

On the giant, horizontal and asymptotic branches of Galactic globular clusters – V. CCD photometry of NGC 1261*

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ABSTRACT

BV CCD photometry is presented for 3352 stars (18 variables) in the globular cluster NGC 1261. The main conclusions drawn from the structure of the colour-magnitude diagram (CMD) are as follows.

- (i) The location and structure of the main branches agree with those found in previous studies, confirming the existence of a well-defined blue horizontal branch (HB) tail in addition to the large number of red HB stars.
- (ii) The mean metallicity derived from CMD indicators calibrated with the Zinn & West scale is $[Fe/H] = -1.4 \pm 0.2$, and the very small intrinsic width of the various branches yields very low upper limits ($\Delta[Fe/H] \leq 0.06$, $\Delta[CNO] \leq 0.2$) for any chemical abundance spread.
- (iii) The ‘RGB bump’ is detected at $V = 16.70 \pm 0.05$ as a clump of stars in the luminosity function of the red giant branch.
- (iv) $V_{HB} = 16.70 \pm 0.04$ and $V_{TO} = 20.14 \pm 0.10$ yield $\Delta V_{HB}^{TO} = 3.44 \pm 0.12$. A detailed comparison with the main CMD loci of NGC 288 (a cluster that has similar metallicity but a totally blue HB) throws doubt on the hypothesis that a clear difference in age (NGC 288 being older) is the ‘second parameter’ necessary to explain the observed differences.
- (v) Some evidence is found for differences in the spatial distribution of the red and blue HB stars that is worthy of further analysis.

Key words: stars: abundances – stars: evolution – Hertzsprung–Russell (HR) diagram – globular clusters: individual: NGC 1261.

1 INTRODUCTION

This paper is the fifth in a series devoted to the study of the properties of the bright main branches of Galactic globular clusters. *BV* CCD photometry is presented here for 3334 stars and 18 variables in the cluster NGC 1261 ($\alpha_{1950} = 3^{\text{h}}10^{\text{m}}53^{\text{s}}$, $\delta_{1950} = -55^{\circ}24'$; $l = 271^{\circ}$, $b = -52^{\circ}$). Other papers in this series are Buonanno, Corsi & Fusi Pecci (1981, hereafter Paper I) on M5, Buonanno, Corsi & Fusi Pecci (1985, Paper II) on M15, M92 and NGC 5466, Buonanno et al. (1986, Paper III) on NGC 6572, and Ferraro et al. (1992, Paper IV) on NGC 1904. Detailed photometric

studies have also been, or will be, published by our team on NGC 7492 (Buonanno et al. 1987), NGC 2808 (Ferraro et al. 1990), NGC 6171 (Ferraro et al. 1991), NGC 7006 (Buonanno et al. 1991) and M3 (Buonanno et al. 1993).

We present the observations and reductions in Section 2. In Sections 3 and 4 we briefly examine the problems of completeness, field contamination and reddening, and then give the main ridge lines of the red giant branch (RGB), the asymptotic giant branch (AGB) and the horizontal branch (HB) and describe the overall properties of the CMD. In Section 5 we address (i) the use of the position and intrinsic width of the RGB as metallicity and metallicity spread indicators, and (ii) the detection of the RGB bump. In Section 6 we give the population ratios of the different branches and discuss the implications one can derive from

*Based on observations obtained at the European Southern Observatory, La Silla, Chile.

them. Particular attention is given to the HB structure, which is compared with those of clusters having similar metallicities.

Finally, although our photometry is not deep enough to permit a clear-cut definition of the main sequence (MS), it is still possible to estimate the MS turn-off (MS TO) level (V_{TO}), and in turn Δ_{HB}^{TO} , from which the age of the cluster can be derived following the procedure of Buonanno, Corsi & Fusi Pecci (1989) and Buonanno et al. (1990). Since much better data on the MS of this cluster are now available (Bolte & Marleau 1989, hereafter BM89; Alcaino et al. 1992, hereafter ALAW92), we refer the reader to those studies for a more detailed discussion of this topic.

2 OBSERVATIONS AND REDUCTIONS

2.1 Magnitudes, colours and positions

NGC 1261 was observed with the 1.5-m Danish telescope and the 2.2-m German telescope at ESO, La Silla (Chile) in 1987 February and December. Two other clusters were observed during the same run, namely NGC 2808 (Ferraro et al. 1990) and NGC 1904 (Paper IV). We have obtained 28 V and 27 B frames covering a total area of about 35 arcmin², including the centre of NGC 1261. As in the case of NGC 1904 (Paper IV), however, data corresponding to the very crowded central region at $r < 20$ arcsec have not been used in this paper. The observed region was mapped out with a mosaic of eight partially overlapping fields. In Fig. 1 (opposite p. 274) the outlines of the eight fields are shown over a reproduction of the Alcaino (1979, hereafter AL79) map. Seeing conditions during the observations were 0.9–1.4 arcsec FWHM. Exposure times varied from 30 s (in the central field) up to 500 s (outside).

The reduction procedure was as in Ferraro et al. (1990), to which the interested reader is referred for details. The transformation to the Johnson photometric system was obtained using a standard sequence observed during the same nights in the field of the globular cluster NGC 1904 (Paper IV). The equations relating the instrumental magnitudes to the

Johnson photometric system are

$$B = b + (0.13 \pm 0.01)(b - v) + (21.88 \pm 0.01)$$

$$V = v + (22.55 \pm 0.01).$$

In Table 1 (on microfiche MN264/1) we list final magnitudes, colours and positions for 3334 stars. The X , Y coordinates are in pixels (1 pixel = 0.47 arcsec) and refer to the cluster centre, whose position can be defined using Fig. 1 (opposite p. 274), where bright stars I, J and F from AL79 correspond to our stars no. 1 ($X = -117.526$, $Y = -257.147$), no. 3037 ($X = 218.017$, $Y = 24.240$) and no. 3335 ($X = 185.834$, $Y = 245.870$), respectively. In Table 2 we give the same information for 18 known variables that have been identified in the field. It must be noted, however, that since the variables were observed at random phase the V and $B - V$ values listed in Table 2 do not correspond to the mean magnitudes and colours of the variables. Variable V1 is actually *constant* in our frames. The rms scatter of the three B and four V measures available to us is less than 0.02 mag. The data listed in Table 1 are plotted in Fig. 2.

2.2 Comparison with previous data

We have compared our photometry with the work of AL79, BM89 and ALAW92. In all cases we have considered only non-saturated stars for which a safe identification was possible. We have identified 104 stars in common with AL79, 18 stars in common with BM89 (the identification of the stars in common with BM89 is not easy and could be done only in the outer part of their field) and 69 stars in common with ALAW92. In this last case, to account for the different limiting magnitudes reached by our data, we have restricted the comparison to unblended images of stars with $V \leq 19.5$. The cross-identification of the stars in common and the residuals in magnitude and colour, in the sense of (this study) – (previous work), are given in Tables 3, 4 and 5 and are plotted in Figs 3(a)–(f).

Our data generally compare well with previous photometric work. There is no strong evidence for any trend in

Table 2. List of the variable stars identified in the field of NGC 1261.

N	N(This Paper)	Type	V	B-V	X	Y
V1	279	(a)	16.531	0.848	-66.453	-59.938
V2	548	RRab	16.561	0.342	87.485	331.087
V3	152	RRab	16.619	0.393	103.253	-112.783
V4	798	RRab	16.910	0.371	221.872	192.457
V5	906	RRab	16.747	0.481	-76.019	-9.717
V6	3793	RRab	16.421	0.240	161.223	-20.260
V9	236	RRc	16.519	0.151	78.711	-79.043
V10	719	RRab	16.627	0.338	102.981	154.240
V11	1389	RRab	16.747	0.497	-197.634	187.638
V12	3039	RRab	16.637	0.446	180.194	28.587
V13	25	RRc	16.604	0.245	-164.157	-205.409
V14	82	RRab	16.991	0.419	-114.843	-150.006
V16	372	RRab	16.864	0.459	-41.196	-31.819
V17	962	RRab	16.827	0.692	-12.428	49.111
V18	942	RRc	16.355	0.674	-44.338	36.453
V19	807	RRab	16.393	0.079	35.938	28.417
V20	908	RRab	16.629	0.435	57.057	-3.936
V21	991	RRc	16.680	0.505	-25.513	55.415

(a) According to Wehlau & Demers (1977) there is no real evidence of variability for this star.

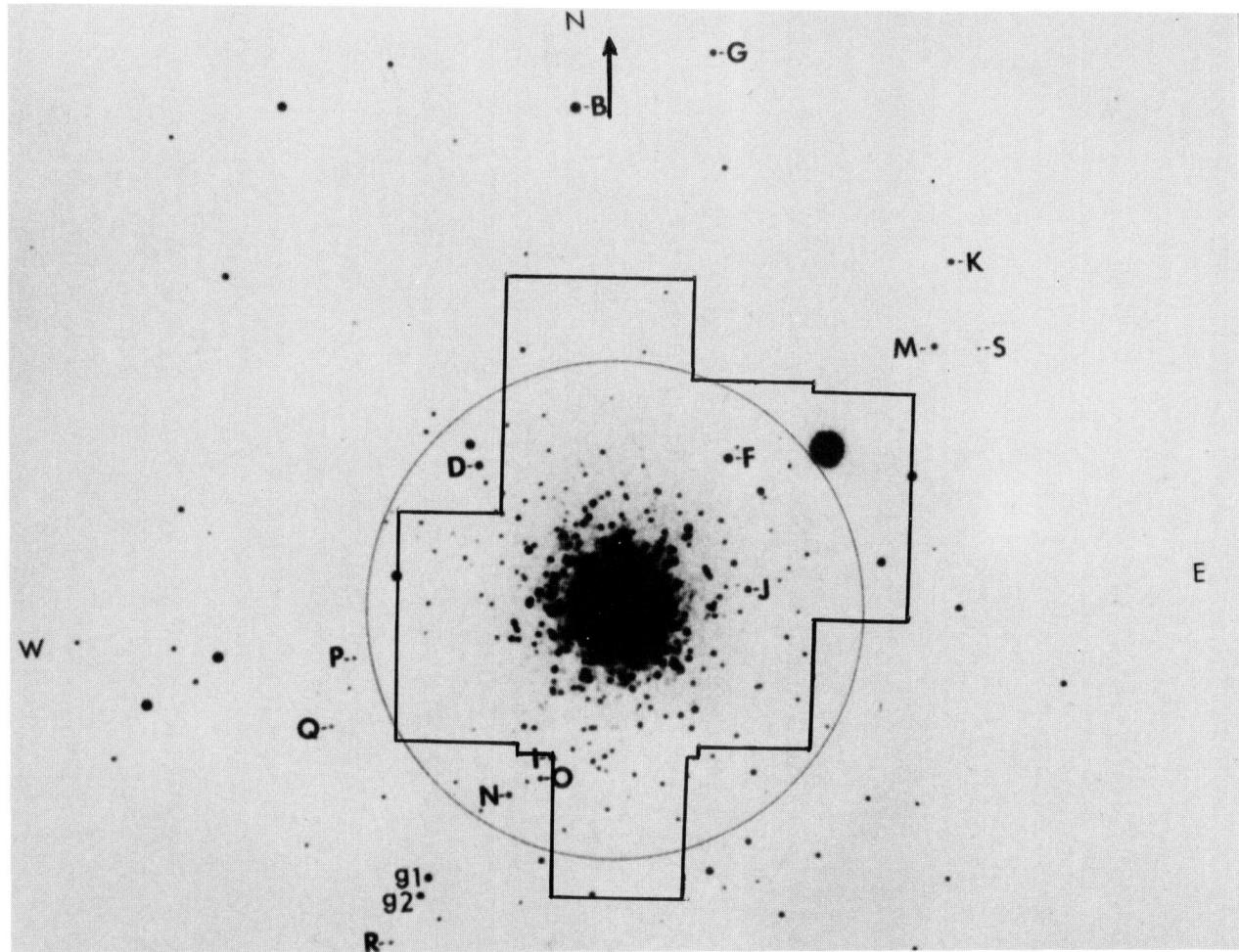


Figure 1. Identification chart of NGC 1261 from AL79 with our observed fields superimposed. Scale: 1 arcmin \sim 1 cm. Data corresponding to objects within a circular area ($r < 20$ arcsec) were not used owing to their being too affected by crowding.

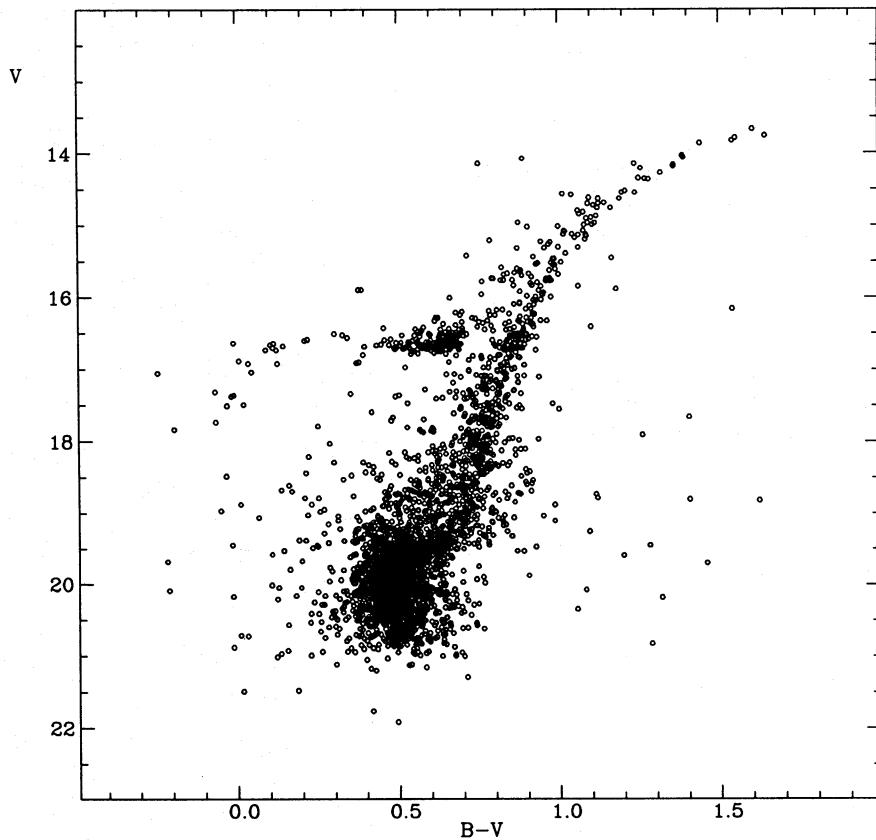


Figure 2. Colour–magnitude diagram derived from our CCD observations (see Table 1, on microfiche MN264/1). Variable stars have been omitted.

Table 3. Cross-identification and comparison with data from Alcaino (1979).

