.8203	44044
4456	5.937	-0.143	0.000	-0.075	-0.144	11011	2.17	38822.9911	44044
4456	5.924	-0.162	0.000	-0.170	-0.133	11011	1.30	38823.6889	44044
4456	5.974	-0.140	0.000	-0.061	-0.170	11011	1.00	38823.8050	44044
4456	5.981	-0.151	0.000	-0.041	-0.130	11011	1.48	38823.9439	44044
4456	5.982	-0.112	0.000	-0.065	-0.164	11011	1.42	38824.6696	44044
4456	5.927	-0.178	0.000	-0.051	-0.183	11011	1.00	38824.8076	44044
4456	5.966	-0.166	0.000	-0.038	-0.185	11011	1.37	38825.6731	44044
4456	5.922	-0.171	0.000	-0.065	-0.147	11011	1.00	38825.7993	44044
4456	5.961	-0.119	0.000	-0.067	-0.198	11011	1.69	38827.6362	44044
4456	5.956	-0.199	0.000	-0.043	-0.192	11011	1.01	38827.7727	44044
4456	5.913	-0.154	0.000	-0.076	-0.167	11011	1.23	38827.8981	44044
4456	5.903	-0.183	0.000	-0.067	-0.160	11011	1.99	38827.9689	44044
4456	5.999	-0.134	0.000	-0.063	-0.190	11011	1.00	38835.7564	44044
4456	5.932	-0.158	0.000	-0.068	-0.176	11011	1.08	38835.8376	44044
4456	5.894	-0.132	0.000	-0.083	-0.218	11011	1.53	38836.6251	44044
4456	6.052	-0.123	0.000	-0.038	-0.145	11011	1.00	38836.7724	44044
4456	5.994	-0.185	0.000	-0.043	-0.157	11011	1.19	38836.8654	44044
4456	5.837	-0.210	0.000	-0.088	-0.163	11011	1.90	38836.9397	44044
4456	5.958	-0.148	0.000	-0.046	-0.177	11011	1.00	38837.7717	44044
4456	5.944	-0.180	0.000	-0.050	-0.156	11011	1.18	38837.8607	44044
4456	5.953	-0.161	0.000	-0.037	-0.176	11011	1.00	38838.7653	44044
4456	5.912	-0.123	0.000	-0.023	-0.167	11011	1.00	38839.7522	44044
4456	5.942	-0.147	0.000	-0.095	-0.150	11011	1.00	38841.7537	44044
4456	5.984	-0.151	0.000	-0.027	-0.129	11011	2.30	38841.9439	44044
4456	5.904	-0.155	0.000	-0.095	-0.156	11011	1.00	38842.7515	44044
4456	6.054	-0.164	0.000	-0.015	-0.135	11011	1.97	38842.9272	44044
4456	5.950	-0.200	-0.627	0.000	0.000	11100	1.01	38844.7727	44400
4456	6.049	-0.143	-0.660	0.000	0.000	11100	1.22	38844.8484	44400
4456	6.086	-0.129	-0.632	0.000	0.000	11100	1.68	38844.9035	44400
4456	6.067	-0.132	-0.646	0.000	0.000	11100	1.01	38845.7658	44400
4456	6.024	-0.158	-0.655	0.000	0.000	11100	1.14	38845.8270	44400
4456	6.045	-0.247	-0.591	0.000	0.000	11100	2.52	38845.9402	44400
4456	5.912	-0.184	-0.645	0.000	0.000	11100	1.06	38873.6104	44400
4456	5.993	-0.174	-0.677	0.000	0.000	11100	1.03	38873.7104	44400
4456	5.957	-0.152	-0.602	0.000	0.000	11100	1.49	38873.8083	44400
4456	5.950	-0.160	-0.640	0.000	0.000	11100	1.00	38874.6771	22200
4494	4.746	-0.062	0.000	0.007	-0.052	11011	1.68	38099.7910	44044
4494	4.725	-0.055	0.000	0.000	-0.044	11011	1.68	38107.7715	44044
4494	4.705	-0.066	0.000	-0.004	-0.046	11011	1.68	38112.7604	44044
4494	4.755	-0.114	0.000	0.050	-0.071	11011	1.79	38455.7674	44044
4546	4.518	1.295	0.000	0.958	0.667	11011	2.27	38099.7965	44044
4546	4.470	1.317	0.000	0.900	0.707	11011	2.27	38107.7785	44044
4546	4.498	1.268	0.000	0.952	0.669	11011	2.27	38112.7667	44044
4546	4.429	1.305	0.000	0.952	0.653	11011	2.32	38453.8028	44044
4546	4.472	1.323	0.000	0.943	0.645	11011	2.43	38455.7757	44044
4550	6.428	0.785	0.000	0.653	0.427	11011	1.06	38114.7569	44044
4550	6.411	0.771	0.000	0.652	0.437	11011	1.10	38114.8111	44044
4550	6.440	0.789	0.000	0.674	0.417	11011	1.09	38115.7118	22022
4550	6.328	0.768	0.000	0.688	0.437	11011	1.16	38115.8333	22022
4550	6.453	0.733	0.000	0.644	0.408	11011	1.23	38118.6500	44043
4550	6.383	0.777	0.000	0.636	0.408	11011	1.10	38118.7000	44043
4550	6.505	0.735	0.000	0.691	0.469	11011	1.08	38118.7833	44043
4550	6.476	0.750	0.000	0.671	0.464	11011	1.30	38118.8597	44043
4550	6.432	0.764	0.000	0.658	0.449	11011	1.84	38118.9215	44043
4550	6.458	0.762	0.000	0.691	0.408	11011	1.15	38129.6458	22021
4550	6.446	0.794	0.000	0.632	0.451	11011	1.06	38129.7167	22021
4550	6.446	0.699	0.000	0.657	0.462	11011	1.20	38129.8062	22021
4550	6.471	0.747	0.000	0.669	0.425	11011	1.07	38130.7451	22021
4550	6.429	0.757	0.000	0.651	0.458	11011	1.61	38130.8694	22021
4550	6.448	0.769	0.000	0.647	0.436	11011	1.06	38131.7201	44043
4550	6.461	0.734	0.000	0.665	0.456	11011	1.23	38131.8083	44043
4550	6.441	0.752	0.000	0.668	0.452	11011	2.08	38131.9007	44043
4550	6.556	0.756	0.000	0.679	0.437	11011	1.12	38132.6500	22021
4550	6.344	0.748	0.000	0.641	0.469	11011	1.41	38132.8392	22021
4550	6.534	0.776	0.000	0.650	0.439	11011	1.12	38133.6458	44044
4550	6.467	0.734	0.000	0.649	0.438	11011	1.11	38133.7597	44044
4550	6.412	0.770	0.000	0.651	0.463	11011	2.31	38133.9062	44044
4550	6.450	0.752	0.000	0.660	0.443	11011	1.09	38134.6583	22021
4550	6.450	0.752	0.000	0.660	0.449	11011	1.23	38135.6049	22021
4550	6.493	0.724	0.000	0.639	0.437	11011	1.07	38136.6764	44044
4550	6.495	0.780	0.000	0.679	0.469	11011	1.16	38136.7736	44044
4550	6.465	0.775	0.000	0.676	0.441	11011	2.08	38136.8868	44044
4550	6.555	0.773	0.151	0.000	0.000	11100	1.11	38166.6722	44400
4550	6.561	0.763	0.188	0.000	0.000	11100	1.25	38166.7187	44400
4550	6.477	0.758	0.169	0.000	0.000	11100	1.13	38170.6698	22200
4550	6.565	0.770	0.214	0.000	0.000	11100	1.45	38170.7410	22200
4550	6.722	0.833	0.240	0.000	0.000	11100	1.50	38171.7451	22200
4550	6.495	0.736	0.166	0.000	0.000	11100	1.06	38173.6062	22200
4550	6.469	0.751	0.182	0.000	0.000	11100	1.20	38173.6861	22200
4550	6.426	0.718	0.197	0.000	0.000	11100	1.06	38174.5757	22200
4550	6.484	0.764	0.153	0.000	0.000	11100	1.09	38174.6382	22200
4550	6.493	0.770	0.198	0.000	0.000	11100	1.31	38174.7076	22200
4550	6.504	0.775	0.213	0.000	0.000	11100	1.48	38174.7347	22200
4550	6.338	0.731	0.000	0.000	0.000	11000	1.07	38176.6146	12000
4550	6.474	0.774	0.000	0.000	0.000	11000	1.41	38176.7201	12000
4550	6.345	0.763	0.120	0.000	0.000	11100	1.10	38177.6368	11100
4550	6.555	0.736	0.220	0.000	0.000	11100	1.74	38177.7528	11100
4550	6.540	0.747	0.155	0.000	0.000	11100	1.08	38178.6194	22200
4550	6.550	0.766	0.227	0.000	0.000	11100	1.69	38178.7458	22200
4550	6.714	0.725	0.108	0.000	0.000	11100	1.06	38179.5806	44400
4550	6.464	0.741	0.190	0.000	0.000	11100	1.39	38179.7090	44400
4550	6.454	0.751	0.146	0.000	0.000	11100	1.95	38179.7614	44400
4550	6.490	0.781	0.174	0.000	0.000	11100	1.14	38180.6486	44400
4550	6.342	0.782	0.169	0.000	0.000	11100	1.76	38180.7458	44400
4550	6.448	0.764	0.000	0.654	0.460	11011	1.33	38197.6500	44044
4550	6.445	0.755	0.000	0.663	0.441	11011	1.72	38197.6965	44044
4550	6.415	0.744	0.000	0.660	0.412	11011	1.35	38354.9792	44044
4550	6.416	0.757	0.000	0.665	0.436	11011	1.37	38355.9729	44044
4550	6.377	0.734	0.000	0.656	0.404	11011	1.53	38384.8722	22022
4550	6.363	0.767	0.000	0.628	0.430	11011	1.19	38388.9229	44044
4550	6.387	0.765	0.000	0.644	0.495	11011	1.15	38389.9343	44044
4550	6.391	0.757	0.000	0.671	0.495	11011	1.06	38389.9924	44044
4550	6.397	0.792	0.000	0.642	0.415	11011	1.09	38390.9590	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4550	6.456	0.759	0.000	0.682	0.435	11011	1.21	38407.8646	44044
4550	6.407	0.766	0.000	0.631	0.449	11011	1.06	38413.9319	44044
4550	6.458	0.748	0.000	0.675	0.465	11011	1.13	38414.0021	44044
4550	6.473	0.763	0.000	0.685	0.422	11011	1.39	38417.8014	22022
4550	6.366	0.754	0.000	0.632	0.421	11011	1.89	38431.7132	44044
4550	6.447	0.790	0.000	0.684	0.435	11011	1.09	38431.8458	44044
4550	6.431	0.737	0.000	0.692	0.446	11011	1.57	38432.7375	44044
4550	6.436	0.749	0.000	0.676	0.454	11011	1.14	38432.8174	44044
4550	6.441	0.758	0.000	0.667	0.458	11011	1.09	38432.8417	44044
4550	6.440	0.754	0.000	0.690	0.458	11011	1.06	38437.8701	22022
4550	6.438	0.761	0.000	0.654	0.454	11011	1.06	38438.8653	44044
4550	6.443	0.747	0.000	0.685	0.471	11011	1.25	38438.9715	44044
4550	6.397	0.766	0.000	0.653	0.438	11011	1.11	38439.8139	44044
4550	6.401	0.749	0.000	0.657	0.453	11011	1.06	38439.8833	44044
4550	6.481	0.710	0.000	0.690	0.443	11011	1.06	38440.8611	44044
4550	6.436	0.797	0.000	0.647	0.464	11011	1.16	38440.9417	44044
4550	6.441	0.787	0.000	0.647	0.461	11011	1.55	38441.0132	44044
4550	6.453	0.762	0.000	0.674	0.455	11011	1.12	38441.9243	44044
4550	6.455	0.779	0.000	0.650	0.450	11011	1.06	38442.8542	44044
4550	6.414	0.728	0.000	0.666	0.465	11011	1.15	38442.9333	44044
4550	6.407	0.748	0.000	0.661	0.452	11011	1.43	38442.9931	44044
4550	6.455	0.782	0.000	0.656	0.408	11011	1.57	38443.7069	44044
4550	6.435	0.741	0.000	0.665	0.436	11011	1.06	38443.8549	44044
4550	6.425	0.750	0.000	0.666	0.463	11011	1.18	38443.9396	44044
4550	6.427	0.732	0.000	0.672	0.479	11011	1.45	38443.9937	44044
4550	6.418	0.774	0.000	0.664	0.440	11011	1.06	38444.8382	44044
4550	6.349	0.768	0.000	0.652	0.433	11011	1.06	38445.8368	44044
4550	6.414	0.746	0.000	0.678	0.437	11011	1.06	38446.8500	44044
4550	6.411	0.750	0.000	0.652	0.421	11011	1.35	38447.7264	44044
4550	6.419	0.751	0.000	0.679	0.443	11011	1.06	38447.8354	44044
4550	6.444	0.780	0.000	0.665	0.436	11011	2.06	38449.6535	44044
4550	6.459	0.730	0.000	0.675	0.458	11011	1.06	38449.8465	44044
4550	6.449	0.771	0.000	0.670	0.406	11011	1.46	38450.7007	44044
4550	6.422	0.760	0.000	0.660	0.455	11011	1.06	38450.8174	44044
4550	6.449	0.756	0.000	0.681	0.476	11011	1.16	38450.9146	44044
4550	6.443	0.761	0.000	0.676	0.499	11011	1.30	38450.9507	44044
4550	6.514	0.798	0.000	0.651	0.460	11011	3.25	38451.6083	44044
4550	6.466	0.770	0.000	0.655	0.420	11011	1.37	38451.7111	44044
4550	6.404	0.775	0.000	0.631	0.450	11011	1.07	38451.8069	44044
4550	6.410	0.743	0.000	0.662	0.469	11011	1.19	38451.9201	44044
4550	6.592	0.806	0.000	0.715	0.444	11011	2.79	38452.6167	44044
4550	6.416	0.761	0.000	0.674	0.399	11011	1.18	38452.7507	44044
4550	6.439	0.755	0.000	0.688	0.431	11011	1.06	38452.8354	44044
4550	6.370	0.758	0.000	0.662	0.473	11011	1.26	38452.9354	44044
4550	6.559	0.839	0.000	0.697	0.446	11011	1.98	38453.6472	44044
4550	6.405	0.715	0.000	0.701	0.435	11011	1.08	38453.7958	44044
4550	6.428	0.764	0.000	0.648	0.460	11011	2.53	38455.6167	44044
4550	6.463	0.731	0.000	0.681	0.453	11011	1.06	38455.8125	44044
4550	6.459	0.767	0.000	0.666	0.474	11011	1.16	38455.8993	44044
4550	6.472	0.787	0.000	0.673	0.429	11011	1.17	38505.6083	44044
4550	6.391	0.756	0.000	0.640	0.463	11011	1.17	38505.7674	44044
4550	6.450	0.736	0.000	0.670	0.488	11011	2.21	38505.8833	44044
4550	6.469	0.794	0.000	0.635	0.451	11011	1.06	38529.6271	44044
4550	6.472	0.750	0.000	0.678	0.468	11011	1.19	38529.7069	44044
4550	6.431	0.738	0.000	0.672	0.470	11011	2.51	38529.8299	44044
4550	6.475	0.750	0.000	0.662	0.433	11011	1.07	38530.6444	44044
4550	6.455	0.791	0.000	0.638	0.464	11011	1.34	38530.7389	44044
4550	6.456	0.764	0.000	0.689	0.444	11011	2.55	38530.8285	44044
4550	6.434	0.745	0.000	0.661	0.444	11011	1.07	38531.5910	44044
4550	6.466	0.767	0.000	0.673	0.460	11011	1.11	38531.6701	44044
4550	6.436	0.758	0.000	0.639	0.462	11011	1.21	38532.7069	44044
4550	6.458	0.742	0.000	0.677	0.441	11011	1.54	38532.7611	44044
4550	6.412	0.755	0.000	0.691	0.422	11011	2.75	38532.8292	44044
4550	6.502	0.761	0.000	0.686	0.476	11011	1.09	38533.6549	44044
4550	6.467	0.748	0.000	0.670	0.461	11011	2.98	38533.8326	44044
4550	6.355	0.747	0.000	0.625	0.443	11011	1.54	38707.9864	44044
4550	6.452	0.755	0.132	0.000	0.000	11100	3.60	38733.8292	44400
4550	6.438	0.750	0.000	0.661	0.444	11011	1.57	38734.9099	44044
4550	6.433	0.799	0.000	0.634	0.444	11011	1.20	38734.9711	44044
4550	6.456	0.743	0.000	0.676	0.440	11011	1.12	38742.9774	44044
4550	6.392	0.801	0.000	0.628	0.470	11011	1.63	38760.8329	44044
4550	6.409	0.741	0.000	0.683	0.433	11011	1.06	38760.9740	44044
4550	6.402	0.789	0.000	0.631	0.438	11011	1.71	38761.8229	44044
4550	6.406	0.736	0.000	0.683	0.440	11011	1.06	38761.9886	44044
4550	6.380	0.789	0.000	0.622	0.408	11011	1.75	38762.8168	44044
4550	6.383	0.802	0.000	0.611	0.456	11011	1.06	38762.9825	44044
4550	6.383	0.738	0.000	0.669	0.456	11011	1.06	38763.9825	22022
4550	6.360	0.744	0.000	0.653	0.429	11011	1.09	38764.9333	44044
4550	6.431	0.757	0.000	0.658	0.412	11011	2.47	38773.7479	44044
4550	6.436	0.778	0.000	0.662	0.425	11011	1.74	38773.7875	44044
4550	6.405	0.811	0.000	0.619	0.461	11011	1.27	38773.8471	44044
4550	6.394	0.775	0.000	0.654	0.419	11011	1.57	38774.8006	44044
4550	6.482	0.748	0.180	0.000	0.000	11100	2.24	38786.7215	44400
4550	6.464	0.764	0.180	0.000	0.000	11100	1.18	38786.8347	44400
4550	6.420	0.766	0.000	0.622	0.432	11011	1.35	38790.7862	44044
4550	6.425	0.770	0.000	0.666	0.419	11011	1.97	38791.7224	44044
4550	6.448	0.743	0.151	0.000	0.000	11100	1.07	38812.8160	44400
4550	6.400	0.769	0.000	0.638	0.457	11011	1.68	38814.6807	22022
4550	6.456	0.750	0.000	0.685	0.446	11011	1.06	38814.8347	22022
4550	6.428	0.753	0.000	0.659	0.425	11011	1.63	38815.6828	44044
4550	6.436	0.758	0.000	0.681	0.463	11011	1.06	38815.8606	44044
4550	6.442	0.721	0.000	0.640	0.500	11011	1.39	38815.9667	44044
4550	6.374	0.741	0.000	0.643	0.443	11011	1.44	38816.7010	22022
4550	6.381	0.704	0.000	0.668	0.464	11011	1.06	38816.8424	22022
4550	6.387	0.758	0.000	0.631	0.493	11011	1.28	38816.9432	22022
4550	6.443	0.760	0.000	0.650	0.422	11011	1.57	38817.6836	22022
4550	6.363	0.768	0.000	0.636	0.438	11011	1.93	38818.6510	44044
4550	6.381	0.760	0.000	0.632	0.443	11011	1.30	38818.7050	44044
4550	6.462	0.797	0.000	0.625	0.441	11011	1.71	38819.6647	22022
4550	6.424	0.715	0.000	0.654	0.450	11011	1.26	38819.7237	22022
4550	6.425	0.747	0.000	0.661	0.442	11011	1.10	38819.7779	22022
4550	6.420	0.789	0.000	0.639	0.443	11011	1.06	38819.8217	22022
4550	6.413	0.715	0.000	0.671	0.468	11011	1.14	38819.8974	22022
4550	6.416	0.742	0.000	0.651	0.479	11011	1.38	38819.9536	22022
4550	6.347	0.733	0.000	0.639	0.440	11011	1.43	38820.6925	22022
4550	6.442	0.756	0.000	0.648	0.445	11011	1.38	38822.6942	44044
4550	6.442	0.756	0.000	0.648	0.445	11011	1.38	38822.6942	44044
4550	6.450	0.763	0.000	0.643	0.460	11011	1.06	38822.8244	44044
4550	6.429	0.785	0.000	0.639	0.478	11011	1.74	38822.9862	44044
4550	6.421	0.755	0.000	0.666	0.428	11011	1.42	38823.6849	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4550	6.459	0.762	0.000	0.642	0.468	11011	1.06	38823.8175	44044
4550	6.446	0.753	0.000	0.669	0.495	11011	1.41	38823.9481	44044
4550	6.514	0.809	0.000	0.662	0.459	11011	1.55	38824.6660	44044
4550	6.444	0.746	0.000	0.656	0.464	11011	1.06	38824.8118	44044
4550	6.479	0.729	0.000	0.647	0.488	11011	1.50	38825.6689	44044
4550	6.407	0.730	0.000	0.632	0.452	11011	1.06	38825.8133	44044
4550	6.438	0.822	0.000	0.628	0.430	11011	1.74	38827.6404	44044
4550	6.445	0.753	0.000	0.640	0.458	11011	1.06	38827.7862	44044
4550	6.410	0.734	0.000	0.639	0.451	11011	1.20	38827.8939	44044
4550	6.422	0.745	0.000	0.661	0.483	11011	1.65	38827.9640	44044
4550	6.456	0.790	0.000	0.647	0.444	11011	1.06	38835.7807	44044
4550	6.450	0.732	0.000	0.652	0.463	11011	1.10	38835.8333	44044
4550	6.397	0.761	0.000	0.656	0.444	11011	1.59	38836.6293	44044
4550	6.517	0.759	0.000	0.644	0.493	11011	1.06	38836.7821	44044
4550	6.520	0.743	0.000	0.685	0.473	11011	1.17	38836.8612	44044
4550	6.351	0.712	0.000	0.628	0.468	11011	1.60	38836.9349	44044
4550	6.453	0.757	0.000	0.673	0.457	11011	1.06	38837.7856	44044
4550	6.480	0.730	0.000	0.697	0.465	11011	1.19	38837.8654	44044
4550	6.470	0.757	0.000	0.675	0.456	11011	1.06	38838.7939	44044
4550	6.487	0.776	0.000	0.688	0.462	11011	1.06	38839.7703	44044
4550	6.466	0.780	0.000	0.665	0.462	11011	1.06	38841.7640	44044
4550	6.450	0.752	0.000	0.692	0.518	11011	2.30	38841.9668	44044
4550	6.465	0.707	0.000	0.690	0.465	11011	1.06	38842.7654	44044
4550	6.530	0.767	0.000	0.690	0.513	11011	1.64	38842.9224	44044
4550	6.475	0.736	0.160	0.000	0.000	11100	1.06	38844.7693	44400
4550	6.542	0.747	0.159	0.000	0.000	11100	1.19	38844.8450	44400
4550	6.614	0.766	0.168	0.000	0.000	11100	1.54	38844.9068	44400
4550	6.583	0.785	0.169	0.000	0.000	11100	1.06	38845.7616	44400
4550	6.556	0.749	0.143	0.000	0.000	11100	1.15	38845.8309	44400
4550	6.554	0.707	0.187	0.000	0.000	11100	1.93	38845.9367	44400
4550	6.385	0.748	0.196	0.000	0.000	11100	1.14	38873.6139	44400
4550	6.479	0.758	0.153	0.000	0.000	11100	1.08	38873.7146	44400
4550	6.416	0.753	0.140	0.000	0.000	11100	1.53	38873.8125	44400
4550	6.450	0.750	0.170	0.000	0.000	11100	1.06	38874.6806	22200
4552	4.320	-0.107	0.000	0.037	-0.083	11011	1.65	38099.8021	44044
4552	4.320	-0.077	0.000	0.017	-0.074	11011	1.65	38107.7840	44044
4552	4.293	-0.083	0.000	-0.027	-0.080	11011	1.65	38112.7729	44044
4552	4.319	-0.151	0.000	0.031	-0.058	11011	1.65	38449.8528	44044
4552	4.283	-0.083	0.000	0.008	-0.086	11011	1.76	38450.7889	44044
4552	4.254	-0.109	0.000	0.007	-0.104	11011	1.66	38452.8146	44044
4618	4.660	-0.069	0.000	-0.043	-0.155	11011	3.46	38505.6243	44044
4618	4.501	-0.146	0.000	-0.123	-0.184	11011	2.87	38529.6549	44044
4621	2.688	-0.041	0.000	0.084	-0.121	11011	3.37	38505.6299	44044
4621	2.613	-0.138	0.000	0.000	-0.120	11011	2.91	38529.6597	44044
4633	5.984	0.123	0.000	0.121	0.009	11011	1.01	38114.7840	44044
4633	6.045	0.106	0.000	0.137	0.015	11011	1.02	38130.7556	22021
4633	6.083	0.130	0.000	0.144	0.013	11011	1.06	38133.6639	44044
4633	6.013	0.120	0.000	0.091	0.047	11011	1.34	38136.8354	44044
4633	6.113	0.124	0.113	0.000	0.000	11100	1.04	38179.6312	44400
4633	6.026	0.105	0.000	0.132	0.070	11011	1.03	38814.8899	22022
4638	4.135	-0.075	0.000	-0.060	-0.129	11011	3.61	38505.6354	44044
4638	3.987	-0.153	0.000	-0.117	-0.201	11011	3.16	38529.6646	44044
4638	4.016	-0.168	0.000	-0.098	-0.228	11011	3.17	38530.6625	44044
4638	3.937	-0.148	0.000	-0.111	-0.088	11011	3.11	38531.6125	44044
4662	2.653	-0.077	0.000	-0.014	-0.086	11011	1.24	38096.8299	22022
4662	2.620	-0.087	0.000	-0.038	-0.081	11011	1.28	38099.7785	44044
4662	2.582	-0.109	0.000	0.002	-0.119	11011	1.38	38103.7354	44044
4662	2.649	-0.096	0.000	-0.021	-0.097	11011	1.76	38107.6750	44044
4662	2.585	-0.093	0.000	-0.024	-0.098	11011	1.38	38107.8604	44044
4662	2.561	-0.091	0.000	-0.031	-0.111	11011	1.26	38112.8083	44044
4662	2.575	-0.091	0.000	-0.013	-0.091	11011	1.25	38113.7639	44044
4662	2.559	-0.087	0.000	-0.058	-0.047	11011	1.29	38114.8139	44044
4662	2.655	-0.109	0.000	-0.004	-0.124	11011	3.18	38121.5806	44044
4662	2.599	-0.090	0.000	-0.010	-0.100	11011	1.27	38121.7222	44044
4662	2.641	-0.082	-0.362	0.000	0.000	11100	1.30	38166.6771	44400
4662	2.680	-0.105	-0.230	0.000	0.000	11100	1.70	38173.7264	22200
4662	2.636	-0.131	-0.381	0.000	0.000	11100	2.31	38179.7472	44400
4684	6.398	0.169	0.000	0.159	0.048	11011	1.02	38115.7528	22022
4684	6.461	0.157	0.000	0.166	0.054	11011	1.06	38130.7896	22021
4684	6.524	0.097	0.000	0.190	0.062	11011	1.04	38133.7694	44044
4684	6.554	0.173	0.101	0.000	0.000	11100	1.17	38170.7153	22200
4684	6.505	0.201	0.092	0.000	0.000	11100	1.06	38179.6549	44400
4684	6.482	0.153	0.000	0.174	0.097	11011	1.05	38814.9071	22022
4685	6.174	0.195	0.000	0.143	-0.003	11011	1.01	38115.7576	22022
4685	6.257	0.158	0.000	0.116	0.009	11011	1.07	38130.7944	22021
4685	6.265	0.135	0.000	0.122	0.019	11011	1.05	38133.7743	44044
4685	6.311	0.194	0.174	0.000	0.000	11100	1.18	38170.7187	22200
4685	6.293	0.199	0.151	0.000	0.000	11100	1.09	38179.6667	44400
4685	6.240	0.189	0.000	0.118	0.059	11011	1.06	38815.9153	44044
4694	6.215	0.308	0.000	0.310	0.139	11011	1.01	38129.7326	22021
4694	6.149	0.316	0.000	0.246	0.150	11011	1.50	38131.8750	44043
4694	6.176	0.318	0.000	0.283	0.118	11011	1.04	38136.7597	44044
4694	6.139	0.308	0.077	0.000	0.000	11100	1.30	38178.7201	22200
4705	6.205	-0.010	0.000	0.018	-0.051	11011	1.01	38129.7514	22021
4705	6.209	-0.006	0.000	0.008	-0.036	11011	1.52	38131.8785	44043
4705	6.190	0.012	0.000	-0.012	-0.040	11011	1.11	38136.7951	44044
4705	6.005	-0.045	-0.062	0.000	0.000	01100	1.13	38177.6889	11100
4705	6.384	0.008	-0.034	0.000	0.000	01100	1.01	38179.5993	44400
4705	6.178	0.011	0.000	-0.001	-0.012	11011	1.09	38815.9279	44044
4707	4.750	0.485	0.000	0.491	0.323	11011	1.03	38115.8111	22022
4707	4.782	0.497	0.000	0.439	0.321	11011	1.26	38130.8458	22021
4707	4.768	0.496	0.000	0.419	0.335	11011	1.25	38133.8361	44044
4707	4.805	0.439	0.000	0.437	0.346	11011	1.32	38136.8403	44044
4707	4.796	0.492	0.261	0.000	0.000	11100	1.02	38173.6458	22200
4707	4.822	0.526	0.287	0.000	0.000	11100	1.07	38180.6597	44400
4707	4.774	0.507	0.000	0.460	0.353	11011	1.10	38815.9321	44044
4717	5.123	0.058	0.000	0.057	-0.027	11011	1.13	38118.6896	44043
4717	5.186	0.106	0.000	0.086	0.017	11011	1.01	38131.7528	44043

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4717	5.164	0.072	0.000	0.061	0.045	11011	1.54	38133.8764	44044
4717	5.163	0.069	0.000	0.079	0.023	11011	1.34	38136.8451	44044
4717	5.116	0.084	0.083	0.000	0.000	11100	1.06	38173.6708	22200
4717	5.136	0.102	0.118	0.000	0.000	11100	1.16	38180.6903	44400
4717	5.147	0.076	0.000	0.081	0.038	11011	1.13	38815.9403	44044
4719	6.338	0.249	0.000	0.212	0.067	11011	1.11	38118.6938	44043
4719	6.464	0.255	0.000	0.275	0.071	11011	1.02	38131.7576	44043
4719	6.398	0.253	0.000	0.190	0.141	11011	1.58	38133.8806	44044
4719	6.384	0.299	0.044	0.000	0.000	11100	1.06	38173.6757	22200
4719	6.364	0.301	0.099	0.000	0.000	11100	1.18	38180.6937	44400
4719	6.381	0.287	0.000	0.221	0.144	11011	1.14	38815.9437	44044
4725	6.027	1.088	0.000	0.799	0.545	11011	1.06	38819.7953	22022
4725	6.048	1.119	0.000	0.778	0.565	11011	1.02	38823.8133	44044
4725	6.040	1.069	0.000	0.793	0.596	11011	1.07	38824.8960	44044
4725	5.994	1.058	0.000	0.783	0.553	11011	1.01	38825.8460	44044
4732	4.802	-0.174	0.000	-0.116	-0.170	11011	2.99	38529.6694	44044
4732	4.862	-0.152	0.000	-0.101	-0.210	11011	3.01	38530.6694	44044
4732	4.794	-0.159	0.000	-0.124	-0.066	11011	2.99	38531.6174	44044
4733	4.899	0.242	0.000	0.245	0.124	11011	1.03	38118.7354	44043
4733	4.957	0.243	0.000	0.277	0.153	11011	1.05	38131.7840	44043
4733	4.889	0.223	0.000	0.249	0.139	11011	1.03	38134.6931	22021
4733	4.914	0.242	0.000	0.227	0.150	11011	1.37	38136.8500	44044
4733	4.799	0.257	0.177	0.000	0.000	11100	1.35	38177.7361	11100
4733	4.906	0.260	0.000	0.267	0.171	11011	1.15	38815.9474	44044
4738	4.948	0.082	0.000	0.073	0.005	11011	1.03	38118.7396	44043
4738	0.000	-0.005	0.000	0.128	0.025	00011	1.06	38131.7889	44043
4738	4.914	0.074	0.000	0.054	0.017	11011	1.03	38134.6972	22021
4738	4.976	0.084	0.000	0.081	0.018	11011	1.40	38136.8542	44044
4738	4.944	0.068	0.123	0.000	0.000	01100	1.38	38177.7396	11100
4738	4.951	0.101	0.000	0.090	0.048	11011	1.16	38815.9514	44044
4743	3.938	-0.226	0.000	-0.079	-0.179	11011	2.80	38099.8076	44044
4743	3.902	-0.174	0.000	-0.115	-0.156	11011	2.78	38107.7937	44044
4743	3.916	-0.192	0.000	-0.114	-0.172	11011	2.78	38112.7799	44044
4743	3.889	-0.178	0.000	-0.099	-0.201	11011	2.99	38453.8076	44044
4743	3.956	-0.161	0.000	-0.078	-0.181	11011	3.26	38455.7812	44044
4743	3.894	-0.209	0.000	-0.137	-0.239	11011	2.84	38529.6736	44044
4743	3.966	-0.207	0.000	-0.155	-0.235	11011	2.86	38530.6736	44044
4750	6.551	0.171	0.000	0.173	0.083	11011	1.01	38118.7729	44043
4750	6.517	0.183	0.000	0.139	0.085	11011	1.17	38131.8278	44043
4750	6.524	0.163	0.000	0.105	0.110	11011	1.21	38135.6250	22021
4750	6.524	0.177	0.079	0.000	0.000	11100	1.03	38178.6431	22200
4750	6.482	0.175	0.000	0.183	0.075	11011	1.05	38816.9106	22022
4751	6.605	0.215	0.000	0.134	0.049	11011	1.01	38114.7792	44044
4751	6.645	0.220	0.000	0.177	0.083	11011	1.02	38118.7937	44043
4751	6.582	0.195	0.000	0.095	0.065	11011	1.06	38129.7958	22021
4751	6.636	0.223	0.000	0.163	0.093	11011	1.31	38131.8562	44043
4751	6.586	0.206	0.000	0.083	0.107	11011	1.01	38133.7424	44044
4751	6.630	0.219	0.000	0.173	0.109	11011	1.65	38133.8896	44044
4751	6.633	0.208	0.000	0.175	0.076	11011	1.24	38135.6187	22021
4751	6.652	0.212	0.000	0.173	0.076	11011	1.02	38136.6931	44044
4751	6.641	0.208	0.000	0.183	0.049	11011	1.04	38136.7687	44044
4751	6.628	0.189	0.000	0.163	0.072	11011	1.49	38136.8667	44044
4751	6.691	0.199	0.129	0.000	0.000	11100	1.08	38166.7062	44400
4751	6.609	0.222	0.091	0.000	0.000	11100	1.05	38170.6819	22200
4751	6.645	0.234	0.085	0.000	0.000	11100	1.21	38170.7326	22200
4751	6.630	0.207	0.065	0.000	0.000	11100	1.01	38173.6160	22200
4751	6.613	0.237	0.085	0.000	0.000	11100	1.07	38173.6792	22200
4751	6.664	0.217	0.095	0.000	0.000	11100	1.10	38174.6924	22200
4751	6.642	0.227	0.100	0.000	0.000	11100	1.13	38174.7007	22200
4751	6.478	0.182	0.030	0.000	0.000	11100	1.03	38177.6437	11100
4751	6.448	0.155	0.041	0.000	0.000	11100	1.09	38177.6799	11100
4751	6.465	0.177	0.051	0.000	0.000	11100	1.19	38177.7076	11100
4751	6.626	0.197	0.061	0.000	0.000	11100	1.40	38177.7437	11100
4751	6.682	0.222	0.071	0.000	0.000	11100	1.01	38178.6264	22200
4751	6.603	0.229	0.075	0.000	0.000	11100	1.05	38178.6590	22200
4751	6.618	0.203	0.077	0.000	0.000	11100	1.10	38178.6799	22200
4751	6.616	0.245	0.071	0.000	0.000	11100	1.19	38178.7056	22200
4751	6.650	0.228	0.098	0.000	0.000	11100	1.36	38178.7354	22200
4751	6.856	0.202	0.050	0.000	0.000	11100	1.01	38179.5910	44400
4751	6.721	0.246	0.093	0.000	0.000	11100	1.01	38179.6236	44400
4751	6.663	0.261	0.101	0.000	0.000	11100	1.06	38179.6618	44400
4751	6.625	0.237	0.101	0.000	0.000	11100	1.17	38179.6979	44400
4751	6.633	0.253	0.128	0.000	0.000	11100	1.06	38180.6562	44400
4751	6.615	0.237	0.104	0.000	0.000	11100	1.13	38180.6833	44400
4751	6.569	0.245	0.111	0.000	0.000	11100	1.25	38180.7125	44400
4751	6.552	0.255	0.103	0.000	0.000	11100	1.43	38180.7389	44400
4751	6.609	0.234	0.000	0.170	0.099	11011	1.17	38815.9549	44044
4751	6.688	0.213	0.000	0.168	0.097	11011	1.06	38816.9146	22022
4751	6.545	0.202	0.000	0.137	0.061	11011	1.48	38818.7133	44044
4751	6.628	0.245	0.000	0.158	0.101	11011	1.18	38823.9397	44044
4752	5.250	-0.031	0.000	0.032	-0.116	11011	1.15	38114.6948	44044
4752	5.237	-0.035	0.000	0.023	-0.113	11011	1.01	38114.7743	44044
4752	5.217	-0.023	0.000	0.018	-0.119	11011	1.06	38115.7250	22022
4752	5.224	-0.040	0.000	0.029	-0.095	11011	1.01	38115.7785	22022
4752	5.209	-0.042	0.000	0.050	-0.087	11011	1.04	38115.8208	22022
4752	5.268	-0.065	0.000	0.007	-0.140	11011	1.26	38118.6611	44043
4752	5.219	-0.053	0.000	-0.000	-0.107	11011	1.07	38118.7118	44043
4752	5.283	-0.034	0.000	0.018	-0.061	11011	1.01	38118.7882	44043
4752	5.281	-0.027	0.000	0.019	-0.058	11011	1.12	38118.8493	44043
4752	5.252	-0.059	0.000	0.058	-0.060	11011	1.44	38118.9097	44043
4752	5.234	-0.073	0.000	0.019	-0.116	11011	1.13	38129.6625	22021
4752	5.281	-0.066	0.000	0.026	-0.077	11011	1.01	38129.7243	22021
4752	5.263	-0.047	0.000	0.052	-0.089	11011	1.02	38129.7639	22021
4752	5.257	-0.055	0.000	0.019	-0.068	11011	1.07	38129.8014	22021
4752	5.271	-0.054	0.000	0.039	-0.099	11011	1.01	38130.7500	22021
4752	5.251	-0.049	0.000	0.027	-0.087	11011	1.04	38130.7847	22021
4752	5.263	-0.074	0.000	0.044	0.000	11010	1.15	38130.8250	22021
4752	5.260	-0.105	0.000	0.029	-0.075	11011	1.29	38130.8556	22021
4752	5.286	-0.035	0.000	0.045	-0.093	11011	1.01	38131.7250	44043
4752	5.302	-0.057	0.000	0.062	-0.081	11011	1.02	38131.7625	44043
4752	5.287	-0.052	0.000	0.050	-0.077	11011	1.09	38131.8035	44043

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4752	5.278	-0.058	0.000	0.032	-0.072	11011	1.13	38131.8187	44043
4752	5.283	-0.027	0.000	0.017	-0.056	11011	1.33	38131.8604	44043
4752	5.257	-0.036	0.000	0.009	-0.072	11011	1.56	38131.8875	44043
4752	5.309	-0.069	0.000	0.041	-0.124	11011	1.08	38132.6698	22021
4752	5.178	-0.114	0.000	-0.020	-0.125	11011	1.03	38132.6986	22021
4752	5.154	-0.101	0.000	-0.009	-0.141	11011	1.01	38132.7174	22021
4752	5.198	-0.100	0.000	0.004	-0.104	11011	1.01	38132.7347	22021
4752	5.206	-0.098	0.000	-0.024	-0.088	11011	1.01	38132.7500	22021
4752	5.276	-0.130	0.000	0.078	-0.089	11011	1.04	38132.7778	22021
4752	5.198	-0.065	0.000	-0.008	-0.077	11011	1.09	38132.8007	22021
4752	5.208	-0.066	0.000	0.008	-0.082	11011	1.15	38132.8222	22021
4752	5.348	-0.033	0.000	0.028	-0.096	11011	1.10	38133.6590	44044
4752	5.282	-0.062	0.000	0.029	-0.077	11011	1.03	38133.6924	44044
4752	5.219	-0.062	0.000	-0.025	-0.074	11011	1.01	38133.7472	44044
4752	5.274	-0.073	0.000	0.021	-0.071	11011	1.05	38133.7792	44044
4752	5.246	-0.071	0.000	0.012	-0.075	11011	1.12	38133.8083	44044
4752	5.241	-0.065	0.000	-0.009	-0.054	11011	1.30	38133.8500	44044
4752	5.266	-0.055	0.000	0.012	-0.031	11011	1.60	38133.8854	44044
4752	5.227	-0.058	0.000	0.040	-0.106	11011	1.07	38134.6687	22021
4752	5.220	-0.059	0.000	-0.008	-0.072	11011	1.04	38134.6882	22021
4752	5.219	-0.051	0.000	0.008	-0.048	11011	1.01	38134.7139	22021
4752	5.254	-0.022	0.000	0.026	-0.067	11011	1.26	38135.6153	22021
4752	5.241	-0.039	0.000	0.048	-0.084	11011	1.09	38135.6576	22021
4752	5.277	-0.045	0.000	0.020	-0.091	11011	1.03	38136.6889	44044
4752	5.257	-0.051	0.000	0.026	-0.083	11011	1.01	38136.7306	44044
4752	5.288	-0.034	0.000	0.031	-0.057	11011	1.04	38136.7646	44044
4752	5.277	-0.031	0.000	0.025	-0.083	11011	1.21	38136.8236	44044
4752	5.233	-0.017	0.000	-0.021	-0.085	11011	1.54	38136.8715	44044
4752	5.302	-0.048	-0.110	0.000	0.000	11100	1.08	38166.7028	44400
4752	5.353	-0.040	-0.086	0.000	0.000	11100	1.10	38166.7139	44400
4752	5.251	-0.036	-0.145	0.000	0.000	11100	1.05	38170.6778	22200
4752	5.276	-0.053	-0.130	0.000	0.000	11100	1.23	38170.7368	22200
4752	5.272	-0.074	-0.118	0.000	0.000	11100	1.01	38173.6125	22200
4752	5.266	-0.031	-0.105	0.000	0.000	11100	1.07	38173.6826	22200
4752	5.289	-0.050	-0.107	0.000	0.000	11100	1.09	38174.6882	22200
4752	5.282	-0.035	-0.108	0.000	0.000	11100	1.14	38174.7035	22200
4752	5.146	-0.087	-0.161	0.000	0.000	11100	1.02	38177.6410	11100
4752	5.082	-0.099	-0.164	0.000	0.000	11100	1.10	38177.6826	11100
4752	5.104	-0.103	-0.156	0.000	0.000	11100	1.17	38177.7035	11100
4752	5.272	-0.092	-0.031	0.000	0.000	11100	1.42	38177.7465	11100
4752	5.305	-0.050	-0.138	0.000	0.000	11100	1.01	38178.6236	22200
4752	5.250	-0.052	-0.136	0.000	0.000	11100	1.05	38178.6562	22200
4752	5.233	-0.034	-0.146	0.000	0.000	11100	1.11	38178.6833	22200
4752	5.234	-0.037	-0.111	0.000	0.000	11100	1.18	38178.7021	22200
4752	5.264	-0.037	-0.116	0.000	0.000	11100	1.38	38178.7389	22200
4752	5.479	-0.051	-0.146	0.000	0.000	11100	1.01	38179.5882	44400
4752	5.326	-0.029	-0.103	0.000	0.000	11100	1.01	38179.6264	44400
4752	5.319	-0.027	-0.094	0.000	0.000	11100	1.06	38179.6583	44400
4752	5.260	-0.027	-0.101	0.000	0.000	11100	1.18	38179.7014	44400
4752	5.281	-0.020	-0.113	0.000	0.000	11100	1.05	38180.6528	44400
4752	5.236	-0.028	-0.110	0.000	0.000	11100	1.14	38180.6861	44400
4752	5.207	-0.015	-0.111	0.000	0.000	11100	1.23	38180.7090	44400
4752	5.179	-0.031	-0.134	0.000	0.000	11100	1.45	38180.7424	44400
4752	5.250	-0.036	0.000	0.032	-0.051	11011	1.18	38815.9585	44044
4752	5.250	-0.062	0.000	0.049	-0.049	11011	1.07	38816.9181	22022
4752	5.196	-0.046	0.000	0.003	-0.114	11011	1.52	38818.7092	44044
4752	5.261	-0.033	0.000	0.024	-0.054	11011	1.20	38822.9437	44044
4766	5.457	0.053	0.000	0.068	-0.082	11011	1.13	38114.7042	44044
4766	5.450	0.072	0.000	0.069	-0.012	11011	1.30	38118.8917	44043
4766	5.434	0.116	0.000	0.042	-0.005	11011	1.21	38131.8389	44043
4766	5.437	0.077	0.000	0.053	-0.028	11011	1.17	38135.6361	22021
4766	5.427	0.065	0.000	0.021	-0.007	11011	1.40	38136.8576	44044
4766	5.420	0.052	0.081	0.000	0.000	11100	1.07	38178.6687	22200
4766	5.419	0.061	0.000	0.071	-0.005	11011	1.07	38816.9217	22022
4780	6.261	0.126	0.000	0.096	0.034	11011	1.37	38118.9042	44043
4780	6.273	0.125	0.000	0.082	0.018	11011	1.26	38131.8507	44043
4780	6.276	0.105	0.000	0.106	0.020	11011	1.12	38135.6521	22021
4780	6.253	0.102	0.000	0.066	0.013	11011	1.42	38136.8618	44044
4780	6.223	0.121	0.085	0.000	0.000	11100	1.08	38178.6764	22200
4780	6.213	0.120	0.000	0.098	0.033	11011	1.07	38816.9258	22022
4802	3.865	0.035	0.000	0.072	0.020	11011	2.60	38099.8153	44044
4802	3.876	0.058	0.000	-0.532	0.560	11000	2.58	38107.8021	44044
4802	3.912	0.022	0.000	-0.009	0.080	11011	2.58	38112.7917	44044
4802	3.847	0.036	0.000	0.074	0.022	11011	2.76	38453.8153	44044
4802	3.845	0.046	0.000	0.050	0.046	11011	2.64	38455.8299	44044
4803	5.434	0.324	0.000	0.319	0.187	11011	1.44	38819.8551	22022
4803	5.417	0.356	0.000	0.306	0.186	11011	1.44	38823.8411	44044
4803	5.396	0.272	0.000	0.319	0.189	11011	1.45	38824.8647	44044
4803	5.363	0.318	0.000	0.298	0.181	11011	1.44	38825.8418	44044
4807	5.780	1.559	0.000	1.618	1.428	11011	1.05	38814.8758	22022
4807	5.711	1.607	0.000	1.533	1.439	11011	1.05	38815.8881	44044
4807	5.684	1.591	0.000	1.526	1.395	11011	1.05	38816.8587	22022
4807	5.813	1.621	0.000	1.559	1.420	11011	1.06	38836.7869	44044
4807	5.788	1.575	1.883	0.000	0.000	11100	1.06	38844.8146	44400
4807	5.808	1.566	1.878	0.000	0.000	11100	1.06	38845.8191	44400
4817	4.621	-0.104	0.000	0.014	-0.095	11011	1.93	38099.8396	44044
4817	4.656	-0.072	0.000	0.004	-0.085	11011	1.92	38107.8076	44044
4817	4.619	-0.087	0.000	-0.056	-0.089	11011	1.92	38112.7972	44044
4817	4.612	-0.072	0.000	-0.019	-0.088	11011	2.02	38453.8201	44044
4817	4.624	-0.087	0.000	-0.052	-0.062	11011	1.95	38455.8340	44044
4819	2.118	-0.050	0.000	0.012	-0.026	11011	2.63	38099.8236	44044
4819	2.226	0.012	0.000	0.044	0.074	11011	2.63	38107.8139	44044
4819	2.183	0.004	0.000	0.026	0.014	11011	2.63	38112.8028	44044
4819	2.110	0.013	0.000	0.009	-0.017	11011	2.76	38453.8243	44044
4819	2.176	-0.056	0.000	0.058	-0.008	11011	2.66	38455.8382	44044
4831	4.624	1.051	0.000	0.708	0.589	11011	2.61	38099.8292	44044
4831	4.660	1.115	0.000	0.741	0.589	11011	2.62	38107.8208	44044
4831	4.617	1.058	0.000	0.751	0.575	11011	2.64	38113.7757	44044
4831	4.619	1.101	0.000	0.790	0.552	11011	2.72	38453.8292	44044
4831	4.629	1.096	0.000	0.766	0.550	11011	2.63	38455.8431	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
4837	5.937	0.880	0.000	0.678	0.492	11011	1.14	38819.8081	22022
4837	5.935	0.884	0.000	0.661	0.500	11011	1.07	38823.8550	44044
4837	5.932	0.855	0.000	0.681	0.512	11011	1.08	38824.8785	44044
4837	5.880	0.850	0.000	0.639	0.487	11011	1.07	38825.8503	44044
4846	5.429	2.673	0.000	2.052	1.457	11011	1.12	38814.8807	22022
4846	5.397	2.744	0.000	2.037	1.446	11011	1.13	38815.9015	44044
4846	5.335	2.670	0.000	2.004	1.430	11011	1.17	38816.9300	22022
4846	5.421	2.709	0.000	1.976	1.444	11011	1.12	38836.8307	44044
4846	5.402	2.665	0.000	2.004	1.419	11011	1.12	38837.8314	44044
4846	5.372	2.613	0.000	1.995	1.430	11011	1.13	38842.7790	44044
4848	4.668	-0.148	0.000	-0.103	-0.195	11011	3.94	38529.6785	44044
4848	4.707	-0.161	0.000	-0.114	-0.224	11011	3.96	38530.6792	44044
4865	5.702	0.038	0.000	0.060	-0.032	11011	1.09	38819.7994	22022
4865	5.760	0.030	0.000	0.056	-0.019	11011	1.00	38823.8592	44044
4865	5.670	-0.007	0.000	0.021	0.003	11011	1.05	38824.9008	44044
4865	5.648	0.013	0.000	0.032	-0.013	11011	1.00	38825.8550	44044
4867	5.909	0.496	0.000	0.457	0.274	11011	1.49	38819.7731	22022
4867	6.468	0.477	0.000	0.438	0.000	01010	1.47	38822.9481	44044
4867	5.845	0.461	0.000	0.427	0.291	11011	1.33	38823.8633	44044
4867	5.839	0.442	0.000	0.434	0.279	11011	1.38	38824.9050	44044
4888	4.291	1.285	0.000	1.042	0.697	11011	2.63	38099.8347	44044
4888	4.331	1.366	0.000	0.980	0.764	11011	2.63	38107.8264	44044
4888	4.305	1.368	0.000	1.000	0.748	11011	2.66	38113.7819	44044
4888	4.255	1.376	0.000	0.978	0.725	11011	2.75	38453.8340	44044
4888	4.298	1.358	0.000	0.900	0.812	11011	2.65	38455.8479	44044
4889	4.259	0.186	0.000	0.207	0.118	11011	1.94	38099.8451	44044
4889	4.278	0.206	0.000	0.210	0.152	11011	1.94	38107.8326	44044
4889	4.255	0.195	0.000	0.194	0.137	11011	1.95	38113.7861	44044
4889	4.225	0.203	0.000	0.210	0.116	11011	2.00	38453.8382	44044
4889	4.254	0.250	0.000	0.197	0.132	11011	1.94	38455.8535	44044
4898	4.024	-0.162	0.000	-0.157	-0.294	11011	4.12	38529.6847	44044
4898	4.106	-0.202	0.000	-0.115	-0.244	11011	4.14	38530.6840	44044
4900	6.260	0.259	0.000	0.284	0.126	11011	1.09	38819.8036	22022
4900	6.271	0.292	0.000	0.265	0.138	11011	1.01	38823.8676	44044
4900	6.208	0.247	0.000	0.232	0.162	11011	1.06	38824.9099	44044
4900	6.192	0.228	0.000	0.237	0.164	11011	1.01	38825.8592	44044
4940	4.633	-0.182	0.000	-0.042	-0.161	11011	2.67	38099.8833	44044
4940	4.735	-0.158	0.000	-0.058	-0.103	11011	2.58	38107.8375	44044
4940	4.693	-0.146	0.000	-0.027	-0.096	11011	2.58	38113.8208	44044
4940	4.648	-0.136	0.000	-0.070	-0.153	11011	2.70	38453.8431	44044
4940	4.791	-0.061	0.000	-0.082	-0.176	11011	2.58	38533.6715	44044
4942	4.189	-0.290	0.000	-0.048	-0.214	11011	2.87	38099.8889	44044
4942	4.259	-0.192	0.000	-0.119	-0.124	11011	2.75	38113.8257	44044
4942	3.966	-0.212	0.000	-0.105	-0.164	11011	2.75	38114.8201	44044
4942	4.216	-0.183	0.000	-0.121	-0.206	11011	2.83	38453.8486	44044
4942	4.398	-0.113	0.000	-0.052	-0.266	11011	2.75	38533.6764	44044
4949	5.478	1.578	0.000	1.963	1.809	11011	1.00	38814.8856	22022
4949	5.486	1.584	0.000	1.969	1.788	11011	1.01	38815.9064	44044
4949	5.475	1.547	0.000	1.970	1.791	11011	1.04	38816.9342	22022
4949	5.780	1.568	0.000	2.084	1.880	11011	1.00	38836.8349	44044
4949	5.626	1.569	1.692	0.000	0.000	11100	1.00	38844.8187	44400
4949	5.628	1.623	0.000	0.000	0.000	11000	1.01	38845.8227	44400
4955	5.158	1.151	0.000	0.816	0.568	11011	1.16	38819.8592	22022
4955	5.153	1.142	0.000	0.818	0.575	11011	1.15	38823.8729	44044
4955	5.144	1.128	0.000	0.812	0.604	11011	1.16	38824.8826	44044
4955	5.101	1.109	0.000	0.828	0.566	11011	1.15	38825.8737	44044
4979	4.809	0.647	0.000	0.576	0.350	11011	1.90	38099.8958	44044
4979	4.774	0.698	0.000	0.591	0.357	11011	1.82	38113.8312	44044
4979	4.692	0.706	0.000	0.550	0.388	11011	1.82	38114.8243	44044
4979	4.801	0.716	0.000	0.536	0.373	11011	1.86	38453.8535	44044
4979	4.871	0.688	0.000	0.581	0.368	11011	1.84	38455.8576	44044
4983	4.179	0.565	0.101	0.000	0.000	11100	1.30	38873.6181	44400
4983	4.299	0.592	0.062	0.000	0.000	11100	1.02	38873.7187	44400
4983	4.292	0.589	0.080	0.000	0.000	11100	1.13	38873.8167	44400
4983	4.268	0.570	0.081	0.000	0.000	11100	1.05	38874.6875	22200
5019	4.767	0.719	0.000	0.577	0.388	11011	1.27	38096.8424	22022
5019	4.764	0.711	0.000	0.587	0.372	11011	1.26	38099.8507	44044
5019	4.715	0.677	0.000	0.580	0.341	11011	1.64	38103.7431	44044
5019	4.767	0.706	0.000	0.581	0.359	11011	1.99	38107.7042	44044
5019	4.739	0.752	0.000	0.573	0.401	11011	1.28	38107.8667	44044
5019	4.727	0.710	0.000	0.573	0.354	11011	1.25	38112.8181	44044
5019	4.696	0.703	0.000	0.608	0.337	11011	1.33	38113.7694	44044
5019	4.628	0.674	0.000	0.578	0.346	11011	1.55	38114.9111	44044
5019	4.769	0.722	0.000	0.624	0.319	11011	1.51	38121.7097	44044
5019	4.797	0.701	0.276	0.000	0.000	11100	1.25	38166.6819	44400
5019	4.792	0.727	0.299	0.000	0.000	11100	1.43	38173.7326	22200
5019	4.718	0.715	0.282	0.000	0.000	11100	1.70	38179.7514	44400
5019	4.760	0.710	0.000	0.581	0.383	11011	1.27	38449.8757	44044
5019	4.754	0.727	0.000	0.554	0.375	11011	1.29	38450.8618	44044
5019	4.687	0.694	0.000	0.573	0.378	11011	1.37	38451.8319	44044
5019	4.788	0.705	0.000	0.561	0.366	11011	1.81	38452.7715	44044
5026	5.473	-0.160	0.000	-0.070	-0.204	11011	3.14	38529.6910	44044
5026	5.510	-0.125	0.000	-0.120	-0.180	11011	3.14	38530.6889	44044
5026	5.503	-0.115	0.000	-0.053	-0.058	11011	3.14	38531.6868	44044
5028	2.743	-0.003	0.000	0.058	-0.019	11011	1.85	38099.9014	44044
5028	2.753	0.023	0.000	0.060	0.016	11011	1.78	38113.8375	44044
5028	2.681	0.017	0.000	0.032	0.002	11011	1.77	38114.8292	44044
5089	3.871	1.151	0.000	0.845	0.589	11011	1.98	38099.9076	44044
5089	3.806	1.189	0.000	0.841	0.616	11011	1.90	38113.8424	44044
5089	3.782	1.195	0.000	0.825	0.595	11011	1.90	38114.8333	44044
5089	3.884	1.211	0.000	0.834	0.582	11011	1.95	38453.8667	44044
5089	3.888	1.217	0.000	0.823	0.601	11011	1.94	38455.8646	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5132	2.307	-0.245	0.000	-0.177	-0.276	11011	3.26	38529.6958	44044
5132	2.338	-0.197	0.000	-0.137	-0.320	11011	3.26	38530.7007	44044
5132	2.279	-0.245	0.000	-0.140	-0.135	11011	3.26	38531.6986	44044
5165	5.559	0.801	0.000	0.637	0.459	11011	1.22	38819.9022	22022
5165	5.595	0.800	0.000	0.634	0.439	11011	1.23	38823.8765	44044
5165	5.579	0.786	0.000	0.641	0.475	11011	1.22	38824.8862	44044
5165	5.517	0.766	0.000	0.639	0.427	11011	1.22	38825.8786	44044
5168	4.213	0.336	0.000	0.347	0.198	11011	1.67	38099.9125	44044
5168	4.182	0.372	0.000	0.334	0.224	11011	1.62	38113.8479	44044
5168	4.142	0.382	0.000	0.291	0.207	11011	1.62	38114.8389	44044
5168	4.210	0.378	0.000	0.339	0.197	11011	1.68	38453.8708	44044
5168	4.280	0.374	0.000	0.358	0.196	11011	1.66	38455.8687	44044
5190	3.371	-0.268	0.000	-0.120	-0.215	11011	2.11	38099.9181	44044
5190	3.398	-0.226	0.000	-0.087	-0.196	11011	2.03	38113.8535	44044
5190	3.280	-0.228	0.000	-0.134	-0.190	11011	2.03	38114.8437	44044
5190	3.403	-0.216	0.000	-0.108	-0.224	11011	2.08	38453.8812	44044
5190	3.443	-0.143	0.000	-0.129	-0.262	11011	2.03	38533.6812	44044
5192	4.252	1.442	0.000	2.183	1.885	11011	1.76	38099.9243	44044
5192	4.158	1.495	0.000	2.139	1.899	11011	1.68	38113.8590	44044
5192	4.164	1.496	0.000	2.153	1.865	11011	1.67	38114.8479	44044
5192	4.170	1.513	0.000	2.092	1.855	11011	1.70	38453.8854	44044
5192	4.217	1.524	0.000	2.125	1.842	11011	1.72	38455.8729	44044
5192	4.167	1.490	0.000	2.105	1.873	11011	1.67	38837.8557	44044
5192	4.235	1.543	1.467	0.000	0.000	11100	1.67	38844.8396	44400
5192	4.186	1.482	1.447	0.000	0.000	11100	1.67	38845.8366	44400
5193	2.979	-0.203	0.000	0.017	-0.118	11011	2.29	38099.9375	44044
5193	3.009	-0.143	0.000	0.043	-0.083	11011	2.11	38113.8646	44044
5193	2.853	-0.146	0.000	0.017	-0.092	11011	2.09	38114.8521	44044
5193	3.351	-0.151	0.000	0.051	-0.065	01011	2.08	38531.7042	44044
5210	4.282	-0.171	0.000	-0.039	-0.134	11011	1.79	38099.9444	44044
5210	4.282	-0.147	0.000	-0.031	-0.120	11011	1.64	38113.8694	44044
5210	4.219	-0.147	0.000	-0.044	-0.120	11011	1.63	38114.8569	44044
5210	4.331	-0.121	0.000	-0.079	-0.165	11011	1.62	38530.7062	44044
5214	6.664	0.109	0.000	0.110	-0.027	11011	1.20	38819.8168	22022
5214	6.682	0.117	0.000	0.081	0.025	11011	1.08	38822.9529	44044
5214	6.694	0.122	0.000	0.087	0.013	11011	1.05	38823.8812	44044
5214	6.626	0.073	0.000	0.050	0.022	11011	1.04	38824.9140	44044
5217	5.914	0.011	0.000	0.094	0.009	11011	3.28	38505.7903	44044
5217	5.864	-0.003	0.000	0.035	-0.033	11011	3.24	38529.7014	44044
5217	5.913	0.011	0.000	0.035	-0.055	11011	3.37	38530.6944	44044
5217	5.879	0.021	0.000	0.064	0.081	11011	3.24	38531.6931	44044
5221	4.692	-0.190	0.000	-0.056	-0.133	11011	1.77	38099.9493	44044
5221	4.686	-0.147	0.000	-0.000	-0.103	11011	1.61	38113.8743	44044
5221	4.633	-0.176	0.000	-0.033	-0.105	11011	1.59	38114.8618	44044
5221	4.724	-0.114	0.000	-0.083	-0.156	11011	1.58	38530.7111	44044
5231	2.582	-0.235	0.000	-0.107	-0.208	11011	2.47	38107.8736	44044
5231	2.524	-0.225	0.000	-0.151	-0.189	11011	2.46	38112.8403	44044
5231	2.288	-0.240	0.000	-0.143	-0.216	11011	2.50	38114.8674	44044
5231	2.573	-0.215	0.000	-0.138	-0.208	11011	2.54	38455.8778	44044
5248	3.817	-0.187	0.000	-0.104	-0.197	11011	2.07	38107.8819	44044
5248	3.802	-0.199	0.000	-0.120	-0.206	11011	2.05	38112.8451	44044
5248	3.618	-0.237	0.000	-0.166	-0.198	11011	2.10	38114.8722	44044
5248	3.853	-0.188	0.000	-0.148	-0.250	11011	2.06	38530.7174	44044
5249	3.915	-0.202	0.000	-0.062	-0.160	11011	2.28	38107.8889	44044
5249	3.812	-0.196	0.000	-0.174	-0.195	11011	2.24	38112.8507	44044
5249	3.611	-0.231	0.000	-0.186	-0.203	11011	2.31	38114.8764	44044
5249	3.893	-0.179	0.000	-0.137	-0.290	11011	2.26	38530.7208	44044
5260	4.311	0.587	0.000	0.498	0.365	11011	2.31	38112.8549	44044
5260	4.085	0.550	0.000	0.467	0.348	11011	2.39	38114.8812	44044
5285	4.475	-0.177	0.000	-0.072	-0.173	11011	2.12	38096.8542	22022
5285	4.391	-0.202	0.000	-0.073	-0.284	11011	2.05	38107.9000	44044
5285	4.309	-0.193	0.000	-0.140	-0.187	11011	2.00	38112.8639	44044
5285	4.323	-0.194	0.000	-0.130	-0.208	11011	2.04	38121.8021	44044
5285	4.279	-0.188	0.000	-0.106	-0.275	11011	1.99	38531.7090	44044
5287	3.299	1.134	0.000	0.842	0.591	11011	1.64	38449.8583	44044
5287	3.243	1.131	0.000	0.845	0.562	11011	1.61	38450.8681	44044
5287	3.217	1.113	0.000	0.804	0.591	11011	1.64	38451.8528	44044
5287	3.230	1.111	0.000	0.850	0.538	11011	1.71	38452.8403	44044
5287	3.245	1.130	0.000	0.827	0.560	11011	1.57	38452.8618	44044
5288	2.152	0.854	0.000	0.754	0.495	11011	1.80	38096.8681	22022
5288	1.993	0.973	0.000	0.749	0.519	11011	1.96	38099.9556	44044
5288	2.071	1.030	0.000	0.747	0.561	11011	1.81	38107.9056	44044
5288	2.090	1.032	0.000	0.768	0.541	11011	1.78	38121.8062	44044
5343	5.955	0.233	0.000	0.231	0.091	11011	1.03	38819.8842	22022
5343	6.032	0.259	0.000	0.256	0.137	11011	1.03	38822.9571	44044
5343	6.016	0.276	0.000	0.235	0.110	11011	1.02	38823.8849	44044
5343	5.956	0.218	0.000	0.210	0.125	11011	1.00	38824.9182	44044
5354	3.582	-0.150	0.000	-0.083	-0.131	11011	2.41	38096.8785	22022
5354	3.572	-0.193	0.000	-0.082	-0.155	11011	2.43	38107.9118	44044
5354	3.500	-0.169	0.000	-0.066	-0.172	11011	2.35	38112.8694	44044
5354	3.558	-0.202	0.000	-0.084	-0.128	11011	2.37	38113.8799	44044
5354	3.522	-0.169	0.000	-0.144	-0.156	11011	2.41	38121.8118	44044
5365	5.351	0.366	0.000	0.347	0.173	11011	1.04	38819.8883	22022
5365	5.411	0.410	0.000	0.358	0.191	11011	1.02	38823.8897	44044
5365	5.360	0.369	0.000	0.309	0.207	11011	1.01	38824.9224	44044
5365	5.388	0.395	0.000	0.336	0.210	11011	1.01	38827.9022	44044
5367	4.103	-0.016	0.000	0.016	-0.022	11011	1.84	38096.8910	22022
5367	4.039	-0.016	0.000	0.019	-0.018	11011	1.90	38107.9187	44044

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5367	3.992	-0.032	0.000	-0.028	-0.050	11011	1.82	38112.8743	44044
5367	4.029	-0.029	0.000	-0.032	-0.021	11011	1.85	38121.8160	44044
5373	6.287	0.038	0.000	0.047	-0.048	11011	1.11	38819.8793	22022
5373	6.646	0.032	0.000	0.062	0.007	01011	1.07	38823.8939	44044
5373	6.307	0.002	0.000	0.050	-0.018	11011	1.07	38824.9272	44044
5373	6.326	0.013	0.000	0.060	-0.025	11011	1.06	38827.9065	44044
5378	4.481	-0.178	0.000	-0.081	-0.158	11011	1.91	38096.9000	22022
5378	4.442	-0.179	0.000	-0.075	-0.163	11011	2.02	38107.9271	44044
5378	4.355	-0.211	0.000	-0.112	-0.197	11011	1.91	38112.8785	44044
5378	4.368	-0.176	0.000	-0.141	-0.164	11011	1.92	38121.8222	44044
5378	4.436	-0.146	0.000	-0.128	-0.157	11011	1.90	38531.7153	44044
5381	4.810	1.307	0.000	0.999	0.688	11011	1.72	38449.8639	44044
5381	4.775	1.354	0.000	0.984	0.673	11011	1.64	38450.8729	44044
5381	4.692	1.321	0.000	0.944	0.679	11011	1.73	38451.8576	44044
5381	4.773	1.320	0.000	0.986	0.647	11011	1.80	38452.8465	44044
5381	4.758	1.327	0.000	0.981	0.671	11011	1.64	38452.8674	44044
5395	4.513	-0.160	0.000	-0.086	-0.107	11011	2.47	38107.9340	44044
5395	4.495	-0.134	0.000	-0.104	-0.127	11011	2.29	38112.8840	44044
5396	4.310	0.424	0.000	0.419	0.356	11011	2.53	38107.9403	44044
5396	4.333	0.410	0.000	0.421	0.344	11011	2.32	38112.8889	44044
5396	4.365	0.437	0.000	0.417	0.336	11011	2.30	38121.8264	44044
5396	4.346	0.440	0.000	0.398	0.350	11011	2.30	38121.8312	44044
5440	2.390	-0.213	0.000	-0.101	-0.181	11011	2.26	38107.9465	44044
5440	2.357	-0.213	0.000	-0.082	-0.178	11011	2.08	38112.8944	44044
5440	2.378	-0.184	0.000	-0.090	-0.169	11011	2.07	38121.8361	44044
5440	2.345	-0.220	0.000	-0.137	-0.161	11011	2.06	38531.7201	44044
5453	3.984	-0.151	0.000	-0.103	-0.129	11011	2.73	38112.9000	44044
5453	4.026	-0.158	0.000	-0.043	-0.112	11011	2.70	38113.8861	44044
5453	4.035	-0.138	0.000	-0.118	-0.106	11011	2.70	38121.8410	44044
5469	2.272	-0.208	0.000	-0.101	-0.171	11011	2.52	38112.9049	44044
5469	2.322	-0.224	0.000	-0.079	-0.156	11011	2.48	38113.8903	44044
5469	2.336	-0.172	0.000	-0.102	-0.155	11011	2.48	38121.8465	44044
5471	3.973	-0.174	0.000	-0.085	-0.151	11011	1.86	38112.9097	44044
5471	3.985	-0.159	0.000	-0.100	-0.149	11011	1.83	38113.8951	44044
5471	3.974	-0.137	0.000	-0.131	-0.168	11011	1.82	38121.8500	44044
5485	4.113	1.346	0.000	0.989	0.718	11011	1.71	38096.9076	22022
5485	4.035	1.323	0.000	1.043	0.725	11011	1.75	38112.9153	44044
5485	3.998	1.347	0.000	1.027	0.746	11011	1.72	38113.9014	44044
5485	4.053	1.381	0.000	0.992	0.735	11011	1.70	38121.8549	44044
5489	4.888	0.013	0.000	0.061	0.010	11011	1.76	38112.9194	44044
5489	4.909	0.015	0.000	0.068	0.022	11011	1.73	38113.9062	44044
5489	4.908	0.039	0.000	0.054	0.013	11011	1.70	38121.8590	44044
5492	6.212	0.412	0.000	0.360	0.183	11011	1.44	38819.8737	22022
5492	6.265	0.380	0.000	0.386	0.215	11011	1.38	38823.8987	44044
5492	6.210	0.372	0.000	0.354	0.207	11011	1.35	38824.9315	44044
5492	6.233	0.369	0.000	0.372	0.185	11011	1.36	38827.9112	44044
5526	4.442	1.385	0.000	1.074	0.785	11011	1.82	38449.8715	44044
5526	4.410	1.408	0.000	1.056	0.775	11011	1.74	38450.8785	44044
5526	4.328	1.357	0.000	1.055	0.760	11011	1.86	38451.8625	44044
5526	4.408	1.384	0.000	1.073	0.746	11011	1.95	38452.8514	44044
5526	4.405	1.368	0.000	1.059	0.763	11011	1.75	38452.8722	44044
5528	4.367	-0.155	0.000	-0.059	-0.124	11011	2.16	38096.9424	22022
5528	4.286	-0.160	0.000	-0.079	-0.109	11011	2.25	38112.9257	44044
5528	4.346	-0.164	0.000	-0.022	-0.094	11011	2.20	38113.9104	44044
5528	4.353	-0.112	0.000	-0.048	-0.109	11011	2.15	38121.8639	44044
5571	2.652	-0.224	0.000	-0.106	-1.205	11010	2.22	38112.9306	44044
5571	2.708	-0.226	0.000	-0.087	-0.162	11011	2.16	38113.9153	44044
5571	2.722	-0.170	0.000	-0.109	-0.178	11011	2.12	38121.8701	44044
5576	3.125	-0.232	0.000	-0.090	-0.165	11011	2.17	38112.9361	44044
5576	2.897	-0.208	0.000	-0.074	-0.156	11011	2.11	38113.9194	44044
5576	3.196	-0.149	0.000	-0.083	-0.166	11011	2.06	38121.8743	44044
5603	3.286	1.678	0.000	1.581	1.321	11011	1.69	38450.8826	44044
5603	3.204	1.676	0.000	1.535	1.295	11011	1.68	38451.8812	44044
5603	3.279	1.674	0.000	1.550	1.291	11011	1.90	38452.8562	44044
5603	3.263	1.678	0.000	1.564	1.281	11011	1.70	38452.8764	44044
5605	3.885	-0.155	0.000	-0.098	-0.099	11011	2.61	38112.9424	44044
5605	3.896	-0.167	0.000	-0.066	-0.090	11011	2.51	38113.9250	44044
5605	3.622	-0.167	0.000	-0.130	-0.152	11011	2.44	38114.8875	44044
5625	5.827	-0.115	0.000	-0.044	-0.127	11011	2.15	38505.7958	44044
5625	5.805	-0.103	0.000	-0.074	-0.149	11011	2.15	38529.7306	44044
5625	5.876	-0.108	0.000	-0.057	-0.143	11011	2.11	38530.7493	44044
5625	5.725	-0.154	0.000	-0.102	-0.093	11011	2.41	38531.7243	44044
5626	4.031	-0.190	0.000	-0.110	-0.130	11011	2.45	38112.9465	44044
5626	4.061	-0.197	0.000	-0.036	-0.131	11011	2.36	38113.9292	44044
5626	3.800	-0.180	0.000	-0.091	-0.177	11011	2.28	38114.8917	44044
5646	3.550	-0.076	0.000	-0.063	-0.046	11011	2.61	38114.8965	44044
5646	3.922	0.012	0.000	-0.034	0.016	11011	2.61	38121.8799	44044
5651	4.568	-0.171	0.000	-0.122	-0.177	11011	2.22	38114.9014	44044
5651	4.870	-0.111	0.000	-0.080	-0.144	11011	2.22	38121.8840	44044
5660	4.924	0.352	0.000	0.315	0.302	11011	1.57	38096.9507	22022
5660	4.881	0.351	0.000	0.365	0.304	11011	1.62	38107.9528	44044
5660	4.953	0.405	0.000	0.402	0.311	11011	1.57	38121.8882	44044
5683	4.203	-0.143	0.000	-0.048	-0.068	11011	2.66	38107.9604	44044
5683	4.361	-0.002	0.000	0.006	-0.022	11011	2.53	38121.8937	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5685	2.633	-0.097	0.000	-0.039	-0.109	11011	1.16	38096.9201	22022
5685	2.626	-0.115	0.000	-0.019	-0.121	11011	1.33	38099.8556	44044
5685	2.630	-0.097	0.000	-0.064	-0.102	11011	3.41	38107.7292	44044
5685	2.608	-0.126	0.000	-0.009	-0.088	11011	1.21	38107.9722	44044
5685	2.680	-0.100	0.000	-0.072	-0.095	11011	2.54	38112.7347	44044
5685	2.605	-0.107	0.000	0.001	-0.093	11011	1.19	38112.9528	44044
5685	2.610	-0.102	0.000	-0.048	-0.116	11011	3.08	38113.7187	44044
5685	2.606	-0.144	0.000	0.000	-0.073	11011	1.16	38113.9340	44044
5685	2.599	-0.124	0.000	-0.032	-0.082	11011	1.14	38114.9194	44044
5685	2.647	-0.091	0.000	-0.055	-0.103	11011	3.33	38121.6924	44044
5685	2.657	-0.099	0.000	0.001	-0.087	11011	1.18	38121.9236	44044
5685	2.617	-0.091	0.000	-0.017	-0.117	11011	1.96	38124.7257	44044
5685	2.603	-0.114	-0.371	0.000	0.000	11100	1.27	38166.6861	44400
5685	2.548	-0.111	-0.365	0.000	0.000	11100	1.14	38170.7569	22200
5685	2.611	-0.067	-0.383	0.000	0.000	11100	1.14	38171.7562	22200
5685	2.571	-0.095	-0.361	0.000	0.000	11100	1.14	38173.7389	22200
5685	2.552	-0.107	-0.352	0.000	0.000	11100	1.43	38173.8396	22200
5685	2.588	-0.102	-0.376	0.000	0.000	11100	1.14	38174.7396	22200
5685	2.618	-0.122	-0.336	0.000	0.000	11100	1.41	38174.8347	22200
5685	2.574	-0.093	-0.344	0.000	0.000	11100	1.16	38178.7597	22200
5685	2.580	-0.128	-0.323	0.000	0.000	11100	1.57	38178.8431	22200
5685	2.528	-0.077	-0.357	0.000	0.000	11100	1.14	38179.7389	44400
5685	2.519	-0.083	-0.378	0.000	0.000	11100	1.19	38180.7646	44400
5685	2.790	-0.101	-0.435	0.000	0.000	11100	1.88	38180.8618	44400
5685	2.531	-0.108	0.000	-0.046	-0.135	11011	1.78	38437.8799	22022
5685	2.613	-0.086	0.000	-0.029	-0.107	11011	1.32	38438.9299	44044
5685	2.613	-0.102	0.000	-0.015	-0.111	11011	1.17	38438.9771	44044
5685	2.627	-0.090	0.000	-0.012	-0.111	11011	1.23	38440.9472	44044
5685	2.642	-0.118	0.000	-0.026	-0.062	11011	1.14	38441.0083	44044
5685	2.664	-0.107	0.000	0.010	-0.075	11011	1.27	38441.9326	44044
5685	2.620	-0.111	0.000	-0.019	-0.076	11011	1.14	38442.9832	44044
5685	2.608	-0.110	0.000	-0.029	-0.084	11011	1.21	38443.9444	44044
5685	2.610	-0.123	0.000	-0.008	-0.078	11011	1.14	38444.0083	44044
5685	2.646	-0.110	0.000	-0.041	-0.080	11011	3.07	38444.8125	44044
5685	2.515	-0.118	0.000	-0.049	-0.110	11011	1.85	38451.8368	44044
5685	2.589	-0.116	0.000	-0.056	-0.111	11011	3.95	38452.7771	44044
5685	2.617	-0.095	0.000	-0.022	-0.125	11011	2.72	38455.7903	44044
5685	2.617	-0.081	0.000	-0.027	-0.110	11011	1.23	38455.9042	44044
5685	2.611	-0.114	-0.353	0.000	0.000	11100	1.92	38812.8437	44400
5685	2.624	-0.141	0.000	0.009	-0.132	11011	1.72	38814.8518	22022
5685	0.025	-0.005	0.000	0.000	-0.119	00001	1.40	38815.8837	44044
5685	2.618	-0.131	0.000	0.005	-0.085	11011	1.14	38815.9706	44044
5685	5.079	-0.186	0.000	0.003	-0.089	01011	1.16	38816.9483	22022
5685	2.702	-0.041	0.000	-0.013	-0.108	11011	1.89	38819.8265	22022
5685	2.604	-0.108	0.000	-0.031	-0.115	11011	1.43	38819.8683	22022
5685	2.568	-0.133	0.000	-0.023	-0.133	11011	1.14	38819.9725	22022
5685	2.606	-0.102	0.000	-0.058	-0.092	11011	1.45	38822.8579	44044
5685	2.646	-0.134	0.000	-0.019	-0.062	11011	1.14	38822.9626	44044
5685	2.575	-0.117	0.000	-0.038	-0.132	11011	1.63	38823.8356	44044
5685	2.628	-0.110	0.000	-0.039	-0.098	11011	1.18	38823.9161	44044
5685	2.630	-0.089	0.000	-0.013	-0.106	11011	1.14	38823.9529	44044
5685	2.549	-0.146	0.000	-0.026	-0.121	11011	1.50	38824.8461	44044
5685	2.569	-0.088	0.000	-0.051	-0.075	11011	1.77	38825.8182	44044
5685	2.577	-0.123	0.000	-0.041	-0.103	11011	1.25	38827.8800	44044
5685	2.586	-0.119	0.000	-0.036	-0.078	11011	1.14	38827.9467	44044
5685	2.639	-0.100	0.000	-0.038	-0.096	11011	2.34	38835.7617	44044
5685	2.587	-0.135	0.000	-0.014	-0.110	11011	1.17	38835.8906	44044
5685	2.686	-0.078	0.000	0.013	-0.107	11011	1.94	38836.7772	44044
5685	2.651	-0.104	0.000	-0.027	-0.111	11011	1.25	38836.8564	44044
5685	2.583	-0.124	0.000	-0.037	-0.107	11011	1.14	38836.9071	44044
5685	2.652	-0.087	0.000	0.018	-0.114	11011	2.20	38837.7619	44044
5685	2.589	-0.102	0.000	-0.021	-0.110	11011	1.29	38837.8446	44044
5685	2.629	-0.101	0.000	-0.078	-0.050	11011	1.14	38837.9169	44044
5685	2.621	-0.084	0.000	-0.010	-0.107	11011	1.98	38838.7697	44044
5685	2.558	-0.072	0.000	-0.053	-0.111	11011	2.43	38839.7479	44044
5685	0.025	-0.005	0.000	0.000	-0.120	00001	1.80	38839.7781	44044
5685	2.625	-0.065	0.000	-0.038	-0.122	11011	2.02	38841.7592	44044
5685	2.608	-0.111	0.000	-0.056	-0.104	11011	1.14	38841.9224	44044
5685	2.588	-0.109	0.000	-0.036	-0.111	11011	2.04	38842.7557	44044
5685	2.604	-0.133	0.000	-0.009	-0.126	11011	1.33	38842.8217	44044
5685	2.653	-0.119	0.000	-0.012	-0.117	11011	1.14	38842.9085	44044
5685	2.516	-0.082	-0.357	0.000	0.000	11100	1.48	38844.7943	44400
5685	2.530	-0.094	-0.340	0.000	0.000	11100	1.14	38844.8993	44400
5685	2.587	-0.109	-0.345	0.000	0.000	11100	1.49	38845.7902	44400
5685	2.593	-0.110	-0.345	0.000	0.000	11100	1.22	38845.8420	44400
5685	2.579	-0.127	-0.349	0.000	0.000	11100	1.14	38845.9017	44400
5695	3.298	-0.236	0.000	-0.105	-0.192	11011	2.08	38107.9660	44044
5695	3.343	-0.136	0.000	-0.082	-0.166	11011	1.99	38121.9028	44044
5695	3.260	-0.267	0.000	-0.075	-0.234	11011	2.02	38505.8014	44044
5695	3.226	-0.221	0.000	-0.151	-0.249	11011	2.02	38529.7354	44044
5695	3.266	-0.204	0.000	-0.143	-0.260	11011	1.97	38530.7556	44044
5695	3.226	-0.219	0.000	-0.128	-0.208	11011	2.02	38531.7299	44044
5705	3.513	1.507	0.000	1.202	0.855	11011	1.76	38099.9611	44044
5705	3.617	1.601	0.000	1.173	0.887	11011	1.77	38121.9076	44044
5708	3.155	-0.199	0.000	-0.113	-0.181	11011	2.24	38114.9062	44044
5708	3.468	-0.134	0.000	-0.115	-0.137	11011	2.29	38121.9125	44044
5712	4.474	-0.187	0.000	-0.068	-0.161	11011	1.80	38099.9694	44044
5712	4.596	-0.117	0.000	-0.046	-0.114	11011	1.83	38121.9194	44044
5721	6.102	0.213	0.000	0.239	0.091	11011	1.07	38819.9446	22022
5721	6.184	0.191	0.000	0.274	0.153	11011	1.05	38822.9682	44044
5721	6.184	0.221	0.000	0.239	0.111	11011	1.07	38823.9385	44044
5721	6.120	0.228	0.000	0.224	0.110	11011	1.06	38827.9335	44044
5727	4.956	0.527	0.000	0.477	0.280	11011	1.05	38819.9350	22022
5727	5.045	0.548	0.000	0.476	0.299	11011	1.05	38823.9217	44044
5727	5.015	0.538	0.000	0.482	0.280	11011	1.04	38827.9154	44044
5727	5.005	0.551	0.000	0.471	0.269	11011	1.17	38835.8418	44044
5736	5.435	-0.155	0.000	-0.067	-0.182	11011	1.81	38505.8083	44044
5736	5.436	-0.151	0.000	-0.114	-0.169	11011	1.81	38529.7403	44044
5736	5.462	-0.151	0.000	-0.113	-0.171	11011	1.78	38530.7604	44044
5736	5.411	-0.156	0.000	-0.078	-0.153	11011	1.81	38531.7347	44044
5763	5.029	1.545	0.000	1.268	0.929	11011	1.12	38819.9296	22022
5763	5.090	1.551	0.000	1.288	0.949	11011	1.11	38823.9260	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5763	5.081	1.561	0.000	1.273	0.919	11011	1.10	38827.9203	44044
5763	5.068	1.581	0.000	1.255	0.930	11011	1.22	38835.8460	44044
5764	5.510	-0.158	0.000	-0.075	-0.186	11011	1.25	38505.8153	44044
5764	5.498	-0.129	0.000	-0.102	-0.148	11011	1.26	38529.7451	44044
5764	5.525	-0.131	0.000	-0.101	-0.172	11011	1.23	38530.7646	44044
5776	2.758	-0.195	0.000	-0.141	-0.215	11011	2.03	38505.8194	44044
5776	2.811	-0.212	0.000	-0.142	-0.224	11011	2.04	38529.7493	44044
5776	2.842	-0.192	0.000	-0.160	-0.224	11011	2.00	38530.7701	44044
5776	2.800	-0.188	0.000	-0.134	-0.255	11011	2.11	38532.8118	44044
5776	2.872	-0.127	0.000	-0.116	-0.280	11011	2.39	38533.6882	44044
5780	5.169	-0.105	0.000	-0.037	-0.121	11011	1.14	38505.8257	44044
5781	4.560	-0.173	0.000	-0.125	-0.188	11011	2.27	38505.8306	44044
5781	4.553	-0.174	0.000	-0.199	-0.162	11011	2.28	38529.7569	44044
5781	4.622	-0.129	0.000	-0.132	-0.227	11011	2.26	38530.7743	44044
5781	4.572	-0.163	0.000	-0.163	-0.261	11011	2.40	38532.7250	44044
5781	4.642	-0.151	0.000	-0.127	-0.250	11011	2.63	38533.6965	44044
5794	3.611	1.419	0.000	1.022	0.717	11011	1.96	38450.8896	44044
5794	3.484	1.365	0.000	1.000	0.699	11011	1.96	38451.8868	44044
5794	3.567	1.365	0.000	1.020	0.676	11011	1.83	38452.8958	44044
5794	3.659	1.393	0.000	0.989	0.693	11011	1.52	38532.7299	44044
5797	4.382	1.441	0.000	1.008	0.697	11011	2.16	38532.7354	44044
5797	4.467	1.481	0.000	1.056	0.759	11011	2.38	38533.7007	44044
5812	3.721	-0.143	0.000	-0.082	-0.188	11011	1.76	38450.9174	44044
5812	3.597	-0.181	0.000	-0.087	-0.171	11011	1.98	38451.8917	44044
5812	3.629	-0.174	0.000	-0.088	-0.186	11011	1.80	38452.9069	44044
5812	3.644	-0.180	0.000	-0.098	-0.217	11011	1.51	38505.8368	44044
5812	3.662	-0.158	0.000	-0.146	-0.193	11011	1.53	38529.7618	44044
5812	3.717	-0.163	0.000	-0.098	-0.207	11011	1.51	38530.7799	44044
5812	3.705	-0.155	0.000	-0.110	-0.227	11011	1.55	38532.7396	44044
5820	4.667	1.009	0.000	0.663	0.460	11011	1.70	38532.7444	44044
5820	4.806	1.055	0.000	0.706	0.506	11011	1.86	38533.7056	44044
5824	5.039	1.330	0.000	0.956	0.675	11011	1.40	38837.9029	44044
5824	5.040	1.346	0.000	0.949	0.683	11011	1.36	38841.9265	44044
5824	5.090	1.332	0.000	0.963	0.684	11011	1.36	38842.9133	44044
5824	4.990	1.325	1.534	0.000	0.000	11100	1.38	38844.8951	44400
5824	4.921	1.290	1.527	0.000	0.000	11100	1.37	38845.8983	44400
5825	4.704	0.433	0.000	0.347	0.199	11011	2.24	38532.7785	44044
5830	5.759	0.281	0.000	0.339	0.183	11011	1.19	38819.9247	22022
5830	5.828	0.305	0.000	0.335	0.192	11011	1.16	38823.9307	44044
5830	5.790	0.322	0.000	0.314	0.174	11011	1.16	38827.9243	44044
5830	5.788	0.315	0.000	0.326	0.169	11011	1.28	38835.8501	44044
5839	4.720	-0.166	0.000	-0.118	-0.141	11011	1.69	38505.8458	44044
5839	4.749	-0.129	0.000	-0.122	-0.150	11011	1.70	38529.7674	44044
5839	4.788	-0.117	0.000	-0.086	-0.170	11011	1.69	38530.7833	44044
5839	4.784	-0.128	0.000	-0.078	-0.184	11011	1.69	38532.7840	44044
5840	5.973	0.888	0.000	0.673	0.455	11011	1.04	38819.9397	22022
5840	6.074	0.913	0.000	0.684	0.489	11011	1.03	38823.9347	44044
5840	6.044	0.881	0.000	0.690	0.463	11011	1.02	38827.9286	44044
5840	6.029	0.881	0.000	0.696	0.441	11011	1.16	38835.8550	44044
5843	5.352	0.044	0.000	0.044	-0.050	11011	1.05	38835.8953	44044
5843	5.362	-0.027	0.000	0.044	-0.064	11011	1.11	38836.8696	44044
5843	5.350	0.035	0.000	0.031	0.029	11011	1.05	38837.8904	44044
5843	5.432	2.776	0.000	0.057	-0.019	00011	1.05	38841.9751	44044
5843	5.335	0.007	0.000	0.048	-0.071	11011	1.26	38842.8169	44044
5854	2.697	1.170	0.000	0.812	0.541	11011	1.06	38096.9271	22022
5854	2.635	1.159	0.000	0.839	0.559	11011	1.04	38099.9903	44044
5854	2.646	1.166	0.000	0.750	0.563	11011	3.04	38107.7382	44044
5854	2.667	1.156	0.000	0.858	0.579	11011	1.06	38107.9792	44044
5854	2.711	1.122	0.000	0.859	0.503	11011	2.33	38112.7431	44044
5854	2.660	1.177	0.000	0.880	0.538	11011	1.05	38112.9576	44044
5854	2.673	1.202	0.000	0.845	0.536	11011	2.52	38113.7340	44044
5854	2.604	1.186	0.000	0.852	0.578	11011	1.03	38113.9396	44044
5854	2.684	1.168	0.000	0.862	0.574	11011	1.02	38114.9250	44044
5854	2.700	1.124	0.000	0.838	0.541	11011	2.90	38121.7028	44044
5854	2.707	1.192	0.000	0.856	0.574	11011	1.04	38121.9292	44044
5854	2.655	1.161	0.000	0.816	0.518	11011	1.77	38124.7368	44044
5854	2.684	1.209	0.000	0.858	0.548	11011	1.18	38124.8069	44044
5854	2.634	1.148	1.260	0.000	0.000	11100	1.19	38166.6896	44400
5854	2.560	1.182	1.227	0.000	0.000	11100	1.02	38170.7625	22200
5854	2.673	1.147	1.240	0.000	0.000	11100	1.02	38171.7618	22200
5854	2.638	1.151	1.277	0.000	0.000	11100	1.03	38173.7431	22200
5854	2.540	1.154	1.231	0.000	0.000	11100	1.15	38173.8347	22200
5854	2.589	1.176	1.224	0.000	0.000	11100	1.03	38174.7437	22200
5854	2.575	1.176	1.228	0.000	0.000	11100	1.14	38174.8299	22200
5854	2.611	1.176	1.240	0.000	0.000	11100	1.03	38178.7632	22200
5854	2.610	1.154	1.236	0.000	0.000	11100	1.23	38178.8389	22200
5854	2.620	1.175	1.255	0.000	0.000	11100	1.02	38179.7424	44400
5854	2.557	1.170	1.267	0.000	0.000	11100	1.05	38180.7778	44400
5854	2.667	1.171	1.195	0.000	0.000	11100	1.45	38180.8660	44400
5854	2.680	1.171	0.000	0.812	0.549	11011	1.14	38440.9521	44044
5854	2.718	1.161	0.000	0.839	0.571	11011	1.03	38441.0035	44044
5854	2.646	1.178	0.000	0.823	0.563	11011	1.05	38442.9840	44044
5854	2.648	1.181	0.000	0.818	0.553	11011	1.12	38443.9493	44044
5854	2.645	1.180	0.000	0.828	0.562	11011	1.03	38444.0035	44044
5854	2.667	1.201	0.000	0.798	0.547	11011	3.55	38444.8069	44044
5854	2.627	1.184	1.208	0.000	0.000	11100	1.83	38812.8493	44400
5854	2.630	1.174	0.000	0.815	0.553	11011	1.64	38814.8569	22022
5854	2.610	1.177	0.000	0.820	0.522	11011	1.39	38815.8793	44044
5854	2.637	1.188	0.000	0.813	0.583	11011	1.04	38815.9751	44044
5854	2.595	1.170	0.000	0.836	0.566	11011	1.06	38816.9524	22022
5854	2.724	1.222	0.000	0.821	0.544	11011	1.82	38819.8307	22022
5854	2.639	1.209	0.000	0.805	0.524	11011	1.42	38819.8640	22022
5854	2.606	1.146	0.000	0.834	0.547	11011	1.03	38819.9675	22022
5854	2.622	1.194	0.000	0.802	0.541	11011	1.37	38822.8626	44044
5854	2.680	1.158	0.000	0.831	0.573	11011	1.03	38822.9724	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5854	2.880	1.182	0.000	0.832	0.512	11011	1.65	38823.8314	44044
5854	2.660	1.164	0.000	0.808	0.551	11011	1.11	38823.9119	44044
5854	2.682	1.147	0.000	0.822	0.576	11011	1.03	38823.9571	44044
5854	2.610	1.153	0.000	0.821	0.528	11011	1.41	38824.8515	44044
5854	2.576	1.197	0.000	0.778	0.536	11011	1.69	38825.8231	44044
5854	2.614	1.158	0.000	0.805	0.556	11011	1.21	38827.8758	44044
5854	2.677	1.147	0.000	0.835	0.576	11011	1.03	38827.9508	44044
5854	2.648	1.162	0.000	0.823	0.529	11011	2.26	38835.7661	44044
5854	2.644	1.160	0.000	0.825	0.532	11011	1.10	38835.8850	44044
5854	2.737	1.192	0.000	0.853	0.539	11011	2.14	38836.7682	44044
5854	2.702	1.207	0.000	0.816	0.536	11011	1.20	38836.8522	44044
5854	2.639	1.175	0.000	0.813	0.537	11011	1.04	38836.9112	44044
5854	2.679	1.165	0.000	0.846	0.525	11011	2.10	38837.7668	44044
5854	2.624	1.188	0.000	0.798	0.546	11011	1.21	38837.8486	44044
5854	2.672	1.201	0.000	0.802	0.538	11011	1.89	38838.7744	44044
5854	2.718	1.172	0.000	0.912	0.531	11011	2.72	38839.7413	44044
5854	2.653	1.173	0.000	0.824	0.526	11011	1.73	38839.7821	44044
5854	2.669	1.202	0.000	0.827	0.511	11011	2.30	38841.7483	44044
5854	2.680	1.189	0.000	0.824	0.553	11011	1.02	38841.9307	44044
5854	2.626	1.177	0.000	0.801	0.532	11011	1.95	38842.7606	44044
5854	2.636	1.161	0.000	0.806	0.535	11011	1.26	38842.8258	44044
5854	2.687	1.184	0.000	0.810	0.566	11011	1.03	38842.9182	44044
5854	2.642	1.170	1.265	0.000	0.000	11100	1.40	38844.7983	44400
5854	2.622	1.156	1.262	0.000	0.000	11100	1.03	38844.9111	44400
5854	2.625	1.136	1.268	0.000	0.000	11100	1.42	38845.7937	44400
5854	2.633	1.163	1.264	0.000	0.000	11100	1.13	38845.8457	44400
5854	2.645	1.156	1.262	0.000	0.000	11100	1.03	38845.9249	44400
5859	5.579	0.001	0.000	0.050	-0.033	11011	1.13	38836.8744	44044
5859	5.600	0.035	0.000	0.055	-0.034	11011	1.07	38837.8946	44044
5859	5.601	0.051	0.000	0.029	-0.003	11011	1.06	38841.9710	44044
5859	5.571	0.033	0.000	0.021	-0.030	11011	1.20	38842.8397	44044
5883	3.986	-0.061	0.000	-0.006	-0.034	11011	1.72	38107.9847	44044
5883	4.011	-0.008	0.000	-0.030	-0.106	11011	1.64	38532.7882	44044
5885	4.689	-0.057	0.000	0.097	-0.155	11011	1.66	38450.9215	44044
5885	4.636	-0.107	0.000	0.034	-0.071	11011	1.87	38451.8958	44044
5885	4.606	-0.075	0.000	0.015	-0.090	11011	1.69	38452.9118	44044
5885	4.632	-0.074	0.000	-0.010	-0.110	11011	1.41	38505.8486	44044
5885	4.657	-0.067	0.000	-0.031	-0.086	11011	1.41	38529.7708	44044
5885	4.684	-0.048	0.000	-0.016	-0.102	11011	1.40	38530.7882	44044
5888	5.267	0.998	0.000	0.782	0.521	11011	1.20	38835.8668	44044
5888	5.260	1.017	0.000	0.758	0.520	11011	1.14	38836.8786	44044
5888	5.259	1.030	0.000	0.764	0.534	11011	1.09	38837.8987	44044
5888	5.324	1.052	0.000	0.780	0.558	11011	1.04	38841.9349	44044
5888	5.289	1.022	0.000	0.765	0.508	11011	1.22	38842.8439	44044
5902	5.014	-0.026	0.000	-0.001	-0.045	11011	1.29	38505.8528	44044
5902	5.033	0.002	0.000	-0.005	-0.027	11011	1.29	38529.7771	44044
5902	5.056	-0.007	0.000	0.022	-0.053	11011	1.29	38530.7924	44044
5904	4.662	-0.090	0.000	0.004	-0.098	11011	1.63	38450.9264	44044
5904	4.574	-0.107	0.000	-0.018	-0.079	11011	1.82	38451.9007	44044
5904	4.588	-0.068	0.000	-0.028	-0.101	11011	1.66	38452.9167	44044
5904	4.606	-0.092	0.000	-0.041	-0.112	11011	1.40	38505.8590	44044
5904	4.614	-0.065	0.000	-0.059	-0.107	11011	1.40	38529.7812	44044
5904	4.659	-0.073	0.000	-0.008	-0.116	11011	1.40	38530.7972	44044
5906	5.383	-0.035	0.000	0.035	-0.032	11011	1.42	38505.8903	44044
5906	5.405	-0.024	0.000	0.014	-0.025	11011	1.38	38529.7861	44044
5906	5.392	-0.011	0.000	-0.006	-0.019	11011	1.39	38530.8007	44044
5907	5.414	-0.046	0.000	0.031	-0.067	11011	1.42	38505.8965	44044
5907	5.455	-0.054	0.000	0.006	-0.049	11011	1.36	38529.7910	44044
5907	5.448	-0.029	0.000	-0.001	-0.045	11011	1.37	38530.8042	44044
5915	5.934	-0.021	0.000	0.027	-0.042	11011	1.34	38505.9028	44044
5915	5.974	-0.033	0.000	0.013	-0.022	11011	1.27	38529.7951	44044
5915	5.895	-0.006	0.000	0.026	-0.020	11011	1.29	38530.8090	44044
5924	5.490	1.595	0.000	1.233	0.970	11011	1.07	38837.8862	44044
5924	5.538	1.587	0.000	1.310	0.983	11011	1.01	38841.9570	44044
5924	5.441	1.572	0.000	1.226	0.961	11011	1.32	38842.8126	44044
5924	5.487	1.556	1.996	0.000	0.000	11100	1.02	38844.8910	44400
5924	5.456	1.584	1.958	0.000	0.000	11100	1.03	38845.8872	44400
5928	3.936	-0.187	0.000	-0.064	-0.211	11011	1.73	38450.9319	44044
5928	3.844	-0.224	0.000	-0.094	-0.185	11011	1.94	38451.9056	44044
5928	3.848	-0.214	0.000	-0.106	-0.213	11011	1.76	38452.9229	44044
5928	3.909	-0.186	0.000	-0.139	-0.205	11011	1.50	38529.8007	44044
5928	3.935	-0.167	0.000	-0.120	-0.199	11011	1.52	38530.8139	44044
5928	3.886	-0.208	0.000	-0.130	-0.200	11011	1.56	38531.7437	44044
5932	5.372	1.674	0.000	1.480	1.224	11011	1.17	38837.8821	44044
5932	5.449	1.633	0.000	1.515	1.286	11011	1.11	38841.9619	44044
5932	5.376	1.633	0.000	1.468	1.254	11011	1.41	38842.8085	44044
5932	5.374	1.628	2.008	0.000	0.000	11100	1.13	38844.8861	44400
5932	5.349	1.653	1.992	0.000	0.000	11100	1.13	38845.8826	44400
5941	4.894	-0.097	0.000	-0.077	-0.028	11011	1.20	38529.8049	44044
5941	4.886	-0.087	0.000	-0.060	-0.050	11011	1.23	38531.7493	44044
5944	2.942	-0.165	0.000	-0.061	-0.199	11011	1.61	38450.9361	44044
5944	2.857	-0.207	0.000	-0.071	-0.185	11011	1.79	38451.9097	44044
5944	2.862	-0.185	0.000	-0.125	-0.195	11011	1.48	38529.8361	44044
5944	2.907	-0.187	0.000	-0.111	-0.196	11011	1.45	38531.7556	44044
5944	2.948	-0.161	0.000	-0.115	-0.208	11011	1.42	38532.7931	44044
5947	4.155	1.226	0.000	0.914	0.613	11011	1.03	38133.9132	44044
5947	4.128	1.227	0.000	0.880	0.609	11011	1.03	38136.8986	44044
5947	4.143	1.228	1.276	0.000	0.000	11100	1.17	38166.6937	44400
5947	4.102	1.225	1.268	0.000	0.000	11100	1.01	38166.7749	44400
5947	4.116	1.226	1.261	0.000	0.000	11100	1.05	38166.8368	44400
5947	4.146	1.244	1.286	0.000	0.000	11100	1.36	38166.9132	44400
5947	4.082	1.208	1.301	0.000	0.000	11100	1.01	38170.7701	22200
5947	4.100	1.239	1.263	0.000	0.000	11100	1.07	38171.8285	22200
5947	4.079	1.224	1.223	0.000	0.000	11100	1.01	38173.7826	22200
5947	4.232	1.197	1.343	0.000	0.000	11100	1.33	38173.8896	22200

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
5947	4.122	1.230	1.248	0.000	0.000	11100	1.01	38174.7681	22200
5947	4.243	1.191	1.327	0.000	0.000	11100	1.48	38174.9069	22200
5947	4.142	1.231	1.260	0.000	0.000	11100	1.01	38178.7514	22200
5947	4.163	1.226	1.315	0.000	0.000	11100	1.59	38178.9069	22200
5947	4.122	1.233	1.276	0.000	0.000	11100	1.01	38179.7667	44400
5947	4.065	1.232	1.318	0.000	0.000	11100	1.04	38180.7896	44400
5947	4.179	1.184	1.295	0.000	0.000	11100	1.33	38180.8708	44400
5947	4.200	1.230	0.000	0.892	0.614	11011	1.01	38197.7104	44044
5947	4.291	1.198	0.000	0.886	0.563	11011	1.61	38437.8889	22022
5947	4.143	1.252	0.000	0.887	0.586	11011	1.23	38438.9354	44044
5947	4.144	1.240	0.000	0.889	0.599	11011	1.07	38438.9819	44044
5947	4.166	1.229	0.000	0.893	0.593	11011	1.11	38440.9604	44044
5947	4.187	1.228	0.000	0.908	0.610	11011	1.03	38440.9986	44044
5947	4.119	1.225	0.000	0.897	0.584	11011	1.17	38442.9382	44044
5947	4.122	1.249	0.000	0.878	0.603	11011	1.06	38442.9750	44044
5947	4.138	1.228	0.000	0.872	0.586	11011	1.11	38443.9535	44044
5947	4.139	1.231	0.000	0.861	0.596	11011	1.04	38443.9889	44044
5947	4.150	1.219	0.000	0.890	0.612	11011	1.39	38449.8792	44044
5947	4.147	1.241	0.000	0.909	0.596	11011	1.79	38450.8396	44044
5947	4.158	1.244	0.000	0.878	0.617	11011	1.06	38450.9569	44044
5947	4.047	1.233	0.000	0.870	0.575	11011	1.70	38451.8431	44044
5947	4.148	1.222	0.000	0.904	0.609	11011	3.23	38452.7833	44044
5947	4.145	1.228	0.000	0.897	0.596	11011	1.90	38455.8187	44044
5947	4.185	1.240	0.000	0.903	0.629	11011	1.14	38455.9097	44044
5947	4.278	1.302	0.000	0.950	0.601	11011	2.91	38505.6451	44044
5947	4.146	1.233	0.000	0.891	0.588	11011	1.14	38505.7743	44044
5947	4.153	1.213	0.000	0.902	0.616	11011	1.01	38505.8646	44044
5947	4.182	1.236	0.000	0.891	0.667	11011	1.10	38505.9271	44044
5947	4.223	1.239	0.000	0.887	0.563	11011	1.67	38529.6326	44044
5947	4.203	1.240	0.000	0.891	0.608	11011	1.10	38529.7229	44044
5947	4.184	1.222	0.000	0.897	0.634	11011	1.02	38529.8118	44044
5947	4.155	1.241	0.000	0.883	0.664	11011	1.51	38529.9382	44044
5947	4.211	1.218	0.000	0.842	0.598	11011	1.45	38530.6514	44044
5947	4.225	1.250	0.000	0.901	0.615	11011	1.07	38530.7326	44044
5947	4.163	1.227	0.000	0.900	0.648	11011	1.04	38530.8340	44044
5947	4.157	1.235	0.000	0.912	0.644	11011	1.45	38530.9285	44044
5947	4.190	1.226	0.000	0.892	0.624	11011	2.18	38531.5972	44044
5947	4.201	1.247	0.000	0.878	0.618	11011	1.26	38531.6764	44044
5947	4.191	1.238	0.000	0.851	0.600	11011	1.10	38532.7132	44044
5947	4.194	1.240	0.000	0.865	0.619	11011	1.01	38532.7674	44044
5947	4.202	1.238	0.000	0.884	0.633	11011	1.05	38532.8340	44044
5947	4.184	1.268	0.000	0.873	0.634	11011	1.42	38532.9194	44044
5947	4.145	1.251	0.000	0.857	0.574	11011	1.71	38533.6597	44044
5947	4.200	1.225	0.000	0.896	0.644	11011	1.03	38533.8132	44044
5947	4.132	1.245	1.251	0.000	0.000	11100	1.71	38812.8542	44400
5947	4.177	1.204	0.000	0.927	0.621	11011	1.57	38814.8607	22022
5947	4.143	1.235	0.000	0.910	0.594	11011	1.41	38815.8751	44044
5947	4.149	1.262	0.000	0.884	0.629	11011	1.02	38815.9792	44044
5947	4.131	1.208	0.000	0.920	0.613	11011	1.05	38816.9571	22022
5947	4.181	1.256	0.000	0.905	0.582	11011	1.58	38819.8453	22022
5947	4.134	1.248	0.000	0.890	0.596	11011	1.17	38819.9064	22022
5947	4.139	1.196	0.000	0.906	0.637	11011	1.03	38819.9626	22022
5947	4.137	1.232	0.000	0.884	0.608	11011	1.33	38822.8675	44044
5947	4.201	1.220	0.000	0.916	0.624	11011	1.01	38822.9772	44044
5947	4.127	1.261	0.000	0.861	0.611	11011	1.67	38823.8267	44044
5947	4.170	1.232	0.000	0.894	0.629	11011	1.13	38823.9078	44044
5947	4.206	1.217	0.000	0.926	0.647	11011	1.02	38823.9619	44044
5947	4.139	1.221	0.000	0.871	0.622	11011	1.37	38824.8557	44044
5947	4.103	1.237	0.000	0.886	0.594	11011	1.94	38825.8036	44044
5947	4.109	1.244	0.000	0.855	0.600	11011	1.29	38827.8600	44044
5947	4.196	1.218	0.000	0.920	0.638	11011	1.02	38827.9550	44044
5947	4.188	1.247	0.000	0.898	0.629	11011	2.04	38835.7710	44044
5947	4.176	1.220	0.000	0.905	0.609	11011	1.12	38835.8765	44044
5947	4.230	1.217	0.000	0.929	0.607	11011	2.13	38836.7640	44044
5947	4.216	1.240	0.000	0.891	0.622	11011	1.22	38836.8481	44044
5947	4.153	1.228	0.000	0.892	0.616	11011	1.03	38836.9161	44044
5947	4.191	1.226	0.000	0.925	0.595	11011	1.84	38837.7765	44044
5947	4.213	1.261	0.000	0.920	0.633	11011	2.09	38838.7606	44044
5947	4.103	1.258	0.000	0.846	0.619	11011	2.71	38839.7356	44044
5947	4.266	1.206	0.000	0.937	0.622	11011	1.35	38839.8183	44044
5947	4.225	1.270	0.000	0.911	0.611	11011	2.28	38841.7440	44044
5947	4.229	1.241	0.000	0.923	0.641	11011	1.01	38841.9390	44044
5947	4.159	1.228	0.000	0.887	0.607	11011	1.73	38842.7703	44044
5947	4.154	1.234	0.000	0.884	0.601	11011	1.23	38842.8307	44044
5947	4.223	1.258	0.000	0.932	0.620	11011	1.01	38842.9314	44044
5947	4.127	1.240	1.297	0.000	0.000	11100	1.37	38844.8017	44400
5947	4.157	1.229	1.272	0.000	0.000	11100	1.01	38844.9151	44400
5947	4.124	1.230	1.270	0.000	0.000	11100	1.38	38845.7971	44400
5947	4.143	1.256	1.252	0.000	0.000	11100	1.06	38845.8753	44400
5947	4.155	1.240	1.259	0.000	0.000	11100	1.01	38845.9291	44400
5947	4.169	1.234	1.267	0.000	0.000	11100	1.36	38873.7229	44400
5947	4.190	1.264	1.270	0.000	0.000	11100	1.03	38873.8201	44400
5948	3.390	-0.237	0.000	-0.127	-0.226	11011	1.85	38099.9764	44044
5948	3.427	-0.237	0.000	-0.108	-0.188	11011	1.95	38107.9917	44044
5948	3.392	-0.224	0.000	-0.159	-0.226	11011	1.96	38529.8410	44044
5948	3.403	-0.238	0.000	-0.133	-0.201	11011	1.88	38531.7611	44044
5948	3.459	-0.206	0.000	-0.160	-0.224	11011	1.87	38532.8069	44044
5953	2.274	-0.100	0.000	-0.129	-0.109	11011	1.42	38529.8458	44044
5962	4.641	0.903	0.000	0.677	0.531	11011	2.68	38113.9458	44044
5962	4.674	0.928	0.000	0.653	0.426	11011	2.75	38532.8167	44044
5967	4.895	-0.150	0.000	-0.037	-0.109	11011	1.87	38113.9507	44044
5967	4.902	-0.153	0.000	-0.069	-0.150	11011	1.97	38505.9083	44044
5967	4.868	-0.150	0.000	-0.117	-0.144	11011	2.02	38529.8514	44044
5980	4.721	0.209	0.000	0.204	0.128	11011	2.30	38113.9556	44044
5984	2.624	-0.076	0.000	-0.031	-0.107	11011	1.36	38505.9153	44044
5987	4.221	-0.185	0.000	-0.051	-0.158	11011	1.80	38113.9611	44044
5987	4.154	-0.192	0.000	-0.151	-0.187	11011	2.04	38529.8687	44044
6028	4.605	-0.155	0.000	-0.055	-0.160	11011	1.70	38450.9410	44044
6072	3.974	1.069	0.000	0.778	0.579	11011	2.82	38113.9660	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6074	5.786	0.056	0.000	0.038	-0.004	11011	1.12	38836.8883	44044
6074	5.832	0.076	0.000	0.086	-0.022	11011	1.06	38837.9119	44044
6074	5.828	0.040	0.000	0.089	0.003	11011	1.03	38841.9842	44044
6074	5.870	0.050	0.000	0.066	0.009	11011	1.06	38842.8994	44044
6076	6.293	1.093	0.000	0.774	0.610	11011	1.41	38836.9029	44044
6076	6.382	1.088	0.000	0.864	0.639	11011	1.29	38841.9531	44044
6076	6.398	1.112	0.000	0.848	0.618	11011	1.29	38842.9415	44044
6092	3.864	-0.150	0.000	-0.077	-0.168	11011	1.14	38133.9201	44044
6092	3.877	-0.175	0.000	-0.095	-0.184	11011	1.13	38136.9056	44044
6092	3.876	-0.161	-0.558	0.000	0.000	11100	1.32	38166.6986	44400
6092	3.857	-0.174	-0.556	0.000	0.000	11100	1.13	38166.7799	44400
6092	3.836	-0.187	-0.570	0.000	0.000	11100	1.15	38166.8403	44400
6092	3.870	-0.160	-0.554	0.000	0.000	11100	1.39	38166.9181	44400
6092	3.839	-0.159	-0.594	0.000	0.000	11100	1.13	38170.7771	22200
6092	3.842	-0.166	-0.591	0.000	0.000	11100	1.16	38171.8340	22200
6092	3.825	-0.185	-0.555	0.000	0.000	11100	1.13	38173.7785	22200
6092	4.028	-0.138	-0.590	0.000	0.000	11100	1.37	38173.8955	22200
6092	3.908	-0.145	-0.548	0.000	0.000	11100	1.13	38174.7729	22200
6092	3.903	-0.168	-0.551	0.000	0.000	11100	1.42	38174.9028	22200
6092	3.910	-0.152	-0.575	0.000	0.000	11100	1.13	38178.7549	22200
6092	3.892	-0.152	-0.525	0.000	0.000	11100	1.56	38178.9118	22200
6092	3.841	-0.151	-0.541	0.000	0.000	11100	1.13	38179.7708	44400
6092	3.862	-0.164	-0.574	0.000	0.000	11100	1.15	38180.8035	44400
6092	3.946	-0.200	-0.524	0.000	0.000	11100	1.36	38180.8750	44400
6092	3.933	-0.145	0.000	-0.095	-0.180	11011	1.13	38197.7035	44044
6092	3.851	-0.174	0.000	-0.090	-0.177	11011	1.74	38437.8965	22022
6092	3.894	-0.146	0.000	-0.072	-0.181	11011	1.39	38438.9396	44044
6092	3.923	-0.166	0.000	-0.063	-0.181	11011	1.26	38440.9653	44044
6092	3.951	-0.164	0.000	-0.045	-0.170	11011	1.18	38440.9937	44044
6092	3.889	-0.156	0.000	-0.073	-0.188	11011	1.29	38442.9424	44044
6092	3.891	-0.160	0.000	-0.069	-0.167	11011	1.20	38442.9799	44044
6092	3.873	-0.147	0.000	-0.070	-0.195	11011	1.25	38443.9583	44044
6092	3.862	-0.139	0.000	-0.088	-0.182	11011	1.18	38443.9847	44044
6092	3.946	-0.148	0.000	-0.062	-0.193	11011	1.94	38450.8444	44044
6092	3.919	-0.162	0.000	-0.075	-0.177	11011	1.19	38450.9611	44044
6092	3.842	-0.168	0.000	-0.067	-0.184	11011	1.86	38451.8472	44044
6092	3.914	-0.134	0.000	-0.073	-0.189	11011	2.05	38455.8229	44044
6092	3.953	-0.166	0.000	-0.038	-0.205	11011	1.29	38455.9139	44044
6092	4.000	-0.050	0.000	-0.072	-0.177	11011	2.88	38505.6507	44044
6092	3.908	-0.158	0.000	-0.075	-0.209	11011	1.28	38505.7799	44044
6092	3.941	-0.179	0.000	-0.051	-0.191	11011	1.13	38505.8701	44044
6092	3.922	-0.157	0.000	-0.069	-0.164	11011	1.16	38505.9215	44044
6092	3.940	-0.135	0.000	-0.116	-0.221	11011	1.82	38529.6375	44044
6092	3.954	-0.151	0.000	-0.082	-0.196	11011	1.27	38529.7181	44044
6092	3.930	-0.156	0.000	-0.087	-0.166	11011	1.13	38529.8167	44044
6092	3.896	-0.175	0.000	-0.076	-0.151	11011	1.51	38529.9444	44044
6092	3.961	-0.161	0.000	-0.088	-0.226	11011	1.61	38530.6556	44044
6092	3.960	-0.163	0.000	-0.074	-0.213	11011	1.23	38530.7271	44044
6092	3.929	-0.143	0.000	-0.093	-0.155	11011	1.15	38530.8396	44044
6092	3.899	-0.155	0.000	-0.096	-0.136	11011	1.47	38530.9361	44044
6092	3.936	-0.138	0.000	-0.105	-0.156	11011	2.28	38531.6028	44044
6092	3.941	-0.153	0.000	-0.086	-0.199	11011	1.42	38531.6806	44044
6092	3.925	-0.139	0.000	-0.119	-0.207	11011	1.24	38532.7181	44044
6092	3.880	-0.117	0.000	-0.112	-0.191	11011	1.14	38532.7722	44044
6092	3.927	-0.151	0.000	-0.095	-0.173	11011	1.15	38532.8389	44044
6092	3.943	-0.085	0.000	-0.059	-0.169	11011	1.37	38532.9132	44044
6092	3.969	-0.122	0.000	-0.078	-0.223	11011	1.48	38533.6653	44044
6092	3.923	-0.164	0.000	-0.082	-0.208	11011	1.13	38533.8194	44044
6092	3.917	-0.170	-0.545	0.000	0.000	11100	1.85	38812.8597	44400
6092	3.886	-0.137	0.000	-0.080	-0.182	11011	1.72	38814.8661	22022
6092	3.888	-0.146	0.000	-0.060	-0.191	11011	1.66	38815.8700	44044
6092	3.906	-0.143	0.000	-0.061	-0.177	11011	1.15	38815.9843	44044
6092	3.862	-0.157	0.000	-0.044	-0.176	11011	1.19	38816.9612	22022
6092	3.946	-0.127	0.000	-0.074	-0.188	11011	1.74	38819.8501	22022
6092	3.858	-0.142	0.000	-0.070	-0.201	11011	1.28	38819.9203	22022
6092	3.861	-0.193	0.000	-0.050	-0.182	11011	1.18	38819.9585	22022
6092	3.889	-0.168	0.000	-0.052	-0.194	11011	1.49	38822.8717	44044
6092	3.935	-0.142	0.000	-0.073	-0.177	11011	1.14	38822.9814	44044
6092	3.874	-0.118	0.000	-0.068	-0.217	11011	1.95	38823.8224	44044
6092	3.887	-0.153	0.000	-0.065	-0.200	11011	1.31	38823.9036	44044
6092	3.962	-0.169	0.000	-0.040	-0.171	11011	1.15	38823.9661	44044
6092	3.870	-0.134	0.000	-0.050	-0.203	11011	1.54	38824.8599	44044
6092	3.875	-0.154	0.000	-0.071	-0.171	11011	2.08	38825.8085	44044
6092	3.885	-0.204	0.000	-0.051	-0.209	11011	1.45	38825.8689	44044
6092	3.823	-0.158	0.000	-0.108	-0.194	11011	1.51	38827.8557	44044
6092	3.906	-0.176	0.000	-0.081	-0.170	11011	1.14	38827.9592	44044
6092	3.924	-0.131	0.000	-0.092	-0.172	11011	2.17	38835.7758	44044
6092	3.926	-0.164	0.000	-0.054	-0.187	11011	1.30	38835.8717	44044
6092	3.998	-0.134	0.000	-0.033	-0.169	11011	2.46	38836.7592	44044
6092	3.918	-0.112	0.000	-0.075	-0.202	11011	1.42	38836.8439	44044
6092	3.873	-0.193	0.000	-0.085	-0.191	11011	1.16	38836.9203	44044
6092	3.937	-0.155	0.000	-0.029	-0.196	11011	2.00	38837.7807	44044
6092	3.992	-0.117	0.000	-0.056	-0.138	11011	2.41	38838.7558	44044
6092	3.959	-0.183	0.000	-0.112	-0.210	11011	3.05	38839.7314	44044
6092	3.988	-0.126	0.000	-0.127	-0.267	11011	1.51	38839.8231	44044
6092	3.969	-0.082	0.000	-0.071	-0.177	11011	2.60	38841.7399	44044
6092	3.970	-0.160	0.000	-0.031	-0.181	11011	1.13	38841.9487	44044
6092	3.885	-0.163	0.000	-0.067	-0.186	11011	1.90	38842.7744	44044
6092	3.900	-0.154	0.000	-0.081	-0.168	11011	1.38	38842.8349	44044
6092	3.942	-0.105	0.000	-0.104	-0.160	11011	1.13	38842.9357	44044
6092	3.860	-0.113	-0.553	0.000	0.000	11100	1.54	38844.8052	44400
6092	3.867	-0.163	-0.575	0.000	0.000	11100	1.14	38844.9186	44400
6092	3.847	-0.165	-0.574	0.000	0.000	11100	1.55	38845.8006	44400
6092	3.888	-0.138	-0.567	0.000	0.000	11100	1.20	38845.8784	44400
6092	3.874	-0.148	-0.571	0.000	0.000	11100	1.13	38845.9326	44400
6092	3.934	-0.140	-0.571	0.000	0.000	11100	1.52	38873.7285	44400
6092	3.923	-0.141	-0.534	0.000	0.000	11100	1.15	38873.8250	44400
6115	4.963	-0.074	0.000	0.041	-0.037	01011	2.53	38113.9715	4004
6143	4.234	-0.168	0.000	-0.057	-0.148	11011	1.71	38113.9757	44044
6165	2.864	-0.247	0.000	-0.142	-0.249	11011	1.50	38530.8458	44044
6166	4.178	1.559	0.000	1.226	0.996	11011	1.73	38107.9986	44044
6166	4.078	1.638	0.000	1.182	0.992	11011	1.73	38113.9806	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
6175	2.575	-0.004	0.000	0.109	-0.043	11011	1.15	38099.9847	44044
6175	2.631	0.018	0.000	0.102	-0.008	11011	1.15	38121.9347	44044
6241	2.283	1.175	0.000	0.856	0.605	11011	1.68	38113.9854	44044
6247	2.916	-0.239	0.000	-0.122	-0.200	11011	1.93	38529.8722	44044
6247	3.120	-0.203	0.000	-0.118	-0.185	11011	1.86	38530.8507	44044
6252	3.527	-0.225	0.000	-0.135	-0.225	11011	1.94	38529.8764	44044
6252	3.592	-0.209	0.000	-0.127	-0.219	11011	1.87	38530.8556	44044
6292	6.080	0.913	0.000	0.678	0.440	11011	1.20	38836.8925	44044
6292	6.147	0.921	0.000	0.725	0.521	11011	1.01	38841.9800	44044
6292	6.155	0.940	0.000	0.692	0.484	11011	1.10	38842.9043	44044
6334	4.853	0.246	0.000	0.333	0.186	11011	1.67	38112.9639	44044
6334	4.864	0.283	0.000	0.223	0.152	11011	1.67	38532.8458	44044
6380	3.353	0.411	0.000	0.392	0.248	11011	2.15	38112.9687	44044
6380	3.301	0.416	0.000	0.319	0.164	11011	2.15	38532.8514	44044
6453	3.225	-0.237	0.000	-0.147	-0.202	11011	1.42	38529.8819	44044
6453	3.275	-0.202	0.000	-0.137	-0.223	11011	1.39	38530.8604	44044
6492	4.256	0.401	0.000	0.276	0.175	11011	1.52	38532.8569	44044
6508	2.695	-0.198	0.000	-0.127	-0.206	11011	1.82	38112.9757	44044
6508	2.656	-0.220	0.000	-0.193	-0.267	11011	1.81	38532.8611	44044
6510	2.951	-0.176	0.000	-0.103	-0.236	11011	2.79	38532.8667	44044
6527	1.580	-0.177	0.000	-0.166	-0.279	11011	1.81	38532.8715	44044
6537	4.586	-0.006	0.000	-0.006	-0.056	11011	2.45	38532.8764	44044
6546	4.258	1.075	0.000	0.749	0.552	11011	1.91	38532.8819	44044
6553	1.860	0.396	0.000	0.336	0.206	11011	2.19	38532.8861	44044
6553	1.864	0.405	0.000	0.365	0.198	11011	2.28	38532.9014	44044
6569	4.750	0.399	0.000	0.294	0.213	11011	2.82	38532.8910	44044
6580	2.472	-0.187	0.000	-0.104	-0.238	11011	2.02	38532.9062	44044
6603	2.834	1.209	0.000	0.853	0.537	11011	2.53	38837.8361	44044
6603	2.840	1.183	0.000	0.881	0.543	11011	2.95	38838.8231	44044
6603	2.862	1.162	0.000	0.913	0.565	11011	6.10	38839.7893	44044
6603	2.844	1.162	0.000	0.844	0.567	11011	1.04	38841.9932	44044
6603	2.781	1.166	0.000	0.870	0.543	11011	3.83	38842.7983	44044
6603	2.860	1.181	0.000	0.827	0.574	11011	1.07	38842.9654	44044
6603	2.811	1.242	1.252	0.000	0.000	11100	2.09	38844.8325	44400
6603	2.773	1.170	1.247	0.000	0.000	11100	1.18	38844.9220	44400
6603	2.670	1.059	1.248	0.000	0.000	11100	2.74	38845.8088	44400
6603	2.707	1.161	1.227	0.000	0.000	11100	1.32	38845.8913	44400
6603	2.723	1.161	1.232	0.000	0.000	11100	1.06	38845.9649	44400
6629	3.804	0.067	0.000	0.042	-0.033	11011	2.57	38837.8397	44044
6629	3.838	0.028	0.000	0.062	-0.007	11011	2.99	38838.8272	44044
6629	3.805	0.088	0.000	0.011	0.039	11011	6.00	38839.7946	44044
6629	3.793	0.015	0.000	0.076	-0.020	11011	1.05	38841.9974	44044
6629	3.791	0.053	0.000	0.062	-0.006	11011	3.73	38842.8044	44044
6629	3.809	0.053	0.000	0.033	-0.020	11011	1.08	38842.9694	44044
6629	3.758	0.128	0.027	0.000	0.000	11100	2.13	38844.8358	44400
6629	3.713	0.047	0.053	0.000	0.000	11100	1.19	38844.9255	44400
6629	3.662	-0.017	-0.030	0.000	0.000	11100	2.72	38845.8141	44400
6629	3.690	0.029	0.031	0.000	0.000	11100	1.34	38845.8948	44400
6629	3.659	0.038	0.041	0.000	0.000	11100	1.07	38845.9687	44400
6705	2.169	1.481	0.000	1.147	0.779	11011	1.41	38836.9251	44044
6746	2.978	1.032	0.000	0.725	0.516	11011	1.54	38529.8903	44044
6766	4.543	0.973	0.000	0.705	0.524	11011	1.48	38529.8951	44044
6783	4.499	0.995	0.000	0.695	0.481	11011	2.37	38529.8993	44044
6832	3.072	1.547	0.000	1.563	1.312	11011	1.79	38529.9049	44044
6842	4.642	1.680	0.000	1.206	0.933	11011	1.46	38529.9104	44044
6859	2.703	1.379	0.000	0.986	0.677	11011	1.54	38529.9160	44044
6879	1.772	-0.027	0.000	-0.002	-0.003	11011	1.71	38529.9201	44044
6897	3.425	-0.186	0.000	-0.132	-0.205	11011	2.42	38529.9250	44044
6913	2.825	1.058	0.000	0.744	0.595	11011	1.44	38529.9306	44044
6951	4.654	1.022	0.000	0.689	0.505	11011	2.12	38530.8722	44044
7029	4.845	-0.138	0.000	-0.144	-0.155	11011	1.76	38530.8778	44044
7039	3.178	-0.097	0.000	-0.051	-0.098	11011	1.45	38530.8861	44044
7121	2.063	-0.191	0.000	-0.127	-0.227	11011	1.43	38530.8951	44044
7178	3.185	-0.090	0.000	0.036	-0.090	11011	1.54	38836.9294	44044
7194	2.608	0.079	0.000	0.026	0.008	11011	1.53	38530.9028	44044
7234	3.318	1.194	0.000	0.871	0.605	11011	1.46	38530.9069	44044
7254	4.076	0.022	0.000	0.037	0.000	11011	1.83	38530.9146	44044
7259	4.121	1.191	0.000	0.822	0.607	11011	1.90	38530.9208	44044
7429	4.540	1.137	0.000	1.034	0.598	11011	1.57	38699.6179	44044
7429	4.509	1.199	0.000	0.907	0.625	11011	1.21	38700.5667	44044
7429	4.500	1.210	0.000	0.886	0.618	11011	1.20	38701.5628	44044
7429	4.489	1.193	0.000	0.892	0.654	11011	1.17	38702.5524	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
7446	4.883	0.004	0.000	0.084	-0.064	11011	1.34	38113.9910	44044
7446	4.959	0.016	-0.856	0.000	0.000	11100	1.87	38166.7931	44400
7446	4.886	-0.026	-0.902	0.000	0.000	11100	1.12	38166.9278	44400
7446	4.976	-0.048	-0.894	0.000	0.000	11100	1.28	38170.8469	22200
7446	5.016	-0.014	-0.835	0.000	0.000	11100	1.27	38171.8472	22200
7446	4.898	-0.020	-0.853	0.000	0.000	11100	1.45	38173.8104	22200
7446	4.887	-0.003	-0.933	0.000	0.000	11100	1.11	38173.9167	22200
7446	5.060	0.043	-0.904	0.000	0.000	11100	1.44	38174.8097	22200
7446	4.870	-0.038	-0.904	0.000	0.000	11100	1.11	38174.9125	22200
7446	4.909	0.010	-0.931	0.000	0.000	11100	1.31	38178.8187	22200
7446	4.837	-0.006	-0.900	0.000	0.000	11100	1.11	38178.8979	22200
7446	4.948	-0.030	-0.870	0.000	0.000	11100	1.32	38179.8139	44400
7446	5.081	-0.029	1.519	0.000	0.000	11100	1.12	38180.8910	44400
8151	4.806	0.010	0.000	0.086	0.046	11011	2.15	38348.5639	44044
8305	4.328	-0.050	0.000	-0.008	-0.027	11011	1.70	38348.5701	44044
8353	2.990	-0.097	0.000	-0.047	-0.059	11011	1.89	38348.5750	44044
8411	4.488	1.383	0.000	0.999	0.780	11011	1.99	38348.5806	44044
8425	1.681	-0.167	0.000	-0.079	-0.060	11011	2.61	38348.5875	44044
8431	4.486	0.056	0.000	0.073	0.050	11011	1.73	38348.5924	44044
8521	6.697	1.943	0.000	3.588	2.709	11011	2.37	38699.5950	44044
8521	6.587	2.032	0.000	3.446	2.613	11011	2.37	38700.5942	44044
8521	6.592	2.067	0.000	3.386	2.596	11011	2.37	38701.5900	44044
8521	6.542	2.071	0.000	3.353	2.643	11011	2.37	38702.5794	44044
8556	3.988	1.026	0.000	0.731	0.610	11011	2.29	38348.6021	44044
8560	4.139	1.569	0.000	1.727	1.597	11011	2.34	38348.6076	44044
8576	4.272	-0.000	0.000	0.023	0.014	11011	1.72	38348.6125	44044
8622	4.891	-0.188	0.000	-0.076	-0.245	11011	2.94	38133.9340	44044
8622	4.879	-0.174	-1.056	0.000	0.000	11100	2.84	38166.8465	44400
8622	4.759	-0.199	-1.040	0.000	0.000	11100	1.42	38166.9326	44400
8622	4.868	-0.192	-1.089	0.000	0.000	11100	1.37	38173.9222	22200
8622	4.863	-0.229	-1.042	0.000	0.000	11100	1.39	38174.9167	22200
8622	4.879	-0.200	0.000	-0.103	-0.185	11011	1.78	38342.7528	44044
8622	4.874	-0.192	0.000	-0.097	-0.219	11011	1.08	38345.5417	22022
8622	4.871	-0.213	0.000	-0.053	-0.191	11011	1.34	38345.6931	22022
8622	4.856	-0.213	0.000	-0.085	-0.248	11011	1.07	38348.5500	44044
8622	4.865	-0.214	0.000	-0.080	-0.217	11011	1.11	38348.6201	44044
8622	4.886	-0.185	0.000	-0.081	-0.148	11011	1.59	38348.7187	44044
8622	4.884	-0.210	0.000	-0.042	-0.193	11011	1.06	38350.5556	44044
8622	4.867	-0.181	0.000	-0.083	-0.175	11011	1.11	38350.6146	44044
8622	4.888	-0.205	0.000	-0.061	-0.191	11011	2.79	38350.7785	44044
8622	4.890	-0.203	0.000	-0.044	-0.192	11011	1.06	38351.5493	44044
8622	4.885	-0.222	0.000	-0.063	-0.157	11011	2.72	38351.7736	44044
8622	4.861	-0.191	0.000	-0.062	-0.197	11011	1.06	38352.5486	44044
8622	4.928	-0.202	0.000	-0.053	-0.138	11011	2.25	38352.7535	44044
8622	4.898	-0.221	0.000	-0.044	-0.185	11011	1.06	38353.5479	44044
8622	4.894	-0.210	0.000	-0.052	-0.161	11011	1.61	38353.7083	44044
8622	4.900	-0.209	0.000	-0.042	-0.188	11011	1.06	38354.5556	44044
8622	4.909	-0.229	0.000	-0.035	-0.174	11011	1.86	38354.7264	44044
8622	4.879	-0.188	0.000	-0.069	-0.174	11011	1.08	38355.5764	44044
8622	4.884	-0.230	0.000	-0.051	-0.175	11011	1.06	38356.5486	44044
8622	4.881	-0.177	0.000	-0.076	-0.160	11011	2.17	38356.7389	44044
8622	4.842	-0.196	0.000	-0.102	-0.204	11011	1.08	38368.5410	22022
8622	4.775	-0.197	0.000	-0.081	-0.217	11011	1.11	38370.5611	22022
8622	4.955	-0.197	0.000	-0.079	-0.203	11011	1.48	38370.6472	22022
8622	4.883	-0.206	0.000	-0.082	-0.193	11011	1.12	38373.5562	22022
8622	4.872	-0.200	0.000	-0.088	-0.198	11011	1.14	38374.5618	22022
8622	4.859	-0.198	0.000	-0.076	-0.190	11011	1.82	38374.6687	22022
8622	4.901	-0.192	0.000	-0.075	-0.207	11011	1.15	38376.5604	22022
8622	4.907	-0.203	0.000	-0.056	-0.184	11011	1.34	38376.6090	22022
8622	4.935	-0.181	0.000	-0.041	-0.195	11011	1.90	38376.6687	22022
8622	4.907	-0.200	0.000	-0.053	-0.188	11011	1.15	38386.5326	44044
8622	4.947	-0.216	0.000	-0.052	-0.214	11011	1.17	38388.5354	44044
8622	4.885	-0.196	0.000	-0.068	-0.202	11011	1.21	38389.5465	44044
8622	4.933	-0.214	0.000	-0.035	-0.186	11011	1.24	38391.5486	44044
8622	4.899	-0.227	0.000	-0.040	-0.175	11011	1.54	38391.5972	44044
8622	4.899	-0.209	0.000	-0.030	-0.179	11011	1.58	38391.6014	44044
8622	4.873	-0.198	0.000	-0.064	-0.192	11011	1.30	38400.5354	44044
8622	4.859	-0.212	0.000	-0.084	-0.233	11011	2.64	38400.6375	44044
8622	4.874	-0.211	0.000	-0.077	-0.202	11011	1.35	38403.5368	22022
8622	4.859	-0.214	0.000	-0.059	-0.158	11011	1.55	38407.5542	44044
8622	4.914	-0.215	0.000	-0.041	-0.160	11011	1.82	38409.5729	44044
8622	4.807	-0.224	0.000	-0.051	-0.210	11011	1.83	38413.5632	44044
8622	4.893	-0.207	0.000	-0.081	-0.210	11011	2.39	38414.5903	44044
8622	4.835	-0.187	0.000	-0.105	-0.209	11011	1.08	38699.5756	44044
8622	4.909	-0.263	0.000	-0.021	-0.181	11011	1.08	38699.6382	44044
8622	4.897	-0.254	0.000	-0.045	-0.223	11011	1.07	38700.5789	44044
8622	4.890	-0.234	0.000	-0.066	-0.190	11011	1.07	38700.6260	44044
8622	4.866	-0.235	0.000	-0.052	-0.202	11011	1.51	38700.7464	44044
8622	4.889	-0.256	0.000	-0.053	-0.217	11011	1.08	38701.5683	44044
8622	4.890	-0.243	0.000	-0.047	-0.176	11011	1.44	38701.7350	44044
8622	4.872	-0.245	0.000	-0.053	-0.229	11011	1.09	38702.5568	44044
8622	4.902	-0.251	0.000	-0.026	-0.155	11011	1.76	38702.7658	44044
8622	4.887	-0.248	0.000	-0.093	-0.177	11011	1.28	38705.6962	22022
8622	4.935	-0.237	0.000	-0.033	-0.237	11011	1.10	38707.5364	44044
8622	4.839	-0.175	0.000	-0.101	-0.123	11011	2.69	38707.7982	44044
8622	4.815	-0.187	-1.018	0.000	0.000	11100	1.40	38733.6424	44400
8622	4.909	-0.247	-0.956	0.000	0.000	11100	3.96	38733.7535	44400
8622	4.864	-0.200	0.000	-0.085	-0.195	11011	1.07	38735.5340	44044
8622	4.957	-0.227	0.000	-0.039	-0.177	11011	1.34	38736.6246	44044
8622	4.860	-0.201	0.000	-0.058	-0.196	11011	1.11	38738.5544	22022
8622	4.898	-0.241	0.000	-0.049	-0.200	11011	1.11	38742.5403	44044
8622	4.895	-0.234	0.000	-0.051	-0.210	11011	1.85	38742.6637	44044
8622	4.908	-0.242	0.000	-0.016	-0.210	11011	1.38	38760.5644	44044
8622	4.875	-0.236	0.000	-0.048	-0.225	11011	1.30	38761.5486	44044
8622	4.879	-0.230	0.000	-0.048	-0.215	11011	1.30	38762.5458	44044
8622	5.014	-0.175	0.000	-0.049	-0.161	11011	1.64	38764.5858	44044
8622	4.907	-0.248	0.000	-0.070	-0.156	11011	1.47	38773.5431	44044
8622	4.856	-0.191	0.000	-0.087	-0.193	11011	1.58	38774.5525	44044

TABLE 6 TONANTZINTLA BVRI AND UBV OBSERVATIONS

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8622	4.691	-0.244	0.000	-0.126	-0.251	11011	2.18	38790.5518	44044
8622	4.875	-0.193	0.000	-0.093	-0.237	11011	2.27	38793.5481	44044
8636	2.208	1.628	0.000	1.911	1.772	11011	3.02	38348.6479	44044
8644	4.840	1.019	0.000	0.760	0.647	11011	2.51	38348.6528	44044
8695	4.454	-0.053	0.000	0.021	0.019	11011	1.95	38348.6576	44044
8720	4.234	0.980	0.000	0.739	0.606	11011	1.97	38348.6639	44044
8820	3.945	1.003	0.000	0.733	0.628	11011	2.90	38348.6715	44044
8820	3.947	1.027	0.000	0.774	0.495	11011	2.70	38376.5819	22022
8832	5.589	0.969	0.897	0.000	0.000	11100	2.99	38166.8562	44400
8832	5.512	1.016	0.900	0.000	0.000	11100	1.74	38166.9368	44400
8832	5.702	1.043	0.860	0.000	0.000	11100	1.68	38173.9264	22200
8832	5.552	0.998	0.849	0.000	0.000	11100	1.70	38174.9201	22200
8832	5.843	0.990	0.839	0.000	0.000	11100	1.76	38180.8965	44400
8832	5.590	0.990	0.000	0.873	0.540	11011	1.65	38342.7451	44044
8832	5.531	1.009	0.000	0.818	0.516	11011	1.31	38345.5493	22022
8832	5.544	0.998	0.000	0.846	0.580	11011	1.41	38345.6882	22022
8832	5.580	1.055	0.000	0.832	0.547	11011	1.28	38348.5576	44044
8832	5.587	1.016	0.000	0.866	0.561	11011	1.29	38348.6257	44044
8832	5.595	0.993	0.000	0.845	0.608	11011	1.61	38348.7236	44044
8832	5.556	1.012	0.000	0.847	0.516	11011	1.28	38350.5618	44044
8832	5.578	1.003	0.000	0.845	0.512	11011	1.28	38350.6097	44044
8832	5.548	1.034	0.000	0.837	0.521	11011	2.34	38350.7875	44044
8832	5.562	1.020	0.000	0.839	0.504	11011	1.28	38351.5549	44044
8832	5.568	1.018	0.000	0.839	0.566	11011	2.27	38351.7806	44044
8832	5.567	1.014	0.000	0.833	0.503	11011	1.27	38352.5590	44044
8832	5.577	1.038	0.000	0.821	0.571	11011	2.19	38352.7722	44044
8832	5.600	1.007	0.000	0.845	0.514	11011	1.27	38353.5590	44044
8832	5.581	1.080	0.000	0.833	0.541	11011	1.63	38353.7125	44044
8832	5.586	1.018	0.000	0.852	0.504	11011	1.27	38354.5611	44044
8832	5.638	0.981	0.000	0.908	0.538	11011	1.81	38354.7333	44044
8832	5.595	1.001	0.000	0.846	0.510	11011	1.27	38355.5819	44044
8832	5.539	1.017	0.000	0.814	0.501	11011	1.27	38356.5521	44044
8832	5.579	1.019	0.000	0.850	0.542	11011	1.97	38356.7444	44044
8832	5.581	1.051	0.000	0.826	0.553	11011	1.27	38368.5444	22022
8832	5.474	1.030	0.000	0.801	0.509	11011	1.29	38370.5660	22022
8832	5.636	1.010	0.000	0.859	0.491	11011	1.54	38370.6507	22022
8832	5.576	1.021	0.000	0.828	0.573	11011	1.29	38373.5618	22022
8832	5.576	1.021	0.000	0.829	0.553	11011	1.31	38374.5729	22022
8832	5.556	1.015	0.000	0.838	0.551	11011	1.76	38374.6729	22022
8832	5.606	1.028	0.000	0.814	0.582	11011	1.31	38376.5674	22022
8832	5.602	1.044	0.000	0.860	0.545	11011	1.44	38376.6132	22022
8832	5.612	1.056	0.000	0.854	0.577	11011	1.82	38376.6743	22022
8832	5.578	1.026	0.000	0.827	0.490	11011	1.31	38386.5382	44044
8832	5.633	1.023	0.000	0.838	0.504	11011	1.33	38388.5410	44044
8832	5.603	0.993	0.000	0.829	0.459	11011	1.36	38389.5507	44044
8832	5.608	0.991	0.000	0.869	0.521	11011	1.38	38391.5556	44044
8832	5.575	1.012	0.000	0.840	0.541	11011	1.61	38391.6056	44044

TONANTZINTLA BVRI - UBV

B.S.	V	B-V	U-B	V-R	R-I	WTS.	AIR	J.D.	CNT.
8832	5.580	0.995	0.000	0.841	0.530	11011	1.64	38391.6097	44044
8832	5.562	1.023	0.000	0.827	0.572	11011	1.42	38400.5403	44044
8832	5.561	1.018	0.000	0.862	0.552	11011	2.21	38400.6424	44044
8832	5.586	1.010	0.000	0.851	0.551	11011	1.45	38403.5410	22022
8832	5.556	1.012	0.000	0.859	0.559	11011	1.59	38407.5590	44044
8832	5.571	1.000	0.000	0.845	0.549	11011	1.76	38409.5778	44044
8832	5.577	1.014	0.000	0.869	0.485	11011	1.77	38413.5674	44044
8832	5.573	1.033	0.000	0.857	0.531	11011	1.30	38699.5853	44044
8832	5.577	1.009	0.000	0.864	0.485	11011	1.27	38699.6322	44044
8832	5.597	1.022	0.000	0.854	0.521	11011	1.32	38700.5737	44044
8832	5.580	1.058	0.000	0.838	0.534	11011	1.27	38700.6335	44044
8832	5.591	0.993	0.000	0.875	0.552	11011	1.57	38700.7531	44044
8832	5.535	1.045	0.000	0.789	0.508	11011	1.31	38701.5739	44044
8832	5.603	1.013	0.000	0.852	0.576	11011	1.52	38701.7407	44044
8832	5.536	1.048	0.000	0.813	0.533	11011	1.33	38702.5621	44044
8832	5.570	1.020	0.000	0.834	0.589	11011	1.65	38702.7608	44044
8832	5.574	1.042	0.000	0.796	0.552	11011	1.41	38705.7025	22022
8832	5.600	1.003	0.000	0.840	0.511	11011	1.34	38707.5444	44044
8832	5.534	1.002	0.000	0.860	0.585	11011	2.07	38707.7919	44044
8832	5.629	1.015	0.941	0.000	0.000	11100	1.50	38733.6486	44400
8832	5.593	0.976	0.942	0.000	0.000	11100	2.53	38733.7493	44400
8832	5.558	1.032	0.000	0.821	0.523	11011	1.27	38735.5385	44044
8832	5.587	1.014	0.000	0.873	0.556	11011	1.45	38736.6292	44044
8832	5.587	1.021	0.000	0.866	0.543	11011	1.29	38738.5594	22022
8832	5.588	0.980	0.000	0.846	0.545	11011	1.29	38742.5468	44044
8832	5.577	0.993	0.000	0.868	0.527	11011	1.68	38742.6551	44044
8832	5.573	1.031	0.000	0.815	0.550	11011	1.48	38760.5708	44044
8832	5.521	1.019	0.000	0.832	0.489	11011	1.42	38761.5537	44044
8832	5.588	1.006	0.000	0.834	0.541	11011	1.42	38762.5508	44044
8832	5.666	1.025	0.000	0.872	0.547	11011	1.65	38764.5903	44044
8832	5.585	1.043	0.000	0.812	0.565	11011	1.54	38773.5478	44044
8832	5.535	1.012	0.000	0.811	0.551	11011	1.61	38774.5572	44044
8832	5.410	0.988	0.000	0.822	0.510	11011	1.97	38790.5567	44044
8832	5.560	1.014	0.000	0.821	0.534	11011	2.02	38793.5529	44044
8863	4.486	1.168	0.000	0.831	0.673	11011	1.94	38348.6771	44044
8863	4.456	1.152	0.000	0.856	0.586	11011	1.82	38376.5861	22022
8937	4.398	-0.100	0.000	-0.000	-0.038	11011	2.21	38348.6847	44044
8937	4.412	-0.082	0.000	-0.005	-0.099	11011	2.05	38376.5910	22022
8949	4.721	0.077	0.000	0.120	0.129	11011	2.64	38348.6903	44044
8949	4.736	0.117	0.000	0.127	0.012	11011	2.41	38376.5951	22022
8959	4.731	0.071	0.000	0.103	0.054	11011	2.44	38373.5778	22022
8959	4.780	0.087	0.000	0.121	0.037	11011	2.71	38376.5993	22022
9016	4.606	-0.008	0.000	0.055	-0.023	11011	1.64	38376.6035	22022
9091	5.081	-0.134	0.000	-0.033	-0.089	11011	1.58	38368.6104	22022
9091	4.924	-0.141	0.000	-0.044	-0.161	11011	1.52	38370.5736	22022
9091	5.030	-0.126	0.000	-0.032	-0.141	11011	1.61	38374.6021	22022

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
3	2.255	0.720	0.000	0.133	1101	1.28	38637.8773	1101
3	2.265	0.688	0.000	-0.046	1101	1.29	38638.8461	1101
3	2.228	0.685	0.000	0.130	1101	1.28	38639.8693	1101
15	2.346	-0.079	-0.221	0.000	1110	1.00	38260.9109	3330
15	2.423	-0.104	-0.182	0.000	1110	1.00	38291.8186	1110
15	0.000	-0.040	-0.199	0.000	0110	1.09	38291.8934	1110
15	2.418	-0.022	-0.163	0.000	1110	1.05	38299.7405	1110
21	1.429	0.174	0.282	0.000	1110	1.12	38300.8161	3330
21	1.462	0.187	0.318	0.000	1110	1.12	38317.7521	1110
21	1.544	0.154	0.266	0.000	1110	1.12	38323.7368	1110
27	3.807	0.241	0.477	0.000	1110	1.13	38396.6201	1110
39	3.372	-0.040	-0.300	0.000	1110	1.06	38300.8218	3330
39	3.487	-0.173	-0.384	0.000	1110	1.05	38317.7576	1110
39	3.538	-0.167	-0.369	0.000	1110	1.05	38323.7418	1110
39	3.536	-0.197	0.000	-0.040	1101	1.10	39076.7260	1101
39	3.665	-0.205	0.000	0.045	0101	1.13	39133.5836	1101
39	3.607	-0.190	0.000	-0.014	0101	1.13	39135.5790	1101
45	0.606	1.057	1.679	0.000	1110	1.06	38300.8446	3330
45	0.576	1.065	1.681	0.000	1110	1.03	38317.7625	1110
45	0.683	0.998	1.628	0.000	1110	1.03	38323.7471	1110
45	0.678	0.987	1.600	0.000	1110	1.11	38345.7451	1110
45	0.599	1.093	1.674	0.000	1110	1.03	38361.6103	1110
45	0.637	1.040	1.658	0.000	1110	1.06	38367.6611	1110
45	0.711	0.980	1.633	0.000	1110	1.05	38369.5696	1110
45	0.616	1.001	1.665	0.000	1110	1.03	38370.6204	3330
45	0.588	1.046	1.664	0.000	1110	1.04	38377.6197	3330
45	0.591	1.062	1.685	0.000	1110	1.04	38378.6207	3330
45	0.630	1.024	1.667	0.000	1110	1.02	38381.5721	3330
45	0.592	1.034	1.656	0.000	1110	1.02	38387.5622	3330
45	0.600	1.017	1.645	0.000	1110	1.10	38390.6179	3330
45	0.711	0.990	1.606	0.000	1110	1.03	38391.5595	3330
45	0.541	1.130	1.750	0.000	1110	1.08	38395.5958	1110
45	0.621	1.009	1.668	0.000	1110	1.07	38404.5682	3330
45	0.731	1.064	0.000	0.147	1101	1.40	38569.9281	1101
45	0.693	1.141	0.000	0.136	1101	1.30	38570.9418	1101
45	0.676	1.290	0.000	0.249	1101	1.05	38637.9159	1101
45	0.651	1.076	0.000	0.190	1101	1.04	38638.8378	1101
45	0.622	1.135	0.000	0.176	1101	1.05	38638.9131	1101
45	0.626	1.064	0.000	0.176	1101	1.03	38639.8611	1101
45	0.647	1.069	0.000	0.185	1101	1.03	38640.8427	1101
45	0.646	1.184	0.000	0.272	1101	1.06	38640.9137	1101
45	0.664	1.049	0.000	0.190	1101	1.05	38646.8925	1101
45	0.692	1.027	0.000	0.203	1101	1.04	38666.8292	1101
45	0.632	1.097	0.000	0.198	1101	1.06	38667.8413	1101
45	0.654	1.055	0.000	0.174	1101	1.23	38667.8971	1101
45	0.632	1.008	0.000	0.213	1101	1.31	38668.6713	1101
45	0.660	1.055	0.000	0.239	1101	1.03	38668.7755	1101
45	0.639	1.084	0.000	0.251	1101	1.03	38669.7780	1101
45	0.594	1.103	0.000	0.208	1101	1.36	38670.6589	1101
45	0.640	1.102	0.000	0.240	1101	1.04	38670.8161	1101
45	0.626	1.052	0.000	0.212	1101	1.03	38671.8037	1101
45	0.661	1.064	0.000	0.159	1101	1.11	38675.8428	3303
45	0.697	0.981	1.618	0.000	1110	1.50	38680.5818	4440
45	0.595	1.027	1.768	0.000	1110	1.00	38680.7297	4440
45	0.641	1.026	1.679	0.000	1110	1.03	38681.7604	2220
45	0.663	1.010	1.702	0.000	1110	1.33	38687.5835	4440
45	0.673	1.021	1.648	0.000	1110	1.15	38693.7745	4440
45	0.644	1.034	1.694	0.000	1110	1.84	38693.8575	4440
45	0.650	0.964	1.621	0.000	1110	1.34	38694.5628	4440
45	0.731	0.984	1.661	0.000	1110	1.93	38694.8599	4440
45	0.652	1.051	1.680	0.000	1110	1.17	38697.5849	4440
45	0.648	0.987	1.687	0.000	1110	1.01	38697.7007	4440
45	0.650	0.953	1.650	0.000	1110	1.47	38697.8174	4440
45	0.579	1.099	0.000	0.131	1101	1.07	38725.5853	1101
45	0.630	1.056	0.000	0.265	1101	1.03	38738.5851	1101
45	0.612	1.058	0.000	0.108	1101	1.09	38740.6582	1101
45	0.646	1.100	0.000	0.051	1101	1.11	38741.6620	1101
45	0.718	1.029	0.000	0.218	1101	1.02	38742.5960	1101
45	0.637	1.063	0.000	0.239	1101	1.03	38743.5726	1101
45	0.651	1.056	0.000	0.210	1101	1.02	38744.5840	1101
45	0.599	1.090	0.000	0.216	1101	1.03	38747.5832	1101
45	0.669	1.021	0.000	0.171	1101	1.07	38750.6217	1101
45	0.595	1.049	0.000	0.192	1101	1.02	38751.5628	1101
45	0.672	1.039	0.000	0.226	1101	1.03	38752.5834	1101
45	0.672	1.043	0.000	0.280	1101	1.12	38773.5773	1101
45	0.675	1.007	0.000	0.223	1101	1.07	39009.9115	1101
45	0.680	1.042	0.000	0.232	1101	1.02	39033.7980	1101
45	0.661	1.134	0.000	0.183	1101	1.03	39035.7749	1101
45	0.586	1.042	0.000	0.111	1101	1.06	39036.7397	1101
45	0.622	1.079	0.000	0.193	1101	1.04	39037.8093	1101
45	0.627	1.032	0.000	0.145	1101	1.03	39038.7927	1101
45	0.624	1.087	0.000	0.156	1101	1.05	39040.7339	1101
45	0.632	1.057	0.000	0.187	1101	1.04	39041.7392	1101
45	0.622	1.069	0.000	0.271	1101	1.03	39045.7845	3303
45	0.641	0.909	0.000	0.288	1101	1.06	39051.6994	1101
45	0.699	1.057	0.000	0.118	1101	1.39	39052.6088	1101
45	0.627	1.009	0.000	0.110	1101	1.17	39052.6508	1101
45	0.593	0.959	0.000	0.125	1101	1.04	39052.7663	1101
45	0.594	1.108	0.000	0.153	1101	1.05	39053.7011	1101
45	0.605	1.018	0.000	0.183	1101	1.14	39054.6529	1101
45	0.577	1.054	0.000	0.164	1101	1.04	39054.7034	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
45	0.636	1.027	0.000	0.160	1101	1.16	39055.6439	1101
45	0.580	1.072	0.000	0.159	1101	1.03	39055.7076	1101
45	0.669	1.044	0.000	0.116	1101	1.03	39056.7121	1101
45	0.613	1.069	0.000	0.196	1101	1.03	39057.7140	3303
45	0.662	1.036	0.000	0.153	1101	1.03	39058.7082	3303
45	0.636	1.016	0.000	0.174	1101	1.04	39061.7497	3303
45	0.597	1.088	0.000	0.125	1101	1.08	39063.7686	3303
45	0.592	1.090	0.000	0.211	1101	1.05	39064.6684	3303
45	0.691	1.006	0.000	0.137	1101	1.23	39066.5973	1101
45	0.710	0.959	0.000	0.141	1101	1.10	39066.6346	1101
45	0.673	0.943	0.000	0.074	1101	1.11	39068.7651	1101
45	0.625	1.072	0.000	0.130	1101	1.19	39069.5988	1101
45	0.627	1.067	0.000	0.172	1101	1.06	39069.6457	1101
45	0.581	1.067	0.000	0.186	1101	1.03	39072.7094	3303
45	0.625	1.043	0.000	0.155	1101	1.09	39076.7373	1101
45	0.582	1.038	0.000	0.158	1101	1.12	39099.6852	1101
45	0.643	1.042	0.000	0.204	1101	1.07	39133.5720	1101
74	0.948	0.714	1.136	0.000	1110	1.44	38303.8527	1110
74	0.924	0.678	1.113	0.000	1110	1.34	38317.7673	1110
74	0.942	0.708	1.104	0.000	1110	1.34	38323.7514	1110
74	0.977	0.753	0.000	0.090	1101	1.45	38742.6540	1101
90	-0.445	1.609	0.000	0.843	1101	1.05	39054.6865	1101
90	-0.362	1.512	0.000	0.871	1101	1.09	39055.6597	1101
90	-0.067	1.420	0.000	0.936	1101	1.10	39066.6279	1101
90	-0.388	1.564	0.000	0.827	1101	1.05	39068.7593	1101
90	-0.418	1.602	0.000	0.813	1101	1.13	39069.6089	1101
90	-0.473	1.471	2.983	0.000	1110	1.70	38680.5682	4440
90	-0.453	2.457	3.232	0.000	1110	1.09	38681.7731	2220
90	-0.544	1.498	3.071	0.000	1110	1.07	38694.6694	4440
90	-0.467	1.497	3.134	0.000	1110	1.08	38697.6535	4440
91	5.886	-0.071	0.000	0.053	1101	1.08	38744.6260	1101
113	5.742	0.240	0.000	0.000	1100	1.13	38305.7810	1110
113	5.777	0.060	0.000	0.000	1100	1.16	38307.8426	1110
130	3.986	0.012	-0.129	0.000	1110	1.63	37713.5819	1110
130	3.913	0.056	0.033	0.000	1110	1.37	37829.9537	3330
130	3.873	0.076	0.000	0.046	1101	1.16	38671.7839	1101
130	3.927	0.133	0.000	-0.027	1101	1.47	38692.9004	1101
153	4.462	-0.201	0.000	-0.110	1101	1.08	38742.6303	1101
153	4.334	-0.118	0.000	-0.002	1101	1.08	38747.6058	1101
163	2.193	0.694	0.993	0.000	1110	1.09	38303.8825	1110
163	2.187	0.625	0.978	0.000	1110	1.00	38317.7722	1110
163	2.262	0.583	0.928	0.000	1110	1.00	38323.7555	1110
165	0.506	0.777	1.225	0.000	1110	1.13	38303.8983	1110
165	0.479	0.760	1.211	0.000	1110	1.00	38317.7771	1110
165	0.499	0.745	1.191	0.000	1110	1.00	38323.7609	1110
165	0.453	0.735	0.000	0.183	1101	1.03	38750.6309	1101
166	3.976	0.488	0.748	0.000	1110	1.06	38302.8595	1110
168	-0.286	0.686	1.030	0.000	1110	1.10	38315.8011	1110
168	-0.208	0.658	1.047	0.000	1110	1.11	38338.6796	3330
168	-0.257	0.668	0.000	0.215	1101	1.15	38750.6527	1101
179	5.109	-0.090	0.000	-0.162	1101	1.06	38738.6461	1101
179	5.202	-0.172	0.000	0.310	1101	1.07	38743.6408	1101
179	5.069	-0.069	0.000	0.097	1101	1.06	38751.6010	1101
188	-0.209	0.624	0.897	0.000	1110	1.63	38323.7201	1110
188	-0.296	0.675	0.989	0.000	1110	1.64	38339.6728	4440
188	-0.240	0.627	0.991	0.000	1110	1.76	38356.5997	1110
193	4.636	-0.048	0.000	-0.009	1101	1.06	38747.6332	1101
215	1.478	0.656	1.089	0.000	1110	1.03	38315.8116	1110
215	1.561	0.675	1.091	0.000	1110	1.03	38339.6784	4440
215	1.534	0.676	1.108	0.000	1110	1.01	38361.6560	1110
219	1.974	0.364	0.563	0.000	1110	1.12	38315.8197	1110
219	1.969	0.417	0.673	0.000	1110	1.11	38339.6893	4440
219	1.967	0.387	0.612	0.000	1110	1.11	38361.6668	1110
224	0.880	0.942	1.476	0.000	1110	1.11	38338.7063	3330
224	0.834	0.945	1.542	0.000	1110	1.17	38356.6136	1110
224	0.795	0.963	1.511	0.000	1110	1.12	38380.6277	3330
264	2.170	0.311	0.187	0.000	1110	1.14	38316.8115	1110
264	2.274	0.289	0.153	0.000	1110	1.13	38338.7181	3330
264	2.160	0.244	0.147	0.000	1110	1.14	38380.6374	3330
264	1.992	0.332	0.000	0.154	1101	1.13	38742.6041	1101
264	2.201	0.229	0.000	0.306	1101	1.14	38752.6181	1101
294	1.975	0.613	0.983	0.000	1110	1.15	38315.8391	1110
294	2.018	0.601	0.948	0.000	1110	1.11	38361.6851	1110
334	0.849	0.754	1.239	0.000	1110	1.37	38260.9357	3330
334	0.816	0.734	1.106	0.000	1110	1.47	38315.8537	1110

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
337	-1.852	0.993	1.625	0.000	1110	1.00	38295.8568	1110
337	-1.823	1.037	1.619	0.000	1110	1.00	38300.8472	3330
360	2.342	0.646	0.991	0.000	1110	1.08	38315.8656	1110
360	2.397	0.626	1.036	0.000	1110	1.01	38340.7404	3330
360	2.399	0.616	0.998	0.000	1110	1.02	38361.6954	1110
382	3.066	0.380	0.000	0.180	1101	1.13	39035.8796	1101
382	3.098	0.367	0.000	0.162	1101	1.12	39036.8606	1101
382	3.136	0.348	0.000	0.242	1101	1.11	39037.8220	1101
390	3.665	-0.205	0.000	0.045	0101	1.13	39133.5836	1101
390	3.607	-0.190	0.000	-0.014	0101	1.13	39135.5790	1101
402	1.127	0.702	1.071	0.000	1110	1.33	38316.8181	1110
402	1.184	0.637	0.983	0.000	1110	1.32	38328.7734	1110
402	1.231	0.646	1.018	0.000	1110	1.35	38361.7114	1110
403	2.269	0.117	0.183	0.000	1110	1.13	38260.9471	3330
403	2.326	0.120	0.139	0.000	1110	1.13	38300.8521	3330
403	2.378	0.047	0.098	0.000	1110	1.13	38317.7918	1110
423	-0.213	1.746	2.521	0.000	1110	1.61	38680.7679	2220
423	-0.143	1.594	2.744	0.000	1110	1.61	38681.7661	2220
423	-0.240	1.593	2.498	0.000	1110	1.61	38697.7286	4440
434	1.481	0.935	1.425	0.000	1110	1.13	38343.7110	3330
434	1.544	0.882	1.335	0.000	1110	1.12	38397.6007	3330
437	1.441	0.588	0.965	0.000	1110	1.05	38316.8233	1110
437	1.429	0.659	0.966	0.000	1110	1.07	38365.7103	3330
437	1.442	0.586	0.941	0.000	1110	1.05	38378.6277	3330
437	1.408	0.590	0.955	0.000	1110	1.05	38380.6478	3330
458	2.858	0.286	0.512	0.000	1110	1.02	38316.8278	1110
458	2.900	0.341	0.448	0.000	1110	1.03	38365.7161	3330
458	2.785	0.354	0.499	0.000	1110	1.06	38368.7274	3330
458	2.905	0.249	0.476	0.000	1110	1.01	38378.6326	3330
458	2.824	0.318	0.501	0.000	1110	1.02	38380.6636	3330
458	2.785	0.382	0.527	0.000	1110	1.11	38392.6878	3330
458	2.911	0.327	0.000	0.128	1101	1.04	38637.8863	1101
458	2.845	0.307	0.000	-0.008	1101	1.34	38665.9995	1101
464	0.734	0.779	1.283	0.000	1110	1.05	38316.8326	1110
464	0.840	0.727	1.179	0.000	1110	1.04	38329.7676	1110
464	0.797	0.721	1.140	0.000	1110	1.09	38368.7342	3330
464	0.828	0.712	1.169	0.000	1110	1.04	38378.6378	3330
483	3.546	0.391	0.553	0.000	1110	1.04	38295.8337	1110
483	3.473	0.361	0.624	0.000	1110	1.02	38296.8599	1110
483	3.593	0.214	0.456	0.000	1110	1.05	38298.8107	1110
483	3.625	0.278	0.534	0.000	1110	1.02	38395.6044	1110
483	3.618	0.222	0.541	0.000	1110	1.03	38396.6268	1110
483	3.663	0.291	0.000	0.231	1101	1.03	38637.8973	1101
483	3.400	0.431	0.000	0.039	1101	1.58	38665.8356	1101
489	1.214	0.873	1.418	0.000	1110	1.15	38316.8483	1110
489	1.203	0.950	1.425	0.000	1110	1.12	38329.7743	1110
489	1.316	0.847	1.351	0.000	1110	1.14	38369.7001	1110
496	3.416	0.415	0.314	0.000	1110	1.34	37711.5929	1110
496	3.331	0.492	0.430	0.000	1110	1.48	37712.6162	1110
496	3.385	0.447	0.455	0.000	1110	1.49	37831.9590	1110
496	3.307	0.528	0.000	0.531	1101	1.08	38671.7960	1101
496	3.412	0.499	0.000	0.501	1101	1.16	38692.8780	1101
496	3.300	0.477	0.000	0.519	1101	1.05	38694.7777	3303
509	1.768	0.423	0.667	0.000	1110	1.54	38295.8474	1110
509	1.643	0.489	0.792	0.000	1110	1.51	38296.8701	1110
509	1.628	0.532	0.808	0.000	1110	1.51	38317.8029	1110
510	2.122	0.597	0.917	0.000	1110	1.09	38260.9575	3330
510	2.142	0.548	0.927	0.000	1110	1.09	38296.8777	1110
510	2.165	0.515	0.882	0.000	1110	1.09	38317.8103	1110
519	1.025	0.972	1.644	0.000	1110	2.92	38680.8016	2220
519	1.033	1.003	1.943	0.000	1110	2.91	38681.7804	2220
519	0.916	1.008	1.803	0.000	1110	2.90	38697.7384	4440
539	1.185	0.746	1.225	0.000	1110	1.37	38260.9652	3330
539	1.236	0.691	0.000	0.000	1100	1.37	38317.8156	1110
539	1.294	0.654	1.048	0.000	1110	1.38	38338.7427	3330
539	1.213	0.670	1.045	0.000	1110	1.43	38370.6294	3330
542	3.865	-0.152	-0.300	0.000	1110	1.17	38300.8682	3330
542	3.749	-0.084	-0.196	0.000	1110	1.17	38317.8214	1110
542	3.835	-0.159	-0.328	0.000	1110	1.18	38370.6425	3330
542	3.759	-0.102	-0.274	0.000	1110	1.18	38380.6831	3330
542	3.679	-0.086	0.000	0.001	1101	1.17	38751.6266	1101
542	3.814	-0.131	0.000	0.035	1101	1.17	38752.6302	1101
544	2.248	0.227	0.468	0.000	1110	1.00	38300.8749	3330
544	2.289	0.310	0.405	0.000	1110	1.01	38369.7084	1110
544	2.205	0.345	0.510	0.000	1110	1.00	38378.6447	3330
544	2.221	0.287	0.431	0.000	1110	1.04	38380.6970	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
553	2.349	0.122	0.146	0.000	1110	1.02	38296.8854	1110
553	2.380	0.047	0.091	0.000	1110	1.02	38317.8269	1110
553	2.369	0.137	0.126	0.000	1110	1.02	38329.7818	1110
585	0.107	1.014	1.554	0.000	1110	1.69	38323.8083	1110
585	0.053	1.074	1.633	0.000	1110	1.69	38329.7885	1110
585	0.114	0.961	1.593	0.000	1110	1.70	38338.7490	3330
589	4.643	0.140	0.301	0.000	1110	1.18	38396.6369	1110
602	1.524	0.993	1.497	0.000	1110	2.28	38769.5708	3340
603	-0.838	0.845	1.345	0.000	1110	1.02	38296.8956	1110
603	-0.789	0.820	1.304	0.000	1110	1.01	38323.8130	1110
603	-0.813	0.831	1.324	0.000	1110	1.02	38338.7601	3330
612	5.028	-0.026	-0.243	0.000	1110	1.52	38769.5785	3340
617	-0.584	0.732	1.168	0.000	1110	1.02	38291.8876	1110
617	-0.636	0.728	1.112	0.000	1110	1.03	38291.9292	1110
617	-0.613	0.768	1.156	0.000	1110	1.81	38295.7124	1110
617	-0.577	0.655	1.101	0.000	1110	1.12	38295.8115	1110
617	-0.635	0.861	1.186	0.000	1110	1.90	38296.7043	1110
617	-0.653	0.721	1.180	0.000	1110	1.04	38296.8493	1110
617	-0.721	0.783	1.229	0.000	1110	1.15	38298.7930	1110
617	-0.567	0.698	1.090	0.000	1110	1.01	38298.8852	1110
617	-0.654	0.728	1.139	0.000	1110	1.12	38300.7987	3330
617	-0.636	0.733	1.187	0.000	1110	1.05	38301.8267	1110
617	-0.569	0.705	1.155	0.000	1110	1.20	38302.7689	1110
617	-0.672	0.744	1.169	0.000	1110	1.05	38303.9159	1110
617	-0.679	0.696	1.129	0.000	1110	1.03	38305.8336	1110
617	-0.622	0.739	1.187	0.000	1110	1.01	38307.8611	1110
617	-0.600	0.743	1.185	0.000	1110	1.10	38309.7801	1110
617	-0.610	0.736	1.150	0.000	1110	1.01	38309.8422	1110
617	-0.590	0.739	1.193	0.000	1110	1.01	38310.8527	1110
617	-0.607	0.734	1.150	0.000	1110	1.12	38311.7662	1110
617	-0.641	0.728	1.117	0.000	1110	1.05	38315.7880	1110
617	-0.678	0.745	1.186	0.000	1110	1.01	38316.8389	1110
617	-0.644	0.723	1.157	0.000	1110	1.06	38316.8890	1110
617	-0.649	0.737	1.172	0.000	1110	1.21	38317.7266	1110
617	-0.608	0.699	1.160	0.000	1110	1.04	38317.7866	1110
617	-0.633	0.739	1.151	0.000	1110	1.01	38317.8402	1110
617	-0.660	0.704	1.105	0.000	1110	1.13	38323.7296	1110
617	-0.620	0.732	1.176	0.000	1110	1.05	38323.7672	1110
617	-0.669	0.807	1.234	0.000	1110	1.02	38323.8343	1110
617	-0.702	0.756	1.180	0.000	1110	1.06	38324.7577	1110
617	-0.655	0.729	1.130	0.000	1110	1.06	38324.8619	1110
617	-0.614	0.726	1.127	0.000	1110	1.04	38325.8508	1110
617	-0.650	0.744	1.150	0.000	1110	1.05	38326.7578	1110
617	-0.617	0.731	1.148	0.000	1110	1.01	38326.7963	1110
617	-0.633	0.719	1.123	0.000	1110	1.02	38327.7766	1110
617	-0.642	0.734	1.152	0.000	1110	1.04	38327.8458	1110
617	-0.669	0.703	1.144	0.000	1110	1.03	38328.7678	1110
617	-0.664	0.737	1.157	0.000	1110	1.03	38329.7625	1110
617	-0.630	0.739	1.169	0.000	1110	1.02	38338.7544	3330
617	-0.586	0.703	1.109	0.000	1110	2.03	38339.5793	4440
617	-0.610	0.720	1.172	0.000	1110	1.18	38339.8679	4440
617	-0.655	0.747	1.142	0.000	1110	1.97	38340.5795	3330
617	-0.704	0.819	1.207	0.000	1110	2.03	38343.5682	3330
617	-0.663	0.714	1.174	0.000	1110	1.01	38343.7706	3330
617	-0.662	0.786	1.189	0.000	1110	1.13	38345.8200	1110
617	-0.623	0.722	1.175	0.000	1110	1.03	38357.6899	1110
617	-0.599	0.747	1.189	0.000	1110	1.01	38361.7207	1110
617	-0.620	0.675	1.148	0.000	1110	1.03	38365.6655	3330
617	-0.627	0.749	1.184	0.000	1110	1.19	38367.5937	1110
617	-0.599	0.723	1.132	0.000	1110	1.07	38367.7512	1110
617	-0.652	0.735	1.146	0.000	1110	1.05	38368.7410	3330
617	-0.604	0.715	1.105	0.000	1110	1.02	38369.6643	1110
617	-0.616	0.718	1.120	0.000	1110	1.03	38370.7174	3330
617	-0.662	0.688	1.146	0.000	1110	1.01	38379.6641	3330
617	-0.730	0.749	1.204	0.000	1110	1.04	38380.6155	3330
617	-0.635	0.730	1.120	0.000	1110	1.02	38381.6448	3330
617	-0.685	0.743	1.185	0.000	1110	1.08	38383.5876	3330
617	-0.623	0.723	1.117	0.000	1110	1.01	38383.6538	3330
617	-0.630	0.717	1.125	0.000	1110	1.04	38386.6033	3330
617	-0.626	0.750	1.123	0.000	1110	1.03	38392.6557	3330
617	-0.655	0.753	1.147	0.000	1110	1.01	38397.6094	3330
617	-0.660	0.729	1.151	0.000	1110	1.02	38398.5865	3330
617	-0.608	0.754	1.154	0.000	1110	1.01	38399.6112	3330
617	-0.635	0.725	1.145	0.000	1110	1.02	38400.5845	3330
617	-0.619	0.703	1.105	0.000	1110	1.02	38403.6210	3330
617	-0.667	0.732	1.152	0.000	1110	1.02	38406.5700	3330
617	-0.684	0.714	1.152	0.000	1110	1.01	38410.5872	3330
617	-0.651	0.691	1.147	0.000	1110	1.01	38411.5667	3330
617	-0.689	0.711	1.147	0.000	1110	1.02	38419.5674	3330
617	-0.667	0.698	1.165	0.000	1110	1.02	38420.5646	3330
617	-0.589	0.713	1.155	0.000	1110	1.03	38421.5785	1110
617	-0.594	0.751	1.108	0.000	1110	2.42	38569.9311	3330
617	-0.643	0.810	0.000	0.105	1101	1.03	38637.9222	1101
617	-0.692	0.797	0.000	0.109	1101	1.02	38640.9196	1101
617	-0.594	0.716	0.000	0.137	1101	1.03	38646.8986	1101
617	-0.508	0.755	0.000	0.199	1101	1.15	38665.9647	1101
617	-0.600	0.742	0.000	0.105	1101	1.24	38666.7637	1101
617	-0.579	0.738	0.000	0.159	1101	1.04	38666.9154	1101
617	-0.603	0.738	0.000	0.149	1101	1.02	38667.8870	1101
617	-0.639	0.741	0.000	0.063	1101	1.75	38668.6956	1101

TABLE 7 THE IJK AND JKL OBSERVATIONS

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
			PBS INFRARED IJKL					
617	-0.656	0.808	0.000	0.088	1101	1.05	38668.9158	1101
617	-0.503	0.671	0.000	0.123	1101	1.30	38668.9918	1101
617	-0.642	0.809	0.000	0.069	1101	1.05	38669.9128	1101
617	-0.669	0.774	0.000	0.214	1101	1.02	38673.8429	1101
617	-0.670	0.788	0.000	0.114	1101	1.02	38674.8296	1101
617	-0.610	0.730	1.130	0.000	1110	1.04	38678.7635	4440
617	-0.625	0.715	1.149	0.000	1110	2.22	38680.6125	4440
617	-0.614	0.726	1.122	0.000	1110	1.00	38680.8095	2220
617	-0.565	0.701	1.094	0.000	1110	1.42	38680.9361	2220
617	-0.595	0.736	1.150	0.000	1110	1.04	38681.7564	2220
617	-0.618	0.731	1.116	0.000	1110	2.34	38687.5887	4440
617	-0.608	0.738	1.088	0.000	1110	1.01	38693.7792	4440
617	-0.665	0.718	1.130	0.000	1110	1.19	38693.8632	4440
617	-0.598	0.722	1.185	0.000	1110	2.33	38694.5700	4440
617	-0.608	0.721	1.140	0.000	1110	1.21	38694.6622	4440
617	-0.655	0.766	1.189	0.000	1110	1.21	38694.8653	4440
617	-0.635	0.723	1.149	0.000	1110	1.75	38697.5906	4440
617	-0.567	0.623	1.077	0.000	1110	1.25	38697.6469	4440
617	-0.612	0.686	1.162	0.000	1110	1.03	38697.7148	4440
617	-0.622	0.765	1.198	0.000	1110	1.25	38697.8649	4440
617	-0.610	0.730	0.000	0.118	1101	1.07	38727.7675	1101
617	-0.583	0.761	0.000	0.080	1101	1.02	38738.6994	1101
617	-0.555	0.719	0.000	0.047	1101	1.02	38743.6820	1101
617	-0.596	0.762	1.158	0.000	1110	1.01	38769.5458	3340
617	-0.651	0.788	0.000	0.063	1101	1.02	38769.6056	1101
617	-0.631	0.781	1.154	0.000	1110	1.16	38769.6479	3340
617	-0.626	0.741	1.148	0.000	1110	2.45	38769.7569	3340
617	-0.619	0.718	0.000	0.070	1101	1.01	38771.5883	1101
617	-0.641	0.769	0.000	0.084	1101	1.02	38773.5957	1101
617	-0.668	0.775	0.000	0.124	1101	1.03	38778.5983	1101
617	-0.620	0.714	0.000	0.148	1101	1.01	38784.5578	1101
617	-0.533	0.751	1.153	0.000	1110	1.15	38800.5604	3340
617	-0.635	0.740	1.108	0.000	1110	2.37	38800.6694	3340
617	-0.603	0.744	1.157	0.000	1110	1.16	38801.5625	1120
617	-0.599	0.730	1.161	0.000	1110	1.91	38801.6465	1120
617	-0.661	0.775	1.157	0.000	1110	1.08	38802.5333	3340
617	-0.647	0.694	1.114	0.000	1110	2.43	38802.6660	3340
617	-0.634	0.744	1.160	0.000	1110	1.11	38809.5247	2220
617	-0.566	0.696	1.113	0.000	1110	1.66	38809.6076	2220
617	-0.603	0.740	1.158	0.000	1110	3.05	38847.5591	4440
617	-0.660	0.721	0.000	0.098	1101	1.03	39008.9675	3303
617	-0.654	0.751	0.000	0.053	1101	1.03	39009.9040	1101
617	-0.621	0.702	0.000	0.080	1101	1.02	39009.9509	1101
617	-0.593	0.750	0.000	0.044	1101	1.01	39036.8530	1101
617	-0.664	0.781	0.000	0.054	1101	1.03	39037.8874	1101
617	-0.658	0.749	0.000	0.110	1101	1.01	39041.8441	1101
617	-0.618	0.642	0.000	0.080	1101	1.10	39050.7518	1101
617	-0.632	0.730	0.000	0.091	1101	1.02	39050.8050	1101
617	-0.744	0.818	0.000	0.026	1101	1.02	39050.8449	1101
617	-0.686	0.796	0.000	0.160	1101	1.01	39051.8170	1101
617	-0.606	0.772	0.000	0.086	1101	1.56	39052.6609	1101
617	-0.695	0.797	0.000	0.030	1101	1.05	39052.7720	1101
617	-0.684	0.674	0.000	0.171	1101	1.01	39052.8229	1101
617	-0.559	0.666	0.000	0.148	1101	1.22	39053.7083	1101
617	-0.691	0.844	0.000	0.096	1101	1.01	39053.8038	1101
617	-0.687	0.776	0.000	0.102	1101	1.19	39054.7125	1101
617	-0.644	0.735	0.000	0.113	1101	1.02	39054.7992	1101
617	-0.646	0.747	0.000	0.075	1101	1.16	39055.7170	1101
617	-0.623	0.739	0.000	0.047	1101	1.02	39055.7964	1101
617	-0.685	0.748	0.000	0.112	1101	1.02	39059.8115	1101
617	-0.668	0.770	0.000	0.119	1101	1.03	39060.7636	1101
617	-0.631	0.708	0.000	0.100	1101	1.01	39060.7878	1101
617	-0.630	0.747	0.000	0.087	1101	1.03	39061.7583	3303
617	-0.661	0.746	0.000	0.099	1101	1.02	39062.7740	3303
617	-0.589	0.742	0.000	0.103	1101	1.02	39063.7737	3303
617	-0.609	0.726	0.000	0.155	1101	1.04	39063.8286	3303
617	-0.605	0.706	0.000	0.188	1101	1.24	39064.6740	3303
617	-0.672	0.804	0.000	0.012	1101	1.40	39066.6412	1101
617	-0.609	0.685	0.000	0.192	1101	1.02	39066.7637	1101
617	-0.676	0.744	0.000	0.012	1101	1.04	39068.7358	1101
617	-0.602	0.719	0.000	0.147	1101	1.01	39068.7771	1101
617	-0.548	0.745	0.000	0.099	1101	1.57	39069.6140	1101
617	-0.646	0.759	0.000	0.093	1101	1.04	39069.7332	1101
617	-0.619	0.744	0.000	0.176	1101	1.01	39069.7757	1101
617	-0.679	0.762	0.000	0.069	1101	1.05	39072.7142	3303
617	-0.667	0.871	0.000	0.012	1101	1.01	39072.7595	3303
617	-0.644	0.758	0.000	0.160	1101	1.01	39076.7616	1101
617	-0.660	0.738	0.000	0.121	1101	1.02	39099.6706	1101
617	-0.653	0.755	0.000	0.072	1101	1.15	39099.7766	1101
617	-0.715	0.802	0.000	0.009	1101	1.08	39130.6699	1101
617	-0.782	0.708	0.000	0.100	1101	1.03	39132.5674	3303
617	-0.594	0.727	0.000	0.156	1101	1.01	39133.5979	1101
617	-0.606	0.765	0.000	0.106	1101	1.03	39135.5541	1101
617	-0.686	0.795	0.000	0.078	1101	1.02	39138.5606	1101
617	-0.704	0.767	0.000	0.098	1101	1.03	39138.6122	1101
617	-0.763	0.786	0.000	0.114	1101	1.02	39139.5549	1101
618	3.771	0.504	0.000	0.000	1100	1.14	38386.6951	3330
618	3.955	0.335	0.000	0.000	1100	1.31	38391.7560	3330
618	3.898	0.307	0.000	0.000	1100	1.34	38391.7646	3330
618	3.948	0.361	0.645	0.000	1110	1.11	38395.6116	1110
618	3.910	0.380	0.000	0.000	1100	1.12	38411.6059	3330
622	2.677	0.136	0.196	0.000	1110	1.00	38260.9807	3330
622	2.634	0.121	0.179	0.000	1110	1.01	38316.8555	1110

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
			PBS INFRARED IJKL					
622	2.682	0.120	0.172	0.000	1110	1.00	38323.8175	1110
622	2.670	0.093	0.128	0.000	1110	1.01	38328.7802	1110
648	1.873	0.985	1.569	0.000	1110	1.10	38343.8166	3330
648	1.922	0.873	1.458	0.000	1110	1.05	38397.6049	3330
649	2.281	0.538	0.895	0.000	1110	1.10	38316.8600	1110
649	2.335	0.573	0.858	0.000	1110	1.09	38323.8218	1110
681	-2.266	1.321	3.096	0.000	1110	1.23	38298.9029	1110
681	-2.307	1.332	3.228	0.000	1110	1.33	38301.8224	1110
681	-2.155	1.308	3.211	0.000	1110	1.23	38323.8274	1110
681	-2.092	1.373	3.001	0.000	1110	1.25	38367.6716	1110
681	-2.126	1.307	2.856	0.000	1110	1.25	38379.6431	3330
681	-2.356	1.333	0.000	0.615	1101	1.27	38638.9201	1101
681	-2.153	1.275	0.000	0.523	1101	1.24	38666.8589	1101
681	-2.193	1.354	0.000	0.688	1101	1.41	38669.7955	1101
681	-2.037	1.389	0.000	0.814	1101	1.24	39062.7820	3303
681	-2.095	1.338	0.000	0.798	1101	1.29	39066.7416	1101
681	-2.030	1.390	0.000	0.726	1101	1.23	39068.7713	1101
681	-1.919	1.321	0.000	0.764	1101	1.30	39069.7276	1101
681	-2.325	1.096	0.000	0.774	1101	1.24	39099.6779	1101
681	-3.074	1.219	0.000	0.634	1101	1.24	39132.5878	3303
696	5.580	0.119	0.000	0.000	1100	1.11	38390.6779	3330
696	5.555	0.052	0.000	0.000	1100	1.10	38420.5880	3330
696	5.481	0.287	0.000	0.000	1100	1.11	38421.5929	1110
696	5.460	0.149	0.000	0.054	1101	1.31	38670.0099	1101
696	5.534	0.135	0.000	0.181	1101	1.10	38670.8854	1101
696	5.356	0.212	0.000	0.144	1101	1.12	39034.8311	1101
696	5.360	0.204	0.000	-0.073	1101	1.10	39035.8565	1101
696	5.493	0.125	0.000	0.174	1101	1.10	39037.8654	1101
718	4.423	-0.022	0.000	0.181	1101	1.10	38769.6178	1101
721	4.638	-0.105	-0.349	0.000	1110	2.55	38769.5868	3340
804	0.000	0.112	0.104	0.000	0110	1.18	38303.9321	1110
804	3.221	0.057	0.072	0.000	1110	1.15	38316.8653	1110
804	3.257	0.050	0.054	0.000	1110	1.15	38323.8523	1110
804	3.209	0.091	0.075	0.000	1110	1.18	38328.7861	1110
824	2.039	0.675	1.106	0.000	1110	1.01	38323.8585	1110
824	2.023	0.673	1.086	0.000	1110	1.02	38328.7916	1110
824	1.996	0.681	1.117	0.000	1110	1.02	38338.7661	3330
834	0.161	0.895	1.557	0.000	1110	1.19	38303.9920	1110
834	0.033	0.983	1.608	0.000	1110	1.09	38316.8708	1110
834	0.088	0.962	1.599	0.000	1110	1.09	38323.8629	1110
834	0.102	0.975	0.000	0.189	1101	1.11	39045.8263	3303
843	0.769	0.972	1.558	0.000	1110	1.01	38316.8832	1110
843	0.790	1.001	1.589	0.000	1110	1.01	38323.8674	1110
854	1.997	0.543	0.860	0.000	1110	1.07	38316.8759	1110
854	2.023	0.556	0.877	0.000	1110	1.07	38323.8726	1110
874	1.433	0.636	1.017	0.000	1110	1.36	38317.8339	1110
874	1.438	0.659	1.070	0.000	1110	1.37	38338.7719	3330
874	1.372	0.682	1.081	0.000	1110	1.46	38370.6560	3330
874	1.340	0.713	1.108	0.000	1110	1.42	38377.6464	3330
897	2.723	0.030	-0.032	0.000	1110	1.96	38769.5965	3340
897	2.706	0.135	-0.010	0.000	1110	2.09	38802.5507	3340
911	-1.650	1.068	1.684	0.000	1110	1.23	38295.8641	1110
911	-1.697	1.090	1.723	0.000	1110	1.15	38317.8462	1110
915	0.960	0.564	0.927	0.000	1110	1.07	38317.8562	1110
915	0.998	0.546	0.906	0.000	1110	1.07	38365.7227	3330
915	0.979	0.541	0.871	0.000	1110	1.11	38370.6639	3330
921	-1.965	1.196	1.975	0.000	1110	1.06	38295.8699	1110
921	-1.895	1.144	1.913	0.000	1110	1.01	38317.8635	1110
921	-1.923	1.138	1.930	0.000	1110	1.04	38370.6770	3330
921	-1.883	1.084	1.827	0.000	1110	1.01	38371.7200	1110
921	-1.960	1.136	1.895	0.000	1110	1.02	38380.7268	3330
921	-1.918	1.122	1.875	0.000	1110	1.02	38397.6196	3330
921	-1.989	1.211	0.000	0.189	1101	1.01	38640.9615	1101
921	-1.931	1.146	0.000	0.223	1101	1.05	38668.8543	1101
936	2.005	0.088	0.085	0.000	1110	1.02	38317.8511	1110
936	2.002	0.078	0.096	0.000	1110	1.02	38338.7937	3330
936	2.575	0.309	0.000	0.036	1101	1.02	39063.8543	3303
936	2.686	0.237	0.000	0.031	1101	1.02	39063.8587	3303
936	2.601	0.307	0.000	0.024	1101	1.03	39063.8628	3303
936	2.587	0.362	0.000	-0.031	1101	1.03	39063.8666	3303
936	2.679	0.292	0.000	0.025	1101	1.04	39063.8730	3303
936	2.659	0.326	0.000	0.061	1101	1.04	39063.8774	3303
936	2.613	0.361	0.000	-0.023	1101	1.05	39063.8830	3303
936	2.663	0.248	0.000	-0.012	1101	1.06	39063.8900	3303
936	2.534	0.304	0.000	0.072	1101	1.10	39063.9116	3303
936	2.277	0.196	0.000	0.060	1101	1.38	39063.9803	3303
937	2.733	0.340	0.583	0.000	1110	1.05	38317.8691	1110
937	2.722	0.364	0.511	0.000	1110	1.05	38365.7416	3330

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
937	2.688	0.317	0.503	0.000	1110	1.07	38370.6840	3330
937	2.687	0.341	0.522	0.000	1110	1.07	38380.7421	3330
941	1.682	0.584	0.955	0.000	1110	1.02	38317.8736	1110
941	1.634	0.603	0.918	0.000	1110	1.02	38365.7464	3330
941	1.640	0.554	0.858	0.000	1110	1.03	38370.6992	3330
951	2.121	0.592	0.986	0.000	1110	1.03	38317.8778	1110
951	2.063	0.661	0.945	0.000	1110	1.03	38365.7605	3330
951	2.074	0.595	0.946	0.000	1110	1.03	38370.7069	3330
951	2.037	0.609	0.970	0.000	1110	1.07	38380.7548	3330
963	2.568	0.355	0.459	0.000	1110	1.50	38769.6021	3340
963	2.495	0.279	0.525	0.000	1110	1.73	38800.5937	3340
977	0.024	1.371	2.459	0.000	1110	4.19	38697.8067	4440
987	5.392	-0.096	0.000	-0.076	1101	1.05	38771.6119	1101
989	5.158	-0.015	0.000	-0.236	1101	1.06	38771.6641	1101
991	1.617	0.833	0.000	0.184	1101	1.01	39035.8936	1101
991	1.567	0.905	0.000	0.179	1101	1.01	39037.8780	1101
1003	-1.171	1.142	1.795	0.000	1110	1.72	38317.8950	1110
1003	-1.162	1.074	1.775	0.000	1110	1.72	38365.7664	3330
1003	-1.182	1.103	1.797	0.000	1110	1.71	38370.7257	3330
1003	-1.154	1.063	1.743	0.000	1110	1.73	38397.6414	3330
1005	5.482	-0.097	0.000	-0.113	1101	1.07	38771.6931	1101
1017	0.511	0.290	0.466	0.000	1110	1.06	37708.5525	1110
1017	0.507	0.304	0.519	0.000	1110	1.15	37708.6162	1110
1017	0.535	0.313	0.484	0.000	1110	1.09	37711.5725	1110
1017	0.588	0.318	0.481	0.000	1110	1.09	37712.5711	1110
1017	0.563	0.303	0.455	0.000	1110	1.18	37713.6132	1110
1017	0.620	0.370	0.482	0.000	1110	1.13	37721.5719	1110
1017	0.588	0.316	0.000	0.000	1100	1.28	37721.6233	1110
1017	0.557	0.305	0.000	0.000	1100	1.67	37721.6858	1110
1017	0.601	0.335	0.000	0.000	1100	1.10	37722.5524	1100
1017	0.584	0.295	0.000	0.000	1100	1.39	37722.6441	1100
1017	0.637	0.263	0.426	0.000	1110	1.26	38295.8178	1110
1017	0.641	0.353	0.472	0.000	1110	1.45	38296.7769	1110
1017	0.591	0.256	0.432	0.000	1110	1.17	38296.8429	1110
1017	0.572	0.336	0.510	0.000	1110	1.21	38298.8241	1110
1017	0.609	0.305	0.533	0.000	1110	1.09	38298.8784	1110
1017	0.606	0.247	0.426	0.000	1110	1.27	38300.8028	3330
1017	0.625	0.271	0.492	0.000	1110	1.15	38301.8385	1110
1017	0.643	0.298	0.418	0.000	1110	1.08	38302.8688	1110
1017	0.533	0.323	0.478	0.000	1110	1.05	38305.9120	1110
1017	0.504	0.345	0.540	0.000	1110	1.10	38305.9793	1110
1017	0.635	0.296	0.439	0.000	1110	1.05	38307.8958	1110
1017	0.594	0.303	0.507	0.000	1110	1.05	38309.9235	1110
1017	0.583	0.313	0.496	0.000	1110	1.06	38310.9288	1110
1017	0.518	0.339	0.502	0.000	1110	1.05	38315.8791	1110
1017	0.599	0.306	0.476	0.000	1110	1.05	38317.8819	1110
1017	0.627	0.314	0.473	0.000	1110	1.07	38317.9235	1110
1017	0.540	0.358	0.542	0.000	1110	1.05	38323.8780	1110
1017	0.568	0.296	0.502	0.000	1110	1.05	38324.8663	1110
1017	0.556	0.327	0.475	0.000	1110	1.05	38325.8547	1110
1017	0.599	0.300	0.457	0.000	1110	1.09	38326.8016	1110
1017	0.584	0.280	0.464	0.000	1110	1.05	38327.8514	1110
1017	0.550	0.348	0.547	0.000	1110	1.05	38328.8569	1110
1017	0.568	0.291	0.467	0.000	1110	1.10	38329.9178	1110
1017	0.611	0.299	0.483	0.000	1110	1.06	38338.7982	3330
1017	0.594	0.307	0.494	0.000	1110	1.08	38345.8585	1110
1017	0.527	0.331	0.545	0.000	1110	1.05	38357.7673	1110
1017	0.623	0.244	0.461	0.000	1110	1.06	38361.7316	1110
1017	0.621	0.300	0.448	0.000	1110	1.05	38365.7557	3330
1017	0.544	0.341	0.527	0.000	1110	1.05	38367.7579	1110
1017	0.000	0.283	0.459	0.000	0110	1.05	38368.7462	3330
1017	0.551	0.350	0.474	0.000	1110	1.05	38369.7391	1110
1017	0.566	0.300	0.450	0.000	1110	1.07	38370.6924	3330
1017	0.553	0.295	0.478	0.000	1110	1.07	38370.7796	3330
1017	0.551	0.309	0.454	0.000	1110	2.06	38370.9661	3330
1017	0.574	0.252	0.453	0.000	1110	1.22	38380.5984	3330
1017	0.575	0.303	0.447	0.000	1110	1.05	38381.7200	3330
1017	0.593	0.305	0.415	0.000	1110	1.05	38383.7206	3330
1017	0.579	0.314	0.438	0.000	1110	2.06	38385.9253	1110
1017	0.561	0.360	0.517	0.000	1110	1.11	38386.6216	3330
1017	0.578	0.310	0.421	0.000	1110	1.07	38386.7372	3330
1017	0.587	0.306	0.480	0.000	1110	1.08	38387.6435	3330
1017	0.562	0.333	0.473	0.000	1110	1.09	38390.6260	3330
1017	0.532	0.337	0.501	0.000	1110	1.05	38390.7036	3330
1017	0.465	0.376	0.480	0.000	1110	2.61	38390.9413	3330
1017	0.607	0.340	0.444	0.000	1110	1.07	38391.6352	3330
1017	0.584	0.300	0.448	0.000	1110	1.05	38391.6928	3330
1017	0.547	0.330	0.484	0.000	1110	1.08	38391.7360	3330
1017	0.525	0.317	0.478	0.000	1110	1.19	38391.7858	3330
1017	0.548	0.285	0.486	0.000	1110	2.22	38391.9187	3330
1017	0.534	0.305	0.506	0.000	1110	1.05	38392.7016	3330
1017	0.553	0.288	0.467	0.000	1110	1.05	38396.6576	1110
1017	0.571	0.275	0.458	0.000	1110	1.06	38398.6351	3330
1017	0.576	0.294	0.447	0.000	1110	1.05	38403.6508	3330
1017	0.604	0.267	0.457	0.000	1110	1.11	38404.5750	3330
1017	0.597	0.292	0.418	0.000	1110	1.05	38404.6497	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1017	0.601	0.309	0.468	0.000	1110	1.05	38408.6284	3330
1017	0.549	0.317	0.469	0.000	1110	1.06	38410.6584	3330
1017	0.563	0.306	0.451	0.000	1110	2.17	38410.8639	3330
1017	0.567	0.325	0.488	0.000	1110	1.05	38411.6234	3330
1017	0.519	0.338	0.532	0.000	1110	2.13	38411.8587	3330
1017	0.571	0.288	0.508	0.000	1110	1.05	38415.6026	3330
1017	0.574	0.310	0.478	0.000	1110	1.05	38419.6056	3330
1017	0.529	0.311	0.509	0.000	1110	1.05	38420.5952	3330
1017	0.569	0.314	0.486	0.000	1110	1.05	38421.6035	1110
1017	0.548	0.303	0.468	0.000	1110	1.05	38424.5720	3330
1017	0.598	0.284	0.467	0.000	1110	1.05	38425.5792	3330
1017	0.577	0.312	0.500	0.000	1110	1.05	38430.5622	3330
1017	0.587	0.305	0.474	0.000	1110	1.05	38431.5670	3330
1017	0.569	0.313	0.484	0.000	1110	1.35	38480.5845	1110
1017	0.581	0.350	0.469	0.000	1110	1.44	38482.5951	1110
1017	0.556	0.303	0.488	0.000	1110	2.43	38569.9431	3330
1017	0.570	0.346	0.000	0.064	1101	1.18	38631.9206	1101
1017	0.557	0.321	0.000	0.075	1101	1.09	38638.9436	1101
1017	0.585	0.287	0.000	0.112	1101	1.05	38640.9950	1101
1017	0.503	0.298	0.000	0.056	1101	1.07	38665.9727	1101
1017	0.533	0.353	0.000	0.061	1101	1.30	38667.7891	1101
1017	0.581	0.307	0.000	0.076	1101	1.22	38668.8076	1101
1017	0.461	0.339	0.000	0.139	1101	1.05	38669.9186	1101
1017	0.552	0.336	0.000	0.017	1101	1.05	38670.8978	1101
1017	0.491	0.454	0.000	0.152	1101	1.05	38671.9069	1101
1017	0.570	0.320	0.460	0.000	1110	1.31	38678.7694	4440
1017	0.508	0.347	0.557	0.000	1110	1.11	38680.8474	2220
1017	0.564	0.317	0.451	0.000	1110	1.23	38681.7892	2220
1017	0.631	0.252	0.000	0.117	1101	1.28	38692.7267	1101
1017	0.559	0.325	0.000	0.137	1101	1.05	38692.8516	1101
1017	0.583	0.329	0.000	0.113	1101	1.12	38693.7788	1101
1017	0.565	0.321	0.469	0.000	1110	1.18	38693.7858	4440
1017	0.471	0.370	0.000	0.152	1101	1.06	38693.8861	1101
1017	0.547	0.308	0.429	0.000	1110	2.85	38694.5932	4440
1017	0.558	0.347	0.507	0.000	1110	1.57	38694.6767	4440
1017	0.468	0.328	0.000	0.104	1101	1.14	38694.7661	3303
1017	0.598	0.317	0.490	0.000	1110	1.21	38694.8712	4440
1017	0.503	0.285	0.479	0.000	1110	2.22	38697.6118	4440
1017	0.508	0.294	0.504	0.000	1110	1.79	38697.6431	4440
1017	0.550	0.332	0.482	0.000	1110	1.31	38697.7186	4440
1017	0.580	0.339	0.467	0.000	1110	1.23	38697.8694	4440
1017	0.578	0.344	0.000	0.071	1101	1.11	38737.8026	1101
1017	0.556	-0.520	0.450	0.000	1010	1.22	38769.5521	3340
1017	0.676	0.238	0.000	0.146	1101	1.05	38769.6285	1101
1017	0.579	0.280	0.430	0.000	1110	1.18	38769.6437	3340
1017	0.589	0.346	0.458	0.000	1110	1.57	38769.7528	3340
1017	0.576	0.287	0.446	0.000	1110	2.15	38769.8049	3340
1017	0.546	0.258	0.000	0.008	1101	1.07	38771.5954	1101
1017	0.592	0.358	0.505	0.000	1110	1.19	38800.5646	3340
1017	0.519	0.356	0.490	0.000	1110	1.63	38800.6764	3340
1017	0.536	0.303	0.457	0.000	1110	2.26	38800.7264	3340
1017	0.600	0.307	0.416	0.000	1110	1.19	38801.5674	1120
1017	0.585	0.327	0.432	0.000	1110	1.49	38801.6528	1120
1017	0.554	0.307	0.414	0.000	1110	2.17	38801.7188	1120
1017	0.550	0.305	0.461	0.000	1110	1.17	38802.5375	3340
1017	0.592	0.331	0.482	0.000	1110	1.17	38809.5170	2220
1017	0.000	0.251	0.414	0.000	0110	1.48	38809.6299	2220
1017	0.526	0.295	0.380	0.000	1110	1.69	38847.5543	4440
1017	0.507	0.282	0.000	0.157	1101	1.05	39008.9819	3303
1017	0.449	0.330	0.000	0.106	1101	1.11	39009.9184	1101
1017	0.551	0.220	0.000	0.122	1101	1.07	39009.9445	1101
1017	0.493	0.339	0.000	0.074	1101	1.06	39036.8808	1101
1017	0.643	0.281	0.000	0.084	1101	1.19	39050.7727	1101
1017	0.564	0.380	0.000	0.009	1101	1.12	39051.7991	1101
1017	0.513	0.279	0.000	0.100	1101	1.08	39052.8153	1101
1017	0.559	0.237	0.000	0.104	1101	1.11	39054.7932	1101
1017	0.641	0.255	0.000	0.128	1101	1.11	39055.7910	1101
1017	0.607	0.265	0.000	0.093	1101	1.07	39057.8097	3303
1017	0.551	0.305	0.000	0.067	1101	1.06	39059.8222	1101
1017	0.556	0.360	0.000	0.010	1101	1.11	39060.7769	1101
1017	0.614	0.299	0.000	0.069	1101	1.12	39063.9178	3303
1017	0.473	0.348	0.000	0.037	1101	1.17	39066.7338	1101
1017	0.498	0.319	0.000	0.059	1101	1.05	39068.8041	1101
1017	0.592	0.330	0.000	0.135	1101	1.06	39130.6913	1101
1017	0.609	0.352	0.000	0.058	1101	1.05	39135.6448	1101
1017	0.507	0.316	0.000	0.136	1101	1.06	39139.5992	1101
1030	1.611	0.593	0.848	0.000	1110	1.10	38317.9014	1110
1030	0.000	0.519	0.843	0.000	0110	1.10	38343.8368	3330
1030	1.562	0.540	0.870	0.000	1110	1.10	38361.7431	1110
1030	1.555	0.577	0.859	0.000	1110	1.10	38367.7251	1110
1035	2.962	0.202	0.417	0.000	1110	1.19	37708.5956	1110
1035	2.994	0.267	0.462	0.000	1110	1.13	38343.8431	3330
1035	3.034	0.229	0.000	0.145	1101	1.15	39045.8431	3303
1040	2.868	0.332	0.631	0.000	1110	1.14	37708.5682	1110
1040	2.865	0.351	0.000	0.000	1100	1.13	38640.9679	1101
1040	2.832	0.345	0.000	0.081	1101	1.18	38666.0119	1101
1040	2.967	0.333	0.000	0.119	1101	1.15	38666.8776	1101
1052	1.223	0.880	1.386	0.000	1110	1.04	38317.9062	1110
1052	1.245	0.848	1.340	0.000	1110	1.04	38365.7720	3330
1052	1.179	0.828	1.299	0.000	1110	1.04	38368.7555	3330