N(AL79)	N(This Paper)	ΔV	$\Delta(B-V)$	N(AL79)	N(This Paper)	ΔV	$\Delta(B-V)$	N(AL79)	N(This Paper)	ΔV	$\Delta(B-V)$
4	744	0.054	-0.012	43	3562	0.056	-0.076	91	2915	-0.079	0.004
6	1297	-0.075	0.005	46	3535	0.005	-0.030	92	2892	0.113	-0.016
7	753	0.051	-0.094	49	4177	0.042	-0.005	93	1131	0.008	-0.005
8	767	0.019	0.039	50	4136	-0.166	0.015	94	2904	-0.013	-0.014
9	1571	-0.065	-0.037	51	4169	-0.055	0.024	95	641	0.107	-0.033
10	1585	0.028	-0.102	52	19	0.016	-0.026	96	619	-0.007	0.028
11	1534	-0.026	-0.054	53	49	0.010	-0.078	97	677	0.092	-0.122
12	764	0.045	-0.204	54	42	-0.081	0.049	98	609	0.075	-0.098
13	787	0.186	-0.028	55	40	0.019	0.034	100	501	-0.023	-0.102
14	1515	-0.129	0.038	56	3	-0.012	-0.003	101	328	0.061	-0.087
15	1599	-0.054	-0.030	57	2	-0.080	0.023	102	228	-0.008	0.007
16	1529	0.217	-0.175	58	4202	-0.043	-0.011	103	147	-0.026	0.067
17	786	0.019	0.008	59	4194	-0.006	-0.002	104	97	0.037	-0.141
18	758	-0.039	0.028	60	4191	0.068	-0.037	105	119	0.120	-0.130
19	3344	0.040	-0.037	61	4184	-0.143	0.038	106	136	-0.122	0.023
20	3323	0.058	-0.074	62	4158	0.023	0.000	107	138	-0.018	-0.043
21	3278+3279	—	—	63	4142	-0.148	0.020	108	439+442	—	—
22	3265	0.114	-0.053	64	4132	-0.026	-0.029	109	432	0.027	-0.039
23	3183	0.031	-0.053	69	4	-0.115	0.087	110	448	0.019	0.042
24	3201	0.171	0.042	70	20	-0.230	0.210	112	1004	0.001	0.015
25	723	0.006	0.131	71	23	-0.061	0.010	113	601	0.066	-0.058
27	680	-0.053	0.132	73	72	-0.041	0.132	114	998	-0.044	-0.015
28	624	0.119	-0.033	74	86	0.004	0.063	115	996	-0.046	0.014
29	3158	0.067	0.012	76	180	0.053	0.035	117	572	0.016	0.031
30	3109	-0.007	0.012	77	251	0.117	0.063	118	343	0.026	0.075
31	3093	0.047	-0.089	78	292	0.034	0.221	119	825	0.159	-0.168
32	3055	0.064	-0.055	79	2526	0.023	-0.029	120	269	0.237	-0.067
33	3042	0.239	-0.084	80	2550	-0.029	0.007	121	399	-0.020	0.032
35	3374	0.014	0.082	81	2676	0.004	0.029	122	402	-0.064	0.000
36	2982	0.070	-0.040	82	2707	-0.024	0.048	123	317	0.016	0.049
37	3801	-0.019	-0.009	83	2580	-0.034	-0.037	124	835	0.028	-0.079
39	3717	0.002	-0.002	84	2690	-0.100	-0.061	F	3335	0.014	0.062
40	3666	-0.022	0.004	86	2842	-0.045	0.042	I	1	-0.031	0.033
41	3677	0.037	0.021	87	2874	-0.005	-0.027	J	3037	-0.045	-0.031
42	3636	-0.004	0.008	90	2945	-0.060	-0.082				

luminosity, but a small systematic colour shift (≈ -0.025 mag) with respect to the AL79 photometry is present (with a large dispersion) (see Figs 3a and b). There is also a small colour effect with respect to BM89, with, in contrast, a very small dispersion [$\Delta(B-V) = 0.015 \pm 0.007$], together with a small magnitude shift ($\Delta V = -0.023 \pm 0.007$). Finally, a small systematic colour shift of about -0.026 mag and a small magnitude trend are present with respect to the ALAW92 data.

2.3 Photometric errors

The photometric internal accuracy of our photometry has been estimated according to the formula given in Ferraro et al. (1991). Since crowding conditions and photon statistics

play a fundamental role in determining the rms values, the objects have been divided into two groups, the inner sample (all the stars with $20 \text{ arcsec} < r < 1 \text{ arcmin}$) and the outer sample ($r > 1 \text{ arcmin}$). Fig. 4 shows the rms values versus the mean final magnitude (V and B) of each star for the inner sample (lower panels) and the outer sample (top panels), respectively. As expected, internal errors increase at fainter magnitudes due to photon statistics, and it is also evident from Fig. 4 that in the inner region the internal errors are larger even at very bright magnitudes due to crowding. In fact, in the magnitude range $13 < V < 18$, the mean errors grow from $\sigma_B = 0.008$ and $\sigma_V = 0.006$ mag, in the outer regions, up to $\sigma_B = 0.021$ and $\sigma_V = 0.013$, in the inner regions. Finally, as we have more extensively discussed in the other papers of this series, we estimate that systematic total errors involved in the calibration procedure are ≤ 0.05 mag.

Table 4. Cross-identification and comparison with results of Bolte & Marleau (1989).

N(BM(89))	N(This Paper)	ΔV	$\Delta(B-V)$
11	3037	0.023	-0.036
14	3109	0.031	-0.026
24	3677	0.068	-0.045
27	42	-0.015	-0.019
29	3717	0.034	-0.025
32	3666	0.017	0.019
38	3535	0.009	-0.035
39	3575	0.042	-0.034
45	3636	0.027	-0.018
46	3801	0.002	0.011
71	3158	0.020	0.030
80	19	-0.046	0.035
82	3055	-0.009	0.012
84	3573	0.009	0.015
87	3093	-0.011	0.013
88	3562	-0.026	0.032
104	3998+3128	—	—
114	3506	-0.035	-0.001

Table 5. Cross-identification and comparison with results of ALAW92.

N(ALAW92)	N(This Paper)	ΔV	$\Delta(B-V)$	N(ALAW92)	N(This Paper)	ΔV	$\Delta(B-V)$	N(ALAW92)	N(This Paper)	ΔV	$\Delta(B-V)$
1	3343	-0.152	0.041	24	624	-0.006	-0.017	48	3683	-0.043	0.011
2	3335	0.020	0.054	25	3147	-0.048	0.091	49	235	0.085	-0.092
3	789	0.087	-0.067	26	3128	-0.096	0.045	50	3677	0.047	-0.033
4	3323	-0.106	0.057	27	3109	0.011	0.027	51	3668	-0.051	0.046
5	3281	-0.074	0.006	28	3093	-0.059	0.009	52	3636	-0.006	-0.007
6	3282	0.012	0.006	30	3080	0.003	0.032	53	3638	-0.039	0.078
7	3261	-0.150	0.131	31	3065	-0.071	0.029	54	179	-0.031	-0.033
8	743	0.049	-0.081	32	3042	-0.075	0.023	55	3587	-0.063	-0.008
9	3260	-0.079	0.008	33	3055	-0.041	-0.010	56	115	-0.088	-0.014
10	738	0.040	-0.032	34	3374	0.049	-0.019	57	114	-0.028	-0.005
11	3235	-0.135	0.064	35	3044	0.019	0.137	58	3573	0.060	0.053
12	723	-0.033	-0.012	36	3039	-0.092	0.219	60	3562	-0.065	0.043
13	724	0.065	0.016	37	3037	0.034	-0.002	61	66	0.080	-0.099
14	3511	0.085	-0.043	38	424	-0.083	0.024	62	3559	0.015	0.004
15	3196	-0.092	0.026	39	435	-0.054	0.035	63	49	0.086	0.042
16	675	-0.126	0.032	40	3011	0.023	-0.017	65	34	-0.001	0.072
17	680	0.031	0.079	41	383	-0.042	-0.015	66	3373	0.250	0.082
18	3186	-0.050	-0.038	42	2991	-0.014	0.048	67	293	-0.061	0.024
19	3183	-0.060	-0.018	43	3780	0.023	-0.041	330	3091	0.753	0.004
20	3172	-0.009	-0.004	44	3786	-0.013	0.021	368	3074	0.193	-0.113
21	3161	0.005	0.032	45	3738	-0.014	0.004	493	326	-0.206	-0.050
22	651	0.012	0.014	46	296	0.085	-0.007	575	181	0.028	-0.105
23	3158	-0.010	0.030	47	231	-0.093	0.026	626	3567	0.619	0.036

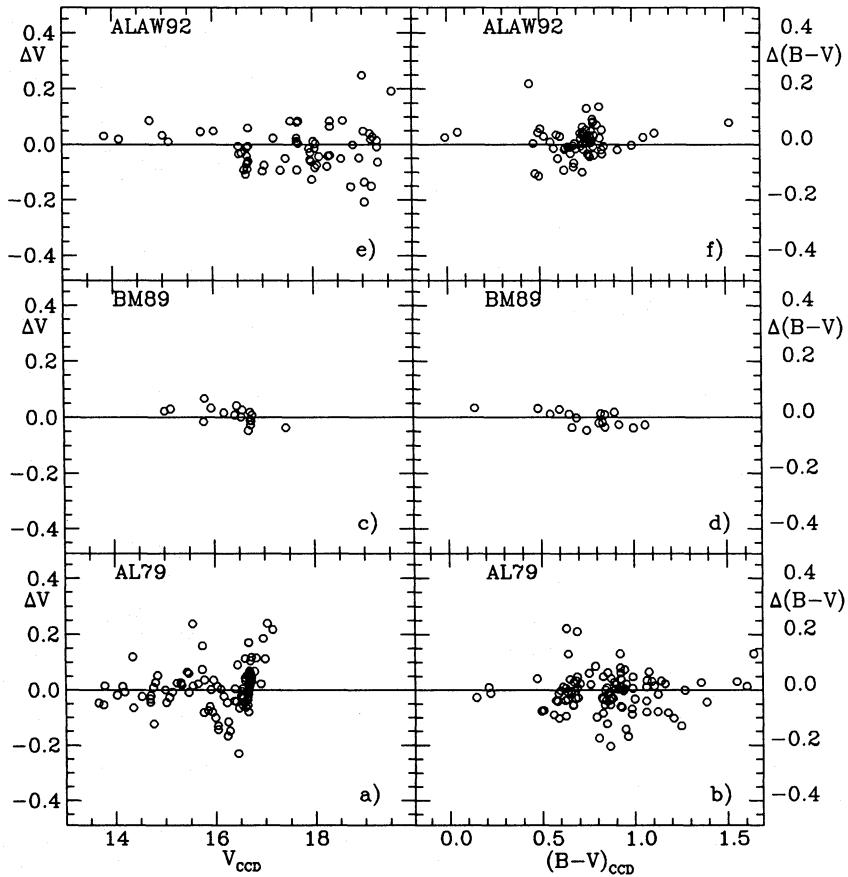


Figure 3. Comparison with previous photometries. Differences between our V magnitudes and $B-V$ colours and those obtained by (a,b) AL79, (c,d) BM89 and (e,f) ALAW92, for the stars in common, are plotted versus our values.

have divided our data into three subsets containing stars in annuli at different distances from the cluster centre:

- (i) subsample A: all stars with $20 \text{ arcsec} < r < 60 \text{ arcsec}$;
- (ii) subsample B: all stars with $60 \text{ arcsec} < r < 90 \text{ arcsec}$;
- (iii) subsample C: all stars with $r > 90 \text{ arcsec}$.

Figs 6(b), (c) and (d) show the CMDs for the three annuli separately, while Fig. 6(a) gives the CMD obtained from the total sample. It must be noted that the limiting magnitude reached by our observation in the central annulus ($20 \text{ arcsec} < r < 1 \text{ arcmin}$) is very different from that reached in the outer ones, and that the photometric scatter here is larger (see Section 2.3). In fact, to reduce the effects of crowding, we used shorter exposures for this region (see Section 2.1), thus obtaining mainly the brightest objects. The definition of each branch (in particular the faint RGB and the SGB), however, becomes sharper and sharper going from subsamples A to C, although the population of the branches becomes poorer and poorer. As far as the problem of contamination is concerned, since the few objects on the red side of the giant and subgiant branches disappear going inwards (compare Figs 6b and c with d) we conclude that these are likely to be field objects. In fact, according to Ratnatunga & Bahcall's (1985) models, about 10–15 field stars are expected in the region surveyed by our observations. The main loci of the cluster have been derived from the colour-magnitude diagram in Fig. 6(a), which divides the various branches into

bins and determines, in each bin, the mode of the distribution in colour. Table 6 lists the values adopted as the normal points for each branch.

In Fig. 7 the mean ridge lines reported in Table 6 are compared with those presented by BM89 and ALAW92. As can be seen, the overall agreement is fairly good. There are, however, small discrepancies with respect to the red HB, the SGB and the faint RGB which may become important when the detailed CMD structure is used, for instance, to obtain very accurate estimates of the cluster age (see Bolte 1989). We shall briefly discuss the possible implications that these uncertainties may have in this respect in Section 6.2.

3.3 Reddening

We summarize in Table 7 some of the most recent determinations of reddening for NGC 1261. As can be seen, different estimates agree on a value of zero reddening, as expected considering the very high Galactic latitude of the cluster. The agreement among the various estimates is excellent. In the following we adopt $E(B-V) = 0.00$.

4 THE COLOUR-MAGNITUDE DIAGRAM: OVERALL STRUCTURE

Of the previous photometric studies of NGC 1261, those by BM89 and ALAW92 are the most complete; in fact, they

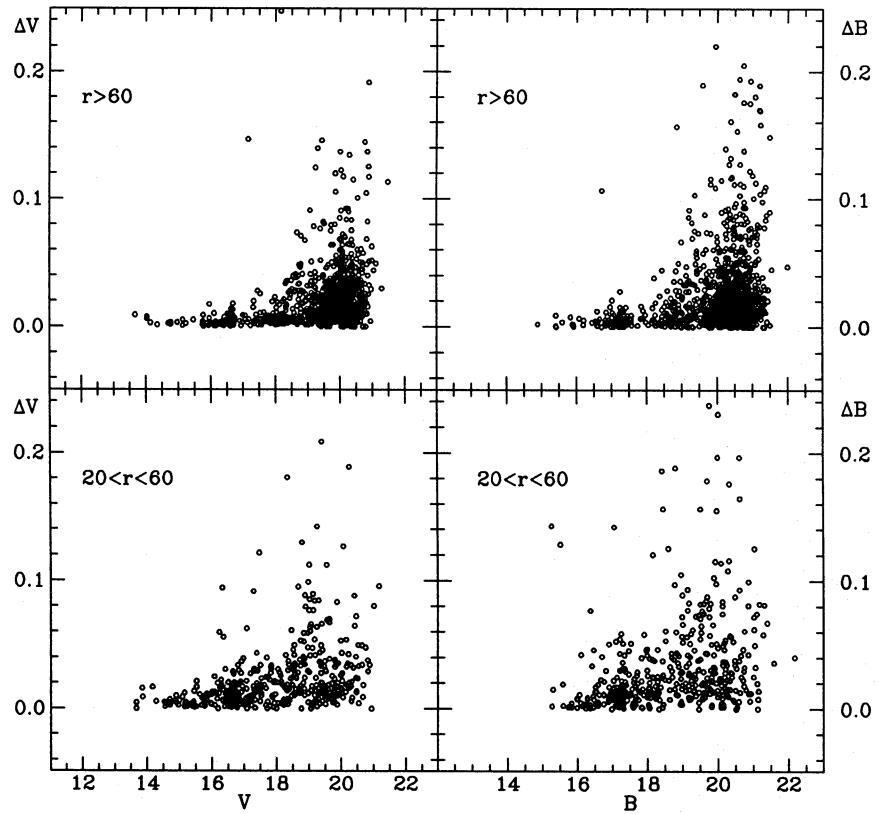


Figure 4. Internal errors of the CCD photometry. The rms values of the frame-to-frame scatter, expressed in magnitudes, are plotted versus the mean V and B magnitudes adopted for each measured star in the inner region, $20 \text{ arcsec} < r < 60 \text{ arcsec}$ (lower panels), and in the outer region, $r > 60 \text{ arcsec}$ (top panels).

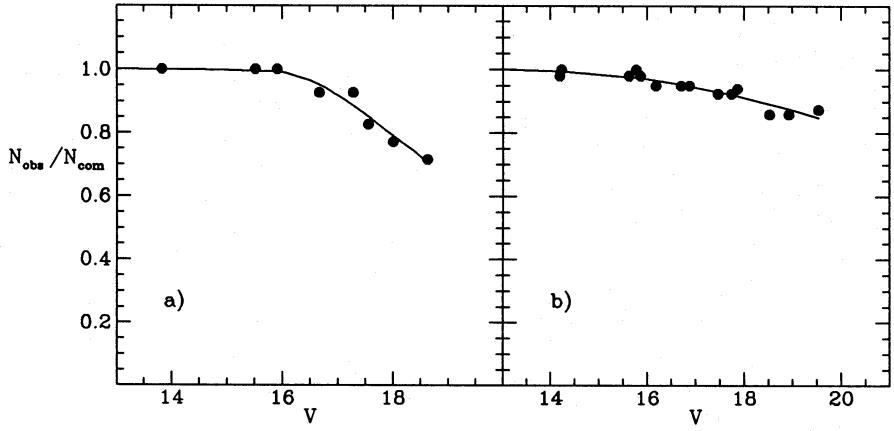


Figure 5. Completeness curves in (a) one of our central CCD frames and (b) an external region ($r \sim 2 \text{ arcmin}$).

both present very well-defined sequences for the most important branches of the cluster (HB, RGB, SGB and MS). However, because they observed a few small CCD fields, their bright samples are not populous enough to carry out a quantitative population analysis. The present photometry confirms the overall characteristics of the CMDs presented by BM89 and ALAW92, and moreover allows us to add some considerations concerning the much wider post-MS population that we measured.