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1066	1.774	0.658	0.993	0.000	1110	1.07	38317.9104	1110
1066	1.666	0.697	1.093	0.000	1110	1.06	38361.7594	1110
1066	1.680	0.638	1.009	0.000	1110	1.06	38368.7628	3330
1069	4.493	-0.004	0.291	0.000	1110	1.03	38396.6635	1110
1084	1.764	0.491	0.822	0.000	1110	1.43	38302.8784	1110
1084	1.679	0.587	0.846	0.000	1110	1.36	38317.9145	1110
1084	1.677	0.525	0.826	0.000	1110	1.34	38369.7482	1110
1101	2.957	0.346	0.563	0.000	1110	1.20	38317.9187	1110
1101	2.958	0.359	0.495	0.000	1110	1.18	38369.7584	1110
1101	2.922	0.319	0.476	0.000	1110	1.19	38370.7622	3330
1106	2.051	0.742	1.090	0.000	1110	1.97	38769.6083	3340
1106	2.036	0.696	1.131	0.000	1110	2.20	38800.6000	3340
1122	3.355	-0.101	-0.206	0.000	1110	1.04	38315.8876	1110
1122	3.350	-0.097	-0.251	0.000	1110	1.04	38369.7762	1110
1122	3.307	-0.071	-0.219	0.000	1110	1.06	38370.7915	3330
1122	3.376	-0.126	-0.261	0.000	1110	1.05	38397.6472	3330
1123	3.905	-0.071	-0.160	0.000	1110	1.00	38396.6696	1110
1135	2.654	0.277	0.432	0.000	1110	1.02	38315.8964	1110
1135	2.496	0.433	0.559	0.000	1110	1.02	38371.7332	1110
1135	2.607	0.336	0.491	0.000	1110	1.03	38377.6987	3330
1135	2.630	0.238	0.511	0.000	1110	1.02	38397.6521	3330
1136	1.397	0.572	0.868	0.000	1110	1.35	38315.9071	1110
1136	1.399	0.582	0.835	0.000	1110	1.42	38370.8006	3330
1136	1.425	0.525	0.853	0.000	1110	1.41	38377.6879	3330
1136	1.393	0.583	0.862	0.000	1110	1.36	38397.6572	3330
1140	5.618	-0.157	0.000	0.110	1101	1.06	39051.8350	1101
1140	5.617	-0.139	0.000	0.000	1100	1.05	39054.8314	1101
1140	5.568	-0.154	0.000	0.045	1101	1.17	39066.7530	1101
1142	3.773	-0.104	-0.293	0.000	1110	1.08	38697.8868	4440
1142	3.936	-0.095	0.000	-0.022	1101	1.04	39051.8482	1101
1142	3.963	-0.081	0.000	-0.077	1101	1.10	39055.8042	1101
1142	3.987	-0.055	0.000	-0.098	1101	1.06	39063.8026	3303
1142	3.889	-0.019	0.000	-0.076	1101	1.19	39069.7406	1101
1144	5.782	-0.082	0.000	-0.011	1101	1.02	39051.8623	1101
1144	5.829	-0.002	0.000	0.195	1101	1.03	39055.8425	1101
1144	5.864	-0.080	0.000	-0.056	1101	1.03	39063.8178	3303
1145	4.496	-0.016	-0.129	0.000	1110	1.11	38697.8990	4440
1145	4.492	-0.101	0.000	-0.101	1101	1.05	39052.8360	1101
1145	4.517	-0.037	0.000	-0.023	1101	1.06	39061.8030	3303
1149	3.983	-0.003	-0.138	0.000	1110	1.14	38697.9076	4440
1149	3.986	-0.124	0.000	0.093	1101	1.03	39052.8470	1101
1149	4.021	-0.081	0.000	-0.035	1101	1.02	39061.8358	3303
1151	5.733	-0.001	0.000	-0.010	1101	1.02	39052.8571	1101
1151	5.910	-0.028	0.000	-0.023	1101	1.07	39062.7972	3303
1155	-0.667	1.152	1.887	0.000	1110	1.19	38315.9146	1110
1155	-0.665	1.164	1.920	0.000	1110	1.20	38377.7047	3330
1155	-0.618	1.162	1.945	0.000	1110	1.20	38378.7081	3330
1155	-0.669	1.183	1.956	0.000	1110	1.19	38392.7121	3330
1156	4.053	0.132	0.030	0.000	1110	1.16	38697.9139	4440
1156	4.055	0.008	0.000	0.213	1101	1.07	39053.8231	1101
1156	4.066	0.182	0.000	-0.067	1101	1.05	39062.8104	3303
1162	0.400	1.033	1.634	0.000	1110	1.44	38315.9378	1110
1162	0.246	1.042	1.681	0.000	1110	1.46	38377.6933	3330
1162	0.282	1.061	1.700	0.000	1110	1.43	38378.7031	3330
1162	0.226	1.094	1.714	0.000	1110	1.43	38392.7220	3330
1165	2.944	-0.027	-0.070	0.000	1110	1.02	38315.9225	1110
1165	2.943	-0.002	-0.075	0.000	1110	1.02	38377.7123	3330
1165	3.013	-0.039	-0.111	0.000	1110	1.02	38378.7142	3330
1165	3.066	-0.113	-0.138	0.000	1110	1.03	38392.7316	3330
1165	2.949	0.015	-0.039	0.000	1110	1.10	38392.7661	3330
1165	2.850	0.047	-0.083	0.000	1110	1.20	38678.7783	4440
1165	2.880	-0.001	-0.107	0.000	1110	1.01	38678.8674	4440
1165	2.958	-0.014	-0.135	0.000	1110	1.02	38680.8420	2220
1165	2.880	0.104	-0.169	0.000	1110	1.11	38681.7929	2220
1165	2.941	0.043	-0.172	0.000	1110	1.04	38693.7922	4440
1165	2.891	-0.006	-0.061	0.000	1110	1.04	38694.7873	4440
1165	2.370	0.001	-0.120	0.000	1110	1.06	38697.7687	4440
1165	2.883	-0.056	0.000	0.056	1101	1.10	39050.8181	1101
1165	3.014	0.050	0.000	0.112	1101	1.04	39062.8175	3303
1172	5.590	-0.069	0.000	-0.126	1101	1.05	39053.8352	1101
1172	5.748	-0.104	0.000	-0.172	1101	1.02	39062.8771	3303
1178	3.815	-0.007	-0.156	0.000	1110	1.17	38697.9186	4440
1178	3.743	-0.070	0.000	0.124	1101	1.07	39050.8321	1101
1178	3.795	-0.108	0.000	0.459	1101	1.02	39050.8775	1101
1178	3.850	-0.071	0.000	0.035	1101	1.02	39062.8884	3303

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1180	5.029	0.102	-0.124	0.000	1110	1.00	38693.8301	4440
1180	5.029	0.102	-0.124	0.000	1110	1.00	38693.8301	4440
1180	5.115	-0.006	-0.026	0.000	1110	1.00	38694.8311	4440
1180	5.115	-0.006	-0.026	0.000	1110	1.00	38694.8311	4440
1180	5.042	0.150	-0.019	0.000	1110	1.00	38697.8297	4440
1180	5.042	0.150	-0.019	0.000	1110	1.00	38697.8297	4440
1180	5.057	0.009	0.000	0.106	1101	1.03	39054.8459	1101
1195	2.096	0.575	0.892	0.000	1110	1.76	38769.6160	3340
1195	2.038	0.589	0.956	0.000	1110	1.93	38800.6049	3340
1203	2.665	-0.024	-0.026	0.000	1110	1.03	37712.5859	1110
1203	2.646	0.003	-0.074	0.000	1110	1.01	38315.9312	1110
1203	2.671	-0.022	-0.032	0.000	1110	1.00	38377.7375	3330
1203	2.650	0.014	0.013	0.000	1110	1.00	38378.7212	3330
1203	2.700	-0.014	0.000	0.065	1101	1.23	38671.8170	1101
1203	2.722	-0.073	0.000	0.014	1101	1.07	38675.8576	3303
1203	2.679	-0.042	0.000	-0.037	1101	1.03	38692.9214	1101
1220	3.560	-0.247	-0.424	0.000	1110	1.05	38315.9662	1110
1220	3.582	-0.093	-0.355	0.000	1110	1.01	38378.7267	3330
1220	3.510	-0.191	-0.397	0.000	1110	1.02	38397.6619	3330
1220	3.542	-0.201	0.000	0.067	1101	1.05	39076.7723	1101
1220	3.698	-0.210	0.000	-0.020	0101	1.05	39133.6199	1101
1220	3.604	-0.180	0.000	-0.020	0101	1.09	39135.5904	1101
1228	4.019	-0.083	-0.160	0.000	1110	1.10	37708.6368	1110
1228	3.995	-0.033	-0.076	0.000	1110	1.00	38343.8492	3330
1228	4.028	-0.054	0.000	-0.003	1101	1.19	38671.8273	1101
1228	4.053	-0.062	0.000	0.187	1101	1.02	38675.9625	3303
1228	3.935	-0.017	0.000	0.058	1101	1.10	38693.7944	1101
1228	4.006	-0.001	0.000	-0.010	1101	1.24	38694.7531	3303
1231	-0.848	0.994	1.542	0.000	1110	1.48	38315.9466	1110
1231	-0.951	1.001	1.566	0.000	1110	1.45	38361.7725	1110
1231	-0.989	1.015	1.656	0.000	1110	1.49	38367.7313	1110
1239	3.686	0.028	-0.115	0.000	1110	1.07	38316.8950	1110
1239	3.615	0.042	-0.021	0.000	1110	1.06	38377.7503	3330
1239	3.652	-0.029	-0.137	0.000	1110	1.07	38378.7325	3330
1239	3.830	-0.038	0.000	0.048	1101	1.08	39063.8365	3303
1242	3.757	0.172	0.461	0.000	1110	1.12	38396.6763	1110
1256	1.939	0.708	1.090	0.000	1110	1.02	38316.9005	1110
1256	1.971	0.627	1.061	0.000	1110	1.02	38377.7567	3330
1256	1.978	0.644	1.011	0.000	1110	1.02	38378.7392	3330
1302	4.038	0.239	0.284	0.000	1110	2.10	38769.6208	3340
1302	4.071	0.257	0.342	0.000	1110	2.22	38800.6097	3340
1302	3.977	0.302	0.343	0.000	1110	2.14	38801.5924	1120
1303	1.968	0.557	0.901	0.000	1110	1.04	38316.9071	1110
1303	1.936	0.531	0.901	0.000	1110	1.04	38377.7620	3330
1303	1.919	0.537	0.860	0.000	1110	1.08	38379.6908	3330
1303	1.877	0.576	0.000	0.109	1101	1.08	39038.0050	1101
1303	1.976	0.531	0.000	0.095	1101	1.13	39041.8528	1101
1309	4.397	0.147	0.263	0.000	1110	1.11	38396.6843	1110
1318	2.241	0.691	1.094	0.000	1110	1.37	38343.8546	3330
1318	2.209	0.740	1.117	0.000	1110	1.40	38397.6677	3330
1325	2.423	0.534	0.812	0.000	1110	1.31	38316.9220	1110
1325	2.395	0.543	0.857	0.000	1110	1.39	38379.6958	3330
1325	2.396	0.570	0.827	0.000	1110	1.33	38397.6733	3330
1326	1.424	0.611	0.983	0.000	1110	2.08	38769.6535	3340
1326	1.352	0.703	1.090	0.000	1110	2.26	38800.6153	3340
1326	1.350	0.710	1.081	0.000	1110	2.17	38801.5979	1120
1327	3.409	0.521	0.753	0.000	1110	1.21	38398.6506	3330
1327	3.415	0.467	0.000	0.033	1101	1.25	38666.8898	1101
1327	3.407	0.514	0.000	0.071	1101	1.42	38668.8141	1101
1346	1.525	0.559	0.918	0.000	1110	1.05	38316.9278	1110
1346	1.466	0.583	0.914	0.000	1110	1.10	38379.6994	3330
1346	1.535	0.533	0.866	0.000	1110	1.12	38392.7807	3330
1347	3.877	-0.033	-0.237	0.000	1110	1.66	38769.6590	3340
1347	3.774	0.084	-0.164	0.000	1110	1.80	38800.6208	3340
1347	3.948	-0.087	-0.306	0.000	1110	1.73	38801.6028	1120
1355	2.013	0.583	0.987	0.000	1110	4.85	38680.8955	2220
1355	1.975	0.595	1.264	0.000	1110	4.85	38693.8510	4440
1355	1.952	0.601	0.971	0.000	1110	4.85	38694.8521	4440
1355	1.940	0.627	1.209	0.000	1110	4.85	38697.8465	4440
1373	1.627	0.564	0.933	0.000	1110	1.04	38316.9433	1110
1373	1.561	0.605	0.879	0.000	1110	1.08	38379.7035	3330
1373	1.632	0.599	0.946	0.000	1110	1.04	38397.7157	3330
1373	1.657	0.606	0.000	0.073	1101	1.11	38640.9757	1101
1373	1.725	0.566	0.000	0.038	1101	1.24	38666.8673	1101
1373	1.681	0.594	0.000	0.195	1101	1.31	38667.8508	1101

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1393	0.512	0.958	1.485	0.000	1110	1.67	38769.6625	3340
1393	0.469	0.945	1.524	0.000	1110	1.82	38800.6278	3340
1393	0.550	0.930	1.457	0.000	1110	1.75	38801.6104	1120
1409	1.362	0.579	0.934	0.000	1110	1.03	38316.9508	1110
1409	1.272	0.654	0.957	0.000	1110	1.07	38379.7076	3330
1409	1.353	0.587	1.104	0.000	1110	1.03	38397.7194	3330
1411	1.707	0.589	0.928	0.000	1110	1.05	38323.8995	1110
1411	1.705	0.567	0.879	0.000	1110	1.08	38379.7129	3330
1411	1.787	0.528	0.930	0.000	1110	1.05	38397.7242	3330
1412	2.903	0.150	0.206	0.000	1110	1.04	38323.9036	1110
1412	2.921	0.121	0.131	0.000	1110	1.07	38379.7174	3330
1412	2.943	0.171	0.195	0.000	1110	1.05	38397.7280	3330
1417	5.468	-0.004	0.032	0.000	1110	1.08	38396.6900	1110
1453	2.187	0.703	1.016	0.000	1110	1.52	38769.6674	3340
1453	2.227	0.602	0.959	0.000	1110	1.64	38800.6319	3340
1453	2.232	0.621	0.965	0.000	1110	1.59	38801.6167	1120
1454	1.318	0.752	1.293	0.000	1110	1.02	38316.9134	1110
1454	1.345	0.773	1.299	0.000	1110	1.01	38323.9219	1110
1454	1.317	0.759	0.000	0.179	1101	1.05	39038.0157	1101
1454	1.356	0.726	0.000	0.143	1101	1.13	39041.8603	1101
1457	-2.862	0.980	1.505	0.000	1110	1.08	37713.6201	1110
1457	-2.847	0.993	1.550	0.000	1110	2.29	38260.8962	3330
1457	-2.810	1.008	1.587	0.000	1110	1.24	38260.9886	3330
1457	-2.783	0.933	1.574	0.000	1110	1.33	38295.8761	1110
1457	-2.746	0.911	1.517	0.000	1110	1.19	38296.9029	1110
1457	-2.853	1.113	1.616	0.000	1110	1.66	38298.8293	1110
1457	-2.794	0.958	1.550	0.000	1110	1.20	38298.8952	1110
1457	-2.782	0.990	1.549	0.000	1110	1.37	38300.8564	3330
1457	-2.866	1.030	1.608	0.000	1110	1.45	38301.8425	1110
1457	-2.807	1.007	1.594	0.000	1110	1.24	38302.8734	1110
1457	-2.834	0.937	1.540	0.000	1110	1.05	38305.9841	1110
1457	0.000	0.000	1.566	0.000	0010	1.07	38307.9184	1110
1457	-2.823	1.028	1.587	0.000	1110	1.08	38310.9999	1110
1457	-2.818	0.965	1.557	0.000	1110	1.04	38316.9346	1110
1457	-2.858	1.018	1.598	0.000	1110	1.04	38323.9287	1110
1457	-2.833	0.994	1.599	0.000	1110	1.10	38324.9720	1110
1457	-2.831	0.962	0.000	0.000	1100	1.04	38325.9150	1110
1457	-2.802	0.976	1.503	0.000	1110	1.14	38326.8363	1110
1457	-2.829	0.979	1.556	0.000	1110	1.05	38327.9244	1110
1457	-2.777	0.947	1.524	0.000	1110	1.04	38328.8929	1110
1457	-2.824	0.981	1.581	0.000	1110	2.11	38338.6912	3330
1457	-2.843	0.988	1.502	0.000	1110	1.04	38338.8883	3330
1457	-2.857	0.988	1.554	0.000	1110	2.20	38339.6842	4440
1457	-2.812	0.976	1.560	0.000	1110	1.04	38339.8639	4440
1457	-2.791	0.980	1.539	0.000	1110	1.68	38340.0303	4440
1457	-2.765	0.859	1.514	0.000	1110	2.34	38340.6756	3330
1457	-2.867	0.962	1.616	0.000	1110	2.24	38343.6713	3330
1457	-2.845	0.987	1.565	0.000	1110	1.04	38343.8723	3330
1457	-2.826	0.977	1.527	0.000	1110	1.75	38344.0254	3330
1457	-2.812	0.951	1.517	0.000	1110	1.05	38357.7983	1110
1457	-2.796	0.934	1.498	0.000	1110	1.19	38361.9012	1110
1457	-2.849	0.992	1.561	0.000	1110	1.12	38365.7373	3330
1457	-2.828	0.973	1.525	0.000	1110	1.07	38365.8411	3330
1457	-2.829	0.957	1.518	0.000	1110	1.64	38366.6448	1110
1457	-2.775	0.927	1.486	0.000	1110	1.05	38367.8253	1110
1457	-2.870	1.005	1.634	0.000	1110	1.58	38368.6454	3330
1457	-2.775	0.982	1.518	0.000	1110	1.08	38368.8393	3330
1457	-2.778	0.931	1.506	0.000	1110	1.04	38369.7964	1110
1457	-2.843	0.966	1.522	0.000	1110	1.05	38370.8108	3330
1457	-2.827	0.977	1.548	0.000	1110	2.09	38370.9722	3330
1457	-2.779	0.925	1.487	0.000	1110	1.20	38371.6944	1110
1457	-2.861	1.015	1.573	0.000	1110	1.04	38371.7807	1110
1457	-2.867	1.014	1.603	0.000	1110	1.04	38377.7682	3330
1457	-2.817	0.957	1.553	0.000	1110	1.05	38378.7468	3330
1457	-2.818	0.920	1.509	0.000	1110	1.05	38379.7446	3330
1457	-2.825	0.969	1.540	0.000	1110	1.04	38380.7656	3330
1457	-2.821	0.947	1.554	0.000	1110	1.90	38380.9341	3330
1457	-2.806	0.923	1.487	0.000	1110	1.05	38381.7823	3330
1457	-2.878	0.981	1.603	0.000	1110	1.04	38392.7261	3330
1457	-2.814	0.915	1.506	0.000	1110	1.04	38396.7030	1110
1457	-2.786	0.929	1.523	0.000	1110	1.06	38397.6780	3330
1457	-2.809	0.958	1.512	0.000	1110	1.06	38404.6660	3330
1457	-2.789	0.976	1.507	0.000	1110	1.06	38408.7189	3330
1457	-2.835	0.987	1.530	0.000	1110	1.06	38410.7149	3330
1457	-2.792	0.923	1.454	0.000	1110	1.08	38415.6181	3330
1457	-2.891	0.926	1.544	0.000	1110	1.09	38427.5786	1110
1457	-2.794	0.945	1.489	0.000	1110	1.12	38430.5577	3330
1457	-2.835	0.968	1.528	0.000	1110	1.04	38430.6239	3330
1457	-2.834	0.962	1.542	0.000	1110	1.10	38431.5627	3330
1457	-2.817	0.904	1.496	0.000	1110	1.06	38450.6042	1110
1457	-2.889	0.987	1.502	0.000	1110	1.31	38481.5985	1110
1457	-2.831	0.919	1.513	0.000	1110	1.27	38482.5885	1110
1457	-2.821	0.929	1.541	0.000	1110	2.33	38493.6467	3330
1457	-2.811	0.968	1.520	0.000	1110	2.37	38494.6455	3330
1457	-2.819	0.993	0.000	0.135	1101	1.08	38641.0003	1101
1457	-2.839	0.941	0.000	0.148	1101	1.04	38665.9815	1101
1457	-2.797	0.946	0.000	0.153	1101	1.22	38668.8760	1101
1457	-2.866	1.021	0.000	0.114	1101	1.63	38671.8107	1101
1457	-2.873	0.986	0.000	0.264	1101	1.16	38674.8769	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1457	-2.872	0.984	0.000	0.152	1101	1.04	38675.9484	3303
1457	-2.845	1.000	0.000	0.189	1101	1.81	38676.7828	3303
1457	-2.850	1.004	1.526	0.000	1110	1.00	38680.9040	2220
1457	-2.796	0.989	1.571	0.000	1110	1.02	38693.8368	4440
1457	-2.853	0.985	1.586	0.000	1110	1.21	38694.7667	4440
1457	-2.807	0.918	1.517	0.000	1110	1.28	38697.7458	4440
1457	-2.778	1.022	1.565	0.000	1110	1.00	38697.8589	4440
1457	-2.883	1.030	0.000	0.086	1101	1.92	38739.9526	1101
1457	-2.814	0.946	0.000	0.285	1101	1.08	38740.8239	1101
1457	-2.792	0.938	0.000	0.181	1101	2.27	38740.9672	1101
1457	-2.894	1.017	0.000	0.275	1101	1.19	38741.6845	1101
1457	-2.898	1.000	0.000	0.128	1101	1.04	38741.7604	1101
1457	-2.836	0.926	0.000	0.134	1101	2.31	38741.9661	1101
1457	-2.890	0.990	0.000	0.148	1101	1.24	38742.6694	1101
1457	-2.856	0.977	0.000	0.222	1101	2.37	38742.9655	1101
1457	-2.970	1.028	0.000	0.147	1101	2.13	38743.5816	1101
1457	-2.782	0.910	0.000	0.137	1101	2.33	38743.9613	1101
1457	-2.829	0.969	0.000	0.139	1101	1.07	38747.7135	1101
1457	-2.913	1.025	0.000	0.211	1101	1.17	38750.6669	1101
1457	-2.780	1.000	0.000	0.128	1101	1.04	38750.7617	1101
1457	-2.861	1.003	0.000	0.199	1101	1.22	38751.6490	1101
1457	-2.885	0.979	0.000	0.158	1101	1.10	38751.8009	1101
1457	-2.767	0.988	0.000	0.108	1101	2.21	38751.9345	1101
1457	-2.832	0.979	0.000	0.249	1101	1.21	38752.6496	1101
1457	-2.801	0.982	0.000	0.076	1101	1.04	38752.7357	1101
1457	-2.888	1.021	0.000	0.069	1101	2.29	38752.9353	1101
1457	-2.761	0.939	1.504	0.000	1110	1.24	38769.5569	3340
1457	-2.826	0.960	1.541	0.000	1110	1.01	38769.6396	3340
1457	-2.809	0.941	0.000	0.218	1101	1.04	38769.7003	1101
1457	-2.815	0.985	1.576	0.000	1110	1.15	38769.7472	3340
1457	-2.793	0.959	1.521	0.000	1110	1.58	38769.8097	3340
1457	-2.791	1.006	1.549	0.000	1110	1.67	38770.8146	1120
1457	-2.824	0.986	0.000	0.210	1101	1.07	38771.6529	1101
1457	-2.842	0.983	0.000	0.164	1101	1.04	38773.6728	1101
1457	-2.890	0.997	0.000	0.084	1101	2.39	38778.8679	1101
1457	-2.872	1.003	0.000	0.104	1101	1.05	38782.6785	1101
1457	-2.779	0.936	0.000	0.120	1101	1.32	38782.7758	1101
1457	-2.862	0.970	0.000	0.199	1101	1.05	38783.6357	1101
1457	-2.896	0.995	0.000	0.180	1101	1.38	38783.7833	1101
1457	-2.840	0.957	0.000	0.097	1101	2.21	38783.8471	1101
1457	-2.773	0.992	0.000	0.144	1101	1.17	38784.5714	1101
1457	-2.819	0.966	0.000	0.189	1101	1.06	38784.6920	1101
1457	-2.876	0.992	0.000	0.106	1101	2.27	38784.8468	1101
1457	-2.738	0.951	1.503	0.000	1110	1.00	38800.5694	3340
1457	-2.835	1.000	1.547	0.000	1110	1.22	38800.6799	3340
1457	-2.815	0.966	1.579	0.000	1110	1.00	38801.5722	1120
1457	-2.806	0.916	1.551	0.000	1110	1.61	38801.7257	1120
1457	-2.835	0.964	1.522	0.000	1110	1.02	38802.5417	3340
1457	-2.742	0.955	1.520	0.000	1110	1.21	38802.6708	3340
1457	-2.806	0.941	1.549	0.000	1110	2.31	38802.7604	3340
1457	-2.840	0.983	1.562	0.000	1110	1.04	38809.5094	2220
1457	-2.937	0.997	0.000	0.193	1101	1.04	38809.5713	1101
1457	-2.796	1.011	1.834	0.000	1110	1.14	38809.6370	2220
1457	-2.784	0.962	0.000	0.216	1101	2.36	38809.7821	1101
1457	-2.817	0.951	0.000	0.159	1101	1.04	38810.5746	1101
1457	-2.812	1.143	0.000	0.140	1101	2.24	38810.7748	1101
1457	-2.827	0.966	0.000	0.154	1101	1.04	38811.5759	1101
1457	-2.805	0.943	0.000	0.148	1101	2.32	38811.7751	1101
1457	-2.872	0.984	0.000	0.146	1101	1.04	38812.5847	1101
1457	-2.831	0.950	0.000	0.163	1101	1.04	38815.5745	1101
1457	-2.813	0.942	0.000	0.168	1101	2.20	38815.7596	1101
1457	-2.853	0.917	0.000	0.198	1101	1.04	38818.5744	1101
1457	-2.710	0.980	0.000	0.107	1101	2.18	38818.7501	1101
1457	-2.928	1.015	0.000	0.173	1101	1.05	38820.5739	1101
1457	-2.783	0.970	0.000	0.179	1101	2.40	38820.7539	1101
1457	-2.847	0.991	0.000	0.123	1101	2.23	38823.7389	1101
1457	-2.819	1.022	0.000	0.160	1101	2.09	38826.7241	1101
1457	-2.712	0.942	1.531	0.000	1110	1.10	38828.5708	3340
1457	-2.762	0.965	1.519	0.000	1110	1.88	38828.6701	3340
1457	-2.718	0.941	1.525	0.000	1110	3.24	38828.7125	3340
1457	-2.795	0.942	1.542	0.000	1110	1.06	38829.5556	1120
1457	-2.859	0.977	0.000	0.178	1101	1.14	38833.5930	1101
1457	-2.819	0.913	0.000	0.096	1101	2.40	38833.7183	1101
1457	-2.938	1.057	0.000	0.085	1101	2.21	38845.6781	1101
1457	-2.784	0.948	1.534	0.000	1110	1.21	38847.5494	4440
1457	-2.743	0.999	0.000	0.108	1101	1.07	39008.9984	3303
1457	-2.782	0.989	0.000	0.154	1101	1.05	39009.0138	3303
1457	-2.775	1.051	0.000	0.130	1101	1.16	39009.9579	1101
1457	-2.694	1.008	0.000	0.186	1101	1.12	39009.9731	1101
1457	-2.739	0.971	0.000	0.221	1101	1.06	39034.9355	1101
1457	-2.668	0.909	0.000	0.290	1101	1.08	39035.0175	1101
1457	-2.731	0.994	0.000	0.193	1101	1.16	39035.8865	1101
1457	-2.793	0.983	0.000	0.263	1101	1.07	39036.0082	1101
1457	-2.714	0.974	0.000	0.233	1101	1.19	39036.8753	1101
1457	-2.752	0.982	0.000	0.164	1101	1.09	39036.9135	1101
1457	-2.788	0.982	0.000	0.223	1101	1.11	39037.8990	1101
1457	-2.822	1.016	0.000	0.169	1101	1.09	39038.9087	1101
1457	-2.727	0.981	0.000	0.222	1101	1.12	39039.0247	1101
1457	-2.788	0.996	0.000	0.215	1101	1.31	39041.8380	1101
1457	-2.819	1.029	0.000	0.140	1101	1.77	39045.7755	3303
1457	-2.775	1.005	0.000	0.251	1101	1.11	39050.8644	1101
1457	-2.775	0.973	0.000	0.222	1101	1.07	39050.8880	1101
1457	-2.799	0.977	0.000	0.180	1101	1.09	39051.8733	1101
1457	-2.784	0.950	0.000	0.201	1101	1.13	39051.9944	1101
1457	-2.789	0.924	0.000	0.256	1101	1.09	39052.8670	1101
1457	-2.813	1.006	0.000	0.188	1101	1.06	39052.8904	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1457	-2.679	0.932	0.000	0.335	1101	1.24	39053.0201	1101
1457	-2.717	0.941	0.000	0.315	1101	1.14	39053.8458	1101
1457	-2.775	0.987	0.000	0.099	1101	1.16	39053.9962	1101
1457	-2.796	1.004	0.000	0.202	1101	1.10	39054.8560	1101
1457	-2.635	0.944	0.000	0.197	1101	1.25	39055.0167	1101
1457	-2.750	0.920	0.000	0.285	1101	1.11	39055.8519	1101
1457	-2.752	0.974	0.000	0.192	1101	1.22	39056.0078	1101
1457	-2.735	0.931	0.000	0.290	1101	1.94	39056.7341	1101
1457	-2.742	0.973	0.000	0.212	1101	1.07	39056.9523	1101
1457	-2.871	1.022	0.000	0.155	1101	2.12	39057.7219	3303
1457	-2.823	1.012	0.000	0.145	1101	2.19	39058.7157	3303
1457	-2.781	0.978	0.000	0.173	1101	1.08	39059.9486	1101
1457	-2.757	0.981	0.000	0.283	1101	1.04	39060.9058	1101
1457	-2.760	0.988	0.000	0.223	1101	1.04	39061.8798	3303
1457	-2.793	0.965	0.000	0.188	1101	2.49	39062.6935	3303
1457	-2.697	0.944	0.000	0.306	1101	1.04	39062.9099	3303
1457	-2.774	0.974	0.000	0.187	1101	2.38	39063.6946	3303
1457	-2.767	0.973	0.000	0.260	1101	1.06	39063.9227	3303
1457	-2.822	0.979	0.000	0.168	1101	2.30	39064.6950	3303
1457	-2.743	0.968	0.000	0.197	1101	1.30	39066.7711	1101
1457	-2.734	0.948	0.000	0.206	1101	1.15	39066.8056	1101
1457	-2.715	0.952	0.000	0.146	1101	1.19	39066.9718	1101
1457	-2.771	0.979	0.000	0.187	1101	1.09	39068.8245	1101
1457	-2.756	0.973	0.000	0.315	1101	1.04	39068.8724	1101
1457	-2.737	0.984	0.000	0.204	1101	1.17	39068.9603	1101
1457	-2.799	0.962	0.000	0.247	1101	1.04	39069.8605	1101
1457	-2.705	0.963	0.000	0.204	1101	1.04	39069.8776	1101
1457	-2.778	0.903	0.000	0.254	1101	2.11	39072.6813	3303
1457	-2.793	0.926	0.000	0.199	1101	1.24	39099.6930	1101
1457	-2.806	0.968	0.000	0.225	1101	1.04	39099.7932	1101
1457	-2.766	0.966	0.000	0.190	1101	1.39	39099.9189	1101
1457	-2.920	0.988	0.000	0.202	1101	1.04	39130.7165	1101
1457	-3.117	0.987	0.000	0.124	1101	1.06	39132.7385	3303
1457	-3.036	1.053	0.000	0.058	1101	1.12	39133.6340	1101
1457	-2.997	1.019	0.000	0.102	1101	1.04	39134.6815	1101
1457	-3.019	1.012	0.000	0.117	1101	1.10	39135.6351	1101
1457	-2.962	0.956	0.000	0.135	1101	1.08	39138.7319	1101
1464	1.689	0.628	0.936	0.000	1110	1.55	38769.6729	3340
1464	1.675	0.616	0.933	0.000	1110	1.69	38800.6375	3340
1464	1.702	0.579	0.877	0.000	1110	1.63	38801.6222	1120
1481	1.349	0.656	1.037	0.000	1110	1.46	38323.9083	1110
1481	1.309	0.697	1.088	0.000	1110	1.52	38379.7233	3330
1496	-0.350	1.057	1.775	0.000	1110	1.63	38323.9150	1110
1496	-0.388	1.037	1.741	0.000	1110	1.69	38379.7279	3330
1496	-0.343	1.049	1.738	0.000	1110	1.75	38392.7853	3330
1502	3.714	0.195	0.226	0.000	1110	2.06	38769.6778	3340
1502	3.695	0.158	0.154	0.000	1110	2.33	38800.6465	3340
1502	3.597	0.221	0.244	0.000	1110	2.22	38801.6306	1120
1543	2.141	0.288	0.421	0.000	1110	1.11	38317.9333	1110
1543	2.068	0.242	0.367	0.000	1110	1.12	38379.7544	3330
1543	2.120	0.302	-0.453	0.000	1100	1.11	38398.7178	3330
1552	4.074	-0.036	0.000	-0.126	1101	1.13	38820.5844	1101
1552	4.082	-0.067	0.000	-0.070	1101	1.36	38826.6490	1101
1552	4.201	-0.128	0.000	-0.023	1101	1.32	39058.8232	3303
1552	4.250	-0.145	0.000	-0.017	1101	1.26	39059.8361	1101
1577	-0.603	0.932	1.465	0.000	1110	1.00	38317.9393	1110
1577	-0.666	0.847	1.372	0.000	1110	1.00	38379.7604	3330
1577	-0.644	0.948	0.000	0.000	1100	1.00	38398.7213	3330
1577	-0.627	0.919	0.000	0.134	1101	1.10	38640.9826	1101
1577	-0.577	0.854	0.000	0.188	1101	1.25	38668.8633	1101
1580	1.369	0.783	1.221	0.000	1110	1.06	38317.9439	1110
1580	1.327	0.740	1.166	0.000	1110	1.06	38379.7654	3330
1580	1.398	0.757	1.202	0.000	1110	1.06	38398.7264	3330
1603	2.134	0.506	0.796	0.000	1110	1.13	38317.9488	1110
1603	2.067	0.498	0.738	0.000	1110	1.13	38379.7698	3330
1603	2.097	0.529	0.836	0.000	1110	1.13	38398.7437	3330
1605	1.481	0.364	0.574	0.000	1110	1.13	38296.9198	1110
1605	1.445	0.329	0.585	0.000	1110	1.02	38306.0012	1110
1605	1.532	0.360	0.619	0.000	1110	1.02	38317.9528	1110
1605	1.388	0.335	0.587	0.000	1110	1.61	38366.6394	1110
1605	1.388	0.394	0.616	0.000	1110	1.62	38367.0015	1110
1605	1.472	0.362	0.547	0.000	1110	1.05	38368.8611	3330
1605	1.429	0.367	0.564	0.000	1110	1.06	38369.8652	1110
1605	1.541	0.341	0.561	0.000	1110	1.12	38480.5916	1110
1605	1.497	0.360	0.000	-0.037	1101	1.52	38508.6006	1101
1605	1.452	0.418	0.000	0.382	1101	1.54	38509.6010	1101
1605	1.476	0.443	0.000	0.293	1101	1.56	38510.6010	1101
1605	1.513	0.279	0.000	0.212	1101	1.44	38511.5814	1101
1605	1.503	0.361	0.000	0.158	1101	1.10	38640.9895	1101
1605	1.484	0.358	0.000	0.239	1101	1.09	38666.9231	1101
1605	1.353	0.330	0.000	0.172	1101	1.23	38668.8696	1101
1607	0.055	2.839	3.514	0.000	1110	1.21	38809.5530	2220
1607	0.078	2.706	3.590	0.000	1110	1.55	38847.5690	4440

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1609	-0.320	2.359	3.248	0.000	1110	1.21	38680.9144	2220
1609	-0.238	2.303	3.254	0.000	1110	1.20	38697.8806	4440
1612	0.206	0.902	1.527	0.000	1110	1.02	38306.0072	1110
1612	0.210	0.970	1.584	0.000	1110	1.01	38317.9567	1110
1612	0.181	0.978	1.569	0.000	1110	1.04	38361.7849	1110
1612	0.158	0.988	1.556	0.000	1110	1.12	38365.7329	3330
1612	0.185	0.974	1.534	0.000	1110	1.01	38365.8359	3330
1612	0.144	0.976	1.553	0.000	1110	1.66	38366.6326	1110
1612	0.158	0.893	1.570	0.000	1110	1.53	38366.9898	1110
1612	0.182	1.028	1.568	0.000	1110	1.28	38367.6831	1110
1612	0.155	0.973	1.553	0.000	1110	1.15	38367.7180	1110
1612	0.188	0.972	1.621	0.000	1110	1.02	38367.7926	1110
1612	0.220	0.942	1.534	0.000	1110	1.03	38368.8542	3330
1612	0.215	0.957	1.553	0.000	1110	1.03	38369.8468	1110
1612	0.158	0.973	1.612	0.000	1110	1.01	38377.7785	3330
1612	0.139	0.979	1.668	0.000	1110	1.39	38382.9261	1110
1612	0.152	0.972	1.572	0.000	1110	1.01	38390.7655	3330
1612	0.214	0.937	1.535	0.000	1110	1.09	38391.8256	3330
1612	0.235	0.974	1.554	0.000	1110	1.01	38403.7216	3330
1612	0.188	0.976	0.000	0.000	1100	1.09	38403.7939	3330
1612	0.150	0.947	1.543	0.000	1110	1.26	38403.8454	3330
1612	0.189	0.959	1.544	0.000	1110	1.05	38404.6589	3330
1612	0.209	0.976	1.584	0.000	1110	1.02	38404.7333	3330
1612	0.192	0.953	1.536	0.000	1110	1.22	38404.8334	3330
1612	0.030	0.979	1.694	0.000	1110	1.01	38405.7021	0000
1612	0.073	0.974	1.691	0.000	1110	1.07	38405.7766	0000
1612	0.218	0.953	1.547	0.000	1110	1.06	38406.6512	3330
1612	0.210	0.927	1.525	0.000	1110	1.02	38406.7385	3330
1612	0.234	0.936	1.526	0.000	1110	1.01	38408.6998	3330
1612	0.122	0.970	1.523	0.000	1110	1.01	38410.6896	3330
1641	3.774	-0.255	-0.341	0.000	1110	1.08	38300.9282	3330
1641	3.757	-0.129	-0.285	0.000	1110	1.02	38306.0128	1110
1641	3.710	-0.139	-0.301	0.000	1110	1.25	38367.6914	1110
1641	3.706	-0.133	-0.329	0.000	1110	1.05	38368.8714	3330
1641	3.719	-0.151	-0.341	0.000	1110	1.04	38369.8560	1110
1641	3.597	-0.127	-0.158	0.000	1110	1.01	38405.7108	0000
1641	3.559	-0.070	-0.128	0.000	1110	1.05	38405.7663	0000
1641	3.692	-0.073	-0.311	0.000	1110	1.04	38406.7531	3330
1641	3.774	-0.155	-0.327	0.000	1110	1.01	38408.7095	3330
1641	3.708	-0.098	-0.324	0.000	1110	1.01	38410.7047	3330
1641	3.858	-0.131	-0.318	0.000	1110	1.02	38411.7135	3330
1648	-0.422	1.931	2.663	0.000	1110	1.05	38809.5615	2220
1648	-0.515	1.856	2.677	0.000	1110	1.60	38847.6058	4440
1652	1.801	0.769	1.191	0.000	1110	1.72	38769.6826	3340
1652	1.813	0.773	1.137	0.000	1110	1.87	38800.6535	3340
1652	1.838	0.751	1.191	0.000	1110	1.80	38801.6361	1120
1654	-0.241	0.903	1.461	0.000	1110	1.73	38323.9354	1110
1654	-0.192	0.899	1.382	0.000	1110	1.73	38339.8965	4440
1654	-0.251	0.897	1.421	0.000	1110	1.88	38400.6726	3330
1663	1.499	0.967	1.451	0.000	1110	2.73	38769.6882	3340
1663	1.465	0.948	1.529	0.000	1110	3.11	38800.6597	3340
1663	1.458	0.866	1.527	0.000	1110	2.73	38802.6000	3340
1666	2.383	0.158	0.152	0.000	1110	1.26	38323.9410	1110
1666	2.425	0.092	0.168	0.000	1110	1.26	38339.9008	4440
1666	2.353	0.125	0.184	0.000	1110	1.26	38377.7844	3330
1698	1.848	0.703	1.183	0.000	1110	1.15	38323.9477	1110
1698	1.839	0.749	1.117	0.000	1110	1.15	38339.9075	4440
1698	1.831	0.704	1.179	0.000	1110	1.15	38377.7913	3330
1702	3.571	-0.063	-0.172	0.000	1110	1.52	38323.9540	1110
1702	3.589	-0.091	-0.203	0.000	1110	1.51	38377.7988	3330
1702	3.533	-0.034	-0.187	0.000	1110	1.63	38400.6773	3330
1708	-1.836	0.502	0.786	0.000	1110	1.05	37712.6337	1110
1708	-1.721	0.500	0.801	0.000	1110	1.03	38323.9595	1110
1708	-1.776	0.514	0.772	0.000	1110	1.03	38377.8043	3330
1708	-1.767	0.527	0.822	0.000	1110	1.04	38378.7676	3330
1708	-1.677	0.470	0.000	0.070	1101	1.48	38508.6061	1101
1708	-1.794	0.501	0.000	0.118	1101	1.52	38509.6091	1101
1708	-1.710	0.484	0.000	0.103	1101	1.42	38510.5915	1101
1708	-1.791	0.481	0.000	0.048	1101	1.26	38511.5586	1101
1708	-1.711	0.457	0.000	0.051	1101	1.04	38668.0309	1101
1708	-1.745	0.502	0.000	0.119	1101	1.03	38670.0184	1101
1708	-1.761	0.451	0.000	0.125	1101	1.02	38670.9858	1101
1708	-1.749	0.446	0.000	0.182	1101	1.04	38672.0224	1101
1708	-1.779	0.502	0.000	0.067	1101	1.03	38725.8465	1101
1708	-1.789	0.482	0.000	0.124	1101	1.03	38730.7845	1101
1708	-1.857	0.520	0.000	0.076	1101	1.05	38742.7565	1101
1708	-1.874	0.558	0.000	0.086	1101	1.13	38771.8050	1101
1708	-1.718	0.470	0.000	0.137	1101	1.04	38812.6356	1101
1708	-1.868	0.500	0.000	0.032	1101	1.09	38822.6504	1101
1708	-1.843	0.481	0.000	0.085	1101	1.04	38823.6119	1101
1708	-1.803	0.527	0.000	0.116	1101	1.07	38826.6244	1101
1708	-1.792	0.474	0.000	0.101	1101	1.05	38843.5677	1101
1708	-1.781	0.508	0.000	0.047	1101	1.56	38843.6997	1101
1708	-1.778	0.454	0.000	0.106	1101	1.11	38845.5974	1101

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1713	0.173	0.029	-0.076	0.000	1110	1.38	37708.6663	1110
1713	0.203	0.020	-0.105	0.000	1110	1.29	37711.6178	1110
1713	0.258	0.008	-0.131	0.000	1110	1.83	37711.7222	1110
1713	0.228	0.038	-0.101	0.000	1110	1.41	37712.6639	1110
1713	0.236	0.005	-0.112	0.000	1110	1.32	37713.6318	1110
1713	0.156	0.066	-0.042	0.000	1110	1.43	38298.9523	1110
1713	0.182	0.034	-0.058	0.000	1110	2.31	38300.8608	3330
1713	0.176	0.027	-0.084	0.000	1110	1.33	38301.0280	3330
1713	0.237	-0.038	-0.034	0.000	1110	1.32	38304.0097	1110
1713	0.088	0.068	-0.010	0.000	1110	1.32	38305.9889	1110
1713	0.229	0.068	-0.010	0.000	1110	1.36	38308.0252	1110
1713	0.210	0.023	-0.051	0.000	1110	1.32	38315.9740	1110
1713	0.232	0.007	-0.086	0.000	1110	1.32	38317.9620	1110
1713	0.200	0.029	-0.059	0.000	1110	1.34	38323.9715	1110
1713	0.190	0.029	-0.042	0.000	1110	1.36	38324.9771	1110
1713	0.180	0.069	-0.013	0.000	1110	1.49	38326.0122	1110
1713	0.279	0.030	-0.062	0.000	1110	1.45	38327.9973	1110
1713	0.204	0.061	-0.046	0.000	1110	1.49	38329.0040	1110
1713	0.150	0.096	0.004	0.000	1110	2.23	38340.7556	3330
1713	0.201	-0.041	-0.084	0.000	1110	2.02	38343.7590	3330
1713	0.000	0.085	-0.055	0.000	0110	1.32	38343.8943	3330
1713	0.320	-0.061	-0.141	0.000	1110	2.05	38344.0210	3330
1713	0.216	0.029	-0.089	0.000	1110	1.50	38357.9259	1110
1713	0.162	0.028	-0.069	0.000	1110	1.48	38361.9119	1110
1713	0.243	-0.027	-0.087	0.000	1110	2.37	38365.6809	3330
1713	0.211	0.061	-0.071	0.000	1110	1.33	38365.8470	3330
1713	0.138	0.068	-0.023	0.000	1110	2.07	38368.6875	3330
1713	0.272	0.023	-0.097	0.000	1110	1.34	38368.8458	3330
1713	0.201	-0.007	-0.101	0.000	1110	2.23	38377.6542	3330
1713	0.215	-0.002	-0.073	0.000	1110	2.22	38378.6523	3330
1713	0.101	0.095	-0.004	0.000	1110	2.05	38379.6589	3330
1713	0.221	0.088	-0.068	0.000	1110	1.33	38379.8144	3330
1713	0.201	0.020	-0.075	0.000	1110	1.32	38380.7854	3330
1713	0.149	0.040	-0.050	0.000	1110	2.06	38380.9207	3330
1713	0.149	0.064	-0.029	0.000	1110	1.41	38381.8399	3330
1713	0.175	0.035	-0.057	0.000	1110	1.90	38381.9067	3330
1713	0.225	0.014	-0.063	0.000	1110	2.51	38381.9358	3330
1713	0.140	0.058	0.000	0.000	1100	2.03	38382.9131	1110
1713	0.187	0.017	-0.050	0.000	1110	2.09	38383.6455	3330
1713	0.201	0.018	-0.119	0.000	1110	1.35	38383.7462	3330
1713	0.209	0.044	-0.049	0.000	1110	2.17	38383.9187	3330
1713	0.193	0.033	-0.050	0.000	1110	2.11	38386.6364	3330
1713	0.229	0.011	-0.087	0.000	1110	1.33	38386.7937	3330
1713	0.192	0.048	-0.045	0.000	1110	1.42	38387.7116	3330
1713	0.263	0.026	-0.053	0.000	1110	1.32	38387.7806	3330
1713	0.203	0.051	-0.075	0.000	1110	1.32	38390.7570	3330
1713	0.243	-0.008	-0.131	0.000	1110	1.71	38390.8655	3330
1713	0.189	0.027	-0.048	0.000	1110	1.50	38391.8341	3330
1713	0.197	0.036	-0.054	0.000	1110	2.41	38391.9078	3330
1713	0.237	0.027	-0.121	0.000	1110	1.32	38392.7710	3330
1713	0.211	0.028	-0.051	0.000	1110	1.32	38396.7536	1110
1713	0.169	0.079	-0.053	0.000	1110	1.98	38397.6144	3330
1713	0.231	0.090	-0.056	0.000	1110	1.33	38398.7562	3330
1713	0.164	0.060	-0.071	0.000	1110	1.34	38400.7028	3330
1713	0.243	0.052	-0.070	0.000	1110	1.32	38403.7278	3330
1713	0.166	0.024	-0.102	0.000	1110	2.09	38403.8598	3330
1713	0.208	0.059	-0.098	0.000	1110	2.10	38404.5878	3330
1713	0.221	0.059	-0.059	0.000	1110	1.33	38404.7399	3330
1713	0.181	0.043	-0.055	0.000	1110	2.13	38404.8590	3330
1713	0.149	0.026	-0.053	0.000	1110	2.44	38406.8682	3330
1713	0.242	0.010	-0.104	0.000	1110	1.51	38408.6350	3330
1713	0.207	-0.000	-0.096	0.000	1110	1.43	38408.7724	3330
1713	0.169	0.020	-0.065	0.000	1110	1.71	38408.8158	3330
1713	0.149	0.028	-0.061	0.000	1110	2.38	38408.8603	3330
1713	0.187	0.065	-0.044	0.000	1110	1.46	38410.7733	3330
1713	0.194	0.041	0.000	0.000	1100	2.38	38410.8550	3330
1713	0.218	0.034	-0.095	0.000	1110	1.43	38411.6435	3330
1713	0.194	0.038	-0.084	0.000	1110	2.18	38411.8425	3330
1713	0.219	-0.026	-0.135	0.000	1110	1.43	38415.6314	3330
1713	0.181	0.022	-0.056	0.000	1110	1.32	38415.6928	3330
1713	0.173	0.007	-0.052	0.000	1110	1.40	38415.7463	3330
1713	0.159	0.007	-0.011	0.000	1110	1.86	38415.8114	3330
1713	0.136	0.068	-0.020	0.000	1110	1.43	38419.6220	3330
1713	0.141	0.048	-0.063	0.000	1110	1.33	38419.6998	3330
1713	0.161	0.028	-0.050	0.000	1110	1.52	38419.7601	3330
1713	0.172	0.034	-0.052	0.000	1110	2.27	38419.8254	3330
1713	0.185	0.030	-0.085	0.000	1110	1.51	38420.6022	3330
1713	0.207	0.040	-0.090	0.000	1110	1.32	38420.6864	3330
1713	0.226	0.031	-0.104	0.000	1110	1.57	38420.7655	3330
1713	0.187	0.041	-0.070	0.000	1110	2.23	38420.8207	3330
1713	0.180	0.053	-0.108	0.000	1110	1.46	38421.6090	1110
1713	0.216	0.020	-0.138	0.000	1110	1.42	38424.6108	3330
1713	0.204	0.090	-0.064	0.000	1110	1.32	38424.6603	3330
1713	0.237	-0.013	-0.075	0.000	1110	1.51	38424.7459	3330
1713	0.222	0.025	-0.056	0.000	1110	2.27	38424.8118	3330
1713	0.193	0.028	-0.099	0.000	1110	1.33	38425.6417	3330
1713	0.221	0.033	-0.097	0.000	1110	1.34	38425.6898	3330
1713	0.218	0.044	-0.103	0.000	1110	1.47	38425.7357	3330
1713	0.304	-0.031	-0.087	0.000	1110	2.28	38425.8095	3330
1713	0.180	0.045	0.000	0.000	1100	1.33	38427.6794	1110
1713	0.117	0.041	-0.049	0.000	1110	1.33	38431.6271	3330
1713	0.162	0.030	-0.067	0.000	1110	1.35	38431.6811	3330
1713	0.166	0.035	-0.054	0.000	1110	1.32	38450.5977	1110
1713	0.201	0.048	-0.085	0.000	1110	1.82	38480.6304	1110
1713	0.184	0.035	-0.071	0.000	1110	2.74	38493.6409	3330
1713	0.210	-0.014	-0.075	0.000	1110	2.34	38494.6238	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1713	0.256	-0.027	0.000	-0.020	1101	1.34	38672.0174	1101
1713	0.207	-0.004	0.000	0.042	1101	1.35	38674.9516	1101
1713	0.188	0.007	0.000	-0.006	1101	1.80	38675.8669	3303
1713	0.276	-0.025	0.000	0.055	1101	1.34	38676.0106	3303
1713	0.089	0.092	0.000	-0.031	1101	1.51	38693.0108	1101
1713	0.197	0.010	0.000	0.049	1101	2.07	38725.7101	1101
1713	0.273	-0.011	0.000	0.045	1101	1.61	38725.9358	1101
1713	0.192	0.006	0.000	-0.011	1101	1.32	38737.7947	1101
1713	0.196	0.037	0.000	0.002	1101	1.33	38739.8280	1101
1713	0.218	0.040	0.000	0.024	1101	2.16	38739.9435	1101
1713	0.260	-0.028	0.000	0.103	1101	2.64	38740.9607	1101
1713	0.169	0.018	0.000	0.042	1101	2.32	38741.6536	1101
1713	0.265	-0.042	0.000	0.233	1101	1.88	38741.9196	1101
1713	0.189	0.026	0.000	0.040	1101	2.10	38742.6622	1101
1713	0.151	0.015	0.000	0.088	1101	2.76	38742.9590	1101
1713	0.097	0.132	0.000	0.069	1101	1.89	38743.6730	1101
1713	0.353	-0.094	0.000	-0.028	1101	1.34	38743.8236	1101
1713	0.204	-0.004	0.000	0.152	1101	2.68	38743.9536	1101
1713	0.151	-0.003	0.000	0.080	1101	1.35	38744.7707	1101
1713	0.243	-0.002	0.000	0.031	1101	1.44	38747.7211	1101
1713	0.146	0.038	0.000	0.073	1101	1.82	38750.6595	1101
1713	0.124	0.068	0.000	0.023	1101	2.03	38751.6419	1101
1713	0.308	-0.006	0.000	-0.068	1101	2.56	38751.9278	1101
1713	0.160	0.062	0.000	0.031	1101	1.99	38752.6418	1101
1713	0.169	-0.020	0.000	0.020	1101	1.91	38752.8918	1101
1713	0.509	0.057	0.000	0.219	1101	1.32	38771.7286	1101
1713	0.182	0.037	0.000	0.071	1101	1.97	38773.5858	1101
1713	0.159	0.014	0.000	0.071	1101	1.65	38773.8097	1101
1713	0.222	0.037	0.000	0.049	1101	1.61	38778.6053	1101
1713	0.157	0.004	0.000	0.067	1101	1.40	38778.7510	1101
1713	0.289	-0.058	0.000	0.002	1101	2.46	38778.8505	1101
1713	0.211	0.031	0.000	0.116	1101	1.32	38782.6864	1101
1713	0.205	0.010	0.000	0.092	1101	1.37	38783.6427	1101
1713	0.180	-0.001	0.000	-0.063	1101	2.50	38783.8383	1101
1713	0.308	0.012	0.000	0.040	1101	1.86	38784.5640	1101
1713	0.172	-0.028	0.000	0.012	1101	2.61	38784.8396	1101
1713	0.047	0.026	0.000	-0.005	1101	1.35	38809.6486	1101
1713	0.072	0.079	0.000	-0.115	1101	2.74	38809.7754	1101
1713	0.153	0.015	0.000	-0.040	1101	1.48	38810.6835	1101
1713	0.155	0.040	0.000	0.067	1101	2.61	38810.7685	1101
1713	0.172	0.010	0.000	0.066	1101	1.35	38811.6399	1101
1713	0.137	0.010	0.000	0.058	1101	2.57	38811.7644	1101
1713	0.168	0.046	0.000	0.017	1101	1.33	38812.6269	1101
1713	0.206	0.015	0.000	0.020	1101	1.68	38812.7072	1101
1713	0.247	0.031	0.000	0.067	1101	1.42	38815.6551	1101
1713	0.214	0.004	0.000	0.071	1101	2.36	38815.7453	1101
1713	0.230	-0.023	0.000	0.064	1101	1.59	38820.6740	1101
1713	0.099	0.074	0.000	0.074	1101	1.38	38823.6200	1101
1713	0.186	0.016	0.000	0.083	1101	2.59	38823.7323	1101
1713	0.164	0.036	0.000	0.032	1101	1.46	38826.6352	1101
1713	0.248	-0.064	0.000	0.057	1101	1.36	38843.5605	1101
1713	0.120	-0.049	0.000	-0.014	1101	1.51	38845.5927	1101
1713	0.185	0.044	0.000	-0.023	1101	1.40	39034.9437	1101
1713	0.142	0.016	0.000	0.055	1101	1.33	39035.9772	1101
1713	0.148	-0.008	0.000	0.023	1101	1.34	39036.0239	1101
1713	0.208	0.009	0.000	0.047	1101	1.32	39036.9999	1101
1713	0.121	0.042	0.000	0.054	1101	1.35	39038.0220	1101
1713	0.180	0.025	0.000	0.027	1101	1.35	39039.0191	1101
1713	0.215	0.015	0.000	0.087	1101	1.33	39041.9585	1101
1713	0.199	-0.003	0.000	0.037	1101	2.07	39045.8338	3303
1713	0.218	0.016	0.000	0.034	1101	1.89	39056.8160	1101
1713	0.219	0.028	0.000	0.014	1101	1.33	39056.9596	1101
1713	0.199	-0.020	0.000	0.043	1101	2.04	39057.8024	3303
1713	0.207	-0.015	0.000	0.036	1101	1.90	39058.8096	3303
1713	0.196	0.002	0.000	0.007	1101	1.34	39058.9598	3303
1713	0.205	-0.005	0.000	0.003	1101	1.32	39059.9417	1101
1713	0.184	-0.003	0.000	-0.107	1101	1.32	39060.9313	1101
1713	0.204	0.028	0.000	0.081	1101	1.76	39061.8135	3303
1713	0.149	0.027	0.000	-0.016	1101	2.15	39063.7800	3303
1713	0.132	0.126	0.000	-0.110	1101	2.18	39072.7536	3303
1713	0.113	-0.042	0.000	0.106	1101	1.32	39132.7243	3303
1713	0.365	-0.025	0.000	0.095	1101	1.86	39133.6078	1101
1713	0.311	-0.009	0.000	0.125	1101	1.87	39135.6017	1101
1729	3.331	0.365	0.572	0.000	1110	1.02	38339.9361	4440
1729	3.276	0.308	0.607	0.000	1110	1.01	38343.9014	3330
1729	3.263	0.377	0.561	0.000	1110	1.05	38400.6836	3330
1740	4.142	0.014	0.408	0.000	1110	1.00	38396.7404	1110
1743	2.534	0.632	1.004	0.000	1110	1.70	38769.6924	3340
1743	2.399	0.669	0.981	0.000	1110	1.70	38802.6049	3340
1748	6.775	-0.211	0.000	0.000	1100	1.80	38783.8194	1101
1748	6.745	-0.091	0.000	0.000	1100	1.89	38784.8241	1101
1748	6.654	-0.063	0.000	0.172	1101	1.41	38823.6634	1101
1748	6.773	-0.109	0.000	0.108	1101	1.30	39041.9207	1101
1748	6.726	0.060	0.000	0.180	0101	1.25	39132.6953	3303
1763	6.303	-0.143	0.000	0.058	1101	1.25	38784.6061	1101
1763	6.384	-0.409	0.000	0.195	1101	1.64	38809.7586	1101
1763	6.262	-0.156	0.000	0.113	1101	1.10	38810.6039	1101
1763	6.167	-0.107	0.000	-0.149	1101	1.22	39035.9248	1101
1763	6.101	-0.010	0.000	-0.369	1101	1.10	39036.9819	1101
1763	6.441	-0.095	0.000	0.020	0101	1.14	39135.6851	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1765	5.236	-0.141	0.000	0.000	1100	1.20	38778.6715	1101
1765	5.256	-0.163	0.000	0.011	1101	1.50	38784.7925	1101
1765	5.178	-0.080	0.000	-0.016	1101	1.18	38820.6006	1101
1770	5.488	-0.197	0.000	-0.132	1101	1.25	39038.9253	1101
1770	5.628	-0.194	0.000	-0.080	1101	1.17	39041.9476	1101
1784	1.944	0.610	0.968	0.000	1110	1.32	38323.9654	1110
1784	1.867	0.652	0.988	0.000	1110	1.31	38377.8120	3330
1784	1.889	0.604	0.975	0.000	1110	1.33	38378.7737	3330
1788	4.005	-0.238	-0.407	0.000	1110	1.24	38343.9240	3330
1788	3.830	-0.052	-0.276	0.000	1110	1.23	38378.7786	3330
1788	3.963	-0.159	-0.412	0.000	1110	1.23	38379.7792	3330
1788	0.000	-0.008	0.000	0.000	0100	1.22	38737.8151	1101
1788	3.833	-0.195	0.000	0.000	1100	1.36	38737.8900	1101
1788	4.156	-0.201	0.000	-0.081	1101	1.43	38738.7287	1101
1788	3.882	0.052	0.000	-0.084	1101	1.50	38739.9091	1101
1788	3.853	-0.120	0.000	0.006	1101	1.41	38740.7260	1101
1790	3.123	0.000	-0.215	0.000	0010	1.11	38339.9146	4440
1790	2.286	-0.116	-0.338	0.000	1110	1.12	38378.7845	3330
1790	2.312	-0.160	-0.369	0.000	1110	1.12	38379.7840	3330
1790	2.345	-0.180	0.000	-0.070	1101	1.25	38666.9329	1101
1790	2.391	-0.194	0.000	0.017	1101	1.37	38667.9066	1101
1790	2.381	-0.198	0.000	0.050	1101	1.24	38668.9312	1101
1791	2.007	-0.049	-0.116	0.000	1110	1.00	38339.9188	4440
1791	2.137	-0.147	-0.307	0.000	1110	1.00	38378.8003	3330
1791	2.003	-0.035	-0.238	0.000	1110	1.00	38379.7900	3330
1804	5.069	0.226	0.362	0.000	1110	1.00	38396.7470	1110
1829	0.905	0.490	0.774	0.000	1110	1.70	38343.9284	3330
1829	0.907	0.545	0.773	0.000	1110	1.67	38379.7950	3330
1829	0.846	0.539	0.802	0.000	1110	1.79	38400.6917	3330
1830	3.109	0.784	0.000	0.000	1100	1.31	38324.8985	1110
1830	3.230	0.683	0.000	0.000	1100	1.30	38387.7303	3330
1830	3.229	0.732	0.000	0.000	1100	1.39	38390.8459	3330
1830	3.165	0.751	0.000	0.000	1100	1.39	38391.8427	3330
1830	3.113	0.782	0.000	0.000	1100	1.42	38391.8497	3330
1830	3.236	0.676	0.000	0.000	1100	1.39	38403.8094	3330
1830	3.197	0.679	0.000	0.000	1100	1.42	38403.8159	3330
1830	3.209	0.702	0.000	0.000	1100	1.49	38404.8252	3330
1830	3.201	0.680	0.000	0.000	1100	1.33	38408.7828	3330
1839	4.565	0.005	0.000	-0.018	1101	1.12	38725.8629	1101
1839	4.690	-0.117	0.000	0.012	1101	1.14	38742.7766	1101
1839	4.665	-0.082	0.000	0.044	1101	1.54	38743.9292	1101
1842	6.045	-0.052	0.000	-0.009	1101	1.61	38725.7294	1101
1842	5.960	-0.070	0.000	0.032	1101	1.32	38741.7301	1101
1842	5.994	-0.071	0.000	0.000	1100	1.51	38742.6948	1101
1842	5.957	-0.078	0.000	0.071	1101	1.28	38743.7366	1101
1845	-0.885	1.130	2.032	0.000	1110	1.05	38343.9332	3330
1845	-0.902	1.219	2.048	0.000	1110	1.03	38345.8818	1110
1845	-0.913	1.217	2.069	0.000	1110	1.04	38361.8329	1110
1845	-0.875	1.160	2.072	0.000	1110	1.21	38367.7373	1110
1845	-0.877	1.181	0.000	0.409	1101	1.27	38674.8841	1101
1845	-0.862	1.278	0.000	0.259	1101	1.48	38675.8503	3303
1845	-0.905	1.293	0.000	0.380	1101	1.07	38693.8927	1101
1852	2.912	-0.150	-0.378	0.000	1110	1.21	38343.9373	3330
1852	2.904	-0.165	-0.338	0.000	1110	1.18	38379.7991	3330
1852	2.904	-0.116	-0.382	0.000	1110	1.18	38398.7504	3330
1852	2.871	-0.127	0.000	0.067	1101	1.32	38671.9284	1101
1852	3.006	-0.183	0.000	-0.003	1101	1.18	38675.9869	3303
1852	2.900	-0.139	0.000	0.216	1101	1.22	38693.9014	1101
1852	2.905	-0.200	0.000	-0.087	1101	1.99	38778.8600	1101
1852	2.875	-0.174	0.000	0.071	1101	1.45	38783.7961	1101
1852	2.816	-0.185	0.000	0.038	1101	1.23	38809.5819	1101
1852	2.881	-0.215	0.000	0.048	1101	1.18	39036.0014	1101
1852	2.920	-0.199	0.000	-0.036	1101	1.36	39036.9216	1101
1855	5.585	-0.276	0.000	-0.588	1101	1.30	38671.9985	1101
1855	5.393	-0.144	0.000	0.272	1101	1.31	38693.9303	1101
1855	5.548	-0.262	0.000	-0.731	1101	1.38	38725.8029	1101
1855	5.590	-0.276	0.000	-0.213	1101	1.51	39076.8140	1101
1862	1.334	0.738	1.111	0.000	1110	1.72	38769.6965	3340
1862	1.220	0.702	1.135	0.000	1110	1.72	38802.6083	3340
1863	6.791	-0.031	0.000	0.000	1100	1.65	38742.9265	1101
1863	6.971	-0.171	0.000	0.000	1100	1.21	38743.7937	1101
1863	6.930	-0.037	0.000	0.000	1100	1.29	38747.7418	1101
1863	6.780	-0.037	0.000	-0.211	1101	1.37	38750.7165	1101
1863	6.926	-0.024	0.000	0.000	1100	1.68	38773.8445	1101
1865	0.000	0.220	0.276	5.506	0111	1.59	38339.9410	4440
1865	1.839	0.241	0.279	0.000	1110	1.56	38361.8507	1110
1865	1.927	0.115	0.194	0.000	1110	1.96	38367.7444	1110
1865	1.825	0.181	0.260	0.000	1110	1.67	38400.6958	3330
1865	1.902	0.102	0.176	0.000	1110	1.61	38430.6294	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1868	6.126	-0.357	-0.473	0.000	1110	1.25	38380.8446	3330
1868	5.886	-0.094	0.000	-0.181	1101	1.75	38810.7522	1101
1868	5.924	-0.142	0.000	-0.239	1101	1.20	38811.6175	1101
1868	5.914	-0.135	0.000	0.003	1101	1.21	38812.6047	1101
1868	5.941	-0.071	0.000	-0.044	1101	1.25	39056.9921	1101
1876	4.971	-0.131	0.000	0.021	1101	1.29	39056.8565	1101
1876	4.984	-0.193	0.000	-0.015	1101	1.30	39057.8507	3303
1879	3.928	-0.167	-0.343	0.000	1110	1.12	38343.9478	3330
1879	3.921	-0.140	-0.341	0.000	1110	1.15	38380.8579	3330
1879	3.946	-0.143	-0.366	0.000	1110	1.11	38400.7090	3330
1895	3.755	0.349	0.000	0.418	1101	1.57	38665.9238	1101
1895	3.581	0.436	0.424	0.000	1110	1.25	37711.6385	1110
1895	3.821	0.388	0.000	0.445	1101	1.35	38666.9652	1101
1895	3.877	0.363	0.000	0.411	1101	1.27	38668.0052	1101
1897	4.718	0.141	0.000	0.000	1100	1.42	37711.6924	1110
1897	4.931	0.065	0.000	0.744	1101	1.51	38665.9332	1101
1897	5.022	0.005	0.000	0.590	1101	1.30	38666.9831	1101
1897	5.005	0.065	0.000	0.695	1101	1.27	38668.0147	1101
1897	5.062	0.019	0.000	0.487	1101	1.74	38751.9013	1101
1897	4.898	0.148	0.000	0.421	1101	1.91	38752.9131	1101
1897	4.982	0.083	0.000	0.516	1101	1.28	38773.7218	1101
1899	3.515	-0.233	-0.462	0.000	1110	1.34	37708.6819	1110
1899	3.498	-0.181	-0.417	0.000	1110	1.42	38380.8718	3330
1899	3.443	-0.126	-0.376	0.000	1110	1.31	38400.7141	3330
1899	3.438	-0.151	-0.363	0.000	1110	1.42	38427.7443	1110
1899	3.552	-0.214	0.000	0.007	1101	1.35	39058.9978	3303
1899	3.554	-0.240	0.000	-0.067	1101	1.45	39060.0190	1101
1903	2.232	-0.118	-0.317	0.000	1110	1.37	37708.7101	1110
1903	2.180	-0.105	-0.299	0.000	1110	1.24	38343.9420	3330
1903	2.221	-0.098	-0.294	0.000	1110	1.22	38400.7187	3330
1903	2.157	-0.080	-0.252	0.000	1110	1.31	38427.7368	1110
1903	2.169	-0.108	-0.240	0.000	1110	1.35	38427.7505	1110
1903	2.140	-0.064	-0.308	0.000	1110	1.36	38430.5882	3330
1903	2.199	-0.122	-0.258	0.000	1110	1.28	38431.6083	3330
1903	2.220	-0.107	0.000	0.104	1101	1.41	38671.9185	1101
1903	2.245	-0.139	0.000	0.054	1101	1.21	38675.9766	3303
1903	2.137	-0.097	0.000	0.030	1101	1.21	38693.9650	1101
1903	2.152	-0.164	0.000	-0.060	1101	1.49	38752.8841	1101
1903	2.179	-0.141	0.000	0.051	1101	1.22	39035.9845	1101
1903	2.157	-0.116	0.000	-0.024	1101	1.28	39036.9500	1101
1907	1.711	0.666	1.042	0.000	1110	1.09	38397.7489	3330
1907	1.686	0.639	1.052	0.000	1110	1.23	38427.7566	1110
1907	1.671	0.657	1.016	0.000	1110	1.19	38430.5972	3330
1908	2.118	1.006	1.597	0.000	1110	1.08	38339.9234	4440
1908	0.000	1.049	1.671	0.000	0110	1.12	38343.9528	3330
1910	2.980	0.241	0.169	0.000	1110	1.02	38397.7532	3330
1910	2.970	0.253	0.111	0.000	1110	1.03	38400.7230	3330
1910	2.875	0.299	0.151	0.000	1110	1.09	38430.6021	3330
1931	4.492	-0.158	0.000	-0.022	1101	1.25	38811.5892	1101
1931	4.505	-0.172	0.000	-0.035	1101	1.42	38845.6155	1101
1934	4.688	-0.052	-0.091	0.000	1110	1.34	38415.8010	3330
1934	4.923	-0.090	0.000	0.000	1100	1.36	38424.5906	3330
1934	4.757	-0.005	0.000	-0.050	1101	1.22	38812.6822	1101
1934	4.904	-0.101	0.000	0.051	1101	1.15	38815.5891	1101
1934	4.803	-0.081	0.000	0.038	1101	1.14	38818.5897	1101
1938	5.973	-0.098	0.013	0.000	1110	1.18	38847.5835	4440
1948	2.356	-0.148	-0.328	0.000	1110	1.41	38427.7627	1110
1948	2.320	-0.115	-0.335	0.000	1110	1.31	38430.6068	3330
1948	2.334	-0.142	-0.257	0.000	1110	1.28	38431.6137	3330
1948	2.309	-0.098	0.000	0.006	1101	1.35	38671.9369	1101
1948	2.346	-0.139	0.000	-0.050	1101	1.21	38675.9962	3303
1948	2.293	-0.113	0.000	0.067	1101	1.23	38693.9759	1101
1948	2.389	-0.167	0.000	0.023	1101	2.13	38751.9424	1101
1948	2.285	-0.132	0.000	-0.054	1101	1.40	38752.8705	1101
1948	2.359	-0.074	0.000	0.074	1101	1.73	38773.6057	1101
1948	2.296	-0.124	0.000	-0.004	1101	1.22	39035.9931	1101
1948	2.386	-0.122	0.000	0.050	1101	1.28	39036.9590	1101
1956	2.915	-0.056	-0.269	0.000	1110	1.66	38769.7035	3340
1956	2.755	0.011	-0.131	0.000	1110	1.66	38802.6132	3340
1963	2.134	0.815	1.221	0.000	1110	1.23	38343.9590	3330
1963	2.110	0.773	1.163	0.000	1110	1.25	38430.6132	3330
1963	2.110	0.736	1.210	0.000	1110	1.22	38431.6215	3330
1977	0.336	1.997	2.842	0.000	1110	1.00	38809.5948	2220
1977	0.233	1.923	2.901	0.000	1110	1.28	38847.6107	4440
1983	2.403	0.340	0.447	0.000	1110	1.74	38365.8590	3330
1983	2.448	0.270	0.401	0.000	1110	1.74	38392.7895	3330
1983	2.410	0.264	0.405	0.000	1110	1.80	38430.6355	3330
1983	2.386	0.279	0.424	0.000	1110	1.80	38431.6322	3330

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
1995	2.320	0.606	0.952	0.000	1110	1.01	38392.7940	3330
1995	2.345	0.559	0.869	0.000	1110	1.05	38430.6181	3330
2004	2.664	-0.066	-0.339	0.000	1110	1.56	37713.7052	1110
2004	2.575	-0.095	-0.304	0.000	1110	1.35	38317.9807	1110
2004	2.620	-0.150	-0.356	0.000	1110	1.38	38430.6425	3330
2004	2.551	-0.110	-0.297	0.000	1110	1.38	38431.6374	3330
2004	2.647	-0.154	0.000	-0.003	1101	1.35	38672.0102	1101
2004	2.545	-0.108	0.000	-0.014	1101	1.48	38693.0205	1101
2011	0.696	1.044	1.672	0.000	1110	1.00	38317.9858	1110
2011	0.655	1.037	1.672	0.000	1110	1.03	38325.0134	1110
2012	1.544	0.683	1.062	0.000	1110	1.01	38317.9903	1110
2012	1.458	0.714	1.087	0.000	1110	1.01	38430.6980	3330
2012	1.525	0.637	1.017	0.000	1110	1.02	38431.6487	3330
2018	1.356	1.115	1.919	0.000	1110	1.00	38339.9301	4440
2018	1.300	1.171	1.901	0.000	1110	1.00	38430.6921	3330
2018	1.316	1.140	1.897	0.000	1110	1.01	38431.6447	3330
2035	1.323	0.697	1.066	0.000	1110	1.68	38317.9986	1110
2035	1.291	0.702	1.077	0.000	1110	1.69	38392.8002	3330
2035	1.323	0.656	1.008	0.000	1110	1.70	38430.7033	3330
2037	1.763	0.743	1.394	0.000	1110	1.16	38396.7589	1110
2040	0.526	0.775	1.094	0.000	1110	1.73	38769.7083	3340
2040	0.525	0.661	1.080	0.000	1110	1.73	38802.6181	3340
2056	5.349	-0.212	-0.341	0.000	1110	1.65	38802.6236	3340
2061	-4.052	1.021	1.763	0.000	1110	1.14	38345.8686	1110
2061	-1.878	1.088	1.827	0.000	0110	1.11	38379.8064	3330
2061	-4.055	0.986	1.680	0.000	1110	1.11	38431.6569	3330
2061	-4.061	1.040	1.730	0.000	1110	1.21	38480.6115	1110
2061	-4.124	1.015	0.000	0.278	1101	1.29	38666.9432	1101
2061	-4.174	1.027	0.000	0.287	1101	1.10	38676.0040	3303
2061	-4.262	0.994	0.000	0.198	1101	1.13	38693.9960	1101
2061	-3.153	1.004	0.000	0.301	1101	1.10	38771.7444	1101
2077	1.458	0.647	1.003	0.000	1110	1.08	38316.9801	1110
2077	1.476	0.595	0.986	0.000	1110	1.09	38430.7093	3330
2077	1.463	0.627	0.989	0.000	1110	1.08	38431.6681	3330
2085	2.856	0.227	0.342	0.000	1110	1.45	38316.9892	1110
2085	2.898	0.223	0.276	0.000	1110	1.50	38430.7153	3330
2085	2.951	0.200	0.258	0.000	1110	1.46	38431.6619	3330
2088	1.870	-0.004	0.012	0.000	1110	1.02	38316.9965	1110
2088	1.878	-0.026	-0.026	0.000	1110	1.03	38361.8623	1110
2088	1.835	0.013	0.000	0.000	1110	1.03	38368.8792	3330
2091	-0.814	1.130	1.939	0.000	1110	1.03	38317.0018	1110
2091	-0.842	1.129	1.901	0.000	1110	1.04	38369.8789	1110
2091	-0.781	1.113	1.901	0.000	1110	1.03	38431.6740	3330
2091	-0.942	1.225	0.000	0.230	1101	1.03	38771.7522	1101
2095	2.792	0.006	-0.083	0.000	1110	1.00	38317.9941	1110
2095	2.693	-0.030	-0.109	0.000	1110	1.03	38369.8887	1110
2095	2.774	-0.027	-0.150	0.000	1110	1.08	38380.8900	3330
2106	4.748	-0.128	-0.298	0.000	1110	1.71	38802.6333	3340
2113	1.512	0.779	1.268	0.000	1110	1.29	38369.8970	1110
2113	1.536	0.832	1.289	0.000	1110	1.50	38427.7865	1110
2113	1.578	0.794	1.281	0.000	1110	1.23	38431.6868	3330
2120	1.563	0.636	0.932	0.000	1110	2.11	38769.7139	3340
2120	1.379	0.681	1.081	0.000	1110	2.12	38802.6396	3340
2134	2.124	0.546	0.880	0.000	1110	1.01	38315.9951	1110
2134	2.119	0.580	0.915	0.000	1110	1.19	38427.7929	1110
2134	2.147	0.600	0.864	0.000	1110	1.01	38431.6910	3330
2135	3.873	0.217	0.240	0.000	1110	1.05	37713.6687	1110
2135	3.848	0.099	0.281	0.000	1110	1.24	38427.7997	1110
2135	3.850	0.225	0.243	0.000	1110	1.03	38431.6953	3330
2135	4.085	0.070	0.000	0.150	1101	1.04	39057.9944	3303
2135	3.886	0.149	0.000	0.153	1101	1.03	39058.9785	3303
2135	3.921	0.200	0.000	0.160	0101	1.08	39130.8239	1101
2199	4.939	-0.132	0.000	-0.072	1101	1.16	38771.8315	1101
2216	-1.219	1.147	1.833	0.000	1110	1.02	38316.0029	1110
2216	-1.393	1.032	1.801	0.000	1110	1.22	38427.8066	1110
2216	-1.344	1.063	1.803	0.000	1110	1.02	38431.6993	3330
2219	1.910	0.675	1.085	0.000	1110	1.00	38316.0091	1110
2219	1.949	0.595	1.042	0.000	1110	1.20	38427.8111	1110
2219	1.956	0.660	1.021	0.000	1110	1.00	38431.7046	3330
2227	1.060	0.759	1.270	0.000	1110	1.28	38323.9884	1110
2227	1.017	0.834	1.302	0.000	1110	1.28	38392.8060	3330
2227	1.072	0.760	1.223	0.000	1110	1.29	38431.7104	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
2256	2.259	0.590	0.866	0.000	1110	1.71	38769.7187	3340
2256	2.251	0.561	0.871	0.000	1110	1.84	38800.7014	3340
2256	2.143	0.633	0.979	0.000	1110	1.72	38801.6667	1120
2286	-1.894	1.092	1.852	0.000	1110	1.02	38316.0155	1110
2286	-1.932	1.097	1.837	0.000	1110	1.24	38427.8158	1110
2286	-1.852	1.084	1.794	0.000	1110	1.02	38431.7152	3330
2294	2.626	-0.074	-0.323	0.000	1110	1.57	38392.8108	3330
2294	2.690	-0.152	-0.414	0.000	1110	1.58	38430.7213	3330
2294	2.681	-0.173	-0.417	0.000	1110	1.59	38431.7205	3330
2296	1.845	0.566	0.812	0.000	1110	1.64	38769.7229	3340
2296	1.930	0.471	0.774	0.000	1110	1.77	38800.7056	3340
2296	1.827	0.568	0.833	0.000	1110	1.66	38801.6722	1120
2308	0.815	1.438	2.338	0.000	1110	1.08	38329.0170	1110
2308	0.621	1.397	2.252	0.000	1110	1.06	38400.8078	3330
2308	0.644	1.371	2.277	0.000	1110	1.33	38427.8232	1110
2326	-1.316	0.211	0.211	0.000	1110	3.17	38801.6618	1120
2326	-1.386	0.134	0.189	0.000	1110	3.15	38802.6465	3340
2326	-1.220	0.200	0.209	0.000	1110	3.15	38829.5729	1120
2361	4.921	-0.215	-0.279	0.000	1110	1.61	38802.6528	3340
2392	4.034	0.567	0.979	0.000	1110	1.52	38384.8952	1110
2405	-0.705	1.658	2.540	0.000	1110	1.08	38809.6016	2220
2405	-0.723	1.628	2.573	0.000	1110	1.26	38847.6355	4440
2421	1.904	-0.005	-0.044	0.000	1110	1.15	37708.7456	1110
2421	1.856	0.028	0.002	0.000	1110	1.30	37711.7720	1110
2421	1.933	0.003	-0.019	0.000	1110	1.06	38329.0214	1110
2427	2.064	0.747	1.231	0.000	1110	1.02	38343.9647	3330
2427	2.052	0.724	1.195	0.000	1110	1.03	38400.8195	3330
2429	1.645	0.635	0.963	0.000	1110	1.61	38339.9490	4440
2429	0.000	0.000	0.000	5.307	0001	1.61	38339.9517	4440
2429	1.576	0.661	0.987	0.000	1110	1.62	38361.8780	1110
2429	1.595	0.650	1.029	0.000	1110	1.61	38368.8860	3330
2443	1.853	0.730	1.081	0.000	1110	1.57	38339.9546	4440
2443	1.763	0.728	1.127	0.000	1110	1.58	38361.8898	1110
2451	3.409	-0.025	-0.190	0.000	1110	2.14	38828.5806	3340
2456	5.316	-0.034	0.000	0.000	1100	1.89	38511.6517	1101
2473	0.206	0.773	1.242	0.000	1110	1.01	38325.0176	1110
2473	0.232	0.752	1.223	0.000	1110	1.01	38396.7888	1110
2473	0.229	0.799	1.211	0.000	1110	1.01	38398.7847	3330
2478	1.832	0.749	1.156	0.000	1110	1.07	38326.0228	1110
2478	1.861	0.699	1.168	0.000	1110	1.06	38396.7937	1110
2478	1.834	0.736	1.132	0.000	1110	1.06	38398.7889	3330
2484	2.318	0.269	0.382	0.000	1110	1.07	38326.0279	1110
2484	2.289	0.252	0.370	0.000	1110	1.11	38397.8567	3330
2484	2.297	0.272	0.404	0.000	1110	1.06	38398.7934	3330
2491	-1.328	-0.007	-0.085	0.000	1110	1.66	37711.7325	1110
2491	-1.290	-0.028	-0.111	0.000	1110	1.48	37712.6698	1110
2491	-1.261	-0.032	-0.091	0.000	1110	1.62	37713.7214	1110
2491	-1.291	-0.003	-0.070	0.000	1110	1.67	38305.9947	1110
2491	-1.397	0.018	0.000	-0.075	1101	1.63	38510.5475	1101
2491	-1.217	-0.151	0.000	0.059	1101	1.61	38511.5392	1101
2491	-1.368	-0.066	0.000	0.075	1101	1.94	38531.5340	1101
2491	0.000	0.000	0.000	-0.020	0001	1.55	38667.0391	1101
2491	-1.310	-0.024	0.000	0.047	1101	1.59	38675.0026	1101
2491	-1.277	-0.035	-0.155	0.000	1110	1.47	38680.9082	2220
2491	-1.345	-0.009	-0.104	0.000	1110	1.31	38680.9430	2220
2491	-1.303	-0.020	-0.111	0.000	1110	1.73	38693.8424	4440
2491	-1.285	0.010	-0.114	0.000	1110	4.71	38697.7529	4440
2491	-1.300	-0.031	-0.125	0.000	1110	1.52	38697.8543	4440
2491	-1.302	-0.008	-0.089	0.000	1110	1.24	38697.9276	4440
2491	-1.267	-0.056	-0.200	0.000	1110	1.75	38769.6333	3340
2491	-1.273	-0.029	-0.148	0.000	1110	1.23	38769.7424	3340
2491	-1.385	0.018	-0.083	0.000	1110	1.34	38769.8132	3340
2491	-1.308	-0.021	-0.129	0.000	1110	2.71	38769.9167	3340
2491	-1.311	-0.037	-0.139	0.000	1110	1.34	38770.8097	1120
2491	-1.272	-0.054	-0.148	0.000	1110	1.51	38800.5743	3340
2491	-1.355	-0.020	-0.071	0.000	1110	1.24	38800.6847	3340
2491	-1.255	-0.043	-0.154	0.000	1110	4.12	38800.8569	3340
2491	-1.330	0.016	-0.147	0.000	1110	1.47	38801.5771	1120
2491	-1.441	0.017	-0.053	0.000	1110	1.36	38801.7306	1120
2491	-1.301	-0.037	-0.148	0.000	1110	1.62	38809.5366	2220
2491	-1.297	-0.054	-0.104	0.000	1110	1.23	38809.6517	2220
2491	-1.261	-0.108	0.000	0.024	1101	1.99	38826.7297	1101
2491	-1.376	-0.009	-0.075	0.000	1110	1.24	38828.5757	3340
2491	-1.244	-0.053	-0.117	0.000	1110	1.46	38828.6764	3340
2491	-1.368	-0.038	-0.117	0.000	1110	3.34	38828.7694	3340
2491	-1.302	-0.022	-0.134	0.000	1110	1.25	38829.5597	1120
2491	-1.222	-0.108	0.000	0.019	1101	2.09	38845.6858	1101
2491	-1.257	-0.030	-0.103	0.000	1110	1.23	38847.5438	4440

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
2491	-1.303	-0.031	0.000	0.036	1101	2.16	39009.0185	3303
2491	-1.316	-0.026	0.000	-0.100	1101	1.53	39052.0005	1101
2491	-1.248	0.012	0.000	0.053	1101	1.52	39053.0133	1101
2491	-1.324	0.006	0.000	-0.090	1101	1.52	39054.0113	1101
2491	-1.153	0.033	0.000	-0.093	1101	1.55	39055.0286	1101
2491	-1.371	0.018	0.000	-0.052	1101	1.54	39056.0228	1101
2491	-1.189	-0.032	0.000	-0.022	1101	1.53	39058.0074	3303
2491	-1.300	0.022	0.000	-0.004	1101	2.33	39061.8638	3303
2491	-1.324	-0.024	0.000	0.022	1101	2.23	39062.8664	3303
2491	-1.309	-0.081	0.000	-0.050	1101	1.53	39066.9773	1101
2491	-1.353	0.010	0.000	-0.042	1101	1.52	39068.9655	1101
2491	-1.309	-0.033	0.000	-0.024	1101	1.52	39099.8786	1101
2491	-1.387	-0.023	0.000	-0.034	1101	2.23	39132.9088	3303
2491	-1.364	-0.107	0.000	-0.129	1101	1.80	39134.8667	1101
2560	2.352	0.550	0.873	0.000	1110	1.25	38380.9650	3330
2560	2.310	0.555	0.919	0.000	1110	1.14	38397.8627	3330
2560	2.340	0.565	0.833	0.000	1110	1.11	38398.8056	3330
2574	0.675	0.945	1.429	0.000	1110	1.40	38339.9610	4440
2574	0.676	0.924	1.444	0.000	1110	1.51	38397.8674	3330
2574	0.635	0.937	1.419	0.000	1110	1.40	38398.8111	3330
2580	0.491	0.810	1.334	0.000	1110	1.81	38339.9659	4440
2580	0.432	0.797	1.370	0.000	1110	1.83	38400.8246	3330
2580	0.416	0.827	1.437	0.000	1110	1.81	38431.7250	3330
2591	0.899	1.550	2.311	0.000	1110	2.08	38809.6448	2220
2591	0.861	1.441	2.374	0.000	1110	2.24	38847.5961	4440
2608	0.505	1.141	1.815	0.000	1110	2.71	38769.7271	3340
2608	0.587	1.078	1.756	0.000	1110	2.72	38800.7097	3340
2608	0.545	1.141	1.847	0.000	1110	2.62	38801.6771	1120
2618	2.126	-0.128	-0.461	0.000	1110	1.52	38769.7333	3340
2618	2.200	-0.239	-0.511	0.000	1110	1.55	38800.7153	3340
2618	2.117	-0.165	-0.491	0.000	1110	1.49	38801.6826	1120
2630	3.107	0.537	0.813	0.000	1110	1.02	38396.8451	1110
2630	3.109	0.514	0.824	0.000	1110	1.17	38414.8635	3330
2646	-0.468	0.969	1.626	0.000	1110	1.52	38800.7201	3340
2646	-0.501	1.004	1.643	0.000	1110	1.47	38801.6889	1120
2653	3.238	0.006	-0.121	0.000	1110	1.79	38339.9702	4440
2653	3.260	-0.014	-0.172	0.000	1110	1.81	38400.8299	3330
2653	3.202	-0.076	-0.159	0.000	1110	1.79	38431.7309	3330
2671	2.244	1.753	0.000	0.473	1101	1.23	39100.0055	1101
2693	0.400	0.372	0.495	0.000	1110	1.51	38800.7326	3340
2693	0.385	0.389	0.513	0.000	1110	1.43	38801.6938	1120
2693	0.484	0.390	0.000	0.106	1101	1.96	39130.8418	1101
2697	1.602	0.754	1.243	0.000	1110	1.01	38324.0003	1110
2697	1.572	0.845	1.289	0.000	1110	1.00	38339.9749	4440
2697	1.587	0.797	1.175	0.000	1110	1.00	38368.8952	3330
2701	2.561	0.618	1.019	0.000	1110	1.24	38343.9712	3330
2701	2.511	0.684	1.086	0.000	1110	1.24	38398.8292	3330
2702	5.463	-0.322	-0.560	0.000	1110	1.94	38828.5868	3340
2740	3.702	0.165	0.229	0.000	1110	2.44	38828.5917	3340
2745	4.763	0.031	-0.134	0.000	1110	1.42	38828.6000	3340
2745	4.670	0.079	-0.108	0.000	1110	1.47	38829.5649	1120
2748	-1.782	1.355	2.787	0.000	1110	2.43	38800.7389	3340
2748	-1.788	1.409	2.873	0.000	1110	2.25	38801.6986	1120
2749	4.389	-0.057	-0.320	0.000	1110	1.43	38769.7618	3340
2749	4.156	0.046	-0.097	0.000	1110	1.55	38800.7451	3340
2749	4.299	-0.122	-0.356	0.000	1110	1.46	38801.7118	1120
2762	5.131	-0.197	-0.324	0.000	1110	2.57	38828.6090	3340
2762	5.159	-0.285	-0.280	0.000	1110	2.65	38829.5778	1120
2766	0.191	1.101	1.775	0.000	1110	1.46	38769.7660	3340
2766	0.220	1.099	1.760	0.000	1110	1.59	38800.7479	3340
2773	-1.050	0.978	1.613	0.000	1110	1.79	38769.7701	3340
2773	-1.093	0.981	1.565	0.000	1110	1.79	38828.6153	3340
2777	2.611	0.227	0.362	0.000	1110	1.04	37712.6466	1110
2777	2.628	0.249	0.397	0.000	1110	1.02	38325.0225	1110
2821	1.413	0.665	1.043	0.000	1110	1.01	38324.0075	1110
2821	1.516	0.582	0.994	0.000	1110	1.00	38340.0000	4440
2827	2.603	-0.028	-0.176	0.000	1110	1.50	38828.6208	3340
2827	2.530	-0.009	-0.189	0.000	1110	1.54	38829.5840	1120
2845	3.104	-0.017	-0.174	0.000	1110	1.10	38370.8911	3330
2845	3.092	-0.037	-0.190	0.000	1110	1.09	38379.8808	3330
2845	3.007	0.039	-0.092	0.000	1110	1.14	38397.8805	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
2852	3.411	0.228	0.282	0.000	1110	1.24	37767.6591	3330
2852	3.390	0.142	0.280	0.000	1110	1.36	37778.6515	1110
2852	3.361	0.243	0.311	0.000	1110	1.00	38379.8920	3330
2852	3.310	0.227	0.307	0.000	1110	1.14	38380.9766	3330
2854	0.901	0.931	1.429	0.000	1110	1.09	38379.8855	3330
2854	0.900	0.878	1.444	0.000	1110	1.10	38397.8071	3330
2854	0.884	0.922	1.452	0.000	1110	1.09	38400.8359	3330
2878	-0.402	0.978	1.548	0.000	1110	2.14	38769.7743	3340
2878	-0.424	0.975	1.563	0.000	1110	2.14	38828.6250	3340
2881	2.821	0.462	0.712	0.000	1110	1.55	38828.6306	3340
2881	2.691	0.469	0.740	0.000	1110	1.59	38829.5889	1120
2890	1.542	0.001	-0.047	0.000	1110	1.05	37708.7628	1110
2890	1.527	0.027	-0.048	0.000	1110	1.03	37767.5921	3330
2890	1.542	0.005	0.001	0.000	1110	2.11	37767.7501	3330
2890	1.547	0.004	-0.027	0.000	1110	1.07	37768.6082	3330
2890	1.560	-0.017	-0.009	0.000	1110	1.85	37768.7322	3330
2890	1.527	0.036	0.078	0.000	1110	1.11	37769.6218	1110
2890	1.556	-0.021	-0.061	0.000	1110	1.12	37777.6054	3330
2890	1.512	-0.001	-0.007	0.000	1110	2.16	37777.7253	3330
2890	1.484	0.040	0.037	0.000	1110	1.14	37778.6080	1110
2890	1.580	0.055	0.001	0.000	1110	2.45	37778.7350	1110
2890	1.412	0.150	0.063	0.000	1110	1.14	37779.6056	1110
2890	1.581	-0.033	-0.050	0.000	1110	1.26	37780.6328	1110
2890	1.397	0.023	0.045	0.000	1110	1.35	37799.5964	1110
2890	1.456	-0.018	-0.021	0.000	1110	1.35	37801.5914	3330
2890	1.506	0.035	0.053	0.000	1110	1.25	38300.9819	3330
2890	1.537	0.015	0.008	0.000	1110	1.03	38317.0174	1110
2890	1.532	0.039	0.031	0.000	1110	1.01	38325.0083	1110
2890	1.537	0.038	0.065	0.000	1110	1.02	38340.0352	4440
2890	1.509	0.023	0.012	0.000	1110	1.11	38367.0078	1110
2890	1.445	0.003	0.007	0.000	1110	1.14	38370.0091	1110
2890	1.523	0.039	0.030	0.000	1110	1.08	38377.8181	3330
2890	1.576	-0.062	-0.040	0.000	1110	2.22	38379.6748	3330
2890	1.577	-0.003	-0.043	0.000	1110	1.00	38379.8990	3330
2890	1.565	0.022	-0.024	0.000	1110	1.66	38380.7083	3330
2890	1.560	0.014	-0.043	0.000	1110	1.00	38380.8999	3330
2890	1.544	-0.009	-0.028	0.000	1110	1.00	38384.8742	1110
2890	1.544	0.005	0.004	0.000	1110	1.00	38388.8597	1110
2890	1.500	0.010	-0.002	0.000	1110	1.81	38392.6628	3330
2890	1.563	-0.003	-0.009	0.000	1110	1.00	38392.8531	3330
2890	1.485	0.048	0.001	0.000	1110	1.93	38396.6443	1110
2890	1.553	0.021	0.024	0.000	1110	1.00	38396.8583	1110
2890	1.510	0.006	-0.011	0.000	1110	2.23	38397.6253	3330
2890	1.560	0.032	-0.011	0.000	1110	1.10	38397.7583	3330
2890	1.487	0.021	-0.034	0.000	1110	2.17	38398.6253	3330
2890	1.502	0.028	0.009	0.000	1110	2.24	38399.6191	3330
2890	1.551	0.025	0.002	0.000	1110	1.01	38400.8007	3330
2890	1.533	0.016	0.010	0.000	1110	2.16	38407.0231	3330
2890	1.556	0.040	-0.016	0.000	1110	1.02	38410.8380	3330
2890	1.495	0.057	0.023	0.000	1110	2.45	38420.0003	3330
2890	1.486	0.040	0.026	0.000	1110	2.14	38425.9701	3330
2890	1.505	0.013	0.034	0.000	1110	1.00	38427.7681	1110
2890	1.555	0.015	0.001	0.000	1110	1.00	38431.7417	3330
2890	1.531	0.052	-0.008	0.000	1110	1.01	38450.6692	1110
2890	1.500	0.012	-0.003	0.000	1110	1.00	38476.6266	1110
2890	1.527	0.006	-0.033	0.000	1110	1.36	38476.7643	1110
2890	1.371	0.012	0.034	0.000	1110	1.01	38480.6378	1110
2890	1.545	-0.007	-0.017	0.000	1110	1.06	38481.6721	1110
2890	1.500	0.031	-0.005	0.000	1110	1.01	38482.6303	1110
2890	1.530	0.020	-0.025	0.000	1110	1.00	38483.6039	1110
2890	1.530	0.010	-0.015	0.000	1110	1.58	38483.7716	1110
2890	1.608	0.000	-0.057	0.000	1110	1.01	38493.6065	3330
2890	1.574	0.033	0.000	0.000	1110	2.88	38493.8118	3330
2890	1.486	0.038	0.010	0.000	1110	1.02	38494.6146	3330
2890	1.543	-0.020	-0.020	0.000	1110	1.02	38499.5951	1110
2890	1.557	0.022	-0.050	0.000	1110	1.55	38499.7253	1110
2890	1.333	-0.060	-0.022	0.000	1110	1.38	38500.7010	1110
2890	1.522	0.016	0.006	0.000	1110	1.03	38502.5990	1110
2890	1.564	0.001	-0.009	0.000	1110	1.17	38505.6461	1110
2890	1.510	0.064	0.000	0.018	1101	1.24	38512.6448	1101
2890	1.571	0.004	0.000	0.086	1101	1.15	38692.9326	1101
2890	1.506	0.042	0.000	0.073	1101	1.08	38693.9536	1101
2890	1.564	0.093	0.000	0.029	1101	1.49	38694.8653	3303
2890	1.466	0.014	0.000	0.006	1101	1.01	38769.8494	1101
2890	1.610	-0.060	0.000	0.057	1101	1.87	38771.6213	1101
2890	1.402	0.065	0.000	0.012	1101	1.05	38771.8720	1101
2890	1.660	-0.058	0.000	0.049	1101	1.12	38875.6176	1101
2890	1.555	-0.004	0.000	0.001	1101	1.00	39058.0169	3303
2890	1.523	-0.004	0.000	0.032	1101	1.00	39059.0110	3303
2890	1.540	-0.001	0.000	0.002	1101	1.00	39060.0291	1101
2890	1.474	0.047	0.000	0.012	1101	1.01	39061.0028	1101
2890	1.618	-0.024	0.000	-0.065	1101	1.05	39062.9591	3303
2890	1.529	-0.001	0.000	0.066	1101	1.03	39063.9687	3303
2890	1.588	-0.020	0.000	0.034	1101	1.02	39135.7788	1101
2890	1.589	0.026	0.000	0.009	1101	1.01	39139.7751	1101
2905	0.356	0.922	1.491	0.000	1110	1.01	38340.0037	4440
2905	0.309	0.971	1.559	0.000	1110	1.01	38396.8256	1110
2905	0.254	0.958	1.550	0.000	1110	1.04	38397.8854	3330
2937	4.896	-0.188	-0.263	0.000	1110	1.70	38828.6417	3340

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
2943	-0.676	0.280	0.430	0.000	1110	1.49	37711.8220	1110
2943	-0.666	0.286	0.396	0.000	1110	2.58	37767.7339	3330
2943	-0.648	0.268	0.415	0.000	1110	1.12	38340.0083	4440
2943	-0.678	0.220	0.401	0.000	1110	2.40	38365.7511	3330
2943	-0.654	0.266	0.418	0.000	1110	1.60	38369.7887	1110
2943	-0.659	0.217	0.354	0.000	1110	1.12	38369.9254	1110
2943	-0.644	0.261	0.349	0.000	1110	1.74	38370.7730	3330
2943	-0.648	0.270	0.357	0.000	1110	1.12	38370.9227	3330
2943	-0.660	0.281	0.369	0.000	1110	2.37	38377.7194	3330
2943	-0.627	0.241	0.355	0.000	1110	1.14	38381.9175	3330
2943	-0.609	0.260	0.387	0.000	1110	1.12	38383.8797	3330
2943	-0.669	0.256	0.340	0.000	1110	1.15	38385.9102	1110
2943	-0.617	0.237	0.401	0.000	1110	2.26	38391.0336	3330
2943	-0.609	0.223	0.329	0.000	1110	1.13	38391.8783	3330
2943	-0.671	0.252	0.392	0.000	1110	1.14	38397.8123	3330
2943	-0.642	0.213	0.352	0.000	1110	2.23	38398.6679	3330
2943	-0.682	0.231	0.379	0.000	1110	2.27	38400.6603	3330
2943	-0.615	0.241	0.343	0.000	1110	2.15	38403.6576	3330
2943	-0.637	0.222	0.380	0.000	1110	2.21	38404.9931	3330
2943	-0.584	0.261	0.307	0.000	1110	2.21	38408.6412	3330
2943	-0.659	0.249	0.385	0.000	1110	2.23	38408.9832	3330
2943	-0.636	0.235	0.322	0.000	1110	2.02	38410.6451	3330
2943	-0.663	0.256	0.352	0.000	1110	2.15	38411.6359	3330
2943	-0.613	0.222	0.343	0.000	1110	2.15	38415.6247	3330
2943	-0.671	0.236	0.366	0.000	1110	1.23	38415.8604	3330
2943	-0.659	0.247	0.360	0.000	1110	2.16	38419.6135	3330
2943	-0.639	0.236	0.386	0.000	1110	1.13	38419.8037	3330
2943	-0.683	0.232	0.391	0.000	1110	2.22	38420.6079	3330
2943	-0.624	0.276	0.354	0.000	1110	1.14	38420.8042	3330
2943	-0.636	0.274	0.334	0.000	1110	2.09	38424.6030	3330
2943	-0.594	0.206	0.373	0.000	1110	1.15	38424.8037	3330
2943	-0.686	0.236	0.414	0.000	1110	2.28	38424.9416	3330
2943	-0.654	0.271	0.338	0.000	1110	2.20	38425.5953	3330
2943	-0.650	0.248	0.384	0.000	1110	1.14	38425.7898	3330
2943	-0.717	0.248	0.422	0.000	1110	2.22	38425.9360	3330
2943	-0.662	0.227	0.353	0.000	1110	2.20	38430.5816	3330
2943	-0.689	0.228	0.379	0.000	1110	2.01	38431.5882	3330
2943	-0.660	0.269	0.371	0.000	1110	1.13	38450.6749	1110
2943	-0.625	0.227	0.330	0.000	1110	1.98	38476.7846	1110
2943	-0.652	0.159	0.376	0.000	1110	1.23	38481.6810	1110
2943	-0.652	0.250	0.366	0.000	1110	1.58	38483.7346	1110
2943	-0.590	0.251	0.000	0.046	1101	1.25	38508.6122	1101
2943	-1.699	0.229	0.000	-0.048	0101	1.29	38509.6213	1101
2943	-0.700	0.219	0.000	0.011	1101	1.42	38512.6362	1101
2943	-0.544	0.219	0.000	-0.055	1101	1.40	38532.5773	1101
2943	-0.717	0.280	0.000	-0.053	1101	1.12	38693.0302	1101
2943	-0.703	0.290	0.000	0.080	1101	1.16	38693.9899	1101
2943	-0.641	0.281	0.000	0.055	1101	1.13	38739.9201	1101
2943	-0.641	0.257	0.000	0.293	1101	1.14	38769.8540	1101
2943	-0.615	0.247	0.000	0.057	1101	1.25	38811.7837	1101
2943	-0.613	0.263	0.000	0.018	1101	1.16	38812.6628	1101
2943	-0.628	0.247	0.000	-0.033	1101	1.12	38812.7008	1101
2943	-0.670	0.262	0.000	0.064	1101	1.24	38815.7692	1101
2943	-0.655	0.219	0.000	0.055	1101	1.24	38818.7601	1101
2943	-0.653	0.295	0.000	0.080	1101	1.26	38820.7622	1101
2943	-0.597	0.190	0.000	0.070	1101	1.31	39134.9128	1101
2943	-0.589	0.211	0.000	0.029	1101	1.28	39139.8929	1101
2961	5.459	-0.206	-0.440	0.000	1110	1.89	38828.6590	3340
2970	0.000	0.646	1.020	0.000	0110	1.34	38343.9860	3330
2970	1.649	0.613	1.014	0.000	1110	1.35	38396.8299	1110
2970	1.585	0.624	1.017	0.000	1110	1.34	38400.8422	3330
2973	1.664	0.699	1.139	0.000	1110	1.00	38396.8340	1110
2973	1.625	0.699	1.093	0.000	1110	1.03	38397.8899	3330
2985	1.420	0.559	0.931	0.000	1110	1.16	38380.9854	3330
2985	1.460	0.582	0.963	0.000	1110	1.01	38396.8375	1110
2985	1.484	0.563	0.855	0.000	1110	1.05	38397.8958	3330
2990	-1.116	0.616	0.956	0.000	1110	1.03	37708.7562	1110
2990	-1.134	0.624	0.978	0.000	1110	1.10	37711.7838	1110
2990	-1.088	0.603	0.945	0.000	1110	1.01	37713.7263	1110
2990	-1.109	0.575	0.928	0.000	1110	1.01	37721.7025	1110
2990	-1.091	0.594	0.000	0.000	1100	1.23	37721.7924	1110
2990	-1.113	0.612	0.000	0.000	1100	1.01	37722.6495	1100
2990	-1.111	0.598	0.000	0.000	1100	1.14	37722.7667	1100
2990	-1.090	0.600	0.000	0.000	1100	1.22	37723.5625	1100
2990	-1.090	0.617	0.967	0.000	1110	1.02	37767.5841	3330
2990	-1.073	0.593	0.952	0.000	1110	1.93	37767.7432	3330
2990	-1.036	0.581	0.951	0.000	1110	1.07	37768.6175	3330
2990	-1.137	0.613	1.028	0.000	1110	1.92	37768.7399	3330
2990	-1.086	0.633	1.004	0.000	1110	1.13	37769.6353	1110
2990	-1.072	0.611	0.958	0.000	1110	1.13	37777.6133	3330
2990	-1.109	0.612	0.977	0.000	1110	2.26	37777.7326	3330
2990	-1.105	0.592	0.961	0.000	1110	1.15	37778.6174	1110
2990	-1.113	0.608	0.957	0.000	1110	1.14	37779.6120	1110
2990	-1.097	0.595	0.973	0.000	1110	1.21	37780.6271	1110
2990	-1.199	0.615	1.034	0.000	1110	1.29	37799.5903	1110
2990	-1.185	0.596	0.999	0.000	1110	1.36	37799.6022	1110
2990	-1.183	0.583	1.016	0.000	1110	1.30	37801.5863	3330
2990	-1.103	0.599	0.985	0.000	1110	2.68	37801.6819	3330
2990	-1.013	0.611	0.951	0.000	1110	1.34	37802.5913	1110
2990	-1.103	0.589	0.949	0.000	1110	1.45	37809.5868	1110
2990	-1.040	0.602	0.961	0.000	1110	1.28	38300.9865	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
2990	-1.103	0.584	0.955	0.000	1110	1.02	38316.0325	1110
2990	-1.036	0.612	0.960	0.000	1110	1.05	38318.0116	1110
2990	-1.124	0.584	0.998	0.000	1110	1.01	38324.0288	1110
2990	-1.041	0.566	0.906	0.000	1110	1.01	38326.0168	1110
2990	-1.005	0.610	0.939	0.000	1110	1.01	38329.0108	1110
2990	-1.040	0.617	0.952	0.000	1110	1.01	38343.9808	3330
2990	-1.005	0.657	0.956	0.000	1110	1.07	38358.0191	1110
2990	-1.097	0.603	0.957	0.000	1110	1.19	38365.8292	3330
2990	-1.069	0.581	0.952	0.000	1110	1.01	38368.9501	3330
2990	-1.080	0.652	0.916	0.000	1110	1.93	38369.7303	1110
2990	-1.126	0.623	0.965	0.000	1110	1.00	38369.9323	1110
2990	-1.064	0.595	0.903	0.000	1110	1.81	38370.7359	3330
2990	-1.071	0.642	0.952	0.000	1110	1.00	38370.9293	3330
2990	-1.055	0.594	0.964	0.000	1110	1.00	38377.9018	3330
2990	-1.078	0.604	0.961	0.000	1110	1.00	38378.9013	3330
2990	-1.077	0.618	0.948	0.000	1110	1.71	38380.7162	3330
2990	-1.042	0.551	0.904	0.000	1110	1.01	38380.9084	3330
2990	-1.094	0.603	0.971	0.000	1110	1.02	38388.9062	1110
2990	-1.108	0.605	0.926	0.000	1110	1.14	38388.9608	1110
2990	-1.110	0.595	0.921	0.000	1110	1.57	38392.6959	3330
2990	-1.063	0.602	0.933	0.000	1110	1.00	38392.8575	3330
2990	-1.123	0.624	0.908	0.000	1110	1.99	38396.6528	1110
2990	-1.071	0.639	1.012	0.000	1110	1.04	38396.7984	1110
2990	-1.063	0.577	0.973	0.000	1110	1.00	38396.8530	1110
2990	-1.081	0.591	0.952	0.000	1110	2.36	38397.6326	3330
2990	-1.098	0.630	0.936	0.000	1110	1.06	38397.9055	3330
2990	-1.119	0.591	0.956	0.000	1110	2.36	38398.6299	3330
2990	-1.067	0.597	0.941	0.000	1110	1.03	38398.7992	3330
2990	-1.092	0.584	0.954	0.000	1110	2.11	38399.6384	3330
2990	-1.082	0.603	0.943	0.000	1110	1.01	38400.8551	3330
2990	-1.067	0.582	0.908	0.000	1110	1.02	38403.8656	3330
2990	-1.097	0.593	0.981	0.000	1110	2.26	38404.0380	3330
2990	-1.088	0.615	0.980	0.000	1110	1.01	38404.8446	3330
2990	-1.100	0.561	0.942	0.000	1110	2.18	38405.0319	3330
2990	-1.110	0.603	0.980	0.000	1110	1.05	38408.8734	3330
2990	-1.033	0.554	0.940	0.000	1110	1.02	38410.8462	3330
2990	-1.037	0.593	0.903	0.000	1110	1.03	38411.8490	3330
2990	-1.049	0.568	0.940	0.000	1110	1.05	38414.8525	3330
2990	-1.059	0.544	0.965	0.000	1110	2.19	38419.9912	3330
2990	-1.066	0.617	0.942	0.000	1110	1.09	38420.8567	3330
2990	-1.106	0.608	0.979	0.000	1110	1.02	38425.8015	3330
2990	-1.105	0.627	0.956	0.000	1110	1.00	38430.7480	3330
2990	-1.090	0.592	0.938	0.000	1110	1.01	38431.7743	3330
2990	-1.126	0.587	0.967	0.000	1110	1.01	38483.6273	1110
2990	-1.094	0.614	0.945	0.000	1110	1.60	38483.7777	1110
2990	-1.171	0.615	1.038	0.000	1110	1.02	38493.6132	3330
2990	-1.132	0.612	0.951	0.000	1110	1.02	38494.6187	3330
2990	-0.986	0.655	0.968	0.000	1110	1.89	38494.7703	3330
2990	0.000	0.606	0.000	0.000	0100	1.08	38496.6465	1110
2990	-1.153	0.584	0.959	0.000	1110	1.14	38496.6655	1110
2990	-1.134	0.640	0.997	0.000	1110	1.01	38498.5931	3330
2990	-1.106	0.582	0.986	0.000	1110	1.03	38498.6125	3330
2990	-1.097	0.578	0.955	0.000	1110	1.32	38498.7019	3330
2990	-1.174	0.599	0.999	0.000	1110	1.01	38499.5901	1110
2990	-1.060	0.650	0.947	0.000	1110	1.58	38499.7316	1110
2990	-1.134	0.571	0.963	0.000	1110	1.03	38500.6035	1110
2990	-1.137	0.593	1.027	0.000	1110	1.39	38500.7069	1110
2990	-1.112	0.594	0.956	0.000	1110	1.03	38502.6043	1110
2990	-1.087	0.582	0.947	0.000	1110	1.18	38505.6536	1110
2990	-0.974	0.610	0.000	-0.068	1101	1.04	38508.5940	1101
2990	-1.053	0.728	0.000	-0.027	1101	1.14	38509.6308	1101
2990	-1.040	0.610	0.000	0.041	1101	1.01	38510.5636	1101
2990	-1.021	0.574	0.000	0.086	1101	1.01	38511.5504	1101
2990	-1.144	0.590	0.000	0.000	1101	1.16	38512.6290	1101
2990	-1.148	0.655	0.000	0.152	1101	1.26	38515.6434	1101
2990	-1.011	0.591	0.976	0.000	1110	1.25	38523.6195	3330
2990	-0.976	0.581	0.000	0.041	1101	1.22	38532.5891	1101
2990	-1.014	0.605	0.000	0.052	1101	1.45	38537.6136	1101
2990	-1.017	0.564	0.000	-0.008	1101	1.52	38537.6217	1101
2990	-0.976	0.581	0.000	0.075	1101	1.46	38538.6115	1101
2990	-1.056	0.546	0.000	0.011	1101	1.58	38539.6228	1101
2990	-0.973	0.578	0.000	0.119	1101	1.47	38542.6018	1101
2990	-1.080	0.613	0.000	0.111	1101	1.49	38545.5961	1101
2990	-1.082	0.630	0.000	0.053	1101	1.26	38669.9793	1101
2990	-1.058	0.586	0.910	0.000	1110	1.15	38680.9498	2220
2990	-1.094	0.631	0.000	0.066	1101	1.00	38693.0350	1101
2990	-1.005	0.528	0.000	0.023	1101	1.00	38694.0434	1101
2990	-1.106	0.645	0.974	0.000	1110	1.29	38697.8741	4440
2990	-1.091	0.637	0.949	0.000	1110	1.09	38697.9240	4440
2990	-1.262	0.820	0.000	-0.003	1101	1.01	38739.9372	1101
2990	-1.130	0.651	0.000	0.144	1101	2.33	38740.6949	1101
2990	-1.100	0.612	0.000	-0.030	1101	1.00	38744.8938	1101
2990	-1.103	0.640	0.000	0.129	1101	1.97	38771.6273	1101
2990	-1.104	0.556	0.984	0.000	1110	1.10	38799.7799	1110
2990	-1.098	0.550	0.925	0.000	1110	1.77	38799.8792	1110
2990	-1.018	0.584	1.052	0.000	1110	1.38	38800.5792	3340
2990	-1.051	0.552	0.881	0.000	1110	1.48	38800.6910	3340
2990	-1.122	0.553	0.928	0.000	1110	1.61	38800.8639	3340
2990	-1.061	0.600	0.924	0.000	1110	1.32	38801.5847	1120
2990	-1.014	0.569	0.893	0.000	1110	1.03	38801.7361	1120
2990	-1.108	0.608	0.913	0.000	1110	1.46	38809.5439	2220
2990	-1.081	0.633	0.969	0.000	1110	1.02	38809.6691	2220
2990	-1.086	0.615	0.000	0.077	1101	1.08	38810.7832	1101
2990	-1.062	0.611	0.000	0.081	1101	1.11	38811.7925	1101
2990	-1.153	0.615	0.000	0.072	1101	1.07	38812.6444	1101
2990	-1.114	0.605	0.000	0.072	1101	1.10	38815.7781	1101

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
2990	-1.089	0.614	0.000	0.144	1101	1.09	38818.7694	1101
2990	-1.065	0.599	0.000	0.104	1101	1.11	38820.7703	1101
2990	-1.112	0.621	0.944	0.000	1110	1.02	38829.6410	1120
2990	-1.131	0.637	0.971	0.000	1110	1.02	38847.6015	4440
2990	-1.185	0.736	0.000	0.067	1101	1.02	38865.5975	1101
2990	-1.041	0.571	0.000	0.065	1101	1.10	38865.6447	1101
2990	-0.961	0.647	0.000	0.028	1101	1.05	38866.6189	1101
2990	-1.090	0.531	0.000	0.189	1101	1.15	38866.6570	1101
2990	-1.127	0.671	0.000	0.001	1101	1.06	38867.6186	1101
2990	-1.090	0.600	0.000	0.181	1101	1.08	38868.6249	1101
2990	-1.129	0.588	0.000	0.111	1101	1.03	38869.5997	1101
2990	-1.049	0.510	0.000	0.049	1101	1.04	38874.5881	1101
2990	-1.148	0.642	0.000	0.084	1101	1.13	38875.6260	1101
2990	-1.163	0.636	0.000	0.129	1101	1.18	38877.6353	1101
2990	-1.099	0.654	0.000	0.191	1101	1.13	38888.5905	1101
2990	-1.323	0.661	0.000	0.229	1101	1.10	38889.5760	1101
2990	-1.092	0.631	0.000	0.083	1101	1.01	39056.0312	1101
2990	-1.065	0.635	0.000	0.116	1101	1.01	39057.0172	1101
2990	-1.061	0.616	0.000	0.085	1101	1.01	39058.0251	3303
2990	-1.096	0.623	0.000	0.123	1101	1.01	39059.0184	3303
2990	-1.081	0.635	0.000	0.065	1101	1.00	39060.0354	1101
2990	-1.086	0.625	0.000	0.088	1101	1.01	39061.0095	1101
2990	-1.111	0.632	0.000	-0.024	1101	2.16	39061.8227	3303
2990	-1.119	0.626	0.000	0.084	1101	1.09	39061.9543	3303
2990	-1.062	0.616	0.000	0.108	1101	1.06	39062.9654	3303
2990	-1.095	0.616	0.000	0.151	1101	1.04	39063.9740	3303
2990	-1.149	0.637	0.000	0.121	1101	1.01	39066.9936	1101
2990	-1.194	0.651	0.000	0.119	1101	1.02	39067.0495	1101
2990	-1.086	0.591	0.000	0.148	1101	1.02	39068.9716	1101
2990	-1.130	0.628	0.000	0.040	1101	1.01	39069.0307	1101
2990	-1.114	0.589	0.000	0.083	1101	1.00	39099.9335	1101
2990	0.000	0.623	0.000	0.023	0101	1.13	39100.0132	1101
2990	-1.141	0.585	0.000	0.056	1101	1.10	39130.9185	1101
2990	-1.140	0.640	0.000	0.072	1101	1.15	39134.9226	1101
2990	-1.125	0.633	0.000	-0.029	1101	1.13	39139.9040	1101
2993	0.767	1.033	1.578	0.000	1110	1.48	38769.7785	3340
2993	0.780	0.963	1.594	0.000	1110	1.51	38828.6646	3340
3003	1.327	0.944	1.535	0.000	1110	1.04	38343.9762	3330
3003	1.361	0.931	1.488	0.000	1110	1.03	38396.8409	1110
3003	1.279	0.976	1.526	0.000	1110	1.08	38397.9003	3330
3017	-0.475	1.147	1.720	0.000	1110	1.83	38769.7868	3340
3045	0.894	0.650	1.066	0.000	1110	1.84	38343.9964	3330
3045	0.894	0.576	1.001	0.000	1110	1.84	38400.8489	3330
3045	0.863	0.623	1.032	0.000	1110	1.86	38431.7359	3330
3046	2.308	0.668	1.063	0.000	1110	2.45	38769.7917	3340
3113	4.049	0.294	0.253	0.000	1110	1.53	38769.7958	3340
3113	4.259	0.182	0.159	0.000	1110	1.55	38770.8243	1120
3113	4.165	0.164	0.230	0.000	1110	1.58	38802.6771	3340
3145	1.470	0.809	1.294	0.000	1110	1.15	38344.0030	3330
3145	1.410	0.794	1.270	0.000	1110	1.17	38378.8846	3330
3145	1.340	0.842	1.287	0.000	1110	1.16	38388.8686	1110
3165	3.013	-0.162	0.000	0.000	1100	2.98	37708.7276	1110
3165	2.887	-0.138	-0.381	0.000	1110	3.14	37767.6030	3330
3165	2.954	-0.205	-0.534	0.000	1110	1.94	38769.8222	3340
3165	2.987	-0.101	-0.521	0.000	1110	1.98	38770.8340	1120
3165	2.898	-0.105	-0.465	0.000	1110	1.98	38800.7528	3340
3165	2.864	-0.098	-0.375	0.000	1110	2.00	38802.6819	3340
3185	1.910	0.230	0.341	0.000	1110	1.81	38340.0141	4440
3185	1.844	0.227	0.321	0.000	1110	1.82	38388.8748	1110
3185	1.887	0.191	0.278	0.000	1110	1.85	38400.8817	3330
3188	2.268	0.574	0.866	0.000	1110	1.22	38340.0194	4440
3188	2.279	0.535	0.906	0.000	1110	1.25	38377.8852	3330
3188	2.312	0.512	0.828	0.000	1110	1.24	38378.8913	3330
3207	1.931	0.181	-0.087	0.000	1110	2.49	38769.8264	3340
3207	1.926	0.238	-0.047	0.000	1110	2.65	38770.8542	1120
3207	2.079	0.048	-0.132	0.000	1110	2.55	38800.7583	3340
3207	1.944	0.102	-0.053	0.000	1110	2.56	38802.6868	3340
3211	2.538	0.631	0.955	0.000	1110	1.45	38377.8900	3330
3211	2.625	0.572	0.912	0.000	1110	1.42	38340.0240	4440
3211	2.538	0.574	0.887	0.000	1110	1.42	38388.8801	1110
3225	0.726	0.983	1.537	0.000	1110	1.93	38769.8306	3340
3225	0.736	0.977	1.532	0.000	1110	2.05	38770.8597	1120
3225	0.782	0.968	1.529	0.000	1110	1.98	38800.7625	3340
3225	0.739	0.944	1.519	0.000	1110	1.96	38802.6910	3340
3226	4.145	0.110	0.049	0.000	1110	2.15	38769.8340	3340
3226	4.011	0.267	0.238	0.000	1110	2.33	38770.8660	1120
3226	3.830	0.121	0.106	0.000	1110	2.22	38800.7674	3340
3226	4.025	0.177	0.222	0.000	1110	2.15	38802.6979	3340
3237	4.367	0.343	0.155	0.000	1110	1.80	38828.6896	3340

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
3243	1.760	0.743	1.097	0.000	1110	1.99	38769.8389	3340
3243	1.754	0.760	1.104	0.000	1110	2.17	38770.8715	1120
3243	1.785	0.663	1.123	0.000	1110	2.12	38800.7826	3340
3243	1.666	0.798	1.182	0.000	1110	1.97	38802.7035	3340
3248	-0.453	1.364	0.000	0.601	1101	1.20	39100.0248	1101
3249	0.148	0.936	1.459	0.000	1110	1.09	38344.0107	3330
3249	0.124	0.939	1.487	0.000	1110	1.10	38377.8952	3330
3249	0.134	0.899	1.425	0.000	1110	1.10	38378.8951	3330
3249	0.092	0.998	0.000	0.153	1101	1.35	38515.6509	1101
3249	0.179	0.854	0.000	0.157	1101	1.16	38739.9905	1101
3249	0.130	0.972	0.000	0.180	1101	1.13	38740.9751	1101
3249	0.141	0.976	0.000	0.111	1101	1.14	38742.9732	1101
3249	0.145	0.915	1.437	0.000	1110	1.14	38769.7375	3340
3249	0.115	0.881	1.431	0.000	1110	1.01	38769.8174	3340
3249	0.095	0.946	0.000	0.132	1101	1.12	38769.8876	1101
3249	0.099	0.964	1.479	0.000	1110	1.27	38769.9208	3340
3249	0.123	0.905	1.446	0.000	1110	1.02	38770.8194	1120
3249	0.197	0.914	0.000	0.097	1101	2.11	38773.6652	1101
3249	0.202	0.921	0.000	0.127	1101	1.14	38773.8884	1101
3249	0.201	0.969	0.000	0.118	1101	2.07	38778.6536	1101
3249	0.187	0.940	0.000	0.223	1101	1.14	38809.7888	1101
3249	-0.008	0.883	0.000	0.247	1101	1.15	38810.7908	1101
3249	0.167	0.924	0.000	0.124	1101	1.18	38811.8006	1101
3249	0.117	0.962	0.000	0.133	1101	1.17	38815.7869	1101
3249	0.098	0.942	0.000	0.139	1101	1.17	38818.7787	1101
3249	0.178	0.938	0.000	0.122	1101	1.19	38820.7786	1101
3249	0.100	0.904	0.000	0.179	1101	1.11	38869.6129	1101
3249	0.185	0.887	0.000	0.077	1101	1.11	38874.5948	1101
3249	0.268	0.936	0.000	0.185	1101	1.63	39132.9959	3303
3249	0.206	0.924	0.000	0.224	1101	1.24	39134.9330	1101
3249	0.216	0.981	0.000	0.127	1101	1.49	39134.9763	1101
3249	0.210	0.901	0.000	0.190	1101	1.18	39135.9153	1101
3249	0.224	0.914	0.000	0.142	1101	1.27	39139.9273	1101
3270	4.056	0.122	0.129	0.000	1110	1.84	38828.6937	3340
3275	0.633	0.975	1.508	0.000	1110	1.04	38370.9901	3330
3275	0.620	0.968	1.530	0.000	1110	1.02	38377.9099	3330
3275	0.606	0.960	1.532	0.000	1110	1.02	38378.9063	3330
3275	0.576	0.986	0.000	0.235	1101	1.02	38769.8621	1101
3275	0.477	1.034	0.000	0.177	1101	1.03	38771.8774	1101
3275	0.578	1.002	0.000	0.154	1101	1.10	38845.7246	1101
3282	1.667	0.877	1.330	0.000	1110	1.65	38769.8437	3340
3282	1.650	0.831	1.324	0.000	1110	1.78	38770.8757	1120
3282	1.643	0.848	1.344	0.000	1110	1.75	38800.7889	3340
3282	1.634	0.864	1.388	0.000	1110	1.63	38802.7090	3340
3294	5.170	-0.028	-0.217	0.000	1110	2.72	38828.6979	3340
3319	0.684	1.218	1.902	0.000	1110	1.06	38809.6585	2220
3319	0.624	1.190	1.929	0.000	1110	1.02	38809.6818	2220
3319	0.322	1.163	0.000	0.105	1101	1.27	38887.6337	1101
3319	0.603	1.095	0.000	0.321	1101	1.19	38888.6123	1101
3319	0.398	1.136	0.000	0.236	1101	1.25	38889.6236	1101
3323	1.412	0.561	0.823	0.000	1110	1.16	38370.9973	3330
3323	1.445	0.524	0.791	0.000	1110	1.14	38377.9162	3330
3323	1.468	0.532	0.812	0.000	1110	1.14	38388.8865	1110
3407	1.992	0.852	1.276	0.000	1110	2.79	38769.8486	3340
3407	2.066	0.829	1.259	0.000	1110	3.09	38770.8833	1120
3407	2.069	0.771	1.249	0.000	1110	3.01	38800.7951	3340
3407	1.968	0.788	1.259	0.000	1110	2.80	38802.7153	3340
3418	1.802	0.734	1.143	0.000	1110	1.20	38371.0051	3330
3418	1.792	0.757	1.131	0.000	1110	1.15	38377.9240	3330
3418	1.798	0.711	1.172	0.000	1110	1.15	38378.9122	3330
3426	3.640	0.138	0.147	0.000	1110	2.21	38828.7076	3340
3427	4.175	0.554	0.000	0.085	1101	1.04	39067.0196	1101
3427	4.295	0.477	0.000	-0.017	1101	1.07	39068.9945	1101
3428	4.122	0.657	0.000	0.172	1101	1.03	39067.0326	1101
3428	4.266	0.546	0.000	-1.017	1100	1.05	39069.0082	1101
3454	4.975	-0.155	0.000	0.040	0101	1.26	39132.9448	3303
3454	5.002	-0.170	0.000	0.030	0101	1.24	39135.9294	1101
3454	4.973	-0.150	0.000	0.010	0101	1.32	39138.9415	1101
3459	2.889	0.540	0.000	0.130	0101	1.45	39130.9512	1101
3459	2.834	0.535	0.000	0.160	0101	1.56	39132.9647	3303
3459	2.864	0.486	0.000	0.075	0101	1.65	39138.9590	1101
3461	1.521	0.672	1.034	0.000	1110	1.08	38371.0125	3330
3461	1.500	0.711	1.079	0.000	1110	1.03	38377.9310	3330
3461	1.484	0.662	1.088	0.000	1110	1.04	38378.9167	3330
3475	1.907	0.566	0.895	0.000	1110	1.05	38371.0190	3330
3475	1.876	0.593	0.969	0.000	1110	1.00	38377.9367	3330
3475	1.835	0.593	0.989	0.000	1110	1.01	38378.9226	3330

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
3482	1.561	0.511	0.823	0.000	1110	1.11	38377.9418	3330
3482	1.527	0.535	0.805	0.000	1110	1.11	38378.9284	3330
3482	1.463	0.541	0.813	0.000	1110	1.12	38388.8934	1110
3484	2.175	0.548	0.872	0.000	1110	1.44	38388.9000	1110
3484	2.201	0.613	0.921	0.000	1110	1.43	38391.8987	3330
3518	1.087	0.828	1.241	0.000	1110	1.46	38769.8528	3340
3518	1.021	0.908	1.264	0.000	1110	1.56	38770.8889	1120
3518	1.126	0.778	1.244	0.000	1110	1.53	38800.8007	3340
3518	1.112	0.761	1.231	0.000	1110	1.48	38802.7201	3340
3541	0.199	1.905	2.612	0.000	1110	1.04	38809.6870	2220
3547	0.858	0.671	0.969	0.000	1110	1.12	38378.9345	3330
3547	0.858	0.614	0.938	0.000	1110	1.12	38391.9295	3330
3547	0.831	0.616	1.001	0.000	1110	1.12	38400.8922	3330
3547	1.082	0.505	0.000	0.055	1101	1.14	38741.9842	1101
3547	0.946	0.625	0.000	0.049	1101	1.15	38742.9874	1101
3547	0.813	0.678	0.000	0.081	1101	1.12	38769.8683	1101
3547	0.675	0.651	0.000	0.108	1101	1.12	38771.8836	1101
3569	2.642	0.064	0.174	0.000	1110	1.07	37711.7953	1110
3569	2.707	0.099	0.142	0.000	1110	1.11	37779.6375	1110
3569	2.787	-0.041	0.083	0.000	1110	1.18	37780.6661	1110
3576	0.283	1.002	1.690	0.000	1110	1.24	38379.9109	3330
3576	0.291	1.014	1.655	0.000	1110	1.23	38385.9409	1110
3576	0.242	1.033	1.695	0.000	1110	1.25	38391.9599	3330
3576	0.179	1.174	0.000	0.281	1101	1.26	38725.9441	1101
3576	0.391	0.958	0.000	0.209	1101	1.24	38741.9937	1101
3576	0.452	0.998	0.000	0.154	1101	1.30	38743.0432	1101
3576	0.239	1.051	0.000	0.194	1101	1.23	38769.8986	1101
3576	0.290	1.038	0.000	0.208	1101	1.24	38811.8100	1101
3614	1.214	0.700	1.057	0.000	1110	2.45	38769.8569	3340
3614	1.174	0.728	1.092	0.000	1110	2.64	38770.8944	1120
3614	1.224	0.683	1.067	0.000	1110	2.58	38800.8049	3340
3614	1.147	0.688	1.132	0.000	1110	2.52	38802.7257	3340
3628	0.849	0.988	1.565	0.000	1110	1.41	38769.8611	3340
3628	0.832	0.971	1.598	0.000	1110	1.47	38800.8090	3340
3628	0.831	0.966	1.564	0.000	1110	1.43	38802.7312	3340
3634	-1.552	1.029	1.557	0.000	1110	2.17	38769.8722	3340
3634	-1.563	0.997	1.573	0.000	1110	2.29	38800.8132	3340
3634	-1.605	0.991	1.599	0.000	1110	2.18	38802.7354	3340
3654	4.314	0.192	0.243	0.000	1110	2.31	38828.7201	3340
3682	2.449	0.677	0.972	0.000	1110	1.88	38769.8771	3340
3682	2.441	0.646	1.003	0.000	1110	1.97	38800.8181	3340
3682	2.355	0.696	1.084	0.000	1110	1.87	38802.7493	3340
3684	3.575	0.295	0.365	0.000	1110	1.85	38828.7285	3340
3705	-0.603	1.002	1.639	0.000	1110	1.06	37779.6497	1110
3705	-0.593	0.970	1.564	0.000	1110	1.02	38368.9589	3330
3705	-0.563	0.983	1.465	0.000	1110	1.02	38379.9202	3330
3705	-0.621	0.971	1.604	0.000	1110	1.01	38388.9151	1110
3705	-0.515	0.996	0.000	0.080	1101	1.02	38743.0067	1101
3705	-0.714	1.048	0.000	0.106	1101	1.01	38769.8740	1101
3705	-0.553	0.986	0.000	0.148	1101	1.05	38811.8347	1101
3705	-0.677	1.020	0.000	0.189	1101	1.06	38818.8222	1101
3718	0.554	1.068	1.709	0.000	1110	1.43	38769.8826	3340
3718	0.514	1.051	1.686	0.000	1110	1.49	38800.8229	3340
3718	0.506	1.056	1.716	0.000	1110	1.42	38802.7549	3340
3731	1.677	0.721	1.207	0.000	1110	1.02	38368.9689	3330
3731	1.685	0.769	1.148	0.000	1110	1.03	38379.9251	3330
3731	1.679	0.717	1.207	0.000	1110	1.01	38388.9258	1110
3733	2.628	0.589	0.878	0.000	1110	1.51	38769.8868	3340
3733	2.630	0.532	0.870	0.000	1110	1.58	38800.8278	3340
3748	-1.210	0.850	1.374	0.000	1110	1.33	38368.9763	3330
3748	-1.173	0.810	1.268	0.000	1110	1.36	38379.9308	3330
3748	-1.243	0.867	1.360	0.000	1110	1.32	38388.9325	1110
3748	-1.126	0.868	0.000	0.061	1101	1.44	38743.0345	1101
3748	-1.151	0.885	0.000	0.387	1101	1.33	38769.8799	1101
3748	-1.179	0.870	0.000	0.136	1101	1.36	38811.8191	1101
3748	-1.262	0.886	0.000	0.106	1101	1.40	38818.8143	1101
3757	2.857	0.150	0.241	0.000	1110	1.17	38368.9839	3330
3757	2.792	0.198	0.305	0.000	1110	1.18	38391.9700	3330
3757	2.800	0.226	0.354	0.000	1110	1.16	38396.9153	1110
3765	1.401	0.941	1.350	0.000	1110	1.48	38769.8910	3340
3765	1.326	0.821	1.342	0.000	1110	1.87	38800.8333	3340
3765	1.275	0.857	1.361	0.000	1110	1.73	38802.7806	3340
3771	2.727	0.498	0.752	0.000	1110	1.26	38383.9556	3330
3771	2.620	0.510	0.795	0.000	1110	1.28	38391.9812	3330
3771	2.694	0.427	0.765	0.000	1110	1.26	38396.9201	1110

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
3773	0.608	0.950	1.522	0.000	1110	1.01	38368.9924	3330
3773	0.629	0.928	1.528	0.000	1110	1.02	38378.9548	3330
3773	0.635	0.934	1.470	0.000	1110	1.02	38379.9546	3330
3773	0.666	0.987	0.000	0.058	1101	1.02	38742.9975	1101
3773	0.688	0.980	0.000	0.132	1101	1.06	38744.0253	1101
3773	0.590	1.022	0.000	0.226	1101	1.02	38751.9623	1101
3773	0.574	1.015	0.000	0.222	1101	1.01	38769.9045	1101
3775	1.954	0.277	0.496	0.000	1110	1.06	38369.0000	3330
3775	2.019	0.261	0.420	0.000	1110	1.06	38378.9593	3330
3775	2.087	0.242	0.375	0.000	1110	1.06	38379.9606	3330
3786	2.759	0.225	0.291	0.000	1110	1.99	38828.7319	3340
3834	1.488	0.866	1.379	0.000	1110	1.13	38396.9253	1110
3834	1.496	0.864	-0.252	0.000	1100	1.13	38400.9083	3330
3834	1.526	0.872	1.375	0.000	1110	1.14	38404.9248	3330
3836	3.994	0.082	0.093	0.000	1110	2.74	38828.7375	3340
3845	0.863	0.811	1.275	0.000	1110	1.18	38369.0179	3330
3845	0.858	0.814	1.305	0.000	1110	1.17	38378.9672	3330
3845	0.924	0.760	1.256	0.000	1110	1.17	38396.9293	1110
3845	0.906	0.855	0.000	0.114	1101	1.17	38743.9835	1101
3845	0.917	0.847	0.000	0.193	1101	1.18	38751.9711	1101
3845	0.884	0.869	0.000	0.152	1101	1.17	38769.9142	1101
3845	0.923	0.850	0.000	0.160	1101	1.20	38811.8266	1101
3852	2.418	0.268	0.422	0.000	1110	1.09	38369.0249	3330
3852	2.439	0.268	0.444	0.000	1110	1.08	38378.9722	3330
3852	2.424	0.227	0.403	0.000	1110	1.08	38396.9332	1110
3871	3.270	0.419	0.657	0.000	1110	1.48	38828.7417	3340
3873	1.163	0.457	0.737	0.000	1110	1.01	37767.6227	3330
3873	1.196	0.442	0.761	0.000	1110	1.05	37779.6564	1110
3873	1.120	0.494	0.797	0.000	1110	1.02	38369.0330	3330
3873	1.135	0.500	0.807	0.000	1110	1.01	38378.9768	3330
3881	3.765	0.321	0.507	0.000	1110	1.04	38390.9803	3330
3881	3.675	0.351	0.578	0.000	1110	1.04	38403.9378	3330
3882	-2.151	1.471	0.000	0.734	1101	1.08	39100.0335	1101
3888	2.971	0.210	0.265	0.000	1110	1.13	38369.0432	3330
3888	3.058	0.233	0.252	0.000	1110	1.12	38378.9816	3330
3888	2.968	0.259	0.359	0.000	1110	1.12	38388.9425	1110
3903	2.016	0.536	0.904	0.000	1110	1.48	38380.9963	3330
3903	2.002	0.570	0.868	0.000	1110	1.47	38396.9493	1110
3903	2.039	0.524	0.845	0.000	1110	1.49	38397.9105	3330
3905	1.242	0.727	1.192	0.000	1110	1.02	38381.0056	3330
3905	1.211	0.703	1.138	0.000	1110	1.01	38396.9542	1110
3905	1.215	0.677	1.133	0.000	1110	1.01	38397.9146	3330
3912	1.999	0.705	1.075	0.000	1110	2.44	38828.7472	3340
3950	0.500	0.993	1.697	0.000	1110	1.11	38381.0139	3330
3950	0.484	1.014	1.688	0.000	1110	1.11	38396.9646	1110
3950	0.493	1.016	1.639	0.000	1110	1.10	38397.9194	3330
3950	0.474	1.061	0.000	0.123	1101	1.10	38743.9994	1101
3950	0.516	1.043	0.000	0.170	1101	1.11	38752.9922	1101
3950	0.498	1.077	0.000	0.188	1101	1.10	38769.9253	1101
3950	0.591	1.027	0.000	0.216	1101	1.14	38810.8546	1101
3975	3.422	0.042	0.019	0.000	1110	1.06	38381.0232	3330
3975	3.440	0.012	-0.000	0.000	1110	1.05	38396.9778	1110
3975	3.425	-0.008	-0.032	0.000	1110	1.04	38397.9243	3330
3980	1.028	0.876	1.453	0.000	1110	1.11	38381.0310	3330
3980	1.052	0.861	1.409	0.000	1110	1.09	38396.9687	1110
3980	1.054	0.855	1.431	0.000	1110	1.08	38397.9294	3330
3982	1.659	-0.056	-0.211	0.000	1110	1.06	37708.8080	1110
3982	1.640	-0.083	-0.199	0.000	1110	1.06	37711.8123	1110
3982	1.612	-0.049	-0.150	0.000	1110	1.06	37713.7939	1110
3982	1.605	-0.080	0.000	0.000	1100	1.10	37721.8241	1110
3982	1.667	-0.080	-0.209	0.000	1110	1.06	37767.6325	3330
3982	1.627	-0.093	-0.169	0.000	1110	1.96	37767.8223	3330
3982	1.646	-0.059	-0.167	0.000	1110	1.06	37768.6262	3330
3982	1.629	-0.099	-0.152	0.000	1110	1.27	37768.7485	3330
3982	1.625	-0.084	-0.155	0.000	1110	1.05	37769.6492	1110
3982	1.603	-0.066	-0.149	0.000	1110	1.05	37777.6256	3330
3982	1.607	-0.083	-0.160	0.000	1110	1.05	37778.6262	1110
3982	1.639	-0.026	-0.147	0.000	1110	1.41	37778.7444	1110
3982	1.638	-0.126	-0.168	0.000	1110	1.05	37779.6203	1110
3982	1.661	-0.072	-0.197	0.000	1110	1.65	37779.7681	1110
3982	1.644	-0.111	-0.182	0.000	1110	1.06	37780.6392	1110
3982	1.534	-0.061	-0.139	0.000	1110	1.09	37799.6097	1110
3982	1.634	-0.080	-0.167	0.000	1110	1.33	37799.6759	1110
3982	1.689	-0.088	-0.206	0.000	1110	1.71	37799.7189	1110
3982	1.539	-0.079	-0.134	0.000	1110	1.08	37801.5963	3330
3982	1.631	-0.040	-0.149	0.000	1110	1.24	37801.6536	3330
3982	1.658	-0.040	-0.172	0.000	1110	1.45	37801.6873	3330
3982	1.583	-0.075	-0.158	0.000	1110	1.09	37802.5969	1110

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
3982	1.599	-0.068	-0.196	0.000	1110	1.13	37802.6182	1110
3982	1.533	-0.050	-0.125	0.000	1110	1.12	37809.5948	1110
3982	1.622	-0.074	-0.174	0.000	1110	1.50	37830.6145	1110
3982	1.531	-0.077	-0.138	0.000	1110	1.46	37831.6071	1110
3982	1.574	-0.094	-0.184	0.000	1110	1.59	37837.6042	3330
3982	1.638	-0.105	-0.162	0.000	1110	2.14	38365.8530	3330
3982	1.602	-0.062	-0.169	0.000	1110	1.08	38369.0522	3330
3982	1.609	-0.030	-0.166	0.000	1110	1.07	38371.0261	3330
3982	1.628	-0.048	-0.171	0.000	1110	1.12	38377.9478	3330
3982	1.630	-0.053	-0.178	0.000	1110	2.42	38378.8062	3330
3982	1.588	-0.048	-0.153	0.000	1110	1.12	38378.9419	3330
3982	1.702	-0.117	-0.185	0.000	1110	1.07	38378.9875	3330
3982	1.648	-0.063	-0.226	0.000	1110	1.07	38379.0173	3330
3982	1.737	-0.044	-0.180	0.000	1110	1.08	38379.9656	3330
3982	1.559	0.029	-0.110	0.000	1110	1.11	38381.0391	3330
3982	1.659	-0.044	-0.165	0.000	1110	1.07	38381.9944	3330
3982	1.668	-0.064	-0.168	0.000	1110	1.14	38382.0517	3330
3982	1.657	-0.070	-0.188	0.000	1110	1.10	38383.9419	3330
3982	1.596	-0.061	-0.165	0.000	1110	1.09	38384.9419	1110
3982	1.618	-0.083	-0.171	0.000	1110	1.07	38388.9715	1110
3982	1.603	-0.064	-0.152	0.000	1110	1.07	38390.9618	3330
3982	1.659	-0.091	-0.173	0.000	1110	1.13	38391.0228	3330
3982	1.572	-0.048	-0.187	0.000	1110	1.07	38391.9510	3330
3982	1.610	-0.050	-0.164	0.000	1110	1.11	38392.0115	3330
3982	1.643	-0.077	-0.160	0.000	1110	2.22	38392.7758	3330
3982	1.579	-0.043	-0.149	0.000	1110	1.07	38396.9426	1110
3982	1.635	-0.044	-0.164	0.000	1110	1.09	38396.9826	1110
3982	1.652	-0.103	-0.177	0.000	1110	2.15	38397.7650	3330
3982	1.626	-0.090	-0.178	0.000	1110	1.07	38397.9467	3330
3982	1.659	-0.058	-0.176	0.000	1110	2.19	38398.7608	3330
3982	1.581	-0.037	-0.160	0.000	1110	1.85	38400.7739	3330
3982	1.590	-0.018	-0.124	0.000	1110	1.07	38403.9263	3330
3982	1.594	-0.063	-0.121	0.000	1110	1.14	38403.9920	3330
3982	1.584	-0.046	-0.145	0.000	1110	1.07	38404.9159	3330
3982	1.630	-0.082	-0.180	0.000	1110	1.10	38406.8801	3330
3982	1.615	-0.061	-0.161	0.000	1110	1.07	38408.9250	3330
3982	1.590	-0.051	-0.143	0.000	1110	1.13	38408.9743	3330
3982	1.621	-0.041	-0.156	0.000	1110	1.07	38411.8937	3330
3982	1.598	-0.047	-0.170	0.000	1110	1.07	38414.9061	3330
3982	1.655	-0.050	-0.208	0.000	1110	1.07	38415.9131	3330
3982	1.620	-0.033	-0.192	0.000	1110	1.08	38419.8989	3330
3982	1.601	-0.062	-0.144	0.000	1110	2.25	38420.6981	3330
3982	1.573	-0.067	-0.158	0.000	1110	1.09	38424.9092	3330
3982	1.525	-0.028	-0.115	0.000	1110	1.12	38425.9228	3330
3982	1.563	-0.029	-0.150	0.000	1110	1.08	38427.8375	1110
3982	1.639	-0.049	-0.218	0.000	1110	1.98	38430.6839	3330
3982	1.578	-0.053	-0.159	0.000	1110	1.15	38476.7959	1110
3982	1.615	-0.023	-0.148	0.000	1110	1.24	38480.8093	1110
3982	1.602	-0.022	-0.159	0.000	1110	1.12	38481.7694	1110
3982	1.612	-0.091	-0.178	0.000	1110	1.08	38483.6832	1110
3982	1.648	-0.079	-0.200	0.000	1110	1.07	38496.6835	1110
3982	1.626	-0.106	-0.151	0.000	1110	1.15	38498.6052	3330
3982	1.589	-0.013	-0.157	0.000	1110	1.08	38498.6428	3330
3982	1.645	-0.103	-0.179	0.000	1110	1.08	38498.6957	3330
3982	1.589	-0.050	-0.144	0.000	1110	1.36	38498.7838	3330
3982	1.619	-0.095	-0.183	0.000	1110	1.13	38499.6083	1110
3982	1.583	-0.017	-0.104	0.000	1110	1.07	38499.6712	1110
3982	1.592	-0.093	-0.153	0.000	1110	1.25	38499.7601	1110
3982	0.000	0.000	-0.181	0.000	0010	1.08	38500.6409	1110
3982	1.630	-0.008	-0.152	0.000	1110	1.07	38500.6736	1110
3982	1.582	-0.030	-0.132	0.000	1110	1.57	38500.8046	1110
3982	1.558	-0.074	-0.187	0.000	1110	1.11	38501.7100	1110
3982	1.673	-0.066	-0.171	0.000	1110	1.07	38505.6290	1110
3982	1.577	-0.155	0.000	0.157	1101	1.08	38508.6194	1101
3982	1.512	-0.056	0.000	0.023	1101	1.13	38509.6949	1101
3982	1.618	-0.039	0.000	-0.074	1101	1.13	38510.5784	1101
3982	1.932	-0.102	0.000	0.174	1101	1.21	38510.7191	1101
3982	1.706	-0.106	0.000	-0.011	1101	1.15	38511.5683	1101
3982	0.000	-0.103	0.000	0.000	0100	1.08	38511.6066	1101
3982	1.650	-0.022	0.000	0.062	1101	1.07	38511.6421	1101
3982	1.482	-0.066	0.000	-0.023	1101	1.28	38511.7326	1101
3982	1.906	-0.104	0.000	0.140	1101	1.08	38512.6543	1101
3982	1.584	-0.055	0.000	0.015	1101	1.19	38513.7064	1101
3982	1.620	-0.070	0.000	0.078	1101	1.09	38515.6596	1101
3982	1.560	-0.049	0.000	0.055	1101	1.10	38517.6623	1101
3982	1.625	-0.036	-0.171	0.000	1110	1.08	38521.6310	3330
3982	1.590	-0.061	-0.082	0.000	1110	1.20	38521.6868	3330
3982	1.613	-0.009	-0.134	0.000	1110	1.07	38523.6144	3330
3982	1.626	-0.113	0.000	0.091	1101	1.07	38532.5979	1101
3982	1.617	-0.029	0.000	0.023	1101	1.16	38533.6419	1101
3982	1.716	-0.095	0.000	0.090	1101	1.28	38534.6710	1101
3982	1.744	-0.198	0.000	0.102	1101	1.09	38537.6013	1101
3982	1.705	-0.117	0.000	-0.022	1101	1.10	38538.6012	1101
3982	1.641	-0.037	0.000	-0.031	1101	1.13	38539.6126	1101
3982	1.621	-0.109	0.000	0.044	1101	1.19	38540.6334	1101
3982	1.691	-0.096	0.000	0.025	1101	1.10	38542.5925	1101
3982	1.768	-0.146	0.000	0.079	1101	1.29	38544.6445	1101
3982	1.580	-0.060	0.000	0.058	1101	1.10	38545.5799	1101
3982	1.627	-0.156	0.000	0.030	1101	1.12	38546.5894	1101
3982	1.687	-0.114	0.000	0.031	1101	1.14	38547.5973	1101
3982	1.709	-0.039	0.000	0.000	1100	2.00	38549.7022	1101
3982	1.608	-0.066	0.000	-0.064	1101	1.07	38741.0220	1101
3982	1.675	-0.059	0.000	-0.115	1101	1.07	38743.0155	1101
3982	1.586	-0.037	0.000	-0.049	1101	1.07	38744.0091	1101
3982	1.633	-0.099	0.000	0.075	1101	1.07	38751.9786	1101
3982	1.630	-0.095	0.000	0.090	1101	1.07	38752.9599	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
3982	1.663	-0.095	0.000	-0.014	1101	1.07	38769.9198	1101
3982	1.535	-0.069	0.000	-0.064	1101	1.08	38771.9464	1101
3982	1.647	-0.118	0.000	0.005	1101	1.20	38773.9968	1101
3982	1.646	-0.052	0.000	0.004	1101	1.08	38783.8569	1101
3982	1.574	-0.061	0.000	0.021	1101	1.07	38784.8802	1101
3982	1.689	-0.055	-0.174	0.000	1110	1.02	38799.7875	1110
3982	1.617	-0.060	-0.156	0.000	1110	1.04	38799.8486	1110
3982	1.567	-0.064	-0.180	0.000	1110	1.12	38799.8840	1110
3982	1.624	-0.054	-0.168	0.000	1110	4.34	38800.5854	3340
3982	1.668	-0.124	-0.291	0.000	1110	1.30	38800.6951	3340
3982	1.556	-0.015	-0.177	0.000	1110	1.08	38800.8687	3340
3982	1.561	-0.088	-0.237	0.000	1110	1.20	38800.9028	3340
3982	1.629	-0.054	-0.199	0.000	1110	1.01	38802.8042	3340
3982	1.674	-0.081	-0.198	0.000	1110	1.08	38802.8646	3340
3982	1.619	-0.024	-0.204	0.000	1110	1.26	38809.6764	2220
3982	1.669	-0.068	0.000	0.068	1101	1.09	38809.8558	1101
3982	1.660	-0.101	0.000	0.028	1101	1.07	38810.8337	1101
3982	1.640	-0.048	0.000	-0.000	1101	1.08	38811.8432	1101
3982	1.621	-0.037	0.000	0.020	1101	1.07	38815.8192	1101
3982	1.576	-0.058	0.000	0.030	1101	1.07	38818.7876	1101
3982	1.605	-0.013	0.000	-0.062	1101	1.07	38820.7861	1101
3982	1.588	-0.078	0.000	0.129	1101	1.08	38822.8042	1101
3982	1.622	-0.067	0.000	-0.022	1101	1.07	38824.7722	1101
3982	1.660	-0.034	0.000	-0.054	1101	1.08	38825.7479	1101
3982	1.621	-0.080	0.000	-0.001	1101	1.07	38826.7497	1101
3982	1.625	-0.055	0.000	0.018	1101	1.07	38833.7458	1101
3982	1.599	-0.041	0.000	0.071	1101	1.08	38833.7807	1101
3982	1.648	-0.069	0.000	-0.052	1101	1.07	38843.7047	1101
3982	1.648	-0.026	0.000	0.075	1101	1.08	38845.7452	1101
3982	1.606	-0.050	0.000	0.039	1101	1.28	38845.8191	1101
3982	1.647	-0.095	0.000	-0.094	1101	1.23	38864.7549	1101
3982	1.565	-0.084	0.000	0.062	1101	1.07	38865.6546	1101
3982	1.616	-0.011	0.000	0.015	1101	1.27	38865.7618	1101
3982	1.590	-0.005	0.000	-0.064	1101	1.08	38866.6388	1101
3982	1.536	-0.074	0.000	-0.002	1101	1.11	38866.7090	1101
3982	1.563	-0.088	0.000	0.032	1101	1.32	38866.7681	1101
3982	1.677	-0.151	0.000	0.079	1101	1.08	38867.6270	1101
3982	1.618	-0.171	0.000	0.112	1101	1.11	38869.6062	1101
3982	1.684	-0.074	0.000	0.044	1101	1.09	38874.6012	1101
3982	1.467	-0.066	0.000	-0.095	1101	1.07	38875.6339	1101
3982	1.540	-0.124	0.000	0.062	1101	1.07	38877.6447	1101
3982	1.451	-0.192	0.000	0.140	1101	1.07	38887.6069	1101
3982	1.741	-0.285	0.000	0.134	1101	1.08	38888.6243	1101
3982	1.395	-0.071	0.000	0.088	1101	1.07	38889.5905	1101
3982	1.495	-0.056	0.000	-0.012	1101	1.10	38903.6057	1101
3982	1.589	-0.075	0.000	-0.116	1101	1.17	38904.6308	1101
3982	1.655	-0.095	0.000	-0.203	1101	1.15	38906.6173	1101
3982	1.569	-0.020	0.000	0.009	1101	1.25	38906.6464	1101
3982	1.422	-0.036	0.000	-0.097	1101	1.18	38908.6218	1101
3982	1.348	-0.062	0.000	-0.069	1101	1.16	38911.6060	1101
3982	1.602	0.027	0.000	-0.045	1101	1.20	38912.6174	1101
3982	1.571	-0.055	0.000	-0.011	1101	1.20	38913.6155	1101
3982	1.743	-0.073	0.000	0.048	1101	1.26	38916.6197	1101
3982	1.601	-0.028	0.000	0.017	1101	1.09	38918.5548	1101
3982	1.505	-0.092	0.000	-0.223	1101	1.35	38918.6315	1101
3982	1.607	0.064	0.000	-0.029	1101	1.14	38921.5723	1101
3982	1.659	-0.161	0.000	0.091	1101	2.30	39061.9403	3303
3982	1.577	-0.049	0.000	-0.038	1101	1.09	39100.0548	1101
3982	1.755	-0.118	0.000	0.093	1101	1.07	39130.9293	1101
3982	1.680	-0.140	0.000	-0.014	1101	1.08	39130.9641	1101
3982	1.664	-0.079	0.000	0.022	1101	1.10	39132.9751	3303
3982	1.673	-0.091	0.000	0.081	1101	1.07	39134.9464	1101
3982	1.690	-0.111	0.000	0.059	1101	1.09	39135.9575	1101
3982	1.630	-0.068	0.000	0.019	1101	1.12	39135.9765	1101
3982	1.698	-0.126	0.000	0.004	1101	1.07	39138.9263	1101
3982	1.654	-0.045	0.000	0.012	1101	1.14	39138.9797	1101
3982	1.705	-0.118	0.000	0.035	1101	1.08	39139.9431	1101
3994	1.482	0.533	0.904	0.000	1110	1.42	38396.9733	1110
3994	1.381	0.617	0.993	0.000	1110	1.41	38397.9338	3330
3994	1.388	0.529	0.000	0.000	1100	1.41	38400.9206	3330
4023	3.842	-0.043	-0.112	0.000	1110	2.05	38769.8958	3340
4023	3.720	0.094	0.008	0.000	1110	2.09	38800.8375	3340
4023	3.655	0.053	0.021	0.000	1110	2.08	38802.7847	3340
4031	2.655	0.189	0.297	0.000	1110	1.01	38371.0348	3330
4031	2.650	0.137	0.291	0.000	1110	1.01	38378.9946	3330
4031	2.560	0.227	0.375	0.000	1110	1.01	38397.9375	3330
4033	3.455	0.023	-0.017	0.000	1110	1.02	38378.9994	3330
4033	3.411	-0.014	-0.013	0.000	1110	1.02	38397.9417	3330
4033	3.265	0.074	0.000	0.000	1100	1.02	38400.9247	3330
4039	4.433	0.425	0.000	0.000	1100	1.41	38557.6531	1101
4057	-0.669	0.746	1.184	0.000	1110	1.04	37711.8531	1110
4057	-0.671	0.745	1.182	0.000	1110	1.02	37767.6706	3330
4057	-0.706	0.782	1.233	0.000	1110	1.02	37768.6509	3330
4057	-0.764	0.818	1.263	0.000	1110	1.03	37769.6785	1110
4057	-0.729	0.780	1.162	0.000	1110	1.02	37777.6459	3330
4057	-0.689	0.745	1.211	0.000	1110	1.25	37799.6812	1110
4057	-0.789	0.709	1.192	0.000	1110	1.07	37809.5998	1110
4057	-0.607	0.742	1.148	0.000	1110	1.03	38371.0421	3330
4057	-0.685	0.730	1.145	0.000	1110	1.02	38379.0044	3330
4057	-0.687	0.702	0.000	0.000	1100	1.03	38400.9298	3330

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
4057	-0.718	0.759	0.000	0.170	1101	1.05	38508.6872	1101
4057	-0.714	0.737	0.000	0.032	1101	1.12	38509.7201	1101
4057	-0.595	0.735	0.000	0.152	1101	1.03	38511.6596	1101
4057	-0.727	0.793	0.000	0.098	1101	1.03	38512.6615	1101
4057	0.000	0.742	0.000	0.120	0101	1.09	38513.6993	1101
4057	-0.579	0.794	0.000	0.076	1101	1.08	38517.6830	1101
4057	-0.719	0.800	0.000	-0.004	1101	1.02	38741.0131	1101
4057	-0.667	0.756	0.000	0.102	1101	1.03	38744.0173	1101
4057	-0.687	0.774	0.000	0.131	1101	1.02	38751.9872	1101
4057	-0.671	0.771	0.000	0.119	1101	1.06	38752.0322	1101
4057	-0.694	0.773	0.000	0.091	1101	1.04	38753.0072	1101
4057	-0.663	0.754	0.000	0.139	1101	1.03	38769.9470	1101
4057	-0.643	0.774	0.000	0.123	1101	1.04	38783.8659	1101
4057	-0.710	0.801	0.000	0.143	1101	1.03	38784.9069	1101
4057	-0.651	0.766	0.000	0.129	1101	1.03	38809.8470	1101
4057	-0.596	0.746	0.000	0.060	1101	1.32	38809.9460	1101
4057	-0.655	0.764	0.000	0.116	1101	1.03	38810.8438	1101
4057	-0.690	0.784	0.000	0.081	1101	1.04	38811.8527	1101
4057	-0.700	0.794	0.000	0.062	1101	1.12	38815.8833	1101
4057	-0.738	0.782	0.000	0.129	1101	1.02	38818.7964	1101
4057	-0.704	0.653	0.000	0.058	1101	1.03	38820.8062	1101
4057	-0.693	0.778	0.000	0.099	1101	1.04	38822.7555	1101
4057	-0.732	0.824	0.000	0.112	1101	1.02	38823.7905	1101
4057	-0.643	0.688	0.000	0.177	1101	1.02	38824.7806	1101
4057	-0.692	0.818	0.000	0.131	1101	1.05	38826.7419	1101
4057	-0.737	0.782	0.000	0.153	1101	1.03	38833.7718	1101
4057	-0.588	0.754	0.000	0.114	1101	1.03	38845.7503	1101
4057	-0.767	0.818	0.000	0.140	1101	1.20	38845.8242	1101
4057	-0.730	0.777	0.000	0.085	1101	1.05	38869.7021	1101
4057	-0.607	0.719	0.000	0.113	1101	1.05	38874.6084	1101
4057	-0.784	0.612	0.000	0.143	1101	1.02	38875.6510	1101
4057	-0.670	0.796	0.000	0.090	1101	1.04	39130.9726	1101
4057	-0.647	0.800	0.000	0.065	1101	1.03	39132.9274	3303
4057	-0.666	0.768	0.000	0.035	1101	1.06	39132.9843	3303
4057	-0.661	0.776	0.000	0.110	1101	1.03	39134.9576	1101
4057	-0.684	0.757	0.000	0.065	1101	1.04	39135.9665	1101
4057	-0.693	0.745	0.000	0.095	1101	1.06	39138.9696	1101
4069	-0.815	0.966	1.573	0.000	1110	1.04	37767.6979	3330
4069	-0.890	0.997	1.611	0.000	1110	1.07	37777.6935	3330
4069	-0.876	1.013	1.608	0.000	1110	1.06	37802.6240	1110
4069	-0.965	0.998	1.636	0.000	1110	1.07	37809.6056	1110
4069	-0.960	0.881	0.000	0.037	1101	1.06	38510.7059	1101
4069	-0.787	1.057	0.000	0.178	1101	1.06	38511.7031	1101
4069	-0.719	0.845	0.000	0.233	0101	1.10	38517.7056	1101
4080	2.500	0.587	0.952	0.000	1110	2.02	38769.9028	3340
4080	2.349	0.633	1.037	0.000	1110	2.06	38800.8431	3340
4080	2.353	0.627	0.992	0.000	1110	2.05	38802.7889	3340
4092	1.742	0.937	1.565	0.000	1110	1.31	38403.9699	3330
4092	1.812	0.959	1.610	0.000	1110	1.29	38404.9407	3330
4092	1.767	0.941	1.523	0.000	1110	1.32	38406.9635	3330
4094	0.376	0.867	1.429	0.000	1110	1.54	38403.9589	3330
4094	0.401	0.894	1.468	0.000	1110	1.53	38404.9488	3330
4094	0.340	0.927	1.444	0.000	1110	1.52	38408.9327	3330
4094	0.365	0.933	0.000	0.171	1101	1.54	38743.9914	1101
4094	0.352	0.979	0.000	0.061	1101	1.53	38752.9996	1101
4094	0.428	0.943	0.000	0.116	1101	1.52	38769.9406	1101
4094	0.384	0.916	0.000	0.166	1101	1.53	38784.8891	1101
4100	2.236	0.522	0.837	0.000	1110	1.01	38371.0508	3330
4100	2.145	0.561	0.839	0.000	1110	1.00	38379.0090	3330
4100	2.092	0.591	0.913	0.000	1110	1.02	38403.9776	3330
4104	0.813	0.978	1.436	0.000	1110	1.55	38769.9111	3340
4104	0.892	0.911	1.419	0.000	1110	1.58	38800.8472	3340
4104	0.822	0.926	1.449	0.000	1110	1.57	38802.7951	3340
4133	4.410	-0.203	-0.331	0.000	1110	1.15	37713.7601	1110
4133	4.306	-0.178	0.000	0.000	1100	1.08	37721.8056	1110
4133	4.161	0.041	-0.138	0.000	1110	1.10	37779.6703	1110
4133	4.248	-0.121	-0.282	0.000	1110	1.09	37802.6062	1110
4133	4.367	-0.259	0.000	0.342	1101	1.20	38508.7329	1101
4133	4.422	-0.118	0.000	-0.096	1101	1.10	38532.6238	1101
4163	-0.709	1.545	2.342	0.000	1110	1.43	38404.9555	3330
4163	-0.733	1.533	2.385	0.000	1110	1.43	38408.9406	3330
4163	-0.671	1.528	2.310	0.000	1110	1.45	38411.9009	3330
4163	-0.582	1.589	0.000	0.453	1101	1.43	38751.9962	1101
4163	-0.618	1.595	0.000	0.357	1101	1.43	38769.9588	1101
4163	-0.625	1.600	0.000	0.471	1101	1.43	38784.8980	1101
4163	-0.606	1.510	0.000	0.442	1101	1.45	38810.8621	1101
4163	-0.662	1.718	0.000	0.384	1101	1.56	38904.6384	1101
4163	-0.694	1.551	0.000	0.484	1101	1.52	38906.6257	1101
4163	-0.834	1.602	0.000	0.386	1101	1.56	38908.6280	1101
4167	3.135	0.090	0.236	0.000	1110	2.55	38802.8278	3340
4167	3.104	0.202	0.186	0.000	1110	2.55	38828.7535	3340
4195	0.532	1.604	2.442	0.000	1110	1.23	38498.6646	3330
4195	0.538	1.622	0.000	0.000	1100	1.23	38499.7169	1110
4195	0.502	1.507	2.387	0.000	1110	1.25	38500.7439	1110
4195	0.424	1.602	0.000	0.461	1101	1.24	38508.6256	1101
4195	0.399	1.524	0.000	0.440	1101	1.24	38509.7095	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
4195	0.648	2.102	0.000	0.580	1101	1.23	38510.6758	1101
4195	0.623	1.477	0.000	0.456	1101	1.23	38511.6840	1101
4195	0.538	1.583	0.000	0.462	1101	1.26	38540.6438	1101
4195	0.540	1.566	0.000	0.464	1101	1.25	38542.6255	1101
4195	0.402	1.592	0.000	0.433	1101	1.25	38545.6214	1101
4195	0.484	1.525	0.000	0.489	1101	1.26	38547.6246	1101
4216	0.571	0.528	0.882	0.000	1110	2.68	38802.8319	3340
4216	0.601	0.551	0.817	0.000	1110	2.68	38828.7583	3340
4232	0.294	0.770	1.239	0.000	1110	1.62	37767.6153	3330
4232	0.325	0.755	1.192	0.000	1110	1.51	38382.0052	3330
4232	0.236	0.777	1.239	0.000	1110	1.51	38404.9666	3330
4232	0.258	0.776	1.200	0.000	1110	1.50	38408.9469	3330
4232	0.279	0.823	0.000	0.139	1101	1.50	38752.0056	1101
4232	0.256	0.799	0.000	0.104	1101	1.50	38769.9531	1101
4232	0.253	0.809	0.000	0.120	1101	1.50	38784.9169	1101
4232	0.351	0.794	0.000	0.128	1101	1.53	38810.8716	1101
4247	1.425	0.666	1.060	0.000	1110	1.00	38382.0154	3330
4247	1.350	0.683	1.040	0.000	1110	1.00	38392.0001	3330
4273	2.352	0.641	1.022	0.000	1110	1.79	38799.8535	1110
4273	2.334	0.616	0.934	0.000	1110	1.79	38800.8521	3340
4273	2.243	0.621	0.948	0.000	1110	1.85	38802.7993	3340
4287	1.619	0.695	1.081	0.000	1110	1.57	38382.0277	3330
4287	1.599	0.662	1.042	0.000	1110	1.57	38408.9622	3330
4287	1.650	0.647	1.013	0.000	1110	1.58	38411.9305	3330
4293	4.020	0.033	0.108	0.000	1110	2.06	38802.8354	3340
4293	4.075	0.032	0.010	0.000	1110	2.06	38828.7632	3340
4295	2.431	-0.062	-0.108	0.000	1110	1.11	37767.6895	3330
4295	2.334	0.036	0.023	0.000	1110	1.13	37779.6987	1110
4295	2.305	0.011	-0.040	0.000	1110	1.13	37809.6109	1110
4299	0.898	0.959	1.561	0.000	1110	1.22	38382.0413	3330
4299	0.771	1.000	1.621	0.000	1110	1.22	38408.9681	3330
4299	0.867	0.958	1.556	0.000	1110	1.22	38411.9383	3330
4299	0.805	1.063	0.000	0.187	1101	1.22	38752.0128	1101
4299	0.846	1.015	0.000	0.101	1101	1.22	38753.0156	1101
4299	0.835	1.071	0.000	0.217	1101	1.22	38769.9648	1101
4299	0.820	1.080	0.000	0.140	1101	1.22	38784.9246	1101
4301	-0.611	0.701	1.063	0.000	1110	1.16	38382.0579	3330
4301	-0.691	0.698	1.104	0.000	1110	1.15	38403.9859	3330
4301	-0.632	0.742	0.000	0.170	1101	1.15	38511.6941	1101
4301	-0.660	0.721	0.000	0.118	1101	1.20	38517.7220	1101
4301	-0.647	0.672	0.000	0.104	1101	1.17	38810.9003	1101
4335	0.483	0.703	1.112	0.000	1110	1.03	37767.6837	3330
4335	0.392	0.713	1.125	0.000	1110	1.05	37777.7010	3330
4335	0.462	0.721	1.138	0.000	1110	1.03	38381.0483	3330
4335	0.445	0.703	0.000	0.089	1101	1.04	38752.9839	1101
4335	0.432	0.715	0.000	0.145	1101	1.02	38769.9744	1101
4335	0.436	0.741	0.000	0.125	1101	1.02	38773.9514	1101
4335	0.501	0.698	0.000	0.126	1101	1.07	38810.9176	1101
4357	2.275	0.029	0.079	0.000	1110	1.02	37767.7068	3330
4357	2.225	0.066	0.069	0.000	1110	1.04	37777.7115	3330
4359	3.293	-0.012	-0.045	0.000	1110	1.04	37767.7200	3330
4359	3.258	0.054	0.055	0.000	1110	1.08	37779.7149	1110
4359	3.348	0.080	0.063	0.000	1110	1.05	38391.0023	3330
4362	0.007	1.080	1.809	0.000	1110	1.01	38391.0134	3330
4362	-0.058	1.133	1.804	0.000	1110	1.03	38408.9938	3330
4362	0.016	1.122	1.798	0.000	1110	1.02	38415.9233	3330
4362	-0.025	1.123	0.000	0.190	1101	1.06	38752.9683	1101
4362	-0.013	1.162	0.000	0.256	1101	1.02	38769.9922	1101
4362	-0.013	1.133	0.000	0.185	1101	1.01	38773.9604	1101
4362	0.046	1.099	0.000	0.191	1101	1.09	38810.9285	1101
4371	1.394	0.925	1.481	0.000	1110	1.18	38414.9135	3330
4371	1.433	0.883	1.505	0.000	1110	1.16	38415.9344	3330
4371	1.438	0.923	1.499	0.000	1110	1.16	38419.9296	3330
4374	2.279	0.346	0.000	0.000	1100	1.00	38396.9873	1110
4374	2.278	0.419	0.615	0.000	1110	1.00	38419.9403	3330
4374	2.212	0.437	0.627	0.000	1110	1.00	38424.9156	3330
4377	0.352	0.850	1.354	0.000	1110	1.00	38396.9917	1110
4377	0.326	0.880	1.336	0.000	1110	1.00	38419.9452	3330
4377	0.300	0.815	1.335	0.000	1110	1.00	38424.9218	3330
4377	0.295	0.881	0.000	0.149	1101	1.03	38752.9757	1101
4377	0.277	0.913	0.000	0.181	1101	1.01	38769.9977	1101
4377	0.278	0.882	0.000	0.158	1101	1.00	38773.9689	1101
4377	0.354	0.863	0.000	0.131	1101	1.08	38810.9384	1101
4382	0.958	0.732	1.162	0.000	1110	1.46	38396.9958	1110
4382	0.979	0.725	1.139	0.000	1110	1.46	38415.9441	3330
4382	0.932	0.677	1.098	0.000	1110	1.47	38424.9275	3330
4382	0.930	0.767	0.000	0.109	1101	1.47	38773.9776	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
4382	0.944	0.751	0.000	0.159	1101	1.46	38809.8651	1101
4382	1.025	0.730	0.000	0.098	1101	1.47	38810.8799	1101
4382	0.919	0.773	0.000	0.127	1101	1.50	38811.8924	1101
4392	2.783	0.590	0.990	0.000	1110	1.02	38424.9337	3330
4392	2.753	0.557	0.949	0.000	1110	1.02	38425.9294	3330
4392	2.837	0.566	0.974	0.000	1110	1.07	38483.7003	1110
4434	-0.074	0.946	1.642	0.000	1110	1.25	38397.0019	1110
4434	-0.175	1.046	1.648	0.000	1110	1.26	38424.9501	3330
4434	-0.194	1.008	1.648	0.000	1110	1.26	38425.9427	3330
4434	-0.099	1.044	0.000	0.177	1101	1.27	38810.9089	1101
4450	1.428	0.587	0.935	0.000	1110	1.58	38799.8618	1110
4450	1.496	0.509	0.811	0.000	1110	1.58	38800.8750	3340
4450	1.419	0.571	0.852	0.000	1110	1.69	38802.8083	3340
4471	2.005	0.591	0.995	0.000	1110	1.18	38397.0069	1110
4471	2.047	0.621	0.949	0.000	1110	1.18	38415.9557	3330
4471	1.993	0.614	0.981	0.000	1110	1.19	38424.9584	3330
4494	4.835	-0.050	-0.199	0.000	1110	1.68	38799.8674	1110
4494	4.767	-0.051	-0.219	0.000	1110	1.79	38802.8160	3340
4496	3.624	0.385	0.687	0.000	1110	1.01	38424.9654	3330
4496	3.562	0.399	0.692	0.000	1110	1.00	38425.9503	3330
4517	0.075	0.996	1.611	0.000	1110	1.11	38404.0003	3330
4517	0.082	1.000	1.620	0.000	1110	1.12	38409.0041	3330
4517	0.041	1.124	0.000	0.143	1101	1.11	38770.0030	1101
4517	0.074	1.046	0.000	0.143	1101	1.11	38773.9860	1101
4517	0.085	1.066	0.000	0.141	1101	1.11	38809.8748	1101
4517	0.118	1.045	0.000	0.121	1101	1.11	38810.8914	1101
4518	0.937	0.768	1.231	0.000	1110	1.04	38397.9941	3330
4518	0.925	0.758	1.237	0.000	1110	1.04	38404.0072	3330
4518	0.920	0.741	1.230	0.000	1110	1.05	38409.0118	3330
4518	0.965	0.748	0.000	0.182	1101	1.04	38770.0095	1101
4518	0.963	0.799	0.000	0.123	1101	1.06	38773.9424	1101
4518	0.964	0.768	0.000	0.241	1101	1.06	38809.9274	1101
4518	0.969	0.772	0.000	0.136	1101	1.09	38810.9455	1101
4534	1.990	0.034	-0.001	0.000	1110	1.11	37708.8237	1110
4540	2.312	0.301	0.508	0.000	1110	1.18	37711.8353	1110
4540	2.396	0.256	0.455	0.000	1110	1.24	37767.7887	3330
4540	2.348	0.288	0.507	0.000	1110	1.21	37768.6646	3330
4540	2.291	0.369	0.562	0.000	1110	1.21	37779.7458	1110
4546	1.540	0.824	1.257	0.000	1110	2.27	38799.8729	1110
4546	1.600	0.797	1.224	0.000	1110	2.27	38800.8868	3340
4546	1.526	0.782	1.186	0.000	1110	2.45	38802.8229	3340
4550	4.392	0.529	0.886	0.000	1110	1.06	37799.6966	1110
4550	4.402	0.535	0.865	0.000	1110	1.01	37801.6318	3330
4550	4.381	0.531	0.860	0.000	1110	1.03	37809.6500	1110
4550	4.354	0.630	0.000	-0.719	1101	1.08	38544.6894	1101
4550	4.386	0.572	0.000	0.000	1100	1.06	38557.6426	1101
4552	4.434	-0.154	-0.158	0.000	1110	1.65	38800.8917	3340
4552	4.453	-0.013	-0.181	0.000	1110	1.67	38802.8507	3340
4554	2.399	0.010	-0.022	0.000	1110	1.11	37708.8446	1110
4554	2.406	0.054	-0.022	0.000	1110	1.11	37768.6832	3330
4554	2.303	0.053	0.020	0.000	1110	1.10	37769.6949	1110
4554	2.361	0.011	-0.039	0.000	1110	1.11	37777.6582	3330
4554	2.399	0.025	-0.004	0.000	1110	1.10	37778.6670	1110
4566	4.899	-0.043	-0.160	0.000	1110	1.48	38828.6361	3340
4608	1.949	0.576	0.964	0.000	1110	1.09	38391.0551	3330
4608	1.885	0.590	0.960	0.000	1110	1.10	38398.0000	3330
4608	1.854	0.583	0.961	0.000	1110	1.09	38404.0155	3330
4630	0.113	0.731	1.231	0.000	1110	1.74	38404.0226	3330
4630	0.146	0.782	1.245	0.000	1110	1.74	38415.9900	3330
4630	0.090	0.787	1.243	0.000	1110	1.74	38424.9721	3330
4630	0.112	0.832	0.000	0.089	1101	1.74	38774.0104	1101
4630	0.152	0.814	0.000	0.209	1101	1.75	38809.8839	1101
4630	0.118	0.800	0.000	0.160	1101	1.74	38811.9072	1101
4660	3.123	0.019	0.077	0.000	1110	1.13	37711.8668	1110
4660	3.129	0.020	0.035	0.000	1110	1.14	37768.6973	3330
4660	3.057	0.031	0.079	0.000	1110	1.12	37769.7138	1110
4660	3.094	0.099	0.097	0.000	1110	1.32	37778.8358	1110
4660	3.057	-0.036	0.069	0.000	1110	1.15	37831.6155	1110
4662	2.789	-0.033	-0.145	0.000	1110	1.55	38404.0293	3330
4662	2.834	-0.071	-0.138	0.000	1110	1.55	38415.9972	3330
4662	2.786	-0.060	-0.185	0.000	1110	1.54	38425.9572	3330
4695	2.226	0.693	1.189	0.000	1110	1.15	38405.0089	3330
4695	2.207	0.746	1.190	0.000	1110	1.15	38416.0062	3330
4695	2.159	0.754	1.193	0.000	1110	1.14	38425.9632	3330
4707	4.335	-0.064	-0.335	0.000	1110	1.45	38828.6528	3340

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
4737	1.901	0.684	1.070	0.000	1110	1.02	38398.0049	3330
4737	1.912	0.657	1.063	0.000	1110	1.00	38405.0153	3330
4737	1.897	0.626	1.100	0.000	1110	1.01	38427.9355	1110
4743	4.470	-0.102	-0.392	0.000	1110	3.00	38828.7799	3340
4757	3.086	-0.060	-0.088	0.000	1110	1.51	37778.6860	1110
4757	3.005	0.013	-0.039	0.000	1110	1.51	38405.0240	3330
4757	3.073	-0.070	-0.141	0.000	1110	1.52	38419.9741	3330
4757	3.047	0.009	-0.095	0.000	1110	1.52	38427.9446	1110
4785	2.809	0.401	0.587	0.000	1110	1.03	38398.0111	3330
4785	2.867	0.385	0.591	0.000	1110	1.01	38427.9651	1110
4785	2.862	0.363	0.545	0.000	1110	1.01	38431.9421	3330
4786	0.696	0.517	0.761	0.000	1110	1.77	38419.9803	3330
4786	0.700	0.525	0.794	0.000	1110	1.77	38427.9510	1110
4786	0.702	0.540	0.811	0.000	1110	1.77	38431.9472	3330
4786	0.756	0.510	0.000	0.068	1101	1.77	38774.0200	1101
4786	0.673	0.584	0.000	0.033	1101	1.80	38809.8921	1101
4786	0.675	0.546	0.000	0.090	1101	1.77	38811.9002	1101
4787	3.644	0.243	0.000	0.138	1101	1.26	38864.7762	1101
4787	3.771	0.137	0.000	0.227	1101	1.27	38864.7918	1101
4787	3.738	0.203	0.000	0.398	1101	1.27	38865.7919	1101
4787	3.835	-0.046	0.000	0.361	1101	1.32	38866.6863	1101
4787	3.748	0.005	0.000	0.467	1101	1.27	38866.7876	1101
4807	1.171	1.026	0.000	0.396	1101	1.23	38888.6520	1101
4807	0.952	1.057	0.000	0.265	1101	1.22	38889.6515	1101
4807	1.061	1.030	0.000	0.242	1101	1.20	38903.6245	1101
4817	4.586	0.210	-0.003	0.000	1110	2.03	38828.7931	3340
4819	2.117	-0.048	-0.130	0.000	1110	2.76	38828.7986	3340
4825	1.833	0.241	0.348	0.000	1110	1.19	37711.8925	1110
4825	1.883	0.213	0.327	0.000	1110	1.21	37768.7177	3330
4825	1.833	0.262	0.353	0.000	1110	1.19	37769.7312	1110
4825	1.880	0.174	0.258	0.000	1110	1.25	37777.6767	3330
4825	1.871	0.195	0.352	0.000	1110	1.23	38398.0153	3330
4825	1.896	0.200	0.322	0.000	1110	1.20	38407.0349	3330
4825	1.889	0.212	0.316	0.000	1110	1.21	38416.0234	3330
4825	1.910	0.273	0.000	0.092	1101	1.21	38511.7560	1101
4825	1.937	0.126	0.000	0.083	1101	1.20	38517.7325	1101
4825	1.897	0.210	0.000	0.043	1101	1.21	38563.6180	1101
4828	4.921	-0.064	-0.087	0.000	1110	1.41	38828.6479	3340
4831	2.238	0.640	0.983	0.000	1110	2.71	38828.8042	3340
4845	4.565	0.348	0.000	0.398	1101	1.08	38557.6896	1101
4846	-0.863	1.673	2.467	0.000	1110	1.04	38398.0194	3330
4846	-0.795	1.716	2.507	0.000	1110	1.03	38425.9815	3330
4846	-0.729	1.730	2.523	0.000	1110	1.03	38427.9717	1110
4846	-0.849	1.784	0.000	0.608	1101	1.03	38770.0316	1101
4846	-0.770	1.829	0.000	0.668	1101	1.03	38809.9196	1101
4846	-0.844	1.829	0.000	0.602	1101	1.05	38811.9595	1101
4846	-0.811	1.798	0.000	0.580	1101	1.14	38816.0023	1101
4846	-1.056	1.720	0.000	0.652	1101	1.08	38889.6424	1101
4846	-0.890	1.626	0.000	0.710	1101	1.04	38903.6326	1101
4846	-1.018	1.667	0.000	0.689	1101	1.03	38904.6747	1101
4846	-1.051	2.426	0.000	0.684	1101	1.03	38906.6743	1101
4846	-0.876	1.579	0.000	0.754	1101	1.03	38908.6406	1101
4883	3.361	0.382	0.653	0.000	1110	1.00	38425.9902	3330
4883	3.396	0.373	0.616	0.000	1110	1.02	38483.8553	1110
4888	1.212	0.821	1.301	0.000	1110	2.72	38828.8118	3340
4889	3.633	0.104	0.152	0.000	1110	1.97	38828.8194	3340
4902	0.093	1.118	1.822	0.000	1110	1.34	38405.0400	3330
4902	0.123	1.089	1.790	0.000	1110	1.34	38409.0395	3330
4902	0.106	1.088	1.786	0.000	1110	1.34	38424.9917	3330
4902	0.141	1.145	0.000	0.161	1101	1.34	38774.0301	1101
4902	0.189	1.085	0.000	0.276	1101	1.37	38809.9009	1101
4902	0.132	1.167	0.000	0.165	1101	1.34	38811.9145	1101
4905	1.777	-0.027	-0.072	0.000	1110	1.11	37777.7524	3330
4905	1.691	-0.020	-0.004	0.000	1110	1.12	37831.6213	1110
4905	1.767	-0.020	-0.022	0.000	1110	1.09	38405.0458	3330
4910	-1.271	1.064	1.768	0.000	1110	1.17	38398.0244	3330
4910	-1.216	1.036	1.756	0.000	1110	1.14	38421.0069	3330
4910	-1.249	1.040	1.740	0.000	1110	1.14	38424.9995	3330
4910	-1.256	1.084	0.000	0.175	1101	1.14	38774.0403	1101
4910	-1.273	1.154	0.000	0.211	1101	1.15	38809.9112	1101
4910	-1.248	1.108	0.000	0.178	1101	1.14	38811.9236	1101
4910	-1.240	1.077	0.000	0.163	1101	1.23	38815.9795	1101
4914	4.823	0.101	0.245	0.000	1110	1.21	37838.6870	3330
4914	4.683	0.107	0.000	-0.050	1101	1.05	38753.0305	1101
4914	4.583	0.225	0.000	-0.083	1101	1.05	38769.9836	1101

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
4915	3.108	-0.159	-0.173	0.000	1110	1.03	37831.6279	1110
4915	3.231	-0.143	-0.191	0.000	1110	1.16	37838.6736	3330
4915	3.204	-0.110	-0.194	0.000	1110	1.02	38398.0291	3330
4920	0.876	0.945	1.571	0.000	1110	1.04	38425.0065	3330
4920	0.863	0.984	1.590	0.000	1110	1.04	38425.9968	3330
4920	0.917	0.949	1.576	0.000	1110	1.03	38427.9784	1110
4920	0.870	1.029	0.000	0.171	1101	1.04	38811.9399	1101
4920	0.857	1.021	0.000	0.134	1101	1.14	38815.9946	1101
4920	1.121	0.923	0.000	0.267	0101	1.26	38845.7315	1101
4932	0.803	0.573	0.896	0.000	1110	1.10	37778.6998	1110
4932	0.765	0.511	0.898	0.000	1110	1.09	37831.6368	1110
4932	0.757	0.550	0.919	0.000	1110	1.08	38405.0615	3330
4932	0.759	0.589	0.000	0.013	1101	1.07	38811.9320	1101
4932	0.781	0.577	0.000	0.050	1101	1.16	38815.9865	1101
4932	0.958	0.558	0.000	0.077	1101	1.30	38845.7373	1101
4949	-0.421	1.133	0.000	0.250	1101	1.05	38887.6815	1101
4949	-0.057	1.152	0.000	0.279	1101	1.07	38888.6691	1101
4949	-0.287	1.196	0.000	0.294	1101	1.05	38889.6786	1101
4949	-0.139	1.145	0.000	0.275	1101	1.04	38903.6418	1101
4979	3.266	0.374	0.574	0.000	1110	1.85	38828.8306	3340
4983	2.915	0.284	0.544	0.000	1110	1.10	37838.6650	3330
4983	2.861	0.355	0.546	0.000	1110	1.00	38404.0544	3330
4983	2.924	0.335	0.547	0.000	1110	1.00	38421.0155	3330
4983	2.867	0.344	0.541	0.000	1110	1.00	38426.0036	3330
4983	2.927	0.355	0.539	0.000	1110	1.00	38428.0014	1110
4983	2.741	0.372	0.000	0.036	1101	1.09	38508.6970	1101
4983	2.962	0.327	0.000	0.201	1101	1.01	38545.6822	1101
4983	3.005	0.343	0.000	0.000	1100	1.13	38556.7248	1101
4983	2.899	0.349	0.000	0.147	1101	1.06	38557.6985	1101
5020	0.968	0.608	0.880	0.000	1110	1.76	37778.7120	1110
5020	0.913	0.573	0.850	0.000	1110	1.76	38409.0481	3330
5020	0.986	0.602	0.825	0.000	1110	1.77	38428.0095	1110
5020	0.962	0.578	0.885	0.000	1110	1.80	38431.9535	3330
5020	1.087	0.566	0.000	0.296	1101	1.76	38845.8615	1101
5020	0.967	0.469	0.000	0.090	1101	1.76	38866.7977	1101
5028	2.768	-0.063	-0.118	0.000	1110	1.83	38828.8264	3340
5054	1.985	0.081	0.063	0.000	1110	1.08	38409.0597	3330
5054	2.078	-0.031	-0.050	0.000	1110	1.08	38421.0225	3330
5054	2.254	-0.063	-0.141	0.000	1110	1.09	38428.0160	1110
5056	1.788	-0.202	-0.441	0.000	1110	1.58	37708.8654	1110
5056	1.627	-0.128	-0.341	0.000	1110	1.38	37769.7437	1110
5056	1.700	-0.181	-0.378	0.000	1110	1.62	37770.8692	1110
5056	1.680	-0.191	-0.422	0.000	1110	1.35	37777.7421	3330
5056	1.730	-0.195	-0.416	0.000	1110	1.37	37801.6608	3330
5056	1.830	-0.179	-0.388	0.000	1110	1.60	37805.7716	1110
5056	1.744	-0.157	-0.417	0.000	1110	1.36	37809.6991	1110
5056	1.676	-0.149	-0.374	0.000	1110	1.47	37830.6802	1110
5056	1.676	-0.165	-0.356	0.000	1110	1.36	37831.6426	1110
5056	1.781	-0.179	-0.417	0.000	1110	1.78	37831.7212	1110
5056	1.779	-0.144	-0.420	0.000	1110	1.93	37832.7311	1110
5056	1.651	-0.190	-0.405	0.000	1110	1.34	37837.6116	3330
5056	1.638	-0.154	-0.390	0.000	1110	1.46	37838.6569	3330
5056	1.649	-0.148	-0.391	0.000	1110	2.28	37838.7354	3330
5056	1.693	-0.189	-0.356	0.000	1110	1.40	38200.6520	1110
5056	1.742	-0.187	-0.429	0.000	1110	1.42	38391.0640	3330
5056	1.654	-0.150	-0.382	0.000	1110	1.52	38397.0181	1110
5056	1.641	-0.191	-0.381	0.000	1110	1.45	38398.0341	3330
5056	1.648	-0.156	-0.399	0.000	1110	1.39	38404.0459	3330
5056	1.632	-0.134	-0.380	0.000	1110	1.50	38405.0008	3330
5056	1.716	-0.205	-0.436	0.000	1110	1.38	38405.0536	3330
5056	1.765	-0.202	-0.453	0.000	1110	1.44	38407.0124	3330
5056	1.628	-0.156	-0.391	0.000	1110	1.38	38409.0327	3330
5056	1.712	-0.168	-0.441	0.000	1110	1.48	38415.9753	3330
5056	1.706	-0.146	-0.414	0.000	1110	1.38	38416.0138	3330
5056	1.623	-0.106	-0.340	0.000	1110	1.39	38416.0569	3330
5056	1.729	-0.196	-0.478	0.000	1110	1.38	38420.0118	3330
5056	1.645	-0.158	-0.397	0.000	1110	1.41	38420.9830	3330
5056	1.632	-0.151	-0.401	0.000	1110	1.39	38424.9839	3330
5056	1.646	-0.143	-0.390	0.000	1110	1.38	38425.0143	3330
5056	1.647	-0.159	-0.385	0.000	1110	1.40	38425.9753	3330
5056	1.725	-0.185	-0.442	0.000	1110	1.37	38427.9957	1110
5056	1.726	-0.166	-0.436	0.000	1110	1.49	38431.9284	3330
5056	1.631	-0.147	-0.452	0.000	1110	1.49	38496.7517	1110
5056	1.660	-0.149	-0.400	0.000	1110	1.53	38498.7378	3330
5056	1.632	-0.164	-0.393	0.000	1110	1.38	38498.7908	3330
5056	0.000	0.000	-0.440	0.000	0010	1.44	38498.8507	3330
5056	1.703	-0.227	-0.417	0.000	1110	2.16	38498.9361	3330
5056	1.704	-0.181	-0.427	0.000	1110	1.90	38499.6899	1110
5056	1.683	-0.180	-0.398	0.000	1110	1.38	38499.7942	1110
5056	1.707	-0.210	-0.420	0.000	1110	1.90	38499.9162	1110
5056	1.611	-0.183	-0.357	0.000	1110	1.65	38500.7128	1110
5056	0.000	0.000	-0.381	0.000	0010	1.37	38500.7954	1110
5056	1.911	-0.291	-0.512	0.000	1110	1.89	38500.9128	1110
5056	1.680	-0.158	-0.393	0.000	1110	1.39	38501.7735	1110
5056	1.631	-0.138	-0.369	0.000	1110	1.42	38505.7470	1110
5056	1.616	-0.076	0.000	0.047	1101	1.38	38508.7832	1101
5056	1.431	-0.225	0.000	-0.182	1101	1.38	38509.7807	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
5056	1.679	-0.273	0.000	0.230	1101	1.39	38510.7520	1101
5056	1.679	-0.147	0.000	-0.048	1101	1.38	38511.7690	1101
5056	1.761	-0.197	0.000	0.045	1101	1.52	38512.8326	1101
5056	1.703	-0.160	0.000	-0.013	1101	1.46	38513.8170	1101
5056	1.738	-0.201	0.000	-0.032	1101	1.41	38515.7268	1101
5056	1.629	-0.131	0.000	-0.020	1101	1.38	38517.7426	1101
5056	1.697	-0.262	-0.460	0.000	1110	1.38	38521.7487	3330
5056	1.721	-0.205	0.000	-0.026	1101	1.52	38531.7814	1101
5056	1.654	-0.130	0.000	0.063	1101	1.38	38537.7113	1101
5056	1.703	-0.177	0.000	0.004	1101	1.39	38538.7148	1101
5056	1.733	-0.215	0.000	0.118	1101	1.39	38539.6731	1101
5056	1.700	-0.159	0.000	0.037	1101	1.40	38540.6629	1101
5056	1.630	-0.153	0.000	0.135	1101	1.40	38542.7120	1101
5056	1.613	-0.089	0.000	0.023	1101	1.38	38543.6977	1101
5056	1.675	-0.042	0.000	0.007	1101	1.39	38544.6991	1101
5056	1.734	-0.180	0.000	0.069	1101	1.39	38545.6952	1101
5056	1.661	-0.123	0.000	0.094	1101	1.40	38546.7007	1101
5056	1.692	-0.171	0.000	0.073	1101	1.38	38547.6576	1101
5056	1.708	-0.225	0.000	0.108	1101	1.40	38549.6924	1101
5056	1.703	-0.215	0.000	0.078	1101	1.38	38556.6335	1101
5056	1.677	-0.198	0.000	0.141	1101	1.53	38556.7139	1101
5056	1.650	-0.155	0.000	0.092	1101	1.38	38557.6608	1101
5056	1.547	-0.201	0.000	-0.177	1101	1.38	38558.6518	1101
5056	1.857	-0.227	0.000	0.092	1101	1.38	38559.6496	1101
5056	1.679	-0.193	0.000	0.086	1101	1.40	38563.6555	1101
5056	1.681	-0.113	0.000	-0.114	1101	1.42	38564.6639	1101
5056	0.000	-0.207	0.000	0.089	0101	1.14	38566.6792	1101
5056	1.626	-0.181	0.000	0.057	1101	1.41	38569.6433	1101
5056	1.627	-0.220	0.000	-0.050	1101	1.64	38570.6950	1101
5056	1.622	-0.164	0.000	-0.025	1101	1.45	38770.0151	1101
5056	1.746	-0.109	-0.409	0.000	1110	2.12	38799.7944	1110
5056	1.684	-0.257	-0.477	0.000	1110	1.24	38799.8889	1110
5056	1.688	-0.169	-0.413	0.000	1110	3.98	38802.7431	3340
5056	1.719	-0.217	0.000	-0.039	1101	1.38	38809.9372	1101
5056	1.744	-0.214	0.000	-0.068	1101	1.37	38810.9535	1101
5056	1.652	-0.173	0.000	-0.049	1101	1.37	38811.9487	1101
5056	1.656	-0.164	0.000	-0.031	1101	1.39	38815.9607	1101
5056	1.725	-0.167	0.000	-0.020	1101	2.05	38818.8051	1101
5056	1.671	-0.198	0.000	-0.042	1101	1.38	38818.9219	1101
5056	1.739	-0.113	0.000	-1.693	1100	2.13	38820.7947	1101
5056	1.651	-0.183	0.000	0.058	1101	1.41	38822.8832	1101
5056	1.690	-0.207	0.000	0.025	1101	1.38	38825.9032	1101
5056	1.627	-0.162	-0.434	0.000	1110	3.17	38828.6840	3340
5056	1.675	-0.166	-0.449	0.000	1110	1.40	38828.7750	3340
5056	1.560	-0.200	-0.461	0.000	1110	1.16	38828.8549	3340
5056	1.800	-0.237	0.000	0.013	1101	2.19	38833.7555	1101
5056	1.637	-0.079	0.000	0.074	1101	1.42	38843.8231	1101
5056	1.759	-0.210	0.000	0.027	1101	1.47	38845.9105	1101
5056	1.629	-0.143	0.000	-0.081	1101	1.39	38864.7842	1101
5056	1.806	-0.230	0.000	-0.051	1101	1.40	38864.8326	1101
5056	1.660	-0.141	0.000	-0.032	1101	1.40	38865.7727	1101
5056	1.804	-0.289	0.000	-0.107	1101	1.45	38865.8495	1101
5056	1.688	-0.219	0.000	0.026	1101	1.38	38866.7796	1101
5056	1.628	-0.078	0.000	-0.089	1101	1.61	38866.8786	1101
5056	1.632	-0.129	0.000	-0.106	1101	1.38	38877.7596	1101
5056	2.002	-0.178	0.000	0.159	1101	1.38	38881.7396	1101
5056	1.597	-0.246	0.000	-0.145	1101	1.54	38881.8262	1101
5056	1.714	-0.209	0.000	-0.026	1101	1.40	38887.7106	1101
5056	1.659	-0.261	0.000	-0.072	1101	1.59	38888.6600	1101
5056	1.861	-0.250	0.000	-0.003	1101	1.45	38888.6884	1101
5056	1.591	-0.158	0.000	-0.042	1101	1.45	38889.6856	1101
5056	1.742	-0.185	0.000	-0.080	1101	1.43	38903.6566	1101
5056	1.536	-0.169	0.000	-0.104	1101	1.38	38904.6814	1101
5056	1.502	-0.151	0.000	0.017	1101	1.38	38906.6816	1101
5056	1.702	-0.199	0.000	-0.034	1101	1.42	38908.6472	1101
5056	1.613	-0.123	0.000	-0.001	1101	1.37	38910.6819	1101
5056	1.736	-0.178	0.000	-0.019	1101	1.38	38911.6588	1101
5056	1.626	-0.245	0.000	0.046	1101	1.38	38912.6672	1101
5056	1.624	-0.133	0.000	-0.038	1101	1.38	38916.6537	1101
5056	1.640	-0.239	0.000	-0.031	1101	1.37	38921.6437	1101
5056	1.623	-0.015	0.000	0.069	1101	1.38	38922.6600	1101
5056	1.674	-0.311	0.000	0.235	1101	1.37	38926.6352	1101
5056	1.825	-0.157	0.000	0.042	1101	1.39	38931.6423	1101
5056	1.656	-0.252	0.000	-0.092	1101	1.40	38936.6342	1101
5056	1.749	-0.181	0.000	0.019	1101	1.47	39133.0153	3303
5056	1.821	-0.188	0.000	-0.025	1101	1.45	39139.0038	1101
5080	-2.229	1.236	2.587	0.000	1110	1.76	38420.0267	3330
5080	-2.232	1.321	2.548	0.000	1110	1.78	38428.0219	1110
5080	-2.252	1.322	2.588	0.000	1110	1.81	38431.9593	3330
5080	-2.529	1.310	0.000	0.446	1101	1.76	38547.6747	1101
5080	-2.664	1.330	0.000	0.372	1101	1.77	38563.6459	1101
5080	-2.674	1.286	0.000	0.472	1101	1.78	38569.6358	1101
5080	-2.259	1.238	0.000	0.558	1101	1.76	38866.8073	1101
5080	-2.190	1.220	0.000	0.553	1101	1.86	38889.6939	1101
5080	-2.254	1.231	0.000	0.501	1101	1.80	38903.6707	1101
5080	-2.352	1.200	0.000	0.533	1101	1.77	38904.6884	1101
5080	-2.305	1.243	0.000	0.634	1101	1.76	38906.6885	1101
5080	-2.428	1.248	0.000	0.519	1101	1.81	38908.6541	1101
5089	1.311	0.680	1.122	0.000	1110	1.97	38828.8347	3340
5095	0.349	1.036	1.664	0.000	1110	1.28	38420.0338	3330
5095	0.309	1.053	1.724	0.000	1110	1.28	38421.0287	3330
5095	0.379	1.092	1.705	0.000	1110	1.29	38428.0274	1110