(1) The giant branch is well populated up to the giant tip, which occurs about 3 mag above the HB level at $V = 13.757$ and $B - V = 1.642$ (star no. 680).

(2) The HB is dominated by a population of red stars ($0.55 < B - V < 0.70$), but there is also a very large number of variables (18 in the area covered by our observations) and a blue tail which, although not very populated, spans a wide range in colour. The HB level is estimated as the lower boundary of the red clump, and occurs at $V = 16.70 \pm 0.04$.

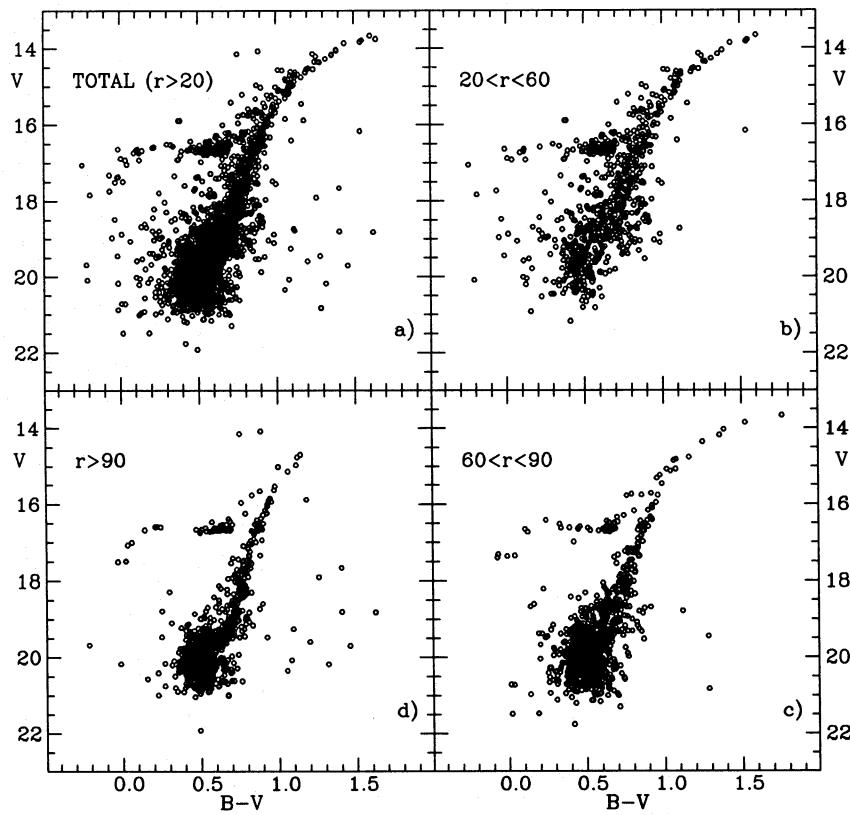


Figure 6. Colour–magnitude diagrams for annuli at increasing distances from the cluster centre.

Table 6. Mean ridge lines of NGC 1261.

V	B-V	V	B-V	V	B-V
RGB		17.640	0.788	20.634	0.532
13.664	1.760	17.858	0.774		
13.713	1.629			HB	
13.797	1.542	SGB		16.700	0.695
13.918	1.463	18.039	0.764	16.700	0.636
14.039	1.393	18.208	0.753	16.700	0.577
14.208	1.335	18.438	0.743	16.700	0.535
14.377	1.272	18.631	0.733	16.700	0.484
14.498	1.217	18.873	0.722	16.601	0.224
14.667	1.162	19.042	0.708	16.685	0.144
14.812	1.127	19.211	0.695	16.806	0.086
14.982	1.096	19.293	0.679	17.024	0.037
15.127	1.068	19.359	0.663	17.217	0.006
15.127	1.068	19.420	0.646	17.441	-0.018
15.272	1.034	19.474	0.625	17.604	-0.039
15.465	0.999	19.516	0.599		
15.646	0.971	19.559	0.569	AGB	
15.803	0.954	19.607	0.542	14.667	1.110
15.960	0.937	19.668	0.517	14.824	1.065
16.166	0.916	19.788	0.493	15.078	1.013
16.299	0.899	19.921	0.481	15.235	0.968
16.468	0.881	19.982	0.476	15.392	0.926
16.637	0.864	20.066	0.475	15.562	0.888
16.818	0.847	20.139	0.473	15.695	0.857
17.012	0.829	20.211	0.476	15.852	0.823
17.229	0.819	20.332	0.487		
17.435	0.802	20.471	0.505		

(3) The blue HB tail extends from $B - V \approx 0.4$ at $V \approx 16.70$ down to $V \approx 18$ and $B - V \approx -0.10$. It is rather scattered in colour at the faint end (see Section 6.1 for a discussion), and does not show any marked gap or clump.

(4) The giant and subgiant branches are sufficiently populated to allow the detection of the RGB bump (see Section 5.3) that occurs at $V = 16.70 \pm 0.05$.

(5) The region of the MS TO is well defined in the outer rings and highly populated; the measurement of the MS TO point is feasible, but the observed MS is not deep enough to allow the determination of a mean ridge line suitable for obtaining reliable estimates of the distance modulus and the age of the cluster based on the MS. We simply confirm here that the $V_{TO} = 20.2$ and $(B - V)_{TO} \approx 0.45$ found by BM89 and the $V_{TO} = 20.12 \pm 0.10$ and $(B - V)_{TO} \approx 0.45 \pm 0.04$ determined by ALAW92 are totally compatible with our estimates of $V_{TO} = 20.14$ and $(B - V)_{TO} = 0.47$. From $V_{TO} = 20.14$ and $V_{HB} = 16.70$ we derive $\Delta_{TO}^{HB} = 3.44$. We shall comment briefly on the age of the cluster in Section 6.2.

5 THE GIANT BRANCH

5.1 Metal abundance indicators

The height above the HB, ΔV (Sandage & Wallerstein 1960), the slope, S (Hartwick 1968), and the intrinsic colour of the RGB at the HB level, $(B - V)_{0,g}$ (Sandage & Smith 1966), can be used to obtain a ‘photometric’ measure of the metallicity of NGC 1261 through their calibrations in terms of $[Fe/H]$; such a measure was obtained, for instance, by Zinn & West (1984) and Ferraro et al. (1991). As is well known, a proper determination of these observables requires the adoption of a value for the interstellar reddening, and knowledge of the magnitude level of the HB, V_{HB} .

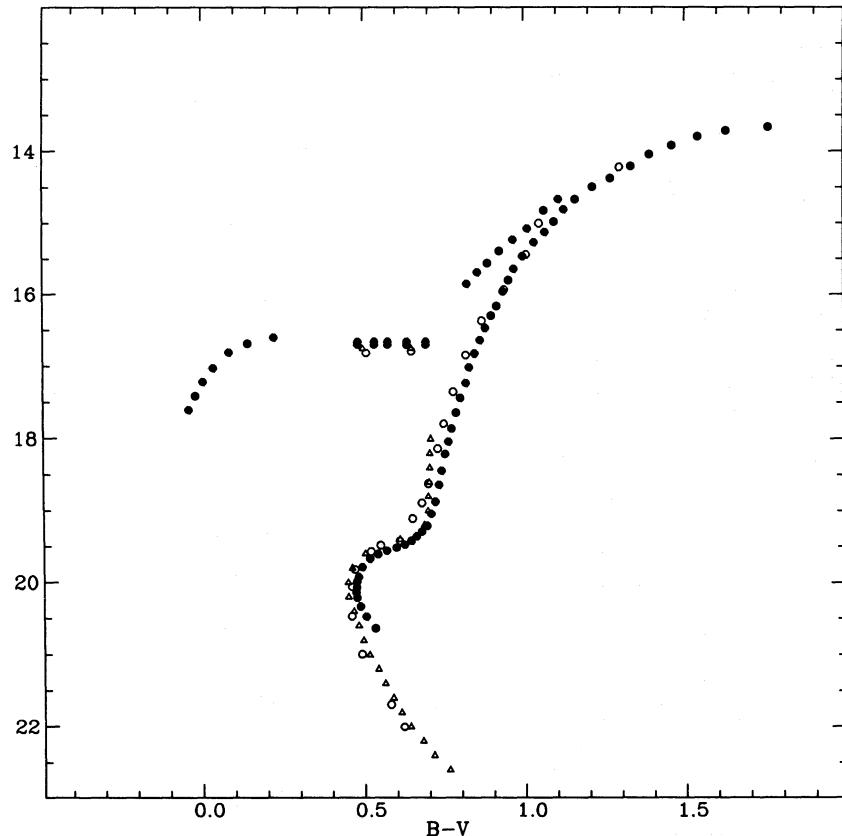


Figure 7. Comparison between the mean ridge lines reported in Table 6 (filled circles), those presented by BM89 (open circles) and those presented by ALAW92 (triangles).

Table 7. Metallicity and reddening values for NGC 1261.

[Fe/H]	E(B-V)	References
—	0.00	Burstein & Mc Donald 1975
-1.24	—	Frogel et al. 1983
-1.24	0.00	Bica & Pastoriza 1983
-1.21	—	Smith 1984
-1.14	—	Pilachowski 1984
-1.29	0.00	Zinn 1985
-1.31	—	Zinn & West 1984
—	0.00	Reed et al. 1988
-1.17	0.00	Webbink 1985
—	0.00	Peterson 1986

The HB level in this cluster can be defined with very high accuracy thanks to the very sharp lower boundary of the red clump (at $V = 16.70 \pm 0.02$), which is clearly visible in the best photometry annulus (see Fig. 6d) and in the zoomed Fig. 8, where our HB (panel 8b) is compared with those obtained from the previous photometries (panel 8a). We took this lower boundary to be the location of the zero-age horizontal branch (ZAHB) at $(B - V) = 0.65$. On the other hand, the HB average level computed using the total HB population in the colour range $0.2 < B - V < 0.6$ gives $\langle V_{\text{HB}} \rangle = 16.66$. Since some evolution off the ZAHB is to be expected, at least for some HB stars, a difference of 0.04 mag between the lower HB envelope and the average HB level is conceivable. In the following we will thus assume for the ZAHB that $V_{\text{HB}} = 16.70 \pm 0.04$.

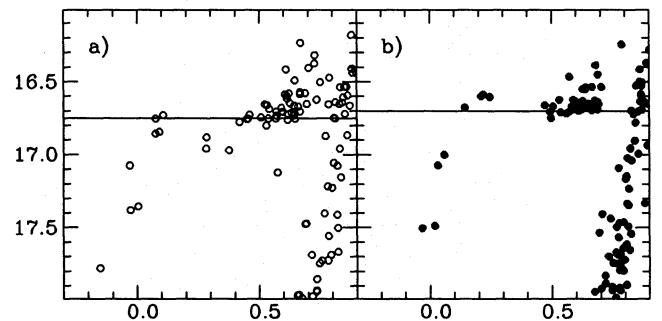


Figure 8. Comparison between the HBs. (a) Bolte's (private communication) data (open circles) and mean ridge lines from Bolte (private communication) and ALAW92, leading to $V_{\text{HB}} = 16.75$ (solid line). (b) Our data for $r > 90$ arcsec (filled circles), from which we derive $V_{\text{HB}} = 16.70$ (solid line).

Using, then, $E(B - V) = 0.00$, $V_{\text{HB}} = 16.70$ and the data in Table 6, one obtains $\Delta V = 2.66 \pm 0.02$, $S = 5.4 \pm 0.4$, $(B - V)_{0,g} = 0.87 \pm 0.01$, and, in terms of [Fe/H], -1.54 ± 0.04 , -1.85 ± 0.2 and -1.26 ± 0.04 respectively, leading to a weighted mean value $[\text{Fe}/\text{H}] = -1.40$. In Table 7 other estimates of the metal content of this cluster are listed. As can be seen, the values obtained here agree with most of the latest determinations. In the following we will adopt $[\text{Fe}/\text{H}] = -1.4 \pm 0.2$.

5.2 The intrinsic width of the giant branch and chemical homogeneity

The intrinsic width (IW) of the RGB yields a useful upper limit to the dispersion in metallicity of the elements having low ionization potentials (Paper IV and references therein). The IW of the RGB in NGC 1261 has been determined following the procedure described in Paper IV, and, to make sure that the IW obtained is not affected by the scattered data observed in the central regions, we have restricted the sample considered to stars with $r > 60$ arcsec from the cluster centre (i.e. samples B + C).

Fig. 9 presents the result of the whole analysis in the magnitude range $13 < V < 18$. The two curves plotted in this figure represent the upper and lower limits for the IW. The data are compatible with a very low IW ($\sigma \approx 0.015$), suggesting a very high degree of chemical homogeneity among the RGB stars, at least for the elements that most strongly affect the RGB colour location (Renzini 1977; Rood 1978). In fact, adopting the relation $\Delta(B-V)/\Delta[\text{Fe}/\text{H}] \approx 0.25$ reported in Ferraro et al. (1991), one can estimate a very low intrinsic dispersion ($\Delta[\text{Fe}/\text{H}] = 0.06$) in the metal abundance of this cluster.

Moreover, since any spread in the abundance of the CNO elements is expected to widen the IW of the MS TO and SGB regions, we have determined the IW of the upper MS and that of the subgiant branch in the interval $18 < V < 20.5$ for the outermost sample C ($r > 90$ arcsec). Fig. 10 shows the results obtained by applying the same procedure as above in this magnitude range. Adopting the calibration of Straniero & Chieffi (1991) (reported in Ferraro et al. 1991), the measured upper limit for $IW \leq 0.03$ mag would lead to a spread smaller than $\Delta[\text{CNO}] \sim 0.2$.

Since the estimated IWs are *upper limits* and since, at least in principle, other factors such as rotation or binarity may produce a ‘non-zero IW’ in these regions, we are inclined to conclude that there is no evidence for any significant chemical inhomogeneity within NGC 1261.

5.3 The RGB bump

In Fig. 11(a) we show the log-integrated luminosity function of the RGB, which allows us to detect the so-called RGB bump (see for references and discussion Fusi Pecci et al. 1990) in the RGB of NGC 1261 as a break in the distribution at $V = 16.70 \pm 0.05$. As pointed out by Rood & Crocker (1985), and further discussed by Renzini & Fusi Pecci (1988) and Fusi Pecci et al. (1990), the detection of this break in the log-integrated luminosity function of the RGB is the most reliable evidence for the existence of a clump of stars, which has been predicted by all theoretical models as a consequence of the pause in the evolution that occurs when the hydrogen-burning shell passes through the discontinuity left by the maximum penetration of the convective envelope. It is also well known that the actual detection is usually made difficult by the poor quality of the available samples. Fusi Pecci et al. (1990) presented a detailed study of this specific problem and reported on the RGB bump detections achieved in about a dozen clusters. The existence of a clear RGB bump in NGC 1261 is also confirmed by the differential luminosity function presented in Fig. 11(b).

6 THE HORIZONTAL BRANCH

6.1 Star counts and helium abundance

According to the definitions given in Ferraro et al. (1991), we have used the stellar counts on the AGB, the RGB and the HB to determine the population ratios R , R' , R_1 and R_2 . To compute these ratios we have, in setting the separation between the main branches, followed the assumptions made by Buzzoni et al. (1983) with respect to the AGB, RGB and HB, and have adopted a differential bolometric correction between the HB and the RGB equal to -0.15 (Buzzoni et al. 1983).