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
5095	0.357	1.127	0.000	0.227	1101	1.28	38845.8668	1101
5095	0.259	1.094	0.000	0.143	1101	1.28	38866.8024	1101
5107	3.079	0.116	0.117	0.000	1110	1.18	38420.0411	3330
5107	3.096	0.056	0.095	0.000	1110	1.18	38421.0350	3330
5107	3.135	0.114	0.077	0.000	1110	1.20	38428.0328	1110
5154	0.452	1.047	1.680	0.000	1110	1.08	38420.0486	3330
5154	0.417	1.033	1.728	0.000	1110	1.08	38421.0412	3330
5154	0.450	1.084	1.678	0.000	1110	1.10	38431.9648	3330
5154	0.334	1.091	0.000	0.166	1101	1.08	38811.9670	1101
5154	0.358	1.078	0.000	0.179	1101	1.10	38845.9056	1101
5168	3.395	0.211	0.211	0.000	1110	1.69	38828.8389	3340
5191	2.520	-0.147	-0.357	0.000	1110	1.06	38431.9714	3330
5191	2.379	-0.127	-0.209	0.000	1110	1.05	38493.8312	3330
5191	2.301	-0.104	0.000	0.055	1101	1.05	38559.6569	1101
5192	-1.684	1.255	0.000	0.137	1101	2.52	38563.6350	1101
5192	-1.638	1.137	2.054	0.000	1110	1.74	38828.8437	3340
5192	-1.612	1.155	0.000	0.240	1101	2.72	38889.7055	1101
5200	0.441	0.944	1.491	0.000	1110	1.06	38431.9771	3330
5200	0.415	0.981	1.542	0.000	1110	1.16	38481.7898	1110
5200	0.357	0.962	1.598	0.000	1110	1.04	38493.8353	3330
5200	0.298	0.960	0.000	0.119	1101	1.04	38559.6632	1101
5200	0.357	1.001	0.000	0.134	1101	1.04	38811.9747	1101
5200	0.367	1.003	0.000	0.132	1101	1.10	38816.0098	1101
5200	0.332	1.037	0.000	0.118	1101	1.04	38845.8793	1101
5219	0.179	1.079	1.749	0.000	1110	1.00	38420.0547	3330
5219	0.080	1.090	1.805	0.000	1110	1.00	38426.0283	3330
5219	0.175	1.086	1.809	0.000	1110	1.01	38431.9812	3330
5219	0.086	1.143	0.000	0.151	1101	1.00	38811.9822	1101
5219	0.174	1.105	0.000	0.195	1101	1.00	38845.8858	1101
5226	-0.070	1.057	1.791	0.000	1110	1.19	38420.0598	3330
5226	-0.160	1.060	1.788	0.000	1110	1.19	38426.0345	3330
5226	-0.039	1.032	1.780	0.000	1110	1.19	38431.9865	3330
5231	3.282	-0.196	-0.497	0.000	1110	2.58	38828.8493	3340
5235	1.360	0.331	0.542	0.000	1110	1.07	37711.9110	1110
5235	1.335	0.314	0.535	0.000	1110	1.04	37768.8394	3330
5235	1.288	0.351	0.551	0.000	1110	1.06	37769.7573	1110
5235	1.347	0.350	0.567	0.000	1110	1.14	37770.8797	1110
5235	1.369	0.348	0.517	0.000	1110	1.07	37778.7256	1110
5235	1.326	0.332	0.557	0.000	1110	1.03	37779.7589	1110
5235	1.348	0.341	0.543	0.000	1110	1.02	37799.7322	1110
5235	1.382	0.405	0.000	-0.092	1101	1.05	38511.8247	1101
5235	1.384	0.352	0.000	0.066	1101	1.05	38512.8251	1101
5235	1.370	0.364	0.000	0.066	1101	1.04	38513.8100	1101
5235	0.000	0.278	0.000	0.064	0101	1.04	38517.7520	1101
5235	1.348	0.249	0.000	0.038	1101	1.03	38517.7605	1101
5235	1.360	0.288	0.000	-0.030	1101	1.07	38549.7358	1101
5235	1.343	0.352	0.000	0.051	1101	1.10	38770.0218	1101
5235	1.496	0.351	0.000	0.103	1101	2.11	38771.8897	1101
5235	1.442	0.282	0.000	0.009	1101	1.17	38771.9898	1101
5235	1.406	0.359	0.000	0.061	1101	1.03	38784.0625	1101
5235	1.344	0.341	0.000	0.054	1101	1.05	38811.9992	1101
5235	1.419	0.354	0.000	-0.032	1101	1.03	38823.9227	1101
5235	1.361	0.312	0.000	0.095	1101	1.04	38825.9097	1101
5235	1.601	0.278	0.000	0.136	1101	1.06	38845.9148	1101
5235	1.245	0.382	0.000	0.060	1101	1.17	38869.8967	1101
5235	1.420	0.351	0.000	0.120	1101	1.10	38874.7322	1101
5235	1.397	0.348	0.000	0.084	1101	1.04	38875.7659	1101
5235	1.367	0.366	0.000	0.070	1101	1.04	38876.8141	1101
5235	1.592	0.320	0.000	0.281	1101	1.03	38877.7818	1101
5235	1.354	0.286	0.000	0.143	1101	1.04	38881.7490	1101
5235	1.305	0.382	0.000	0.010	1101	1.09	38881.8347	1101
5235	1.439	0.269	0.000	0.075	1101	1.06	38923.7067	1101
5235	1.365	0.318	0.000	0.016	1101	1.03	38924.6585	1101
5235	1.596	0.411	0.000	0.383	1101	1.04	38925.6328	1101
5235	1.578	0.342	0.000	0.331	1101	1.05	38926.6248	1101
5235	1.362	0.314	0.000	0.026	1101	1.04	38931.6211	1101
5235	1.362	0.314	0.000	0.026	1101	1.04	38931.6211	1101
5235	1.432	0.372	0.000	0.064	1101	1.16	39133.0062	3303
5235	1.468	0.330	0.000	0.117	1101	1.30	39134.9682	1101
5235	1.396	0.340	0.000	0.087	1101	1.19	39135.9892	1101
5287	0.711	0.692	1.111	0.000	1110	1.89	37767.8463	3330
5287	0.736	0.739	1.099	0.000	1110	1.89	37778.7572	1110
5287	0.729	0.732	0.000	0.084	1101	1.93	38845.8906	1101
5287	0.732	0.657	0.000	0.223	1101	1.94	38866.8128	1101
5299	-0.403	1.153	2.058	0.000	1110	1.04	37801.6944	3330
5299	-0.364	1.173	2.034	0.000	1110	1.03	37801.7319	3330
5299	-0.400	1.144	2.040	0.000	1110	1.04	37809.6722	1110
5299	-0.372	1.168	2.023	0.000	1110	1.03	37809.6888	1110
5299	-0.397	1.192	2.080	0.000	1110	1.03	37837.6191	3330
5299	-0.282	1.122	0.000	0.194	1101	1.02	38845.8956	1101
5299	0.158	1.226	0.000	0.182	0101	1.03	38881.7603	1101
5315	0.995	0.833	1.339	0.000	1110	1.36	38416.0651	3330
5315	1.039	0.805	1.338	0.000	1110	1.36	38425.0467	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
5315	0.989	0.867	1.381	0.000	1110	1.36	38426.0546	3330
5315	1.084	0.884	0.000	0.154	1101	1.36	38845.9004	1101
5315	0.981	0.857	0.000	0.049	1101	1.36	38866.8182	1101
5315	1.003	0.884	0.000	0.005	1101	1.37	38881.7702	1101
5340	-2.982	0.839	1.295	0.000	1110	1.35	37708.8584	1110
5340	-2.978	0.795	1.254	0.000	1110	1.07	37711.9214	1110
5340	-3.009	0.875	1.295	0.000	1110	1.94	37767.6439	3330
5340	-3.019	0.801	0.000	0.000	1100	1.02	37767.8352	3330
5340	-2.981	0.834	1.301	0.000	1110	2.03	37768.6361	3330
5340	-3.053	0.827	1.352	0.000	1110	1.02	37768.8148	3330
5340	-3.132	0.912	1.367	0.000	1110	1.56	37769.6666	1110
5340	-3.119	0.885	1.390	0.000	1110	1.04	37769.8561	1110
5340	-3.021	0.813	1.307	0.000	1110	1.04	37770.8494	1110
5340	-2.995	0.800	1.287	0.000	1110	1.67	37777.6352	3330
5340	-3.028	0.813	1.293	0.000	1110	1.02	37777.8137	3330
5340	-2.993	0.800	1.299	0.000	1110	1.65	37778.6345	1110
5340	-2.997	0.822	1.304	0.000	1110	1.03	37778.8162	1110
5340	-3.019	0.870	1.301	0.000	1110	1.71	37779.6264	1110
5340	-3.012	0.818	1.312	0.000	1110	1.02	37779.7757	1110
5340	-3.026	0.865	1.293	0.000	1110	1.47	37780.6466	1110
5340	-3.001	0.824	1.333	0.000	1110	1.02	37799.7260	1110
5340	-3.037	0.835	1.310	0.000	1110	1.08	37801.6715	3330
5340	-3.005	0.811	1.316	0.000	1110	1.03	37801.7042	3330
5340	-2.982	0.821	1.327	0.000	1110	1.02	37801.7375	3330
5340	-3.009	0.802	1.295	0.000	1110	1.03	37802.7076	1110
5340	-3.025	0.799	1.372	0.000	1110	1.03	37803.7517	1110
5340	-2.991	0.826	1.345	0.000	1110	1.08	37805.7799	1110
5340	-3.024	0.785	1.302	0.000	1110	1.03	37809.6815	1110
5340	-2.979	0.813	1.273	0.000	1110	1.02	37809.6939	1110
5340	-2.994	0.798	1.335	0.000	1110	1.20	37828.7532	1110
5340	-2.989	0.859	1.368	0.000	1110	1.17	37829.7437	3330
5340	-3.032	0.828	1.315	0.000	1110	2.59	37829.8612	3330
5340	-3.050	0.816	1.325	0.000	1110	1.04	37830.6854	1110
5340	-3.063	0.813	1.349	0.000	1110	1.02	37831.6485	1110
5340	-3.020	0.811	1.330	0.000	1110	1.03	37831.6669	1110
5340	-3.031	0.808	1.321	0.000	1110	1.09	37831.7104	1110
5340	-3.009	0.816	1.343	0.000	1110	1.13	37832.7241	1110
5340	-3.003	0.835	1.342	0.000	1110	1.18	37832.7385	1110
5340	-3.028	0.837	1.336	0.000	1110	1.02	37837.6241	3330
5340	-3.011	0.845	1.333	0.000	1110	1.19	37837.7265	3330
5340	-3.003	0.833	1.309	0.000	1110	2.53	37837.8374	3330
5340	-3.040	0.829	1.341	0.000	1110	1.03	37838.6507	3330
5340	-3.013	0.821	1.320	0.000	1110	1.27	37838.7410	3330
5340	-3.005	0.788	1.295	0.000	1110	2.99	37838.8471	3330
5340	-3.041	0.811	1.282	0.000	1110	1.03	38200.6431	1110
5340	-3.032	0.838	1.288	0.000	1110	1.24	38200.7613	1110
5340	-2.959	0.772	1.242	0.000	1110	2.06	38369.0089	3330
5340	-2.961	0.808	1.282	0.000	1110	1.24	38381.0580	3330
5340	-2.970	0.802	1.315	0.000	1110	2.13	38382.9672	1110
5340	-2.963	0.770	1.232	0.000	1110	1.97	38390.9536	3330
5340	-2.992	0.859	1.262	0.000	1110	2.14	38391.9422	3330
5340	0.000	0.771	1.220	0.000	0110	1.97	38396.9374	1110
5340	-2.951	0.810	1.240	0.000	1110	2.20	38400.9146	3330
5340	-2.968	0.779	1.278	0.000	1110	1.05	38404.0665	3330
5340	-2.989	0.793	1.267	0.000	1110	1.03	38409.0687	3330
5340	-2.977	0.794	1.253	0.000	1110	2.17	38411.8863	3330
5340	-3.029	0.829	1.315	0.000	1110	2.09	38414.8818	3330
5340	-2.986	0.807	1.247	0.000	1110	2.11	38419.8672	3330
5340	-2.885	0.800	1.259	0.000	1110	1.03	38420.0658	3330
5340	-2.948	0.796	1.248	0.000	1110	2.13	38420.8633	3330
5340	-2.982	0.797	1.291	0.000	1110	1.03	38421.0466	3330
5340	-2.984	0.785	1.278	0.000	1110	1.04	38425.0691	3330
5340	-2.974	0.803	1.264	0.000	1110	1.03	38426.0194	3330
5340	-2.993	0.794	1.276	0.000	1110	1.03	38426.0626	3330
5340	-2.912	0.789	1.249	0.000	1110	1.03	38428.0388	1110
5340	-2.960	0.787	1.269	0.000	1110	1.12	38480.8176	1110
5340	-2.946	0.804	1.276	0.000	1110	1.08	38480.9436	1110
5340	-2.976	0.863	1.281	0.000	1110	1.10	38481.8238	1110
5340	-3.030	0.802	1.314	0.000	1110	1.74	38493.6872	3330
5340	-3.009	0.819	1.327	0.000	1110	1.03	38493.8719	3330
5340	-3.059	0.825	1.349	0.000	1110	2.36	38494.6515	3330
5340	-3.016	0.773	1.313	0.000	1110	1.03	38494.8583	3330
5340	-2.879	0.774	0.000	0.000	1100	1.10	38496.9111	1110
5340	-2.974	0.805	1.252	0.000	1110	1.20	38498.7438	3330
5340	-3.008	0.815	1.332	0.000	1110	1.06	38498.7964	3330
5340	-2.950	0.787	1.265	0.000	1110	1.03	38498.8445	3330
5340	-2.962	0.800	1.267	0.000	1110	1.23	38498.9428	3330
5340	-2.974	0.788	1.228	0.000	1110	1.48	38499.6957	1110
5340	-3.071	0.808	1.308	0.000	1110	1.03	38499.8288	1110
5340	-3.020	0.798	0.000	0.000	1100	1.16	38499.9220	1110
5340	-3.045	0.824	1.354	0.000	1110	1.30	38500.7186	1110
5340	-3.017	0.789	1.327	0.000	1110	1.04	38500.8092	1110
5340	0.000	0.000	1.235	0.000	0010	1.34	38500.9583	1110
5340	-2.948	0.782	1.285	0.000	1110	1.03	38501.8247	1110
5340	-3.185	0.811	0.000	0.030	1101	1.09	38508.7512	1101
5340	-2.921	0.710	0.000	0.249	1101	1.03	38509.7697	1101
5340	-2.933	0.854	0.000	0.194	1101	1.09	38511.7432	1101
5340	-2.966	0.840	0.000	0.160	1101	1.03	38511.8168	1101
5340	-3.139	0.750	0.000	0.131	1101	1.40	38511.9369	1101
5340	-2.978	0.816	0.000	0.113	1101	1.03	38512.8174	1101
5340	-3.018	0.750	0.000	0.118	1101	1.03	38513.7989	1101
5340	-2.996	0.767	0.000	0.115	1101	1.09	38515.7358	1101
5340	-3.060	0.793	0.000	0.132	1101	1.13	38515.8709	1101
5340	-3.000	0.833	1.313	0.000	1110	1.03	38521.7876	3330
5340	-2.965	0.892	0.000	0.173	1101	1.03	38531.7722	1101

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
5340	-3.069	0.809	0.000	0.075	1101	1.06	38531.7926	1101
5340	-3.073	0.839	0.000	0.124	1101	1.47	38532.6066	1101
5340	-3.063	0.874	0.000	0.036	1101	1.03	38532.7421	1101
5340	-3.027	0.807	0.000	0.092	1101	1.04	38533.7141	1101
5340	-2.985	0.804	0.000	0.116	1101	1.10	38533.8107	1101
5340	-2.945	0.748	0.000	0.168	1101	1.03	38534.7345	1101
5340	0.000	0.834	0.000	0.179	0101	1.23	38536.8391	1101
5340	-3.109	1.013	0.000	0.230	1101	1.05	38537.6994	1101
5340	-2.990	0.803	0.000	0.116	1101	1.06	38537.7798	1101
5340	-2.991	0.759	0.000	0.171	1101	1.04	38538.7037	1101
5340	-2.965	0.801	0.000	0.142	1101	1.06	38538.7730	1101
5340	-3.118	0.856	0.000	0.124	1101	1.10	38539.6637	1101
5340	-3.030	0.868	0.000	0.179	1101	1.12	38540.6531	1101
5340	-2.959	0.850	0.000	-0.020	1101	1.26	38542.6122	1101
5340	-3.160	0.934	0.000	0.140	1101	1.03	38542.7220	1101
5340	-2.945	0.790	0.000	0.124	1101	1.18	38542.8127	1101
5340	-2.925	0.732	0.000	0.196	1101	1.09	38543.6575	1101
5340	-3.062	0.819	0.000	0.128	1101	1.04	38543.6900	1101
5340	-3.131	0.859	0.000	0.134	1101	1.04	38543.7444	1101
5340	-2.892	0.763	0.000	0.107	1101	1.09	38544.6530	1101
5340	-2.974	0.809	0.000	0.131	1101	1.03	38544.7070	1101
5340	-2.933	0.772	0.000	0.083	1101	1.20	38544.8114	1101
5340	-3.042	0.790	0.000	0.160	1101	1.25	38545.6062	1101
5340	-2.969	0.750	0.000	0.086	1101	1.03	38545.7283	1101
5340	-2.934	0.830	0.000	0.025	1101	1.17	38545.8015	1101
5340	-2.984	0.757	0.000	0.048	1101	1.06	38546.6681	1101
5340	-3.079	0.851	0.000	0.183	1101	1.03	38546.7143	1101
5340	-2.989	0.905	0.000	0.013	1101	1.28	38546.8222	1101
5340	-3.045	0.837	0.000	0.085	1101	1.19	38547.6126	1101
5340	-3.048	0.824	0.000	0.134	1101	1.03	38547.6858	1101
5340	-2.981	0.834	0.000	0.136	1101	1.13	38547.7819	1101
5340	-3.137	0.856	0.000	0.090	1101	1.03	38549.7119	1101
5340	-2.904	0.809	0.000	0.143	1101	1.08	38556.6269	1101
5340	-3.060	0.826	0.000	-0.007	1101	1.07	38556.7350	1101
5340	-3.043	0.852	0.000	0.122	1101	1.03	38557.6801	1101
5340	-3.087	0.808	0.000	0.042	1101	1.11	38559.7412	1101
5340	-3.029	0.823	0.000	0.056	1101	1.08	38563.6096	1101
5340	-2.871	0.841	0.000	0.190	1101	1.03	38564.6490	1101
5340	-3.091	0.815	0.000	0.110	1101	1.03	38565.6682	1101
5340	-2.969	0.845	0.000	0.130	1101	1.07	38565.7091	1101
5340	-3.044	0.847	0.000	0.046	1101	1.03	38566.6401	1101
5340	-2.997	0.850	0.000	0.144	1101	1.03	38566.6711	1101
5340	-3.116	0.827	0.000	0.142	1101	1.04	38569.6218	1101
5340	-3.136	0.861	0.000	0.103	1101	1.03	38569.6286	1101
5340	-3.045	0.794	1.285	0.000	1110	1.09	38569.7055	3330
5340	-2.994	0.853	0.000	0.120	1101	1.12	38569.7196	1101
5340	-3.092	0.828	0.000	0.148	1101	1.06	38570.6858	1101
5340	-3.101	0.910	0.000	0.040	1101	1.55	38627.6382	1101
5340	-2.917	0.748	0.000	0.093	1101	1.38	38631.6076	1101
5340	-3.006	0.798	0.000	0.101	1101	1.03	38784.0694	1101
5340	-3.025	0.822	0.000	0.084	1101	1.05	38785.0203	1101
5340	-2.956	0.774	0.000	0.155	1101	1.05	38809.9553	1101
5340	-2.944	0.747	0.000	0.100	1101	1.04	38810.9630	1101
5340	-3.030	0.806	0.000	0.113	1101	1.03	38811.9897	1101
5340	-3.020	0.781	0.000	0.097	1101	1.03	38815.9710	1101
5340	-3.006	0.794	0.000	0.093	1101	1.06	38816.0174	1101
5340	-3.014	0.803	0.000	0.144	1101	1.05	38819.0015	1101
5340	-2.952	0.729	0.000	0.246	1101	1.05	38822.9174	1101
5340	-2.872	0.720	0.000	0.067	1101	1.03	38823.9293	1101
5340	-3.078	0.889	0.000	0.103	1101	1.03	38824.9399	1101
5340	-2.999	0.824	0.000	0.208	1101	1.13	38864.7628	1101
5340	-3.017	0.793	0.000	0.259	1101	1.07	38864.7892	1101
5340	-3.012	0.860	0.000	0.186	1101	1.03	38864.8275	1101
5340	-3.155	0.917	0.000	0.090	1101	1.08	38865.7788	1101
5340	-3.011	0.852	0.000	0.108	1101	1.03	38865.8438	1101
5340	-3.005	0.771	0.000	0.130	1101	1.19	38866.7391	1101
5340	-3.072	0.797	0.000	0.110	1101	1.09	38866.7743	1101
5340	-2.867	0.768	0.000	0.235	1101	1.05	38866.8672	1101
5340	-3.100	0.919	0.000	0.051	1101	1.14	38869.9031	1101
5340	-2.950	0.816	0.000	0.095	1101	2.00	38870.0083	1101
5340	-2.913	0.871	0.000	0.260	1101	1.08	38874.8663	1101
5340	-2.930	0.808	0.000	0.245	1101	1.05	38875.7753	1101
5340	-2.959	0.868	0.000	0.070	1101	1.03	38876.8087	1101
5340	-2.872	0.761	0.000	0.169	1101	1.03	38877.7893	1101
5340	-3.064	0.839	0.000	0.168	1101	1.12	38887.7019	1101
5340	-3.266	0.813	0.000	0.220	1101	1.03	38887.7951	1101
5340	-2.775	0.759	0.000	0.305	1101	1.37	38888.6444	1101
5340	-2.811	0.889	0.000	0.322	1101	1.18	38888.6812	1101
5340	-2.819	0.791	0.000	0.376	1101	1.03	38888.7611	1101
5340	-2.919	0.826	0.000	0.192	1101	1.27	38889.6593	1101
5340	-3.146	0.805	0.000	0.262	1101	1.03	38889.7555	1101
5340	-2.895	0.792	0.000	0.255	1101	1.15	38903.6487	1101
5340	-2.975	0.831	0.000	0.165	1101	1.07	38903.6812	1101
5340	-3.137	0.828	0.000	0.084	1101	1.03	38903.7497	1101
5340	-2.921	0.792	0.000	0.245	1101	1.09	38904.6687	1101
5340	-2.944	0.832	0.000	0.267	1101	1.04	38904.6971	1101
5340	-3.022	0.742	0.000	0.370	1101	1.06	38904.7714	1101
5340	-2.859	0.798	0.000	0.402	1101	1.15	38905.8083	1101
5340	-2.874	0.838	0.000	0.319	1101	1.08	38906.6675	1101
5340	-2.846	0.800	0.000	0.346	1101	1.04	38906.6990	1101
5340	-3.020	0.812	0.000	0.173	1101	1.07	38906.7726	1101
5340	-2.922	0.862	0.000	0.187	1101	1.16	38908.6342	1101
5340	-2.950	0.806	0.000	0.255	1101	1.08	38908.6610	1101
5340	-2.839	0.927	0.000	0.468	1101	1.06	38908.7602	1101
5340	-3.096	0.856	0.000	0.141	1101	1.10	38910.6470	1101
5340	-3.035	0.794	0.000	0.171	1101	1.06	38910.6694	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
5340	-3.128	0.843	0.000	0.118	1101	1.07	38910.7648	1101
5340	-2.992	0.809	0.000	0.231	1101	1.21	38911.6124	1101
5340	-2.931	0.782	0.000	0.187	1101	1.12	38911.6395	1101
5340	-2.936	0.837	0.000	0.246	1101	1.06	38911.6652	1101
5340	-3.212	0.806	0.000	0.196	1101	1.03	38911.7041	1101
5340	-3.267	0.821	0.000	0.185	1101	1.03	38911.7305	1101
5340	-2.937	0.767	0.000	0.171	1101	1.22	38912.6076	1101
5340	-2.794	0.687	0.000	0.535	1101	1.06	38912.6610	1101
5340	-2.961	0.805	0.000	0.161	1101	1.20	38913.6076	1101
5340	-2.960	0.778	0.000	0.175	1101	1.15	38916.6133	1101
5340	-3.100	0.893	0.000	0.179	1101	1.03	38916.6753	1101
5340	-3.069	0.875	0.000	0.187	1101	1.03	38916.7129	1101
5340	-2.975	0.809	0.000	0.230	1101	1.05	38916.7356	1101
5340	-2.925	0.808	0.000	0.058	1101	1.10	38918.6266	1101
5340	-3.039	0.828	0.000	0.189	1101	1.04	38918.7180	1101
5340	-3.099	0.859	0.000	0.201	1101	1.07	38918.7441	1101
5340	-3.022	0.784	0.000	0.143	1101	1.08	38921.6256	1101
5340	-2.954	0.771	0.000	0.273	1101	1.03	38921.6609	1101
5340	-2.986	0.744	0.000	0.220	1101	1.05	38921.7214	1101
5340	-2.908	0.837	0.000	0.322	1101	1.04	38922.6528	1101
5340	-3.018	0.887	0.000	0.149	1101	1.03	38923.6903	1101
5340	-3.041	0.887	0.000	0.082	1101	1.04	38924.6516	1101
5340	-2.879	0.803	0.000	0.400	1100	1.05	38925.6388	1101
5340	-3.151	0.905	0.000	0.179	1101	1.04	38926.6420	1101
5340	-3.030	0.830	0.000	0.120	1101	1.03	38930.6743	1101
5340	-2.665	0.809	0.000	0.190	1101	1.06	38931.6138	1101
5340	-3.030	0.884	0.000	0.148	1101	1.03	38936.6284	1101
5340	-2.943	0.854	0.000	-0.034	1100	1.04	38936.6694	1101
5340	-2.939	0.943	0.000	0.133	1101	1.18	39010.5312	1101
5340	-2.868	0.797	0.000	0.226	1101	1.39	39100.0638	1101
5340	-3.204	0.855	0.000	0.099	1101	1.20	39135.9993	1101
5340	-3.053	0.794	0.000	0.160	1101	1.20	39138.9918	1101
5384	4.689	0.370	0.000	0.000	1100	1.25	38556.7458	1101
5384	4.711	0.506	0.000	0.274	1101	1.18	38557.7095	1101
5429	0.695	0.821	1.246	0.000	1110	1.17	38481.7955	1110
5429	0.632	0.767	1.320	0.000	1110	1.01	38493.8402	3330
5429	0.670	0.778	1.239	0.000	1110	1.02	38501.8058	1110
5429	0.651	0.815	0.000	0.180	1101	1.02	38826.9161	1101
5429	0.714	0.800	0.000	0.098	1101	1.00	38865.8317	1101
5429	0.583	0.844	0.000	0.088	1101	1.01	38881.7819	1101
5435	2.582	0.070	0.148	0.000	1110	1.02	37768.8528	3330
5435	2.531	0.136	0.214	0.000	1110	1.01	37831.6594	1110
5435	2.595	0.103	0.168	0.000	1110	1.04	38404.0609	3330
5447	3.565	0.283	0.298	0.000	1110	1.15	38481.8032	1110
5447	3.529	0.202	0.420	0.000	1110	1.01	38493.8460	3330
5447	3.509	0.262	0.414	0.000	1110	1.02	38501.8126	1110
5447	3.463	0.278	0.000	0.263	1101	1.07	38556.7631	1101
5447	3.586	0.225	0.000	0.494	1101	1.13	38556.7839	1101
5487	2.842	0.290	0.416	0.000	1110	1.27	38425.0555	3330
5487	2.861	0.270	0.442	0.000	1110	1.28	38493.8518	3330
5487	2.980	0.214	0.329	0.000	1110	1.30	38501.8185	1110
5490	0.207	1.107	1.856	0.000	1110	1.01	38493.8562	3330
5490	0.213	1.134	1.864	0.000	1110	1.01	38501.8461	1110
5490	0.194	1.067	1.783	0.000	1110	1.02	38505.8062	1110
5490	0.172	1.159	0.000	0.173	1101	1.03	38826.9237	1101
5490	0.232	1.067	0.000	0.245	1101	1.02	38865.8260	1101
5490	0.969	1.139	0.000	0.178	1101	1.01	38881.7904	1101
5502	2.432	0.558	0.964	0.000	1110	1.04	38493.8623	3330
5502	2.464	0.607	0.967	0.000	1110	1.04	38501.8517	1110
5502	2.389	0.602	0.923	0.000	1110	1.05	38505.8148	1110
5505	0.007	0.686	1.101	0.000	1110	1.01	37768.8656	3330
5505	-0.002	0.638	1.062	0.000	1110	1.02	37778.8490	1110
5505	0.001	0.631	1.051	0.000	1110	1.03	37831.7149	1110
5505	-0.014	0.551	0.000	0.156	1101	1.02	38866.8246	1101
5505	0.628	0.748	0.000	-0.051	0101	1.01	38881.7995	1101
5530	4.106	0.268	0.428	0.000	1110	1.50	37768.8823	3330
5530	4.157	0.243	0.393	0.000	1110	1.58	37838.7118	3330
5531	2.455	0.068	0.122	0.000	1110	1.59	37768.9061	3330
5531	2.423	0.082	0.109	0.000	1110	1.65	37838.7247	3330
5568	3.000	0.802	0.000	0.304	1101	1.71	38508.8162	1101
5568	3.118	0.752	0.000	0.227	1101	1.88	38515.7581	1101
5589	-0.943	1.170	2.065	0.000	1110	1.20	38493.8672	3330
5589	-0.896	1.176	2.085	0.000	1110	1.20	38501.8582	1110
5589	-0.903	1.124	2.018	0.000	1110	1.21	38505.8218	1110
5589	-1.049	1.108	0.000	0.243	1101	1.21	38866.8293	1101
5589	-0.453	1.246	0.000	0.130	0101	1.20	38881.8088	1101
5601	1.960	0.635	1.052	0.000	1110	1.16	38425.0632	3330
5601	1.928	0.669	1.133	0.000	1110	1.16	38493.8805	3330
5601	1.964	0.676	1.079	0.000	1110	1.16	38501.8636	1110
5602	1.338	0.571	0.982	0.000	1110	1.01	38493.8852	3330
5602	1.389	0.566	0.932	0.000	1110	1.01	38501.8687	1110
5602	1.283	0.641	0.970	0.000	1110	1.02	38505.8273	1110

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
5603	-1.401	1.179	1.879	0.000	1110	1.82	37778.8565	1110
5603	-1.437	1.104	1.860	0.000	1110	2.02	37838.7301	3330
5603	-1.467	1.161	0.000	0.199	1101	1.86	38864.8762	1101
5603	-1.473	1.096	0.000	0.198	1101	1.88	38866.8873	1101
5603	-1.338	1.149	0.000	0.210	1101	1.86	38888.8032	1101
5603	-1.352	1.142	0.000	0.201	1101	1.95	38889.7636	1101
5603	-1.294	1.095	0.000	0.195	1101	1.87	38908.7423	1101
5603	-1.407	1.166	0.000	0.150	1101	1.90	38911.7148	1101
5616	1.603	0.769	1.327	0.000	1110	1.00	38493.8896	3330
5616	1.697	0.749	1.231	0.000	1110	1.01	38501.8743	1110
5616	1.624	0.793	1.278	0.000	1110	1.01	38505.8325	1110
5634	3.506	0.325	0.520	0.000	0110	1.01	38426.0438	3330
5634	3.913	0.218	0.465	0.000	1110	1.10	38496.9564	1110
5634	3.894	0.380	0.000	0.006	1101	1.01	38558.7260	1101
5681	1.178	0.631	1.040	0.000	1110	1.00	38493.8944	3330
5681	1.216	0.642	0.999	0.000	1110	1.01	38505.8366	1110
5681	1.477	0.737	1.021	0.000	1110	1.05	38521.7622	3330
5681	1.255	0.682	0.000	0.264	1101	1.00	38558.7337	1101
5685	2.885	-0.102	-0.169	0.000	1110	1.33	37778.8655	1110
5685	2.779	-0.030	-0.090	0.000	1110	1.37	37779.7856	1110
5685	2.877	-0.034	-0.130	0.000	1110	1.31	37801.7883	3330
5685	2.871	-0.046	-0.189	0.000	1110	1.37	37802.7233	1110
5685	2.999	-0.077	-0.188	0.000	1110	1.37	37809.7971	1110
5685	2.864	-0.065	-0.174	0.000	1110	1.85	37829.8153	3330
5685	2.827	-0.021	-0.114	0.000	1110	1.34	37837.7108	3330
5685	2.870	-0.018	-0.141	0.000	1110	1.34	38200.6932	1110
5685	2.828	-0.012	-0.158	0.000	1110	2.13	38391.0440	3330
5685	2.837	-0.082	-0.137	0.000	1110	2.06	38407.0044	3330
5685	2.828	-0.042	-0.178	0.000	1110	2.14	38419.9639	3330
5685	2.809	-0.020	-0.168	0.000	1110	2.43	38427.9284	1110
5685	2.871	-0.009	-0.187	0.000	1110	1.91	38427.9573	1110
5685	2.822	-0.041	-0.163	0.000	1110	2.09	38431.9345	3330
5685	2.889	-0.039	-0.186	0.000	1110	1.35	38480.9514	1110
5685	2.810	-0.020	-0.040	0.000	1110	2.07	38494.7637	3330
5685	0.000	-0.065	-0.104	0.000	0110	1.38	38494.9325	3330
5685	2.939	-0.050	-0.108	0.000	1110	1.35	38496.9058	1110
5685	2.907	-0.134	-0.220	0.000	1110	1.34	38498.8889	3330
5685	2.881	-0.089	-0.162	0.000	1110	1.72	38498.9852	3330
5685	2.729	0.036	-0.112	0.000	1110	2.00	38499.7543	1110
5685	2.735	-0.009	-0.058	0.000	1110	1.54	38500.7996	1110
5685	2.842	-0.067	-0.143	0.000	1110	1.37	38500.8470	1110
5685	2.927	0.018	-0.137	0.000	1110	1.44	38500.9337	1110
5685	2.898	-0.100	-0.181	0.000	1110	1.34	38501.8819	1110
5685	2.764	0.004	-0.072	0.000	1110	1.35	38505.8418	1110
5685	2.880	-0.044	-0.117	0.000	1110	1.90	38523.6958	3330
5685	2.832	-0.084	-0.145	0.000	1110	1.37	38569.7192	3330
5686	2.063	0.678	0.000	0.093	1101	2.16	38843.9272	1101
5744	0.697	0.676	1.143	0.000	1110	1.14	37830.7110	1110
5744	0.696	0.688	1.172	0.000	1110	1.13	38494.8662	3330
5744	0.666	0.690	1.207	0.000	1110	1.12	38505.8493	1110
5744	0.723	0.743	1.135	0.000	1110	1.15	38521.7701	3330
5744	0.614	0.721	0.000	0.135	1101	1.12	38923.7252	1101
5747	3.220	0.137	0.214	0.000	1110	1.00	38493.8993	3330
5747	3.280	0.004	0.129	0.000	1110	1.01	38505.8558	1110
5747	3.373	0.091	0.067	0.000	1110	1.04	38521.7801	3330
5747	3.330	0.161	0.000	0.104	1101	1.00	38558.7413	1101
5777	2.288	0.642	1.041	0.000	1110	1.35	38493.9044	3330
5777	2.217	0.612	1.004	0.000	1110	1.36	38505.8610	1110
5777	2.246	0.651	1.069	0.000	1110	1.36	38521.8526	3330
5787	1.524	0.569	1.062	0.000	1110	1.51	38494.8718	3330
5787	1.488	0.658	1.092	0.000	1110	1.47	38505.8668	1110
5787	1.569	0.674	1.026	0.000	1110	1.48	38523.8434	3330
5793	2.167	0.047	0.035	0.000	1110	1.05	38200.6607	1110
5793	2.177	0.069	0.083	0.000	1110	1.00	38493.9098	3330
5793	2.153	0.036	0.081	0.000	1110	1.00	38505.8756	1110
5793	2.219	0.107	0.035	0.000	1110	1.03	38521.7954	3330
5824	2.141	0.777	0.000	0.199	1101	1.81	38888.8111	1101
5824	2.077	0.807	0.000	0.089	1101	1.95	38889.7729	1101
5824	2.098	0.805	0.000	0.010	1101	1.83	38908.7498	1101
5824	1.966	0.883	0.000	0.068	1101	1.90	38911.7233	1101
5854	0.091	0.671	1.118	0.000	1110	1.12	37778.8885	1110
5854	0.106	0.664	1.080	0.000	1110	1.23	37802.7125	1110
5854	0.216	0.668	1.053	0.000	1110	1.12	37809.8042	1110
5854	0.053	0.657	1.127	0.000	1110	1.10	37830.6997	1110
5854	0.097	0.697	1.136	0.000	1110	1.11	37837.7215	3330
5854	0.041	0.726	1.143	0.000	1110	1.13	38200.6854	1110
5854	0.073	0.757	0.000	0.042	1101	1.11	38511.8674	1101
5854	0.075	0.645	0.000	0.075	1101	1.18	38963.6684	1101
5854	0.006	0.725	0.000	0.118	1101	1.11	38564.7109	1101
5854	0.043	0.763	0.000	0.039	1101	1.11	38923.7332	1101
5868	3.020	0.325	0.579	0.000	1110	1.13	38494.8773	3330
5868	3.115	0.315	0.554	0.000	1110	1.11	38496.9252	1110
5868	3.027	0.270	0.522	0.000	1110	1.10	38505.8803	1110

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
5868	2.996	0.400	0.616	0.000	1110	1.11	38521.8587	3330
5868	3.080	0.364	0.000	0.036	1101	1.10	38532.8163	1101
5879	0.049	1.011	1.680	0.000	1110	1.05	38494.8817	3330
5879	0.034	0.983	1.661	0.000	1110	1.03	38505.8854	1110
5879	0.066	1.055	1.723	0.000	1110	1.04	38521.8657	3330
5879	-0.019	1.104	0.000	0.202	1101	1.04	38864.8815	1101
5879	0.012	1.104	0.000	0.130	1101	1.03	38923.7398	1101
5902	0.000	0.163	0.000	0.000	0100	1.68	38843.9326	1101
5908	1.768	0.599	1.070	0.000	1110	1.54	38494.9392	3330
5908	1.753	0.649	1.054	0.000	1110	1.53	38523.8495	3330
5908	1.842	0.850	0.000	0.283	1101	1.52	38558.7497	1101
5914	3.049	0.419	0.723	0.000	1110	1.03	38494.8868	3330
5914	3.146	0.413	0.636	0.000	1110	1.03	38521.8722	3330
5914	3.143	0.375	0.591	0.000	1110	1.02	38523.8545	3330
5924	1.605	1.009	0.000	0.253	1101	1.03	38888.8215	1101
5924	1.553	1.033	0.000	0.146	1101	1.17	38889.7481	1101
5924	1.565	1.039	0.000	0.175	1101	1.02	38906.7836	1101
5924	1.425	1.007	0.000	0.254	1101	1.03	38908.8092	1101
5932	0.860	1.102	0.000	0.227	1101	1.09	38888.7700	1101
5932	0.813	1.084	0.000	0.262	1101	1.24	38889.7174	1101
5932	0.771	1.105	0.000	0.160	1101	1.03	38906.8238	1101
5932	0.647	1.067	0.000	0.276	1101	1.05	38908.8349	1101
5933	2.640	0.294	0.515	0.000	1110	1.05	38494.8986	3330
5933	2.683	0.266	0.446	0.000	1110	1.05	38523.8598	3330
5947	1.291	0.759	1.225	0.000	1110	1.11	37802.7175	1110
5947	1.323	0.716	1.238	0.000	1110	1.01	37830.7050	1110
5947	1.278	0.816	1.287	0.000	1110	1.05	38200.6754	1110
5947	1.269	0.774	1.280	0.000	1110	1.01	38494.9032	3330
5947	1.368	0.843	0.000	0.147	1101	1.00	38511.8791	1101
5947	1.266	0.841	0.000	0.192	1101	1.01	38564.7199	1101
5953	2.743	-0.104	-0.265	0.000	1110	1.73	37778.9028	1110
5953	2.751	-0.208	-0.274	0.000	1110	1.75	38494.9084	3330
5953	2.707	-0.136	-0.237	0.000	1110	1.76	38523.8649	3330
5953	2.726	-0.063	0.000	-0.126	1101	1.99	38864.8411	1101
5953	2.840	-0.181	0.000	-0.221	1101	1.87	38865.8554	1101
5953	2.735	-0.264	0.000	0.105	1101	1.74	38866.8973	1101
5958	4.908	1.260	0.000	0.347	1101	1.05	38888.7913	1101
5958	4.758	1.296	0.000	0.016	1101	1.21	38889.7362	1101
5958	4.619	1.179	0.000	0.254	1101	1.06	38906.8553	1101
5958	4.706	1.220	0.000	0.366	1101	1.01	38908.7765	1101
5958	4.719	1.203	0.000	0.089	1101	1.17	38911.6855	1101
5958	4.686	1.174	0.000	-0.321	1101	1.09	38916.6964	1101
5958	4.563	1.581	0.000	0.000	1100	1.04	38916.7238	1101
5958	4.608	1.149	0.000	0.090	1101	1.04	38921.7110	1101
5984	2.764	-0.075	-0.155	0.000	1110	1.63	38494.9165	3330
5984	2.642	-0.071	-0.077	0.000	1110	1.65	38523.8712	3330
5984	2.836	-0.083	0.000	0.218	1101	1.63	38558.7567	1101
5984	2.754	-0.093	0.000	-0.045	1101	1.81	38864.8514	1101
5984	2.871	-0.148	0.000	-0.051	1101	1.73	38865.8624	1101
5984	2.719	-0.177	0.000	0.011	1101	1.63	38866.9131	1101
5993	4.106	0.005	0.000	-0.084	1101	1.73	38865.8712	1101
5993	3.946	-0.030	0.000	-0.129	1101	1.67	38866.9227	1101
5993	4.053	-0.056	0.000	-0.085	1101	2.08	38869.9908	1101
5997	2.323	0.515	0.829	0.000	1110	1.67	38494.9247	3330
5997	2.334	0.519	0.872	0.000	1110	1.70	38523.8771	3330
6018	2.302	0.677	1.089	0.000	1110	1.00	38494.9291	3330
6018	2.405	0.714	0.000	0.144	1101	1.09	38532.7497	1101
6018	2.431	0.700	0.000	0.339	1101	1.00	38558.7641	1101
6027	3.756	0.071	0.000	0.124	1101	1.76	38864.8605	1101
6027	3.865	0.011	0.000	-0.069	1101	1.67	38865.8808	1101
6027	3.742	0.014	0.000	0.057	1101	1.63	38866.9327	1101
6027	3.733	0.053	0.000	-0.018	1101	1.76	38869.9627	1101
6056	-1.241	1.004	1.673	0.000	1110	1.25	37778.9159	1110
6056	-1.263	0.961	1.635	0.000	1110	1.24	38494.9464	3330
6056	-1.242	1.075	0.000	0.143	1101	1.26	38556.7932	1101
6056	-1.176	1.074	0.000	0.243	1101	1.24	38558.7721	1101
6056	-1.167	0.966	0.000	0.051	1101	1.26	38881.8457	1101
6075	0.969	0.585	0.972	0.000	1110	1.28	37778.9225	1110
6075	0.970	0.564	0.969	0.000	1110	1.26	38494.9508	3330
6075	1.097	0.605	0.000	0.025	1101	1.27	38881.8516	1101
6075	0.925	0.675	0.000	0.037	1101	1.25	38923.7555	1101
6084	2.415	0.099	0.167	0.000	1110	1.95	37778.9338	1110
6084	2.333	0.060	0.000	-0.018	1101	2.06	38864.8694	1101
6084	2.552	-0.006	0.000	-0.008	1101	1.94	38865.8896	1101
6084	2.366	0.075	0.000	-0.029	1101	2.12	38869.9758	1101
6092	4.448	-0.240	-0.321	0.000	1110	1.25	38301.5926	1110
6092	4.273	-0.176	0.000	-0.020	1101	1.41	38668.6188	1101
6092	4.508	-0.276	0.000	0.138	1101	1.53	38669.6345	1101

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
6095	2.990	0.140	0.300	0.000	1110	1.03	38494.9543	3330
6095	2.910	0.282	0.000	0.000	1100	1.03	38533.8256	1101
6095	2.959	0.211	0.000	0.133	1101	1.03	38559.7563	1101
6104	2.187	0.591	1.079	0.000	1110	1.65	38494.9597	3330
6104	2.185	0.566	1.039	0.000	1110	1.66	38523.8863	3330
6119	-0.631	1.443	0.000	0.627	1101	1.10	38889.7977	1101
6119	-0.763	1.457	0.000	0.611	1101	1.03	38905.8184	1101
6119	-0.781	1.436	0.000	0.537	1101	1.12	38906.8860	1101
6119	-0.889	1.443	0.000	0.538	1101	1.09	38908.8698	1101
6132	0.622	0.593	0.890	0.000	1110	1.21	37777.8233	3330
6132	0.638	0.604	0.985	0.000	1110	1.15	38521.8857	3330
6132	0.535	0.558	0.000	-0.098	1100	1.15	38559.7621	1101
6132	0.528	0.631	0.000	0.170	1101	1.17	38563.7056	1101
6132	0.596	0.512	0.000	0.120	1101	1.15	38923.7710	1101
6134	-3.779	1.155	1.980	0.000	1110	1.83	37831.7358	1110
6134	-3.882	1.166	0.000	0.336	1101	1.92	38564.7559	1101
6134	-3.655	1.056	0.000	0.252	1101	1.01	38566.7474	1101
6134	-3.898	1.269	0.000	0.216	1101	1.93	38923.7793	1101
6146	-2.078	1.287	2.351	0.000	1110	1.02	38521.8908	3330
6146	-1.927	1.189	0.000	0.311	1101	1.03	38534.7990	1101
6146	-2.016	1.257	0.000	0.024	1101	1.03	38563.7195	1101
6147	2.232	0.523	0.929	0.000	1110	1.54	38523.8906	3330
6147	2.240	0.596	0.000	0.076	1101	1.54	38564.7304	1101
6147	2.418	0.686	0.000	0.053	1101	1.05	38566.7301	1101
6148	0.586	0.619	0.971	0.000	1110	1.01	37769.9032	1110
6148	0.614	0.611	0.998	0.000	1110	1.01	37828.7469	1110
6159	0.000	0.000	1.658	0.000	0010	1.09	38521.9022	3330
6159	1.163	0.955	0.000	0.083	1101	1.07	38559.7850	1101
6159	1.254	1.058	0.000	0.185	1101	1.07	38563.7540	1101
6175	2.614	-0.043	-0.145	0.000	1110	1.43	37778.9477	1110
6175	2.581	-0.020	-0.086	0.000	1110	1.35	37779.8626	1110
6175	2.738	-0.014	-0.142	0.000	1110	1.38	37799.7926	1110
6175	2.607	-0.036	-0.066	0.000	1110	1.35	37805.7885	1110
6175	2.621	-0.034	-0.084	0.000	1110	1.33	37837.7160	3330
6175	2.640	0.018	-0.077	0.000	1110	1.93	38284.6427	1110
6175	2.521	0.027	-0.049	0.000	1110	2.50	38296.6405	1110
6175	1.972	-0.024	-0.198	0.000	1110	2.25	38297.6267	0000
6175	2.767	-0.129	0.000	0.128	1101	1.47	38512.8437	1101
6175	2.617	-0.035	0.000	0.000	1100	1.53	38513.8267	1101
6175	2.619	0.001	0.000	-0.061	1101	1.37	38515.8839	1101
6175	2.603	-0.039	0.000	0.007	1101	1.43	38532.8007	1101
6175	2.687	0.027	0.000	-0.012	1101	1.36	38533.8420	1101
6212	1.300	0.358	0.607	0.000	1110	1.00	37768.9296	3330
6212	1.311	0.393	0.679	0.000	1110	1.00	38493.9503	3330
6212	1.301	0.440	0.000	0.175	1101	1.01	38558.8001	1101
6212	0.000	0.391	0.000	0.147	0101	1.01	38564.7409	1101
6220	1.347	0.582	0.997	0.000	1110	1.01	38493.9543	3330
6220	1.339	0.704	0.000	0.163	1101	1.02	38558.8056	1101
6220	1.371	0.619	0.000	0.036	1101	1.01	38566.7385	1101
6299	0.593	0.739	1.161	0.000	1110	1.09	37779.8700	1110
6299	0.645	0.695	1.171	0.000	1110	1.09	38493.9582	3330
6299	0.703	0.672	0.000	0.084	1101	1.09	38566.7564	1101
6337	0.511	1.068	1.764	0.000	1110	1.05	38493.9625	3330
6337	0.444	1.113	0.000	-0.003	1101	1.07	38533.8326	1101
6337	0.611	1.041	0.000	0.170	1101	1.05	38566.7660	1101
6378	2.238	0.032	0.053	0.000	1110	1.45	37768.9422	3330
6378	2.283	0.058	0.064	0.000	1110	1.50	38493.9663	3330
6378	2.271	0.014	0.031	0.000	1110	1.50	38523.8972	3330
6396	3.498	-0.086	-0.129	0.000	1110	1.20	38493.9705	3330
6396	3.479	-0.070	0.000	0.000	1100	1.20	38566.7777	1101
6406	-3.504	1.262	2.329	0.000	1110	1.06	37768.9777	3330
6406	-3.516	1.252	2.305	0.000	1110	1.08	37770.8910	1110
6410	2.833	0.131	0.170	0.000	1110	1.04	37768.9911	3330
6410	2.805	0.122	0.135	0.000	1110	1.03	37779.8788	1110
6418	-0.011	0.908	1.448	0.000	1110	1.00	38493.9743	3330
6418	-0.015	0.838	1.394	0.000	1110	1.00	38523.9035	3330
6453	3.820	-0.006	-0.273	0.000	1110	1.86	37767.9091	3330
6453	3.874	-0.126	-0.325	0.000	1110	1.85	38493.9790	3330
6453	3.841	-0.127	-0.288	0.000	1110	1.85	38523.9085	3330
6498	1.012	0.833	1.481	0.000	1110	1.13	38493.9845	3330
6498	1.036	0.887	0.000	0.116	1101	1.13	38566.7858	1101
6526	1.162	0.896	1.433	0.000	1110	1.01	38493.9882	3330
6526	1.183	0.842	1.391	0.000	1110	1.05	38569.7315	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
6536	0.725	0.527	0.902	0.000	1110	1.06	38493.9917	3330
6536	0.800	0.513	0.858	0.000	1110	1.08	38569.7425	3330
6556	1.655	0.133	0.223	0.000	1110	1.06	38493.9951	3330
6556	1.696	0.135	0.000	0.000	1100	1.11	38637.6503	1101
6556	1.618	0.126	0.000	0.000	1100	1.07	38638.6189	1101
6603	0.236	0.662	1.107	0.000	1110	3.07	37767.7712	3330
6603	0.187	0.689	1.152	0.000	1110	1.14	37767.9307	3330
6603	0.240	0.672	1.101	0.000	1110	1.73	37768.8222	3330
6603	0.236	0.709	1.137	0.000	1110	1.12	37768.9553	3330
6603	0.113	0.755	1.184	0.000	1110	1.33	37769.8678	1110
6603	0.214	0.678	1.113	0.000	1110	1.37	37770.8582	1110
6603	0.298	0.731	1.114	0.000	1110	1.33	37799.7856	1110
6603	0.423	0.642	1.013	0.000	1110	1.16	37799.8326	1110
6603	0.275	0.687	1.096	0.000	1110	1.25	37801.7983	3330
6603	0.203	0.692	1.147	0.000	1110	1.40	37803.7626	1110
6603	0.231	0.702	1.144	0.000	1110	1.11	37803.8753	1110
6603	0.187	0.675	1.110	0.000	1110	1.22	37805.7957	1110
6603	0.248	0.689	1.131	0.000	1110	1.13	37828.7712	1110
6603	0.205	0.701	1.155	0.000	1110	1.15	37828.8411	1110
6603	0.214	0.671	1.121	0.000	1110	1.15	37829.7580	3330
6603	0.219	0.682	1.117	0.000	1110	1.20	37831.7292	1110
6603	0.238	0.699	1.113	0.000	1110	1.11	37831.7904	1110
6603	0.269	0.692	1.117	0.000	1110	1.30	37831.8802	1110
6603	0.197	0.710	1.148	0.000	1110	1.15	37832.7477	1110
6603	0.186	0.691	1.142	0.000	1110	1.12	37832.8021	1110
6603	0.241	0.658	1.117	0.000	1110	1.13	37838.7471	3330
6603	0.256	0.726	1.093	0.000	1110	1.23	38227.7940	1110
6603	0.226	0.715	1.138	0.000	1110	1.28	38303.5990	1110
6603	0.229	0.704	1.155	0.000	1110	1.51	38304.6354	1110
6603	0.268	0.688	1.076	0.000	1110	1.33	38309.5937	1110
6603	0.237	0.686	1.129	0.000	1110	2.16	38416.0442	3330
6603	0.222	0.677	1.077	0.000	1110	2.14	38425.0208	3330
6603	0.203	0.697	1.084	0.000	1110	2.24	38426.0133	3330
6603	0.166	0.722	1.172	0.000	1110	2.29	38493.8256	3330
6603	0.189	0.713	1.146	0.000	1110	2.52	38494.8146	3330
6603	0.236	0.705	1.091	0.000	1110	1.13	38498.9755	3330
6603	0.207	0.757	1.109	0.000	1110	1.69	38500.8423	1110
6603	0.307	0.711	1.108	0.000	1110	1.13	38500.9772	1110
6603	0.189	0.651	1.109	0.000	1110	1.24	38505.8975	1110
6603	0.143	0.749	0.000	0.078	1101	1.21	38512.8885	1101
6603	0.209	0.714	1.119	0.000	1110	1.17	38521.8798	3330
6603	0.240	0.658	1.107	0.000	1110	1.14	38521.9403	3330
6603	0.111	0.706	1.244	0.000	1110	2.04	38523.7553	3330
6603	0.175	0.645	1.135	0.000	1110	1.13	38523.9135	3330
6603	0.232	0.675	1.090	0.000	1110	1.17	38569.8323	3330
6603	0.222	0.716	0.000	0.006	1101	1.15	38627.6589	1101
6603	0.160	0.722	0.000	0.151	1101	1.18	38629.6764	1101
6603	0.291	0.693	0.000	0.093	1101	1.15	38630.6521	1101
6603	0.243	0.667	0.000	0.078	1101	1.13	38638.6122	1101
6603	0.238	0.693	0.000	0.078	1101	1.15	38639.6326	1101
6603	0.229	0.723	0.000	0.062	1101	2.38	38675.6772	3303
6603	0.255	0.683	0.000	0.058	1101	2.34	38676.6727	3303
6603	0.221	0.669	0.000	0.065	1101	2.19	38694.6174	3303
6603	0.254	0.757	0.000	-0.014	1101	1.33	38823.0073	1101
6603	0.179	0.702	0.000	0.087	1101	1.20	38826.0324	1101
6603	0.159	0.703	0.000	0.111	1101	1.31	38864.8966	1101
6603	0.278	0.621	0.000	0.163	1101	1.17	38865.9393	1101
6603	0.128	0.723	0.000	0.059	1101	1.13	38874.9625	1101
6603	0.144	0.851	0.000	-0.035	1101	1.17	38875.9077	1101
6603	0.098	0.756	0.000	0.093	1101	1.14	38876.9260	1101
6603	0.276	0.673	0.000	0.180	1101	1.17	38877.9060	1101
6603	0.364	0.738	0.000	0.134	1101	1.23	38881.8705	1101
6603	0.310	0.681	0.000	0.114	1101	1.24	38888.8485	1101
6603	0.428	0.605	0.000	0.364	1101	1.14	38889.8900	1101
6603	0.278	0.678	0.000	0.177	1101	1.17	38905.8271	1101
6603	0.230	0.721	0.000	0.102	1101	1.22	38906.8055	1101
6603	0.339	0.637	0.000	0.167	1101	1.17	38908.8222	1101
6603	0.523	0.681	0.000	0.332	1101	1.28	38910.7766	1101
6603	0.163	0.702	0.000	0.043	1101	1.48	38911.7391	1101
6603	0.249	0.678	0.000	0.112	1101	1.32	38916.7522	1101
6603	0.220	0.671	0.000	0.104	1101	1.38	38921.7272	1101
6603	0.258	0.641	0.000	0.076	1101	1.51	38922.7058	1101
6603	0.162	0.720	0.000	0.071	1101	1.21	38923.7627	1101
6603	0.400	0.668	0.000	0.018	1101	1.13	38924.8193	1101
6603	0.391	0.706	0.000	0.297	1101	1.18	38925.7694	1101
6603	0.409	0.768	0.000	0.054	1101	1.13	38926.8023	1101
6603	0.215	0.690	0.000	0.121	1101	1.14	38931.8216	1101
6603	0.288	0.663	0.000	0.162	1101	1.29	38936.7043	1101
6603	0.297	0.681	0.000	0.152	1101	1.16	38936.7492	1101
6603	0.285	0.689	0.000	0.105	1101	1.30	39037.5953	1101
6623	1.764	0.382	0.680	0.000	1110	1.05	37830.7448	1110
6623	1.742	0.460	0.742	0.000	1110	1.00	38493.9979	3330
6623	1.810	0.375	0.641	0.000	1110	1.00	38523.9204	3330
6688	1.010	0.798	1.247	0.000	1110	1.10	38521.9080	3330
6688	1.064	0.729	1.241	0.000	1110	1.10	38523.9258	3330
6695	1.026	0.829	1.301	0.000	1110	1.00	38494.0015	3330
6695	1.013	0.848	1.273	0.000	1110	1.01	38521.9135	3330
6695	1.031	0.739	1.297	0.000	1110	1.01	38523.9421	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
6698	1.138	0.604	0.971	0.000	1110	1.40	37767.9233	3330
6698	1.137	0.512	0.992	0.000	1110	1.35	38521.9246	3330
6698	1.094	0.577	1.006	0.000	1110	1.38	38523.9609	3330
6703	1.626	0.556	0.834	0.000	1110	1.00	38494.0049	3330
6703	1.630	0.592	0.923	0.000	1110	1.00	38521.9193	3330
6703	1.605	0.582	0.950	0.000	1110	1.01	38523.9541	3330
6705	-1.235	0.917	1.554	0.000	1110	1.06	38521.9327	3330
6705	-1.250	0.866	1.443	0.000	1110	1.06	38523.9470	3330
6705	-1.340	0.967	0.000	0.179	1101	1.06	38537.8664	1101
6705	-1.287	0.926	0.000	0.192	1101	1.08	38537.9339	1101
6705	-1.372	0.994	0.000	0.101	1101	1.11	38538.8214	1101
6705	-1.343	0.983	0.000	0.115	1101	1.10	38538.9450	1101
6705	-1.406	0.995	0.000	0.228	1101	1.06	38542.8951	1101
6705	-1.379	1.045	0.000	0.097	1101	1.07	38543.8379	1101
6705	-1.193	0.890	0.000	0.161	1101	1.06	38544.8559	1101
6705	-1.384	0.967	0.000	0.173	1101	1.07	38544.8990	1101
6705	-1.263	0.926	0.000	0.094	1101	1.10	38545.8094	1101
6705	-1.322	1.000	0.000	0.191	1101	1.07	38545.8982	1101
6705	-1.274	0.971	0.000	0.141	1101	1.06	38546.8622	1101
6705	-1.329	0.982	0.000	0.093	1101	1.11	38547.7938	1101
6705	-1.408	1.050	0.000	0.144	1101	1.06	38547.8812	1101
6705	-1.337	0.946	0.000	0.130	1101	1.06	38556.8232	1101
6705	-1.285	0.949	0.000	0.084	1101	1.07	38557.7983	1101
6705	-1.316	1.009	0.000	0.254	1101	1.09	38558.7792	1101
6705	-1.294	1.015	0.000	0.228	1101	1.07	38558.8559	1101
6705	-1.402	1.078	0.000	0.123	1101	1.13	38559.7495	1101
6705	-1.406	0.931	0.000	0.048	1101	1.07	38559.7912	1101
6705	-1.405	0.939	0.000	0.112	1101	1.08	38559.8674	1101
6705	-1.335	0.894	0.000	0.253	1101	1.06	38564.8230	1101
6705	-1.309	0.956	0.000	0.122	1101	1.07	38565.7821	1101
6705	-1.311	0.937	0.000	0.123	1101	1.06	38566.8102	1101
6705	-1.291	0.924	0.000	0.237	1101	1.12	38569.7266	1101
6705	-1.389	0.919	0.000	0.186	1101	1.09	38570.7479	1101
6705	-1.392	0.985	0.000	0.238	1101	1.06	38631.6232	1101
6705	-1.395	1.015	0.000	0.101	1101	1.06	38637.6204	1101
6705	-1.219	0.899	0.000	0.239	1101	1.31	38669.6630	1101
6705	-1.378	0.916	0.000	0.223	1101	1.07	38888.8950	1101
6705	-1.324	0.932	0.000	0.265	1101	1.11	38889.8596	1101
6705	-1.298	0.923	0.000	0.223	1101	1.08	38905.8360	1101
6705	-1.400	0.935	0.000	0.150	1101	1.08	38906.8380	1101
6705	-1.289	0.911	0.000	0.215	1101	1.06	38908.8552	1101
6705	-1.378	0.880	0.000	0.202	1101	1.06	38910.8423	1101
6705	-1.382	0.929	0.000	0.071	1101	1.21	38911.7539	1101
6705	-1.342	0.915	0.000	0.135	1101	1.17	38918.7503	1101
6705	-1.294	0.864	0.000	0.233	1101	1.11	38922.7685	1101
6707	3.203	0.342	0.000	0.376	1101	1.01	38556.8137	1101
6707	3.249	0.308	0.000	0.274	1101	1.03	38557.7893	1101
6736	5.790	-0.057	0.000	0.000	1100	1.78	37829.7869	3330
6736	5.916	-0.082	0.000	0.000	1100	1.84	37831.7644	1110
6736	5.827	-0.058	0.000	0.000	1100	1.86	38532.8785	1101
6746	0.632	0.657	1.061	0.000	1110	2.18	37767.9407	3330
6746	0.666	0.654	0.974	0.000	1110	2.39	38569.8590	3330
6752	1.893	0.577	0.926	0.000	1110	1.16	38521.9496	3330
6752	1.862	0.649	0.889	0.000	1110	1.25	38569.8692	3330
6869	1.039	0.584	0.972	0.000	1110	1.23	38521.9559	3330
6869	1.064	0.616	0.957	0.000	1110	1.39	38569.8942	3330
6872	1.758	0.749	1.196	0.000	1110	1.01	38521.9623	3330
6872	1.716	0.748	1.230	0.000	1110	1.06	38569.8815	3330
6895	1.179	0.772	0.000	0.153	1101	1.03	38637.6555	1101
6895	1.139	0.747	0.000	0.000	1100	1.02	38638.6227	1101
6895	1.156	0.771	0.000	0.130	1101	1.04	38639.6651	1101
6913	0.381	0.658	1.179	0.000	1110	1.82	37767.9753	3330
7001	0.042	0.020	0.001	0.000	1110	1.57	37768.8304	3330
7001	0.027	0.043	0.019	0.000	1110	1.03	37768.9637	3330
7001	0.070	-0.005	-0.005	0.000	1110	1.41	37778.8235	1110
7001	0.050	-0.007	-0.037	0.000	1110	1.72	37801.7258	3330
7001	0.037	0.014	-0.024	0.000	1110	1.08	37801.8429	3330
7001	0.016	0.022	-0.015	0.000	1110	1.17	37803.8045	1110
7001	0.031	0.041	0.018	0.000	1110	1.02	37803.8809	1110
7001	0.034	0.018	0.051	0.000	1110	1.06	37803.9646	1110
7001	-0.015	-0.003	-0.016	0.000	1110	1.04	37805.8580	1110
7001	-0.036	0.053	0.049	0.000	1110	1.09	37828.7632	1110
7001	0.045	0.020	0.010	0.000	1110	1.01	37828.8470	1110
7001	0.034	0.033	0.036	0.000	1110	1.21	37828.9505	1110
7001	-0.017	0.015	0.035	0.000	1110	1.11	37829.7520	3330
7001	0.004	-0.001	0.032	0.000	1110	1.03	37829.8689	3330
7001	0.039	0.034	0.031	0.000	1110	1.18	37829.9421	3330
7001	0.062	-0.024	-0.026	0.000	1110	1.34	37830.6922	1110
7001	0.009	0.041	0.030	0.000	1110	1.45	37831.6740	1110
7001	0.025	0.023	-0.005	0.000	1110	1.27	37831.7038	1110
7001	0.032	0.023	0.026	0.000	1110	1.06	37831.8875	1110
7001	0.006	0.002	0.011	0.000	1110	1.01	37832.8094	1110
7001	0.030	0.004	0.014	0.000	1110	1.10	37837.7338	3330
7001	0.023	0.026	0.021	0.000	1110	1.02	37837.8457	3330
7001	-0.004	0.036	0.016	0.000	1110	1.04	37838.8538	3330

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
7001	0.046	0.043	0.037	0.000	1110	1.20	37838.9219	3330
7001	-0.001	0.049	0.039	0.000	1110	1.07	38200.7689	1110
7001	0.065	-0.020	0.013	0.000	1110	1.01	38226.7573	1110
7001	0.057	0.008	-0.002	0.000	1110	1.01	38227.7766	1110
7001	0.063	0.021	0.005	0.000	1110	1.15	38228.8602	1110
7001	0.060	-0.024	-0.001	0.000	1110	1.85	38260.8740	3330
7001	0.020	0.020	0.045	0.000	1110	1.13	38284.7008	1110
7001	0.001	-0.070	-0.053	0.000	1110	1.07	38296.6458	1110
7001	0.081	-0.068	-0.138	0.000	1110	1.23	38298.6923	1110
7001	-0.024	0.046	0.068	0.000	1110	1.01	38299.5889	1110
7001	-0.019	-0.014	-0.015	0.000	1110	1.01	38301.5782	1110
7001	0.004	0.046	-0.082	0.000	1110	1.11	38301.6462	1110
7001	0.020	0.020	0.045	0.000	1110	1.01	38302.5807	1110
7001	0.020	0.020	0.045	0.000	1110	1.21	38302.6758	1110
7001	-0.039	0.030	0.097	0.000	1110	1.02	38303.5875	1110
7001	0.031	0.016	0.044	0.000	1110	1.07	38304.6211	1110
7001	0.087	-0.037	-0.092	0.000	1110	1.04	38305.5984	1110
7001	0.029	0.010	0.009	0.000	1110	1.06	38306.6140	1110
7001	-0.021	0.016	0.008	0.000	1110	1.02	38307.5799	1110
7001	0.058	0.015	-0.024	0.000	1110	1.03	38309.5799	1110
7001	-0.027	0.039	-0.001	0.000	1110	1.09	38310.6141	1110
7001	0.060	-0.001	0.023	0.000	1110	1.02	38311.5690	1110
7001	-0.028	0.039	0.031	0.000	1110	1.03	38317.5576	1110
7001	0.008	-0.019	0.028	0.000	1110	1.04	38320.5612	1110
7001	0.074	-0.017	-0.089	0.000	1110	1.14	38324.5971	1110
7001	0.026	0.003	-0.042	0.000	1110	1.67	38338.6456	3330
7001	0.011	0.054	0.034	0.000	1110	2.10	38416.0331	3330
7001	0.066	0.023	0.007	0.000	1110	2.04	38431.9929	3330
7001	0.008	0.016	0.037	0.000	1110	2.12	38493.8191	3330
7001	0.002	0.049	0.010	0.000	1110	1.02	38494.0097	3330
7001	0.034	0.035	0.030	0.000	1110	1.29	38500.8825	1110
7001	0.136	0.042	0.023	0.000	1110	1.01	38500.9992	1110
7001	-0.244	0.047	0.000	0.015	1101	1.07	38508.9271	1101
7001	0.029	0.019	0.000	0.109	1101	1.09	38511.9115	1101
7001	-0.164	0.039	0.000	0.047	1101	1.01	38511.9645	1101
7001	0.046	0.006	0.000	0.084	1101	1.27	38512.8552	1101
7001	0.000	-0.070	0.000	0.000	0100	1.10	38512.9014	1101
7001	-0.033	0.049	0.000	0.045	1101	1.03	38515.9306	1101
7001	0.027	0.036	0.049	0.000	1110	2.22	38521.7372	3330
7001	0.062	0.028	0.035	0.000	1110	1.01	38521.9793	3330
7001	0.113	0.017	-0.031	0.000	1110	1.92	38523.7492	3330
7001	0.031	0.010	0.004	0.000	1110	1.01	38523.9674	3330
7001	0.008	-0.022	0.000	0.044	1101	1.01	38532.9187	1101
7001	0.109	-0.117	0.000	0.135	1101	1.18	38533.8173	1101
7001	-0.037	0.091	0.000	0.004	1101	1.01	38533.9114	1101
7001	-0.018	-0.034	0.000	-0.052	1101	1.64	38534.7425	1101
7001	0.031	-0.015	0.000	0.074	1101	1.02	38536.8923	1101
7001	0.050	-0.016	0.000	0.022	1101	1.01	38537.9011	1101
7001	-0.051	0.027	0.000	0.103	1101	1.02	38538.8812	1101
7001	-0.045	0.034	0.000	0.085	1101	1.01	38542.9185	1101
7001	0.045	0.019	0.000	-0.011	1101	1.01	38543.8869	1101
7001	-0.073	0.056	0.000	0.109	1101	1.01	38544.8859	1101
7001	0.017	-0.021	0.000	0.102	1101	1.04	38545.8476	1101
7001	0.033	-0.016	0.000	0.171	1101	1.03	38546.8517	1101
7001	-0.005	0.005	0.000	0.029	1101	1.08	38547.8168	1101
7001	-0.037	0.057	0.000	0.018	1101	1.01	38556.8690	1101
7001	0.007	0.034	0.000	0.001	1101	1.02	38557.8872	1101
7001	-0.029	-0.044	0.000	0.083	1101	1.06	38564.9015	1101
7001	0.047	-0.024	0.000	0.107	1101	1.06	38569.7681	1101
7001	-0.005	0.059	0.039	0.000	1110	1.01	38569.8450	3330
7001	0.007	-0.069	0.000	0.091	1101	1.01	38570.8023	1101
7001	-0.007	-0.022	0.000	0.040	1101	1.01	38627.6504	1101
7001	-0.015	-0.010	0.000	0.134	1101	1.01	38629.6699	1101
7001	-0.031	0.027	0.000	0.034	1101	1.01	38630.6581	1101
7001	-0.066	0.034	0.000	0.047	1101	1.03	38631.6177	1101
7001	-0.025	-0.062	0.000	0.029	1101	1.02	38631.6274	1101
7001	-0.039	0.006	0.000	0.029	1101	1.02	38637.6109	1101
7001	0.064	-0.045	0.000	0.088	1101	1.02	38637.6776	1101
7001	0.086	-0.091	0.000	-0.010	1101	1.02	38638.6062	1101
7001	0.065	-0.016	0.000	0.041	1101	1.01	38639.6494	1101
7001	0.035	-0.055	0.000	0.032	1101	1.01	38640.6248	1101
7001	0.051	0.004	0.000	0.014	1101	1.26	38666.6916	1101
7001	0.095	-0.025	0.000	0.050	1101	1.40	38667.7126	1101
7001	0.091	-0.084	0.000	0.083	1101	1.02	38669.5901	1101
7001	-0.023	0.003	0.000	0.114	1101	1.02	38670.5802	1101
7001	0.127	-0.065	0.000	-0.032	1101	1.59	38670.7282	1101
7001	0.126	-0.055	0.000	0.032	1101	1.79	38673.7389	1101
7001	0.025	-0.015	0.000	-0.052	1101	1.14	38674.6359	1101
7001	0.093	-0.021	0.000	0.006	1101	1.78	38674.7353	1101
7001	0.031	0.008	0.000	0.050	1101	1.07	38676.6037	3303
7001	-0.003	0.042	0.015	0.000	1110	1.14	38678.5639	1110
7001	0.037	0.015	0.019	0.000	1110	1.12	38680.5481	4440
7001	0.024	0.035	-0.014	0.000	1110	1.24	38680.5889	4440
7001	-0.014	0.020	-0.032	0.000	1110	1.13	38687.5321	4440
7001	0.029	0.033	0.003	0.000	1110	1.37	38687.5944	4440
7001	0.020	-0.003	0.000	-0.001	1101	1.01	38693.4876	1101
7001	0.103	-0.033	0.000	-0.024	1101	1.01	38693.4954	1101
7001	0.032	0.004	-0.048	0.000	1110	1.21	38694.5411	4440
7001	0.110	-0.049	0.000	0.029	1101	1.08	38694.5573	3303
7001	0.038	0.002	-0.068	0.000	1110	1.37	38694.5764	4440
7001	0.020	0.020	-0.040	0.000	1110	1.33	38695.5667	2220
7001	0.033	0.045	-0.033	0.000	1110	1.31	38697.5573	4440
7001	0.027	0.012	-0.028	0.000	1110	1.61	38697.5981	4440
7001	0.157	-0.064	0.000	0.071	1101	1.23	38823.0148	1101
7001	0.040	-0.004	0.000	0.052	1101	1.11	38826.0406	1101
7001	0.040	-0.034	0.000	0.043	1101	1.11	38827.0387	1101

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
7001	-0.043	0.017	0.000	0.023	1101	1.27	38864.8902	1101
7001	0.190	-0.194	0.000	0.157	1101	2.13	38865.8000	1101
7001	-0.040	0.064	0.000	0.040	1101	1.08	38865.9442	1101
7001	-0.085	0.073	0.000	-0.028	1101	1.01	38874.9687	1101
7001	0.113	0.034	0.000	0.011	1101	1.09	38875.9144	1101
7001	0.017	-0.033	0.000	0.019	1101	1.05	38876.9316	1101
7001	0.144	0.018	0.000	0.281	1101	1.08	38877.9120	1101
7001	-0.086	-0.002	0.000	0.089	1101	1.04	38888.9025	1101
7001	0.056	-0.013	0.000	0.104	1101	1.11	38889.8677	1101
7001	0.067	-0.029	0.000	0.095	1101	1.06	38905.8437	1101
7001	-0.074	-0.018	0.000	-0.053	1101	1.01	38905.9196	1101
7001	-0.002	0.021	0.000	-0.005	1101	1.02	38906.8710	1101
7001	-0.052	-0.084	0.000	0.026	1101	1.02	38906.9424	1101
7001	0.072	-0.065	0.000	-0.030	1101	1.07	38907.8346	1101
7001	-0.172	0.003	0.000	0.034	1101	1.01	38907.8780	1101
7001	0.031	0.005	0.000	-0.002	1101	1.16	38908.7960	1101
7001	-0.029	-0.006	0.000	-0.025	1101	1.01	38908.8880	1101
7001	-0.022	-0.055	0.000	-0.008	1101	1.01	38910.8814	1101
7001	0.044	-0.021	0.000	0.016	1101	1.36	38911.7459	1101
7001	0.094	0.058	0.000	-0.074	1101	1.04	38915.8274	1101
7001	-0.025	-0.032	0.000	0.068	1101	1.17	38916.7717	1101
7001	0.156	-0.098	0.000	0.243	1101	1.03	38917.8366	1101
7001	-0.018	-0.026	0.000	-0.003	1101	1.15	38918.7738	1101
7001	-0.002	0.004	0.000	-0.022	1101	1.08	38923.7860	1101
7001	0.034	-0.087	0.000	0.109	1101	1.02	38924.8244	1101
7001	0.001	-0.055	0.000	0.222	1101	1.09	38925.7753	1101
7001	0.151	-0.112	0.000	0.068	1101	1.03	38926.8094	1101
7001	0.225	-0.018	0.000	0.173	1101	1.01	38930.8467	1101
7001	0.225	-0.018	0.000	0.173	1101	1.01	38930.8467	1101
7001	-0.025	-0.048	0.000	-0.048	1101	1.01	38931.8365	1101
7001	-0.025	-0.048	0.000	-0.048	1101	1.01	38931.8365	1101
7001	0.101	-0.077	0.000	0.036	1101	1.01	38934.8204	1101
7001	-0.071	-0.093	0.000	0.045	1101	1.01	39010.5985	1101
7001	0.036	-0.033	0.000	0.053	1101	1.54	39032.7324	1101
7001	0.036	-0.033	0.000	0.053	1101	1.54	39032.7324	1101
7001	-0.097	0.044	0.000	0.020	1101	1.02	39034.5835	1101
7001	0.054	-0.046	0.000	-0.018	1101	1.01	39035.5688	1101
7001	-0.015	-0.025	0.000	0.072	1101	1.01	39036.5712	1101
7001	-0.008	0.017	0.000	0.009	1101	1.02	39037.5771	1101
7001	-0.123	0.012	0.000	0.004	1101	1.02	39038.5781	1101
7001	0.016	0.011	0.000	0.008	1101	1.03	39040.5795	1101
7001	0.009	-0.003	0.000	0.026	1101	1.01	39041.5618	1101
7001	0.222	-0.160	0.000	0.096	1101	1.08	39052.5802	1101
7001	0.046	-0.056	0.000	0.098	1101	1.10	39053.5834	1101
7001	-0.032	-0.039	0.000	0.089	1101	1.08	39054.5750	1101
7001	-0.003	0.020	0.000	0.046	1101	1.11	39055.5842	1101
7001	-0.022	-0.009	0.000	0.063	1101	1.08	39056.5684	1101
7001	-0.020	0.002	0.000	0.051	1101	1.07	39057.5605	3303
7001	0.009	0.022	0.000	0.010	1101	1.08	39058.5611	3303
7001	-0.018	0.022	0.000	0.004	1101	1.10	39061.5633	3303
7001	-0.047	0.027	0.000	-0.000	1101	1.07	39062.5481	3303
7001	0.025	-0.014	0.000	0.036	1101	1.07	39063.5457	3303
7001	0.100	-0.060	0.000	0.011	1101	1.15	39064.5720	3303
7001	0.117	-0.047	0.000	0.066	1101	1.20	39072.5652	3303
7063	1.722	0.684	0.000	0.000	1100	1.26	38637.6644	1101
7063	1.740	0.666	0.000	0.000	1100	1.26	38638.6277	1101
7063	1.735	0.700	0.000	0.000	1100	1.29	38639.6815	1101
7066	2.100	0.748	0.000	0.581	1101	1.28	38637.6701	1101
7066	2.075	0.743	0.000	0.464	1101	1.28	38638.6341	1101
7066	2.070	0.776	0.000	0.521	1101	1.32	38639.6866	1101
7106	3.116	0.188	0.000	0.000	1100	1.02	38637.6882	1101
7106	3.026	0.143	0.000	0.000	1100	1.00	38638.6394	1101
7106	3.060	0.214	0.000	0.000	1100	1.03	38639.6926	1101
7120	2.118	0.820	0.000	0.139	1101	1.89	38888.9130	1101
7120	1.898	0.757	0.000	0.143	1101	1.81	38889.9273	1101
7120	2.194	0.780	0.000	0.221	1101	1.74	38908.9098	1101
7133	2.580	0.572	0.000	0.000	1100	1.04	38637.6926	1101
7133	2.540	0.580	0.000	0.000	1100	1.02	38638.6444	1101
7133	2.562	0.646	0.000	0.000	1100	1.05	38639.6962	1101
7139	-1.172	1.162	1.963	0.000	1110	1.51	38357.5872	1110
7139	-1.156	1.174	2.033	0.000	1110	1.43	38360.5687	1110
7139	-1.197	1.170	2.018	0.000	1110	1.55	38361.5806	1110
7139	-1.305	1.203	0.000	0.219	1101	1.00	38564.8546	1101
7139	-1.195	1.239	0.000	0.208	1101	1.01	38566.8746	1101
7139	-1.342	1.313	0.000	0.189	1101	1.15	38667.6733	1101
7139	-1.184	1.174	0.000	0.235	1101	1.03	38669.6128	1101
7150	0.995	0.695	0.000	0.102	1101	1.68	38638.6510	1101
7150	0.974	0.746	0.000	0.000	1100	1.85	38639.7096	1101
7150	0.981	0.715	0.000	0.175	1101	2.03	38666.6585	1101
7157	-1.989	1.163	2.068	0.000	1110	1.50	38357.5915	1110
7157	-1.994	1.188	2.120	0.000	1110	1.46	38360.5781	1110
7157	-2.035	1.188	2.090	0.000	1110	1.63	38361.5960	1110
7157	-2.168	1.238	0.000	0.280	1101	1.02	38564.8629	1101
7157	0.000	1.185	0.000	0.000	0100	1.03	38566.8812	1101
7157	-2.084	1.245	0.000	0.240	1101	1.02	38638.6582	1101
7157	-2.055	1.245	0.000	0.275	1101	1.06	38639.7028	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
7157	-2.179	1.330	0.000	0.244	1101	1.14	38667.6664	1101
7157	-2.057	1.157	0.000	0.241	1101	1.07	38669.6271	1101
7157	-2.077	1.220	0.000	0.287	1101	1.19	38670.6741	1101
7176	1.695	0.668	0.000	0.208	1101	1.08	38637.6988	1101
7176	1.666	0.635	0.000	0.066	1101	1.13	38640.7148	1101
7176	1.706	0.626	0.000	0.125	1101	1.27	38666.6813	1101
7178	3.217	0.025	0.000	0.000	1100	1.03	38637.7049	1101
7178	3.213	0.013	0.000	0.000	1100	1.08	38640.7205	1101
7178	3.291	-0.061	0.000	0.069	1101	1.19	38666.6865	1101
7193	1.500	0.711	0.000	0.050	1101	1.27	38638.6638	1101
7193	1.566	0.697	0.000	0.141	1101	1.48	38666.6626	1101
7193	1.473	0.742	0.000	0.024	1101	1.65	38667.6837	1101
7217	1.463	0.676	0.000	-0.031	1101	1.71	38638.6715	1101
7217	1.512	0.632	0.000	0.078	1101	2.10	38666.6674	1101
7217	1.461	0.585	0.000	0.141	1101	1.85	38668.6308	1101
7235	2.899	0.020	0.018	0.000	1110	1.07	38317.5681	1110
7235	2.968	-0.034	0.000	0.000	1100	1.06	38638.6788	1101
7235	2.899	0.037	0.000	0.000	1100	1.16	38640.7255	1101
7236	3.701	-0.018	-0.118	0.000	1110	1.54	38228.8768	1110
7236	3.641	-0.050	-0.129	0.000	1110	1.30	38317.5760	1110
7264	1.848	0.242	0.343	0.000	1110	1.76	38317.5839	1110
7264	1.863	0.291	0.000	0.000	1100	1.70	38638.6825	1101
7264	1.919	0.254	0.000	0.139	1101	2.07	38666.6719	1101
7310	0.792	0.634	0.990	0.000	1110	1.24	38317.5903	1110
7310	0.790	0.646	0.000	0.023	1101	1.24	38637.7109	1101
7310	0.815	0.634	0.000	-0.644	1100	1.23	38638.6990	1101
7314	1.587	0.747	1.209	0.000	1110	1.01	38307.5911	1110
7314	1.688	0.692	0.000	0.158	1101	1.04	38637.7185	1101
7314	1.757	0.672	0.000	0.119	1101	1.33	38666.7318	1101
7317	2.472	0.958	0.000	0.006	1101	1.49	38888.9851	1101
7317	2.620	0.978	0.000	0.136	1101	1.54	38889.9452	1101
7317	2.432	1.029	0.000	0.060	1101	1.50	38908.9393	1101
7328	1.610	0.610	0.962	0.000	1110	1.07	38307.5937	1110
7328	1.680	0.559	0.000	0.143	1101	1.10	38637.7246	1101
7328	1.763	0.547	0.000	0.035	1101	1.37	38666.7390	1101
7352	1.769	0.685	1.122	0.000	1110	1.34	38317.5981	1110
7377	2.548	0.222	0.285	0.000	1110	1.16	38307.6007	1110
7377	2.600	0.139	0.268	0.000	1110	1.21	38317.6053	1110
7405	0.525	1.019	1.595	0.000	1110	1.02	38307.6050	1110
7405	0.587	0.973	1.561	0.000	1110	1.24	38339.6071	4440
7417	0.144	0.848	1.318	0.000	1110	1.01	38307.6076	1110
7417	0.170	0.858	0.000	0.165	1101	1.04	38511.9740	1101
7429	1.810	0.728	0.000	0.000	1100	1.12	38638.7054	1101
7429	1.838	0.681	0.000	0.193	1101	1.23	38666.6774	1101
7429	1.779	0.725	0.000	0.235	1101	1.36	38667.7033	1101
7429	1.800	0.746	1.193	0.000	1110	1.18	38695.5745	2220
7429	1.846	0.735	1.118	0.000	1110	1.16	38697.5642	4440
7429	1.678	0.783	0.000	-0.019	1101	1.10	38888.9922	1101
7429	1.853	0.726	0.000	0.133	1101	1.17	38889.9364	1101
7429	1.612	0.763	0.000	0.144	1101	1.12	38908.9648	1101
7446	5.147	-0.057	0.000	0.072	1101	1.37	39037.6371	1101
7462	2.854	0.479	0.737	0.000	1110	1.39	38339.6157	4440
7462	2.712	0.604	0.000	0.000	1100	1.26	38638.7104	1101
7462	2.778	0.544	0.000	0.254	1101	1.34	38667.6925	1101
7479	2.629	0.496	0.000	0.000	1100	1.05	38638.7177	1101
7479	2.578	0.425	0.000	0.146	1101	1.06	38668.6385	1101
7479	2.751	0.398	0.000	0.097	1101	1.19	38669.6889	1101
7488	2.090	0.664	0.000	-0.019	1101	1.06	38638.7221	1101
7488	2.095	0.561	0.000	0.237	1101	1.07	38668.6441	1101
7488	2.208	0.574	0.000	0.148	1101	1.22	38669.6958	1101
7488	2.146	0.633	0.000	0.175	1101	1.04	38693.5282	1101
7503	4.388	0.397	0.000	0.000	1100	1.06	38556.8894	1101
7503	4.415	0.495	0.000	0.300	1101	1.06	38557.9396	1101
7503	4.822	0.235	0.000	-0.118	1101	1.46	38667.7707	1101
7503	4.546	0.370	0.000	0.108	1101	1.55	38725.6265	1101
7504	4.574	0.463	0.000	0.000	1100	1.05	38556.9024	1101
7504	4.759	0.329	0.000	0.427	1101	1.07	38557.9502	1101
7504	4.549	0.360	0.000	0.007	1101	1.51	38667.7792	1101
7504	4.818	0.391	0.000	-0.221	1101	1.50	38725.6191	1101
7525	-0.656	0.882	1.473	0.000	1110	1.09	38226.7911	1110
7525	-0.554	0.925	0.000	0.248	1101	1.14	38638.7418	1101
7525	-0.562	0.866	0.000	0.162	1101	1.45	38668.7286	1101

B.S.	K	J-K	PBS INFRARED IJKL I-K	K-L	WTS.	AIR	J.D.	CNT.
7528	2.656	0.099	0.000	0.000	1100	1.07	38638.7465	1101
7528	2.935	-0.073	0.000	0.098	1101	1.22	38668.7219	1101
7528	2.846	0.015	0.000	0.120	1101	1.11	38670.6796	1101
7536	-0.776	1.180	0.000	0.165	1101	1.10	38638.7516	1101
7536	-0.738	1.097	0.000	0.194	1101	1.38	38668.7348	1101
7536	-0.839	1.184	0.000	0.221	1101	1.19	38670.6929	1101
7557	0.183	0.222	0.232	0.000	1110	1.09	38226.8113	1110
7557	0.268	0.144	0.256	0.000	1110	1.09	38227.8270	1110
7557	0.163	0.257	0.294	0.000	1110	1.16	38228.8687	1110
7557	0.383	0.144	0.219	0.000	1110	1.10	38295.6155	1110
7557	0.288	0.069	0.098	0.000	1110	1.15	38298.6753	1110
7557	0.155	0.322	0.000	0.085	1101	1.20	38532.9100	1101
7557	0.185	0.209	0.000	-0.004	1101	1.09	38536.9655	1101
7557	0.150	0.203	0.000	0.071	1101	1.10	38537.9449	1101
7557	0.123	0.201	0.000	0.087	1101	1.11	38538.9350	1101
7557	0.217	0.026	0.000	0.042	1101	1.09	38542.9590	1101
7557	0.340	0.139	0.000	0.030	1101	1.15	38543.8949	1101
7557	0.056	0.172	0.000	0.084	1101	1.10	38544.9229	1101
7557	0.264	0.124	0.000	-0.039	1101	1.09	38545.9516	1101
7557	0.219	0.150	0.000	0.043	1101	1.09	38546.9341	1101
7557	0.361	-0.030	0.000	0.057	1101	1.10	38547.9194	1101
7557	0.213	0.145	0.000	0.031	1101	1.09	38556.9098	1101
7557	0.219	0.157	0.000	0.039	1101	1.09	38557.9083	1101
7557	0.312	0.171	0.000	0.141	1101	1.09	38558.9198	1101
7557	0.159	0.136	0.000	0.100	1101	1.10	38564.9108	1101
7557	0.247	0.099	0.000	0.063	1101	1.09	38566.8955	1101
7557	0.288	0.156	0.000	0.038	1101	1.30	38569.7834	1101
7557	0.295	0.154	0.000	0.133	1101	1.12	38570.8371	1101
7557	0.257	0.198	0.000	0.093	1101	1.22	38631.6326	1101
7557	0.235	0.121	0.000	0.081	1101	1.09	38638.6872	1101
7557	0.251	0.115	0.000	0.084	1101	1.11	38639.7154	1101
7557	0.294	0.095	0.000	0.060	1101	1.09	38640.6746	1101
7557	0.268	0.125	0.000	0.017	1101	1.13	38640.7306	1101
7557	0.226	0.091	0.000	0.053	1101	1.12	38667.6510	1101
7557	0.308	0.099	0.000	-0.077	1101	1.54	38669.7368	1101
7557	0.332	0.085	0.000	-0.058	1101	1.71	38671.7468	1101
7557	0.324	0.058	0.000	0.108	1101	1.12	38693.5037	1101
7557	0.164	0.235	0.000	-0.043	1101	1.12	38875.0029	1101
7557	0.300	0.114	0.000	0.001	1101	1.11	38877.0064	1101
7557	0.327	0.149	0.000	0.020	1101	1.09	38878.0246	1101
7557	0.249	0.167	0.000	0.016	1101	1.29	38889.9093	1101
7557	0.251	0.267	0.000	0.015	1101	1.17	38905.8967	1101
7557	0.526	0.099	0.000	0.137	1101	1.15	38906.9030	1101
7557	0.077	0.152	0.000	-0.151	1101	1.11	38908.9780	1101
7557	0.045	0.133	0.000	0.043	1101	1.09	38910.9483	1101
7557	0.225	0.065	0.000	0.173	1101	1.10	38926.9219	1101
7557	0.208	0.128	0.000	-0.069	1101	1.09	38934.8753	1101
7557	0.396	0.077	0.000	0.055	1101	1.67	39032.7555	1101
7557	0.346	0.161	0.000	0.101	1101	1.17	39034.6674	1101
7557	0.276	0.117	0.000	0.054	1101	1.10	39035.5861	1101
7557	0.260	0.097	0.000	0.155	1101	1.10	39036.5799	1101
7557	0.244	0.140	0.000	-0.004	1101	1.28	39045.6676	3303
7557	0.309	0.047	0.000	0.064	1101	1.43	39053.6716	1101
7557	0.177	0.171	0.000	-0.077	1101	1.23	39056.6266	1101
7557	0.211	0.170	0.000	-0.011	1101	1.19	39062.5997	3303
7557	0.238	0.159	0.000	0.066	1101	1.17	39063.5882	3303
7557	0.231	0.171	0.000	0.027	1101	1.22	39064.6028	3303
7557	0.248	0.101	0.000	0.036	1101	1.17	39069.5707	1101
7557	0.258	0.117	0.000	0.133	1101	1.31	39072.6010	3303
7564	-1.949	1.716	3.587	0.000	1110	1.33	38200.7515	1110
7564	-2.027	1.791	3.652	0.000	1110	1.18	38200.7821	1110
7564	-1.722	1.596	4.003	0.000	1110	1.03	38296.6724	1110
7564	-1.790	1.402	3.037	0.000	1110	1.48	38368.5891	3330
7564	-2.329	1.675	0.000	0.623	1101	1.00	38564.8787	1101
7564	-2.428	1.515	0.000	0.553	1101	1.54	38916.7640	1101
7564	-2.281	1.620	0.000	0.590	1101	1.43	38936.7221	1101
7564	-1.623	1.983	0.000	0.761	1101	1.01	39036.6324	1101
7564	-1.313	2.018	0.000	0.881	1101	1.06	39054.6161	1101
7564	-1.342	2.089	0.000	0.907	1101	1.06	39055.6124	1101
7582	1.662	0.546	1.006	0.000	1110	1.26	38303.6108	1110
7582	1.663	0.594	0.000	0.151	1101	1.28	38668.6514	1101
7582	1.721	0.587	0.000	0.121	1101	1.48	38670.7521	1101
7602	1.721	0.495	0.834	0.000	1110	1.17	38301.6673	1110
7602	1.722	0.573	0.000	0.085	1101	1.21	38638.7585	1101
7602	1.686	0.573	0.000	0.147	1101	1.32	38670.6987	1101
7615	1.694	0.561	0.942	0.000	1110	1.05	38301.6741	1110
7615	1.656	0.624	0.888	0.000	1110	1.02	38310.6322	1110
7615	1.638	0.644	0.000	0.132	1101	1.26	38667.7405	1101
7635	-0.156	0.957	1.533	0.000	1110	1.09	38301.6782	1110
7635	-0.123	0.943	0.000	0.250	1101	1.38	38667.7469	1101
7635	-0.195	0.960	0.000	0.164	1101	1.03	38669.6186	1101
7678	4.116	0.420	0.736	0.000	1110	1.00	38284.6808	1110
7678	4.125	0.348	0.000	0.000	1100	1.13	38324.6515	1110
7678	4.082	0.416	0.599	0.000	1110	1.04	38328.6028	1110
7685	1.593	0.818	1.317	0.000	1110	1.23	38227.8470	1110
7685	1.552	0.759	1.270	0.000	1110	1.23	38303.6209	1110
7685	1.574	0.788	1.265	0.000	1110	1.24	38310.6420	1110