The determination of population ratios involving HB stars may be difficult if the observed samples have very different completeness levels with varying distance from the cluster centre. The present photometry in NGC 1261 is, however, not substantially affected by such a problem, since the com-

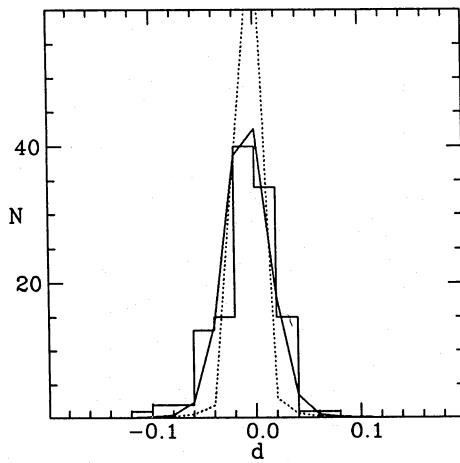


Figure 9. Determination of the intrinsic width (IW) of the RGB stars at $r > 60$ arcsec in the range $13 < V < 18$. The histogram reports the distribution of residuals in $(B-V)$ with respect to the adopted RGB ridge line, the dotted line gives the distribution of the photometric internal errors (i.e. $IW = 0.0$), and the solid curve is the convolution of the photometric errors with an IW of 0.015 mag.

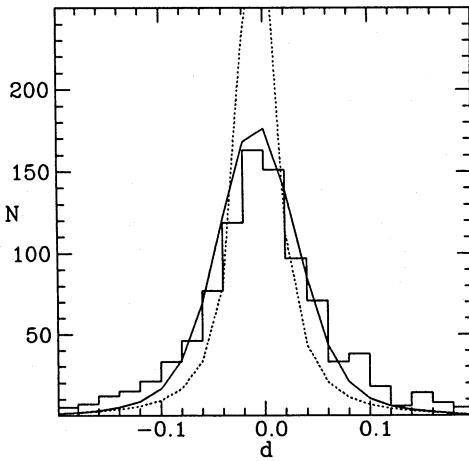


Figure 10. As Fig. 9, but for SGB stars at $r > 90$ arcsec in the range $18 < V < 20.5$. The solid curve is the convolution of the photometric errors with an IW of 0.03 mag.

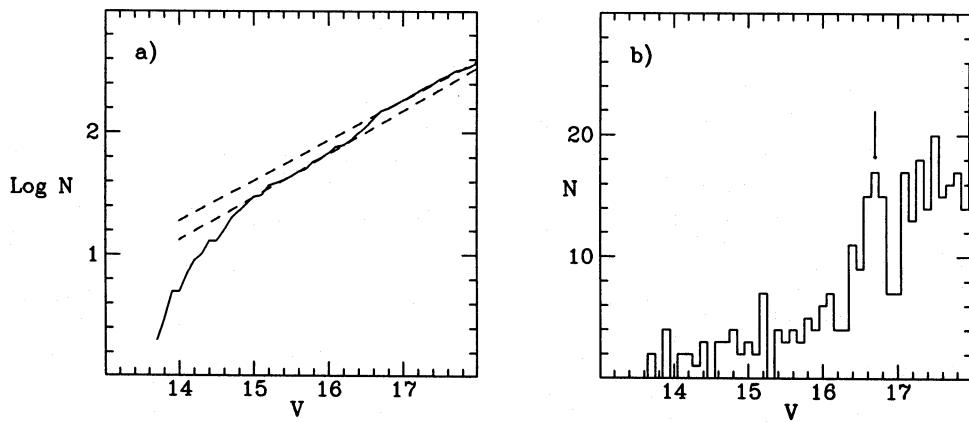


Figure 11. Observed RGB luminosity function (LF). (a) Integrated LF; the dashed lines are linear fits to the regions above and below the ‘bump’. (b) Differential LF; the arrow shows the ‘bump’ located using the integral LF.

completeness level achieved is always very high (see Section 3.1). Moreover, since we have computed the completeness curves, we could also correct properly the samples of the inner regions in computing the star counts.

Table 8 presents the numbers of stars that we derived from our samples and the corresponding ratios. The observed star counts (in brackets) have been corrected for completeness according to the completeness curve shown in Fig. 5(a) for stars at $r \leq 60$ arcsec and according to the curve in Fig. 5(b) for stars at $r > 60$ arcsec. The associated errors are simply the proper combination of the square roots of the numbers. Applying equations (11) and (13) of Buzzoni et al. (1983), which relate the R and R' ratios to the primordial helium abundance, we obtain $Y_R = 0.23 \pm 0.02$ and $Y_{R'} = 0.23 \pm 0.03$, respectively.

In conclusion, we adopt $Y = 0.23 \pm 0.02$, as obtained by the R -method and in perfect agreement with other determinations (Denegri, Sadoulet & Spiro 1990; Fuller, Boyd & Kalen 1991; Olive, Steigman & Walker 1991).

6.2 HB structure and the ‘second parameter’ problem

The HB structure of NGC 1261 is very interesting, and worthy of discussion. In fact, although the cluster is quite metal rich ($[Fe/H] = -1.4$) and most of its HB stars are located to the red side of the instability strip, as is normal for this metallicity, there is also a group of stars delineating a well-defined blue HB tail.

If all these objects are bona fide HB stars, the total range in colour (effective temperature) covered by the HB is very high, and the mass range is sizeable (being the difference in mass between the reddest HB objects and the bluest ones larger than $0.15 M_\odot$; see Fusi Pecci et al. 1993, fig. 1). Considering the whole sample, the numbers of HB stars located bluewards of the instability strip (B), within the strip (V) and redwards of it (R) are in the ratio $B:V:R = 23:18:199$. Hence the blue tail actually represents about 10 per cent of the total population, and the parameter defined by Zinn & Lee (see Zinn 1986), $(B-V)/(B+V+R)$, turns out to be -0.73 .

It is interesting to compare the HB structure of NGC 1261 with those of clusters having similar metallicities. Zinn

Table 8. Star counts and population ratios (see Section 6.1).

N_{RGB}	N_{HB}	N_{AGB}	
(230) 241	(171) 175	(35) 35	
R	R'	$R1$	$R2$
1.38 ± 0.19	1.15 ± 0.15	0.15 ± 0.03	0.20 ± 0.05

(1985) lists 16 clusters with metallicities in the interval $-1.40 < [Fe/H] < -1.20$, with NGC 1261 having in his compilation $[Fe/H] = -1.29$. The average of the $(B-R)/(B+V+R)$ parameters for these clusters is $\sim 0.05 \pm 0.67$ (Ferraro et al., in preparation), and the actual values of $(B-R)/(B+V+R)$ vary from $+0.99$ for NGC 288 (HB almost completely blue) to -0.87 for NGC 362 (HB almost completely red). Hence the HB of NGC 1261 is much redder than the mean value of $(B-R)/(B+V+R)$ in its metallicity bin, and strongly different from that of NGC 288, a cluster having almost the same metallicity. This evidence has led many authors to conclude that a difference in age (the second parameter) is responsible for the huge variation of $(B-R)/(B+V+R)$ within this metallicity group (see Zinn 1986; Bolte 1989; Lee, Demarque & Zinn 1990; Green & Norris 1990, and references therein).

In particular, Bolte (1989) specifically compared NGC 288, 362 and 1261, showing that ‘differences exist in the positions of the MS TOs in these clusters that are mostly naturally explained if NGC 288 is some 3 billion yr older than NGC 362 and ~ 1 to 2 billion yr older than NGC 1261’. Although the data we have obtained here for the MSs of these clusters are not good enough to repeat his analysis independently, and although we do not offer strong arguments against his conclusions, we would like to stress that there are a number of uncertainties still affecting his conclusions.

In his figs 4 and 5, Bolte (1989) reported the result of a careful comparison between the ridge lines of NGC 1261 and 288 made by imposing the coincidence of the two HBs or of the cluster MS TOs. Since the first choice would also give a better fit to the faint MS, Bolte preferred to adopt the

comparison in which a difference in the MS TOs (and thus in age) is obtained.

In Fig. 12 we have made a similar match assuming the same relative shift in distance modulus (1.29) adopted by Bolte (1989), but using various ridge lines, including the one adopted for both NGC 288 and 1261 by Bolte himself. From this comparison, we conclude the following.

(i) Differences amongst various photometric studies of the same cluster are at least comparable to the differences considered to be significant between the two cluster loci compared. In particular, the blue HB location is quite strongly dependent on calibrations and treatment of colour equations, and the proper matching of the blue HB tail of NGC 1261 (even if it is assumed that the blue tail consists of ‘normal’ HB stars) and of the blue HB of NGC 288 is very tricky.

(ii) If one adopts the ridge lines obtained by Bolte (1989) for both NGC 1261 (open circles in Fig. 12) and NGC 288 (solid line), coupled with our own HB for NGC 1261 (filled circles), one can obtain a fairly good match between the two cluster loci that does not necessarily imply any difference in age.

(iii) ~ 1 billion yr is hardly sufficient, according to any HB model (see for instance Rood 1973; Lee et al. 1990), to move the bulk of the HB population of NGC 1261 from the red HB to the blue tail, and a larger difference in age,

although possible, does not seem to be supported by the available data.

In conclusion, we cannot exclude the possibility that a quite substantial difference in age could be the cause of the different HB structure observed between NGC 1261 and 288. We note, however, that there are still uncertainties affecting the whole comparison. In particular, we believe that in this specific comparison between NGC 1261 and 288 a proper combination of various factors could probably account for the difference in HB structure. These factors are: a small difference in age (within 1 Gyr); some difference in metallicity (NGC 1261 being more metal rich); some difference in the [CNO/Fe] ratio (with NGC 1261 having a slightly higher ratio); a stronger impact of the global environment on the present and precursor HB stars of NGC 1261 (NGC 1261 is a more concentrated cluster than NGC 288); and a possibly different incidence of binaries and binary descendants (NGC 288 is a loose cluster rich in blue stragglers, and its HB displays a peculiar gap).

6.3 R_3 and the radial distribution of the HB stars

There is now a growing body of evidence that the HB structure of globular clusters varies with varying distance from the cluster centre (Djorgovski, Piotto & King 1988, 1991a, b; Bailyn et al. 1992 and references therein). The radial dis-

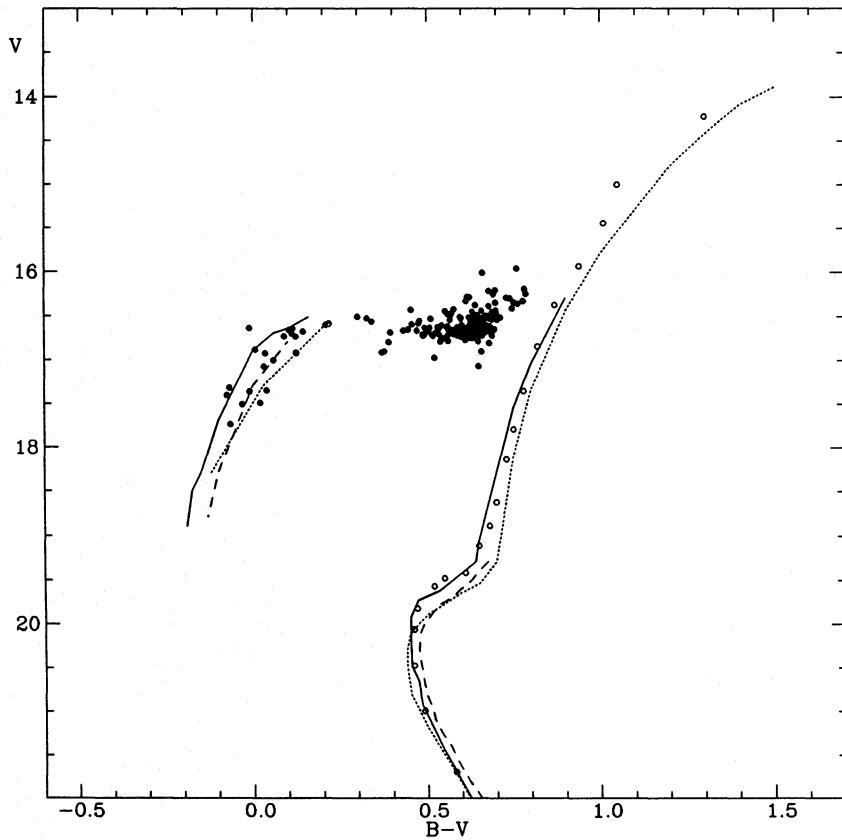


Figure 12. Comparison between NGC 1261 and 288. The mean ridge lines of NGC 288 from Bolte (1989, solid line), Buonanno et al. (1984, dashed line), and Olszewski & Aaronson (1985, dotted line) are compared to the mean ridge lines of NGC 1261 from Bolte 1989 (open circles) and our data for the HB (filled circles).

Table 9. HB population in the blue ($B - V < 0.22$; BHB) and in the red ($B - V > 0.30$; RHB). Observed samples are reported in brackets.

Annulus	N_{RBHB}	N_{BBHB}	R_3
$r < 60''$	(9) 10	(110) 115	0.09 ± 0.04
$r > 60''$	(13) 18	(80) 84	0.15 ± 0.06

tribution of stars along the HB is usually described in terms of the parameter R_3 (Paper IV). The blue portion of the HB of NGC 1261 is, however, not populated enough to allow a meaningful definition of R_3 . We have thus followed a slightly different approach. We have divided the HB stars into two groups according to their radial position: (1) $r < 60$ arcsec and (2) $r > 60$ arcsec, and then within each group we have inserted all the HB stars with $B - V < 0.22$ into the blue subsample (N_{BBHB}), and all the HB stars with $B - V > 0.30$ into the red sample (N_{RBHB}).

Table 9 shows the populations of the blue horizontal branch (BHB) and red horizontal branch (RHB) groups (observed and corrected for completeness) in the two areas and the corresponding ratios. As one can see, the BHB population is almost constant going from region (1) to region (2), while the population of RHB stars decreases by almost 30 per cent. It is clear that, since the number of BHB stars is small, statistical fluctuations and some residual incompleteness (small indeed, see Section 3.1) could explain the difference without implying any strong radial variation. Although moderately statistically significant if taken individually, such variations, are, however, now being detected in many clusters, and their presence in almost every cluster properly studied gives much greater weight to the whole scenario proposed, for instance, by Fusi Pecci et al. (1992, 1993).

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On the giant, horizontal and asymptotic branches
of Galactic globular clusters – V.
CCD photometry of NGC 1261

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Table 1. Final magnitudes, colours and positions for 3334 stars.

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
1	14.689	1.143	-117.526	-257.147	52	17.268	0.811	28.081	-177.762	104	18.955	0.632	-3.264	-135.574
2	15.930	0.953	-27.783	-256.768	53	16.696	0.862	32.464	-171.796	105	18.448	0.756	-111.911	-136.230
3	16.628	0.677	-14.813	-247.238	54	19.101	0.449	74.419	-175.557	106	16.686	0.636	-112.970	-129.366
4	16.245	0.787	-81.702	-244.394	55	18.978	0.543	73.319	-170.362	107	18.876	0.712	-118.215	-129.015
5	18.002	0.753	-68.136	-244.811	56	16.599	0.661	51.094	-174.868	108	18.634	0.736	-94.953	-136.168
6	19.087	0.695	-102.649	-241.530	57	19.164	0.699	101.334	-175.240	109	18.880	0.495	29.609	-136.483
7	18.125	0.776	-102.789	-236.972	58	19.154	0.412	-123.934	-173.998	110	17.898	0.713	33.196	-133.113
8	17.504	-0.030	-53.187	-234.802	59	19.126	0.664	-53.919	-173.085	111	19.641	0.573	-57.945	-135.351
9	18.043	0.735	0.315	-230.281	60	17.344	0.814	-136.089	-170.283	112	18.011	0.802	78.504	-135.764
10	18.626	0.667	-69.538	-226.281	61	18.751	0.699	-7.700	-168.915	113	18.032	0.773	79.666	-128.083
11	18.066	0.769	107.691	-226.979	62	16.650	0.661	-35.419	-163.704	114	17.960	0.725	135.130	-135.051
12	19.104	0.709	47.615	-223.815	63	19.544	0.618	-30.438	-163.689	115	16.702	0.578	123.677	-134.383
13	18.253	0.752	52.368	-218.851	64	18.661	0.706	-31.062	-166.836	116	19.022	0.676	61.545	-133.372
14	18.733	0.677	48.987	-217.596	65	17.062	0.831	-27.870	-157.066	117	19.052	0.594	-29.568	-133.230
15	18.620	0.705	24.923	-217.247	66	17.698	0.732	124.974	-166.377	118	18.804	0.531	-38.062	-131.038
16	16.665	0.603	-62.698	-210.774	67	17.332	0.881	-126.615	-165.104	119	14.350	1.250	7.411	-130.334
17	19.058	0.559	-7.321	-210.870	68	19.173	0.637	-111.106	-164.330	120	16.625	0.669	3.351	-120.432
18	17.614	0.805	-5.483	-207.057	69	19.344	0.612	-88.457	-165.113	121	18.464	0.636	-2.015	-121.717
19	16.676	0.144	121.245	-210.051	70	19.263	0.424	-88.968	-162.915	122	17.342	0.776	3.711	-114.651
20	16.450	0.690	-50.000	-208.574	71	18.801	0.461	72.734	-162.811	123	17.903	0.721	-2.345	-113.438
21	16.511	0.901	-43.900	-208.100	72	16.409	0.922	-55.940	-160.232	124	18.301	0.670	-9.930	-111.611
22	18.182	0.794	-31.734	-208.753	73	18.920	0.539	90.317	-158.632	125	18.962	0.729	-2.366	-107.934
23	16.599	0.210	-146.804	-207.830	74	19.479	0.565	92.832	-162.160	126	16.612	0.837	-16.862	-113.609
24	17.541	0.824	-14.600	-207.570	75	18.206	0.221	-5.909	-158.689	127	17.798	0.787	-12.406	-118.787
26	16.691	0.870	34.085	-202.987	76	18.976	0.499	-45.115	-157.630	128	17.405	0.803	1.706	-123.255
27	16.624	0.532	32.934	-205.540	77	19.049	0.714	-76.032	-156.817	129	19.120	0.584	22.864	-129.877
28	18.412	0.774	-119.104	-199.430	78	18.880	0.632	-77.068	-151.247	130	17.352	0.841	92.283	-129.960
29	19.455	0.512	65.334	-197.645	79	16.653	0.631	45.232	-156.719	131	16.615	0.684	-17.287	-129.243
30	19.232	0.484	65.977	-195.677	80	18.199	0.731	100.206	-154.947	132	18.405	0.652	-20.232	-125.453
31	19.968	0.460	61.960	-195.213	81	17.974	0.732	0.040	-154.483	133	16.981	0.862	47.783	-128.117
32	19.427	0.503	-50.453	-193.598	83	18.772	0.665	-109.234	-147.572	134	19.306	0.600	-99.679	-126.113
33	19.393	0.639	-50.334	-190.983	84	16.653	0.447	-115.572	-143.130	135	17.788	0.810	-80.602	-126.449
34	18.814	0.811	135.336	-191.919	85	19.539	0.610	-106.155	-146.589	136	14.758	1.163	-53.934	-126.717
35	17.929	0.747	-56.409	-190.474	86	16.104	0.923	-100.932	-149.351	137	17.226	0.822	-63.526	-124.615
36	18.986	0.501	-116.434	-189.977	87	19.231	0.687	91.230	-151.040	138	14.032	1.387	-58.972	-116.300
37	19.411	0.425	-114.389	-189.849	88	19.791	0.612	92.343	-154.136	139	16.612	0.668	-66.291	-124.685
38	19.358	0.387	7.477	-189.823	90	17.660	0.773	-37.630	-142.900	140	18.674	0.699	-43.172	-125.843
39	18.277	0.744	28.266	-189.430	91	18.622	0.663	-87.000	-145.349	141	18.620	0.712	-136.794	-125.062
40	16.649	0.684	76.662	-189.796	92	16.648	0.688	-64.947	-143.809	142	19.489	0.660	125.302	-124.217
41	17.743	0.750	-94.428	-188.185	93	18.842	0.665	-57.819	-141.415	143	15.524	0.935	17.538	-123.421
42	15.759	0.829	102.772	-188.102	94	16.836	0.849	-72.272	-140.021	144	17.723	0.791	21.628	-121.940
43	18.686	0.659	-37.768	-187.568	95	19.167	0.661	-63.360	-138.447	145	19.319	0.364	18.321	-115.240
44	18.674	0.727	-137.306	-186.845	96	16.339	0.913	-79.617	-141.043	146	17.090	0.788	15.261	-124.156
45	18.772	0.599	-32.111	-185.732	97	15.957	0.949	20.655	-143.730	147	15.074	1.077	64.000	-120.913
46	18.214	0.667	-164.570	-180.123	98	17.370	0.835	17.860	-139.757	148	18.667	0.706	93.951	-121.696
47	18.687	0.544	-71.768	-178.868	99	18.716	0.497	3.911	-140.340	149	18.708	0.607	98.611	-120.317
48	18.853	0.490	-66.834	-176.040	100	18.339	0.810	7.234	-138.936	150	19.243	0.612	96.766	-117.272
49	14.760	1.122	126.485	-178.481	101	18.880	0.727	-134.860	-136.823	153	16.577	0.653	102.838	-109.517
50	17.641	0.792	-132.109	-177.419	102	18.638	0.566	-6.028	-137.330	154	15.233	0.975	93.713	-106.043
51	18.327	0.750	-134.411	-175.466	103	19.047	0.611	-0.428	-137.757	155	17.995	0.762	100.764	-101.485

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
156	17.313	-0.067	88.519	-102.281	207	18.377	0.785	75.426	-104.789	259	14.362	1.281	64.109	-51.700
157	15.314	0.956	92.383	-100.809	208	17.869	0.577	75.145	-97.947	260	16.536	0.689	65.409	-59.172
158	19.566	0.579	106.272	-101.983	209	18.681	0.659	75.702	-94.966	261	16.602	0.544	58.657	-60.489
159	16.576	0.875	90.266	-94.023	210	18.790	0.836	-126.691	-102.717	262	17.404	0.618	57.340	-54.687
160	18.265	0.747	51.770	-120.053	211	19.368	0.449	134.874	-101.596	263	16.717	0.490	57.666	-69.328
161	19.217	0.431	132.230	-118.951	212	18.224	0.665	-120.938	-97.613	264	17.833	-0.193	52.574	-65.043
162	18.968	0.621	-42.804	-118.787	213	18.778	0.659	3.557	-97.772	265	17.649	0.705	64.621	-72.749
163	18.446	0.765	-45.351	-112.845	214	19.471	0.526	3.426	-94.589	266	18.668	0.519	65.296	-74.628
164	18.570	0.743	-148.360	-117.736	215	18.826	0.724	18.960	-97.174	267	18.717	0.590	60.194	-77.826
165	18.772	0.578	87.800	-117.321	216	16.260	0.708	21.453	-93.953	268	19.010	0.486	72.034	-69.366
166	18.534	0.591	-95.247	-116.534	217	18.838	0.861	-110.885	-95.043	269	15.547	0.983	-91.474	-76.704
167	19.367	0.657	-101.079	-112.066	218	18.600	0.696	-73.251	-94.828	270	17.475	0.845	-91.177	-75.249
168	18.313	0.490	-96.594	-112.166	219	17.649	0.741	-72.649	-88.006	271	16.465	0.796	-3.660	-74.921
170	18.716	0.709	28.613	-113.177	220	18.737	0.492	-72.894	-82.700	272	14.547	1.198	-2.109	-68.860
171	19.306	0.412	41.364	-113.181	221	14.210	1.257	62.800	-94.245	273	16.455	0.891	6.677	-66.174
172	18.845	0.647	44.915	-109.760	222	17.174	0.873	55.462	-93.421	274	15.994	0.976	4.426	-66.694
173	19.221	0.317	48.860	-108.119	223	16.919	0.036	59.528	-85.630	275	18.509	0.710	127.377	-73.106
174	18.100	0.773	73.366	-112.828	225	16.972	0.765	54.066	-82.549	276	18.927	0.761	-164.864	-71.885
175	19.079	0.701	74.579	-112.851	226	16.190	0.783	62.713	-92.091	277	17.480	0.740	-65.555	-69.991
176	19.685	0.553	-143.134	-113.323	227	19.040	0.535	-101.213	-93.262	278	18.555	0.616	-65.634	-65.515
177	18.733	0.631	-140.766	-111.138	228	15.462	0.987	116.879	-93.200	280	19.374	0.437	98.260	-70.421
178	19.528	0.867	-126.866	-112.364	229	18.783	1.118	113.726	-88.409	281	16.617	0.817	95.887	-65.898
179	16.590	0.839	141.300	-111.279	230	19.319	0.539	118.840	-85.987	282	19.564	0.568	100.111	-62.596
180	14.843	1.065	-111.689	-109.664	231	17.359	-0.009	119.179	-80.091	283	16.527	0.599	-51.043	-69.700
181	19.210	0.477	125.596	-109.066	232	18.285	0.740	-157.604	-90.653	284	17.105	0.938	-56.774	-66.279
182	17.949	0.855	19.828	-107.853	233	18.672	0.137	-155.360	-87.340	285	17.055	-0.243	-54.232	-59.915
183	16.514	0.690	13.904	-101.026	234	18.566	0.697	-136.700	-85.104	286	14.273	1.319	-46.440	-58.236
184	16.031	0.946	12.077	-93.940	235	18.353	0.633	142.226	-85.094	287	16.341	0.752	-51.477	-57.236
185	16.723	0.634	7.791	-87.585	237	16.832	0.878	84.145	-77.396	288	16.173	0.826	-54.985	-51.713
186	17.962	0.935	13.934	-86.183	238	18.918	0.790	81.579	-73.406	289	18.879	0.986	-40.436	-62.238
187	16.682	0.396	6.002	-85.028	239	18.357	0.584	87.845	-74.660	290	16.971	0.522	-57.306	-48.313
188	18.026	0.287	9.866	-80.187	240	16.631	0.537	97.440	-79.789	291	16.795	0.391	-54.217	-49.315
189	17.927	0.677	1.823	-81.096	241	18.674	0.774	100.847	-78.379	292	16.594	0.631	-145.915	-67.828
190	16.647	0.624	7.396	-76.594	242	18.962	0.560	102.838	-73.451	293	17.970	0.723	111.747	-67.851
191	17.936	0.701	8.087	-107.423	243	16.658	0.105	-106.153	-82.468	294	18.808	0.663	105.853	-67.643
192	19.319	0.852	111.881	-106.934	244	17.063	0.675	-101.085	-75.609	295	18.383	0.698	108.623	-63.887
193	16.766	0.612	37.255	-106.147	245	18.049	0.717	-118.062	-81.147	296	17.720	0.790	114.011	-62.236
194	16.730	0.090	29.617	-105.253	246	18.934	0.469	-120.547	-78.177	297	18.261	0.714	-102.766	-66.760
195	15.302	1.000	39.053	-98.119	247	18.660	0.529	-120.770	-73.713	298	18.208	0.619	-107.481	-62.453
196	15.586	0.823	37.215	-89.640	248	18.986	0.604	-115.304	-70.534	299	18.330	0.744	-81.666	-67.577
197	16.527	0.512	41.406	-83.826	249	18.586	0.603	-116.277	-83.068	300	18.976	0.622	-86.851	-66.632
198	17.089	0.759	31.549	-83.504	250	18.390	0.605	-82.566	-80.870	301	17.931	0.768	-92.187	-62.585
199	18.666	0.532	28.068	-86.019	251	16.817	0.853	-142.606	-80.100	302	16.530	0.862	-88.732	-61.728
200	18.836	0.562	22.796	-87.181	252	19.057	0.858	-13.321	-80.736	303	18.549	0.617	-91.204	-55.628
201	16.319	0.944	38.485	-87.860	253	18.744	0.793	-14.689	-74.477	304	15.733	0.973	-90.923	-48.472
202	16.803	0.681	36.589	-90.889	254	18.607	0.851	-13.566	-69.455	305	16.697	0.630	-85.509	-50.540
203	19.136	0.606	53.662	-106.940	255	16.368	0.834	57.332	-46.347	306	18.717	0.526	-98.015	-45.334
204	17.652	0.819	-166.328	-104.177	256	17.995	0.691	61.766	-46.204	307	16.116	0.909	-89.949	-43.689
205	19.224	0.726	-30.868	-104.064	257	16.644	0.629	62.360	-43.602	308	17.975	0.875	-98.747	-39.719
206	16.631	0.559	72.785	-103.551	258	14.161	1.359	62.485	-54.217	209	19.027	0.828	-90.609	-38.968

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
310	18.670	0.634	-87.800	-37.506	360	16.661	0.853	61.262	-33.132	411	18.590	0.549	-41.268	-3.032
311	18.102	0.880	-104.583	-41.151	361	17.668	0.835	66.934	-30.555	412	18.970	0.580	-40.681	-5.549
312	18.108	0.863	-104.374	-34.396	362	16.744	0.624	61.536	-29.077	413	17.468	0.529	-34.632	-0.866
313	16.663	0.433	-88.619	-49.319	363	18.898	0.450	68.732	-32.979	414	18.264	0.621	-37.436	1.772
314	18.682	0.755	-137.917	-63.564	364	14.632	1.125	65.704	-20.819	415	15.768	0.961	-155.468	2.253
315	17.757	0.814	-133.894	-63.711	365	16.881	0.007	76.526	-32.379	416	16.524	0.328	-152.183	7.215
316	18.926	0.497	-114.262	-59.353	366	17.067	0.650	73.968	-27.362	417	18.559	0.657	-152.772	12.423
317	15.546	0.989	-115.047	-53.919	367	15.621	0.882	59.091	-15.206	418	16.662	0.662	-154.174	-0.657
318	16.517	0.897	-110.145	-52.998	368	18.754	0.730	67.351	-15.706	419	18.433	0.668	-119.357	0.977
319	16.811	0.733	-118.906	-44.921	369	16.669	0.633	59.623	-17.623	420	16.636	-0.010	-81.900	1.798
320	16.490	0.671	-100.298	-53.713	370	16.682	0.610	-133.394	-32.698	421	17.076	0.743	-44.036	3.187
321	18.786	0.749	-78.051	-57.721	371	17.814	0.695	-41.706	-33.966	422	16.671	0.803	-42.121	7.702
322	17.487	0.732	78.430	-57.581	373	18.843	0.594	-91.398	-30.023	423	16.611	0.561	-46.406	12.313
323	17.649	0.729	-25.332	-56.691	374	15.600	0.871	-29.874	-30.585	424	18.055	0.756	120.234	5.289
324	18.904	0.737	137.043	-55.151	375	16.290	0.915	-31.119	-28.640	425	17.721	0.763	121.738	13.319
325	18.783	0.209	-62.666	-54.564	376	18.432	0.899	113.949	-28.651	426	18.844	0.545	121.774	10.260
326	19.040	0.600	93.955	-53.217	377	18.498	0.677	113.183	-23.117	427	17.173	0.785	-138.126	6.917
327	18.911	0.493	121.464	-53.132	378	16.691	0.661	110.217	-17.217	428	18.410	0.908	40.068	7.045
328	15.461	0.983	113.598	-48.664	379	19.168	0.399	-108.064	-27.260	429	19.354	0.495	107.313	8.172
329	17.519	0.816	113.428	-44.594	380	18.474	0.881	-104.836	-26.489	430	18.046	0.740	102.083	8.689
330	16.626	0.653	-138.221	-51.534	381	16.912	0.783	53.549	-25.957	431	19.035	0.950	-111.626	8.643
331	17.467	0.776	-141.577	-49.851	382	18.263	0.560	49.832	-24.498	432	15.307	1.061	-117.202	14.881
332	16.518	0.661	-19.811	-49.828	383	18.317	0.696	127.745	-24.130	433	18.695	0.831	-109.991	15.151
333	15.211	0.786	-71.221	-49.794	384	18.248	0.678	82.874	-23.457	434	17.530	0.869	-111.551	19.968
334	18.348	0.758	-62.917	-47.955	385	15.766	0.973	81.706	-15.340	435	17.953	0.731	138.594	11.015
335	19.438	0.533	-78.498	-45.026	386	16.552	0.661	83.485	-6.266	436	18.851	0.642	-92.962	12.434
336	17.496	0.782	-68.309	-43.798	387	18.322	0.665	79.234	-4.830	437	17.822	0.609	-125.598	14.526
337	19.025	0.219	88.579	-46.011	388	17.614	0.707	83.955	-1.674	438	18.885	0.594	-131.072	17.274
338	17.835	0.567	75.232	-46.430	389	16.719	0.589	89.336	-6.932	439	15.079	1.018	-138.057	19.730
339	18.636	0.779	75.294	-43.268	390	17.009	0.720	74.953	-8.211	440	18.596	0.622	-130.430	21.117
340	19.080	0.699	137.015	-45.445	391	15.761	0.820	91.570	0.334	441	18.490	0.640	-131.621	24.317
341	19.049	0.371	102.023	-44.377	392	19.041	0.312	94.457	-10.998	442	16.373	0.920	-138.006	21.628
342	18.225	0.549	90.194	-43.428	393	19.414	0.600	93.100	-13.321	443	19.176	0.391	110.560	17.566
343	15.226	0.945	93.551	-38.304	394	18.740	0.564	99.694	-12.804	444	18.698	0.581	123.653	20.385
344	16.593	0.794	97.577	-33.183	395	16.855	0.801	92.177	-17.566	445	18.631	0.626	127.866	20.149
345	18.722	0.644	103.134	-34.277	396	19.421	0.743	-111.030	-20.468	446	17.888	0.722	-120.664	23.596
346	17.443	0.832	105.617	-29.113	397	16.641	0.653	-112.302	-14.366	447	17.083	0.768	-113.622	27.752
347	19.728	0.414	101.091	-22.364	398	18.443	0.627	-105.817	-12.732	448	15.319	0.872	-111.934	31.772
348	18.455	0.447	-141.053	-42.532	399	14.700	1.092	-116.538	-10.145	449	18.892	0.453	-107.504	26.972
349	18.871	0.230	-77.134	-40.160	400	16.577	0.906	-117.483	-16.419	450	19.526	0.590	-111.098	40.034
350	18.735	0.585	-81.417	-39.306	401	16.728	0.834	-101.774	-11.794	451	17.238	0.760	-114.538	42.164
351	16.628	0.662	-73.794	-38.030	402	14.356	1.270	-99.968	-5.089	452	18.955	0.413	-108.304	43.713
352	18.167	0.647	-75.400	-33.219	403	16.661	0.564	-125.670	-4.449	453	16.637	0.607	-113.160	50.470
353	19.402	0.779	-80.098	-32.262	404	17.142	0.788	-110.781	-2.400	454	17.006	0.808	-105.279	48.366
354	18.121	0.757	-81.219	-27.860	405	19.393	0.357	-123.698	-10.596	455	19.201	0.471	-100.140	23.413
355	18.858	0.595	109.379	-39.674	406	16.727	0.830	-103.155	4.640	456	19.064	0.672	-95.072	23.906
356	18.712	0.800	-23.579	-37.334	407	19.375	0.747	120.530	-9.698	457	19.514	0.455	-96.862	26.228
357	18.427	0.421	45.117	-36.900	408	19.047	0.580	118.109	-7.870	459	19.003	0.656	108.219	25.700
358	18.554	0.563	-152.309	-36.674	409	18.195	0.747	114.119	-4.036	460	18.328	0.839	-69.445	25.700
359	16.394	0.790	53.483	-35.536	410	19.191	0.611	112.613	0.568	461	19.419	0.485	-151.857	26.574