B.S.	K	J-K	PBS INFRARED IJKL I-K	K-L	WTS.	AIR	J.D.	CNT.
7710	3.335	0.039	0.046	0.000	1110	1.28	38228.8924	1110
7710	3.464	-0.003	-0.122	0.000	1110	1.19	38303.6467	1110
7710	3.436	-0.011	0.000	0.000	1100	1.19	38639.7263	1101
7710	3.377	0.002	0.000	0.029	1101	1.41	38670.7108	1101
7735	0.518	0.932	1.445	0.000	1110	1.05	38303.6676	1110
7735	0.453	0.917	1.421	0.000	1110	1.05	38310.6484	1110
7735	0.506	0.886	1.383	0.000	1110	1.31	38369.5822	1110
7747	1.879	0.634	1.043	0.000	1110	1.66	38303.7072	1110
7747	1.965	0.612	0.000	0.000	1100	1.43	38639.7312	1101
7747	1.915	0.625	0.000	0.141	1101	1.45	38668.6600	1101
7751	0.173	1.066	1.590	0.000	1110	1.47	38303.7927	1110
7751	0.147	1.030	1.635	0.000	1110	1.06	38310.6535	1110
7751	0.155	1.009	1.530	0.000	1110	1.39	38369.5994	1110
7754	1.922	0.623	1.000	0.000	1110	1.46	38304.6598	1110
7754	1.516	0.620	0.000	0.000	1100	1.44	38639.7351	1101
7754	1.461	0.561	0.000	0.188	1101	1.46	38668.6648	1101
7763	3.242	0.423	0.717	0.000	1110	1.09	37832.8215	1110
7763	3.252	0.506	0.789	0.000	1110	1.02	37838.9117	3330
7763	3.411	0.442	0.000	0.422	1101	1.57	38667.8042	1101
7763	3.372	0.498	0.000	0.456	1101	1.15	38670.7198	1101
7776	0.957	0.641	0.000	0.068	1101	1.51	38639.7395	1101
7776	0.942	0.610	0.000	0.000	1100	1.57	38640.7567	1101
7776	0.833	0.640	0.000	0.067	1101	1.57	38668.6804	1101
7796	0.685	0.440	0.637	0.000	1110	1.67	38303.8151	1110
7796	0.750	0.417	0.000	0.063	1101	1.05	38637.7733	1101
7796	0.727	0.457	0.000	0.023	1101	1.60	38667.8120	1101
7806	1.476	0.827	1.216	0.000	1110	1.06	38305.6877	1110
7806	1.426	0.871	0.000	0.125	1101	1.06	38637.7789	1101
7806	1.418	0.863	0.000	0.119	1101	1.19	38670.7342	1101
7847	3.525	0.598	0.000	0.353	1101	1.01	38556.9249	1101
7847	3.554	0.627	0.000	0.290	1101	1.00	38557.9300	1101
7847	3.544	0.635	0.000	0.241	1101	1.13	38631.6444	1101
7847	3.549	0.631	0.000	0.106	1101	1.01	38631.7576	1101
7847	3.573	1.251	0.000	0.110	1001	1.16	39038.7260	1101
7882	2.622	0.229	0.376	0.000	1110	1.11	38228.9011	1110
7882	2.700	0.224	0.305	0.000	1110	1.09	38305.6831	1110
7882	2.614	0.264	0.000	0.000	1100	1.12	38637.7843	1101
7884	2.327	0.543	0.835	0.000	1110	1.24	38305.6773	1110
7884	2.284	0.557	0.000	0.000	1100	1.30	38637.7878	1101
7884	2.216	0.621	0.000	0.000	1100	1.24	38639.7609	1101
7924	0.862	0.135	0.145	0.000	1110	1.52	37768.9192	3330
7924	0.855	0.158	0.174	0.000	1110	1.16	37778.9661	1110
7924	0.920	0.136	0.170	0.000	1110	1.04	37803.9699	1110
7924	0.849	0.132	0.158	0.000	1110	1.05	37805.9530	1110
7924	0.915	0.112	0.141	0.000	1110	1.10	37828.8523	1110
7924	0.892	0.126	0.155	0.000	1110	1.05	37828.9567	1110
7924	0.919	0.134	0.145	0.000	1110	1.04	37829.9365	3330
7924	0.926	0.120	0.158	0.000	1110	1.05	37831.9484	1110
7924	0.864	0.090	0.129	0.000	1110	1.04	37832.8980	1110
7924	0.934	0.109	0.129	0.000	1110	1.08	37837.9609	3330
7924	0.939	0.077	0.139	0.000	1110	1.04	37838.9275	3330
7924	0.926	0.118	0.145	0.000	1110	1.13	38226.7657	1110
7924	0.894	0.107	0.130	0.000	1110	1.03	38227.8387	1110
7924	0.946	0.083	0.126	0.000	1110	1.07	38228.9082	1110
7924	0.859	0.124	0.125	0.000	1110	1.03	38293.6478	1110
7924	0.958	0.107	0.105	0.000	1110	1.04	38295.6299	1110
7924	0.832	0.164	0.120	0.000	1110	1.03	38295.6892	1110
7924	0.831	0.108	0.101	0.000	1110	1.27	38295.7951	1110
7924	1.001	0.072	0.107	0.000	1110	1.03	38299.6313	1110
7924	0.881	0.106	0.126	0.000	1110	1.08	38301.5839	1110
7924	0.869	0.098	0.106	0.000	1110	1.26	38302.7736	1110
7924	0.908	0.117	0.198	0.000	1110	1.05	38303.6849	1110
7924	0.999	0.132	0.104	0.000	1110	1.03	38305.6432	1110
7924	0.918	0.084	0.111	0.000	1110	1.03	38306.6290	1110
7924	0.862	0.128	0.141	0.000	1110	1.03	38307.6172	1110
7924	0.842	0.121	0.147	0.000	1110	1.06	38309.6821	1110
7924	0.887	0.075	0.087	0.000	1110	1.03	38310.6193	1110
7924	0.875	0.097	0.127	0.000	1110	1.03	38311.6197	1110
7924	0.971	0.112	0.097	0.000	1110	1.03	38316.6185	1110
7924	0.912	0.159	0.145	0.000	1110	1.07	38320.6536	1110
7924	0.984	0.059	-0.000	0.000	1110	1.05	38323.6308	1110
7924	0.941	0.109	0.105	0.000	1110	1.06	38324.6365	1110
7924	0.907	0.104	0.110	0.000	1110	1.13	38327.6680	1110
7924	0.884	0.106	0.107	0.000	1110	1.03	38328.5703	1110
7924	0.935	0.113	0.098	0.000	1110	1.03	38329.5566	1110
7924	0.929	0.095	0.113	0.000	1110	1.25	38329.6975	1110
7924	0.860	0.102	0.148	4.534	1110	1.03	38339.5714	4440
7924	0.877	0.105	0.167	0.000	1110	1.05	38340.5845	3330
7924	0.900	0.120	0.128	0.000	1110	1.13	38341.6282	1110
7924	0.942	0.054	0.000	0.000	1100	1.05	38343.5759	3330
7924	0.895	0.121	0.085	0.000	1110	2.25	38343.7668	3330
7924	0.906	0.082	0.119	0.000	1110	1.14	38353.6010	1110
7924	0.880	0.097	0.114	0.000	1110	1.12	38356.5814	1110
7924	0.836	0.122	0.111	0.000	1110	1.12	38357.5805	1110

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
7924	0.900	0.120	0.128	0.000	1110	1.10	38358.5711	1110
7924	0.891	0.116	0.131	0.000	1110	1.09	38360.5577	1110
7924	0.867	0.171	0.090	0.000	1110	2.02	38365.6926	3330
7924	0.000	0.000	0.110	0.000	0010	1.12	38368.5493	3330
7924	0.896	0.125	0.125	0.000	1110	2.23	38381.6616	3330
7924	0.852	0.132	0.174	0.000	1110	1.73	38496.9180	1110
7924	0.229	0.290	0.000	0.043	0101	1.14	38508.9899	1101
7924	0.790	0.135	0.000	0.142	1101	1.25	38511.9465	1101
7924	0.974	0.046	0.000	0.074	1101	1.24	38515.9398	1101
7924	0.956	0.041	0.000	0.222	1101	1.04	38532.9762	1101
7924	0.851	0.175	0.000	0.167	1101	1.15	38534.9124	1101
7924	0.974	0.113	0.000	0.117	1101	1.03	38536.9785	1101
7924	0.822	0.160	0.000	0.102	1101	1.05	38537.9557	1101
7924	0.875	0.140	0.000	0.100	1101	1.03	38538.9997	1101
7924	0.886	0.133	0.000	0.108	1101	1.03	38542.9936	1101
7924	0.829	0.124	0.000	0.077	1101	1.03	38544.9872	1101
7924	0.823	0.170	0.000	0.107	1101	1.03	38545.9826	1101
7924	0.898	0.103	0.000	0.114	1101	1.03	38546.9813	1101
7924	0.908	0.110	0.000	0.128	1101	1.03	38547.9697	1101
7924	0.898	0.146	0.000	0.127	1101	1.03	38556.9378	1101
7924	0.874	0.139	0.000	0.122	1101	1.03	38557.9224	1101
7924	0.889	0.138	0.000	0.223	1101	1.03	38559.9460	1101
7924	0.908	0.123	0.000	0.104	1101	1.06	38566.9770	1101
7924	0.934	0.104	0.000	0.106	1101	1.04	38569.8747	1101
7924	0.913	0.151	0.189	0.000	1110	1.03	38569.9100	3330
7924	0.955	0.085	0.000	0.121	1101	1.03	38570.9020	1101
7924	1.030	0.055	0.000	0.211	1101	1.03	38627.7503	1101
7924	0.877	0.107	0.000	0.215	1101	1.07	38627.8130	1101
7924	0.969	0.099	0.000	0.078	1101	1.03	38629.7591	1101
7924	0.897	0.081	0.000	0.126	1101	1.16	38630.8463	1101
7924	0.876	0.082	0.000	0.058	1101	1.07	38631.6871	1101
7924	0.900	0.064	0.000	0.193	1101	1.03	38631.7674	1101
7924	0.918	0.097	0.000	0.120	1101	1.04	38637.7653	1101
7924	0.894	0.093	0.000	0.164	1101	1.05	38638.7681	1101
7924	0.927	0.090	0.000	0.123	1101	1.10	38640.7975	1101
7924	0.889	0.085	0.000	0.096	1101	1.12	38646.7896	1101
7924	0.884	0.037	0.000	-0.649	1100	1.44	38665.8135	1101
7924	0.835	0.123	0.000	0.132	1101	1.05	38666.6970	1101
7924	0.892	0.067	0.000	-0.796	1100	1.04	38671.6718	1101
7924	0.880	0.103	0.000	0.185	1101	1.05	38673.5860	1101
7924	0.923	0.098	0.095	0.000	1110	1.12	38678.5687	1110
7924	0.846	0.139	0.139	0.000	1110	1.12	38680.5535	4440
7924	0.909	0.115	0.105	0.000	1110	1.13	38680.6035	4440
7924	0.943	0.094	0.103	0.000	1110	1.12	38687.5474	4440
7924	0.935	0.088	0.000	0.075	1101	1.11	38692.6595	1101
7924	0.913	0.086	0.000	0.068	1101	1.07	38693.5169	1101
7924	0.792	0.200	0.000	0.096	1101	1.03	38693.5941	1101
7924	0.882	0.140	0.108	0.000	1110	1.11	38694.5467	4440
7924	0.894	0.122	0.073	0.000	1110	1.14	38697.5719	4440
7924	0.898	0.082	0.103	0.000	1110	1.93	38697.7097	4440
7924	0.939	0.057	0.000	0.130	1101	2.04	38738.6734	1101
7924	0.802	0.089	0.000	0.156	1101	1.11	38874.9975	1101
7924	0.858	0.138	0.000	0.031	1101	1.07	38878.0103	1101
7924	0.896	0.171	0.000	0.079	1101	1.10	38888.9647	1101
7924	0.944	0.094	0.000	0.161	1101	1.09	38889.9687	1101
7924	0.868	0.113	0.000	0.098	1101	1.29	38905.8598	1101
7924	0.695	0.106	0.000	-0.001	1101	1.03	38905.9753	1101
7924	0.689	0.130	0.000	0.084	1101	1.07	38906.9294	1101
7924	0.939	0.097	0.000	0.091	1101	1.04	38906.9622	1101
7924	0.903	0.128	0.000	0.166	1101	1.31	38907.8502	1101
7924	0.839	0.116	0.000	0.130	1101	1.14	38907.8969	1101
7924	0.873	0.127	0.000	0.099	1101	1.07	38908.9238	1101
7924	0.858	0.085	0.000	0.111	1101	1.03	38908.9974	1101
7924	0.721	0.110	0.000	0.075	1101	1.03	38910.9717	1101
7924	0.868	0.080	0.000	0.225	1101	1.07	38915.9062	1101
7924	0.926	0.034	0.000	0.066	1101	1.18	38916.8594	1101
7924	0.886	0.061	0.000	0.016	1101	1.03	38916.9694	1101
7924	0.826	0.106	0.000	-0.085	1101	1.03	38917.9883	1101
7924	0.842	0.103	0.000	0.065	1101	1.04	38921.9789	1101
7924	0.992	-0.061	0.000	0.345	1101	1.03	38924.9466	1101
7924	0.834	0.181	0.000	0.080	1101	1.05	38925.9798	1101
7924	0.726	0.165	0.000	-0.013	1101	1.03	38926.9283	1101
7924	1.022	0.014	0.000	0.174	1101	1.04	38936.8771	1101
7924	0.000	0.137	0.000	0.111	0101	1.55	39032.8240	1101
7924	0.903	0.099	0.000	0.084	1101	1.18	39033.7503	1101
7924	0.846	0.104	0.000	0.093	1101	1.03	39035.6289	1101
7924	0.948	0.066	0.000	0.118	1101	1.07	39038.6889	1101
7924	0.939	0.082	0.000	0.025	1101	1.06	39041.6750	1101
7924	0.940	0.070	0.000	0.128	1101	1.04	39061.6075	3303
7924	0.881	0.129	0.000	0.063	1101	1.07	39063.6199	3303
7924	0.956	0.148	0.000	0.088	1101	1.07	39064.6194	3303
7924	0.990	-0.001	0.000	0.169	1101	1.14	39072.6312	3303
7924	0.921	0.105	0.000	0.166	1101	1.17	39076.6315	1101
7939	2.246	0.717	1.119	0.000	1110	1.05	38343.5885	3330
7939	2.297	0.756	0.000	0.127	1101	1.08	38637.7938	1101
7939	2.285	0.763	0.000	0.210	1101	1.04	38639.7673	1101
7942	1.843	0.648	1.034	0.000	1110	1.04	38227.9062	1110
7942	1.892	0.740	1.015	0.000	1110	1.02	38305.6725	1110
7942	1.901	0.666	0.000	0.199	1101	1.08	38637.8016	1101
7942	1.845	0.689	0.000	0.000	1100	1.03	38639.7729	1101
7949	0.074	0.603	1.039	0.000	1110	1.18	37778.9590	1110
7949	0.070	0.658	1.064	0.000	1110	1.02	37805.9589	1110
7949	0.135	0.630	1.050	0.000	1110	1.10	38226.7751	1110

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
7949	0.076	0.665	1.116	0.000	1110	1.00	38227.8596	1110
7949	0.138	0.589	1.015	0.000	1110	1.02	38228.8845	1110
7949	0.115	0.636	1.052	0.000	1110	1.01	38293.6532	1110
7949	0.137	0.678	1.102	0.000	1110	1.00	38293.6898	1110
7949	0.140	0.693	1.033	0.000	1110	1.01	38295.6366	1110
7949	0.024	0.681	1.103	0.000	1110	1.01	38295.6951	1110
7949	0.028	0.684	1.065	0.000	1110	1.31	38295.8019	1110
7949	0.041	0.698	1.064	0.000	1110	1.00	38296.6516	1110
7949	0.064	0.662	1.046	0.000	1110	1.06	38299.5946	1110
7949	0.156	0.665	1.047	0.000	1110	1.01	38301.6829	1110
7949	0.025	0.672	1.019	0.000	1110	1.43	38302.8024	1110
7949	0.181	0.708	0.938	0.000	1110	1.26	38303.7714	1110
7949	0.221	0.654	0.951	0.000	1110	1.00	38305.6488	1110
7949	0.111	0.702	1.023	0.000	1110	1.06	38306.7030	1110
7949	0.116	0.649	0.981	0.000	1110	1.00	38307.6250	1110
7949	0.078	0.654	1.061	0.000	1110	1.05	38309.6873	1110
7949	0.150	0.605	0.975	0.000	1110	1.00	38310.6246	1110
7949	0.101	0.680	1.061	0.000	1110	1.02	38311.6629	1110
7949	0.169	0.653	1.030	0.000	1110	1.01	38315.5909	1110
7949	0.122	0.634	0.995	0.000	1110	1.04	38316.6619	1110
7949	0.110	0.646	1.032	0.000	1110	1.18	38316.7186	1110
7949	0.131	0.631	0.992	0.000	1110	1.03	38317.6520	1110
7949	0.165	0.621	0.954	0.000	1110	1.12	38323.6809	1110
7949	0.154	0.636	1.007	0.000	1110	1.04	38324.6408	1110
7949	0.085	0.693	1.034	0.000	1110	1.13	38327.6729	1110
7949	0.103	0.635	0.984	0.000	1110	1.21	38328.6933	1110
7949	0.112	0.694	1.055	0.000	1110	1.00	38329.5711	1110
7949	0.148	0.622	1.014	0.000	1110	1.01	38339.5751	4440
7949	0.150	0.628	1.019	0.000	1110	1.03	38340.5891	3330
7949	0.152	0.695	0.991	0.000	1110	1.96	38340.7462	3330
7949	0.105	0.660	1.002	0.000	1110	1.03	38343.5797	3330
7949	0.146	0.683	0.000	0.000	1100	2.48	38343.7632	3330
7949	0.123	0.706	1.028	0.000	1110	1.21	38353.6238	1110
7949	0.100	0.657	1.046	0.000	1110	1.11	38356.5882	1110
7949	0.113	0.630	1.016	0.000	1110	1.16	38357.5997	1110
7949	0.129	0.644	1.044	0.000	1110	1.15	38360.5889	1110
7949	0.122	0.717	1.002	0.000	1110	2.11	38365.6865	3330
7949	0.102	0.652	1.025	0.000	1110	1.12	38368.5565	3330
7949	0.106	0.636	1.042	0.000	1110	2.24	38387.6332	3330
7949	0.219	0.754	0.000	0.387	1101	1.09	38509.0061	1101
7949	0.148	0.703	0.000	0.111	1101	1.24	38511.9546	1101
7949	0.164	0.655	0.000	0.070	1101	1.23	38515.9471	1101
7949	0.158	0.641	1.020	0.000	1110	2.04	38523.8372	3330
7949	0.051	0.639	0.000	0.114	1101	1.02	38532.9836	1101
7949	0.063	0.703	0.000	0.117	1101	1.01	38533.9905	1101
7949	0.046	0.736	0.000	0.065	1101	1.01	38534.9853	1101
7949	0.022	0.709	0.000	0.100	1101	1.02	38537.9669	1101
7949	0.057	0.715	0.000	0.030	1101	1.00	38539.0102	1101
7949	0.109	0.663	0.000	0.052	1101	1.00	38543.0012	1101
7949	0.083	0.652	0.000	0.083	1101	1.00	38544.9971	1101
7949	0.058	0.745	0.000	0.131	1101	1.00	38545.9957	1101
7949	0.154	0.689	0.000	0.064	1101	1.00	38546.9924	1101
7949	0.063	0.665	0.000	0.085	1101	1.00	38547.9794	1101
7949	0.193	0.605	0.000	0.114	1101	1.03	38557.9956	1101
7949	0.212	0.640	0.000	0.218	1101	1.02	38558.9885	1101
7949	0.010	0.671	0.000	0.016	1101	1.04	38559.9975	1101
7949	0.115	0.679	0.000	0.105	1101	1.01	38566.9444	1101
7949	0.170	0.611	0.000	0.114	1101	1.02	38569.8831	1101
7949	0.153	0.627	1.077	0.000	1110	1.00	38569.9211	3330
7949	0.125	0.692	0.000	0.116	1101	1.00	38570.9117	1101
7949	0.129	0.664	0.000	0.095	1101	1.01	38627.7317	1101
7949	0.064	0.878	0.000	0.177	1101	1.03	38627.8064	1101
7949	0.054	0.685	0.000	0.168	1101	1.07	38629.6858	1101
7949	0.232	0.625	0.000	-0.071	1101	1.21	38629.8669	1101
7949	0.123	0.679	0.000	0.105	1101	1.12	38630.8404	1101
7949	0.118	0.669	0.000	0.103	1101	1.06	38631.6826	1101
7949	0.177	0.802	0.000	0.137	1101	1.17	38631.8516	1101
7949	0.150	0.663	0.000	0.123	1101	1.11	38637.8158	1101
7949	0.128	0.641	0.000	0.127	1101	1.02	38638.6920	1101
7949	0.124	0.706	0.000	0.107	1101	1.03	38638.7739	1101
7949	0.110	0.672	0.000	0.099	1101	1.00	38639.7206	1101
7949	0.130	0.672	0.000	0.113	1101	1.08	38639.8010	1101
7949	0.128	0.615	0.000	0.118	1101	1.02	38640.7628	1101
7949	0.101	0.671	0.000	0.130	1101	1.12	38646.7957	1101
7949	0.104	0.666	0.000	0.046	1101	1.57	38665.8216	1101
7949	0.072	0.636	0.000	0.171	1101	1.00	38666.6543	1101
7949	0.065	0.684	0.000	0.154	1101	1.00	38667.6582	1101
7949	0.062	0.645	0.000	0.138	1101	1.05	38668.5905	1101
7949	0.051	0.706	0.000	0.097	1101	1.04	38673.5814	1101
7949	0.162	0.622	0.000	-0.020	1101	1.51	38673.7969	1101
7949	0.112	0.669	0.000	0.153	1101	1.06	38674.5687	1101
7949	0.165	0.641	0.000	0.066	1101	1.55	38674.7982	1101
7949	0.108	0.646	0.000	0.121	1101	1.04	38675.5766	3303
7949	0.131	0.637	1.088	0.000	1110	1.05	38678.5569	1110
7949	0.137	0.617	0.000	0.065	1101	1.11	38692.6685	1101
7949	0.145	0.674	0.000	0.140	1101	1.07	38693.5097	1101
7949	0.030	0.780	0.000	0.106	1101	1.01	38693.5990	1101
7949	0.182	0.548	0.000	0.034	1101	1.15	38693.6781	1101
7949	0.087	0.649	0.000	0.087	1101	1.04	38694.6316	3303
7949	0.095	0.619	1.043	0.000	1110	1.81	38697.7056	4440
7949	0.117	0.626	1.067	0.000	1110	1.04	38680.5585	4440
7949	0.146	0.630	1.027	0.000	1110	1.05	38680.6073	4440
7949	0.071	0.677	1.091	0.000	1110	1.04	38687.5533	4440
7949	0.104	0.658	1.060	0.000	1110	1.04	38694.5507	4440
7949	0.100	0.650	1.100	0.000	1110	1.07	38695.5826	2220
7949	0.132	0.673	1.038	0.000	1110	1.06	38697.5760	4440

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
7949	0.089	0.708	0.000	0.034	1101	2.06	38738.6631	1101
7949	0.148	0.619	0.000	0.180	1101	1.09	38876.9997	1101
7949	0.131	0.676	0.000	0.097	1101	1.04	38878.0183	1101
7949	0.078	0.667	0.000	0.098	1101	1.03	38888.9994	1101
7949	0.150	0.661	0.000	0.131	1101	1.06	38889.9750	1101
7949	0.173	0.636	0.000	0.144	1101	1.24	38905.8773	1101
7949	0.129	0.664	0.000	0.101	1101	1.04	38905.9445	1101
7949	0.088	0.685	0.000	0.082	1101	1.09	38906.9168	1101
7949	0.165	0.651	0.000	0.179	1101	1.00	38906.9814	1101
7949	0.127	0.669	0.000	0.099	1101	1.28	38907.8635	1101
7949	0.119	0.692	0.000	0.155	1101	1.09	38907.9159	1101
7949	-0.007	0.725	0.000	0.122	1101	1.02	38908.9523	1101
7949	0.046	0.677	0.000	0.028	1101	1.00	38908.9907	1101
7949	0.087	0.755	0.000	0.039	1101	1.94	38910.7842	1101
7949	0.209	0.651	0.000	-0.037	1101	1.75	38910.7974	1101
7949	0.210	0.653	0.000	0.046	1101	1.61	38910.8099	1101
7949	0.197	0.623	0.000	0.106	1101	1.43	38910.8305	1101
7949	0.230	0.595	0.000	0.102	1101	1.26	38910.8585	1101
7949	0.165	0.654	0.000	0.153	1101	1.21	38910.8701	1101
7949	0.132	0.607	0.000	0.137	1101	1.12	38910.8932	1101
7949	0.129	0.631	0.000	0.134	1101	1.09	38910.9050	1101
7949	0.104	0.670	0.000	0.139	1101	1.05	38910.9241	1101
7949	0.006	0.625	0.000	0.185	1101	1.03	38910.9360	1101
7949	-0.101	0.562	0.000	0.142	1101	1.01	38910.9604	1101
7949	-0.267	0.740	0.000	0.027	1101	1.00	38910.9839	1101
7949	0.079	0.703	0.000	0.005	1101	1.88	38911.7849	1101
7949	0.060	0.638	0.000	0.063	1101	1.68	38911.8003	1101
7949	-0.011	0.621	0.000	0.090	1101	1.56	38911.8124	1101
7949	0.000	0.678	0.000	0.051	0101	1.47	38911.8234	1101
7949	0.094	0.650	0.000	0.045	1101	1.32	38915.8344	1101
7949	0.219	0.561	0.000	0.084	1101	1.24	38915.8493	1101
7949	0.045	0.706	0.000	0.112	1101	1.19	38915.8618	1101
7949	0.080	0.645	0.000	0.200	1101	1.09	38915.8924	1101
7949	0.124	0.688	0.000	0.032	1101	1.78	38916.7786	1101
7949	0.016	0.724	0.000	0.065	1101	1.01	38916.9388	1101
7949	0.245	0.667	0.000	0.141	1101	1.24	38917.8447	1101
7949	0.101	0.620	0.000	0.122	1101	1.18	38917.8576	1101
7949	0.069	0.644	0.000	0.114	1101	1.09	38917.8861	1101
7949	0.010	0.658	0.000	-0.134	1101	1.00	38917.9693	1101
7949	0.064	0.628	0.000	0.027	1101	1.00	38917.9807	1101
7949	0.106	0.663	0.000	0.081	1101	1.69	38918.7805	1101
7949	0.156	0.638	0.000	0.134	1101	1.57	38918.7920	1101
7949	0.106	0.591	0.000	0.063	1101	1.22	38918.8451	1101
7949	0.162	0.658	0.000	0.112	1101	1.00	38918.9607	1101
7949	0.580	0.542	0.000	0.148	1101	1.00	38918.9714	1101
7949	0.137	0.687	0.000	-0.029	1101	1.60	38921.7806	1101
7949	0.194	0.633	0.000	0.109	1101	1.20	38921.8416	1101
7949	0.114	0.656	0.000	0.078	1101	1.03	38921.9066	1101
7949	0.059	0.717	0.000	0.113	1101	1.00	38921.9680	1101
7949	0.154	0.613	0.000	0.020	1101	1.98	38922.7489	1101
7949	0.122	0.637	0.000	0.012	1101	1.78	38922.7624	1101
7949	0.203	0.544	0.000	0.200	1101	1.21	38922.8364	1101
7949	0.041	0.639	0.000	0.117	1101	1.03	38922.9079	1101
7949	0.000	0.739	0.000	0.213	0101	1.00	38924.9524	1101
7949	0.015	0.689	0.000	0.013	1101	1.04	38924.9968	1101
7949	0.282	0.635	0.000	0.004	1101	1.03	38925.9862	1101
7949	0.144	0.844	0.000	0.114	1101	1.04	38926.9923	1101
7949	0.032	0.691	0.000	0.135	1101	1.04	38931.9759	1101
7949	0.032	0.691	0.000	0.135	1101	1.04	38931.9759	1101
7949	-0.033	0.660	0.000	0.104	1101	1.13	38934.8273	1101
7949	0.077	0.718	0.000	0.111	1101	1.09	38934.8411	1101
7949	0.296	0.681	0.000	0.237	1101	1.00	38934.9264	1101
7949	-0.143	0.635	0.000	0.071	1101	1.46	38936.7560	1101
7949	0.092	0.642	0.000	0.000	1100	1.23	38936.7941	1101
7949	0.135	0.756	0.000	0.153	1101	1.10	38936.8321	1101
7949	0.106	0.664	0.000	0.099	1101	1.00	38936.9266	1101
7949	-0.020	0.768	0.000	0.130	1101	1.56	39032.8190	1101
7949	0.087	0.649	0.000	0.118	1101	1.15	39033.7448	1101
7949	0.009	0.677	0.000	0.046	1101	1.01	39034.6764	1101
7949	0.116	0.686	0.000	0.046	1101	1.07	39035.7128	1101
7949	0.107	0.712	0.000	0.040	1101	1.14	39036.7335	1101
7949	0.167	0.649	0.000	0.148	1101	1.03	39038.5923	1101
7949	0.120	0.626	0.000	0.149	1101	1.03	39040.5859	1101
7949	0.089	0.668	0.000	0.105	1101	1.04	39041.5735	1101
7949	0.132	0.667	0.000	0.112	1101	1.03	39041.6702	1101
7949	0.158	0.646	0.000	0.109	1101	1.19	39045.7236	3303
7949	0.170	0.644	0.000	0.120	1101	1.13	39051.6898	1101
7949	0.132	0.698	0.000	0.098	1101	1.00	39052.6010	1101
7949	0.017	0.688	0.000	0.151	1101	1.16	39053.6258	1101
7949	0.057	0.649	0.000	0.177	1101	1.02	39054.6228	1101
7949	0.132	0.643	0.000	0.150	1101	1.01	39055.6181	1101
7949	0.127	0.603	0.000	0.117	1101	1.03	39055.6313	1101
7949	0.011	0.670	0.000	0.043	1101	1.00	39056.5774	1101
7949	0.017	0.672	0.000	0.100	1101	1.00	39057.5689	3303
7949	0.103	0.654	0.000	0.104	1101	1.00	39058.5715	3303
7949	0.051	0.663	0.000	0.121	1101	1.08	39062.6399	3303
7949	0.101	0.646	0.000	0.099	1101	1.11	39063.6499	3303
7949	0.088	0.684	0.000	0.074	1101	1.07	39064.6315	3303
7949	0.150	0.659	0.000	0.147	1101	1.00	39066.5715	1101
7949	0.050	0.663	0.000	0.146	1101	1.01	39066.5885	1101
7949	0.038	0.587	0.000	0.106	1101	1.00	39069.5639	1101
7949	0.167	0.660	0.000	0.107	1101	1.27	39072.6681	3303
7949	0.144	0.650	0.000	0.144	1101	1.21	39076.6437	1101
7951	-0.166	1.119	1.764	0.000	1110	1.27	38305.6551	1110
7951	-0.161	1.180	0.000	0.167	1101	1.43	38637.8088	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
7951	-0.212	1.215	0.000	0.177	1101	1.33	38639.7779	1101
7957	1.332	0.668	0.888	0.000	1110	1.15	38305.6601	1110
7957	1.312	0.594	0.955	0.000	1110	1.18	38569.9733	3330
7957	1.208	0.590	0.000	0.091	1101	1.24	38637.8222	1101
8079	-0.033	1.050	1.632	0.000	1110	1.03	38301.6876	1110
8079	-0.006	1.038	0.000	0.272	1101	1.02	38558.9586	1101
8079	-0.178	1.048	0.000	0.223	1101	1.11	38637.8281	1101
8079	0.015	1.030	0.000	0.199	1101	1.10	38640.8166	1101
8085	2.399	0.716	1.138	0.000	1110	1.23	38302.7837	1110
8085	2.497	0.759	0.000	0.065	1101	1.52	38667.8323	1101
8085	2.315	0.793	0.000	0.092	1101	1.15	38668.7608	1101
8086	2.718	0.808	1.350	0.000	1110	1.03	37829.8973	3330
8086	2.750	0.815	1.334	0.000	1110	1.28	38302.7946	1110
8086	2.714	0.844	0.000	0.080	1101	1.47	38667.8257	1101
8086	2.726	0.811	0.000	0.093	1101	1.17	38668.7666	1101
8093	2.345	0.581	0.903	0.000	1110	1.39	38316.6274	1110
8093	2.472	0.606	0.000	0.186	1101	1.39	38558.9661	1101
8093	2.440	0.593	0.000	0.000	1100	1.44	38638.7841	1101
8115	1.061	0.577	0.936	0.000	1110	1.00	38227.8674	1110
8115	1.170	0.532	0.864	0.000	1110	1.00	38316.6335	1110
8115	1.038	0.591	0.000	0.106	1101	1.11	38668.7497	1101
8130	2.684	0.297	0.419	0.000	1110	1.00	38227.8743	1110
8130	2.737	0.264	0.415	0.000	1110	1.01	38316.6405	1110
8143	3.772	0.130	0.155	0.000	1110	1.01	38316.6484	1110
8143	3.801	0.223	0.000	0.193	1101	1.01	38558.9721	1101
8143	3.816	0.125	0.000	0.000	1100	1.10	38637.8351	1101
8162	1.928	0.128	0.199	0.000	1110	1.16	38316.6552	1110
8162	1.982	0.172	0.000	0.106	1101	1.15	38558.9775	1101
8162	1.953	0.164	0.000	0.000	1100	1.23	38637.8406	1101
8167	2.223	0.550	0.814	0.000	1110	1.62	38316.6806	1110
8167	2.279	0.573	0.000	0.000	1100	1.59	38638.7895	1101
8167	2.291	0.574	0.000	0.000	1100	1.57	38639.7823	1101
8173	1.602	0.672	1.075	0.000	1110	1.07	38316.6861	1110
8173	1.668	0.734	0.000	0.219	1101	1.03	38558.9832	1101
8173	1.671	0.707	0.000	0.103	1101	1.17	38637.8457	1101
8204	1.819	0.557	0.000	0.000	1100	1.81	38638.7949	1101
8204	1.856	0.522	0.000	0.000	1100	1.80	38639.7903	1101
8204	1.886	0.467	0.000	0.117	1101	1.75	38668.6885	1101
8207	0.000	1.627	0.000	0.444	0101	1.05	38566.9053	1101
8213	2.495	0.585	0.000	0.000	1100	1.79	38638.7992	1101
8213	2.432	0.625	0.000	0.000	1100	1.79	38639.7944	1101
8213	2.454	0.578	0.000	0.105	1101	1.75	38668.7027	1101
8232	1.084	0.495	0.720	0.000	1110	1.27	38227.8819	1110
8232	1.121	0.445	0.708	0.000	1110	1.34	38316.6918	1110
8238	4.027	-0.182	-0.356	0.000	1110	1.27	38227.8900	1110
8238	3.935	-0.206	-0.369	0.000	1110	1.30	38303.7318	1110
8238	3.912	-0.149	-0.343	0.000	1110	1.50	38399.5682	3330
8252	1.967	0.544	0.860	0.000	1110	1.03	38227.8983	1110
8252	0.000	0.000	0.855	0.000	0010	1.10	38303.7543	1110
8252	1.967	0.624	0.000	0.000	1100	1.13	38637.8520	1101
8252	1.976	0.579	0.000	0.088	1101	1.11	38640.8364	1101
8255	2.450	0.642	1.057	0.000	1110	1.07	38339.6480	4440
8255	2.426	0.656	1.039	0.000	1110	1.02	38343.6061	3330
8262	-1.286	1.204	2.277	0.000	1110	1.25	38381.5921	3330
8278	3.008	0.151	0.207	0.000	1110	1.64	38316.7014	1110
8278	3.048	0.102	0.154	0.000	1110	2.58	38400.5513	3330
8279	4.205	0.152	0.169	0.000	1110	1.17	38309.6189	1110
8279	4.277	0.051	0.075	0.000	1110	1.16	38311.6295	1110
8279	4.091	0.128	0.000	0.069	1101	1.16	38668.7129	1101
8297	0.245	1.584	2.457	0.000	1110	1.04	38293.6594	1110
8297	0.197	1.612	2.494	0.000	1110	1.01	38295.7235	1110
8297	0.000	0.000	2.382	0.000	0010	1.22	38367.6283	1110
8297	0.255	1.602	0.000	0.388	1101	1.14	38666.7867	1101
8308	-0.832	0.793	1.380	0.000	1110	1.09	38295.7299	1110
8308	-0.747	0.835	1.292	0.000	1110	1.09	38323.6458	1110
8308	-0.869	0.904	1.399	0.000	1110	1.79	38399.5792	3330
8313	1.877	0.612	1.066	0.000	1110	1.05	38295.7355	1110
8313	1.892	0.630	0.972	0.000	1110	1.09	38343.6330	3330
8313	1.894	0.644	0.976	0.000	1110	1.28	38369.6155	1110
8316	-1.685	1.126	2.295	0.000	1110	1.12	38228.9151	1110
8316	-1.731	1.117	2.182	0.000	1110	1.14	38293.6648	1110

TABLE 7 THE IJK AND JKL OBSERVATIONS

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
8316	-1.726	1.175	2.249	0.000	1110	1.13	38295.7436	1110
8316	-1.636	1.097	2.063	0.000	1110	1.12	38323.6526	1110
8316	-1.880	1.203	0.000	0.292	1101	1.21	38532.9687	1101
8316	-1.846	1.146	0.000	0.436	1101	1.14	38566.9187	1101
8322	2.077	0.236	0.313	0.000	1110	1.55	38228.9234	1110
8322	2.184	0.192	0.266	0.000	1110	1.58	38295.7505	1110
8322	2.158	0.195	0.185	0.000	1110	1.54	38323.6606	1110
8327	5.361	0.067	0.105	0.000	1110	1.21	37828.9132	1110
8327	5.340	0.050	0.000	0.000	1100	1.30	37832.8528	1110
8334	2.822	0.337	0.577	0.000	1110	1.24	37828.8859	1110
8334	2.892	0.251	0.503	0.000	1110	1.18	38339.6544	4440
8334	2.845	0.356	0.584	0.000	1110	1.18	38341.6461	1110
8334	2.839	0.277	0.438	0.000	1110	1.45	38399.5851	3330
8334	2.920	0.251	0.000	0.088	1101	1.36	38515.9694	1101
8334	2.819	0.279	0.000	0.234	1101	1.33	38532.9309	1101
8334	2.745	0.352	0.000	0.266	1101	1.35	38533.9224	1101
8334	2.968	0.201	0.000	0.040	1101	1.32	38631.6658	1101
8383	-0.146	1.262	2.028	0.000	1110	1.17	38296.7333	1110
8383	-0.108	1.157	1.938	0.000	1110	1.17	38323.6668	1110
8383	-0.139	1.189	1.925	0.000	1110	1.30	38369.6250	1110
8413	1.578	0.858	1.316	0.000	1110	1.20	38339.6600	4440
8413	1.609	0.808	1.386	0.000	1110	1.13	38340.6062	3330
8413	1.550	0.831	1.309	0.000	1110	1.15	38343.6268	3330
8414	0.921	0.598	0.911	0.000	1110	1.19	38296.7388	1110
8414	1.034	0.431	0.711	0.000	1110	1.19	38323.6720	1110
8414	0.920	0.536	0.799	0.000	1110	1.34	38368.6025	3330
8421	1.010	1.144	0.000	0.128	1101	1.04	39052.6196	1101
8421	0.997	1.107	0.000	0.229	1101	1.05	39053.6818	1101
8421	0.917	1.147	0.000	0.237	1101	1.04	39054.6706	1101
8421	1.020	1.102	0.000	0.267	1101	1.03	39055.6508	1101
8428	4.877	0.137	0.000	0.000	1100	1.15	38307.7037	1110
8428	4.998	0.030	0.000	0.000	1100	1.17	38309.6389	1110
8430	2.654	0.307	0.402	0.000	1110	1.02	38296.7452	1110
8430	2.624	0.406	0.514	0.000	1110	1.04	38301.7528	1110
8430	2.684	0.341	0.393	0.000	1110	1.02	38323.6764	1110
8465	0.162	0.821	1.375	0.000	1110	1.11	38317.6826	1110
8465	0.112	0.814	1.336	0.000	1110	1.18	38368.6085	3330
8465	0.070	0.948	0.000	0.110	1101	1.35	38725.6908	1101
8469	4.626	-0.005	0.074	0.000	1110	1.32	37828.8662	1110
8469	4.532	0.079	0.000	0.000	1100	1.24	37832.8840	1110
8469	4.625	0.036	0.000	0.389	1101	1.34	38515.9907	1101
8469	4.521	0.045	0.000	0.060	1101	1.31	38532.9506	1101
8469	4.441	0.144	0.000	0.282	1101	1.34	38533.9400	1101
8469	4.640	-0.043	0.000	0.163	1101	1.12	38631.7910	1101
8469	4.636	0.025	0.000	0.012	1101	1.12	39041.6961	1101
8485	1.332	0.883	1.414	0.000	1110	1.02	38296.7513	1110
8485	1.297	0.888	1.385	0.000	1110	1.01	38317.6899	1110
8498	1.059	0.793	1.348	0.000	1110	1.02	38296.7565	1110
8498	1.025	0.827	1.284	0.000	1110	1.01	38317.6957	1110
8499	2.039	0.563	0.908	0.000	1110	1.35	38296.7622	1110
8499	1.993	0.565	0.905	0.000	1110	1.35	38343.6379	3330
8521	-2.126	1.446	2.981	0.000	1110	2.56	38680.5964	4440
8521	-2.159	1.471	2.951	0.000	1110	2.41	38694.5838	4440
8521	-2.062	1.454	2.968	0.000	1110	2.37	38697.6044	4440
8538	2.055	0.605	1.011	0.000	1110	1.06	38298.7247	1110
8538	2.088	0.618	0.990	0.000	1110	1.07	38317.7013	1110
8541	4.364	0.044	0.000	0.146	1101	1.17	38666.8177	1101
8541	4.281	0.078	0.000	0.027	1101	1.06	38670.7423	1101
8541	4.203	0.069	0.000	-0.087	1101	1.08	39034.7696	1101
8551	2.322	0.649	1.044	0.000	1110	1.18	38338.6679	3330
8551	2.292	0.679	1.122	0.000	1110	1.17	38340.6562	3330
8551	2.409	0.629	0.000	0.116	1101	1.25	38666.7955	1101
8572	0.150	1.037	1.717	0.000	1110	1.04	38317.7068	1110
8572	0.176	1.039	1.806	0.000	1110	1.09	38340.6831	3330
8572	0.141	1.039	1.682	0.000	1110	1.29	38399.5904	3330
8622	5.641	-0.177	0.000	0.000	1100	1.04	37837.9368	3330
8622	5.642	-0.254	0.000	0.000	1100	1.15	37838.8824	3330
8622	5.449	-0.150	0.000	0.011	1101	1.26	38533.9682	1101
8622	5.472	-0.193	0.000	0.488	1101	1.38	38534.9436	1101
8622	5.640	-0.228	0.000	0.760	1101	1.12	38542.9821	1101
8622	5.593	-0.047	0.000	0.751	1101	1.04	38559.9726	1101
8622	5.440	-0.228	0.000	-0.752	1101	1.01	38627.8421	1101
8622	5.539	-0.045	0.000	0.000	1100	1.04	38629.7804	1101
8622	5.513	-0.216	0.000	-0.013	1101	1.01	38629.8375	1101
8622	5.335	0.024	0.000	0.285	1101	1.09	38630.7557	1101
8622	5.416	0.021	0.000	-0.196	1101	1.03	38630.8702	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
8622	5.587	-0.168	0.000	0.146	1101	1.18	38631.7194	1101
8622	5.663	-0.254	0.000	0.686	1101	1.01	38666.7132	1101
8622	5.610	-0.226	0.000	-0.029	1101	1.03	38692.7003	1101
8622	5.639	-0.199	0.000	0.123	1101	1.13	38693.5664	1101
8622	5.542	-0.149	0.000	-0.105	1101	1.02	38694.6785	3303
8632	1.528	0.840	1.395	0.000	1110	1.02	38228.9338	1110
8632	1.495	0.854	1.211	0.000	1110	1.02	38315.6772	1110
8632	1.511	0.849	1.337	0.000	1110	1.08	38340.6905	3330
8650	0.927	0.590	0.958	0.000	1110	1.00	38228.9402	1110
8650	0.906	0.477	0.853	0.000	1110	1.00	38298.7450	1110
8650	0.956	0.526	0.820	0.000	1110	1.01	38317.7136	1110
8667	1.676	0.567	0.920	0.000	1110	1.01	38298.7495	1110
8667	1.599	0.645	1.029	0.000	1110	1.02	38317.7183	1110
8667	1.689	0.587	1.046	0.000	1110	1.09	38340.6953	3330
8679	0.213	0.969	1.583	0.000	1110	1.45	38298.7549	1110
8679	0.268	1.003	1.557	0.000	1110	1.63	38340.7005	3330
8679	0.167	0.970	1.556	0.000	1110	2.22	38399.5951	3330
8684	1.402	0.598	0.864	0.000	1110	1.01	38315.6874	1110
8684	1.466	0.554	0.933	0.000	1110	1.10	38340.7058	3330
8694	1.160	0.649	0.915	0.000	1110	1.20	38315.6958	1110
8694	1.263	0.625	1.056	0.000	1110	1.26	38340.7104	3330
8694	1.163	0.624	1.012	0.000	1110	1.23	38361.6328	1110
8694	1.194	0.617	0.938	0.000	1110	1.27	38369.6333	1110
8698	-0.719	1.176	1.856	0.000	1110	1.31	38298.7597	1110
8698	-0.688	1.089	1.742	0.000	1110	1.32	38343.6431	3330
8726	0.840	1.044	0.000	0.185	1101	1.06	39041.6832	1101
8726	0.842	1.004	0.000	0.276	1101	1.08	39045.7605	3303
8728	1.099	0.018	-0.012	0.000	1110	2.14	38295.7573	1110
8728	0.913	0.058	-0.006	0.000	1110	2.18	38316.7275	1110
8728	0.935	0.070	0.006	0.000	1110	2.40	38368.6187	3330
8728	0.935	0.045	-0.008	0.000	1110	2.71	38400.5561	3330
8729	3.972	0.400	0.658	0.000	1110	1.02	38295.7674	1110
8729	4.062	0.244	0.488	0.000	1110	1.03	38298.7726	1110
8729	3.905	0.413	-2.385	0.000	1100	1.12	38368.6337	3330
8729	3.915	0.442	0.591	0.000	1110	1.32	38398.6003	3330
8729	3.906	0.467	0.000	0.278	1101	1.10	38556.9774	1101
8729	4.022	0.418	0.000	0.272	1101	1.05	38637.8598	1101
8729	4.101	0.311	0.000	0.087	1101	1.09	38666.8069	1101
8752	1.824	0.727	0.000	0.328	1101	1.57	38534.9224	1101
8752	1.841	0.732	0.000	0.244	1101	1.14	38557.9795	1101
8752	1.843	0.739	0.000	0.274	1101	1.13	38566.9560	1101
8752	1.841	0.751	0.000	0.180	1101	1.22	38631.7398	1101
8752	1.794	0.682	0.000	0.234	1101	1.15	38631.7757	1101
8752	1.709	0.749	0.000	0.279	1101	1.14	38744.5944	1101
8775	-2.307	1.246	1.770	0.000	1110	1.01	38260.8385	3330
8775	-2.320	1.157	1.841	0.000	1110	1.00	38260.8582	3330
8775	-2.207	1.061	1.795	0.000	1110	1.04	38296.7111	1110
8775	-2.079	1.011	1.691	0.000	1110	1.10	38299.6749	1110
8775	-2.040	1.061	1.028	0.000	1100	1.00	38299.7464	1110
8775	-2.249	1.118	1.814	0.000	1110	1.01	38301.7351	1110
8775	-2.310	1.132	1.888	0.000	1110	1.02	38302.7090	1110
8775	-2.162	1.094	1.747	0.000	1110	1.00	38305.7273	1110
8775	-2.240	1.097	1.794	0.000	1110	1.00	38306.7419	1110
8775	-2.266	1.106	1.821	0.000	1110	1.01	38307.7118	1110
8775	-2.199	1.127	0.000	-0.065	1100	1.24	38627.7376	1101
8775	-2.241	1.165	0.000	0.123	1101	1.03	38629.8059	1101
8775	-2.188	1.124	0.000	0.200	1101	1.12	38631.9278	1101
8781	2.498	-0.007	-0.090	0.000	1110	1.05	38260.8504	3330
8781	2.549	-0.028	-0.116	0.000	1110	1.15	38293.6972	1110
8781	2.574	-0.008	-0.037	0.000	1110	1.05	38301.7404	1110
8781	2.549	-0.027	-0.104	0.000	1110	1.21	38303.8312	1110
8781	2.542	0.015	-0.036	0.000	1110	1.05	38305.7318	1110
8781	2.502	-0.006	0.019	0.000	1110	1.05	38306.7462	1110
8781	2.492	0.039	-0.063	0.000	1110	1.05	38307.7144	1110
8781	2.550	-0.056	-0.083	0.000	1110	1.16	38307.8082	1110
8781	2.556	0.002	-0.067	0.000	1110	1.05	38315.7179	1110
8781	2.512	-0.018	-0.031	0.000	1110	1.06	38353.6292	1110
8781	2.560	0.016	-0.043	0.000	1110	1.34	38356.7139	1110
8781	2.537	-0.021	-0.089	0.000	1110	1.19	38357.6789	1110
8781	2.521	0.043	-0.053	0.000	1110	1.07	38361.6191	1110
8781	0.000	0.000	-0.092	0.000	0010	1.18	38367.6497	1110
8781	2.503	0.032	-0.040	0.000	1110	1.05	38369.5604	1110
8781	2.485	0.006	-0.029	0.000	1110	1.10	38370.6115	3330
8781	2.520	0.010	-0.058	0.000	1110	1.12	38375.6072	1110
8781	2.596	-0.108	-0.138	0.000	1110	1.06	38377.5635	3330
8781	2.509	0.028	-0.027	0.000	1110	1.06	38378.5661	3330
8781	2.476	0.014	-0.054	0.000	1110	1.06	38379.5593	3330
8781	2.629	-0.090	-0.113	0.000	1110	1.11	38395.5477	1110
8781	2.559	-0.053	-0.099	0.000	1110	1.13	38396.5526	1110
8781	2.543	-0.039	-0.130	0.000	1110	1.21	38397.5747	3330
8781	2.518	-0.015	-0.073	0.000	1110	1.18	38399.5615	3330
8781	2.501	0.020	-0.037	0.000	1110	1.26	38400.5796	3330
8781	2.580	-0.041	0.000	0.031	1101	1.11	38557.9884	1101

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
8781	2.326	0.135	0.000	-0.167	1101	1.05	38725.5934	1101
8781	2.505	-0.052	0.000	0.076	1101	1.08	38738.5942	1101
8781	2.556	-0.048	0.000	-0.013	1101	1.41	38740.6727	1101
8781	2.482	0.063	0.000	0.025	1101	1.19	38741.6279	1101
8781	2.660	-0.071	0.000	0.061	1101	1.08	38742.5852	1101
8781	2.549	0.007	0.000	0.015	1101	1.06	38743.5641	1101
8781	2.578	0.005	0.000	0.026	1101	1.07	38744.5727	1101
8781	2.537	-0.016	0.000	0.020	1101	1.09	38747.5746	1101
8781	2.608	-0.075	0.000	-0.007	1101	1.22	38750.6124	1101
8781	2.542	-0.077	0.000	0.054	1101	1.10	38751.5707	1101
8781	2.624	-0.051	0.000	0.032	1101	1.12	38752.5747	1101
8781	2.486	0.025	0.000	-0.032	1101	1.31	38773.5671	1101
8781	2.737	-0.001	0.000	-0.050	1101	1.93	38870.0185	1101
8781	2.633	0.018	0.000	0.043	1101	1.23	38906.9943	1101
8781	2.528	-0.058	0.000	0.056	1101	1.20	38910.9918	1101
8781	2.581	-0.011	0.000	0.012	1101	1.17	38916.9824	1101
8781	2.451	-0.044	0.000	0.056	1101	1.10	38924.9899	1101
8781	2.443	0.029	0.000	0.016	1101	1.09	38925.9925	1101
8781	2.560	0.060	0.000	0.007	1101	1.07	38926.9998	1101
8781	2.455	0.003	0.000	-0.064	1101	1.05	39034.7562	1101
8781	2.584	-0.056	0.000	0.058	1101	1.09	39037.6853	1101
8781	2.568	-0.033	0.000	-0.012	1101	1.14	39037.8020	1101
8781	2.550	-0.024	0.000	0.082	1101	1.05	39040.7110	1101
8781	2.531	-0.042	0.000	0.047	1101	1.05	39041.7339	1101
8781	2.535	-0.031	0.000	0.014	1101	1.11	39045.7691	3303
8781	2.588	-0.087	0.000	0.069	1101	1.08	39060.7126	1101
8781	2.494	0.008	0.000	0.052	1101	1.05	39062.6744	3303
8781	2.502	-0.013	0.000	-0.068	1101	1.06	39063.6874	3303
8781	2.511	-0.028	0.000	0.104	1101	1.05	39064.6626	3303
8781	2.520	-0.009	0.000	0.104	1101	1.13	39072.7040	3303
8781	2.533	-0.026	0.000	-0.040	1101	1.21	39076.7161	1101
8781	2.554	-0.009	0.000	0.023	1101	1.28	39132.5777	3303
8781	2.613	-0.008	0.000	0.054	1101	1.56	39138.6012	1101
8781	2.471	0.014	0.000	0.042	1101	1.30	39139.5640	1101
8795	0.713	0.933	1.500	0.000	1110	1.09	38295.7823	1110
8795	0.673	0.962	1.540	0.000	1110	1.10	38315.7314	1110
8808	6.218	0.041	0.000	0.000	1100	1.17	38328.6873	1110
8812	0.940	0.745	1.151	0.000	1110	1.71	38295.7890	1110
8812	1.013	0.736	1.146	0.000	1110	1.97	38340.7182	3330
8812	0.922	0.766	1.134	0.000	1110	2.00	38369.6431	1110
8812	0.901	0.808	1.183	0.000	1110	2.03	38400.5615	3330
8832	3.276	0.599	0.856	0.000	1110	1.13	38298.7125	1110
8834	0.184	1.019	1.551	0.000	1110	1.30	38315.7411	1110
8834	0.157	0.996	1.623	0.000	1110	1.28	38343.6482	3330
8841	1.796	0.661	1.033	0.000	1110	1.42	38315.7668	1110
8841	1.800	0.728	1.075	0.000	1110	1.58	38340.7330	3330
8841	1.755	0.679	1.051	0.000	1110	1.88	38399.6045	3330
8852	1.419	0.619	0.947	0.000	1110	1.17	38316.7473	1110
8852	1.438	1.161	0.967	0.000	1010	1.15	38338.6543	3330
8852	1.460	0.610	0.946	0.000	1110	1.21	38361.6442	1110

PBS INFRARED IJKL

B.S.	K	J-K	I-K	K-L	WTS.	AIR	J.D.	CNT.
8860	0.368	1.071	1.772	0.000	1110	1.06	38316.7534	1110
8860	0.370	1.099	1.852	0.000	1110	1.04	38343.6560	3330
8892	1.358	0.672	0.000	0.000	1100	1.66	38343.6610	3330
8892	1.349	0.736	1.096	0.000	1110	2.48	38365.7020	3330
8892	1.333	0.710	1.133	0.000	1110	1.93	38400.5656	3330
8905	3.000	0.361	0.587	0.000	1110	1.04	38316.7587	1110
8905	3.003	0.370	0.550	0.000	1110	1.02	38343.6655	3330
8905	3.048	0.334	0.576	0.000	1110	1.03	38343.6780	3330
8906	0.936	0.937	1.409	0.000	1110	2.00	38368.6602	3330
8906	0.939	0.929	1.399	0.000	1110	1.96	38369.6530	1110
8916	1.882	0.635	1.015	0.000	1110	1.15	38316.7660	1110
8916	1.851	0.699	1.014	0.000	1110	1.29	38368.6678	3330
8916	1.904	0.646	0.966	0.000	1110	1.33	38369.6738	1110
8923	2.437	0.544	0.882	0.000	1110	1.11	38316.7729	1110
8923	2.403	0.585	0.863	0.000	1110	1.25	38368.6764	3330
8923	2.480	0.549	0.821	0.000	1110	1.30	38369.6825	1110
8961	1.343	0.676	1.073	0.000	1110	1.06	38316.7792	1110
8961	1.303	0.625	1.055	0.000	1110	1.03	38323.6956	1110
9004	-0.576	1.526	0.000	0.326	1101	1.37	38569.9482	1101
9004	-0.535	1.577	0.000	0.337	1101	1.29	38570.9612	1101
9045	2.001	0.493	0.000	0.209	1101	1.10	39035.7834	1101
9045	2.056	0.558	0.000	0.227	1101	1.11	39036.7504	1101
9045	2.029	0.637	0.000	0.254	1101	1.14	39037.8282	1101
9064	0.065	1.069	1.801	0.000	1110	1.02	38296.7690	1110
9064	0.030	1.072	1.755	0.000	1110	1.02	38323.7028	1110
9064	0.008	1.068	1.759	0.000	1110	1.16	38368.6951	3330
9064	0.026	1.141	0.000	0.227	1101	1.04	38752.5929	1101
9066	-1.423	1.510	3.344	0.000	1110	1.10	38343.7328	3330
9066	-1.485	1.426	3.168	0.000	1110	1.07	38378.6122	3330
9066	-1.496	1.457	3.114	0.000	1110	1.15	38398.6060	3330
9089	-0.530	1.126	1.919	0.000	1110	1.28	38298.7858	1110
9089	-0.465	1.089	1.804	0.000	1110	1.28	38323.7137	1110
9089	-0.437	1.105	1.769	0.000	1110	1.54	38369.6912	1110
9089	-0.442	1.145	0.000	0.175	1101	1.56	38566.9671	1101
9089	-0.460	1.050	1.880	0.000	1110	1.84	38678.5767	4440
9089	-0.465	1.096	1.888	0.000	1110	1.77	38680.5759	4440
9089	-0.471	1.091	1.924	0.000	1110	1.11	38680.7238	4440
9089	-0.454	1.055	1.888	0.000	1110	1.52	38687.5785	4440
9089	-0.455	1.081	1.828	0.000	1110	1.54	38694.5575	4440
9089	-0.491	1.101	1.892	0.000	1110	2.32	38694.8443	4440
9089	-0.469	1.135	1.865	0.000	1110	1.31	38697.5809	4440
9089	-0.470	1.119	1.851	0.000	1110	1.12	38697.6967	4440
9089	-0.476	1.178	0.000	0.187	1101	1.35	38752.6014	1101

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2	6.29	1.10	1.02	3	2
3	4.61	1.04	0.87	3	1
6	5.70	0.52	.	6	2
8	6.14	0.75	0.33	4	1
9	6.18	0.33	.	3	2
10	6.19	0.14	.	3	2
11	6.43	-0.14	-0.48	3	2
12	5.94	0.14	.	3	2
14	6.05	1.38	1.16	3	2
15	2.06	-0.11	-0.47	6	1
16	5.99	1.04	0.82	3	2
18	6.05	1.67	1.97	3	2
19	6.23	0.97	0.72	2	1
21	2.27	0.54	0.11	9	1
23	6.33	0.74	.	6	2
25	3.88	1.03	0.84	6	2
27	5.04	0.40	0.25	2	1
29	5.84	0.98	0.74	3	2
30	5.28	1.05	0.92	3	2
31	5.86	1.01	.	3	2
32	6.64	0.37	0.06	6	2
33	4.89	0.49	.	3	2
35	5.25	0.44	.	3	2
37	5.25	1.48	1.63	3	2
39	2.34	-0.23	-0.87	9	1
42	5.74	1.55	.	3	2
45	4.80	1.57	1.93	9	1
46	5.12	1.62	1.81	6	2
47	5.77	1.72	2.10	3	2
48	4.46	1.66	1.95	2	1
50	5.79	0.31	0.04	3	2
51	5.75	-0.08	.	3	2
57	5.67	1.35	.	3	2
58	6.49	1.00	0.72	3	2
59	6.11	0.92	0.66	3	2
63	4.61	0.06	0.05	9	1
64	6.77	0.46	0.08	3	2
65	5.50	0.03	-1.01	3	1
66	6.45	0.37	.	3	2
67	6.17	0.94	0.73	3	2
68	4.52	0.05	0.07	6	1
72	6.46	0.68	0.29	9	2
73	6.33	1.21	.	6	2
74	3.55	1.22	1.18	2	1
77	4.23	0.58	0.02	3	2
80	5.37	1.34	1.55	3	2
83	5.51	-0.05	-0.14	3	2
84	5.18	1.00	.	3	2
87	5.97	1.40	1.40	3	2
88	6.39	0.66	.	3	2
90	7.39	1.97	1.25	4	1
91	5.56	-0.11	-0.61	3	1
94	6.07	1.22	1.23	3	2
97	5.77	0.86	0.57	3	2
98	2.80	0.62	0.11	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
99	2.40	1.09	0.88	6	2
100	3.94	0.17	0.11	6	2
101	6.19	0.91	0.55	3	2
105	4.81	1.64	1.80	3	2
107	6.04	0.44	-0.06	3	2
108	6.44	0.60	.	3	2
109	5.43	1.56	.	6	2
112	6.21	0.84	0.55	2	1
113	5.94	0.01	-0.36	9	1
115	6.14	0.37	.	3	2
117	5.72	1.56	1.90	3	2
118	5.19	0.12	.	3	2
119	6.19	0.33	.	3	2
120	5.69	0.35	.	3	2
123	4.73	-0.10	-0.35	3	1
124	5.60	1.15	1.12	2	1
125	4.77	0.02	0.04	6	2
126	4.37	-0.07	-0.17	3	2
127	4.54	0.15	0.03	3	2
130	4.16	0.14	-0.80	9	1
132	5.67	0.00	-0.17	3	2
138	5.55	1.27	.	3	2
139	6.13	0.23	0.20	3	2
140	5.57	0.46	.	3	2
142	5.20	0.56	0.08	9	2
143	5.93	0.44	-0.02	3	2
148	6.06	1.01	.	3	2
150	6.45	1.06	0.91	3	2
151	6.06	0.29	.	6	2
153	3.66	-0.19	-0.89	4	1
154	4.36	-0.16	-0.55	2	1
159	5.57	0.71	.	3	2
160	6.42	1.26	1.38	3	2
161	6.39	1.34	1.52	3	2
162	6.41	1.00	.	3	2
163	4.38	0.87	0.47	4	1
165	3.28	1.28	1.48	4	1
166	5.86	0.85	0.57	5	1
168	2.23	1.17	1.13	7	1
169	6.85	0.11	0.12	2	2
171	6.01	1.14	.	6	2
172	6.49	0.92	0.53	6	2
173	6.14	0.70	.	3	2
174	5.91	1.10	0.89	3	2
175	5.33	0.89	0.60	7	1
176	5.89	0.55	.	6	2
179	4.81	-0.10	-0.65	3	1
180	4.59	0.97	0.72	6	2
183	5.70	0.20	.	6	2
185	6.06	-0.03	.	6	2
186	5.98	1.32	.	6	2
187	5.39	0.50	0.02	3	2
188	2.02	1.01	0.88	6	1
189	5.68	-0.13	-0.56	2	1
191	4.36	0.00	-0.02	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
193	4.50	-0.06	-0.53	3	1
194	4.75	1.00	0.83	4	1
197	5.24	0.33	.	6	2
198	5.94	0.28	.	3	2
199	6.06	0.44	.	3	2
201	6.15	1.62	2.00	3	2
202	6.15	0.53	.	6	2
206	6.47	0.31	.	3	2
209	5.80	0.64	.	6	2
210	5.50	0.98	.	3	2
215	4.06	1.12	0.88	3	1
216	5.99	0.94	0.70	3	2
219	3.44	0.58	0.02	4	1
220	5.57	-0.06	.	3	2
221	5.93	1.10	0.99	3	2
222	5.76	0.88	0.58	4	1
224	4.44	1.51	1.87	2	1
226	4.53	-0.15	-0.58	7	1
229	6.27	0.90	.	6	2
232	6.28	0.13	.	6	2
235	5.20	0.50	-0.02	6	1
236	5.07	1.37	1.68	3	2
239	6.48	0.29	.	3	2
242	5.22	0.36	.	6	2
243	6.37	1.07	0.88	3	2
244	4.82	0.53	0.12	3	1
245	6.90	0.35	.	3	2
248	4.78	1.57	1.92	2	1
252	6.22	0.56	0.08	3	2
253	4.84	1.22	1.27	2	1
255	6.16	0.92	0.54	3	2
263	5.85	1.52	1.93	6	2
264	2.39	-0.10	-1.10	3	1
265	4.64	0.96	0.70	2	1
267	5.31	1.52	.	3	2
269	3.87	0.12	0.15	2	1
270	5.45	1.09	1.00	3	2
271	4.42	0.94	0.69	6	1
276	6.32	0.90	0.58	7	1
280	4.27	-0.18	-0.57	2	1
281	6.23	0.10	.	3	2
284	6.11	1.67	1.91	3	2
285	4.26	1.21	1.33	3	1
286	6.49	0.10	0.07	5	1
288	5.59	1.18	.	3	2
290	5.98	0.16	0.10	6	1
293	5.50	0.08	.	3	2
294	4.28	0.96	0.71	4	1
295	6.11	0.94	.	6	2
296	5.44	1.11	1.04	2	1
299	5.36	0.90	.	3	2
300	6.29	0.93	.	3	2
301	6.04	0.27	0.13	3	2
304	6.21	1.64	1.90	3	2
307	6.00	1.51	1.85	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
313	6.34	0.38	-0.04	3	2
314	7.24	0.49	-0.03	3	2
315	6.12	1.01	0.86	5	1
316	6.43	1.18	1.27	2	1
317	5.58	0.01	.	3	2
321	5.18	0.69	0.09	9	1
322	3.31	0.90	0.57	3	2
323	6.62	0.14	.	3	2
325	6.37	0.23	.	6	2
327	6.25	0.40	-0.01	2	1
330	5.53	0.34	0.00	8	1
331	5.21	0.16	0.09	3	2
332	5.37	0.88	.	3	2
334	3.45	1.16	1.19	5	1
335	4.25	-0.07	-0.34	4	1
337	2.05	1.57	1.96	4	1
338	3.91	-0.08	-0.41	3	2
343	4.34	0.17	0.13	9	1
346	6.40	1.04	0.87	3	2
347	5.95	1.51	1.87	3	2
351	4.66	1.03	0.82	2	1
352	4.51	1.10	1.01	2	1
353	5.95	1.40	1.66	2	1
358	6.52	0.48	.	3	2
359	5.92	0.28	.	3	2
360	4.66	1.03	0.84	2	1
361	4.86	0.32	0.09	3	2
366	5.13	0.46	-0.05	6	2
367	6.03	1.08	1.01	3	2
368	5.70	0.42	-0.02	3	2
370	4.96	0.58	0.10	3	2
373	5.41	0.90	0.44	3	2
377	4.86	0.47	0.03	3	2
378	5.17	0.07	0.08	5	1
380	6.24	0.05	-0.02	3	2
382	4.99	0.68	0.49	9	1
383	4.76	0.03	0.10	2	1
385	5.87	0.64	0.32	3	2
387	6.23	1.02	0.84	3	2
390	4.90	1.08	0.98	3	1
392	6.20	1.52	1.86	3	2
393	6.49	1.08	1.01	3	2
399	4.74	1.04	0.93	3	1
400	5.84	1.61	.	3	2
401	6.21	0.23	0.09	3	2
402	3.59	1.06	0.92	3	1
403	2.68	0.13	0.13	8	1
404	5.91	0.41	-0.05	6	2
406	6.15	0.96	0.71	3	2
408	5.42	1.04	0.85	3	2
411	6.26	1.14	1.08	3	2
412	4.90	1.23	.	3	2
416	6.41	1.24	1.27	3	2
417	4.83	0.42	0.00	3	1
419	6.58	-0.04	-0.19	3	2

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
420	5.93	1.56	1.91	3	2
423	5.77	3.83	.	3	2
424	2.02	0.60	0.38	6	1
426	6.20	1.12	1.07	3	2
429	3.41	1.57	1.84	3	2
431	6.58	0.30	.	6	2
433	5.13	0.02	.	3	2
434	4.84	1.38	1.53	4	1
435	6.31	1.66	1.86	3	2
436	5.93	1.34	.	3	2
437	3.62	0.97	0.74	9	1
440	3.95	0.99	0.69	3	2
441	5.82	1.08	.	3	2
442	4.72	1.00	0.76	2	1
443	6.17	0.06	0.09	3	2
444	6.59	-0.04	-0.11	3	2
445	5.51	1.02	.	3	2
447	6.28	0.46	.	3	2
448	5.76	0.64	0.21	6	2
458	4.10	0.54	0.06	8	1
460	6.01	0.38	.	6	2
461	5.56	1.38	1.43	4	1
462	5.69	0.33	.	3	2
464	3.57	1.28	1.44	4	1
466	6.24	0.53	0.00	6	2
467	6.11	0.97	0.70	3	2
471	5.94	1.05	.	3	2
472	(0.47)	-0.15	.	1	2
474	6.69	-0.08	.	3	2
477	4.94	-0.09	-0.41	2	1
479	6.84	0.44	.	3	2
483	4.96	0.62	0.11	6	1
485	5.99	1.01	0.84	4	1
486	5.07	0.88	.	3	2
489	4.44	1.36	1.56	3	1
493	5.24	0.84	0.49	9	1
494	6.17	0.42	.	3	2
496	4.06	-0.04	-0.93	5	1
498	5.72	-0.01	.	3	2
500	4.99	1.38	1.58	3	2
501	6.64	0.12	0.12	3	2
505	5.71	1.27	.	4	2
507	6.19	1.54	1.89	3	2
509	3.50	0.72	0.21	9	1
510	4.26	0.96	0.68	3	1
511	5.63	0.81	0.40	3	1
512	5.87	0.61	0.10	3	2
513	5.34	1.52	1.88	6	2
514	5.31	0.39	.	3	2
516	6.33	0.94	0.69	3	2
517	6.39	0.36	.	3	2
519	5.49	1.59	.	3	2
520	5.04	0.04	.	3	2
521	5.94	0.97	0.71	2	1
525	5.69	0.94	0.66	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
527	5.91	0.97	0.74	3	2
528	6.32	1.02	.	6	2
530	5.86	0.74	0.50	5	1
531	4.68	0.32	0.03	7	1
534	5.94	0.30	-0.03	5	1
535	6.37	0.52	.	3	2
537	6.14	1.01	.	6	2
539	3.72	1.14	1.06	3	1
541	5.94	0.14	.	3	2
542	3.38	-0.15	-0.62	4	1
544	3.42	0.48	0.06	5	1
545	3.88	-0.04	-0.13	2	1
547	5.80	0.27	.	3	2
549	4.63	0.94	0.70	3	1
550	6.07	0.33	0.07	3	2
553	2.65	0.13	0.10	9	1
555	4.41	1.59	1.70	6	2
557	5.67	1.06	0.91	2	1
558	5.11	-0.06	-0.15	6	2
560	6.01	0.56	0.04	3	2
566	3.70	0.85	0.46	6	2
569	4.79	0.28	0.09	3	1
570	4.69	0.95	0.64	3	2
571	6.06	0.37	.	3	2
573	6.10	0.48	.	6	2
574	4.83	0.88	0.52	6	2
575	4.54	0.16	0.06	3	1
576	6.35	1.02	.	3	2
580	3.98	-0.01	0.03	3	1
582	5.88	0.62	0.19	3	2
584	6.37	0.90	0.62	3	2
585	4.01	1.56	1.88	3	1
587	5.51	1.52	1.33	3	2
588	5.57	1.06	.	3	2
589	5.58	0.38	-0.27	3	1
590	5.04	-0.08	-0.32	3	1
591	2.87	0.28	0.14	3	2
593	6.16	0.44	0.01	3	2
594	5.35	0.88	.	3	2
595	3.82	0.02	-0.09	3	1
599	5.50	0.03	0.06	4	1
600	6.10	1.17	1.21	3	2
602	5.14	1.49	1.82	6	2
603	2.10	1.21	0.92	2	1
606	6.42	0.14	.	3	2
607	5.43	0.15	0.12	3	2
610	5.93	0.88	0.50	3	2
611	5.62	1.59	1.97	6	2
612	4.69	-0.17	-0.51	3	1
614	6.31	1.65	1.82	3	2
616	6.28	0.90	0.63	3	2
617	2.00	1.15	1.13	9	1
618	5.67	0.61	-0.02	7	1
620	4.83	0.12	0.14	3	1
622	3.00	0.14	0.11	4	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
627	6.35	0.33	-0.43	5	1
635	5.63	0.56	0.14	3	2
636	6.32	0.90	.	6	2
637	6.12	0.82	.	3	2
638	6.01	0.39	.	3	2
639	5.93	0.97	0.70	3	2
641	6.43	0.60	0.24	5	1
645	5.32	0.93	0.62	2	1
647	6.06	0.40	-0.07	4	1
648	5.70	1.55	1.95	5	1
649	4.37	0.88	0.60	2	1
650	5.51	0.58	0.09	3	2
652	5.28	-0.02	.	3	2
654	6.48	0.28	-0.66	5	1
656	5.79	0.44	0.04	3	1
658	6.55	-0.02	-0.07	3	2
659	5.91	0.97	.	6	2
660	4.87	0.61	0.02	4	1
664	4.01	0.02	0.02	3	1
666	5.51	0.96	0.75	3	2
667	5.55	1.55	1.84	3	2
672	5.56	0.61	0.09	2	1
674	3.56	-0.12	-0.39	6	2
678	5.69	1.30	1.48	3	2
681	3.04	1.42	1.09	1	1
683	6.34	0.73	.	3	2
684	6.50	0.08	0.09	6	2
685	5.17	0.37	-0.11	3	1
686	6.37	1.16	.	3	2
689	5.27	1.65	1.85	3	2
691	5.42	0.31	0.10	3	2
695	5.20	0.60	.	3	2
696	6.25	0.30	-0.62	9	1
698	6.31	1.00	.	3	2
699	4.70	1.53	1.90	3	1
700	6.53	1.61	.	3	2
701	5.92	0.22	.	3	2
704	6.33	0.00	-0.14	3	2
705	4.09	0.03	0.05	3	2
706	6.18	0.66	.	3	2
707	4.53	0.13	0.06	4	1
708	4.89	-0.02	-0.05	3	1
710	5.83	0.14	0.09	5	1
713	5.88	1.26	.	3	2
714	5.35	0.39	.	3	2
715	5.01	1.09	1.04	3	2
718	4.29	-0.06	-0.12	9	1
719	6.45	0.97	0.79	3	2
721	4.25	-0.14	-0.50	6	2
722	6.41	1.54	1.45	3	2
724	5.14	0.10	.	3	2
725	6.07	1.02	0.85	3	2
730	6.77	0.19	.	3	2
731	6.23	0.90	0.55	2	1
732	6.00	0.17	0.17	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
733	6.51	0.29	.	3	2
734	6.37	-0.04	-0.05	3	2
737	5.25	1.27	1.41	3	2
739	5.35	1.02	0.84	3	2
740	4.75	0.45	-0.01	3	1
742	6.30	1.02	.	3	2
745	6.21	1.10	.	3	2
749	4.89	-0.06	-0.13	2	1
751	6.18	1.06	0.88	3	2
752	5.75	1.40	1.65	6	2
753	5.82	0.97	0.80	9	1
754	4.86	0.86	0.53	4	1
759	5.53	1.59	1.93	6	2
762	6.77	-0.06	.	3	2
766	5.81	1.04	0.86	3	2
767	5.75	1.02	.	3	2
770	6.39	0.44	0.00	3	2
771	5.65	1.02	0.85	3	2
772	5.79	0.66	.	6	2
775	6.21	1.00	0.76	3	2
776	5.28	0.98	0.73	3	2
777	5.83	0.48	.	3	2
778	5.31	0.27	.	3	2
779	4.06	-0.21	-0.88	2	1
780	6.49	0.52	.	3	2
781	4.84	0.45	-0.01	2	1
783	6.25	0.40	-0.03	3	2
784	5.78	0.52	0.00	3	2
786	6.52	1.04	.	3	2
788	4.92	0.59	0.14	3	1
789	4.75	0.06	0.06	6	2
790	5.71	0.52	-0.02	3	2
794	4.11	1.02	0.74	9	2
795	6.05	1.16	1.14	3	2
797	6.30	0.06	0.06	4	1
798	6.55	-0.08	-0.24	3	2
799	4.13	0.49	0.00	5	1
801	4.67	-0.13	-0.63	3	1
804	3.47	0.09	0.07	9	1
805	6.01	0.92	.	3	2
806	4.11	-0.06	-0.14	3	2
807	6.10	0.88	.	6	2
810	5.41	0.56	.	3	2
811	4.25	-0.14	-0.45	4	1
813	4.27	0.31	0.07	5	1
814	6.36	-0.02	.	3	2
816	6.03	0.31	0.09	3	2
817	6.22	0.04	.	3	2
818	4.46	0.48	-0.01	2	1
821	6.15	0.09	.	3	2
822	6.85	1.36	.	3	2
823	6.26	0.53	0.01	3	2
824	4.52	1.11	1.03	2	1
825	6.26	0.88	0.50	9	1
826	6.49	0.38	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
827	6.47	0.39	.	3	2
834	3.79	1.69	1.89	2	1
837	4.84	0.06	0.09	3	2
838	3.63	-0.10	-0.38	4	1
840	4.23	0.34	0.08	5	1
841	4.46	0.99	0.69	6	2
843	4.53	1.55	1.93	4	1
844	6.14	1.07	.	3	2
845	5.39	0.02	.	3	2
850	4.77	0.90	0.61	3	1
852	5.26	0.10	.	3	2
853	6.36	0.05	.	3	2
854	3.93	0.75	0.46	3	1
857	6.05	0.87	0.56	4	1
858	6.40	0.48	.	3	2
859	6.32	0.19	0.12	6	2
862	5.95	1.04	.	3	2
863	5.92	0.44	.	3	2
866	6.03	1.25	.	6	2
870	5.97	0.48	0.06	3	2
872	4.75	1.33	1.56	3	2
874	3.87	1.12	0.99	3	1
875	5.17	0.08	0.05	9	1
877	6.11	1.69	1.80	3	2
878	5.80	0.41	0.01	3	1
879	4.70	0.06	0.12	2	1
880	6.56	1.39	1.59	3	2
882	4.94	1.25	1.28	2	1
883	5.45	0.23	.	3	2
887	4.63	0.04	0.08	4	1
889	5.84	1.33	.	3	2
890	5.28	-0.05	-0.45	3	1
891	6.74	0.00	-0.15	3	1
892	5.23	0.00	0.04	3	2
893	6.41	-0.03	.	3	2
895	6.15	0.22	.	3	2
896	4.70	-0.12	-0.45	3	1
897	2.91	0.12	0.12	6	2
899	5.56	-0.08	-0.19	3	2
900	6.14	1.04	.	3	2
901	5.71	0.40	.	6	2
903	6.31	0.00	.	3	2
904	6.11	1.77	2.07	3	2
906	5.95	0.15	0.09	4	1
907	5.75	1.05	0.87	6	2
908	6.25	1.05	0.82	3	2
909	4.99	0.13	0.15	3	2
910	5.62	-0.10	-0.41	3	2
911	2.53	1.64	1.93	6	1
912	5.83	1.11	.	3	2
913	6.19	0.60	0.15	3	2
914	5.89	0.79	.	3	2
915	2.93	0.70	0.45	6	1
917	5.32	0.94	0.73	3	2
919	4.09	0.16	0.08	6	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
921	3.39	1.65	1.79	5	1
925	5.26	0.20	0.09	6	2
926	6.05	1.04	0.85	3	2
932	4.88	0.02	0.05	3	1
934	5.11	0.34	.	3	2
935	5.27	1.60	1.77	3	2
936	2.12	-0.05	-0.37	8	1
937	4.05	0.60	0.12	8	1
939	5.53	-0.14	-0.51	3	2
941	3.81	0.98	0.83	3	1
942	6.28	1.06	0.88	3	2
943	6.19	0.16	.	3	2
946	6.02	1.28	1.28	2	1
947	4.64	1.11	1.02	3	1
949	6.33	1.43	1.64	2	1
951	4.37	1.03	0.86	3	1
953	6.38	0.93	.	6	2
955	6.05	1.66	1.93	3	2
957	6.26	1.20	.	3	2
958	5.56	1.08	0.64	3	2
959	6.15	1.02	0.83	3	2
960	6.12	1.12	.	3	2
961	5.45	0.19	0.11	1	1
962	5.06	0.57	0.12	3	2
963	3.85	0.51	0.05	2	1
965	5.61	0.92	0.49	2	1
968	5.93	0.44	.	3	2
970	6.27	-0.08	.	3	2
972	4.89	-0.02	-0.01	3	1
974	6.16	1.05	.	3	2
977	5.74	2.27	.	4	2
980	6.25	0.04	.	3	2
981	5.57	0.30	0.09	3	2
982	5.47	-0.06	-0.34	5	1
983	6.17	-0.02	-0.25	6	2
984	4.80	0.23	0.08	3	1
985	4.85	-0.15	-0.78	3	1
987	5.15	-0.06	-0.56	9	1
988	6.14	0.40	-0.04	6	2
989	5.03	-0.06	-0.53	5	1
990	6.65	-0.07	.	3	2
991	4.82	1.49	1.56	2	1
992	5.37	1.04	0.81	2	1
993	5.91	0.33	.	3	2
994	4.88	0.90	.	3	2
996	4.84	0.68	0.19	9	1
997	5.71	0.37	.	3	2
998	5.85	1.24	.	3	2
999	4.47	1.54	1.77	3	1
1002	4.95	0.04	0.07	3	1
1003	3.70	1.62	1.81	3	1
1004	5.61	1.66	.	3	2
1006	5.54	0.64	.	3	2
1007	5.69	0.97	0.76	3	2
1008	4.27	0.71	0.22	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1010	5.24	0.60	.	3	2
1011	5.28	-0.07	-0.53	9	1
1013	6.39	0.54	.	3	2
1014	6.05	0.13	0.10	3	2
1016	5.52	0.88	0.59	8	1
1017	1.79	0.48	0.38	9	1
1018	6.35	0.01	.	3	2
1021	6.39	1.00	.	3	2
1023	6.38	0.86	0.51	3	2
1024	6.20	0.70	0.16	6	2
1025	5.52	0.44	0.00	6	2
1029	6.09	-0.07	-0.50	3	1
1030	3.60	0.89	0.61	9	1
1031	6.51	1.37	.	6	2
1034	4.98	-0.10	-0.56	9	1
1035	4.21	0.41	-0.24	7	1
1037	5.58	-0.04	-0.44	9	1
1038	3.75	-0.09	-0.33	6	1
1040	4.54	0.56	-0.11	9	1
1042	6.39	0.08	.	3	2
1044	4.67	-0.09	-0.57	9	1
1045	5.93	0.94	.	6	2
1046	5.10	0.04	0.06	9	1
1047	6.24	0.13	-0.25	8	1
1049	6.32	0.06	.	6	2
1051	5.82	-0.04	-0.31	8	1
1052	4.38	1.34	1.53	3	1
1053	6.15	0.48	0.25	3	2
1054	5.71	1.29	.	6	2
1058	6.50	0.13	.	3	2
1060	5.99	1.02	0.87	3	2
1062	5.59	0.18	.	3	2
1063	5.47	-0.10	-0.56	8	1
1064	5.96	0.42	0.01	3	2
1066	4.10	1.13	1.02	3	1
1067	5.94	0.96	0.93	3	2
1069	5.32	0.41	-0.02	4	1
1070	4.73	-0.09	-0.26	3	1
1072	6.40	0.03	-0.73	3	1
1074	5.90	-0.06	-0.86	6	1
1075	5.78	0.22	.	3	2
1076	6.12	0.48	.	3	2
1079	5.77	-0.08	-0.30	3	2
1081	5.99	0.11	.	3	2
1082	6.38	0.12	.	3	2
1083	4.71	0.39	-0.04	6	2
1084	3.73	0.88	0.58	9	1
1087	4.23	-0.06	-0.56	9	1
1088	4.28	-0.12	-0.35	3	1
1089	6.49	0.63	0.16	3	2
1091	6.25	0.02	.	3	2
1092	5.83	-0.06	-0.33	3	2
1093	6.20	0.48	.	3	2
1099	5.71	0.92	0.46	3	2
1100	5.23	-0.13	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1101	4.28	0.57	0.08	3	1
1104	6.75	0.17	0.15	3	2
1106	4.58	1.04	0.77	6	2
1108	5.85	0.98	0.76	3	2
1109	5.70	0.93	0.65	3	2
1111	5.96	0.92	0.66	6	2
1114	6.01	-0.02	.	3	2
1115	5.57	0.94	0.67	3	2
1116	6.23	1.04	0.89	3	2
1119	6.12	1.00	0.77	3	2
1121	5.53	-0.15	-0.57	3	2
1122	3.01	-0.12	-0.51	9	1
1125	6.49	0.36	.	3	2
1128	6.59	0.09	.	3	2
1129	4.79	0.81	0.25	4	1
1131	3.83	0.05	-0.75	9	1
1132	6.14	1.01	0.74	2	1
1134	5.00	-0.16	-0.60	6	2
1135	3.77	0.42	0.32	4	1
1136	3.54	0.92	0.67	7	1
1138	5.44	0.09	0.12	2	1
1139	5.59	0.23	.	3	2
1140	5.46	-0.04	-0.33	8	1
1142	3.70	-0.12	-0.40	6	1
1143	4.59	1.20	1.31	6	2
1144	5.65	-0.07	-0.36	8	1
1145	4.30	-0.11	-0.46	7	1
1146	5.25	-0.10	-0.39	3	2
1148	4.66	0.03	0.07	4	1
1149	3.87	-0.07	-0.40	7	1
1150	5.55	1.42	1.72	3	2
1151	5.76	-0.04	-0.23	5	1
1152	6.43	-0.02	-0.15	7	1
1153	5.35	-0.11	-0.61	3	2
1154	6.29	1.15	1.03	3	2
1155	4.48	1.88	2.13	4	1
1156	4.18	-0.06	-0.42	6	1
1157	6.45	1.06	.	6	2
1159	5.91	1.00	0.75	3	2
1162	4.42	1.62	2.01	3	1
1163	6.57	0.08	-0.61	6	1
1165	2.87	-0.09	-0.35	9	1
1167	6.49	1.02	.	6	2
1168	6.30	1.04	.	6	2
1169	5.73	0.96	.	3	2
1171	5.90	0.12	.	3	2
1172	5.45	-0.07	-0.32	9	1
1173	4.23	0.42	0.01	3	1
1175	3.85	1.13	1.10	6	2
1178	3.62	-0.09	-0.36	7	1
1179	6.55	0.49	.	3	2
1180	5.09	-0.08	-0.28	8	1
1181	5.24	0.07	.	3	2
1182	5.91	1.24	1.31	3	2
1183	6.17	-0.05	-0.19	4	1

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1184	5.54	0.98	.	3	2
1185	6.07	-0.01	-0.32	2	1
1186	6.21	-0.10	.	3	2
1187	5.81	1.64	.	3	2
1189	4.27	-0.01	-0.04	6	2
1191	5.77	0.00	-0.81	6	1
1193	4.97	0.00	-0.84	3	1
1195	4.17	0.95	0.69	6	2
1199	5.67	0.06	-0.43	3	2
1200	6.86	-0.04	.	3	2
1201	5.97	0.34	0.00	6	1
1202	5.48	-0.10	-0.41	6	2
1203	2.85	0.12	-0.78	8	1
1204	5.04	-0.10	-0.16	2	1
1206	6.22	0.88	.	3	2
1208	3.25	1.62	1.98	3	2
1209	6.10	0.29	-0.81	9	1
1210	5.28	0.41	0.00	1	1
1211	4.45	0.68	0.42	3	1
1213	4.65	-0.13	-0.48	3	1
1214	5.11	-0.13	.	3	2
1215	5.49	-0.03	-0.75	6	1
1216	5.94	1.23	1.35	3	2
1217	6.00	0.32	.	3	2
1219	5.71	0.60	.	6	2
1220	2.89	-0.18	-1.00	8	1
1224	6.09	0.06	0.05	3	2
1225	6.19	0.28	.	3	2
1227	6.46	0.16	.	3	2
1228	4.04	0.02	-0.92	9	1
1231	2.94	1.60	1.98	6	1
1232	5.83	1.00	0.85	3	2
1233	6.37	0.42	0.00	4	1
1238	5.89	0.32	0.04	2	1
1239	3.41	-0.12	-0.63	3	1
1240	4.66	-0.14	-0.41	3	1
1242	5.08	0.50	0.49	3	1
1243	5.67	0.02	-0.41	3	2
1244	5.28	-0.15	-0.55	3	2
1245	6.05	0.44	.	3	2
1246	5.93	0.04	.	6	2
1247	4.56	1.62	1.95	3	2
1249	5.38	0.50	0.00	4	1
1250	6.51	1.64	.	6	2
1251	3.91	0.03	0.06	3	1
1253	5.33	-0.08	-0.56	3	2
1254	5.46	0.36	0.00	3	1
1256	4.37	1.07	0.95	3	1
1257	5.36	0.50	0.04	3	2
1258	6.46	-0.18	.	6	2
1261	4.29	0.02	-0.03	3	1
1262	5.90	0.62	0.12	4	1
1263	6.39	1.26	.	3	2
1264	4.51	1.64	1.80	3	2
1266	4.97	1.42	1.70	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1267	6.13	1.16	.	3	2
1271	6.41	-0.01	-0.10	3	2
1272	6.26	0.06	0.09	6	2
1273	4.03	-0.03	-0.55	7	1
1274	6.34	0.92	.	3	2
1275	5.58	0.32	.	3	2
1277	6.09	0.95	0.75	2	1
1279	6.01	0.40	0.02	3	1
1285	6.59	0.93	0.60	3	2
1290	5.44	0.94	0.67	3	2
1291	6.59	0.37	-0.01	3	2
1292	5.73	0.36	0.00	3	1
1293	5.70	1.06	0.93	3	2
1294	6.38	0.64	0.11	9	2
1298	4.05	0.33	0.14	3	1
1299	6.44	1.07	.	6	2
1300	5.79	0.18	.	3	2
1302	4.93	0.33	0.07	3	2
1303	4.15	0.95	0.64	4	1
1304	5.46	0.87	0.46	2	1
1306	4.71	1.01	0.65	3	1
1307	6.23	0.05	-0.34	3	2
1308	6.51	0.16	0.12	3	2
1309	5.29	0.36	0.00	3	1
1311	4.84	0.80	0.51	4	1
1312	6.45	-0.13	-0.56	3	2
1315	5.22	-0.10	-0.34	3	2
1316	6.71	1.47	1.80	3	2
1318	4.86	1.18	1.15	4	1
1319	6.32	0.40	0.02	2	1
1320	4.30	-0.05	-0.51	2	1
1321	6.93	0.70	0.22	3	2
1322	6.30	0.59	0.05	3	2
1323	6.37	1.46	.	6	2
1324	4.61	0.04	0.03	9	1
1325	4.43	0.82	0.44	9	1
1326	3.86	1.10	1.00	3	2
1327	5.27	0.81	0.47	6	1
1329	4.94	0.26	0.11	3	1
1330	5.45	0.22	0.12	6	1
1331	5.65	0.28	0.08	3	1
1332	5.94	1.08	0.94	3	2
1334	6.54	0.16	0.17	3	2
1336	3.35	0.91	0.62	3	2
1338	4.25	0.30	0.03	3	2
1340	5.45	1.10	.	3	2
1346	3.65	0.99	0.81	9	1
1347	3.56	-0.12	-0.37	6	2
1349	6.31	1.43	1.60	3	2
1350	4.86	-0.02	-0.53	2	1
1351	5.59	0.28	0.08	2	1
1353	6.07	0.30	.	3	2
1354	6.11	0.37	0.03	2	1
1355	4.44	1.08	1.07	6	2
1356	5.26	0.22	0.10	2	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1357	6.37	0.08	.	3	2
1358	6.17	0.46	0.02	2	1
1359	6.37	0.13	.	6	2
1360	5.77	0.92	0.68	3	2
1361	6.53	0.15	0.11	3	2
1362	6.27	0.91	0.56	3	2
1363	5.85	-0.13	-0.49	6	2
1364	5.34	1.08	0.94	3	2
1365	6.09	0.49	.	6	2
1366	5.86	1.32	1.52	3	2
1368	5.72	0.32	0.10	2	1
1373	3.76	0.99	0.82	9	1
1374	5.96	0.35	.	3	2
1376	5.64	0.30	0.14	2	1
1380	4.80	0.15	0.12	5	1
1381	5.12	0.07	0.11	4	1
1383	5.17	0.08	0.08	3	1
1384	5.83	1.51	.	3	2
1385	5.97	0.37	0.05	2	1
1386	6.39	1.24	.	6	2
1387	4.22	0.13	0.14	6	1
1388	5.28	0.25	0.10	4	1
1389	4.28	0.04	0.08	4	1
1391	6.46	0.49	0.02	2	1
1392	4.28	0.26	0.15	7	1
1393	3.96	1.49	1.80	6	2
1394	4.50	0.25	0.14	4	1
1396	4.69	0.98	0.72	3	1
1397	6.05	0.02	-0.42	3	2
1398	6.55	0.44	.	3	2
1400	6.23	1.09	1.03	3	2
1403	5.72	0.27	0.10	3	1
1404	6.39	0.44	.	3	2
1405	6.28	0.66	.	6	2
1408	5.90	0.32	0.06	3	1
1409	3.54	1.01	0.87	9	1
1410	6.11	0.14	.	6	2
1411	3.83	0.95	0.71	9	1
1412	3.39	0.18	0.12	9	1
1413	6.15	1.02	0.81	3	2
1414	5.03	0.23	0.12	3	1
1415	5.55	-0.10	-0.55	3	2
1416	5.95	1.54	.	3	2
1418	6.10	0.46	.	6	2
1421	5.96	1.22	.	3	2
1422	5.58	0.32	0.10	3	1
1423	5.60	-0.23	.	3	2
1426	5.69	0.84	0.53	3	2
1427	4.78	0.17	0.13	5	1
1428	5.48	0.26	0.10	3	1
1429	6.45	1.64	.	6	2
1430	5.41	0.26	0.10	4	1
1431	6.24	1.00	.	3	2
1432	6.02	0.34	0.04	3	1
1433	6.16	1.06	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1436	6.40	0.41	0.00	2	1
1437	4.91	1.31	1.43	3	1
1438	6.21	0.12	.	3	2
1439	5.96	1.00	.	3	2
1441	5.81	-0.14	-0.54	3	2
1443	5.07	-0.19	.	3	2
1444	4.65	0.25	0.08	6	1
1446	6.01	1.06	0.81	3	2
1448	5.68	0.05	0.12	4	1
1449	5.72	-0.13	-0.46	6	2
1450	6.09	1.38	1.64	6	2
1451	5.11	1.70	2.02	3	2
1452	5.27	1.46	1.70	2	1
1453	4.51	0.98	0.71	4	1
1454	4.27	1.22	0.79	2	1
1456	5.79	0.35	0.05	3	2
1457	0.86	1.54	1.92	9	1
1458	4.26	0.18	0.12	2	1
1459	6.02	0.38	0.02	2	1
1460	6.37	0.11	0.10	3	2
1461	6.13	1.17	.	6	2
1462	6.33	-0.10	-0.43	3	2
1463	3.92	-0.21	-0.89	2	1
1464	3.82	0.98	0.72	6	2
1465	3.27	-0.10	-0.35	6	2
1469	5.31	-0.12	-0.44	3	2
1472	5.79	0.31	0.06	2	1
1473	4.27	0.12	0.13	5	1
1474	5.23	0.28	0.04	3	2
1476	6.30	-0.10	.	6	2
1479	4.70	0.14	0.13	4	1
1480	5.39	0.25	0.12	2	1
1481	3.87	1.09	1.03	3	1
1483	5.01	0.08	.	3	2
1485	6.76	0.20	0.10	3	2
1487	5.45	1.06	.	3	2
1488	6.11	0.94	0.70	3	2
1495	5.58	0.92	.	3	2
1496	4.34	1.61	1.78	3	1
1497	4.29	-0.14	-0.57	2	1
1502	4.45	0.34	0.01	6	2
1503	5.05	0.37	.	3	2
1504	6.53	0.68	.	3	2
1505	6.00	0.63	0.33	3	2
1507	5.40	0.25	0.08	2	1
1508	5.91	-0.11	-0.81	6	2
1509	5.68	1.41	.	3	2
1513	5.53	0.02	.	3	2
1516	5.31	0.98	.	3	2
1517	6.01	1.21	1.32	3	1
1518	6.25	1.46	.	3	2
1519	5.37	0.19	0.13	3	1
1520	4.02	-0.16	-0.60	2	1
1521	5.72	1.47	.	6	2
1522	6.33	0.04	0.06	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1524	6.86	0.00	.	3	2
1525	6.19	0.19	.	3	2
1526	6.05	1.07	.	6	2
1531	6.05	1.10	0.95	6	2
1532	5.51	0.64	.	3	2
1534	6.03	1.19	1.14	3	2
1536	5.78	0.62	0.20	9	2
1538	5.77	0.55	.	3	2
1539	6.37	1.07	.	6	2
1540	6.46	1.08	.	3	2
1541	5.54	-0.12	-0.46	3	2
1542	4.29	0.03	-0.88	3	1
1543	3.19	0.45	-0.01	9	1
1544	4.35	0.01	0.03	2	1
1545	6.26	0.44	.	6	2
1547	5.11	0.21	0.12	3	1
1548	6.72	0.95	.	3	2
1551	4.77	1.41	1.58	3	1
1552	3.68	-0.16	-0.81	9	1
1553	6.11	0.08	-0.44	3	2
1557	6.07	0.37	.	6	2
1559	5.86	0.08	.	3	2
1560	4.40	0.23	0.18	3	1
1562	5.33	1.64	1.93	3	2
1563	5.23	0.33	.	6	2
1565	6.61	0.04	0.00	3	2
1566	6.37	0.29	0.06	2	1
1567	3.73	-0.19	-0.82	3	1
1568	4.47	-0.02	-0.02	6	1
1570	4.67	0.08	0.09	3	1
1571	5.33	1.22	1.18	3	2
1572	6.06	1.57	1.83	2	1
1573	6.06	0.41	-0.44	3	1
1574	5.99	-0.12	-0.56	3	2
1577	2.59	1.53	1.78	5	1
1578	6.50	0.02	-0.01	3	2
1579	5.70	0.96	.	3	2
1580	4.06	1.15	1.10	3	1
1581	5.72	0.88	.	3	2
1582	5.51	-0.13	-0.56	3	2
1583	6.72	0.27	.	3	2
1584	6.10	1.42	.	3	2
1591	6.23	0.42	0.06	3	2
1592	4.95	0.05	0.01	3	1
1595	6.15	-0.21	.	3	2
1596	6.35	0.10	0.11	3	2
1597	6.12	0.44	.	3	2
1598	6.41	1.63	1.96	6	2
1601	4.49	1.40	1.57	3	1
1603	4.03	0.93	0.63	3	1
1604	5.67	0.44	.	3	2
1605	2.99	0.54	0.33	9	1
1606	6.28	0.52	0.01	6	2
1609	6.07	-0.07	-0.28	3	2
1611	4.78	0.26	0.17	3	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1612	3.75	1.22	0.38	9	1
1613	6.32	0.28	0.04	3	2
1614	6.21	1.06	1.00	4	1
1617	4.81	-0.19	-0.75	2	1
1618	5.92	1.27	1.39	3	2
1619	6.24	-0.04	-0.40	3	2
1620	4.64	0.16	0.15	5	1
1621	4.92	-0.05	-0.14	3	1
1625	5.85	1.21	1.36	3	2
1628	5.02	1.07	0.97	6	2
1629	5.47	1.52	1.82	3	2
1631	6.03	0.88	.	3	2
1634	5.75	1.20	.	3	2
1635	5.94	1.17	.	3	2
1637	5.00	0.34	-0.01	3	1
1638	4.68	-0.05	-0.10	3	1
1640	6.41	-0.18	.	6	2
1641	3.18	-0.18	-0.67	9	1
1645	5.61	0.10	.	3	2
1646	6.05	-0.11	-0.53	3	2
1648	6.17	3.44	.	5	2
1649	5.39	0.42	.	3	2
1651	6.31	0.53	.	3	2
1652	4.55	1.20	1.20	6	2
1653	6.34	0.30	.	3	2
1654	3.19	1.46	1.77	6	1
1655	5.73	1.17	.	6	2
1657	5.14	-0.06	-0.18	2	1
1662	6.17	0.62	0.09	3	2
1663	5.01	1.46	.	3	2
1664	5.34	0.32	0.11	2	1
1665	5.97	0.60	.	3	2
1666	2.79	0.13	0.10	9	1
1670	6.01	0.27	0.04	2	1
1671	5.78	-0.06	-0.36	3	2
1672	5.43	0.24	0.14	2	1
1673	5.12	0.44	-0.05	2	2
1674	4.72	0.52	-0.04	6	2
1676	4.82	0.32	0.19	4	1
1677	5.31	1.00	0.77	3	2
1679	4.27	-0.20	-0.90	3	1
1680	6.52	1.08	.	3	2
1681	6.10	1.10	1.07	3	2
1682	6.29	1.51	1.87	3	2
1685	6.25	0.98	0.81	3	2
1687	5.90	0.46	0.04	3	2
1689	4.88	0.18	0.10	3	1
1690	6.67	-0.07	-0.34	2	1
1691	5.89	0.66	0.29	3	2
1694	6.41	1.25	.	6	2
1696	4.44	-0.09	-0.40	3	1
1697	5.91	0.96	0.72	6	2
1698	4.45	1.19	1.14	4	1
1699	6.57	1.62	.	6	2
1700	6.27	-0.01	0.01	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1701	6.09	0.42	0.28	3	2
1702	3.29	-0.11	-0.39	4	1
1703	6.32	1.46	1.34	3	2
1704	6.37	-0.13	-0.54	3	2
1705	4.36	-0.10	-0.34	3	1
1708	0.08	0.80	0.45	6	1
1709	5.50	1.37	1.55	3	2
1710	6.21	0.37	.	3	2
1713	0.13	-0.03	-0.65	6	1
1716	5.85	0.93	0.64	3	2
1717	6.15	0.39	-0.03	3	2
1721	5.76	1.01	.	6	2
1723	5.07	-0.10	.	3	2
1724	6.42	-0.02	0.02	2	1
1726	4.54	1.27	1.27	3	1
1727	6.05	1.39	.	3	2
1729	4.71	0.62	0.13	5	1
1730	6.66	0.15	.	6	2
1735	3.59	-0.12	-0.46	3	1
1737	5.51	0.93	.	3	2
1740	5.03	0.27	0.44	2	1
1742	6.49	1.21	.	9	2
1743	4.83	1.00	0.79	6	2
1744	(4.82)	1.29	.	1	2
1746	5.34	0.41	0.08	4	2
1747	5.96	0.58	.	3	2
1748	6.35	-0.11	-0.75	3	1
1756	4.29	-0.25	-1.01	2	1
1758	5.99	-0.04	.	3	2
1759	6.39	-0.03	-0.36	3	2
1761	6.65	-0.08	-0.45	2	1
1762	4.71	-0.05	-0.10	2	1
1763	5.80	-0.13	-0.88	3	1
1764	5.69	-0.11	-0.66	3	1
1765	4.74	-0.16	-0.79	7	1
1766	6.34	0.33	.	3	2
1767	5.45	0.51	.	3	2
1770	5.00	-0.15	-0.87	5	1
1772	6.11	-0.19	.	3	2
1777	6.35	0.12	0.09	3	2
1778	5.99	-0.03	-0.36	6	2
1781	5.70	-0.21	-0.88	9	1
1782	6.11	0.51	0.02	3	2
1783	5.25	-0.21	.	3	2
1784	4.12	0.96	0.70	2	1
1785	6.49	0.50	.	3	2
1786	6.32	-0.15	-0.63	3	1
1787	5.09	0.96	0.68	3	2
1788	3.35	-0.17	-0.93	6	1
1789	4.96	-0.20	-0.92	5	1
1790	1.64	-0.22	-0.88	9	1
1791	1.65	-0.13	-0.49	9	1
1792	5.65	0.00	.	3	2
1793	5.71	1.62	.	3	2
1794	6.15	1.45	1.68	9	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1797	6.82	1.04	.	6	2
1799	5.61	1.56	.	3	2
1800	6.57	-0.05	-0.18	3	2
1801	6.11	-0.10	.	3	2
1803	6.16	-0.18	-0.75	3	1
1806	6.23	-0.05	-0.24	2	1
1807	6.42	-0.03	-0.03	3	2
1810	4.89	-0.14	-0.77	3	1
1811	4.59	-0.20	-0.94	5	1
1812	5.65	0.44	.	3	2
1815	6.51	1.11	1.00	3	2
1820	6.44	-0.17	-0.75	2	1
1823	6.07	1.04	.	3	2
1826	6.39	-0.01	-0.06	3	2
1827	5.87	0.23	.	3	2
1829	2.84	0.82	0.47	4	1
1830	5.78	1.15	0.99	2	1
1833	5.78	-0.20	-0.84	4	1
1834	4.71	1.57	1.85	9	2
1835	5.57	0.02	.	3	2
1836	5.14	1.00	.	3	2
1837	6.21	1.27	1.38	3	2
1839	4.20	-0.13	-0.56	6	1
1840	6.32	-0.19	-0.84	3	1
1842	5.46	-0.17	-0.83	3	1
1843	4.77	0.35	-0.44	2	1
1845	4.35	2.06	2.21	3	1
1848	6.21	-0.18	-0.74	2	1
1849	5.55	0.00	.	3	2
1852	2.24	-0.22	-1.06	8	1
1855	4.62	-0.26	-1.07	9	1
1856	5.46	0.62	.	6	2
1859	6.03	0.34	0.03	3	2
1861	5.35	-0.19	-0.93	9	1
1862	3.87	1.14	1.08	6	2
1863	6.53	-0.10	-0.65	2	1
1865	2.57	0.20	0.25	5	1
1867	6.59	1.53	.	3	2
1868	5.34	-0.18	-0.90	8	1
1870	5.86	1.35	.	3	2
1871	6.58	-0.16	-0.80	4	1
1872	5.36	0.05	0.07	3	1
1873	6.20	-0.16	-0.81	3	1
1874	5.93	1.55	1.87	3	2
1876	4.41	-0.15	-0.98	3	1
1877	5.48	1.22	.	3	2
1879	3.39	-0.19	-1.03	5	1
1882	6.19	0.22	0.16	3	2
1886	5.67	-0.24	-0.91	3	1
1887	4.79	-0.25	-1.02	5	1
1890	6.57	-0.13	-0.76	3	1
1891	6.25	-0.15	-0.70	2	1
1892	4.59	-0.19	-0.94	6	1
1893	6.72	0.00	-0.87	2	1
1895	5.13	0.00	-0.95	4	1