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
462	17.329	0.724	96.311	26.691	512	16.649	0.594	-59.057	56.155	562	16.628	0.509	-118.234	76.532
463	18.318	0.407	95.026	32.991	513	16.729	0.928	-57.300	64.302	563	18.714	0.465	-114.528	75.791
464	16.700	0.582	101.145	33.528	514	18.669	0.725	-63.987	54.755	564	18.990	0.695	7.357	76.583
465	19.020	0.624	-81.987	30.651	515	18.156	0.471	-50.864	65.626	565	19.416	0.282	8.813	74.268
466	18.555	0.895	76.491	31.021	516	20.088	-0.210	-59.515	70.800	566	17.681	0.806	-27.304	77.472
467	18.565	0.731	71.815	33.291	517	17.020	0.720	-45.870	67.791	567	18.874	0.011	-53.406	78.474
468	16.811	0.759	64.306	36.068	518	19.531	0.888	-61.249	71.494	568	18.729	1.114	-54.700	81.349
469	18.465	0.354	61.623	31.689	519	16.785	0.540	-61.668	76.532	569	19.317	0.851	-59.796	85.245
470	17.452	0.793	-171.309	31.383	520	18.482	0.700	103.517	51.891	570	16.519	0.600	16.198	80.406
471	19.470	0.558	-168.085	32.717	521	18.439	0.738	-70.583	52.411	571	17.276	0.761	19.496	83.798
472	17.387	0.678	-125.085	32.109	522	14.964	1.091	55.219	52.857	572	13.786	1.551	16.619	88.511
473	19.216	0.484	120.351	34.145	523	16.720	0.661	57.387	59.030	573	18.017	0.739	-141.785	80.385
474	18.860	0.730	-91.449	34.219	524	16.746	0.549	52.215	51.753	574	18.541	0.637	51.445	81.138
475	18.961	0.582	-92.934	38.381	525	19.230	0.367	68.257	52.981	575	18.528	0.537	66.315	81.474
476	18.460	0.504	-83.781	36.413	526	16.702	0.489	-96.030	56.477	576	19.810	0.699	70.213	80.070
477	18.338	0.646	-135.551	39.477	527	16.700	0.535	-68.500	61.838	577	17.180	0.873	62.630	81.866
478	18.436	0.213	108.457	37.160	528	19.265	0.567	-75.817	63.030	578	16.558	0.630	63.343	86.453
479	18.965	-0.050	96.966	41.083	529	18.606	0.160	-159.768	64.062	579	16.202	0.699	59.091	82.447
480	18.976	-0.560	52.589	42.715	530	18.224	0.734	-123.781	66.496	580	17.526	0.790	60.966	90.713
481	19.075	0.822	125.485	44.074	531	16.340	0.904	30.181	65.949	581	19.636	0.519	65.791	91.502
482	18.211	0.525	68.621	43.940	532	18.762	0.470	26.698	71.368	582	17.672	0.749	62.268	96.030
483	16.552	0.848	-161.147	44.362	533	16.709	0.519	36.013	71.600	583	16.932	0.819	71.030	91.309
484	16.905	0.830	-164.381	49.881	534	18.866	0.502	22.791	73.126	584	19.594	0.578	74.834	90.494
485	16.633	0.625	39.545	44.577	535	18.725	0.503	29.853	73.687	585	17.490	0.802	72.055	95.238
486	18.287	0.621	34.468	46.887	536	17.380	0.836	40.315	73.247	586	19.014	0.640	78.509	95.621
487	16.649	0.799	38.715	50.938	537	16.248	0.693	38.106	77.391	587	18.856	0.652	86.662	81.194
488	16.440	0.554	37.034	54.223	538	15.763	0.978	33.213	80.236	588	18.282	0.690	84.236	84.857
489	15.682	0.830	40.685	57.466	539	18.945	0.269	27.643	76.587	589	19.030	0.435	-164.470	82.426
490	17.847	0.601	59.868	44.309	540	19.300	0.465	46.223	72.389	590	18.673	0.539	-66.477	85.451
491	18.816	0.677	62.626	48.779	541	18.274	0.479	25.287	80.221	591	18.739	0.841	-69.266	88.045
492	16.657	0.669	82.319	44.843	542	17.382	0.729	28.147	63.117	592	19.861	0.663	-67.883	92.462
493	17.858	0.734	81.362	42.864	543	16.541	0.568	49.355	66.285	593	18.097	0.630	-72.268	95.887
494	17.270	0.777	-92.406	48.785	544	16.500	0.638	52.928	70.479	594	19.007	0.503	-72.962	92.674
495	18.191	0.561	74.930	49.257	545	18.247	0.625	-170.500	65.921	595	18.832	0.616	-75.438	94.581
496	18.011	0.830	76.943	54.870	546	19.039	0.544	-107.011	67.013	596	18.166	0.612	-112.428	87.287
497	18.792	0.512	80.157	60.823	547	16.597	0.874	-87.079	67.347	597	16.668	0.532	27.643	87.947
498	15.845	1.061	79.257	66.051	548	16.561	0.342	-90.515	74.087	598	18.774	0.517	124.066	89.136
499	18.515	0.592	83.979	70.611	549	17.314	0.815	-91.753	80.849	599	17.398	0.833	-27.177	90.723
500	18.825	0.698	78.191	73.349	550	18.599	0.700	108.623	68.334	600	16.530	0.551	-25.739	98.179
501	14.527	1.218	93.040	71.953	551	19.061	0.067	17.083	69.919	601	15.436	0.922	-25.781	106.768
502	16.745	0.625	77.421	66.900	552	16.431	0.700	-73.717	70.966	602	18.577	0.564	-26.094	103.217
503	17.262	0.794	-124.779	49.579	553	17.090	0.871	-80.955	74.755	603	16.484	0.646	92.234	91.221
504	18.713	0.562	-129.598	50.228	554	16.701	0.887	-72.389	76.796	604	18.146	0.669	85.887	92.245
505	17.039	0.829	-125.155	53.898	555	18.436	0.752	64.664	72.181	605	17.215	0.812	87.760	95.638
506	18.609	0.611	-82.906	50.183	556	18.474	0.685	-36.530	74.257	606	18.222	0.729	83.053	93.583
507	18.038	0.638	-45.466	50.783	557	19.579	0.108	-40.372	80.606	607	19.361	0.520	-88.868	91.866
508	18.180	0.721	-40.885	53.700	558	16.683	0.568	-44.651	79.385	608	18.184	0.753	-88.987	95.300
509	16.327	0.614	-49.002	57.462	559	18.604	0.563	-43.230	84.283	609	15.735	0.792	-85.789	100.832
510	16.570	0.630	-42.102	59.532	560	18.861	0.464	-36.719	85.668	610	17.847	0.744	-95.826	94.768
511	16.621	0.683	-58.413	59.394	561	18.358	0.768	142.302	76.466	611	18.038	0.707	-102.057	93.704

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
612	18.826	0.506	38.494	91.723	662	16.494	0.680	-92.515	114.328	712	19.272	0.511	116.457	145.968
613	17.185	0.817	43.045	94.128	663	14.816	1.078	-95.951	116.560	713	17.921	0.774	-99.815	148.206
614	19.879	0.454	35.860	96.626	664	17.475	0.780	-97.979	126.174	714	15.122	1.043	-51.881	147.768
615	19.122	0.429	39.581	96.745	665	17.457	0.792	-93.149	132.198	715	19.229	0.661	-57.498	154.489
616	17.216	0.772	46.487	99.996	666	18.272	0.688	-47.638	120.232	716	16.609	0.623	-59.198	160.536
617	18.981	0.579	43.068	104.211	667	18.397	0.565	-117.591	120.798	717	19.115	0.658	-147.166	148.430
618	18.569	0.736	38.770	107.302	668	18.867	0.630	-121.519	120.957	718	19.120	0.462	98.872	150.606
619	14.183	1.358	-154.745	92.568	669	17.785	0.251	23.747	121.123	720	18.078	0.687	79.434	150.979
620	18.733	0.705	-38.521	94.415	670	18.930	0.790	21.774	125.781	721	18.511	0.596	-31.302	152.200
621	18.590	0.728	3.581	96.432	671	19.190	0.495	-80.457	122.660	722	16.623	0.639	2.743	151.517
622	18.981	0.802	-43.877	99.751	672	16.325	0.964	3.847	121.791	723	16.536	0.641	139.034	153.453
623	19.453	0.598	56.806	100.066	673	16.086	0.879	4.330	123.540	724	18.353	0.772	133.355	154.138
624	16.719	0.637	118.043	99.821	674	17.703	0.756	6.060	119.366	725	17.170	0.805	-89.089	156.157
625	17.160	0.764	-144.783	101.319	675	17.987	0.741	130.674	123.238	726	19.444	0.554	-21.917	155.383
626	16.648	0.634	-144.812	100.721	676	19.317	0.421	-112.283	124.900	727	18.755	0.603	-22.826	159.332
627	18.633	0.678	-99.553	100.896	677	16.442	0.848	-106.757	126.945	728	19.312	0.621	112.379	155.785
628	18.991	0.706	-102.743	104.677	678	19.250	0.836	81.881	126.311	729	19.046	0.680	29.491	157.613
629	18.861	0.475	-100.394	105.513	679	18.468	0.686	39.751	127.864	730	16.363	0.913	46.926	157.000
630	16.654	0.572	-68.615	103.547	680	13.757	1.642	118.180	128.072	731	17.237	0.747	60.034	158.396
631	18.613	0.476	-35.857	108.272	681	18.916	0.625	49.577	128.270	732	18.178	0.677	75.057	165.417
632	19.123	0.531	-41.113	110.219	682	18.162	0.688	-57.851	130.383	733	18.607	0.662	81.996	165.574
633	19.178	0.526	-37.640	111.881	683	18.681	0.912	-57.832	132.194	734	18.034	0.745	60.355	167.840
634	18.222	0.705	-46.670	111.202	684	17.719	0.765	-62.630	132.855	735	18.171	0.741	56.347	168.757
635	19.236	0.448	-39.119	106.517	685	16.675	0.652	-62.966	138.096	736	15.715	0.916	-46.089	170.306
636	18.798	0.549	-39.355	103.413	686	19.411	0.597	-62.040	132.347	737	16.674	0.672	-43.047	172.198
637	16.694	0.851	69.506	103.991	687	17.568	0.789	-55.651	138.991	738	19.151	0.669	121.630	169.762
638	16.638	0.639	73.523	107.809	688	18.767	0.718	-62.447	144.609	739	18.331	0.670	-95.906	170.417
639	18.267	0.785	79.043	113.862	689	16.678	0.831	-74.619	135.038	740	18.186	0.628	-97.196	173.217
640	16.446	0.632	76.547	121.215	690	18.631	0.647	-50.966	135.196	741	18.645	0.741	-64.330	171.415
641	16.697	0.827	-160.262	105.247	691	18.727	0.647	-47.640	132.104	742	18.329	0.774	112.738	171.977
642	18.613	0.704	-166.719	107.332	692	17.895	0.710	-42.128	130.460	743	19.025	0.685	108.783	176.785
643	18.754	0.359	61.360	105.628	693	16.593	0.458	-31.804	130.783	744	16.624	0.588	-160.802	175.517
644	19.174	0.537	119.547	108.251	694	18.501	0.617	-147.262	133.249	745	16.587	0.898	12.611	179.543
645	16.162	0.898	118.860	115.194	695	18.698	0.550	60.794	132.334	746	16.704	0.870	9.566	184.087
646	15.757	0.856	111.128	112.449	696	18.515	0.637	4.440	134.143	747	17.590	0.762	62.302	178.877
647	19.029	0.682	103.600	115.383	697	16.719	0.621	-12.723	134.785	748	18.711	0.872	62.632	180.534
648	18.220	0.747	100.032	109.651	698	18.494	0.695	16.070	134.709	749	17.165	0.803	-110.611	180.066
649	19.123	0.505	97.740	114.504	699	18.992	0.689	17.749	139.102	750	19.307	0.638	-109.209	183.357
650	18.093	0.729	98.174	120.370	700	19.349	0.457	-115.753	137.779	751	19.660	0.474	-112.494	176.921
651	18.021	0.783	138.019	109.030	701	19.246	0.610	11.964	140.049	752	16.693	0.636	-30.140	180.517
652	19.187	0.458	133.530	110.809	702	17.331	0.702	7.623	143.389	753	16.641	0.626	-128.974	180.491
653	19.696	0.482	19.147	109.462	703	16.694	0.866	-92.843	142.094	754	18.964	0.523	87.445	181.091
654	19.250	0.620	18.874	112.434	704	18.859	0.604	29.383	142.079	755	18.618	0.693	-141.481	183.102
655	16.602	0.674	13.915	114.198	705	17.847	0.760	31.987	146.009	756	19.587	0.479	-142.457	185.704
656	16.593	0.886	15.317	122.062	706	18.755	0.594	35.626	147.591	757	18.489	0.625	-39.245	182.574
657	17.650	0.739	-105.211	113.049	707	16.593	0.669	53.791	142.006	758	16.371	0.888	102.289	183.389
658	19.542	0.649	-103.811	110.491	708	18.745	0.685	71.060	141.619	759	18.980	0.499	-107.496	184.717
659	17.466	0.776	-79.570	113.802	709	18.043	0.778	91.879	144.823	760	16.467	0.702	-18.802	186.430
660	16.532	0.859	-73.002	114.896	710	16.704	0.573	-171.511	148.384	761	17.560	0.784	43.504	185.955
661	19.187	0.634	-68.506	116.211	711	16.631	0.627	-172.034	145.823	762	16.527	0.869	68.287	189.181

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
763	16.672	0.631	63.109	191.347	814	16.573	0.886	26.409	13.451	864	18.534	0.917	4.547	-54.081
764	16.585	0.866	-90.930	194.621	815	18.841	0.761	-24.168	-104.136	865	19.101	0.377	1.151	-53.823
765	19.311	0.647	-98.913	201.438	816	18.791	0.663	-22.260	-99.864	866	17.690	0.579	-32.060	-50.502
766	18.854	0.459	14.730	201.947	817	18.328	0.808	-23.211	-96.981	867	14.578	1.041	-29.428	-44.362
767	16.649	0.649	-133.153	202.883	818	16.939	0.841	-16.240	-101.968	868	18.460	0.669	-36.119	-41.296
768	16.550	0.638	3.309	203.443	819	18.690	0.170	-9.157	-97.334	869	16.344	0.847	-26.560	-45.591
769	19.390	0.452	7.783	203.545	820	19.491	0.387	-5.732	-99.991	870	16.489	0.885	-42.385	-45.100
770	19.009	0.584	100.328	206.826	821	16.698	0.880	-16.245	-93.617	871	16.698	0.112	-49.147	-43.547
771	18.625	0.696	-95.189	208.319	822	17.724	0.718	-8.472	-90.632	872	18.377	0.895	-44.594	-40.326
772	18.022	0.742	-77.870	211.747	823	18.127	0.606	-15.060	-95.679	873	18.900	0.664	-41.715	-38.281
773	18.569	0.696	-74.619	213.279	824	19.085	0.437	-54.221	-97.453	874	16.094	0.861	-52.700	-40.004
774	19.039	0.691	111.674	212.049	825	15.739	0.962	-49.579	-97.204	875	17.959	0.794	25.879	-39.966
775	19.221	0.513	84.911	215.145	826	17.539	0.884	-42.709	-96.002	876	16.829	0.786	19.045	-38.504
776	19.290	0.406	27.653	215.577	827	16.824	0.874	-46.157	-90.400	877	17.374	0.491	25.449	-37.172
777	17.468	0.776	48.813	-216.917	828	18.510	0.433	-37.496	-95.683	878	17.904	0.779	20.534	-35.391
778	19.255	0.611	-110.096	218.970	829	18.618	0.559	-51.302	-87.111	879	16.269	0.880	29.926	-35.323
779	19.517	0.446	-43.113	219.015	830	17.283	0.861	-55.617	-84.819	880	16.542	0.917	34.626	-32.432
780	18.783	0.533	76.438	219.398	831	17.283	0.771	-62.043	-86.155	881	18.182	0.864	30.745	-28.826
781	17.487	0.021	-57.991	219.581	832	18.271	0.700	-62.962	-82.243	882	16.733	0.601	22.802	-31.651
782	18.781	0.709	-58.113	222.417	833	19.207	0.779	-65.619	-79.866	883	16.446	0.770	35.434	-40.770
783	18.285	0.300	126.643	225.917	834	16.340	0.878	-61.609	-96.743	884	16.757	0.866	-55.600	-28.883
784	18.794	0.708	-156.904	227.160	835	14.798	1.061	-29.279	-93.698	885	15.681	0.999	-49.960	-27.223
785	18.618	0.721	-111.164	227.798	836	15.388	1.023	-22.947	-90.794	886	16.900	0.378	-57.228	-25.485
786	16.689	0.688	41.087	233.209	837	16.734	0.620	-34.455	-91.079	887	16.798	0.817	-45.717	-24.162
787	16.956	0.822	-63.383	234.887	838	18.252	0.739	-26.074	-81.189	888	15.739	0.797	-39.743	-17.430
788	19.719	0.636	-60.874	234.500	839	15.896	0.378	-31.564	-78.917	889	17.548	1.000	-45.770	-11.621
789	18.614	0.687	142.151	235.151	840	13.861	1.441	-22.345	-74.500	890	15.896	0.387	-48.677	-6.853
790	15.832	0.918	23.921	-75.321	841	16.696	0.816	-27.685	-66.702	891	16.569	0.659	-36.206	-14.702
791	17.813	0.605	17.274	-70.077	842	16.631	0.611	-19.706	-65.532	892	16.918	0.125	-36.600	-11.764
792	17.608	0.673	22.232	-66.334	843	17.783	0.775	-15.572	-58.670	893	14.962	0.875	40.730	-25.283
793	18.529	0.556	15.868	-65.102	844	16.218	0.802	-33.119	-89.430	894	16.509	0.631	38.830	-21.168
794	15.961	0.951	32.357	-65.957	845	16.709	0.516	-33.004	-77.702	895	16.709	0.594	39.736	-15.013
795	14.620	1.096	27.813	-62.785	846	19.125	0.791	-0.368	-91.319	896	18.146	0.592	40.055	-9.715
796	17.498	0.877	41.013	-63.585	847	18.919	0.707	-3.932	-89.664	897	18.478	-0.033	38.102	-5.104
797	16.866	0.720	31.417	-57.577	848	19.063	0.501	-1.664	-94.383	898	16.326	0.779	39.579	-28.560
798	16.910	0.371	43.872	-64.543	849	16.843	0.836	-2.928	-57.411	899	18.797	0.457	-88.066	-20.549
799	17.310	0.660	33.566	-51.291	850	16.705	0.610	-5.402	-55.255	900	19.337	0.428	-85.717	-19.060
800	18.322	0.603	42.047	-51.551	851	17.058	0.836	-4.683	-47.679	901	18.700	0.457	-88.051	-15.974
801	16.409	0.747	25.402	-72.832	852	16.420	0.579	-6.411	-42.960	902	16.651	0.626	-78.455	-14.362
802	16.075	0.879	25.670	-50.228	853	17.699	0.724	-12.447	-40.134	903	19.447	-0.015	-83.713	-12.904
803	15.132	1.086	37.894	-70.019	854	16.643	0.696	-9.047	-37.874	904	17.184	0.671	-74.551	-13.353
804	16.800	0.812	25.698	-57.153	855	16.974	0.781	-8.953	-47.645	905	18.098	0.894	-79.802	-10.434
805	17.285	0.720	36.138	16.440	856	15.834	0.860	17.200	-56.526	907	14.147	1.237	49.385	-8.121
806	17.292	0.859	39.696	25.211	857	18.016	0.667	11.926	-54.883	909	14.997	1.080	49.094	-1.060
808	18.346	0.422	31.849	26.609	858	16.610	0.848	11.583	-51.494	910	14.868	1.118	59.483	-0.323
809	17.104	0.694	24.366	29.147	859	16.284	0.624	15.323	-49.930	911	16.325	0.874	63.51	8.511
810	16.492	0.694	22.447	32.223	860	16.215	0.680	16.594	-46.074	912	14.890	1.102	72.385	4.709
811	16.476	0.562	14.734	33.183	861	17.358	0.502	10.236	-43.634	913	18.121	0.820	71.753	-0.151
812	15.451	1.165	15.800	37.887	862	16.357	0.764	7.317	-41.019	914	15.085	1.020	54.889	10.294
813	17.733	-0.065	31.123	15.400	863	16.474	0.886	18.887	-44.100	915	17.577	0.793	67.791	10.343

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
916	19.015	0.634	64.934	15.160	969	17.803	0.527	8.732	50.083	1022	17.331	0.742	-67.070	-4.600
917	18.285	0.390	49.294	13.100	970	16.640	0.115	20.466	45.483	1023	17.392	0.638	-69.266	-9.894
918	18.660	0.472	45.594	13.853	971	18.283	0.845	12.696	56.709	1024	16.779	0.562	-70.747	-0.168
919	17.589	0.417	49.836	17.611	972	17.397	0.733	25.487	51.453	1025	18.683	0.699	-66.296	1.885
920	16.772	0.612	55.991	20.887	973	17.718	0.771	11.336	60.723	1026	15.195	1.083	-72.468	5.330
921	16.747	0.633	76.923	21.794	974	16.897	0.658	22.189	56.689	1027	15.791	0.934	-61.270	9.885
922	16.713	0.594	51.847	22.972	975	15.606	0.990	27.985	56.794	1028	15.510	1.008	-58.177	12.566
923	16.783	0.649	84.398	20.179	976	16.279	0.618	19.121	47.219	1029	16.478	0.698	-58.511	15.385
924	16.560	0.652	52.100	7.430	977	16.578	0.477	-52.596	46.836	1071	19.587	0.505	114.036	21.406
925	16.584	0.219	50.900	-11.134	978	18.353	0.622	-30.911	47.651	1073	20.281	0.538	-161.500	22.389
926	17.118	0.137	74.787	3.717	979	17.733	0.722	-9.843	54.796	1074	20.573	0.659	-160.494	25.094
927	17.480	0.178	63.026	-2.491	980	16.670	0.677	-13.345	60.245	1075	20.423	0.429	-157.266	24.240
928	19.103	0.985	-67.715	12.117	981	16.720	0.689	-8.921	62.983	1076	19.818	0.476	-177.721	28.747
929	16.691	0.592	-67.085	17.898	982	14.903	1.087	-4.079	67.036	1078	19.553	0.518	-177.960	33.036
930	17.521	0.742	-61.770	19.513	983	16.288	0.731	-4.087	59.602	1079	19.698	0.457	-170.840	36.285
931	17.472	0.980	-57.891	21.855	984	14.722	1.109	-4.372	75.813	1080	19.458	0.526	-169.823	24.936
932	16.730	0.856	-85.481	15.015	985	17.507	0.756	1.000	61.764	1083	19.517	0.510	-189.670	34.085
933	16.635	0.652	-77.904	16.800	986	19.329	0.769	2.862	72.577	1084	19.335	0.490	-158.247	33.174
934	18.852	0.502	-87.034	20.819	988	17.036	0.892	-3.613	69.566	1088	19.578	0.550	-143.430	37.715
935	16.493	0.569	-75.053	19.789	989	17.899	0.749	-2.449	63.866	1089	19.438	0.684	-190.981	43.455
936	16.451	0.836	-43.979	22.679	990	16.505	0.302	-32.696	55.585	1090	18.508	0.719	-190.523	47.602
937	15.803	0.913	-40.045	26.909	992	17.670	0.908	-30.513	63.417	1091	19.641	0.559	-184.211	48.238
938	16.428	0.455	-48.328	20.783	993	16.622	0.594	-22.887	60.253	1092	20.146	0.550	108.983	52.570
939	17.191	0.764	-44.621	30.174	994	18.576	0.914	-29.345	70.560	1094	19.875	0.508	103.143	57.506
940	14.566	1.014	-34.432	30.526	995	14.060	1.389	-15.487	77.215	1096	19.444	0.619	-148.906	48.557
941	17.278	0.583	-51.089	24.191	996	13.664	1.604	-11.468	92.745	1097	20.332	0.485	-149.119	54.074
943	16.628	0.494	-50.704	28.898	997	14.628	1.190	-7.600	100.706	1098	17.374	-0.017	-175.212	55.831
944	16.844	0.760	-37.568	34.070	998	14.696	1.125	-2.860	90.055	1099	19.436	0.542	-136.853	57.715
945	15.123	1.016	-28.387	35.236	999	16.990	0.829	-13.002	108.411	1100	19.471	0.627	-133.872	62.096
946	17.301	0.724	-31.804	40.077	1000	16.512	0.713	-7.789	110.385	1101	19.420	0.468	-130.477	66.043
947	15.668	0.841	-22.855	34.534	1001	17.457	0.736	-1.170	85.066	1102	18.152	0.759	-123.713	66.023
948	16.162	1.539	-56.802	34.400	1002	15.150	1.087	-2.800	113.134	1103	19.530	0.462	-131.926	75.983
949	15.021	0.904	-54.511	38.051	1003	17.400	0.714	3.117	82.779	1104	19.245	0.453	-118.991	68.794
950	17.666	0.483	-36.091	16.360	1004	14.991	1.105	4.985	109.223	1105	20.303	0.401	-130.949	79.974
951	17.336	0.352	-33.302	13.709	1005	18.124	0.712	-0.151	107.377	1107	20.359	0.578	-122.709	80.413
952	16.229	0.846	-33.028	33.340	1006	18.049	0.664	5.545	86.372	1108	19.875	0.467	-127.572	85.353
953	16.225	0.919	-27.655	37.989	1007	18.085	0.721	10.694	100.172	1109	18.726	0.488	-116.143	75.494
954	16.437	0.659	-41.262	21.989	1008	16.748	0.543	15.402	101.496	1110	19.382	0.212	-110.832	74.611
955	19.067	0.445	-74.481	31.523	1009	16.550	0.931	-8.989	103.853	1111	19.571	0.463	-113.528	76.091
956	15.421	0.714	-68.772	36.526	1010	17.707	0.478	-17.236	69.417	1112	19.364	0.499	-150.685	61.377
957	17.517	0.694	-73.602	37.796	1012	16.406	1.100	-12.740	78.581	1113	19.880	0.441	-154.760	66.230
958	16.597	0.602	-64.740	40.691	1013	15.917	0.880	-61.583	-39.594	1114	20.215	0.466	-147.811	65.634
959	13.826	1.541	-9.896	36.089	1014	17.257	0.771	-65.074	-35.389	1115	20.219	0.427	-150.994	66.970
960	16.006	0.661	-13.787	44.602	1015	18.732	0.568	-60.534	-33.443	1116	20.674	0.539	-152.606	69.281
961	18.088	0.642	-20.221	43.257	1016	17.304	0.681	-64.519	-39.426	1118	19.273	0.513	-142.213	68.023
963	17.857	0.571	-22.091	46.094	1017	15.658	0.863	-64.745	-26.791	1119	20.444	0.538	-164.509	64.864
964	15.697	0.886	-6.826	33.132	1018	15.981	0.902	-63.683	-18.772	1121	19.991	0.420	-117.306	61.968
966	15.264	0.969	0.011	41.979	1019	16.506	0.596	-60.211	-15.149	1122	20.393	0.421	-114.589	63.138
967	16.370	0.641	0.877	46.889	1020	15.170	1.051	-63.632	-9.504	1123	19.791	0.418	-110.383	64.053
968	17.958	0.844	13.091	47.445	1021	14.549	1.239	-58.462	-7.653	1124	19.211	0.630	-105.828	66.613