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1896	6.70	0.08	-0.82	3	1
1897	5.08	-0.11	-0.94	9	1
1898	6.31	-0.13	-0.71	3	1
1899	2.77	-0.24	-1.07	9	1
1900	6.40	-0.12	-0.64	3	1
1901	5.27	0.23	0.17	3	1
1903	1.69	-0.18	-1.03	9	1
1905	5.54	0.22	0.10	2	1
1906	6.50	-0.16	-0.82	1	1
1907	4.09	0.95	0.66	4	1
1908	5.90	1.60	1.93	2	1
1909	5.78	1.12	.	3	2
1910	3.03	-0.19	-0.62	4	1
1911	5.74	-0.22	-0.91	2	1
1912	6.43	0.55	.	3	2
1913	6.12	-0.17	-0.82	3	2
1917	5.34	1.04	0.85	6	2
1918	6.06	-0.21	-0.92	2	1
1919	6.11	0.05	.	3	2
1920	5.88	-0.07	-0.37	3	2
1923	6.19	-0.04	-0.72	3	2
1925	6.23	0.84	0.51	3	1
1927	6.11	1.16	.	6	2
1931	3.80	-0.24	-1.01	6	1
1933	5.96	-0.23	-0.91	3	2
1934	4.59	-0.11	-0.76	5	1
1935	5.31	0.46	0.10	2	1
1936	6.32	0.85	.	6	2
1937	4.81	0.13	0.10	5	1
1938	6.04	0.05	-0.21	9	1
1940	6.00	0.27	0.01	3	2
1942	6.49	-0.10	-0.47	3	2
1946	4.86	-0.12	-0.64	3	1
1948	1.77	-0.21	-1.06	7	1
1950	6.22	-0.20	-0.87	3	2
1952	4.95	-0.21	-0.83	6	2
1953	5.19	1.13	1.18	3	2
1955	5.93	0.30	0.04	3	2
1956	2.64	-0.12	-0.46	6	2
1958	5.45	0.92	.	6	2
1959	6.42	0.30	0.07	3	2
1960	6.31	-0.07	-0.15	3	2
1962	6.21	-0.13	.	3	2
1963	4.90	1.17	1.06	5	1
1964	5.79	1.71	1.83	6	2
1967	5.97	0.44	-0.02	3	2
1968	5.87	0.11	.	3	2
1970	6.31	1.47	1.76	3	2
1971	5.47	0.03	0.07	3	1
1972	6.19	0.01	.	3	2
1975	5.73	-0.01	.	3	2
1977	6.96	3.03	.	4	2
1978	6.09	0.31	0.09	3	2
1980	6.34	0.58	.	6	2
1982	6.15	0.94	0.74	3	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1983	3.60	0.47	0.01	7	1
1984	6.39	0.29	.	6	2
1986	6.25	1.03	0.81	6	2
1987	5.79	0.88	0.58	3	2
1988	5.95	0.78	0.41	3	2
1991	6.05	-0.02	-0.33	3	2
1995	4.53	0.94	0.70	7	1
1996	5.17	-0.28	.	3	2
1998	3.55	0.10	0.07	9	1
1999	5.27	0.23	0.17	3	2
2001	6.03	0.16	.	3	2
2004	2.05	-0.18	-1.02	6	1
2007	5.97	0.64	0.10	3	2
2008	5.31	1.04	.	3	2
2009	6.32	1.18	.	3	2
2010	4.91	-0.07	-0.16	9	1
2011	4.74	1.62	1.93	3	1
2012	3.97	1.14	1.09	2	1
2014	5.80	0.87	0.62	3	2
2015	4.35	0.21	0.12	3	2
2018	6.25	1.75	2.02	4	1
2019	5.97	1.36	1.57	3	2
2020	3.85	0.17	0.10	6	2
2021	5.49	0.88	.	3	2
2022	5.65	0.60	0.11	6	2
2023	6.18	1.40	.	3	2
2024	5.98	0.91	0.30	3	2
2026	5.87	0.06	.	6	2
2029	5.00	0.05	0.12	2	1
2031	5.35	-0.20	-0.83	6	2
2034	4.59	-0.02	0.03	4	1
2035	3.85	0.98	0.71	2	1
2036	6.17	1.02	.	3	2
2037	4.78	1.38	1.46	6	2
2039	5.97	0.10	0.08	3	2
2040	3.12	1.16	1.21	6	2
2042	4.51	1.10	0.98	6	2
2043	6.45	1.48	.	3	2
2044	6.35	0.76	.	3	2
2047	4.41	0.59	0.07	9	1
2049	5.17	0.99	0.72	6	2
2051	6.31	1.29	1.47	3	2
2056	4.87	-0.15	-0.56	6	2
2057	6.01	1.34	1.44	3	2
2058	6.57	-0.18	-0.81	3	2
2059	6.20	-0.02	-0.11	3	2
2061	0.42	1.84	2.11	5	1
2062	6.53	1.08	0.97	3	2
2064	5.11	-0.14	-0.49	3	2
2065	5.66	1.53	1.84	2	1
2067	6.60	0.65	0.13	4	1
2068	6.36	0.37	.	3	2
2070	5.87	1.18	1.21	3	2
2071	6.28	0.06	0.07	3	2
2072	5.94	0.66	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2073	6.36	0.86	0.57	3	2
2074	6.02	0.39	-0.20	3	1
2075	5.99	-0.07	-0.15	3	2
2077	3.72	0.99	0.91	5	1
2083	6.52	0.90	.	6	2
2084	4.82	-0.06	-0.93	6	1
2085	3.72	0.33	0.01	7	1
2087	4.97	1.11	.	3	2
2088	1.90	0.03	0.05	6	1
2089	6.10	-0.13	.	3	2
2091	4.25	1.72	1.83	3	1
2093	6.22	1.48	1.84	3	2
2094	5.29	0.31	.	3	2
2095	2.62	-0.08	-0.18	3	1
2097	6.22	1.14	1.20	3	2
2098	6.44	1.07	.	6	2
2100	5.89	0.22	0.16	3	2
2102	4.65	1.05	0.96	6	2
2103	5.22	0.01	0.01	3	2
2104	6.63	0.38	0.10	3	2
2106	4.36	-0.18	-0.66	6	2
2107	6.11	0.29	0.10	3	2
2108	5.04	0.19	0.16	6	2
2109	6.63	-0.07	-0.39	3	2
2111	6.05	0.25	-0.26	3	1
2113	4.52	1.22	1.21	3	1
2114	6.45	1.48	.	3	2
2118	6.22	0.36	.	6	2
2119	6.10	0.97	0.78	2	1
2120	3.96	1.14	1.08	6	2
2124	4.13	0.16	0.11	6	1
2125	5.47	-0.08	-0.24	3	2
2127	6.59	-0.05	-0.27	3	2
2128	4.94	-0.12	-0.58	3	1
2129	6.05	0.02	.	3	2
2131	5.55	1.58	.	3	2
2134	4.15	0.87	0.52	2	1
2135	4.63	0.28	-0.68	6	1
2136	6.20	0.96	.	3	2
2138	5.67	0.20	.	3	2
2140	5.05	1.34	.	3	2
2142	5.21	-0.06	-0.85	3	2
2144	5.67	1.04	0.82	3	2
2145	5.63	1.04	0.74	3	2
2148	4.93	0.24	.	3	2
2149	5.65	-0.19	.	3	2
2150	5.87	0.36	.	3	2
2153	6.36	1.05	0.82	2	1
2154	5.38	-0.13	-0.54	6	2
2155	4.67	0.05	0.00	3	1
2157	6.35	0.52	.	6	2
2158	5.93	0.49	.	6	2
2159	4.42	-0.15	-0.67	2	1
2160	5.80	0.02	.	3	2
2161	6.66	-0.15	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2162	6.57	0.72	.	3	2
2163	5.47	0.08	.	3	2
2164	5.81	0.05	.	3	2
2167	6.55	-0.08	-0.17	3	2
2173	5.76	0.20	-0.64	3	1
2174	5.73	0.07	0.05	3	2
2177	5.02	-0.11	.	3	2
2178	6.51	1.16	.	3	2
2179	6.17	0.34	0.01	3	2
2180	5.50	-0.01	.	3	2
2182	6.35	-0.03	.	3	2
2183	5.56	1.16	.	3	2
2186	5.71	0.44	.	3	2
2194	5.71	-0.03	-0.07	3	2
2195	6.15	0.01	0.03	6	2
2198	4.92	-0.12	-0.59	2	1
2199	4.48	-0.17	-0.66	3	1
2202	6.18	-0.08	-0.37	6	2
2204	6.49	0.52	.	3	2
2205	5.05	-0.20	-0.78	6	2
2206	6.09	-0.04	.	3	2
2209	4.80	0.03	0.00	4	1
2210	6.62	0.05	0.08	3	2
2211	6.31	-0.03	.	3	2
2213	6.53	-0.16	.	3	2
2216	3.28	1.61	1.66	3	1
2218	5.83	0.94	0.64	3	2
2219	4.35	1.01	0.81	7	1
2220	5.20	0.44	0.00	3	1
2221	5.06	-0.08	-0.21	3	2
2222	5.90	-0.24	-0.96	3	1
2224	5.83	-0.17	-0.65	3	2
2225	6.39	0.72	.	3	2
2227	3.96	1.31	1.42	3	1
2228	6.52	0.27	0.09	3	1
2230	6.09	0.90	0.62	3	1
2231	6.07	-0.13	-0.52	3	2
2232	6.64	-0.17	-0.65	3	2
2233	5.65	0.50	0.00	2	1
2234	5.99	0.09	0.10	6	2
2236	6.37	0.46	-0.01	3	2
2237	6.10	-0.08	-0.31	3	2
2238	4.48	0.01	0.03	4	1
2239	6.39	1.11	1.12	2	1
2240	6.25	0.45	-0.39	6	1
2241	5.04	0.42	-0.02	3	1
2244	5.01	-0.09	-0.24	2	1
2245	5.01	1.61	1.85	3	2
2246	6.63	-0.05	-0.44	3	2
2247	5.39	0.10	0.09	3	2
2248	6.57	-0.13	-0.51	3	2
2249	5.94	-0.17	.	3	2
2251	5.71	0.61	0.10	3	2
2252	6.67	1.55	.	6	2
2254	6.04	0.59	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2256	4.37	1.00	0.83	6	2
2259	6.24	0.87	0.52	3	2
2260	5.14	1.30	.	3	2
2261	5.09	0.72	0.33	6	2
2262	6.00	0.16	.	3	2
2264	5.36	0.43	0.12	4	1
2267	5.36	1.24	1.32	3	2
2268	6.07	1.66	.	3	2
2270	6.22	-0.04	-0.14	3	2
2271	5.81	-0.15	.	3	2
2273	5.26	-0.19	-0.75	6	2
2274	6.43	0.59	.	3	2
2275	4.90	1.60	1.96	3	2
2278	6.41	1.45	.	3	2
2280	6.31	0.24	0.09	3	2
2279	5.78	-0.08	.	3	2
2281	7.04	0.83	.	3	2
2282	3.02	-0.18	-0.72	3	1
2283	6.64	0.56	0.01	3	2
2286	2.87	1.64	1.85	3	1
2288	5.52	-0.19	.	3	2
2290	6.60	0.66	.	6	2
2291	5.64	0.24	0.12	3	1
2292	6.41	-0.05	-0.63	3	2
2294	1.97	-0.24	-0.96	8	1
2295	6.67	0.06	0.02	3	2
2296	3.85	0.38	0.52	6	2
2298	4.31	0.20	0.14	2	1
2300	6.26	-0.08	-0.31	3	2
2301	6.29	1.84	2.05	3	2
2305	5.22	1.24	.	3	2
2308	6.23	2.34	3.51	2	1
2309	6.12	-0.08	.	3	2
2311	5.53	1.56	.	3	2
2312	6.66	-0.04	-0.22	3	2
2313	5.87	0.56	0.08	6	2
2315	6.51	-0.03	-0.06	3	2
2316	5.62	1.04	.	3	2
2317	6.35	1.02	0.77	3	2
2318	6.39	0.62	.	3	2
2320	5.61	0.23	.	3	2
2321	6.40	0.14	0.12	9	2
2322	5.98	1.04	.	3	2
2323	6.31	-0.05	.	3	2
2324	5.87	0.08	0.09	3	2
2325	6.15	-0.14	-0.62	6	2
2326	-0.75	0.15	.	2	2
2327	6.71	0.04	0.00	3	2
2328	6.27	-0.04	-0.10	3	2
2329	6.25	1.36	.	3	2
2331	5.88	0.94	0.66	2	1
2333	5.55	1.04	0.86	3	2
2334	5.20	1.18	1.13	3	2
2335	5.55	1.38	1.61	3	2
2336	6.48	0.12	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2341	6.51	1.70	.	3	2
2343	4.14	-0.14	-0.49	3	1
2344	5.05	-0.18	-0.76	3	1
2345	5.80	0.00	.	3	2
2347	6.48	-0.07	-0.16	3	2
2348	5.76	-0.06	-0.17	3	2
2349	6.07	0.54	.	3	2
2352	5.56	1.51	1.82	3	2
2354	6.46	0.66	.	6	2
2355	6.16	1.54	1.85	3	2
2356	3.76	-0.15	-0.74	2	1
2359	5.77	1.12	.	3	2
2360	6.26	-0.13	.	3	2
2361	4.48	-0.17	-0.61	6	2
2362	6.57	0.14	-0.06	3	2
2367	5.93	1.38	.	3	2
2368	6.32	0.40	.	3	2
2369	5.82	1.28	.	3	2
2370	6.15	-0.08	-0.87	3	1
2373	6.16	-0.15	.	3	2
2377	5.38	0.97	0.67	6	2
2380	5.94	-0.15	.	3	2
2381	5.43	1.38	1.52	6	2
2382	5.83	1.00	0.78	9	1
2385	4.50	0.00	-0.17	7	1
2386	5.60	0.25	0.07	6	2
2387	4.33	-0.24	-0.98	3	1
2389	5.22	1.09	.	3	2
2390	6.20	1.40	.	3	2
2392	6.24	1.11	0.78	2	1
2395	5.10	-0.13	-0.56	3	2
2397	5.69	-0.17	.	3	2
2400	5.60	0.54	.	3	2
2404	6.45	-0.02	-0.03	3	2
2405	5.29	2.60	.	5	2
2408	6.29	0.33	0.06	3	2
2409	5.80	0.00	-0.46	3	2
2410	6.15	-0.15	.	3	2
2411	5.42	1.44	.	3	2
2413	6.55	-0.06	-0.28	3	2
2414	4.54	-0.06	-0.01	3	1
2415	5.62	-0.08	.	3	2
2416	6.19	1.09	.	6	2
2418	5.52	-0.08	-0.39	6	2
2421	1.92	0.00	0.05	9	1
2422	6.06	0.05	-0.88	6	1
2427	4.79	1.23	1.30	4	1
2428	5.97	1.56	.	3	2
2429	3.92	1.05	1.00	2	1
2430	6.17	1.08	0.96	3	2
2431	6.35	0.48	.	6	2
2432	6.15	0.14	-0.73	6	1
2433	6.35	-0.11	.	3	2
2435	4.39	-0.02	-0.15	6	2
2437	6.12	1.00	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2440	6.14	1.48	1.77	3	2
2441	6.57	-0.07	-0.33	3	2
2442	6.21	0.15	-0.82	3	2
2443	4.42	1.15	1.04	6	1
2447	5.28	1.18	.	3	2
2450	4.81	1.49	1.68	2	1
2451	3.17	-0.11	-0.41	3	2
2454	6.51	-0.14	-0.47	3	2
2455	6.05	-0.03	-0.06	3	2
2456	4.66	-0.24	-1.07	9	1
2459	5.02	1.48	1.83	2	1
2460	5.71	1.14	.	3	2
2461	5.79	-0.10	-0.37	3	2
2462	4.93	0.87	0.59	3	2
2467	6.37	-0.05	-0.94	8	1
2468	6.18	0.62	.	3	2
2469	5.19	1.54	1.89	3	2
2470	4.87	0.08	0.08	2	1
2473	2.98	1.40	1.46	7	1
2474	6.19	1.37	1.61	3	2
2475	6.12	-0.14	.	6	2
2478	4.49	1.16	1.17	3	1
2479	5.91	-0.02	-0.89	2	1
2481	6.13	0.35	.	3	2
2484	3.36	0.43	0.06	5	1
2491	-1.46	0.00	-0.04	5	1
2493	6.45	0.54	.	3	2
2494	5.93	-0.17	-0.69	3	2
2497	6.53	-0.12	.	3	2
2500	5.92	0.48	.	6	2
2501	5.80	-0.19	.	3	2
2502	5.66	-0.05	-0.11	6	2
2503	4.77	1.40	1.65	3	2
2504	5.29	-0.04	.	3	2
2505	6.51	1.11	1.06	3	2
2506	4.46	1.11	1.04	6	1
2507	6.62	-0.12	.	3	2
2508	5.07	1.80	1.88	3	2
2509	6.08	-0.19	-0.62	9	1
2510	6.22	-0.13	.	3	2
2514	5.75	0.28	0.05	3	2
2516	5.02	1.27	1.35	2	1
2517	6.15	-0.13	-0.68	3	2
2518	5.26	-0.08	.	3	2
2521	5.75	-0.10	-0.47	3	2
2522	5.39	-0.10	.	3	2
2523	5.40	1.34	.	3	2
2524	6.46	0.86	.	6	2
2526	5.61	1.52	.	3	2
2527	4.55	1.36	1.66	3	1
2530	5.77	0.39	-0.07	6	2
2531	6.37	0.96	0.66	3	2
2534	6.31	0.00	0.02	3	2
2535	5.79	1.44	.	3	2
2536	6.11	1.33	1.50	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2538	3.95	-0.23	-0.93	2	1
2540	3.60	0.10	0.14	6	1
2543	6.38	0.04	0.09	3	2
2546	6.55	1.51	1.82	3	2
2548	5.14	0.44	-0.03	3	2
2549	4.99	1.38	.	3	2
2550	3.27	0.21	0.13	6	2
2551	5.77	0.26	0.10	3	2
2552	6.30	0.99	0.76	3	2
2553	2.93	1.20	1.21	6	2
2554	4.40	0.92	0.61	6	2
2559	5.64	0.20	0.15	6	2
2560	4.35	0.85	0.52	3	1
2562	6.11	0.46	.	3	2
2564	4.65	0.30	0.07	3	1
2570	6.41	0.17	0.16	6	2
2571	4.83	-0.21	-0.96	3	1
2572	5.45	0.18	0.16	3	2
2574	4.08	1.43	1.69	6	1
2575	6.52	0.42	0.11	3	2
2576	6.03	0.72	.	3	2
2577	6.21	0.56	-0.35	3	2
2579	6.46	-0.10	-0.38	3	2
2580	3.92	1.71	2.00	3	1
2582	6.04	1.10	0.85	3	2
2584	6.29	0.04	0.06	3	2
2585	4.90	0.03	0.05	7	1
2590	4.69	0.36	0.06	2	1
2591	6.32	2.24	.	5	2
2592	6.41	0.18	.	3	2
2593	5.00	1.18	.	3	2
2594	6.26	0.99	.	6	2
2595	5.29	-0.18	.	3	2
2596	4.37	-0.06	-0.69	5	1
2599	6.34	0.64	0.26	3	2
2600	5.99	1.23	1.16	2	1
2602	5.40	-0.11	-0.38	3	2
2603	6.60	-0.19	.	3	2
2604	6.29	1.29	.	3	2
2606	6.27	0.11	0.10	3	2
2607	5.46	0.36	0.03	2	1
2608	4.95	1.69	1.92	6	2
2609	5.07	1.63	1.97	5	1
2610	5.97	1.06	0.88	3	2
2612	6.23	0.46	.	6	2
2613	6.35	-0.11	-0.47	3	2
2616	5.59	-0.16	-0.70	3	2
2618	1.50	-0.21	-0.92	7	1
2619	5.06	-0.16	.	3	2
2621	6.43	-0.13	.	3	2
2622	6.30	0.57	0.09	6	2
2624	5.96	-0.08	-0.34	6	2
2626	6.22	0.00	-0.06	3	2
2627	6.49	0.22	-0.75	3	2
2628	6.52	-0.16	.	3	2

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2629	6.63	0.06	0.10	3	2
2633	6.59	-0.02	-0.64	3	2
2634	6.27	1.16	.	3	2
2636	6.17	1.28	1.36	3	2
2638	6.45	0.39	.	3	2
2639	5.21	1.68	2.04	3	2
2640	5.63	-0.17	.	3	2
2646	3.43	1.72	1.87	3	1
2647	5.97	0.12	0.11	3	2
2648	5.00	-0.20	-0.93	4	1
2653	3.01	-0.08	-0.79	4	1
2654	6.57	0.01	-0.07	3	2
2655	5.62	1.29	1.24	6	2
2656	6.45	-0.08	-0.31	6	2
2657	4.12	-0.11	-0.47	4	1
2658	6.43	-0.04	-0.09	3	2
2661	6.02	0.30	.	3	2
2662	5.17	1.40	1.65	6	2
2663	5.78	1.52	1.87	3	2
2666	5.20	0.20	.	3	2
2667	5.28	0.66	.	3	2
2670	6.49	-0.05	-0.88	3	2
2672	4.93	0.14	.	3	2
2674	5.49	-0.11	.	3	2
2676	6.11	0.14	-0.45	3	2
2677	6.13	0.37	.	3	2
2678	5.39	0.05	-0.84	3	2
2679	6.47	-0.10	-0.98	2	1
2682	5.75	1.18	1.08	3	2
2685	6.11	0.70	.	3	2
2689	5.45	0.05	-0.07	3	2
2693	1.84	0.67	0.55	9	1
2694	6.21	0.03	-0.88	2	1
2697	4.42	1.26	1.41	3	1
2699	6.03	0.06	.	3	2
2701	4.92	1.03	0.78	5	1
2702	4.83	-0.18	-0.69	3	2
2706	5.86	0.37	.	9	1
2707	5.46	0.29	0.14	3	1
2710	6.09	-0.02	-0.05	3	2
2712	6.47	1.04	0.87	3	2
2713	6.16	1.14	0.97	3	2
2714	4.15	0.00	0.04	3	1
2719	5.15	1.24	.	3	2
2720	6.10	0.27	.	3	2
2721	5.58	0.58	0.03	2	1
2725	5.82	1.56	1.83	2	1
2726	5.97	-0.14	.	3	2
2727	5.31	0.06	0.09	3	2
2729	5.35	1.19	1.18	3	2
2731	5.75	1.58	1.88	3	2
2732	5.91	1.52	1.70	3	2
2733	6.27	-0.13	.	3	2
2734	6.12	-0.25	.	3	2
2735	3.62	0.91	0.60	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2739	6.04	-0.18	-0.96	9	1
2740	4.49	0.32	-0.01	6	2
2741	6.61	-0.17	.	3	2
2744	6.41	0.90	0.57	6	2
2745	4.65	-0.20	-0.69	3	1
2746	4.90	-0.02	.	3	2
2747	5.82	1.60	1.69	3	2
2748	5.10	1.56	.	4	2
2749	3.82	-0.18	-0.73	3	1
2751	5.05	0.08	0.09	5	1
2754	6.02	-0.02	.	3	2
2756	5.35	-0.17	.	3	2
2760	6.65	-0.11	-0.41	3	2
2762	4.76	-0.10	-0.29	3	2
2763	3.58	0.12	0.09	9	1
2764	4.78	1.70	1.87	5	1
2765	6.29	1.62	1.96	6	2
2766	4.60	1.60	1.89	3	1
2767	5.97	1.10	.	3	2
2769	5.79	-0.12	.	3	2
2770	5.03	-0.17	-0.69	3	2
2771	5.66	1.44	.	6	2
2773	2.70	1.62	1.24	6	2
2777	3.53	0.34	0.04	9	1
2778	5.89	1.07	0.82	3	2
2779	5.91	0.53	0.07	3	2
2781	4.95	-0.15	-0.99	4	1
2782	4.40	-0.15	-0.99	9	1
2785	6.09	0.62	0.34	3	2
2786	5.28	0.96	0.65	3	2
2787	4.67	-0.10	-0.79	9	2
2790	5.11	-0.16	-0.66	6	2
2798	6.55	0.54	0.04	3	2
2799	6.61	-0.15	.	3	2
2801	5.99	-0.07	-0.30	3	2
2803	3.98	0.79	0.45	3	2
2806	6.44	-0.19	-1.04	3	1
2807	6.23	0.68	0.35	3	2
2811	5.82	0.35	0.19	6	2
2812	4.96	-0.05	-0.38	8	1
2813	5.52	0.49	.	3	2
2818	4.64	-0.02	-0.01	3	1
2819	5.43	-0.14	.	3	2
2821	3.79	1.04	0.85	4	1
2823	5.39	-0.18	.	3	2
2824	6.60	-0.19	.	3	2
2826	6.21	-0.10	.	3	2
2827	2.44	-0.09	-0.71	5	1
2828	4.99	1.01	0.78	3	1
2832	5.78	0.42	.	3	2
2833	5.97	0.92	0.62	6	2
2834	5.35	1.08	.	3	2
2838	6.76	-0.01	-0.11	6	2
2839	6.05	0.23	.	3	2
2841	5.78	-0.10	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2845	2.89	-0.09	-0.27	4	1
2847	6.31	-0.17	.	3	2
2848	6.47	0.42	-0.07	3	2
2849	5.36	0.45	-0.06	4	1
2851	5.25	0.22	0.17	3	2
2852	4.18	0.32	-0.02	9	1
2854	4.30	1.43	1.53	4	1
2859	5.79	0.58	.	3	2
2862	5.10	1.06	.	3	2
2864	4.55	1.29	1.37	3	1
2865	5.59	1.50	1.76	3	2
2866	5.86	0.48	-0.02	6	2
2867	5.75	1.62	.	3	2
2868	6.04	0.48	.	3	2
2869	6.58	0.06	.	3	2
2873	5.77	-0.19	.	3	2
2874	4.84	0.24	0.19	4	1
2875	5.43	-0.16	.	3	2
2876	6.24	1.18	1.06	6	2
2878	3.25	1.52	1.77	6	2
2880	5.25	0.22	0.20	3	2
2881	4.65	0.93	0.64	6	2
2882	6.65	0.63	.	3	2
2883	5.90	0.54	-0.08	3	2
2885	6.68	-0.12	.	6	2
2887	5.59	0.31	0.10	3	2
2888	6.39	1.56	1.84	3	2
2890	1.58	0.04	0.02	9	1
2900	5.85	0.17	.	3	2
2901	5.81	-0.02	-0.09	3	2
2902	(4.98)	1.40	.	1	2
2904	6.56	0.22	0.15	3	2
2905	4.06	1.54	1.94	3	1
2906	4.45	0.51	0.06	7	1
2907	6.26	-0.12	-0.48	3	2
2909	5.09	0.43	0.03	2	1
2911	5.56	-0.06	.	3	2
2912	6.65	0.00	.	3	2
2913	6.11	0.29	.	3	2
2916	5.77	1.06	.	3	2
2918	5.91	0.60	0.10	3	2
2919	5.53	1.28	1.42	3	2
2920	6.27	1.54	1.88	3	2
2921	5.70	-0.12	-0.71	8	1
2922	4.61	-0.12	-0.43	3	1
2927	5.12	0.44	0.12	4	1
2930	4.91	0.40	0.11	7	1
2932	6.53	-0.02	-0.30	3	2
2933	6.37	0.54	.	3	2
2934	4.94	1.40	1.63	6	2
2937	4.53	-0.09	-0.31	6	2
2940	5.72	-0.06	.	3	2
2941	6.39	1.18	.	3	2
2942	6.60	1.14	.	3	2
2943	0.37	0.42	0.03	5	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2944	4.70	-0.11	-0.35	3	1
2946	4.99	0.08	0.08	3	1
2948	3.80	-0.19	-0.56	3	1
2950	6.02	-0.04	-0.18	3	2
2952	6.59	-0.05	-0.17	3	2
2954	5.80	-0.16	.	3	2
2955	6.21	1.02	.	3	2
2958	6.01	0.15	0.11	6	2
2961	4.85	-0.19	-0.65	6	2
2964	5.76	-0.07	.	3	2
2966	5.95	-0.04	-0.09	3	2
2967	5.56	1.64	1.91	3	1
2968	6.00	-0.04	-0.46	3	2
2970	3.93	1.02	0.88	4	1
2971	6.06	-0.11	-0.41	3	2
2973	4.29	1.12	0.97	4	1
2974	6.56	1.18	0.84	3	1
2979	6.34	-0.02	-0.24	3	2
2981	5.43	-0.15	.	3	2
2982	6.19	1.02	0.74	3	2
2985	3.57	0.92	0.69	9	1
2989	6.47	0.20	0.14	3	2
2990	1.14	1.00	0.86	9	1
2993	4.59	1.63	1.98	3	1
2994	5.60	-0.13	.	3	2
2996	3.95	0.18	-0.05	3	1
2998	5.06	0.78	.	3	2
3000	6.18	1.73	2.03	3	2
3002	5.17	1.10	.	3	2
3003	4.87	1.46	1.76	6	1
3004	5.62	-0.19	.	3	2
3007	5.81	0.31	.	3	2
3011	5.89	-0.11	.	3	2
3014	5.48	1.38	1.67	2	1
3015	5.04	0.33	0.09	4	1
3016	6.55	-0.10	.	3	2
3017	3.61	1.73	1.71	3	2
3018	5.37	0.58	.	3	2
3019	6.39	-0.02	-0.08	3	2
3020	6.03	-0.07	.	6	2
3022	5.89	-0.11	.	3	2
3023	5.90	-0.19	.	3	2
3024	3.95	1.04	0.83	3	2
3026	6.35	1.78	1.93	3	2
3031	6.12	0.39	.	3	2
3032	6.32	-0.16	.	3	2
3033	6.53	0.78	0.38	3	2
3034	4.52	-0.05	-1.02	3	1
3035	5.09	-0.10	.	3	2
3036	6.38	0.95	0.65	3	2
3038	6.18	-0.06	-0.09	3	2
3043	5.33	0.76	.	3	2
3045	3.35	1.25	1.18	3	1
3046	4.71	1.06	0.92	6	2
3047	5.61	1.44	1.56	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3048	6.56	0.58	.	3	2
3050	6.18	1.12	1.01	3	2
3055	4.11	-0.18	-1.01	6	2
3058	5.85	-0.14	.	3	2
3059	5.14	-0.11	-0.49	3	2
3060	6.45	-0.01	.	3	2
3061	6.31	1.59	1.61	3	2
3064	5.16	0.60	0.06	3	1
3067	4.98	0.09	0.11	5	1
3068	5.62	0.95	.	3	2
3070	5.78	0.42	.	3	2
3072	5.76	0.41	0.00	6	2
3074	6.32	-0.17	-0.76	3	2
3076	6.72	1.24	.	3	2
3078	6.05	-0.18	.	3	2
3079	5.01	0.44	-0.06	3	1
3080	3.73	1.05	0.75	3	1
3081	5.79	-0.04	-0.16	3	2
3084	4.49	-0.19	-0.69	6	2
3085	5.43	1.16	.	3	2
3087	5.86	0.35	0.02	3	2
3088	5.70	-0.15	.	6	2
3089	4.63	-0.23	-0.93	6	2
3090	4.24	-0.14	-0.99	6	2
3091	5.50	-0.19	.	3	2
3093	6.17	0.98	0.73	3	2
3097	6.05	1.00	0.86	3	2
3098	6.35	0.50	0.00	3	2
3100	6.38	-0.01	.	3	2
3101	6.03	-0.11	.	3	2
3102	4.20	0.72	0.44	9	1
3103	6.41	-0.04	-0.07	3	2
3105	5.63	1.30	.	3	2
3107	6.79	-0.18	.	3	2
3110	5.28	0.91	0.72	2	1
3113	4.79	0.15	0.16	6	2
3116	5.09	-0.17	.	3	2
3117	3.47	-0.18	-0.65	6	2
3118	6.22	-0.10	.	3	2
3120	5.74	1.55	.	3	2
3121	5.17	1.27	.	3	2
3122	4.93	1.21	1.21	6	2
3123	5.11	1.12	.	3	2
3129	(4.30)	-0.17	-0.95	1	2
3131	4.61	0.08	0.08	7	1
3135	6.49	-0.06	-0.80	3	2
3136	5.65	0.00	0.01	3	2
3137	5.99	-0.14	.	3	2
3138	5.60	0.57	.	6	2
3139	6.14	-0.10	.	3	2
3140	5.24	0.39	.	3	2
3141	4.67	1.49	1.77	4	1
3144	6.22	0.57	0.13	3	2
3145	4.38	1.25	1.28	6	1
3147	5.81	-0.10	.	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3148	6.03	0.04	.	3	2
3150	6.33	0.62	0.13	6	2
3152	6.33	-0.06	.	3	2
3153	5.17	1.72	.	3	2
3154	5.96	0.14	.	3	2
3159	4.82	-0.17	-0.62	6	2
3165	2.25	-0.27	-1.09	8	1
3168	6.13	-0.16	.	3	2
3171	6.34	0.14	0.13	3	2
3172	6.41	1.05	1.01	3	2
3173	4.84	0.05	0.00	3	1
3174	6.01	-0.04	-0.13	3	2
3176	5.30	0.63	0.21	1	1
3179	6.19	-0.15	.	6	2
3180	5.53	1.34	.	3	2
3183	5.38	0.10	.	3	2
3185	2.81	0.43	0.19	5	1
3186	6.30	-0.10	.	3	2
3188	4.32	0.97	0.71	4	1
3189	6.32	0.00	.	3	2
3190	6.36	0.16	.	3	2
3192	4.40	-0.15	-0.60	4	1
3194	5.68	-0.17	.	3	2
3195	6.41	-0.05	.	3	2
3196	6.65	1.40	.	6	2
3202	5.54	0.49	.	3	2
3204	5.21	-0.19	.	3	2
3206	4.27	-0.24	.	5	2
3207	1.83	-0.25	-0.94	3	2
3210	4.67	0.53	.	9	1
3211	4.72	0.96	0.78	3	1
3212	5.36	0.89	0.60	6	2
3217	6.28	-0.06	.	3	2
3219	6.44	-0.01	.	6	2
3220	4.76	0.43	-0.03	6	2
3223	4.35	-0.11	-0.46	3	2
3225	4.45	1.62	1.85	3	2
3226	4.75	0.18	0.08	9	2
3229	4.59	1.07	.	3	2
3230	6.52	0.06	.	3	2
3233	6.43	0.10	.	3	2
3234	6.03	-0.11	.	3	2
3237	4.77	-0.11	-0.98	6	2
3239	6.06	-0.16	.	3	2
3241	6.11	-0.18	-0.71	6	2
3242	5.78	1.02	.	3	2
3243	4.44	1.17	1.09	3	2
3244	5.13	-0.14	.	3	2
3249	3.53	1.48	1.77	9	1
3252	6.29	0.98	0.75	3	2
3255	6.60	0.02	.	3	2
3259	6.00	0.76	0.32	2	1
3260	5.16	0.08	.	3	2
3261	6.45	1.04	.	6	2
3262	5.14	0.47	-0.06	6	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3264	5.83	1.13	.	9	1
3265	6.31	0.33	0.17	6	2
3267	6.70	0.24	.	3	2
3269	6.05	0.97	0.63	3	2
3270	4.45	0.22	0.11	6	2
3271	6.18	0.60	0.15	3	2
3272	6.13	1.33	1.52	6	2
3273	6.43	-0.08	.	3	2
3274	6.42	0.39	.	3	2
3275	4.25	1.55	1.91	4	1
3276	6.13	1.04	.	3	2
3278	6.50	0.02	-0.02	3	2
3279	5.58	0.77	0.50	3	1
3280	5.07	1.15	1.19	3	2
3281	5.77	1.05	0.99	2	1
3282	4.83	1.45	1.60	6	2
3283	5.20	-0.19	.	3	2
3285	6.15	0.22	0.13	6	2
3286	6.16	0.17	.	3	2
3288	5.96	1.67	1.85	6	2
3289	3.13	1.00	.	3	2
3291	5.90	0.37	.	3	2
3294	4.82	-0.15	-0.84	6	2
3295	6.01	0.46	0.04	6	2
3296	6.32	1.63	.	3	2
3297	5.62	0.46	-0.06	3	1
3298	6.12	0.93	.	3	2
3301	5.37	-0.06	-0.31	3	2
3302	5.65	-0.10	-0.31	3	2
3305	5.73	1.53	1.86	3	2
3306	5.13	0.94	0.64	3	2
3307	1.86	1.27	0.19	6	2
3308	5.68	0.06	.	3	2
3314	3.90	-0.02	-0.02	9	1
3318	4.07	0.39	-0.02	3	2
3319	5.50	1.60	1.92	6	2
3320	5.98	0.17	.	3	2
3321	5.59	0.22	0.09	3	2
3322	5.99	-0.17	.	3	2
3323	3.36	0.85	0.52	4	1
3324	5.54	1.19	1.14	2	1
3325	6.59	0.51	0.06	3	2
3326	5.47	-0.14	.	3	2
3334	5.29	0.01	-0.01	3	2
3337	6.39	0.33	0.08	3	2
3338	6.43	1.20	1.23	3	2
3340	4.35	1.16	1.19	3	2
3342	6.00	0.42	0.20	6	2
3343	5.75	-0.15	.	6	2
3344	6.51	0.05	0.08	3	2
3345	6.67	-0.06	-0.41	3	2
3346	5.97	0.96	0.73	3	2
3347	3.77	1.13	1.13	3	2
3350	5.09	0.25	.	3	2
3358	5.33	-0.14	.	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3360	5.90	1.11	1.17	2	1
3362	5.65	1.49	.	3	2
3364	6.71	1.89	.	3	2
3367	5.42	-0.06	.	3	2
3368	6.36	0.80	.	3	2
3369	6.36	1.02	0.88	2	1
3370	5.53	-0.03	-0.04	3	2
3373	6.28	-0.14	.	6	2
3374	6.38	0.27	.	3	2
3375	6.39	-0.15	.	3	2
3378	5.87	1.07	0.87	3	2
3380	6.03	0.33	0.03	3	2
3381	6.19	0.27	.	3	2
3382	6.34	1.31	.	3	2
3383	5.81	0.00	0.00	3	2
3384	6.38	0.79	.	6	2
3386	5.69	0.58	.	3	2
3387	6.58	0.68	.	9	1
3388	6.49	-0.18	.	3	2
3389	5.96	-0.14	.	3	2
3391	5.64	0.62	0.07	3	1
3392	6.33	1.02	0.87	3	2
3393	5.69	1.02	0.74	3	2
3395	5.63	0.56	0.09	3	2
3397	6.43	0.75	.	6	2
3398	5.72	-0.03	-0.01	6	2
3402	5.96	0.37	.	3	2
3403	4.61	1.17	1.16	3	1
3404	6.47	0.58	.	3	2
3407	5.01	1.33	1.38	6	2
3410	4.17	0.00	0.02	4	1
3411	6.19	1.05	0.89	6	2
3412	6.53	-0.02	-0.04	3	2
3413	5.80	-0.13	.	3	2
3414	4.86	1.00	0.81	6	2
3415	5.26	-0.14	.	3	2
3416	6.51	0.44	0.17	3	2
3417	6.12	0.95	0.65	3	2
3418	4.43	1.20	1.28	3	1
3419	6.48	0.33	.	3	2
3420	5.27	-0.04	.	3	2
3421	6.55	0.60	.	3	2
3424	6.45	1.08	0.99	3	2
3425	6.33	1.59	.	6	2
3426	4.14	0.10	0.13	6	2
3427	6.39	0.98	0.83	8	1
3428	6.44	1.02	0.90	5	1
3429	6.30	0.17	0.16	3	1
3430	5.05	0.73	.	6	2
3431	4.98	1.42	.	6	2
3432	5.47	1.02	.	3	2
3433	4.89	0.90	.	3	2
3434	6.13	0.42	.	6	2
3437	6.63	-0.02	0.02	3	2
3438	3.98	0.93	0.65	6	2

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3439	5.20	-0.01	.	3	2
3440	5.47	-0.16	-0.54	3	2
3441	4.88	1.07	0.92	8	1
3442	5.15	-0.14	.	3	2
3443	6.36	0.00	.	3	2
3444	5.71	1.65	.	3	2
3445	3.83	0.70	0.28	3	2
3446	6.45	0.16	0.13	3	2
3447	3.60	-0.18	-0.62	6	2
3449	4.66	0.02	0.01	4	1
3452	4.77	0.12	0.12	6	2
3453	5.90	-0.21	.	6	2
3454	4.30	-0.20	-0.74	9	1
3455	6.34	0.20	0.14	3	2
3456	5.23	0.21	-0.53	6	2
3457	4.33	-0.11	-0.80	6	2
3458	6.37	-0.06	-0.13	3	2
3459	4.61	0.84	0.51	4	1
3460	5.20	0.01	-0.03	3	2
3461	3.94	1.08	0.99	3	1
3462	5.51	-0.18	-0.90	6	2
3463	6.42	0.02	.	3	2
3464	6.13	0.94	0.63	3	1
3466	5.52	-0.14	.	3	2
3467	4.85	-0.17	.	3	2
3468	3.69	-0.18	-0.87	6	2
3469	6.13	0.20	0.10	3	2
3471	6.29	1.18	.	6	2
3472	6.41	0.52	0.06	6	2
3473	6.11	0.22	.	3	2
3475	4.02	1.03	0.78	4	1
3476	5.16	-0.20	-1.02	6	2
3477	4.07	0.87	0.52	6	2
3478	5.70	1.10	1.03	3	2
3479	5.76	-0.15	.	3	2
3480	6.25	1.61	.	3	2
3482	3.38	0.68	0.37	7	1
3483	6.10	0.08	.	3	2
3484	4.32	0.90	0.64	5	1
3485	1.96	0.04	0.07	6	2
3486	5.29	0.04	0.08	3	2
3487	3.91	0.00	-0.05	6	2
3488	6.21	-0.05	.	3	2
3489	6.22	-0.10	.	3	2
3490	6.37	-0.14	-0.57	3	2
3491	6.32	1.50	1.78	3	2
3492	4.37	-0.05	-0.04	3	1
3493	6.09	1.28	1.42	3	2
3494	5.46	0.26	.	3	2
3495	6.05	0.20	0.08	3	2
3496	5.75	0.56	0.37	6	2
3497	6.37	0.58	.	3	2
3500	5.31	-0.10	-0.35	3	2
3501	6.43	-0.20	-0.77	3	2
3502	5.47	-0.10	-0.35	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3503	6.29	-0.10	.	3	2
3507	6.47	0.23	.	3	2
3510	6.38	0.64	.	9	1
3512	5.21	0.87	.	3	2
3514	5.49	0.06	.	3	2
3516	6.17	-0.08	-0.19	3	2
3517	6.39	0.23	.	3	2
3518	4.01	1.26	1.40	5	1
3523	5.54	0.15	0.14	3	2
3524	6.05	0.23	0.08	3	2
3526	6.33	0.12	0.14	3	2
3527	5.10	-0.21	-0.98	6	2
3530	6.55	0.04	.	3	2
3533	6.50	1.46	.	3	2
3534	6.42	0.56	.	3	2
3536	5.60	-0.11	.	3	2
3537	5.35	0.42	0.07	3	2
3538	6.00	0.67	0.22	6	2
3539	5.91	-0.15	.	3	2
3541	6.64	3.36	.	3	2
3542	6.39	0.00	.	3	2
3543	5.79	1.60	1.96	3	2
3544	6.11	0.20	0.17	3	2
3545	5.74	1.09	1.06	2	1
3547	3.10	1.00	0.81	3	1
3548	6.47	0.96	.	3	2
3549	6.03	-0.02	.	3	2
3551	5.33	0.26	.	3	2
3552	6.08	0.22	0.13	6	2
3554	5.75	1.32	.	3	2
3556	4.89	0.10	0.13	3	1
3557	6.14	1.00	0.75	3	2
3558	6.17	1.00	.	9	1
3559	6.39	0.16	0.12	3	2
3560	5.78	-0.08	.	3	2
3562	6.26	-0.16	-0.63	9	2
3564	5.96	1.54	.	3	2
3567	6.19	0.98	0.76	3	2
3568	6.38	-0.11	.	6	2
3569	3.14	0.19	0.08	9	1
3570	5.71	0.48	0.00	3	2
3571	3.84	-0.10	-0.45	6	2
3572	4.26	0.13	0.15	3	1
3573	6.59	0.06	0.09	3	2
3574	4.69	-0.12	-0.47	6	2
3576	4.76	1.53	1.88	5	1
3577	6.38	1.55	1.69	2	1
3578	5.86	0.53	0.08	2	1
3579	3.97	0.43	0.06	5	1
3585	6.25	1.00	.	3	2
3588	5.18	0.25	.	3	2
3590	6.07	1.12	1.02	3	2
3591	4.45	0.65	0.38	6	2
3593	6.09	-0.17	.	3	2
3594	3.60	0.00	0.01	5	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3595	5.46	-0.03	-0.10	3	1
3596	5.68	1.14	1.04	2	1
3598	5.16	0.42	.	3	2
3599	5.85	1.11	0.98	3	2
3600	5.55	-0.14	.	3	2
3602	6.27	1.00	.	6	2
3604	5.79	1.21	.	6	2
3605	5.23	-0.12	.	3	2
3607	6.74	-0.03	.	3	2
3610	5.88	1.63	1.96	3	2
3611	6.41	-0.10	.	3	2
3612	4.56	1.04	0.82	5	1
3613	4.97	1.22	1.21	3	2
3614	3.75	1.20	1.22	6	2
3615	4.01	0.14	0.13	3	2
3616	4.81	0.49	0.02	4	1
3618	6.17	1.65	1.95	3	2
3619	4.48	0.27	0.12	7	1
3622	6.44	0.25	0.19	3	2
3624	4.67	0.35	0.15	7	1
3628	4.56	1.61	1.87	3	1
3629	6.11	-0.15	.	9	2
3630	5.60	-0.06	-0.19	6	2
3631	6.73	1.62	.	3	2
3632	6.37	1.35	1.58	3	2
3634	2.21	1.65	1.80	3	2
3637	6.15	0.17	.	3	2
3638	5.73	0.00	0.01	3	2
3641	5.46	1.01	0.78	6	2
3642	4.71	-0.15	-0.80	3	2
3643	4.48	0.61	0.22	3	2
3644	5.59	0.19	.	3	2
3646	6.53	0.00	.	3	2
3647	6.48	0.17	.	3	2
3649	6.35	0.32	0.01	3	2
3650	6.51	0.73	.	9	1
3651	6.14	-0.01	0.01	3	2
3653	5.73	0.98	.	3	2
3654	5.00	0.22	-0.58	3	2
3655	6.11	0.22	0.12	3	2
3656	6.00	-0.11	.	3	2
3658	5.79	-0.21	-0.83	3	2
3659	3.44	-0.19	-0.69	6	2
3661	5.57	-0.11	-0.46	3	2
3662	4.84	0.18	0.08	7	1
3663	3.97	-0.18	-0.66	6	2
3664	5.97	0.86	0.37	2	1
3665	3.88	-0.07	-0.12	9	1
3667	6.31	0.00	0.01	3	2
3668	6.29	1.25	.	6	2
3670	5.92	-0.05	-0.10	3	2
3672	5.85	-0.13	-0.48	3	2
3673	5.54	0.85	.	6	2
3674	5.25	-0.14	-0.56	3	2
3675	6.35	0.02	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3677	5.86	0.83	.	6	2
3678	5.42	0.31	0.07	6	2
3679	5.27	0.99	.	6	2
3680	6.25	-0.08	-0.27	3	2
3681	5.24	1.17	1.22	9	2
3682	4.94	1.11	1.06	6	2
3683	5.47	-0.09	-0.30	6	2
3684	4.62	0.45	0.10	6	2
3685	1.68	0.00	0.03	3	2
3687	5.85	1.06	.	3	2
3688	6.04	0.28	-0.16	3	2
3690	3.82	0.06	0.06	3	1
3691	6.02	-0.10	.	3	2
3692	5.12	1.66	1.96	3	2
3693	6.32	1.04	.	6	2
3694	5.33	1.17	.	6	2
3695	6.14	1.09	0.99	3	2
3696	4.34	1.63	1.98	6	2
3699	2.25	0.18	0.16	6	2
3700	6.33	1.41	.	9	2
3702	6.62	0.08	.	6	2
3703	5.26	-0.08	.	3	2
3704	5.78	1.29	.	3	2
3705	3.13	1.55	1.95	4	1
3706	4.81	0.93	0.62	3	1
3708	5.87	0.54	-0.39	6	2
3709	4.79	0.94	0.67	4	1
3710	6.39	-0.10	.	3	2
3712	5.39	0.42	-0.03	3	2
3713	6.11	1.26	1.10	3	2
3714	6.33	0.46	0.02	3	2
3715	6.82	0.00	.	3	2
3716	6.05	1.39	.	3	2
3717	6.28	-0.10	.	6	2
3718	4.72	1.61	2.03	4	1
3720	5.29	0.02	0.04	3	2
3721	5.87	-0.02	-0.04	3	2
3724	6.53	0.22	0.11	3	2
3726	5.58	1.63	.	3	2
3728	4.81	0.94	0.62	6	2
3729	6.54	1.13	.	6	2
3730	5.74	0.91	0.65	3	2
3731	4.46	1.23	1.31	3	1
3732	5.64	0.19	.	3	2
3733	4.68	0.91	0.63	4	1
3734	2.50	-0.18	-0.75	6	2
3735	6.48	0.18	.	3	2
3736	6.29	0.97	.	9	1
3737	6.06	0.20	.	3	2
3738	5.59	1.52	1.82	6	2
3739	6.07	0.57	.	3	2
3740	6.30	1.48	.	3	2
3741	6.01	1.32	1.44	3	2
3742	5.99	1.06	.	3	2
3744	6.54	0.05	0.02	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3745	6.10	-0.10	-0.55	3	2
3746	6.20	0.25	.	3	2
3748	1.97	1.45	1.72	6	1
3749	4.68	1.13	1.17	3	1
3750	5.38	0.64	0.13	6	2
3751	4.30	1.48	1.72	3	1
3752	5.76	0.16	.	3	2
3753	5.11	-0.11	.	3	2
3754	5.41	0.60	0.14	3	2
3755	5.71	1.04	0.90	3	2
3756	6.65	0.20	.	3	2
3757	3.67	0.33	0.10	5	1
3758	6.27	0.27	0.11	3	2
3759	4.61	0.45	0.00	9	1
3760	6.14	0.22	0.16	3	2
3761	6.05	0.15	0.10	3	2
3762	6.26	0.84	0.40	3	2
3765	4.51	1.44	1.68	6	2
3766	6.19	0.22	.	3	2
3767	6.24	1.57	.	3	2
3770	5.48	1.36	.	6	2
3771	4.57	0.77	0.34	4	1
3772	5.85	1.20	.	3	2
3773	4.31	1.54	1.89	4	1
3775	3.18	0.46	0.03	8	1
3776	5.92	1.10	.	6	2
3777	5.47	1.08	0.98	3	2
3783	5.91	0.01	-0.02	3	2
3784	5.45	-0.10	.	3	2
3785	6.14	0.24	0.10	3	2
3786	3.60	0.36	-0.07	3	1
3787	4.57	0.10	0.10	4	1
3788	6.13	1.19	1.17	9	2
3789	5.93	0.26	.	3	2
3790	5.87	1.29	.	6	2
3793	5.89	1.70	.	6	2
3794	6.11	0.62	0.26	3	2
3795	5.37	0.44	0.04	3	2
3799	4.51	0.00	0.04	3	1
3800	4.55	0.92	0.63	3	1
3801	6.12	0.98	0.71	6	2
3802	5.94	1.50	.	3	2
3803	3.13	1.55	1.88	3	2
3805	6.25	1.17	1.25	6	2
3807	5.35	0.90	.	6	2
3808	5.01	1.02	.	6	2
3809	4.81	0.99	0.76	4	1
3810	5.91	0.02	.	3	2
3812	6.43	0.33	.	3	2
3813	6.27	1.35	1.38	3	2
3814	5.56	1.16	1.13	3	2
3815	5.41	0.77	0.44	9	1
3817	5.11	-0.12	.	3	2
3819	5.01	-0.19	.	3	2
3821	5.47	1.56	1.74	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3822	6.31	0.06	.	3	2
3823	6.49	0.42	.	3	2
3825	4.08	0.01	-0.56	6	2
3827	5.00	1.05	0.87	3	2
3828	6.53	0.38	.	3	2
3830	5.70	1.12	.	6	2
3831	6.17	0.27	.	3	2
3832	6.40	-0.04	-0.09	6	2
3833	5.63	1.02	.	3	2
3834	4.68	1.32	1.45	7	1
3835	5.98	1.12	.	3	2
3836	4.35	0.17	0.13	6	2
3837	6.19	1.05	.	6	2
3840	5.45	0.15	.	3	2
3841	6.56	0.10	0.11	3	2
3842	5.50	1.00	0.67	3	2
3844	6.70	0.49	.	3	2
3845	3.91	1.32	1.45	5	1
3846	6.31	-0.03	-0.14	6	2
3848	6.37	0.08	.	3	2
3849	5.05	-0.15	-0.58	4	1
3852	3.52	0.49	0.21	5	1
3856	4.52	-0.07	-0.20	6	2
3858	4.78	-0.12	-0.58	4	1
3860	5.11	-0.14	-0.57	3	2
3862	4.94	0.53	.	3	2
3863	5.32	0.20	.	3	2
3864	5.80	1.09	.	6	2
3867	6.41	-0.06	-0.37	3	2
3868	6.00	-0.13	.	3	2
3871	4.79	0.50	0.35	5	1
3872	6.15	-0.10	.	3	2
3873	2.98	0.81	0.47	8	1
3874	6.82	0.30	.	3	2
3875	5.56	-0.04	.	3	2
3876	5.79	1.64	1.95	3	2
3878	6.45	-0.13	-0.94	6	2
3879	5.65	0.34	0.12	3	2
3880	6.45	0.43	.	9	1
3881	5.10	0.62	0.08	2	1
3883	6.47	-0.11	.	3	2
3886	5.55	-0.18	.	3	2
3887	6.22	0.46	.	3	2
3888	3.81	0.29	0.10	8	1
3890	2.97	0.27	0.13	3	2
3892	5.97	1.24	.	3	2
3893	6.24	0.48	-0.02	3	2
3894	4.60	0.03	0.08	3	1
3895	6.06	0.94	.	6	2
3897	6.37	1.01	.	6	2
3898	5.08	-0.10	.	3	2
3899	6.01	0.17	0.11	3	2
3901	6.42	0.58	0.11	6	2
3902	5.45	0.89	0.57	3	2
3903	4.11	0.92	0.65	5	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3904	5.73	1.08	.	3	2
3905	3.88	1.22	1.39	4	1
3906	6.02	-0.04	-0.09	2	1
3907	6.35	0.94	0.68	3	2
3909	5.05	0.04	0.06	6	2
3910	5.62	1.17	.	6	2
3912	4.58	1.20	0.99	6	2
3913	5.79	1.36	.	6	2
3914	5.56	1.32	.	3	2
3915	5.95	1.66	1.93	3	2
3916	6.30	0.62	.	3	2
3919	4.88	1.23	1.30	6	2
3920	6.48	-0.14	.	6	2
3921	6.24	0.04	.	3	2
3924	5.93	-0.15	.	3	2
3925	5.71	-0.11	.	3	2
3926	5.85	1.13	1.00	3	2
3927	5.72	-0.01	-0.01	6	2
3928	5.14	0.46	0.00	4	1
3930	6.41	1.61	.	3	2
3931	6.28	0.22	0.11	3	2
3932	5.84	1.20	.	3	2
3933	6.32	0.17	.	3	2
3935	6.37	-0.17	.	3	2
3938	6.04	1.36	1.55	3	2
3940	3.54	-0.08	-0.63	6	2
3941	6.12	-0.13	.	3	2
3943	6.05	-0.14	.	6	2
3944	6.35	-0.08	-0.92	3	2
3945	6.70	0.27	0.09	3	2
3946	6.21	-0.10	-0.68	3	2
3947	5.23	0.30	.	3	2
3948	6.58	1.13	1.07	3	2
3949	6.20	-0.10	-0.60	3	2
3950	4.70	1.60	1.92	4	1
3951	5.35	0.66	0.28	2	1
3953	6.52	0.98	.	6	2
3955	6.20	-0.13	-0.66	6	2
3957	6.20	1.12	.	3	2
3959	6.12	1.66	2.01	6	2
3960	5.94	0.26	.	3	2
3961	6.45	0.40	-0.02	3	2
3963	5.86	-0.06	.	3	2
3964	6.12	0.02	.	3	2
3966	6.19	0.17	.	3	2
3968	6.43	1.30	.	3	2
3970	4.59	-0.10	-0.27	4	1
3973	6.21	0.94	0.72	3	2
3974	4.49	0.18	0.08	9	1
3975	3.53	-0.04	-0.21	4	1
3976	5.08	0.88	.	3	2
3977	5.60	1.50	.	3	2
3980	4.37	1.45	1.75	3	1
3981	4.50	-0.04	-0.06	3	1
3982	1.35	-0.11	-0.36	9	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3983	5.53	0.03	0.05	3	2
3984	6.36	0.98	.	3	2
3985	6.53	0.02	.	3	2
3986	6.27	-0.02	-0.05	3	2
3988	6.24	0.18	0.15	6	2
3989	5.91	0.02	-0.05	6	2
3990	4.86	-0.12	.	3	2
3991	5.31	0.36	0.00	3	1
3992	6.13	0.60	0.16	2	2
3994	3.61	1.00	0.92	5	1
3995	5.28	0.98	0.75	3	2
3996	5.65	1.30	1.42	6	2
3997	6.60	0.92	0.53	3	2
3998	6.44	0.46	0.02	3	1
4000	6.25	0.01	0.01	3	2
4001	5.98	1.24	.	3	2
4002	5.81	0.02	-0.02	3	2
4003	6.28	0.01	.	3	2
4004	5.77	1.18	1.11	3	2
4007	6.40	1.66	.	3	2
4009	5.70	-0.08	.	3	2
4010	6.16	1.17	.	6	2
4011	6.25	0.31	.	3	2
4013	6.38	0.60	.	3	2
4015	5.91	1.21	.	6	2
4017	5.28	0.25	.	3	2
4018	6.10	-0.08	.	6	2
4019	6.35	0.94	.	3	2
4020	5.78	0.14	.	3	2
4022	6.39	-0.10	.	3	2
4023	3.85	0.05	0.07	6	2
4025	5.16	0.22	0.18	3	2
4029	6.19	1.06	.	6	2
4031	3.44	0.31	0.20	9	1
4033	3.45	0.03	0.06	9	1
4036	5.60	1.52	.	3	2
4037	3.32	-0.08	-0.33	3	2
4038	6.17	-0.17	.	3	2
4039	5.82	0.50	-0.05	6	1
4040	6.57	0.48	.	3	2
4042	5.24	0.31	0.14	2	2
4043	6.22	0.20	.	3	2
4045	6.30	1.54	.	3	2
4054	4.80	0.45	0.01	7	1
4056	5.96	-0.06	.	3	2
4057	1.98	1.15	1.00	6	1
4059	6.37	0.90	0.60	6	2
4060	6.32	0.33	0.03	3	2
4061	5.81	0.48	.	3	2
4063	4.57	1.62	1.81	3	2
4064	6.65	-0.08	-0.67	3	2
4065	5.67	0.05	0.05	3	2
4066	5.65	1.67	.	6	2
4068	6.51	0.40	.	3	2
4069	3.05	1.59	1.90	6	1

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4071	6.50	0.20	.	3	2
4072	4.99	-0.07	-0.15	3	1
4074	4.50	-0.12	-0.58	6	2
4076	6.13	0.03	.	3	2
4077	6.07	1.12	1.13	3	2
4079	6.54	0.46	-0.04	3	2
4080	4.83	1.12	1.08	6	2
4082	5.97	-0.10	-0.17	3	2
4083	6.27	0.31	0.05	3	2
4084	5.26	0.37	-0.05	3	1
4085	6.32	1.00	0.74	3	2
4086	5.33	0.25	.	3	2
4087	6.27	0.88	.	3	2
4088	5.61	1.62	1.96	3	2
4089	4.99	-0.13	-0.51	3	2
4090	4.74	0.25	0.17	7	1
4091	6.35	1.52	.	6	2
4092	5.56	1.52	1.86	5	1
4094	3.79	1.48	1.81	3	1
4095	5.95	0.32	.	3	2
4098	6.45	0.60	0.05	4	1
4099	6.13	1.13	.	3	2
4100	4.21	0.90	0.65	2	1
4102	4.00	0.35	-0.01	3	2
4104	4.25	1.45	1.63	6	2
4105	6.19	0.07	0.11	3	2
4107	5.58	1.56	.	6	2
4109	6.05	0.05	0.04	3	2
4110	4.65	0.51	0.01	3	2
4111	6.11	1.51	.	6	2
4112	4.84	0.52	-0.01	5	1
4114	3.82	0.31	0.24	6	2
4115	6.01	0.09	0.11	3	2
4116	5.21	-0.06	-0.12	3	2
4118	5.56	-0.04	.	3	2
4119	5.10	-0.14	-0.53	6	1
4120	5.29	1.86	.	3	2
4122	6.20	1.38	1.18	3	2
4125	6.51	0.54	.	3	2
4129	6.19	0.01	-0.53	3	2
4130	6.05	0.51	.	3	2
4132	4.75	0.23	0.08	3	1
4133	3.85	-0.14	-0.95	9	1
4134	4.89	0.50	.	6	2
4135	5.16	-0.15	.	3	2
4138	4.74	0.04	0.07	3	2
4139	5.91	0.92	.	6	2
4141	5.16	0.34	-0.02	6	1
4142	4.93	1.68	1.82	3	2
4143	5.02	1.04	.	6	2
4144	6.00	0.31	.	3	2
4145	5.08	1.60	.	6	2
4146	5.08	0.93	0.64	2	1
4147	6.13	0.36	.	3	2
4148	5.67	0.05	0.05	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4149	6.10	0.50	.	6	2
4151	6.23	1.40	.	6	2
4152	6.49	0.20	.	3	2
4153	5.38	2.88	.	4	2
4154	6.08	0.94	.	3	2
4155	6.57	0.29	.	3	2
4156	6.04	1.64	.	3	2
4157	6.29	0.48	.	6	2
4158	5.72	0.52	0.00	2	1
4159	4.45	1.62	1.79	6	2
4160	6.52	0.29	.	3	2
4161	7.07	-0.08	-0.51	3	2
4162	4.89	1.62	.	6	2
4163	4.82	2.68	5.78	2	1
4164	5.08	1.18	.	6	2
4165	5.52	1.27	1.34	2	1
4166	4.72	0.81	0.55	5	1
4167	3.84	0.30	0.07	6	2
4169	5.45	0.50	.	6	2
4170	6.30	1.20	1.27	3	2
4171	4.91	0.92	.	3	2
4172	6.04	0.00	.	3	2
4173	5.91	-0.14	.	3	2
4174	4.11	1.58	1.94	3	2
4175	6.12	0.66	.	6	2
4177	4.66	1.48	0.97	6	2
4179	5.87	1.44	.	9	2
4180	4.28	1.04	0.75	3	2
4182	6.26	0.88	0.59	3	2
4183	6.37	0.92	.	6	2
4185	5.52	-0.16	-0.57	6	2
4186	6.07	1.71	1.91	3	2
4188	6.42	0.08	.	3	2
4191	5.18	0.33	0.01	1	1
4193	5.79	1.17	1.09	3	2
4194	5.64	0.00	.	3	2
4195	6.00	2.41	4.77	3	1
4196	4.81	-0.13	-0.58	6	2
4198	5.37	0.26	.	3	2
4199	2.76	-0.22	-1.00	3	2
4200	4.57	1.71	1.87	3	2
4201	6.28	1.21	1.28	3	2
4202	6.34	1.56	1.90	2	1
4204	5.77	0.01	.	3	2
4205	4.82	-0.13	.	3	2
4206	5.97	-0.07	-0.51	3	2
4207	6.37	1.12	1.11	3	2
4211	6.26	0.20	0.17	3	2
4212	6.46	0.23	0.14	3	2
4213	6.27	0.49	0.01	3	2
4216	2.69	0.90	0.57	6	2
4217	6.25	0.04	.	6	2
4218	6.67	-0.01	.	3	2
4219	5.34	-0.10	-0.45	6	2
4220	5.23	-0.07	-0.47	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4221	5.26	-0.08	.	3	2
4222	4.85	-0.15	-0.64	9	2
4224	5.93	1.60	1.93	3	2
4225	5.88	0.03	0.04	3	2
4226	6.35	1.63	.	6	2
4228	6.01	0.27	.	6	2
4229	6.61	0.22	0.08	3	2
4231	5.47	0.95	0.74	3	2
4232	3.11	1.24	1.27	3	1
4233	5.86	1.07	0.91	6	2
4234	4.45	-0.19	-0.70	3	2
4237	5.79	0.16	0.13	6	2
4238	5.61	0.04	0.05	3	2
4239	5.85	0.01	.	6	2
4240	5.95	1.48	1.83	3	2
4242	6.44	1.11	1.01	2	1
4244	6.38	0.08	0.13	3	2
4245	6.31	1.50	1.82	3	2
4247	3.83	1.04	0.92	5	1
4248	4.71	-0.05	-0.05	3	1
4249	6.13	0.91	0.61	3	2
4250	5.25	0.16	.	3	2
4251	5.24	0.46	0.06	2	1
4252	6.38	1.16	.	3	2
4253	5.45	0.96	0.77	3	2
4255	5.66	0.83	.	3	2
4257	3.78	0.95	0.65	6	2
4259	4.32	0.02	0.01	4	1
4262	5.99	-0.02	-0.46	3	2
4263	6.11	-0.08	.	3	2
4264	6.03	1.13	1.08	2	1
4265	5.91	0.42	-0.02	3	2
4266	5.93	1.75	.	9	2
4267	5.81	1.45	1.00	3	2
4268	6.33	1.46	1.57	3	2
4271	5.92	1.08	.	3	2
4273	4.60	1.03	0.84	6	2
4274	5.91	0.18	.	3	2
4277	5.05	0.61	0.13	5	1
4278	6.00	1.59	1.92	2	1
4279	6.13	1.53	1.63	3	2
4282	5.71	0.37	.	3	2
4284	5.89	1.63	.	3	2
4287	4.07	1.09	0.98	5	1
4288	5.08	0.24	0.17	3	1
4289	5.88	1.50	.	3	2
4290	6.15	-0.06	.	6	2
4291	4.84	1.16	1.12	3	2
4292	5.81	-0.08	.	3	2
4293	4.39	0.11	0.12	6	2
4294	4.99	0.16	0.11	3	2
4295	2.37	-0.02	0.00	7	1
4296	6.15	0.18	.	3	2
4298	6.07	0.52	.	3	2
4299	4.75	1.62	1.92	5	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4300	4.42	0.05	0.05	3	1
4301	1.79	1.07	0.93	8	1
4302	6.23	0.31	.	3	2
4303	6.14	0.26	0.06	3	2
4304	6.71	0.55	0.04	3	2
4306	5.95	1.22	1.32	3	2
4308	6.35	0.88	.	3	2
4310	4.63	0.33	0.08	8	1
4311	5.67	0.24	.	3	2
4312	6.19	0.11	0.12	3	2
4313	5.43	0.03	.	3	2
4314	4.94	0.36	0.04	2	2
4315	6.09	0.30	.	3	2
4316	6.13	-0.02	.	3	2
4317	5.71	-0.06	-0.26	3	2
4318	6.30	0.95	.	6	2
4319	5.52	0.96	0.66	3	2
4320	6.77	0.04	.	3	2
4321	6.32	1.16	.	3	2
4323	6.01	1.20	.	3	2
4324	6.59	0.34	.	3	2
4325	4.61	1.03	0.81	6	2
4326	6.41	0.12	0.13	3	2
4327	5.15	0.03	.	3	2
4328	6.54	0.60	.	3	2
4329	5.57	-0.05	-0.63	6	2
4331	6.49	0.03	0.05	3	2
4334	5.44	0.07	0.06	3	2
4335	3.01	1.14	1.12	5	1
4336	5.89	1.57	1.90	2	1
4337	3.91	1.24	0.94	6	2
4338	5.13	0.23	.	3	2
4339	5.81	0.04	.	3	2
4342	6.88	-0.08	.	3	2
4343	4.48	0.03	0.06	4	1
4347	6.13	-0.01	.	3	2
4349	6.35	1.37	1.54	3	2
4350	5.36	0.18	.	3	2
4351	6.33	1.15	1.12	1	1
4352	4.60	0.55	0.05	6	2
4353	6.11	1.06	.	3	2
4354	5.80	1.66	.	6	2
4356	5.42	-0.03	-0.05	3	2
4357	2.56	0.12	0.12	6	1
4358	5.79	1.12	1.13	3	2
4359	3.35	-0.02	0.07	3	1
4360	5.76	1.32	.	3	2
4361	5.74	-0.10	.	3	2
4362	4.63	1.66	1.85	3	1
4368	4.47	0.21	0.15	5	1
4369	6.13	0.20	0.16	3	2
4370	6.31	0.40	.	3	2
4371	5.18	1.52	1.84	4	1
4372	6.27	0.10	.	3	2
4373	6.45	0.40	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4374	3.79	0.59	0.04	9	1
4377	3.49	1.40	1.55	7	1
4379	6.06	1.76	1.93	3	2
4380	4.79	0.12	0.03	3	1
4381	5.91	1.04	0.87	3	2
4382	3.56	1.11	0.98	4	1
4384	5.99	0.46	0.00	3	2
4385	6.35	0.26	0.08	3	2
4386	4.05	-0.06	-0.12	5	1
4387	6.27	-0.03	-0.12	3	2
4389	6.41	0.05	-0.48	3	2
4390	3.89	-0.15	-0.59	6	2
4392	5.00	0.98	0.80	2	1
4394	6.05	1.46	1.78	3	2
4395	5.09	0.42	-0.06	2	1
4397	6.43	0.20	0.11	3	2
4398	5.79	0.01	.	3	2
4399	3.94	0.41	0.07	9	1
4400	5.39	0.94	0.66	3	2
4401	5.11	-0.08	-0.42	3	2
4402	4.83	1.56	.	3	2
4403	6.12	-0.18	-0.81	3	2
4404	5.79	1.38	1.57	2	1
4405	4.08	0.21	0.10	4	1
4406	5.59	0.06	-0.57	3	2
4410	6.27	0.33	0.05	3	2
4413	5.17	0.50	.	3	2
4414	6.16	0.85	0.62	3	2
4416	5.94	0.49	.	3	2
4417	5.81	0.52	.	3	2
4418	4.95	1.00	0.80	3	1
4419	6.25	1.04	0.73	3	2
4423	5.38	-0.03	.	3	2
4425	6.39	0.16	-0.42	3	2
4428	5.76	0.07	.	3	2
4432	4.77	1.54	1.82	3	2
4434	3.85	1.62	1.97	3	1
4438	6.39	0.52	.	3	2
4439	5.48	0.50	-0.01	5	1
4440	6.24	0.54	.	3	2
4441	5.13	1.08	0.77	3	2
4442	5.14	0.49	-0.11	6	2
4446	5.95	1.38	1.64	6	2
4447	5.64	1.58	.	6	2
4448	5.90	1.13	1.11	3	2
4449	5.04	1.58	.	3	2
4450	3.54	0.93	0.70	3	1
4452	6.40	1.05	0.93	2	1
4453	5.39	0.12	.	3	2
4455	5.77	0.46	0.01	3	2
4456	5.95	-0.16	-0.65	9	1
4458	5.98	0.81	0.39	3	1
4460	4.62	-0.08	-0.21	6	2
4462	5.50	1.04	.	6	2
4463	5.71	1.66	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4466	5.25	0.25	0.12	3	2
4467	3.13	-0.04	-0.19	3	2
4468	4.70	-0.08	-0.16	3	1
4470	6.31	0.06	.	3	2
4471	4.30	1.01	0.74	3	1
4472	5.82	-0.08	.	3	2
4473	6.29	0.46	.	3	2
4475	5.15	1.12	.	6	2
4476	5.44	1.24	.	3	2
4478	6.17	1.08	0.95	3	2
4479	5.65	0.35	-0.01	6	2
4483	5.37	1.57	1.50	3	2
4484	6.22	1.12	1.07	3	2
4485	5.96	1.02	0.83	3	2
4487	5.15	-0.02	.	3	2
4489	6.42	0.82	.	3	2
4490	6.21	0.00	.	3	2
4492	5.17	0.80	0.36	3	2
4494	4.70	-0.07	-0.22	6	2
4496	5.34	0.74	0.23	5	1
4497	5.96	1.66	.	3	2
4498	6.44	0.66	.	3	2
4499	4.94	1.15	0.81	6	2
4503	5.22	1.48	.	6	2
4507	6.33	1.08	0.88	3	2
4508	5.98	1.46	.	3	2
4509	6.39	0.90	0.59	3	2
4510	6.07	0.96	0.71	3	2
4511	5.03	0.80	0.34	6	2
4514	4.72	0.97	0.74	7	1
4515	4.85	0.18	0.10	3	2
4516	6.26	1.17	.	6	2
4517	4.04	1.50	1.78	5	1
4518	3.72	1.18	1.17	4	1
4519	5.29	-0.12	-0.55	3	2
4520	3.64	0.16	0.15	3	2
4522	4.11	0.90	0.58	6	2
4523	4.91	0.66	.	3	2
4524	6.17	0.96	.	3	2
4525	6.48	0.68	0.24	2	1
4526	5.41	1.67	.	6	2
4527	4.53	0.55	0.28	8	1
4528	5.32	0.02	0.04	3	2
4529	6.26	0.58	0.13	6	2
4533	6.15	0.52	0.08	3	2
4534	2.14	0.08	0.07	9	1
4537	4.32	-0.15	-0.62	6	2
4538	4.97	1.40	1.22	6	2
4540	3.60	0.55	0.11	9	1
4541	5.70	0.26	.	3	2
4544	5.64	1.06	0.88	3	2
4546	4.46	1.30	1.46	3	2
4547	6.35	0.40	.	3	2
4548	5.85	0.56	.	3	2
4549	4.90	-0.11	-0.53	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4550	6.45	0.75	0.17	9	1
4551	5.57	0.07	.	3	2
4552	4.28	-0.10	-0.33	6	2
4553	6.17	0.08	.	3	2
4554	2.44	0.00	0.03	9	1
4555	6.30	0.20	0.16	3	2
4556	6.06	0.05	.	3	2
4557	6.46	0.52	.	3	2
4559	5.58	0.94	0.67	3	2
4565	5.93	1.50	.	3	2
4567	5.18	-0.03	.	3	2
4568	6.13	1.02	.	3	2
4570	6.26	0.40	0.04	3	2
4571	6.21	-0.04	.	3	2
4573	5.57	-0.15	.	3	2
4576	5.44	-0.08	.	3	2
4577	6.79	0.97	.	6	2
4578	5.61	0.19	-0.12	3	2
4579	6.43	0.03	.	3	2
4580	6.17	1.26	1.42	3	2
4582	6.05	1.28	.	6	2
4583	4.91	-0.06	-0.16	3	2
4585	5.37	0.00	0.00	3	2
4586	6.17	1.61	1.90	2	1
4587	5.54	0.76	0.43	2	1
4589	4.67	0.13	0.10	3	1
4591	6.31	1.21	1.06	3	2
4592	6.16	0.00	.	3	2
4595	6.05	1.29	1.54	3	2
4596	6.42	1.17	1.14	6	2
4597	5.89	-0.08	-0.28	6	2
4598	6.22	1.49	1.83	3	2
4599	4.33	0.27	0.04	3	2
4600	5.15	0.42	-0.04	3	2
4601	6.44	1.23	0.97	6	2
4603	4.72	-0.08	-0.61	6	2
4604	5.35	-0.01	-0.17	6	2
4605	5.04	1.49	1.78	6	2
4607	5.96	1.67	.	6	2
4608	4.12	0.99	0.64	5	1
4609	5.80	1.01	0.85	2	1
4610	6.13	0.17	1.15	2	1
4611	6.33	0.22	-0.48	3	2
4612	6.23	-0.08	.	3	2
4613	6.37	1.00	0.79	3	2
4614	6.23	1.24	1.04	6	2
4615	5.93	0.60	0.32	3	2
4616	4.15	0.34	0.03	3	2
4617	5.18	1.30	1.37	6	2
4618	4.47	-0.15	-0.67	6	2
4619	6.37	-0.05	.	3	2
4620	5.34	0.00	-0.04	3	2
4621	2.65	-0.09	.	2	2
4622	6.22	1.74	.	6	2
4623	4.02	0.32	-0.02	9	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4624	5.75	0.24	0.16	3	2
4625	5.48	-0.07	.	3	2
4626	5.95	1.12	1.13	3	2
4628	6.17	0.03	.	3	2
4629	5.73	0.35	0.17	3	2
4630	2.98	1.34	1.47	5	1
4631	6.06	0.20	.	3	2
4633	6.04	0.11	0.08	4	1
4634	6.08	0.39	.	6	2
4635	5.46	0.06	.	3	2
4636	6.62	1.08	0.77	3	2
4637	6.23	0.82	.	6	2
4638	3.96	-0.15	-0.61	6	2
4644	5.92	0.29	.	9	2
4648	5.76	-0.13	.	3	2
4649	6.35	1.24	1.41	3	2
4652	5.31	1.43	1.59	3	2
4653	6.22	0.12	-0.82	9	2
4655	5.83	1.05	.	3	2
4657	6.12	0.45	-0.14	2	1
4658	6.26	1.01	.	6	2
4660	3.31	0.08	0.07	9	1
4662	2.58	-0.11	-0.35	9	1
4664	6.22	-0.01	-0.06	6	2
4669	6.06	0.03	-0.05	3	2
4670	6.07	0.10	.	3	2
4674	4.26	-0.12	-0.51	3	2
4675	6.15	0.01	.	3	2
4677	5.99	0.35	0.03	3	2
4678	5.99	0.35	0.03	3	2
4679	4.04	-0.17	-0.68	6	2
4681	5.90	0.17	0.13	3	2
4682	5.00	1.59	1.95	6	2
4683	6.33	0.43	-0.08	5	1
4684	6.48	0.18	0.09	3	1
4685	6.27	0.17	0.15	2	1
4686	6.28	0.35	-0.01	5	1
4689	3.90	0.02	0.07	6	1
4691	5.97	0.82	.	3	2
4692	6.21	-0.04	-0.15	3	2
4694	6.15	0.30	0.08	4	2
4695	4.96	1.16	1.15	7	1
4696	5.21	-0.10	.	3	2
4697	4.74	1.01	0.79	6	1
4700	3.59	1.42	1.63	6	2
4703	5.15	0.19	0.17	3	2
4704	5.74	1.04	0.82	6	2
4705	6.20	0.00	-0.05	4	2
4706	5.39	-0.10	.	3	2
4707	4.81	0.49	0.26	9	1
4708	6.40	0.60	0.08	3	2
4709	6.33	1.08	0.89	3	2
4710	6.36	0.89	0.53	6	2
4711	5.68	1.16	.	6	2
4712	5.32	-0.08	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4713	6.40	0.29	.	3	2
4714	5.79	-0.08	.	3	2
4716	4.80	0.87	0.62	6	1
4717	5.18	0.08	0.11	3	1
4718	6.25	1.18	.	6	2
4719	6.42	0.27	0.08	3	1
4720	6.30	0.96	0.74	3	2
4721	6.11	0.65	.	6	2
4722	5.95	0.03	.	3	2
4725	6.03	1.10	1.00	3	1
4729	4.86	-0.12	-0.59	3	2
4732	4.82	-0.14	.	3	2
4733	4.95	0.27	0.18	2	1
4734	6.26	0.68	.	3	2
4736	6.00	0.07	.	6	2
4737	4.37	1.13	1.15	5	1
4738	5.00	0.08	0.13	2	1
4741	6.37	0.93	0.68	3	2
4743	3.91	-0.19	-0.77	6	2
4744	6.04	0.02	-0.03	9	2
4746	6.22	0.44	0.08	3	2
4747	6.22	1.26	.	3	2
4749	6.15	0.92	.	3	2
4750	6.54	0.18	0.11	2	1
4751	6.65	0.22	0.08	4	1
4752	5.29	-0.06	-0.11	9	1
4753	5.48	0.43	0.09	5	1
4754	5.80	1.56	.	3	2
4757	2.94	-0.05	-0.09	2	1
4763	1.63	1.59	1.77	3	2
4764	6.42	0.16	.	3	2
4766	5.46	0.05	0.10	5	1
4769	5.88	1.11	1.05	6	2
4770	6.05	1.52	1.88	3	2
4771	5.95	0.27	.	6	2
4772	6.19	1.04	0.86	3	2
4773	3.87	-0.15	-0.61	3	2
4774	6.46	0.20	.	3	2
4775	4.32	0.37	0.02	7	1
4778	6.26	0.29	.	3	2
4780	6.29	0.11	0.10	2	1
4781	5.48	-0.03	-0.10	6	2
4782	6.38	0.46	.	3	2
4785	4.27	0.59	0.05	6	1
4786	2.64	0.88	0.65	2	1
4787	3.89	-0.14	-0.57	3	1
4788	5.77	0.70	.	6	2
4789	4.81	0.00	-0.01	7	1
4790	6.22	0.73	.	9	2
4794	5.13	0.22	.	3	2
4796	5.80	0.01	.	3	2
4797	6.20	0.33	.	3	2
4802	3.86	0.05	0.03	6	2
4803	5.45	0.32	0.03	4	1
4804	6.49	0.08	-0.24	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4805	6.33	0.01	0.01	3	2
4806	6.25	0.06	-0.85	9	2
4807	5.71	1.60	1.82	3	2
4809	6.00	0.29	.	3	2
4810	5.89	1.21	.	3	2
4813	4.67	1.22	1.36	4	1
4814	6.26	-0.05	-0.20	3	2
4817	4.64	-0.08	-0.40	6	2
4818	5.84	1.52	.	3	2
4819	2.17	-0.01	-0.01	3	2
4821	5.27	0.42	0.10	1	1
4825	2.74	0.36	-0.03	9	1
4827	6.04	0.39	.	3	2
4828	4.88	0.09	0.03	4	1
4829	5.59	0.00	-0.02	3	2
4831	4.66	1.10	1.01	6	2
4834	5.99	-0.08	.	3	2
4835	6.39	1.09	.	6	2
4836	6.44	0.25	.	3	2
4837	5.93	0.86	0.47	2	1
4838	6.39	-0.06	.	3	2
4841	6.16	0.69	0.38	6	2
4842	4.69	1.05	0.93	3	2
4844	3.05	-0.18	-0.74	3	2
4845	5.95	0.55	-0.03	6	1
4846	4.87	2.54	6.62	2	1
4847	5.22	0.33	0.15	3	2
4848	4.65	-0.16	-0.63	3	2
4849	5.67	0.99	0.74	2	1
4850	5.86	1.34	.	3	2
4853	1.25	-0.23	-0.98	3	2
4854	6.32	-0.05	-0.08	3	2
4856	6.26	0.55	0.07	3	2
4857	6.44	-0.06	.	3	2
4858	6.41	1.60	1.82	3	2
4860	5.66	0.95	.	6	2
4862	5.55	1.17	0.95	3	2
4864	6.31	0.70	0.25	3	1
4865	5.70	0.02	0.07	3	1
4867	5.85	0.46	-0.04	3	1
4870	5.46	1.02	0.79	3	2
4871	6.24	0.05	.	3	2
4872	5.73	0.13	.	3	2
4874	4.91	-0.04	.	3	2
4876	5.72	0.38	.	6	2
4877	6.41	1.02	0.79	3	2
4878	6.02	1.29	1.44	3	2
4879	5.98	-0.10	.	3	2
4880	6.33	0.03	.	3	2
4881	6.15	0.23	.	3	2
4883	4.94	0.67	0.20	5	1
4885	5.93	1.31	.	6	2
4887	5.76	0.34	.	3	2
4888	4.33	1.37	1.58	6	2
4889	4.27	0.21	0.12	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4891	6.11	0.50	0.04	3	2
4897	4.62	-0.15	-0.60	6	2
4898	4.03	-0.17	-0.75	3	2
4899	5.19	-0.11	-0.50	3	2
4900	6.25	0.27	0.05	3	1
4901	6.00	0.08	.	3	2
4902	4.80	1.59	1.54	5	1
4903	5.89	0.64	.	3	2
4905	1.77	-0.02	0.02	7	1
4906	5.47	1.68	.	3	2
4907	5.93	1.13	0.89	3	2
4910	3.38	1.59	1.79	6	1
4914	5.60	0.34	-0.03	2	1
4915	2.89	-0.12	-0.32	2	1
4916	5.24	0.28	0.02	4	1
4918	6.31	1.07	.	3	2
4920	4.79	1.56	1.96	4	1
4921	5.79	0.18	0.08	3	2
4922	6.02	0.38	.	3	2
4923	3.62	1.18	1.26	3	2
4925	5.99	1.12	1.09	3	2
4928	5.32	1.29	1.29	2	1
4930	6.03	0.05	-0.86	3	2
4931	4.93	0.36	0.01	9	1
4932	2.84	0.94	0.73	5	1
4933	4.85	0.02	.	3	2
4935	5.58	0.56	.	3	2
4937	6.59	0.29	0.11	3	2
4938	6.26	1.68	.	3	2
4939	6.43	1.70	.	3	2
4940	4.71	-0.14	-0.57	6	2
4942	4.27	-0.19	-0.77	6	2
4944	5.99	0.48	.	3	2
4947	5.65	0.03	.	3	2
4949	5.60	1.59	1.63	5	2
4951	5.71	-0.07	.	3	2
4952	5.51	-0.02	-0.87	3	2
4954	4.82	1.45	1.87	4	1
4955	5.19	1.14	1.12	3	1
4957	5.55	1.18	1.18	3	2
4959	6.32	1.02	0.79	3	2
4961	5.94	1.49	1.69	3	2
4963	4.38	-0.01	0.00	5	1
4966	5.91	0.42	-0.03	3	2
4968	4.32	0.45	-0.06	2	1
4970	5.79	0.52	.	3	2
4972	6.33	0.44	.	3	2
4975	4.60	-0.08	-0.38	3	2
4976	5.85	1.07	0.72	3	2
4977	5.90	0.06	0.04	3	2
4978	6.51	0.19	.	3	2
4979	4.85	0.70	0.31	6	2
4980	6.16	0.60	.	3	2
4981	5.04	0.46	0.02	3	1
4982	6.22	1.06	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
4983	4.26	0.58	0.08	9	1
4989	4.92	0.48	.	3	2
4991	6.16	1.38	.	2	2
4993	4.80	-0.08	-0.35	3	2
4994	6.37	1.21	1.33	3	2
4996	5.89	1.06	.	3	2
4998	5.67	1.50	1.86	2	1
4999	6.19	0.97	.	6	2
5000	6.07	0.44	-0.02	3	2
5001	5.22	1.04	.	3	2
5002	4.87	1.50	1.58	3	2
5008	5.85	0.20	.	3	2
5011	5.22	0.58	0.09	2	1
5012	6.04	1.35	1.46	3	2
5014	6.37	0.26	0.04	3	2
5015	4.81	1.67	1.95	6	2
5016	6.19	0.01	.	3	2
5017	4.73	0.30	0.20	7	1
5019	4.74	0.71	0.26	9	1
5020	3.00	0.92	0.67	7	1
5021	6.62	0.06	0.03	3	2
5026	5.49	-0.13	.	3	2
5027	6.02	0.29	.	6	2
5028	2.73	0.03	0.01	3	1
5029	5.77	1.12	.	3	2
5030	6.05	0.09	-0.34	6	2
5031	6.26	0.10	0.10	3	2
5033	6.21	0.10	.	3	2
5035	4.53	-0.13	-0.59	3	2
5037	5.69	0.06	0.03	3	2
5040	5.87	0.12	0.10	3	2
5041	4.53	0.85	0.47	3	2
5042	5.05	1.11	1.01	3	2
5046	6.48	0.96	.	3	2
5047	5.89	1.43	1.66	3	2
5048	5.31	0.40	-0.01	3	2
5049	5.67	-0.03	-0.18	3	2
5051	5.63	-0.06	-0.24	3	2
5054	2.06	0.02	0.03	6	1
5056	0.97	-0.23	-0.93	9	1
5059	5.97	0.20	0.13	3	2
5062	4.02	0.16	0.08	9	1
5063	6.28	-0.12	.	6	2
5064	5.26	1.53	1.76	2	1
5066	6.20	0.02	-0.42	3	2
5068	4.75	1.10	1.06	3	1
5069	6.11	0.11	0.05	3	2
5071	5.06	0.07	.	3	2
5072	4.98	0.71	0.26	9	1
5078	6.43	1.11	1.11	3	2
5080	4.97	1.61	0.68	4	1
5084	5.58	0.18	0.16	3	2
5086	6.17	1.47	1.80	3	2
5087	6.51	0.96	0.59	3	2
5089	3.88	1.16	1.03	2	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5090	6.47	0.10	.	3	2
5092	6.16	1.04	.	6	2
5093	6.37	-0.02	-0.08	3	2
5095	4.69	1.60	1.96	5	1
5098	6.45	0.44	.	3	2
5100	5.21	0.96	0.60	3	2
5102	6.11	0.96	0.70	2	1
5103	6.33	-0.05	.	3	2
5105	4.94	0.02	0.00	8	1
5107	3.38	0.12	0.09	4	1
5110	4.98	0.40	0.06	8	1
5111	5.73	0.95	0.65	3	2
5112	4.70	0.12	0.11	4	1
5113	5.63	0.50	.	3	2
5115	6.34	0.01	-0.26	3	2
5118	5.98	0.94	.	6	2
5119	6.10	1.42	1.73	3	2
5122	6.42	1.12	.	3	2
5125	6.59	1.30	1.09	3	2
5127	4.83	0.23	0.09	4	1
5128	5.83	0.40	.	6	2
5130	5.79	0.39	0.02	3	2
5132	2.30	-0.22	-0.92	6	2
5140	5.38	-0.03	.	3	2
5146	6.59	0.07	.	3	2
5154	4.66	1.63	1.96	5	1
5156	6.16	0.42	-0.04	3	2
5158	6.47	-0.13	.	3	2
5159	5.37	1.10	1.05	2	1
5163	6.51	0.05	0.01	3	2
5165	5.60	0.81	0.41	3	1
5167	5.81	0.02	.	3	2
5168	4.22	0.38	0.00	6	2
5171	6.41	1.84	.	3	2
5172	4.55	0.96	0.72	6	2
5174	5.15	-0.02	.	3	2
5175	5.91	0.29	.	3	2
5176	5.45	1.36	.	3	2
5178	6.05	1.42	1.66	3	2
5181	5.44	1.61	1.93	2	1
5183	6.33	0.63	0.16	3	2
5185	4.50	0.48	0.04	6	1
5188	5.95	1.46	1.57	3	2
5189	6.52	0.57	.	6	2
5190	3.41	-0.22	-0.85	3	2
5191	1.86	-0.19	-0.67	9	1
5192	4.19	1.50	1.45	9	2
5193	2.94	-0.16	.	3	2
5194	5.75	1.73	2.02	3	2
5200	4.07	1.52	1.88	4	1
5205	6.01	0.90	0.59	3	2
5208	6.35	0.48	.	3	2
5209	6.45	0.69	0.27	3	1
5210	4.32	-0.13	-0.60	3	2
5212	6.12	0.48	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5214	6.65	0.12	0.07	3	1
5217	5.89	0.01	.	4	2
5218	5.71	1.49	1.67	3	2
5219	4.75	1.65	1.96	4	1
5221	4.73	-0.14	-0.55	3	2
5224	6.19	1.02	.	3	2
5226	4.66	1.57	1.89	4	1
5228	4.55	0.76	.	9	1
5231	2.55	-0.22	-0.91	3	2
5232	5.15	1.08	1.08	3	2
5233	6.19	0.53	.	9	1
5234	6.13	0.08	.	3	2
5235	2.68	0.58	0.20	9	1
5239	5.83	1.14	.	6	2
5240	6.09	0.03	-0.17	3	2
5241	4.71	1.11	1.04	6	2
5242	6.20	1.05	0.81	3	2
5244	5.91	0.20	0.14	3	2
5248	3.83	-0.21	-0.83	3	2
5249	3.87	-0.20	-0.80	6	2
5252	6.49	0.33	.	3	2
5253	5.97	0.35	0.07	3	2
5258	6.40	0.49	0.06	3	2
5260	4.34	0.60	0.27	6	2
5262	5.99	0.09	0.10	3	2
5264	4.26	0.10	0.13	9	1
5266	5.92	1.22	.	3	2
5268	6.18	0.48	.	3	2
5269	6.11	-0.11	.	3	2
5270	6.20	0.90	0.38	2	1
5274	6.26	0.94	0.70	3	2
5275	6.24	0.39	-0.02	3	2
5278	6.17	0.23	.	3	2
5279	6.02	0.58	0.06	6	2
5281	6.42	0.12	.	6	2
5283	6.28	1.02	0.87	3	2
5285	4.36	-0.19	-0.77	6	2
5287	3.28	1.12	1.04	4	1
5288	2.06	0.99	0.90	2	2
5289	6.40	1.02	.	3	2
5290	5.46	0.34	.	9	1
5291	3.65	-0.05	-0.08	7	1
5293	6.05	1.74	1.84	3	2
5295	6.06	0.18	0.15	3	2
5296	6.00	-0.06	.	3	2
5297	4.75	0.94	0.72	6	2
5299	5.28	1.58	1.66	3	1
5303	4.91	0.25	0.11	3	2
5304	4.83	0.54	0.07	8	1
5306	6.47	1.42	1.42	3	2
5307	6.43	0.48	0.04	3	2
5311	6.11	0.05	.	3	2
5313	5.02	-0.12	-0.44	5	1
5315	4.21	1.32	1.47	2	1
5316	5.07	-0.08	.	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5317	5.93	0.47	0.02	2	1
5318	5.61	0.93	.	3	2
5320	5.75	-0.06	-0.86	3	2
5322	6.36	0.60	0.16	3	2
5325	6.31	0.60	.	3	2
5327	6.42	0.02	-0.33	3	2
5328	4.41	0.20	0.09	2	1
5336	5.06	-0.10	-0.56	3	2
5338	4.09	0.51	0.04	5	1
5339	4.32	1.31	1.45	3	2
5340	-0.05	1.23	1.28	9	1
5343	5.98	0.26	0.05	3	1
5348	6.54	0.27	.	3	2
5349	5.23	0.29	.	3	2
5350	4.75	0.20	0.06	3	1
5351	4.18	0.08	0.05	3	1
5353	6.48	0.72	.	3	2
5354	3.55	-0.18	-0.72	6	2
5356	5.87	0.50	.	3	2
5357	5.94	0.08	.	3	2
5358	4.33	0.12	.	6	2
5359	4.52	0.13	0.09	4	1
5361	4.81	1.06	0.92	4	1
5364	4.77	0.31	.	3	2
5365	5.41	0.38	-0.03	5	1
5367	4.05	-0.03	-0.11	6	2
5368	6.19	0.20	0.09	3	2
5370	4.86	1.23	1.41	5	1
5373	6.33	0.05	0.05	3	1
5375	6.09	-0.13	.	3	2
5378	4.42	-0.18	-0.74	3	2
5379	5.61	0.49	0.01	3	2
5380	6.00	1.10	.	3	2
5381	4.75	1.31	1.53	5	1
5382	6.36	0.13	0.06	3	2
5384	6.27	0.63	0.08	6	1
5385	4.87	0.05	-0.03	3	2
5388	5.95	0.06	0.08	3	2
5389	6.07	1.18	1.11	3	2
5391	5.85	1.50	1.76	3	2
5393	6.49	0.42	.	9	1
5394	6.19	1.20	1.29	3	2
5395	4.56	-0.15	-0.78	3	2
5396	4.35	0.43	0.18	3	2
5398	6.32	1.19	.	6	2
5400	6.35	-0.08	.	3	2
5401	5.83	0.30	0.16	3	2
5403	6.45	0.14	.	3	2
5404	4.06	0.50	0.01	6	1
5407	4.97	-0.07	-0.41	6	2
5408	5.83	1.00	0.78	3	2
5409	4.82	0.74	0.21	2	1
5412	5.50	-0.08	-0.27	3	2
5413	5.37	0.05	.	3	2
5418	5.94	0.16	0.11	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5425	4.42	-0.19	-0.84	6	2
5426	5.87	0.48	.	6	2
5427	5.87	1.09	.	6	2
5429	3.59	1.30	1.44	5	1
5430	4.25	1.44	1.70	3	1
5432	6.40	1.26	.	3	2
5435	3.02	0.19	0.11	5	1
5440	2.31	-0.19	-0.82	3	2
5443	6.04	0.50	-0.02	6	2
5444	5.55	1.48	.	3	2
5447	4.47	0.37	-0.08	6	1
5450	5.41	1.00	0.71	3	2
5453	4.05	-0.15	-0.56	3	2
5455	6.20	0.47	-0.04	1	1
5457	6.07	0.51	0.04	3	2
5458	6.39	0.44	.	3	2
5461	6.30	1.18	.	6	2
5463	3.19	0.24	0.12	3	2
5464	5.70	1.48	1.69	2	1
5465	6.22	0.45	.	6	2
5466	5.67	-0.08	.	3	2
5469	2.30	-0.20	-0.88	3	2
5470	3.83	1.43	1.68	3	2
5471	4.00	-0.17	-0.69	3	2
5475	4.54	-0.04	-0.31	2	1
5477	3.78	0.05	0.05	8	1
5479	6.26	1.30	1.46	2	1
5481	5.56	0.94	0.67	2	1
5482	5.36	0.29	.	3	2
5485	4.05	1.35	1.53	3	2
5486	6.11	1.02	.	6	2
5487	3.88	0.38	-0.02	5	1
5488	6.10	-0.06	.	6	2
5489	4.92	0.01	-0.03	3	2
5490	4.81	1.66	1.94	4	1
5491	6.48	0.30	0.10	6	2
5492	6.25	0.41	-0.01	4	1
5494	5.74	0.07	0.09	3	2
5500	5.91	-0.07	-0.70	3	2
5502	4.60	0.98	0.75	5	1
5505	2.37	0.97	0.73	4	1
5509	6.30	1.08	0.88	3	2
5511	3.73	-0.01	-0.03	9	1
5515	6.23	1.13	.	9	2
5520	5.60	0.82	0.42	3	2
5525	5.65	0.95	0.74	3	2
5526	4.41	1.40	1.48	3	1
5528	4.33	-0.14	-0.60	3	2
5530	5.16	0.41	-0.03	7	1
5531	2.75	0.15	0.09	9	1
5535	4.95	0.98	0.70	2	1
5539	6.09	-0.06	-0.60	3	2
5541	5.48	1.02	0.84	2	1
5542	6.29	0.60	.	3	2
5543	5.03	-0.16	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5544	4.54	0.77	0.29	6	1
5545	5.65	1.30	1.15	3	2
5546	5.20	1.16	.	6	2
5547	5.93	1.05	0.81	3	2
5552	5.46	1.36	1.60	2	1
5555	6.20	-0.04	-0.20	3	2
5557	5.91	-0.06	-0.13	3	2
5559	5.64	-0.04	-0.27	3	2
5563	2.08	1.47	1.78	6	1
5566	6.35	0.71	.	6	2
5568	5.71	1.11	1.06	4	1
5570	4.49	0.32	0.05	9	1
5571	2.68	-0.22	-0.86	3	2
5576	3.13	-0.20	-0.78	3	2
5580	6.10	0.60	.	3	2
5583	6.09	0.50	0.05	6	2
5586	4.93	0.00	-0.10	3	1
5589	4.59	1.59	1.59	3	1
5591	5.85	0.16	.	3	2
5598	6.52	1.59	1.86	6	2
5600	4.82	1.50	1.83	3	1
5601	4.40	1.04	0.87	4	1
5602	3.50	0.97	0.72	3	1
5603	3.27	1.71	1.96	5	1
5604	6.41	1.46	.	3	2
5605	3.89	-0.14	-0.58	3	2
5611	6.17	1.47	1.70	6	2
5614	6.67	-0.01	.	3	2
5616	4.55	1.23	1.34	3	1
5617	5.77	0.92	.	3	2
5618	4.76	0.65	0.11	3	1
5621	5.76	0.69	0.39	6	2
5624	5.80	-0.14	.	6	2
5625	5.85	-0.12	.	3	2
5626	4.05	-0.18	-0.68	6	2
5628	6.01	0.00	-0.24	3	2
5631	6.16	0.94	0.71	3	2
5632	6.30	0.63	.	3	2
5634	4.93	0.43	-0.02	9	1
5646	3.87	-0.05	-0.14	3	2
5647	5.69	0.14	0.09	3	2
5649	3.41	0.92	0.66	6	2
5650	6.33	1.12	.	3	2
5651	4.82	-0.17	-0.67	6	2
5652	4.54	-0.08	-0.37	3	1
5653	6.10	-0.08	.	3	2
5655	6.47	-0.04	.	3	2
5656	6.08	0.12	.	3	2
5657	6.45	0.70	.	3	2
5659	6.68	0.68	0.25	2	1
5660	4.91	0.37	0.28	3	2
5661	5.73	-0.08	-0.87	6	2
5664	5.09	-0.06	-0.91	3	2
5666	4.86	1.25	1.32	3	2
5670	4.07	0.09	0.09	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5671	2.89	0.00	-0.02	3	2
5679	5.63	0.18	0.09	3	2
5681	3.49	0.95	0.68	5	1
5682	6.28	0.18	.	3	2
5683	4.27	-0.09	-0.37	3	2
5684	6.28	-0.09	-0.60	6	2
5685	2.61	-0.11	-0.36	9	1
5686	4.33	1.10	1.07	2	2
5687	5.59	-0.10	.	3	2
5689	6.20	0.96	.	3	2
5691	5.13	0.53	0.08	3	1
5694	5.06	0.54	0.06	5	1
5695	3.22	-0.22	-0.88	3	2
5698	5.00	0.50	.	3	2
5699	5.65	0.65	.	3	2
5700	5.67	0.48	.	3	2
5701	6.17	1.02	.	3	2
5704	4.51	0.19	-0.35	3	2
5705	3.56	1.54	1.87	3	2
5708	3.37	-0.18	-0.73	3	2
5709	5.51	1.02	0.77	2	1
5710	5.35	1.19	1.22	3	2
5712	4.54	-0.15	-0.62	3	2
5713	5.89	1.02	0.77	6	2
5721	6.12	0.26	0.05	3	1
5723	4.94	0.44	0.02	3	2
5724	4.60	0.00	-0.06	3	2
5725	5.71	1.64	1.98	6	2
5727	4.98	0.58	0.04	3	1
5729	5.57	0.11	0.08	3	2
5730	5.49	-0.12	-0.76	3	2
5733	4.32	0.31	0.06	5	1
5734	6.50	0.59	0.13	2	1
5735	3.05	0.05	0.12	3	1
5736	5.45	-0.15	.	4	2
5739	5.17	1.66	1.95	2	1
5741	5.46	1.40	1.64	2	1
5742	5.24	1.74	.	3	2
5744	3.29	1.16	1.22	5	1
5747	3.68	0.29	0.11	5	1
5751	6.25	0.20	.	3	2
5756	6.22	0.22	.	6	2
5757	6.18	1.21	1.36	6	2
5763	5.02	1.59	1.91	3	1
5764	5.50	-0.14	.	3	2
5766	6.51	0.35	0.03	6	2
5771	4.11	1.17	1.16	3	2
5774	5.02	0.07	0.11	3	1
5776	2.78	-0.20	-0.82	3	2
5777	4.62	1.01	0.85	5	1
5778	4.13	-0.13	-0.55	3	1
5779	6.51	0.58	0.04	3	2
5780	5.18	-0.09	-0.45	3	2
5781	4.54	-0.18	-0.68	6	2
5782	5.65	-0.04	-0.38	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5784	5.43	1.50	.	3	2
5786	5.95	-0.04	-0.16	3	2
5787	3.91	1.02	0.74	2	1
5788	3.80	0.26	0.13	3	1
5792	6.44	0.08	0.08	3	2
5793	2.24	-0.02	-0.02	8	1
5794	3.57	1.39	1.58	4	1
5797	4.33	1.43	1.72	3	2
5798	5.44	0.00	.	3	2
5803	5.95	0.48	.	6	2
5812	3.65	-0.18	-0.69	3	1
5814	5.38	0.86	0.54	2	1
5820	4.67	1.00	0.73	3	2
5823	5.24	0.88	0.53	2	1
5824	4.96	1.33	1.51	6	2
5825	4.64	0.40	-0.03	6	2
5829	6.58	0.67	0.13	2	1
5830	5.75	0.36	-0.02	3	1
5836	6.49	1.05	.	6	2
5838	4.72	1.58	1.94	3	1
5839	4.75	-0.14	-0.53	3	2
5840	6.01	0.90	0.61	3	1
5842	4.53	0.05	0.02	5	1
5843	5.33	0.04	0.05	3	1
5846	5.94	0.00	-0.20	3	2
5848	5.41	0.23	.	3	2
5849	3.85	-0.01	-0.04	3	1
5851	5.53	0.23	0.10	6	2
5854	2.64	1.17	1.25	9	1
5856	6.51	0.32	.	3	2
5859	5.58	0.04	0.03	5	1
5860	5.61	-0.11	-0.42	3	2
5861	6.33	1.19	1.20	3	2
5863	5.39	-0.03	-0.40	3	2
5864	6.01	0.72	.	3	2
5865	6.07	1.38	.	3	2
5867	3.67	0.06	0.08	9	1
5868	4.43	0.60	0.10	9	1
5869	5.77	-0.08	-0.23	6	2
5871	5.84	0.07	0.06	3	2
5872	6.12	0.29	.	3	2
5873	5.73	0.06	.	3	2
5875	5.53	0.12	0.11	3	2
5876	6.54	0.19	0.12	6	2
5879	4.09	1.62	1.95	3	1
5881	3.53	-0.04	-0.11	3	1
5882	6.01	1.16	.	3	2
5883	3.95	-0.04	-0.14	6	2
5864	6.19	1.47	.	6	2
5885	4.68	-0.06	-0.73	2	1
5888	5.23	1.02	0.82	3	1
5889	4.63	0.80	0.37	4	1
5891	5.09	1.13	0.93	3	2
5892	3.70	0.16	0.09	3	1
5893	6.40	0.98	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5895	5.11	0.12	0.07	3	2
5897	2.85	0.29	0.05	6	2
5898	6.15	0.10	.	3	2
5899	4.78	1.54	1.89	2	1
5900	5.77	0.34	.	3	2
5901	4.82	1.00	0.87	4	1
5902	5.03	-0.01	.	3	2
5903	4.32	0.04	0.05	6	1
5904	4.59	-0.06	-0.67	4	1
5905	5.76	0.06	.	3	2
5906	5.39	-0.02	.	3	2
5907	5.43	-0.04	.	3	2
5908	4.16	1.01	0.82	4	1
5911	6.10	0.60	0.00	2	1
5914	4.62	0.57	0.00	6	1
5915	5.93	-0.02	.	3	2
5919	6.29	0.18	0.09	3	2
5920	5.75	-0.06	-0.40	6	2
5921	6.30	0.37	.	3	2
5924	5.44	1.59	1.94	2	1
5925	4.59	0.09	0.08	3	2
5928	3.86	-0.20	-0.82	3	1
5930	6.13	0.23	.	3	2
5932	5.38	1.64	1.97	6	2
5933	3.86	0.48	-0.03	9	1
5936	5.45	0.33	0.03	2	1
5941	4.87	-0.10	-0.16	5	1
5943	4.99	1.00	.	3	2
5944	2.91	-0.20	-0.89	3	1
5946	6.13	0.25	.	3	2
5947	4.15	1.23	1.28	9	1
5948	3.41	-0.22	-0.84	3	2
5951	6.25	-0.04	.	3	2
5952	6.21	0.01	-0.01	3	2
5953	2.32	-0.12	-0.90	4	1
5954	5.48	0.52	0.02	2	1
5955	5.70	1.17	1.26	3	2
5959	5.55	0.05	-0.05	3	2
5960	4.95	0.26	0.04	3	1
5961	4.63	0.24	0.09	6	2
5962	4.65	0.92	0.64	6	2
5966	5.12	0.98	0.74	2	1
5967	4.89	-0.14	-0.57	6	2
5968	5.40	0.60	0.09	3	1
5971	4.98	-0.07	-0.20	3	1
5972	4.83	0.07	0.05	3	1
5974	6.10	0.34	.	3	2
5977	4.17	0.47	0.01	2	1
5980	4.72	0.23	0.15	6	2
5982	4.76	-0.11	-0.32	3	1
5984	2.63	-0.08	-0.88	3	1
5985	4.92	-0.02	-0.70	3	1
5986	4.03	0.52	0.10	6	1
5987	4.23	-0.18	-0.69	3	2
5991	5.73	0.29	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5992	6.29	0.08	0.11	3	2
5993	3.97	-0.05	-0.82	3	1
5996	6.32	0.66	.	3	2
5997	4.33	0.84	0.50	2	1
6005	6.14	1.37	1.51	2	1
6012	6.47	0.44	.	3	2
6014	5.98	1.02	0.76	2	1
6015	5.86	0.27	.	3	2
6016	5.37	1.45	1.46	3	2
6018	4.76	1.01	0.87	6	1
6019	5.81	0.34	.	3	2
6020	4.67	1.69	1.68	3	2
6021	5.27	1.41	1.62	3	2
6023	4.27	-0.07	-0.28	2	1
6026	4.00	0.05	-0.62	3	2
6027	4.01	0.03	-0.64	5	1
6028	4.59	-0.16	-0.74	4	1
6029	5.69	0.02	.	3	2
6030	3.85	1.11	0.86	9	2
6031	4.93	0.09	0.11	3	1
6032	6.53	0.24	0.10	3	2
6037	5.75	0.15	0.09	3	2
6040	5.63	0.14	.	3	2
6056	2.75	1.59	1.96	4	1
6058	4.99	0.80	0.51	6	2
6059	6.33	0.28	.	3	2
6060	5.49	0.65	0.17	2	2
6070	4.77	0.02	-0.01	3	1
6071	5.45	0.10	.	3	2
6072	4.02	1.08	1.16	3	2
6074	5.78	0.07	0.10	3	1
6075	3.23	0.98	0.74	3	1
6076	6.28	1.07	0.77	4	1
6081	4.57	0.84	0.67	3	1
6084	2.88	0.13	-0.70	5	1
6089	6.15	0.03	.	3	2
6092	3.90	-0.15	-0.56	9	1
6093	4.82	0.34	0.02	4	1
6094	5.39	0.62	.	3	2
6095	3.76	0.27	0.19	7	1
6098	4.91	0.55	0.04	3	2
6102	3.89	0.91	0.62	3	2
6103	4.85	0.97	0.80	4	1
6104	4.50	1.03	0.84	2	1
6105	5.41	0.60	.	3	2
6111	5.85	-0.01	0.01	3	2
6112	4.63	0.22	-0.55	2	1
6114	5.69	0.00	.	3	2
6115	4.47	-0.07	-0.54	3	2
6117	4.58	-0.01	-0.04	7	1
6118	4.43	0.28	-0.77	3	1
6129	4.63	0.16	0.06	5	1
6132	2.74	0.91	0.71	4	1
6133	6.57	0.91	0.56	6	2
6134	0.91	1.84	1.33	9	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
6135	5.50	1.22	1.24	3	2
6136	5.39	1.46	1.80	3	2
6139	6.04	0.05	0.02	3	2
6141	4.79	-0.07	-0.79	2	1
6142	5.33	0.33	.	3	2
6143	4.23	-0.16	-0.79	6	2
6146	5.01	1.52	1.17	3	1
6147	4.27	0.92	0.70	2	1
6148	2.77	0.94	0.69	5	1
6149	3.83	0.01	0.01	4	1
6151	5.52	0.93	0.73	3	2
6153	4.45	0.11	0.13	3	1
6159	4.85	1.49	1.83	5	1
6161	5.01	-0.06	-0.11	2	1
6163	4.24	1.06	0.95	3	2
6165	2.81	-0.25	-1.01	3	1
6166	4.16	1.57	1.93	3	2
6168	4.20	-0.01	-0.10	3	1
6171	5.74	0.81	0.45	3	1
6172	5.91	-0.08	-0.42	3	2
6175	2.56	0.02	-0.86	9	1
6177	6.18	0.48	.	3	2
6182	6.03	0.02	0.02	3	2
6188	5.66	-0.03	.	3	2
6191	6.34	1.00	0.71	2	1
6192	5.87	0.65	.	3	2
6193	6.09	0.20	.	3	2
6201	6.24	0.30	0.07	3	2
6204	5.13	-0.08	-0.45	3	2
6212	2.81	0.65	0.21	7	1
6217	1.92	1.44	1.56	3	2
6220	3.50	0.92	0.60	3	1
6226	6.16	0.07	0.11	2	1
6228	5.15	1.53	1.94	3	2
6229	3.76	1.57	1.93	3	2
6231	6.32	1.28	1.51	3	2
6233	6.13	-0.02	-0.28	3	2
6236	6.47	0.31	.	3	2
6237	4.84	0.39	-0.06	3	1
6241	2.29	1.16	1.17	3	2
6243	4.66	0.47	0.07	3	1
6247	3.03	-0.22	.	2	2
6248	6.32	0.42	-0.05	3	2
6250	5.49	0.10	0.11	3	2
6251	5.94	1.59	.	3	2
6252	3.57	-0.21	-0.84	6	2
6254	4.82	0.09	0.03	6	1
6255	5.51	0.05	0.03	3	2
6271	3.59	1.36	1.61	1	1
6274	6.33	-0.02	.	3	2
6276	5.79	-0.10	-0.44	3	2
6281	4.38	-0.08	-0.32	2	1
6282	6.37	1.71	.	3	2
6283	6.11	0.27	.	3	2
6285	3.13	1.60	1.96	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
6288	5.48	1.59	.	3	2
6292	6.08	0.92	0.62	3	1
6293	5.35	1.41	1.66	2	1
6295	4.06	1.45	1.71	6	2
6296	6.19	1.00	.	3	2
6297	5.65	0.19	.	3	2
6298	6.09	0.19	.	3	2
6299	3.20	1.16	1.16	3	1
6300	6.00	0.88	.	3	2
6303	6.65	1.80	.	3	2
6304	6.11	-0.03	.	3	2
6312	6.45	0.27	.	3	2
6313	6.34	1.28	1.41	2	1
6315	4.90	0.48	-0.03	5	1
6318	4.83	1.48	1.80	3	2
6322	4.23	0.90	0.55	4	1
6324	3.92	-0.01	-0.10	3	1
6327	5.92	0.37	.	3	2
6329	6.33	0.09	0.06	3	2
6334	4.87	0.26	-0.69	6	2
6337	4.98	1.60	1.92	7	1
6342	6.09	1.02	0.85	2	1
6347	6.12	0.51	.	3	2
6349	6.01	0.58	0.06	3	2
6355	4.91	0.12	0.05	3	1
6357	6.22	1.06	1.04	3	2
6358	6.37	1.45	1.73	3	2
6364	5.55	1.30	1.52	2	1
6366	5.97	0.25	.	3	2
6368	5.89	1.06	0.90	3	2
6371	5.08	0.86	0.58	3	2
6373	6.25	-0.01	0.00	3	2
6378	2.42	0.05	0.09	3	1
6380	3.34	0.40	0.09	3	2
6381	5.67	0.04	.	3	2
6389	6.01	0.07	.	3	2
6390	6.33	1.04	0.86	3	2
6396	3.17	-0.11	-0.43	3	1
6398	5.96	0.58	.	6	2
6400	6.53	0.60	0.15	6	2
6401	4.32	0.86	0.49	3	1
6405	6.12	0.48	.	3	2
6406	3.06	1.45	1.01	4	1
6410	3.13	0.08	0.08	7	1
6411	5.41	-0.04	-0.23	3	2
6415	4.72	1.15	1.11	3	1
6416	5.48	0.80	0.38	3	2
6417	4.78	1.21	1.27	3	2
6418	3.16	1.44	1.66	4	1
6420	5.77	-0.05	-0.14	3	2
6426	5.91	1.04	0.82	3	1
6427	6.65	0.20	0.00	3	2
6429	5.88	1.67	1.80	3	2
6431	4.78	-0.15	-0.76	3	1
6433	5.03	1.55	1.90	2	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
6434	6.51	0.38	0.14	3	2
6436	4.66	0.05	-0.03	3	1
6438	5.88	1.07	.	3	2
6439	6.32	0.85	0.47	6	2
6441	6.52	0.58	.	3	2
6442	5.80	1.00	.	3	2
6445	4.38	0.41	-0.06	2	1
6446	4.31	0.03	0.03	3	1
6447	5.77	-0.08	.	3	2
6449	6.45	0.33	.	3	2
6451	5.25	-0.11	-0.81	3	2
6453	3.26	-0.23	-0.86	5	1
6454	6.47	0.54	.	3	2
6456	5.93	1.08	.	3	2
6458	5.39	0.62	0.07	3	1
6460	5.12	-0.06	-0.40	3	2
6461	2.85	1.46	1.56	3	2
6462	3.34	-0.13	-0.95	3	2
6465	6.29	0.68	0.24	3	2
6468	5.23	1.06	.	3	2
6476	5.77	1.25	1.27	3	2
6477	5.29	-0.07	-0.34	3	2
6484	4.17	0.00	-0.06	3	1
6486	4.16	0.28	0.12	4	1
6489	6.44	0.46	-0.02	3	2
6492	4.27	0.40	0.07	3	1
6493	4.54	0.41	-0.08	3	1
6498	4.33	1.50	1.58	3	1
6500	3.62	-0.10	-0.31	3	2
6503	6.39	0.09	.	3	2
6504	6.37	0.58	0.16	3	2
6505	5.95	-0.08	.	3	2
6508	2.68	-0.23	-0.81	2	2
6510	2.95	-0.17	-0.69	6	2
6512	6.37	0.93	0.67	3	2
6516	5.31	0.72	0.31	3	2
6518	6.43	0.76	0.29	3	1
6519	4.81	0.00	-0.06	3	1
6525	6.28	-0.08	.	3	2
6526	4.41	1.44	1.68	3	1
6527	1.63	-0.22	-0.89	3	2
6536	2.78	1.00	0.64	3	1
6537	4.59	-0.02	-0.09	3	2
6546	4.29	1.09	0.90	6	2
6547	5.93	1.10	.	3	2
6548	5.49	0.02	0.01	3	2
6549	5.25	0.20	.	3	2
6552	6.45	0.44	0.02	3	2
6553	1.87	0.40	0.21	3	2
6554	4.88	0.26	0.03	6	1
6555	4.88	0.27	0.04	7	1
6556	2.07	0.15	0.10	9	1
6558	6.10	-0.06	-0.26	3	2
6561	3.52	0.24	0.13	2	1
6565	6.49	0.48	-0.04	6	2

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
6566	5.05	1.08	0.92	2	1
6567	4.63	0.11	-0.18	3	1
6569	4.77	0.40	-0.04	3	2
6572	5.79	-0.01	-0.06	3	2
6573	5.23	0.61	0.10	3	1
6575	6.25	1.02	0.83	3	2
6580	2.41	-0.21	-0.88	2	1
6581	4.24	0.08	0.11	2	1
6582	3.62	1.19	1.17	6	2
6585	5.15	0.70	•	3	2
6588	3.80	-0.18	-0.69	9	1
6590	5.95	1.26	1.18	3	2
6592	6.36	1.20	1.18	2	1
6595	4.87	0.47	-0.04	3	1
6596	4.80	0.43	-0.01	3	1
6600	6.38	0.37	•	3	2
6602	5.51	1.46	1.68	2	1
6603	2.77	1.17	1.24	9	1
6613	6.43	-0.02	•	3	2
6615	3.03	0.51	0.26	3	2
6623	3.42	0.75	0.39	9	1
6628	4.83	-0.04	-0.29	6	2
6629	3.75	0.04	0.04	9	1
6630	3.21	1.17	1.19	3	2
6631	4.81	0.26	0.00	6	2
6633	6.22	0.16	-0.03	3	2
6634	6.49	1.08	1.00	3	2
6635	6.07	1.20	1.28	3	2
6636	4.58	0.43	0.01	3	1
6646	6.35	1.50	1.75	3	2
6647	5.90	-0.10	-0.64	2	2
6649	6.20	0.54	•	3	2
6652	6.45	0.02	-0.07	1	1
6657	6.17	-0.03	-0.35	9	1
6658	5.60	1.14	1.01	1	1
6663	6.40	0.00	-0.06	2	1
6668	5.96	-0.01	-0.10	4	1
6670	5.77	0.42	-0.01	3	2
6672	6.20	0.04	-0.89	3	1
6675	4.86	1.21	1.22	6	2
6679	6.52	0.05	0.05	9	1
6682	4.88	1.65	1.96	3	2
6685	5.45	0.34	0.27	7	1
6688	3.75	1.18	1.21	3	1
6690	6.29	0.00	-0.25	3	2
6693	4.99	1.62	•	3	2
6695	3.87	1.35	1.46	3	1
6698	3.34	0.99	0.87	5	1
6700	4.75	-0.05	-0.04	3	1
6703	3.70	0.94	0.70	3	1
6705	2.22	1.52	1.88	9	1
6707	4.41	0.39	0.15	3	1
6710	4.62	0.39	0.00	7	1
6712	4.60	-0.02	-0.81	3	1
6713	4.68	1.27	1.22	3	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
6714	3.97	0.02	-0.64	3	1
6719	6.33	-0.08	-0.75	3	2
6721	5.28	1.28	1.60	3	2
6723	4.42	0.04	0.02	2	1
6727	6.74	-0.05	•	3	2
6731	5.86	1.24	1.43	3	2
6733	4.79	0.38	0.05	3	2
6736	5.97	0.00	-0.89	2	1
6740	6.41	1.26	1.41	3	2
6743	3.66	-0.08	-0.84	6	2
6745	4.35	0.22	0.18	6	2
6746	2.99	1.01	0.77	3	2
6747	6.13	0.00	-0.90	3	2
6748	5.95	0.62	•	3	2
6749	4.95	0.22	•	3	2
6751	5.85	0.46	0.05	3	2
6752	4.03	0.86	0.51	5	1
6759	6.15	-0.08	•	3	2
6761	5.49	0.58	•	3	2
6762	6.29	0.12	-0.78	3	1
6766	4.55	0.95	0.75	2	1
6769	5.52	1.11	1.08	2	1
6770	4.63	0.97	0.73	3	1
6771	3.73	0.12	0.10	3	1
6774	6.73	-0.03	-0.36	3	2
6775	5.04	0.52	-0.10	4	1
6778	6.07	1.20	•	3	2
6779	3.83	-0.02	-0.07	3	1
6780	5.53	0.97	•	6	2
6781	5.86	0.12	0.08	2	1
6782	5.90	0.14	0.08	2	1
6783	4.53	1.01	0.78	6	2
6786	5.86	0.29	•	3	2
6787	4.35	-0.15	-0.82	3	1
6788	6.16	-0.15	•	3	2
6789	4.36	0.02	0.03	8	1
6793	5.47	1.17	1.21	2	1
6795	5.73	0.37	0.03	3	2
6804	5.47	-0.17	•	3	2
6806	6.40	0.87	0.59	4	1
6808	6.33	-0.04	-0.23	3	2
6809	6.04	0.51	-0.01	2	1
6810	5.68	0.50	-0.01	2	1
6811	5.79	0.25	0.07	5	1
6812	3.85	0.22	-0.47	2	1
6813	6.59	0.27	0.14	3	2
6817	5.94	0.94	0.72	2	1
6820	6.12	1.47	1.72	2	1
6822	5.38	0.07	-0.87	3	1
6823	5.98	0.04	-0.88	3	1
6828	6.18	0.58	•	6	2
6829	5.47	0.02	0.04	3	2
6832	3.11	1.56	1.70	3	2
6836	6.40	0.54	•	3	2
6837	5.95	1.16	1.27	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
6840	6.00	0.89	0.55	2	1
6841	6.54	0.12	-0.84	3	1
6842	4.63	1.66	1.80	3	1
6853	6.10	1.00	0.70	2	1
6855	4.36	1.48	1.55	6	2
6857	5.39	1.07	1.06	3	2
6859	2.70	1.38	1.55	6	1
6866	4.84	0.91	0.61	4	1
6868	4.96	1.58	2.00	2	1
6869	3.25	0.94	0.65	6	1
6872	4.34	1.17	1.18	2	1
6875	5.25	-0.19	•	3	2
6879	1.85	-0.03	-0.13	3	2
6884	4.68	0.94	0.71	2	1
6888	5.60	1.14	•	3	2
6892	6.31	1.16	1.09	3	2
6895	3.84	1.18	1.17	4	1
6896	4.81	1.30	0.93	3	1
6897	3.51	-0.17	-0.64	6	2
6899	5.89	0.98	0.83	3	2
6902	5.65	0.92	0.45	3	2
6905	4.13	1.02	0.82	6	2
6912	6.27	-0.13	-0.37	3	2
6913	2.81	1.04	0.90	6	1
6916	4.64	-0.11	-0.39	6	2
6917	5.83	0.07	0.09	4	1
6918	5.21	0.50	0.21	4	1
6920	4.22	-0.10	-0.33	3	1
6921	6.63	-0.02	•	3	2
6923	4.99	0.08	0.05	2	1
6925	6.07	1.62	1.83	3	2
6927	3.58	0.49	-0.06	6	1
6928	5.72	-0.03	-0.36	3	2
6930	4.71	0.07	0.04	3	1
6934	4.96	-0.11	•	3	2
6939	6.44	0.68	•	3	2
6945	4.82	1.19	1.11	3	1
6951	4.64	1.02	0.76	6	2
6957	5.94	0.16	0.16	3	2
6958	6.43	-0.04	-0.26	3	2
6964	7.16	1.26	1.30	3	2
6967	6.42	-0.03	-0.34	3	2
6970	5.14	0.92	•	3	2
6973	3.83	1.34	1.53	4	1
6978	4.80	0.61	0.44	2	1
6982	4.01	1.14	1.02	6	2
6985	5.39	0.37	-0.02	3	2
6987	5.45	0.37	-0.04	3	2
6993	5.74	0.06	0.06	7	1
6994	6.39	0.60	0.13	3	2
6996	6.37	0.15	0.14	3	2
7001	0.03	0.00	0.00	9	1
7004	5.78	0.96	0.77	3	2
7005	6.49	1.22	•	6	2
7010	6.28	0.96	0.69	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
7012	4.79	0.20	0.08	6	2
7020	4.72	0.35	0.16	2	1
7027	6.06	0.00	-0.09	3	2
7029	4.87	-0.18	-0.71	6	2
7032	4.89	1.12	•	3	2
7034	6.31	0.48	0.02	3	2
7036	5.73	0.24	0.11	3	2
7039	3.16	-0.11	-0.36	5	1
7048	5.83	0.04	0.03	3	2
7050	5.24	0.78	•	3	2
7056	4.36	0.19	0.16	5	1
7057	5.74	0.28	0.06	2	1
7059	5.64	0.14	0.08	5	1
7061	4.19	0.46	0.02	6	1
7062	5.49	0.13	•	3	2
7063	4.22	1.09	0.83	2	1
7064	4.84	1.20	1.22	2	1
7065	5.81	0.90	•	3	2
7066	5.20	1.47	1.64	1	1
7069	4.36	0.12	0.07	3	1
7074	4.23	-0.14	•	3	2
7077	6.75	0.20	•	3	2
7106	3.42	0.00	-0.57	3	1
7110	6.34	0.20	0.11	3	2
7116	4.83	1.40	1.28	3	1
7120	4.98	1.32	1.50	5	1
7121	2.03	-0.22	-0.75	6	1
7122	5.36	1.00	•	3	2
7125	4.67	1.19	1.04	4	1
7127	5.14	1.37	•	6	2
7130	6.01	0.97	0.80	3	2
7133	4.60	0.78	0.49	2	1
7135	5.57	1.04	0.87	3	2
7137	4.93	0.90	0.57	3	1
7139	4.30	1.67	1.65	3	1
7141	4.07	0.17	0.09	2	1
7144	6.15	0.97	0.71	3	2
7149	4.80	1.80	1.02	2	1
7150	3.51	1.18	1.13	6	1
7157	4.00	1.59	1.41	3	1
7161	5.88	0.56	0.13	6	2
7163	6.21	0.46	0.01	3	2
7172	5.22	0.53	0.07	6	1
7173	5.76	0.25	-0.44	3	2
7176	4.02	1.08	1.04	3	1
7177	6.23	0.00	•	3	2
7178	3.24	-0.05	-0.08	9	1
7180	4.82	1.15	1.10	4	1
7186	6.32	1.00	0.78	3	2
7188	4.75	-0.02	-0.07	6	2
7190	5.93	1.24	•	6	2
7193	4.02	1.09	1.04	4	1
7194	2.59	0.08	0.05	7	1
7195	5.65	1.23	•	3	2
7197	5.74	0.32	•	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
7208	6.30	1.62	1.82	3	2
7209	5.42	0.00	-0.07	3	2
7213	5.16	0.53	.	6	2
7215	5.02	0.19	0.09	4	1
7217	3.77	1.00	0.86	3	1
7219	6.73	0.13	0.14	3	2
7221	5.33	0.91	0.61	6	2
7226	4.21	0.52	0.02	6	2
7228	5.47	0.26	0.13	3	2
7232	6.16	0.72	.	6	2
7233	6.49	1.10	.	3	2
7234	3.31	1.20	1.15	5	1
7235	2.99	0.01	-0.01	9	1
7236	3.43	-0.09	-0.27	5	1
7237	5.54	1.54	1.90	2	1
7242	4.59	1.10	1.03	6	2
7254	4.11	0.04	0.08	3	2
7257	5.88	-0.08	.	3	2
7259	4.11	1.20	1.07	3	2
7264	2.88	0.34	0.24	4	1
7271	6.13	0.95	.	3	2
7273	6.57	1.02	.	3	2
7274	6.27	0.17	0.14	3	2
7278	5.53	0.18	0.13	3	2
7287	5.16	-0.07	-0.42	3	2
7292	4.83	0.55	0.32	2	1
7293	6.75	0.64	0.17	2	1
7294	6.57	0.63	0.21	2	1
7297	6.38	0.49	.	3	2
7298	4.38	-0.14	-0.66	3	1
7306	4.77	-0.04	-0.55	3	1
7310	3.07	1.00	0.78	3	1
7312	5.14	0.31	0.00	8	1
7314	4.37	1.25	1.23	2	1
7317	6.05	1.43	1.57	5	1
7320	6.34	1.23	1.25	3	2
7323	6.58	1.67	.	6	2
7325	6.32	1.05	0.88	3	2
7328	3.76	0.97	0.74	3	1
7329	5.05	0.02	.	3	2
7330	6.48	0.63	.	3	2
7334	6.34	1.14	.	3	2
7336	5.49	-0.04	-0.23	3	2
7337	3.93	-0.08	-0.32	3	2
7340	3.93	0.22	0.14	3	1
7342	4.61	0.10	-0.53	3	1
7343	4.29	0.34	0.07	6	2
7347	6.67	-0.03	.	3	2
7348	3.97	-0.10	-0.33	6	2
7349	5.83	1.09	0.97	3	2
7352	4.45	1.25	1.45	3	1
7354	6.35	0.44	-0.03	3	2
7358	5.18	-0.12	-0.53	3	1
7362	5.03	0.23	.	3	2
7371	4.59	0.02	0.06	3	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
7372	4.97	-0.09	-0.72	3	1
7373	5.16	0.78	0.42	4	1
7375	5.59	1.22	.	3	2
7377	3.36	0.32	0.04	9	1
7383	5.96	1.64	1.92	3	2
7386	6.19	0.52	-0.03	2	1
7387	4.67	0.60	0.51	3	1
7392	5.72	0.22	.	3	2
7394	6.38	1.57	1.79	5	1
7398	5.46	1.12	.	3	2
7399	6.60	0.39	.	3	2
7400	5.80	0.08	0.07	3	2
7404	6.25	1.32	1.38	3	2
7405	4.45	1.50	1.82	5	1
7417	3.08	1.13	0.62	5	1
7418	5.11	-0.10	-0.32	2	1
7420	3.79	0.14	0.11	3	1
7424	4.90	1.09	.	3	2
7426	4.74	-0.13	-0.66	3	1
7429	4.45	1.18	1.24	4	1
7431	5.67	0.19	.	3	2
7435	6.39	0.02	0.04	3	2
7437	4.99	-0.07	-0.43	3	1
7440	4.60	-0.06	-0.15	3	1
7446	4.96	0.00	-0.87	9	1
7447	4.36	-0.09	-0.44	3	1
7451	5.74	0.48	0.00	4	1
7455	6.09	1.55	1.95	3	2
7459	6.26	1.00	.	6	2
7461	6.25	0.28	.	3	2
7462	4.69	0.80	0.37	5	1
7464	6.61	0.23	.	3	2
7469	4.47	0.39	-0.03	6	1
7478	4.70	0.95	0.80	3	1
7479	4.37	0.77	0.43	3	1
7482	6.49	0.39	-0.62	3	1
7488	4.37	1.05	0.89	3	1
7489	5.06	0.33	.	3	2
7494	6.39	1.40	1.68	3	2
7498	5.41	0.22	0.12	6	2
7503	5.95	0.64	0.20	4	1
7504	6.20	0.66	0.21	4	1
7510	5.35	0.20	.	3	2
7513	6.45	1.48	1.72	3	2
7519	5.91	0.18	0.09	3	2
7524	6.05	0.30	0.08	3	2
7525	2.72	1.52	1.68	4	1
7528	2.87	-0.02	-0.10	3	1
7534	4.59	0.46	0.00	2	1
7536	3.83	1.41	0.96	3	1
7538	6.05	0.40	.	3	2
7546	5.00	0.10	0.06	3	1
7551	6.44	0.20	-0.74	3	1
7552	5.33	-0.06	.	6	2
7554	6.51	-0.10	-0.70	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
7557	0.76	0.22	0.08	9	1
7562	6.26	0.10	0.09	3	2
7564	4.23	1.82	0.96	2	1
7565	4.96	-0.12	-0.68	3	1
7569	5.78	0.53	0.21	2	1
7574	6.22	0.01	-0.92	3	1
7578	6.18	1.02	.	6	2
7579	5.75	0.22	0.17	3	2
7580	6.53	0.02	-0.11	3	2
7581	4.13	1.08	0.89	3	2
7582	3.82	0.89	0.52	3	1
7588	6.39	0.16	0.09	3	2
7589	5.62	-0.07	-0.97	5	1
7590	3.96	-0.03	-0.05	9	2
7592	4.58	-0.06	-0.13	2	1
7593	5.70	-0.08	-0.49	2	1
7594	6.48	-0.04	-0.27	2	1
7595	4.68	1.05	0.89	2	1
7597	4.70	0.75	0.32	3	1
7598	6.15	0.03	0.04	3	2
7602	3.72	0.86	0.48	9	1
7603	5.76	1.04	0.80	3	2
7604	4.50	1.46	1.57	3	1
7605	6.55	0.39	.	3	2
7612	5.31	1.22	1.29	3	2
7613	4.95	-0.09	-0.52	2	1
7615	3.93	1.03	0.89	4	1
7618	4.82	0.89	0.54	2	1
7619	4.92	0.12	0.06	3	1
7623	4.36	-0.15	-0.67	3	2
7627	6.14	1.64	.	6	2
7630	5.81	0.27	0.11	3	2
7631	5.66	0.49	.	6	2
7635	3.47	1.57	1.93	3	1
7636	6.17	1.13	0.89	3	2
7637	5.87	0.58	0.05	2	1
7639	6.29	0.11	.	3	2
7644	6.07	0.64	0.08	6	2
7648	5.91	1.52	1.89	3	2
7650	4.59	1.65	1.81	3	1
7652	4.77	1.41	1.68	6	2
7653	4.65	0.18	0.16	3	1
7658	6.45	0.50	.	3	2
7663	6.45	1.58	1.98	6	2
7665	3.56	0.76	0.45	6	2
7667	5.68	1.30	1.35	3	2
7669	5.52	1.06	0.86	3	2
7670	5.70	0.72	0.38	2	1
7672	5.80	0.61	0.09	2	1
7673	4.94	1.62	1.84	6	2
7674	6.26	0.53	.	3	2
7678	5.65	0.54	-0.46	5	1
7681	6.47	1.16	1.00	3	2
7685	4.50	1.31	1.50	3	1
7686	6.20	1.61	1.89	2	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
7689	5.33	0.85	0.54	2	1
7690	5.99	1.02	0.90	3	2
7691	6.37	0.06	.	3	2
7693	6.43	0.46	-0.02	3	2
7698	6.17	0.20	0.13	3	2
7703	5.32	0.87	.	6	2
7705	6.48	0.38	-0.04	2	1
7706	6.22	1.23	.	3	2
7707	6.09	0.31	.	3	2
7708	4.92	-0.12	-0.78	4	1
7709	6.49	-0.15	-0.92	3	2
7710	3.22	-0.07	-0.12	6	1
7711	5.53	0.08	0.13	2	1
7717	6.27	0.02	-0.01	3	2
7718	5.49	1.41	1.50	2	1
7719	5.92	-0.11	-0.43	9	1
7722	5.73	0.88	0.64	3	1
7724	4.95	0.09	0.01	3	1
7729	6.53	0.37	.	3	2
7730	4.83	0.09	0.16	2	1
7735	3.80	1.28	0.42	3	1
7736	4.99	0.12	0.00	3	1
7739	4.77	-0.18	-0.73	3	1
7740	4.30	0.11	0.08	5	1
7741	5.15	1.04	0.71	3	1
7744	4.52	1.26	1.12	4	1
7746	6.12	1.04	0.92	7	1
7747	4.26	1.08	0.80	2	1
7748	5.87	1.00	.	3	2
7749	6.13	0.46	0.01	3	2
7750	4.39	-0.05	-0.10	3	1
7751	3.98	1.52	1.03	3	1
7754	3.58	0.95	0.69	2	1
7763	4.82	0.42	-0.58	5	1
7766	6.27	0.55	.	6	2
7767	5.84	0.10	-0.78	9	1
7770	5.17	0.65	0.47	3	1
7772	6.63	1.55	1.83	3	2
7773	4.76	-0.04	-0.11	3	1
7776	3.08	0.79	0.27	5	1
7779	5.59	0.00	0.00	3	2
7781	5.76	0.12	0.03	6	1
7783	5.94	0.58	0.06	3	1
7784	6.23	0.06	0.03	6	1
7785	5.77	1.14	0.85	3	2
7787	5.64	0.20	0.10	3	2
7790	1.94	-0.20	-0.71	3	2
7794	5.31	0.96	0.77	3	2
7796	2.23	0.67	0.54	2	1
7801	5.85	1.10	.	3	2
7806	4.44	1.33	1.50	6	1
7808	6.25	0.97	.	6	2
7810	6.33	1.56	1.91	3	2
7812	5.91	1.71	2.02	3	2
7820	6.25	1.08	0.92	3	2

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
7822	4.81	0.37	0.05	2	1
7827	6.36	0.00	0.00	2	1
7829	6.74	0.22	0.04	2	1
7830	5.94	0.08	0.30	2	1
7834	4.02	0.40	0.29	3	1
7838	6.11	1.29	1.41	3	2
7841	6.40	1.12	1.07	2	1
7844	4.95	-0.09	-0.63	3	1
7845	5.65	0.69	.	3	2
7847	6.18	1.01	0.74	5	1
7848	4.76	0.28	0.05	6	2
7850	4.22	0.20	0.16	3	1
7852	4.04	-0.12	-0.48	2	1
7857	6.56	0.08	0.05	3	2
7863	6.00	0.44	0.11	9	2
7864	6.03	0.62	0.19	6	2
7865	6.19	0.20	.	3	2
7866	4.63	1.61	0.76	2	1
7869	3.11	1.00	0.79	6	2
7871	4.69	0.11	0.11	2	1
7875	5.12	0.53	.	3	2
7881	5.15	-0.06	-0.28	3	2
7882	3.63	0.44	0.08	3	1
7884	4.33	0.96	0.68	3	1
7891	4.82	-0.02	-0.07	3	1
7896	5.02	0.74	0.19	2	1
7898	6.37	0.72	.	6	2
7906	3.77	-0.06	-0.21	9	1
7909	5.76	1.53	.	3	2
7913	3.43	0.16	0.12	3	2
7915	6.29	1.08	.	3	2
7920	4.51	0.27	0.09	6	2
7924	1.25	0.09	-0.23	9	1
7928	4.44	0.32	0.10	3	1
7934	5.41	1.12	1.09	3	2
7935	6.49	0.39	.	3	2
7936	4.13	0.43	0.04	3	1
7939	4.91	1.19	1.18	4	1
7940	6.32	0.33	-0.48	3	1
7942	4.23	1.06	0.88	3	1
7943	5.10	0.35	.	3	2
7947	3.91	0.85	0.51	3	1
7949	2.46	1.03	0.87	8	1
7950	3.77	0.00	0.02	9	1
7951	4.44	1.67	1.93	3	1
7952	4.89	1.52	1.87	6	2
7953	5.58	-0.02	-0.09	3	2
7955	4.52	0.54	0.10	2	1
7957	3.43	0.92	0.61	5	1
7959	5.65	0.18	.	3	2
7963	4.54	-0.11	-0.50	3	1
7965	4.89	1.00	0.73	6	2
7974	6.33	0.02	-0.02	3	2
7977	4.86	0.42	-0.45	3	1
7980	4.12	1.63	1.91	6	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
7982	5.99	0.46	0.03	3	2
7985	5.55	-0.08	-0.27	3	2
7986	3.65	1.25	1.23	6	2
7987	5.35	1.32	.	3	2
7990	4.73	0.32	0.10	3	1
7993	6.45	0.07	-0.77	3	1
7995	4.61	0.82	0.47	2	1
8001	4.77	-0.14	-0.58	2	1
8006	6.55	0.29	0.05	3	2
8010	6.05	0.82	0.49	3	2
8013	5.69	0.50	.	3	2
8014	6.57	-0.10	-0.29	3	2
8017	6.05	1.22	1.36	3	2
8018	5.87	0.18	.	3	2
8019	6.37	0.10	0.11	3	2
8020	5.67	0.47	-0.33	4	1
8021	5.15	0.49	0.13	3	2
8023	5.96	0.05	-0.85	3	1
8024	6.01	0.23	.	3	2
8028	3.94	0.02	0.01	3	1
8031	6.11	0.39	.	3	2
8034	5.23	0.46	0.02	3	2
8038	5.99	0.26	0.09	3	2
8039	4.67	0.89	0.54	6	2
8042	6.64	0.68	.	3	2
8046	5.94	1.11	.	3	2
8047	4.75	-0.04	-0.95	4	1
8052	6.58	1.23	1.18	3	2
8054	6.50	-0.10	-0.49	3	2
8056	6.21	0.48	0.02	3	2
8060	4.84	0.18	0.06	3	1
8061	5.68	0.59	0.10	6	2
8066	5.60	1.65	2.01	3	2
8068	6.33	0.97	0.61	3	2
8073	5.76	1.18	1.15	3	2
8075	4.07	-0.01	0.01	3	1
8077	5.94	0.54	0.06	3	2
8079	3.70	1.65	1.80	2	1
8080	4.49	1.60	1.91	3	1
8081	6.20	1.08	1.03	3	2
8085	5.22	1.17	1.11	9	1
8086	6.03	1.37	1.23	9	1
8089	4.56	1.56	1.73	3	1
8090	6.15	1.66	1.97	3	2
8092	5.02	1.58	1.55	3	2
8093	4.52	0.94	0.66	2	1
8095	6.45	0.37	0.06	3	2
8096	6.27	1.16	1.21	3	2
8097	4.68	0.26	0.08	4	1
8098	6.07	0.02	0.04	3	2
8100	5.83	0.45	.	6	2
8110	5.42	1.42	.	3	2
8111	6.63	0.03	0.00	3	2
8114	5.75	0.19	.	3	2
8115	3.20	0.99	0.76	5	1

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8117	6.21	1.14	.	3	2
8119	5.63	0.11	-0.77	3	1
8121	6.38	1.61	1.92	3	2
8123	4.49	0.50	-0.01	5	1
8125	6.31	-0.07	-0.22	3	2
8129	6.45	1.40	1.66	3	2
8130	3.73	0.40	0.02	2	1
8131	3.90	0.52	0.30	2	1
8135	4.71	0.06	0.02	6	2
8140	4.39	0.19	0.12	6	2
8141	5.82	-0.13	-0.51	3	2
8142	6.40	0.97	.	6	2
8143	4.23	0.13	-0.39	2	1
8146	4.42	-0.10	-0.83	3	1
8148	6.56	0.73	.	9	2
8151	4.82	0.02	-0.07	6	2
8152	6.38	1.32	.	3	2
8159	6.09	1.26	1.41	3	2
8160	5.87	0.92	0.64	3	2
8162	2.45	0.22	0.11	5	1
8163	5.82	1.66	1.97	3	2
8165	5.57	1.05	0.91	2	1
8167	4.27	0.91	0.56	2	1
8170	6.40	0.53	-0.01	6	1
8173	4.09	1.11	1.05	6	1
8175	5.99	1.54	1.88	3	2
8176	6.38	0.13	-0.36	3	2
8177	6.31	0.20	.	3	2
8178	5.17	0.05	0.07	3	2
8180	5.76	-0.04	.	3	2
8181	4.22	0.48	-0.13	3	2
8187	5.49	0.29	.	3	2
8191	6.34	0.47	0.13	2	1
8192	6.36	0.33	0.13	3	2
8195	5.70	0.20	.	3	2
8200	5.63	1.19	.	3	2
8201	6.47	0.04	0.05	3	2
8203	6.46	0.16	0.05	3	2
8204	3.74	1.00	0.60	3	1
8205	6.13	0.44	0.01	3	2
8207	5.78	1.44	1.74	6	1
8213	4.51	0.91	0.60	4	1
8219	6.40	1.64	1.90	3	2
8225	4.57	1.62	1.93	3	1
8229	5.29	1.10	.	3	2
8232	2.87	0.84	0.58	4	1
8234	6.18	0.46	0.02	3	2
8235	6.43	0.20	.	3	2
8236	5.57	1.04	.	3	2
8238	3.23	-0.22	-0.95	4	1
8249	6.20	0.03	0.05	3	2
8251	5.77	1.11	1.04	3	2
8252	4.02	0.89	0.56	6	1
8253	5.73	0.22	.	3	2
8254	3.76	1.00	0.89	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8255	4.91	1.08	1.01	5	1
8256	6.11	0.22	.	3	2
8260	4.72	-0.16	-0.58	3	1
8262	5.38	1.59	1.24	2	1
8263	6.25	0.06	0.05	6	1
8264	4.69	0.19	0.13	2	1
8265	6.17	0.03	0.02	2	1
8270	5.67	0.25	0.08	3	2
8271	6.33	1.06	.	3	2
8278	3.67	0.32	0.22	2	1
8279	4.73	0.30	-0.54	4	1
8280	5.29	0.75	0.47	3	2
8281	5.62	0.21	-0.74	2	1
8286	6.01	-0.10	-0.35	3	2
8287	5.67	1.44	1.67	3	2
8288	4.73	0.88	0.51	3	1
8289	5.29	1.64	1.94	3	2
8291	6.11	0.07	0.08	6	1
8293	6.23	0.27	.	3	2
8294	6.57	0.28	0.13	3	2
8297	6.05	2.52	5.30	2	1
8299	6.30	1.12	.	3	2
8301	4.67	-0.12	-0.69	3	1
8303	6.45	1.15	.	3	2
8305	4.34	-0.05	-0.11	6	2
8308	2.39	1.52	1.70	3	1
8309	4.51	0.49	0.01	3	1
8311	5.09	1.11	0.94	3	2
8313	4.31	1.18	0.96	2	1
8315	4.12	0.44	0.03	3	1
8316	4.17	2.26	2.45	3	1
8317	4.57	1.10	1.09	3	1
8318	6.01	1.66	1.86	3	2
8322	2.83	0.29	0.10	4	1
8323	5.59	0.60	.	3	2
8325	5.28	1.21	1.25	2	1
8326	5.01	0.04	.	3	2
8327	5.94	0.31	-0.64	5	1
8328	5.64	0.00	-0.02	3	2
8331	5.62	1.02	0.83	3	2
8332	6.17	0.22	0.05	3	2
8333	5.53	1.37	1.63	3	2
8334	4.29	0.52	0.13	7	1
8335	4.24	-0.12	-0.72	3	1
8351	5.08	0.37	.	3	2
8352	5.90	0.39	.	6	2
8353	3.01	-0.12	-0.37	6	2
8359	6.15	0.80	0.26	3	2
8360	5.71	1.18	1.27	3	2
8363	6.20	0.48	0.07	3	2
8365	6.41	0.93	.	6	2
8366	5.46	0.08	.	3	2
8368	4.40	0.28	0.10	6	2
8369	6.12	0.46	.	3	2
8370	6.41	0.22	0.08	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8371	5.80	0.72	-0.02	6	1
8376	6.33	0.37	-0.03	3	2
8379	5.50	1.00	.	3	2
8380	5.95	0.39	0.11	3	2
8381	6.01	-0.10	.	3	2
8382	6.22	1.00	0.87	3	2
8383	4.90	1.75	0.38	3	1
8385	6.00	-0.12	-0.57	3	2
8386	5.42	-0.10	.	3	2
8387	4.69	1.06	0.99	6	2
8390	5.58	1.28	1.40	3	2
8401	5.54	0.96	0.73	3	2
8402	4.69	-0.05	-0.42	3	1
8405	6.47	1.63	.	3	2
8406	5.56	0.07	-0.86	3	1
8407	5.60	-0.02	-0.10	6	1
8410	5.31	0.23	0.15	6	1
8411	4.46	1.37	1.66	6	2
8413	4.84	1.44	1.80	5	1
8414	2.93	0.97	0.76	4	1
8417	4.29	0.34	0.09	3	1
8418	4.25	-0.07	-0.27	2	1
8420	6.55	1.18	1.30	3	2
8421	6.12	1.60	1.77	4	1
8423	6.98	0.52	-0.02	2	1
8425	1.74	-0.13	-0.47	3	2
8427	6.27	-0.06	-0.71	5	1
8428	5.11	0.08	-0.84	6	1
8430	3.76	0.44	-0.04	9	1
8431	4.50	0.05	0.05	6	2
8432	6.15	1.00	0.82	3	2
8438	5.78	-0.10	-0.41	2	1
8440	6.43	1.39	.	3	2
8443	6.14	0.43	0.24	3	1
8447	4.92	0.48	.	3	2
8450	3.55	0.07	0.11	2	1
8451	6.27	-0.01	-0.07	3	2
8453	6.01	0.93	0.83	3	2
8454	4.29	0.46	0.18	5	1
8457	6.09	0.50	.	3	2
8461	5.95	0.95	0.73	6	1
8464	6.17	0.17	.	3	2
8465	3.35	1.55	1.71	6	1
8467	6.39	0.50	0.06	3	2
8468	4.79	0.92	0.61	3	1
8469	5.05	0.24	-0.74	9	1
8471	5.51	0.31	0.12	3	2
8473	6.37	-0.06	-0.18	6	1
8474	5.50	0.38	-0.04	2	1
8477	6.23	0.54	.	3	2
8481	5.10	1.47	1.09	3	2
8484	6.09	1.02	0.81	3	2
8485	4.49	1.39	1.44	3	1
8486	4.79	0.80	0.47	6	2
8488	5.10	0.92	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8491	6.21	0.02	-0.04	3	2
8492	6.15	1.11	.	6	2
8494	4.19	0.28	0.04	7	1
8495	6.15	0.19	0.09	3	2
8498	4.13	1.46	1.63	3	1
8499	4.15	0.99	0.80	4	1
8500	5.79	1.16	1.14	3	2
8501	5.37	0.60	.	3	2
8502	2.86	1.39	1.54	6	2
8504	5.75	0.88	0.51	3	2
8505	5.77	1.02	0.88	3	2
8507	6.39	0.44	0.00	3	2
8510	6.17	0.28	0.11	2	1
8512	5.37	-0.06	-0.37	3	2
8513	5.37	-0.02	-0.47	3	2
8514	6.17	0.44	-0.03	3	2
8515	5.29	0.65	-0.06	6	2
8518	3.84	-0.06	-0.13	3	1
8520	4.99	-0.10	-0.81	2	1
8521	6.62	2.01	.	4	2
8522	4.81	0.00	-0.19	3	1
8523	4.56	-0.10	-0.51	2	1
8524	5.62	0.36	0.01	3	2
8526	6.04	0.64	0.14	3	2
8527	5.78	0.38	0.03	3	2
8530	5.93	1.00	0.69	3	2
8531	5.32	0.67	.	6	2
8533	5.78	-0.04	-0.11	3	2
8538	4.44	1.02	0.77	3	1
8539	4.64	-0.04	-0.97	3	1
8540	4.47	-0.03	-0.07	3	2
8541	4.58	0.09	-0.34	2	1
8546	5.27	-0.03	-0.11	5	1
8547	5.55	0.20	0.08	3	2
8548	5.75	0.52	0.04	3	2
8549	6.45	-0.13	-0.75	5	1
8551	4.80	1.06	0.88	5	1
8552	5.47	0.95	.	3	2
8553	6.14	-0.14	-0.77	5	1
8556	3.97	1.03	0.80	3	2
8558	3.66	0.38	-0.01	2	1
8560	4.11	1.57	1.70	3	2
8561	5.46	0.37	-0.59	3	1
8562	5.58	1.55	1.90	3	2
8563	5.95	0.33	.	3	2
8566	5.48	0.38	0.09	3	2
8572	4.37	1.68	1.10	4	1
8573	4.81	-0.08	-0.14	3	1
8576	4.25	0.01	0.02	3	2
8577	6.15	1.38	1.35	3	2
8579	4.51	-0.09	-0.74	8	1
8580	6.16	1.08	1.00	3	2
8581	6.14	0.56	0.06	3	2
8585	3.77	0.01	0.00	3	1
8590	5.89	1.00	0.73	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8592	5.21	0.44	.	3	2
8593	6.23	0.20	.	3	2
8597	4.00	-0.10	-0.28	2	1
8600	6.28	0.12	.	3	2
8602	5.86	0.06	.	3	2
8603	5.73	-0.15	-0.90	6	1
8606	6.29	-0.05	-0.54	4	1
8610	5.03	1.14	1.16	6	2
8611	6.65	0.35	.	3	2
8612	6.23	0.78	0.49	3	2
8613	4.63	0.24	0.10	3	1
8614	6.47	1.04	.	3	2
8616	5.66	0.05	.	3	2
8619	6.31	1.01	.	6	2
8620	5.97	1.46	.	3	2
8622	4.88	-0.20	-1.04	9	1
8623	5.87	1.30	.	3	2
8628	4.16	-0.12	-0.34	3	1
8629	6.31	0.52	0.00	3	2
8630	4.15	0.20	0.11	3	2
8632	4.46	1.33	1.36	3	1
8634	3.40	-0.09	-0.24	3	1
8635	5.98	0.58	0.07	3	2
8636	2.11	1.62	1.60	6	2
8639	6.07	0.98	0.68	3	2
8640	5.25	-0.14	-0.87	5	1
8641	4.79	-0.01	-0.01	3	1
8644	4.85	1.03	0.80	3	2
8645	6.45	0.17	0.12	3	2
8647	6.41	-0.04	-0.11	3	2
8649	4.69	1.36	1.55	6	1
8650	2.95	0.86	0.57	5	1
8651	6.43	-0.09	-0.81	5	1
8655	4.85	1.18	1.17	6	2
8657	5.51	1.32	1.42	3	2
8662	6.56	0.30	0.11	3	2
8663	5.35	-0.15	-0.50	3	2
8664	6.73	0.11	0.10	3	2
8665	4.19	0.50	-0.03	6	1
8667	3.94	1.08	0.91	3	1
8668	6.28	1.16	.	3	2
8669	6.37	1.06	.	6	2
8671	6.71	0.48	.	3	2
8672	6.34	0.07	0.10	3	2
8675	3.49	0.08	0.10	6	2
8679	3.98	1.59	1.94	3	1
8680	6.33	0.31	.	3	2
8681	6.54	0.29	0.05	3	2
8684	3.48	0.94	0.68	3	1
8690	5.91	0.08	-0.51	4	1
8694	3.53	1.05	0.90	3	1
8695	4.46	-0.04	-0.14	6	2
8697	5.16	0.48	-0.01	3	2
8698	3.79	1.65	1.76	3	1
8700	6.04	0.62	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8701	6.05	0.66	0.24	3	2
8702	4.74	1.26	1.35	3	1
8704	5.81	-0.08	-0.32	6	1
8709	3.28	0.05	0.08	9	1
8710	6.19	1.28	1.41	3	2
8711	5.56	1.14	1.09	2	1
8715	6.11	0.20	0.15	3	2
8716	5.72	0.88	0.60	3	2
8717	4.90	0.00	0.00	5	1
8720	4.21	0.97	0.69	6	2
8721	6.49	1.10	1.02	3	1
8725	5.58	-0.14	-0.83	4	1
8726	4.94	1.77	1.95	3	1
8727	6.31	0.94	0.72	3	2
8728	1.16	0.09	0.06	7	1
8729	5.50	0.67	0.20	3	1
8730	6.28	1.12	1.08	3	2
8732	6.13	0.58	.	3	2
8733	6.17	-0.15	-0.80	4	1
8734	6.16	0.74	0.43	3	2
8735	6.37	0.35	0.02	3	2
8737	6.43	0.64	0.16	3	2
8738	6.33	0.06	0.02	3	2
8740	5.51	0.25	.	3	2
8742	5.43	0.98	0.83	3	2
8747	4.12	0.98	0.70	6	2
8748	4.72	1.43	1.69	1	1
8749	5.68	1.42	.	3	2
8750	6.21	0.89	0.60	3	2
8751	5.83	1.34	1.57	3	2
8752	5.13	1.55	1.33	3	1
8757	6.21	1.41	1.77	3	2
8758	6.54	-0.11	-0.64	4	1
8759	5.94	1.00	0.75	3	2
8762	3.62	-0.09	-0.53	3	1
8763	6.15	1.58	1.90	3	2
8768	6.38	0.00	-0.58	4	1
8769	5.52	0.36	0.12	3	2
8772	6.68	0.58	0.06	6	2
8773	4.52	-0.12	-0.50	2	1
8775	2.42	1.67	1.96	5	1
8776	6.41	0.39	0.03	3	2
8780	4.66	1.06	0.88	2	1
8781	2.48	-0.04	-0.06	9	1
8782	5.43	0.30	0.07	3	2
8784	6.44	0.83	0.55	2	1
8785	6.39	0.94	0.72	3	2
8786	6.12	0.14	0.10	3	2
8787	4.28	0.42	0.16	6	2
8789	4.48	0.90	0.58	2	1
8790	5.61	0.01	.	6	2
8792	5.83	0.48	.	3	2
8794	6.15	1.42	1.68	3	2
8795	4.51	1.58	1.88	4	1
8796	4.77	1.35	1.15	2	1

TABLE 9 UBV PHOTOMETRY OF BRIGHT STARS

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8797	4.86	-0.03	-0.87	5	1
8800	6.66	-0.05	-0.68	4	1
8804	5.33	1.41	1.72	3	1
8807	5.40	0.91	0.56	3	2
8808	6.25	-0.01	-0.60	1	1
8809	6.47	0.95	0.71	3	2
8810	6.41	1.50	1.84	3	2
8812	3.64	1.23	1.22	3	1
8814	5.81	0.48	.	3	2
8815	5.11	1.47	1.00	3	2
8817	4.68	0.64	0.37	3	1
8819	4.42	0.82	0.46	2	1
8820	3.90	1.02	0.86	6	2
8821	5.39	-0.08	-0.29	3	2
8823	6.51	0.27	.	3	2
8825	5.95	0.44	-0.05	2	1
8826	5.16	0.13	0.08	3	2
8829	6.12	0.78	.	6	2
8830	4.53	0.30	0.04	3	1
8832	5.57	1.00	0.88	9	1
8834	4.22	1.55	1.88	3	1
8835	5.77	1.18	.	3	2
8840	5.55	0.06	0.06	6	2
8841	4.25	1.11	1.01	3	1
8843	5.66	0.51	.	6	2
8847	6.47	1.08	.	3	2
8848	3.99	0.40	-0.02	6	2
8849	6.33	0.91	0.66	3	2
8850	5.06	1.60	1.60	6	2
8852	3.69	0.91	0.57	5	1
8855	6.13	1.35	1.58	3	2
8858	4.40	-0.14	-0.55	3	1
8859	5.54	0.44	.	3	2
8860	4.86	1.67	1.98	2	1
8862	5.49	1.27	1.43	3	2
8863	4.41	1.13	1.06	6	2
8865	4.98	-0.02	.	3	2
8866	5.08	0.80	.	3	2
8868	5.55	0.39	0.00	9	2
8871	6.37	1.30	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8872	4.76	0.84	0.49	2	1
8875	6.32	1.12	1.05	2	1
8878	5.05	1.20	1.12	3	2
8879	6.17	1.07	0.97	3	2
8880	4.60	0.17	0.10	3	1
8883	5.65	0.82	.	6	2
8889	6.09	1.60	.	3	2
8890	5.20	0.20	.	6	2
8892	3.98	1.10	0.95	3	1
8896	6.10	1.46	.	3	2
8897	6.31	1.61	1.95	3	2
8900	6.19	1.02	.	3	2
8905	4.41	0.61	0.14	5	1
8906	4.40	1.47	1.80	7	1
8908	6.45	1.47	1.77	3	2
8909	5.63	0.98	.	3	2
8910	6.20	-0.08	.	3	2
8911	4.94	0.04	-0.03	6	1
8912	6.25	1.02	0.80	3	2
8914	6.32	1.20	.	3	2
8916	4.30	1.08	1.02	3	1
8919	5.68	-0.17	.	6	2
8920	6.43	1.18	.	3	2
8921	6.18	1.44	1.70	3	2
8923	4.56	0.94	0.74	2	1
8924	6.26	1.08	1.14	2	1
8925	6.17	1.46	1.71	1	1
8926	4.94	-0.12	-0.64	3	1
8928	6.39	1.26	1.29	3	2
8929	6.02	1.02	.	3	2
8930	5.22	1.02	0.86	2	1
8931	6.49	0.54	-0.01	3	2
8934	6.38	1.18	1.10	3	2
8935	5.81	0.68	0.31	3	2
8937	4.37	-0.09	-0.36	6	2
8938	5.58	0.23	0.13	5	1
8939	4.72	0.02	0.01	3	1
8944	5.87	0.30	0.16	3	2
8947	5.59	0.10	0.08	6	1
8949	4.71	0.08	0.07	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8951	6.39	0.88	0.57	3	2
8954	5.67	0.44	-0.08	3	2
8957	6.00	0.90	0.65	3	2
8959	4.74	0.08	0.09	6	2
8961	3.82	1.02	0.70	5	1
8965	4.29	-0.11	-0.29	3	1
8969	4.13	0.51	0.01	9	1
8970	5.97	0.20	0.13	3	2
8974	3.21	1.03	0.94	8	1
8975	5.31	0.97	.	6	2
8976	4.14	-0.08	-0.25	4	1
8978	6.60	1.57	.	6	2
8979	5.89	1.00	.	6	2
8982	4.84	0.81	0.49	2	1
8983	5.89	0.10	0.08	3	2
8984	4.51	0.21	0.07	6	1
8988	4.51	-0.04	-0.13	3	1
8991	5.06	1.68	2.03	3	2
8993	6.09	0.98	.	6	2
8994	6.07	0.91	0.62	3	2
8995	5.75	1.11	1.06	3	2
8996	5.72	1.40	1.63	3	2
8997	4.93	0.96	0.63	2	1
8999	6.17	0.50	.	3	2
9001	6.31	0.20	.	3	2
9002	5.29	0.28	.	3	2
9004	5.05	2.61	3.50	2	1
9006	5.18	-0.19	.	3	2
9007	6.89	0.46	0.06	3	2
9012	5.49	0.94	0.70	6	2
9014	6.07	1.45	1.71	9	2
9015	6.46	0.44	-0.02	3	2
9016	4.57	0.00	-0.02	2	1
9018	5.42	0.66	-0.02	3	1
9022	5.77	0.16	0.11	3	2
9023	6.59	1.48	.	3	2
9026	6.42	0.12	.	6	2
9030	5.79	1.66	1.73	3	2
9031	5.17	-0.13	.	3	2
9032	5.11	0.92	0.60	6	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
9033	5.54	1.53	1.85	3	2
9038	6.40	0.98	0.71	3	1
9040	5.75	1.17	1.15	3	2
9041	5.93	1.07	0.96	3	2
9042	6.28	-0.01	-0.01	3	2
9044	6.35	0.20	.	3	2
9045	4.59	1.26	1.15	3	1
9046	6.03	0.57	.	6	2
9047	5.61	1.59	1.50	3	2
9048	6.21	-0.07	-0.19	3	2
9049	6.09	-0.08	.	3	2
9050	6.83	-0.08	.	3	2
9052	6.00	0.22	-0.72	3	1
9060	5.97	0.11	.	3	2
9061	5.73	1.05	0.92	3	2
9062	5.00	0.06	0.08	3	2
9064	4.66	1.59	1.67	5	1
9065	6.26	1.08	1.03	3	2
9067	4.86	0.93	0.70	6	2
9071	4.88	-0.06	-0.83	4	1
9072	4.01	0.42	0.07	3	1
9076	4.50	-0.08	-0.28	3	2
9077	6.29	0.76	.	3	2
9081	5.71	0.91	.	6	2
9084	4.78	1.27	1.41	6	2
9087	5.11	-0.12	-0.51	3	2
9088	5.75	0.67	0.05	9	1
9089	4.41	1.63	1.84	3	1
9091	5.00	-0.16	-0.55	5	2
9092	6.32	0.18	0.14	3	2
9093	5.69	0.31	0.01	3	2
9094	5.86	1.09	0.91	1	1
9095	6.25	0.53	0.08	3	2
9097	6.24	0.33	-0.54	3	1
9098	4.56	-0.04	-0.12	5	1
9102	6.40	0.00	.	3	2
9106	7.31	0.44	0.01	3	2
9107	6.12	0.62	0.09	2	1
9108	5.59	-0.12	-0.42	3	2

TABLE 10 SUPPLEMENTARY CAPE UBV PHOTOMETRY

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3	4.61	1.05	0.89	9	2
48	4.41	1.66	2.02	3	2
74	3.54	1.22	1.26	9	2
188	2.04	1.03	0.87	9	2
194	4.76	1.03	0.84	9	2
222	5.73	0.89	0.62	3	2
224	4.43	1.50	1.85	3	2
235	5.16	0.51	.	6	2
248	4.76	1.57	1.93	6	2
280	4.31	-0.16	-0.56	6	2
294	4.27	0.96	0.67	3	2
296	5.40	1.12	1.04	3	2
330	5.51	0.33	-0.00	3	2
334	3.45	1.16	1.19	9	2
353	5.91	1.40	1.70	3	2
378	5.14	0.07	0.10	3	2
402	3.61	1.07	0.94	9	2
434	4.82	1.37	1.60	3	2
489	4.44	1.37	1.58	6	2
509	3.49	0.74	0.22	9	2
510	4.27	0.96	0.73	3	2
531	4.65	0.33	0.06	9	2
539	3.73	1.14	1.07	9	2
549	4.61	0.95	0.72	6	2
585	4.00	1.58	1.94	6	2
595	3.83	0.01	-0.10	6	2
612	4.69	-0.16	-0.51	6	2
649	4.37	0.88	0.60	3	2
672	5.59	0.60	0.11	3	2
708	4.88	-0.03	-0.08	9	2
710	5.86	0.16	.	3	2
718	4.27	-0.06	-0.11	6	2
740	4.75	0.45	-0.03	9	2
749	4.91	-0.05	-0.14	3	2
753	5.80	0.99	0.87	3	2
754	4.87	0.88	0.52	3	2
779	4.07	-0.22	-0.85	6	2
781	4.83	0.44	.	3	2
804	3.47	0.09	0.09	6	2
811	4.24	-0.13	-0.44	9	2
813	4.27	0.30	0.09	6	2
818	4.47	0.48	0.01	9	2
850	4.77	0.91	0.65	6	2
857	6.04	0.87	.	6	2
874	3.90	1.10	1.00	9	2
875	5.16	0.08	0.07	9	2
896	4.71	-0.11	-0.45	3	2
911	2.53	1.64	1.95	6	2
919	4.07	0.16	0.10	9	2
963	3.86	0.52	-0.00	9	2
984	4.80	0.23	0.09	9	2
992	5.41	1.04	0.80	3	2
996	4.85	0.68	0.21	6	2
1003	3.73	1.61	.	3	2
1016	5.50	0.88	.	3	2
1030	3.61	0.89	0.60	6	2
1038	3.73	-0.09	-0.33	3	2
1070	4.73	-0.09	-0.29	9	2
1084	3.72	0.89	0.61	9	2
1088	4.26	-0.10	-0.36	9	2
1101	4.29	0.57	0.06	9	2
1136	3.53	0.93	0.71	9	2
1162	4.43	1.64	2.00	3	2
1173	4.22	0.43	-0.01	6	2
1211	4.48	0.68	0.40	6	2
1213	4.64	-0.14	-0.47	6	2
1231	2.97	1.59	1.95	6	2
1240	4.64	-0.12	-0.42	6	2
1249	5.38	0.52	-0.00	6	2
1251	3.91	0.03	0.08	9	2
1254	5.45	0.38	-0.02	3	2
1292	5.71	0.34	0.04	3	2
1298	4.05	0.32	0.12	6	2
1309	5.28	0.36	0.01	3	2
1311	4.83	0.82	0.48	3	2
1318	4.89	1.16	.	3	2
1320	4.30	-0.04	-0.56	3	2
1325	4.43	0.82	0.46	3	2
1381	5.12	0.07	0.10	3	2
1383	5.19	0.07	0.08	6	2
1436	6.37	0.43	0.01	3	2
1437	4.93	1.33	1.43	9	2
1448	5.69	0.05	0.08	3	2
1452	5.25	1.48	1.77	3	2
1453	4.51	0.98	0.71	6	2
1458	4.25	0.17	0.11	3	2
1463	3.91	-0.20	-0.88	6	2
1480	5.39	0.26	0.15	3	2
1481	3.87	1.10	0.99	9	2
1496	4.35	1.60	.	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
1520	4.03	-0.14	-0.61	9	2
1543	3.19	0.46	-0.02	6	2
1544	4.36	0.02	-0.03	3	2
1552	3.69	-0.16	-0.82	9	2
1560	4.38	0.25	0.14	9	2
1567	3.72	-0.18	-0.82	6	2
1601	4.47	1.40	1.52	6	2
1611	4.79	0.26	0.14	9	2
1614	6.23	1.06	1.08	9	2
1617	4.81	-0.19	-0.72	6	2
1621	4.90	-0.05	-0.15	6	2
1654	3.19	1.47	1.80	6	2
1657	5.11	-0.07	-0.16	3	2
1664	5.35	0.33	0.10	3	2
1666	2.80	0.13	0.12	9	2
1672	5.43	0.24	0.16	3	2
1679	4.26	-0.19	-0.90	6	2
1690	6.66	-0.08	-0.31	3	2
1696	4.46	-0.11	-0.40	9	2
1698	4.47	1.19	1.17	9	2
1702	3.29	-0.11	-0.39	9	2
1705	4.36	-0.09	-0.38	9	2
1724	6.42	-0.02	0.01	3	2
1735	3.60	-0.11	-0.48	9	2
1748	6.34	-0.10	-0.73	3	2
1756	4.29	-0.26	-1.02	9	2
1761	6.52	-0.10	-0.52	3	2
1762	4.71	-0.04	-0.12	6	2
1763	5.79	-0.11	-0.87	3	2
1764	5.67	-0.12	-0.64	3	2
1765	4.73	-0.17	-0.79	6	2
1770	4.95	-0.15	-0.84	9	2
1781	5.71	-0.21	-0.87	6	2
1784	4.14	0.97	0.68	9	2
1786	6.31	-0.14	-0.61	3	2
1788	3.38	-0.18	-0.91	6	2
1789	4.95	-0.21	-0.90	6	2
1790	1.65	-0.23	-0.86	6	2
1803	6.15	-0.17	-0.73	3	2
1806	6.23	-0.07	-0.21	3	2
1811	4.60	-0.21	-0.91	6	2
1820	6.39	-0.17	-0.74	3	2
1829	2.84	0.82	0.42	6	2
1830	5.81	1.14	1.06	3	2
1833	5.79	-0.19	-0.84	3	2
1839	4.22	-0.14	-0.54	6	2
1840	6.33	-0.20	-0.81	3	2
1842	5.47	-0.18	-0.82	3	2
1848	6.23	-0.17	-0.72	3	2
1852	2.25	-0.22	-1.04	3	2
1855	4.61	-0.26	-1.06	2	2
1861	5.35	-0.19	-0.92	9	2
1863	6.38	-0.08	-0.56	3	2
1865	2.60	0.21	0.19	6	2
1871	6.59	-0.19	-0.77	3	2
1872	5.35	0.04	0.05	3	2
1873	6.21	-0.16	-0.79	3	2
1876	4.41	-0.16	-0.95	3	2
1879	3.40	-0.17	-1.02	6	2
1886	5.67	-0.21	-0.90	3	2
1887	4.80	-0.24	-0.99	3	2
1890	6.56	-0.13	-0.76	6	2
1891	6.25	-0.13	-0.67	3	2
1892	4.59	-0.20	-0.91	6	2
1898	6.31	-0.13	-0.67	3	2
1899	2.77	-0.24	-1.07	9	2
1900	6.39	-0.12	-0.61	3	2
1901	5.26	0.25	0.13	3	2
1903	1.70	-0.16	-1.04	3	2
1906	6.55	-0.20	-0.79	3	2
1907	4.09	0.95	0.59	3	2
1911	5.71	-0.23	-0.90	3	2
1918	6.04	-0.23	-0.91	6	2
1931	3.76	-0.23	-1.02	6	2
1934	4.51	-0.08	-0.82	3	2
1935	5.27	0.50	.	3	2
1937	4.79	0.14	0.11	6	2
1948	1.78	-0.20	-1.06	6	2
1963	4.92	1.16	1.06	3	2
1982	6.18	0.96	.	6	2
1983	3.59	0.50	-0.03	6	2
1998	3.55	0.11	0.09	2	2
2004	2.08	-0.16	-1.03	6	2
2035	3.78	1.00	0.65	6	2
2061	0.81	1.86	1.82	3	2
2085	3.71	0.33	0.01	9	2
2113	4.53	1.23	1.20	6	2
2124	4.13	0.16	0.11	3	2
2128	4.96	-0.11	-0.60	9	2
2155	4.67	0.04	0.05	9	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
2227	3.99	1.33	1.40	6	2
2233	5.63	0.49	-0.00	6	2
2244	5.01	-0.08	-0.25	9	2
2282	3.03	-0.19	-0.69	6	2
2294	1.99	-0.24	-0.98	9	2
2298	4.31	0.21	0.11	6	2
2344	5.06	-0.18	-0.75	9	2
2356	3.77	-0.15	-0.74	6	2
2382	5.88	1.00	0.77	3	2
2385	4.50	0.02	-0.28	3	2
2387	4.34	-0.24	-0.98	6	2
2414	4.55	-0.03	-0.06	6	2
2422	6.05	0.06	-0.88	6	2
2429	3.96	1.07	1.01	9	2
2432	6.15	0.15	-0.75	9	2
2443	4.44	1.15	1.03	9	2
2450	4.83	1.50	1.68	9	2
2456	4.66	-0.25	-1.06	6	2
2467	6.37	-0.04	-0.94	6	2
2479	5.88	-0.02	-0.90	3	2
2506	4.48	1.12	1.03	9	2
2509	6.05	-0.17	.	3	2
2538	3.97	-0.23	-0.90	3	2
2571	4.83	-0.22	-0.94	3	2
2574	4.06	1.44	1.70	9	2
2580	3.81	1.74	.	3	2
2590	4.66	0.37	0.03	6	2
25 6	4.39	-0.06	-0.71	6	2
2618	1.51	-0.21	-0.92	3	2
2646	3.49	1.76	.	3	2
2648	4.97	-0.20	-0.93	3	2
2653	3.05	-0.08	-0.82	3	2
2657	4.11	-0.12	-0.49	2	2
2679	6.49	-0.10	-0.99	6	2
2693	1.83	0.68	0.47	3	2
2694	6.22	0.03	-0.90	9	2
2701	4.91	1.02	0.79	9	2
2707	5.44	0.29	0.13	3	2
2714	4.15	-0.01	-0.01	6	2
2739	6.01	-0.17	.	3	2
2745	4.43	-0.10	-0.90	3	2
2749	4.01	-0.17	-0.67	6	2
2764	4.50	1.15	0.54	6	2
2766	4.66	1.60	1.87	6	2
2782	4.40	-0.15	.	3	2
2806	6.42	-0.18	-1.03	6	2
2812	4.96	-0.04	-0.40	2	2
2827	2.45	-0.07	-0.74	3	2
2828	5 01	1.01	0.77	3	2
2845	2.91	-0.10	-0.30	3	2
2854	4.35	1.43	1.54	3	2
2874	4.85	0.23	0.09	9	2
2906	4.45	0.52	0.04	3	2
2909	5.09	0.46	.	3	2
2921	5.63	-0.08	.	3	2
2922	4.64	-0.11	-0.39	6	2
2927	5.15	0.44	0.09	3	2
2943	0.37	0.42	0.01	6	2
2944	4.68	-0.10	-0.36	6	2
2948	3.83	-0.15	-0.55	3	2
2970	3.94	1.03	0.87	9	2
2993	4.59	1.63	1.92	3	2
2996	3.97	0.18	-0.14	3	2
3014	5.50	1.39	1.68	6	2
3034	4.47	-0.06	-1.01	6	2
3045	3.35	1.23	1.13	6	2
3064	5.18	0.60	.	3	2
3079	5.03	0.47	.	3	2
3080	3.71	1.02	0.81	6	2
3102	4.21	0.72	0.37	9	2
3110	5.31	0.94	0.69	3	2
3131	4.61	0.08	0.08	2	2
3141	4.68	1.50	1.79	9	2
3145	4.40	1.26	1.30	6	2
3165	2.25	-0.27	-1.12	6	2
3188	4.35	0.98	0.66	6	2
3192	4.41	-0.16	-0.60	9	2
3211	4.72	0.95	0.71	9	2
3249	3.53	1.48	1.78	6	2
3259	5.96	0.76	.	6	2
3279	5.58	0.78	.	3	2
3281	5.73	1.06	.	3	2
3297	5.59	0.46	-0.06	6	2
3314	3.90	-0.02	-0.01	6	2
3410	4.15	0.01	-0.00	6	2
3418	4.45	1.22	1.28	6	2
3441	4.88	1.06	0.91	9	2
3454	4.29	-0.19	-0.73	6	2
3459	4.63	0.84	0.47	6	2
3482	3.39	0.69	0.34	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
3484	4.31	0.90	0.59	9	2
3492	4.35	-0.04	-0.05	3	2
3518	4.03	1.27	1.40	6	2
3547	3.13	1.01	0.77	3	2
3556	4.88	0.11	0.16	6	2
3578	5.80	0.53	.	3	2
3596	5.64	1.16	1.05	3	2
3628	4.62	1.58	1.91	6	2
3665	3.89	-0.06	-0.11	9	2
3706	4.77	0.94	0.66	9	2
3709	4.81	0.94	0.66	9	2
3718	4.72	1.66	.	3	2
3733	4.72	0.92	0.63	6	2
3748	1.98	1.43	1.72	9	2
3749	4.70	1.15	1.12	6	2
3759	4.60	0.46	-0.00	9	2
3786	3.58	0.36	0.03	6	2
3787	4.57	0.10	0.07	6	2
3834	4.67	1.32	1.47	6	2
3845	3.90	1.33	1.47	6	2
3849	5.07	-0.15	-0.57	9	2
3858	4.77	-0.13	-0.59	3	2
3871	4.79	0.51	0.34	6	2
3903	4.11	0.94	0.62	6	2
3906	6.03	-0.05	-0.09	3	2
3950	4.69	1.62	1.93	3	2
3970	4.60	-0.08	-0.27	9	2
3981	4.49	-0.04	-0.09	6	2
3991	5.30	0.36	.	3	2
3994	3.62	1.02	0.91	9	2
4092	5.61	1.53	1.87	6	2
4094	3.83	1.49	1.83	9	2
4119	5.08	-0.13	-0.50	6	2
4133	3.86	-0.14	-0.96	6	2
4146	5.07	0.94	0.65	3	2
4158	5.71	0.54	.	3	2
4232	3.12	1.25	1.31	9	2
4251	5.24	0.46	.	3	2
4287	4.08	1.10	1.00	9	2
4299	4.73	1.62	1.96	6	2
4310	4.63	0.33	0.08	3	2
4343	4.47	0.03	0.05	6	2
4368	4.47	0.21	0.12	6	2
4371	5.17	1.52	1.86	3	2
4382	3.57	1.12	0.95	6	2
4386	4.05	-0.06	-0.13	3	2
4395	5.09	0.44	.	3	2
4405	4.07	0.21	0.11	9	2
4418	4.95	1.01	0.77	3	2
4450	3.54	0.96	0.70	6	2
4458	5.97	0.81	.	3	2
4468	4.71	-0.08	-0.19	6	2
4471	4.30	1.00	0.75	9	2
4514	4.73	0.98	0.73	9	2
4517	4.03	1.52	1.82	3	2
4525	6.49	0.68	.	3	2
4540	3.60	0.56	0.09	6	2
4587	5.55	0.77	0.44	9	2
4589	4.65	0.12	0.13	3	2
4608	4.13	0.97	0.62	3	2
4623	4.03	0.33	-0.03	3	2
4630	3.01	1.33	1.47	3	2
4657	6.11	0.47	-0.13	6	2
4662	2.60	-0.10	-0.36	6	2
4689	3.89	0.02	0.04	9	2
4695	4.97	1.18	1.15	3	2
4757	2.95	-0.04	-0.09	6	2
4775	4.30	0.38	-0.01	9	2
4786	2.67	0.90	0.58	6	2
4803	5.42	0.35	.	3	2
4813	4.65	1.24	1.40	3	2
4825	2.75	0.36	-0.04	3	2
4837	5.94	0.86	0.44	3	2
4902	4.79	1.60	1.49	3	2
4910	3.38	1.56	1.76	9	2
4963	4.37	-0.01	-0.02	6	2
5011	5.21	0.60	0.11	3	2
5019	4.73	0.72	0.29	9	2
5020	2.99	0.92	0.64	6	2
5028	2.77	0.05	0.05	6	2
5056	0.98	-0.23	-0.93	6	2
5068	4.76	1.10	1.05	3	2
5089	3.69	1.20	1.03	6	2
5095	4.69	1.63	1.91	3	2
5105	4.93	0.02	0.01	3	2
5107	3.37	0.11	0.10	3	2
5159	5.35	1.12	1.03	3	2
5209	6.44	0.71	.	6	2
5233	6.17	0.54	0.01	3	2
5264	4.25	0.10	0.10	3	2

TABLE 10 SUPPLEMENTARY CAPE UBV PHOTOMETRY

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
5287	3.26	1.13	1.04	6	2
5290	5.46	0.35	0.07	3	2
5313	5.01	-0.10	-0.40	3	2
5315	4.17	1.35	1.47	3	2
5317	5.88	0.48	0.04	3	2
5338	4.07	0.52	0.04	3	2
5359	4.53	0.12	0.13	3	2
5381	4.79	1.32	1.56	3	2
5384	6.27	0.64	0.10	3	2
5393	6.49	0.43	0.04	3	2
5409	4.81	0.70	0.21	3	2
5455	6.21	0.46	.	3	2
5487	3.88	0.38	-0.02	6	2
5511	3.74	-0.01	-0.03	3	2
5526	4.42	1.39	1.49	3	2
5530	5.13	0.39	-0.01	3	2
5531	2.75	0.14	0.11	3	2
5535	4.93	1.00	0.75	3	2
5568	5.63	1.14	.	3	2
5570	4.48	0.32	0.05	3	2
5601	4.41	1.05	0.88	3	2
5603	3.30	1.67	1.90	3	2
5652	4.54	-0.09	-0.34	3	2
5685	2.61	-0.10	-0.37	3	2
5694	5.07	0.54	0.08	3	2
5777	4.62	1.02	0.86	3	2
5787	3.91	1.01	0.75	3	2
5794	3.80	1.38	1.58	6	2
5812	3.66	-0.17	-0.68	3	2
5838	4.72	1.58	1.92	3	2
5854	2.65	1.15	1.26	3	2
5868	4.43	0.60	0.11	6	2
5881	3.56	-0.04	-0.11	3	2
5885	4.63	-0.05	-0.72	3	2
5904	4.59	-0.08	-0.62	3	2
5908	4.13	1.02	0.81	3	2
5928	3.89	-0.19	-0.80	3	2
5941	4.81	-0.08	-0.54	3	2
5944	2.89	-0.18	-0.88	3	2
5953	2.32	-0.10	-0.89	3	2
5954	5.45	0.52	.	3	2
5977	4.17	0.45	0.03	3	2
5984	2.51	-0.07	-0.82	3	2
5993	3.95	-0.03	-0.80	3	2
5997	4.32	0.83	0.49	3	2
6014	5.95	0.99	0.87	3	2
6028	4.59	-0.15	-0.72	3	2
6031	4.95	0.08	0.11	3	2
6056	2.73	1.59	1.95	3	2
6070	4.80	0.01	0.02	3	2
6075	3.25	0.96	0.73	3	2
6081	4.53	0.82	0.49	3	2
6084	2.81	0.14	-0.69	3	2
6093	4.84	0.32	0.06	3	2
6104	4.49	1.02	0.81	3	2
6118	4.31	0.30	-0.71	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
6129	4.65	0.17	0.11	3	2
6141	4.79	-0.13	-0.69	3	2
6147	4.29	0.93	0.72	3	2
6149	3.82	0.02	0.02	3	2
6153	4.46	0.11	0.15	3	2
6165	2.84	-0.25	-1.02	3	2
6171	5.76	0.82	0.56	3	2
6175	2.59	0.02	-0.85	3	2
6243	4.65	0.47	0.07	3	2
6271	3.63	1.38	1.66	3	2
6299	3.21	1.14	1.21	3	2
6378	2.45	0.06	0.09	3	2
6401	4.34	0.85	0.54	3	2
6415	4.75	1.15	1.13	3	2
6426	5.92	1.04	.	6	2
6445	4.41	0.38	-0.04	3	2
6446	4.35	0.03	0.06	3	2
6453	3.29	-0.20	-0.83	3	2
6486	4.18	0.27	0.13	6	2
6492	4.31	0.40	0.10	9	2
6493	4.54	0.38	-0.01	3	2
6498	4.35	1.50	1.61	3	2
6519	4.81	0.00	-0.06	6	2
6561	3.55	0.26	0.15	3	2
6567	4.63	0.11	-0.19	3	2
6580	2.42	-0.23	-0.89	3	2
6581	4.27	0.07	0.10	3	2
6595	4.88	0.46	-0.02	6	2
6603	2.78	1.16	1.23	3	2
6629	3.77	0.03	0.04	3	2
6657	6.15	-0.06	.	3	2
6663	6.43	0.01	.	3	2
6698	3.35	1.01	0.87	3	2
6700	4.77	-0.04	-0.08	6	2
6710	4.63	0.37	-0.01	3	2
6712	4.71	-0.04	-0.83	6	2
6714	3.98	0.02	-0.62	3	2
6723	4.47	0.02	-0.01	3	2
6752	4.03	0.87	0.54	3	2
6766	4.57	0.95	0.72	6	2
6770	4.65	0.95	0.75	3	2
6771	3.73	0.12	0.10	3	2
6812	3.87	0.23	-0.52	3	2
6840	6.01	0.89	0.52	3	2
6842	4.67	1.66	1.81	6	2
6859	2.71	1.38	1.56	3	2
6866	4.87	0.91	0.60	3	2
6869	3.28	0.94	0.66	3	2
6884	4.69	0.96	0.71	3	2
6896	4.82	1.31	0.89	6	2
6913	2.85	1.05	0.90	6	2
6930	4.71	0.06	0.05	3	2
6973	3.87	1.33	1.52	3	2
7020	4.73	0.35	0.13	3	2
7039	3.19	-0.10	-0.37	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
7059	5.69	0.16	0.09	3	2
7063	4.23	1.10	0.78	3	2
7116	4.84	1.42	1.22	3	2
7120	5.01	1.34	1.52	3	2
7121	2.11	-0.19	-0.73	3	2
7141	4.04	0.17	0.09	3	2
7149	4.85	1.08	0.98	3	2
7150	3.53	1.18	1.14	3	2
7193	4.03	1.10	1.01	3	2
7194	2.61	0.08	0.09	3	2
7217	3.77	1.03	0.83	3	2
7234	3.33	1.18	1.16	3	2
7236	3.45	-0.09	-0.27	3	2
7264	2.91	0.35	0.17	6	2
7292	4.87	0.57	0.32	6	2
7340	3.95	0.22	0.12	6	2
7377	3.39	0.31	0.05	3	2
7387	4.65	0.60	0.34	3	2
7429	4.45	1.16	1.28	3	2
7440	4.60	-0.08	-0.15	6	2
7446	4.95	-0.01	-0.89	3	2
7447	4.37	-0.07	-0.47	3	2
7557	0.79	0.22	0.08	3	2
7593	5.73	-0.09	-0.46	3	2
7594	6.50	-0.04	-0.27	3	2
7595	4.73	1.05	0.91	3	2
7597	4.71	0.76	0.31	6	2
7602	3.74	0.86	0.50	3	2
7604	4.55	1.46	1.57	3	2
7618	4.85	0.90	0.55	3	2
7637	5.89	0.58	.	3	2
7710	3.25	-0.07	-0.16	3	2
7722	5.75	0.89	.	3	2
7747	4.24	1.07	0.76	3	2
7754	3.57	0.94	0.68	3	2
7773	4.76	-0.05	-0.11	3	2
7776	3.08	0.79	0.27	6	2
7822	4.77	0.37	0.03	3	2
7884	4.31	0.94	0.68	3	2
7896	5.09	0.70	0.24	3	2
7936	4.14	0.42	-0.01	6	2
7950	3.77	-0.00	-0.00	6	2
7980	4.11	1.65	1.96	3	2
7990	4.73	0.32	0.10	3	2
8060	4.84	0.15	0.11	6	2
8075	4.07	-0.01	0.01	6	2
8080	4.50	1.61	1.93	3	2
8093	4.51	0.95	0.70	3	2
8097	4.72	0.24	0.13	3	2
8123	4.49	0.51	0.01	3	2
8131	3.93	0.53	0.28	3	2
8167	4.29	0.90	0.57	6	2
8191	6.37	0.47	0.09	3	2
8204	3.75	1.00	0.56	6	2
8213	4.50	0.90	0.60	3	2

BRIGHT STAR PHOTOMETRY

B.S.	V	B-V	U-B	WT	S
8232	2.90	0.84	0.52	3	2
8260	4.65	-0.17	-0.72	3	2
8263	6.21	0.06	0.07	3	2
8264	4.69	0.17	0.13	6	2
8265	6.21	0.02	0.01	3	2
8278	3.68	0.32	0.19	6	2
8288	4.73	0.88	0.52	6	2
8308	2.39	1.51	1.64	3	2
8402	4.71	-0.10	-0.45	3	2
8410	5.28	0.22	0.17	3	2
8413	4.85	1.46	1.82	3	2
8414	2.94	0.98	0.68	3	2
8418	4.28	-0.07	-0.30	3	2
8450	3.53	0.08	0.11	3	2
8499	4.17	0.99	0.81	6	2
8518	3.85	-0.06	-0.11	6	2
8539	4.68	-0.04	-0.97	6	2
8551	4.79	1.05	0.89	3	2
8558	3.65	0.40	-0.01	6	2
8573	4.82	-0.06	-0.09	6	2
8597	4.03	-0.09	-0.26	6	2
8628	4.18	-0.11	-0.37	6	2
8649	4.67	1.38	1.56	6	2
8679	4.02	1.57	1.95	3	2
8698	3.75	1.64	1.68	3	2
8704	5.78	-0.08	-0.30	9	2
8709	3.26	0.07	0.09	3	2
8717	4.92	-0.01	-0.02	6	2
8721	6.46	1.11	.	3	2
8728	1.15	0.09	0.11	3	2
8773	4.53	-0.12	-0.49	6	2
8789	4.47	0.90	0.58	6	2
8795	4.52	1.56	1.92	6	2
8812	3.68	1.22	1.24	9	2
8817	4.70	0.66	0.40	3	2
8834	4.22	1.56	1.90	9	2
8841	4.23	1.10	1.03	6	2
8852	3.70	0.92	0.58	6	2
8858	4.39	-0.15	-0.57	9	2
8892	3.96	1.10	0.94	6	2
8906	4.36	1.48	1.83	3	2
8911	4.95	0.03	-0.00	6	2
8916	4.27	1.08	0.99	6	2
8924	6.25	1.11	1.20	6	2
8939	4.69	0.02	-0.02	6	2
8969	4.14	0.51	0.00	6	2
8982	4.81	0.82	0.47	9	2
8984	4.50	0.20	0.10	6	2
8988	4.47	-0.04	-0.11	6	2
9004	4.91	2.49	3.32	3	2
9016	4.57	0.01	-0.03	3	2
9072	4.02	0.42	0.03	3	2
9089	4.40	1.63	1.79	6	2
9091	5.03	-0.14	-0.54	6	2
9098	4.54	-0.04	-0.14	9	2