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
1125	19.753	0.447	-108.168	67.091	1194	20.713	0.010	-19.987	128.702	1257	18.970	-0.491	118.189	145.606
1126	19.404	0.583	108.572	64.281	1195	19.512	0.486	-15.160	121.502	1258	19.822	0.527	-144.166	146.130
1128	19.890	0.577	114.498	69.217	1196	20.313	0.477	-170.717	121.826	1260	20.167	0.449	-109.411	146.751
1129	18.214	0.742	-184.170	66.379	1197	20.661	0.515	-146.183	122.398	1261	19.983	0.486	-12.709	146.787
1131	16.668	0.655	-200.233	70.949	1198	20.268	0.495	-61.253	122.155	1262	20.087	0.408	-12.113	152.060
1132	18.413	0.584	-201.434	79.326	1199	19.337	0.434	32.091	123.196	1263	20.079	0.509	104.757	147.813
1133	19.428	0.438	-158.504	73.847	1200	19.800	0.441	41.700	123.481	1267	20.361	0.430	-124.917	148.660
1134	20.400	0.485	-161.543	77.572	1203	19.587	0.358	48.817	133.281	1268	20.048	0.434	-124.738	152.323
1136	18.996	0.709	-189.300	80.472	1204	20.197	0.425	-169.230	130.051	1269	19.639	0.468	-124.855	157.621
1137	19.504	0.578	-184.387	79.596	1205	20.471	0.472	-171.626	133.757	1270	19.941	0.432	-78.481	149.230
1138	20.027	0.441	-175.723	79.334	1206	20.359	0.457	-167.857	134.387	1271	19.833	0.471	-79.138	153.540
1139	20.312	0.455	-173.768	80.498	1207	20.143	0.503	-161.815	131.066	1272	19.721	0.543	-84.051	154.985
1140	19.392	0.540	113.974	87.828	1208	20.109	0.409	-137.777	130.249	1274	20.900	0.432	-93.570	157.674
1141	20.571	0.608	-174.132	91.334	1209	19.180	0.423	10.909	130.621	1275	19.597	0.523	-94.387	159.915
1142	20.205	0.476	-192.083	91.204	1215	19.950	0.459	13.200	144.996	1276	20.385	0.477	-97.766	157.038
1143	19.921	0.509	112.715	94.389	1217	20.054	0.410	5.804	158.138	1277	20.173	0.552	-98.204	163.143
1144	19.261	0.492	106.855	95.555	1218	19.510	0.503	-2.451	149.611	1278	19.670	0.464	-93.943	166.785
1145	20.055	0.464	104.466	101.568	1219	20.166	0.488	2.451	160.804	1282	19.602	0.393	73.826	153.385
1146	19.768	0.466	-128.162	97.085	1220	20.026	0.448	-0.038	163.451	1283	19.775	0.513	85.485	154.494
1147	19.733	0.424	-125.500	96.989	1221	20.942	0.361	1.715	164.894	1284	19.803	0.439	71.117	155.021
1148	19.280	0.643	-130.740	104.385	1222	19.421	0.451	-5.545	159.768	1285	20.085	0.379	73.653	158.009
1149	19.548	0.447	-132.249	110.917	1223	19.613	0.509	-9.732	165.460	1286	19.650	0.446	91.560	153.347
1150	19.492	0.416	-117.351	98.079	1224	19.773	0.455	-186.300	131.906	1290	20.126	0.405	-21.662	151.455
1151	20.180	0.462	-176.787	99.613	1225	19.451	0.549	-189.006	138.226	1291	19.969	0.499	-19.283	154.360
1152	19.935	0.489	96.085	101.083	1226	18.507	0.700	-146.770	132.683	1294	19.946	0.411	-186.279	153.032
1153	19.618	0.521	112.677	103.994	1227	19.307	0.427	-151.096	134.400	1295	20.341	0.532	16.128	153.091
1156	19.993	0.518	108.413	119.336	1228	20.127	0.417	-147.626	137.006	1296	19.698	0.561	15.421	159.164
1161	19.897	0.458	92.464	121.157	1229	19.588	0.551	-120.794	132.509	1297	15.845	0.945	-199.202	154.330
1162	18.736	0.599	-54.600	105.243	1230	20.114	0.387	-121.785	137.715	1298	19.854	0.477	35.143	155.011
1163	19.863	0.498	-50.034	105.472	1232	20.595	0.498	-112.951	140.006	1300	19.799	0.468	-144.560	156.119
1166	19.693	0.454	-56.055	116.866	1233	20.632	0.385	-116.832	142.704	1302	20.245	0.467	63.834	160.915
1167	19.797	0.417	-51.623	115.398	1234	19.815	0.432	98.034	134.496	1303	19.810	0.518	67.383	162.587
1171	18.528	0.441	-36.140	107.757	1235	19.778	0.454	101.155	136.238	1306	20.491	0.556	-184.217	159.472
1172	20.189	0.446	-121.385	106.323	1236	20.091	0.433	107.602	135.945	1307	19.108	0.590	-42.060	159.221
1174	19.919	0.410	-140.702	109.891	1237	19.766	0.436	104.313	137.900	1308	19.882	0.430	-48.181	159.000
1175	19.434	0.468	-181.096	111.372	1238	20.571	0.741	-38.317	136.689	1309	19.631	0.514	-32.387	161.204
1176	19.150	0.445	-123.755	112.591	1239	19.890	0.492	88.215	136.068	1310	20.291	0.526	-28.617	165.419
1177	19.828	0.430	40.657	116.266	1240	20.114	0.510	91.262	136.147	1311	20.542	0.549	-149.083	162.370
1178	20.005	0.471	39.840	113.228	1241	19.561	0.518	87.734	139.430	1312	20.141	0.394	-153.166	166.617
1179	19.310	0.510	54.243	113.223	1243	19.779	0.440	-105.338	138.206	1313	20.237	0.433	-107.145	162.340
1180	19.590	0.491	-177.323	117.653	1244	19.861	0.466	-159.357	139.087	1314	19.845	0.516	92.568	162.187
1181	19.402	0.447	-190.504	118.862	1245	19.374	0.424	-155.634	144.351	1315	20.132	0.537	-138.623	163.515
1185	15.537	0.930	4.215	122.526	1246	19.480	0.532	-179.534	139.964	1316	19.746	0.436	-135.587	165.532
1186	20.008	0.523	-4.947	123.126	1249	20.213	0.528	-175.634	153.719	1317	19.448	0.566	-132.355	168.457
1187	19.978	0.455	-2.353	130.421	1250	20.234	0.446	-130.274	140.585	1318	20.544	0.386	-82.234	164.551
1188	19.281	0.403	-7.723	122.857	1251	19.898	0.403	-134.053	143.187	1319	20.695	0.641	-82.506	167.930
1189	20.080	0.546	-7.183	132.532	1252	20.537	0.657	-25.132	145.183	1320	19.628	0.479	-77.111	169.819
1190	19.632	0.444	-10.319	126.991	1253	19.549	0.489	-21.496	139.321	1321	20.537	0.739	-80.196	173.415
1192	19.265	0.365	-14.504	128.523	1254	19.982	0.494	-36.117	142.053	1322	19.622	0.542	-181.240	165.062
1193	20.278	0.260	-17.172	131.181	1255	19.868	0.631	-41.938	143.113	1323	20.588	0.410	-183.451	169.191

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
1324	20.168	0.447	-176.666	166.032	1398	20.736	0.411	57.162	191.219	1463	19.662	0.470	-31.315	221.657
1328	19.495	0.471	94.185	184.251	1399	19.632	0.461	-5.594	190.360	1465	19.487	0.612	76.196	222.311
1329	20.071	0.493	99.385	187.838	1400	20.124	0.437	-8.183	194.313	1466	19.826	0.455	71.517	226.172
1330	19.902	0.448	90.828	183.202	1401	20.272	0.367	-9.368	199.883	1467	19.718	0.488	68.013	221.611
1332	20.005	0.400	89.117	177.374	1402	19.464	0.428	-76.672	194.043	1468	20.193	0.484	-164.632	218.857
1333	20.243	0.516	-162.298	166.113	1403	19.978	0.462	-58.306	194.194	1469	19.608	0.505	59.772	220.517
1335	20.098	0.399	-151.183	178.257	1404	20.133	0.597	4.553	195.721	1470	19.930	0.393	-131.953	221.626
1336	19.242	0.551	-157.174	174.174	1406	19.785	0.489	-0.747	208.936	1471	20.486	0.434	-93.483	221.338
1337	20.042	0.474	31.153	168.249	1408	19.615	0.467	48.113	194.109	1472	19.900	0.475	-68.619	222.804
1338	19.911	0.531	29.006	174.083	1409	19.983	0.503	94.315	194.740	1473	20.202	0.494	3.623	223.257
1339	19.903	0.462	33.921	174.181	1410	20.007	0.463	100.840	196.068	1474	19.535	0.452	-120.119	226.621
1340	19.534	0.614	35.036	177.221	1411	19.407	0.409	-198.660	196.591	1475	20.010	0.584	33.891	226.668
1341	19.726	0.507	37.987	177.240	1412	19.510	0.589	25.981	197.249	1476	19.989	0.425	38.394	227.234
1342	19.889	0.537	-107.957	170.138	1413	19.561	0.516	30.402	202.917	1480	19.569	0.111	107.138	227.245
1345	19.404	0.430	-36.849	179.255	1414	19.837	0.427	26.106	207.283	1481	20.012	0.511	-171.945	236.196
1348	19.659	0.532	-24.747	186.668	1415	20.056	0.393	24.691	211.745	1482	19.483	0.511	-99.387	229.196
1350	19.587	0.617	-23.338	189.670	1417	19.585	0.630	20.668	217.177	1483	20.511	0.330	-101.991	231.166
1351	19.331	0.445	-20.502	176.585	1418	20.370	0.377	-105.862	198.296	1484	20.457	0.648	-40.926	231.964
1352	19.444	0.421	-187.668	172.162	1419	20.261	0.455	-106.628	202.751	1485	19.625	0.472	-146.755	233.664
1353	19.395	0.455	13.630	172.534	1420	19.897	0.449	-32.928	198.521	1486	19.904	0.447	-135.330	233.494
1356	20.096	0.557	7.849	176.126	1421	20.327	0.505	-36.426	199.802	1487	19.642	0.476	-31.106	233.643
1357	19.999	0.585	2.664	175.951	1422	20.360	0.409	-152.666	199.121	1488	20.171	-0.012	-81.174	233.589
1358	19.847	0.497	20.879	172.028	1423	20.373	0.437	-147.496	199.930	1490	19.879	0.415	-18.789	236.100
1359	19.090	0.613	-10.913	173.381	1424	19.896	0.449	-156.008	202.636	1491	20.211	0.513	-195.762	237.032
1360	19.665	0.440	-5.026	176.100	1425	20.211	0.600	35.730	199.111	1492	17.534	0.695	-191.579	239.860
1361	19.918	0.374	-199.609	175.604	1426	19.847	0.527	-140.038	199.651	1493	20.204	0.574	-183.632	241.855
1362	19.747	0.483	73.121	176.374	1428	20.405	0.533	-67.277	200.728	1495	20.340	0.494	87.243	237.506
1363	20.023	0.478	48.721	177.226	1429	19.212	0.659	-70.700	205.800	1496	20.216	0.642	110.857	239.060
1366	19.851	0.497	-132.485	184.468	1430	20.180	0.510	-66.068	206.215	1497	20.363	0.544	115.749	241.194
1369	19.315	0.513	-68.455	182.004	1432	20.065	0.592	-67.277	214.789	1498	19.587	0.585	-70.228	241.223
1370	20.258	0.395	-63.230	183.315	1434	19.474	0.559	16.668	200.619	1499	20.411	0.462	-74.396	245.023
1371	19.749	0.392	-70.870	186.651	1436	19.495	0.681	-77.570	202.262	1500	20.091	0.474	-70.885	249.351
1374	19.652	0.430	-96.345	184.566	1437	20.563	0.158	-81.572	202.587	1501	19.903	0.442	-7.926	241.100
1375	19.537	0.622	-95.747	189.079	1438	20.345	0.473	-185.619	202.698	1502	20.381	0.510	67.296	240.883
1376	19.617	0.474	-95.600	192.098	1439	19.470	0.459	93.534	203.809	1503	19.853	0.545	92.589	241.385
1378	19.817	0.457	-90.753	187.070	1441	20.410	0.404	96.857	211.630	1504	19.363	0.676	-124.981	245.294
1379	20.015	0.642	-84.494	194.711	1442	19.934	0.431	-32.751	206.806	1505	20.363	0.507	-38.134	242.066
1380	19.484	0.529	-98.251	200.051	1443	20.414	0.533	-8.098	204.655	1506	19.698	0.472	-30.394	242.583
1381	19.486	0.578	-99.472	202.511	1444	21.910	0.493	-5.121	208.045	1507	19.836	0.415	16.102	241.857
1383	19.252	0.507	-95.389	212.547	1445	20.110	0.360	-8.021	207.249	1508	20.160	0.379	19.796	242.238
1384	19.896	0.486	-88.251	211.866	1446	20.016	0.510	110.119	207.409	1509	20.257	0.492	14.168	245.274
1385	19.771	0.468	-87.347	215.283	1448	19.470	0.539	-59.319	212.013	1510	19.968	0.391	-94.279	245.291
1386	19.482	0.469	-1.219	183.945	1449	20.346	0.402	-53.964	214.513	1511	20.786	0.336	-79.936	247.834
1388	19.965	0.501	35.062	186.370	1452	19.605	0.460	6.219	213.206	1512	20.125	0.378	81.611	248.689
1390	19.815	0.465	-150.170	188.760	1453	20.354	0.429	8.721	216.115	1513	19.690	0.562	87.285	250.098
1391	19.924	0.400	23.617	189.253	1454	19.866	0.455	-105.732	214.921	1514	18.026	0.719	-20.483	252.460
1392	19.891	0.436	19.413	192.740	1458	20.821	0.472	49.694	221.502	1515	16.041	0.928	-28.117	257.064
1395	20.202	0.570	68.772	196.143	1460	20.390	0.431	-46.879	221.234	1516	19.999	0.393	-33.998	259.304
1396	19.950	0.491	55.209	193.196	1461	19.691	0.458	-29.268	218.045	1517	20.291	0.435	-37.936	263.321
1397	19.338	0.664	58.762	199.251	1462	20.437	0.561	-25.983	218.568	1518	19.706	0.508	-40.540	261.279

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
1519	19.365	0.572	-1.340	253.455	1569	19.798	0.530	-40.823	300.430	1619	20.355	0.400	-90.957	391.004
1520	17.733	0.785	95.604	255.740	1570	20.174	0.461	-120.202	301.334	1620	19.759	0.369	95.853	390.894
1521	20.286	0.406	90.117	257.800	1571	16.465	0.573	-190.306	302.834	1621	18.312	0.765	-66.181	394.549
1522	19.916	0.478	102.630	258.047	1572	19.422	0.572	-189.170	309.781	1622	20.183	0.485	-67.070	401.932
1523	17.683	0.766	105.160	266.579	1573	19.711	0.472	-26.857	303.340	1623	19.951	0.424	-178.128	402.447
1524	19.967	0.453	98.302	265.904	1574	20.104	0.387	32.668	303.185	1624	20.296	0.467	-112.928	403.889
1525	20.280	0.483	-88.043	256.802	1575	20.358	0.449	90.532	302.981	1625	19.980	0.413	38.021	405.451
1526	20.341	0.500	10.017	256.664	1576	17.992	0.741	-100.979	304.917	1626	19.649	0.513	-194.123	410.126
1527	19.987	0.458	13.964	260.145	1577	20.024	0.458	44.085	304.840	1627	20.348	0.389	47.681	416.228
1528	19.537	0.504	42.081	259.626	1578	20.124	0.372	-78.332	308.466	1628	19.741	0.454	42.553	416.226
1529	17.147	0.805	36.249	262.883	1579	19.532	0.404	-118.217	309.740	1629	16.699	0.610	43.891	424.643
1530	20.373	0.481	44.462	263.100	1580	20.234	0.472	-59.266	308.991	1630	20.186	0.429	-201.149	416.596
1531	19.747	0.508	35.521	271.140	1581	19.621	0.516	39.321	311.336	1631	20.178	1.317	62.509	417.364
1532	19.996	0.514	-194.315	260.445	1582	19.865	0.472	40.723	314.055	1632	19.754	0.480	-74.717	423.817
1533	17.022	0.809	-197.891	268.596	1583	19.808	0.444	57.623	315.600	1633	20.082	0.371	56.949	423.440
1534	16.534	0.666	-119.436	260.304	1584	20.397	0.418	-33.060	318.547	1634	15.624	0.972	-162.317	429.357
1535	19.798	0.485	-11.313	264.821	1585	16.568	0.588	-127.266	319.000	1635	19.440	0.451	-122.693	447.028
1536	20.244	0.493	1.960	263.751	1586	19.798	0.439	-132.594	321.094	1636	20.292	0.405	18.013	451.017
1537	19.834	0.380	-185.896	265.498	1587	19.640	0.502	-55.991	319.957	1637	20.237	0.354	-76.553	457.670
1538	20.354	0.409	25.530	265.415	1588	19.836	0.535	19.711	321.281	1638	17.830	0.718	-116.343	471.506
1539	19.666	0.492	-61.491	268.128	1589	19.315	0.496	-199.036	323.502	1639	18.804	1.405	8.374	488.296
1540	20.253	0.598	19.655	270.191	1590	19.441	0.515	-146.915	323.998	1640	20.132	0.419	-194.232	495.694
1541	19.435	0.579	-40.170	271.094	1591	19.613	0.523	-24.413	326.791	1641	19.832	0.382	-152.294	505.583
1542	19.948	0.418	-36.011	273.300	1592	19.649	0.444	-103.615	327.489	1642	19.114	0.652	-163.347	508.649
1543	20.228	0.474	-15.840	271.730	1593	18.606	0.693	59.921	335.436	1643	18.801	0.658	-160.762	510.574
1544	20.114	0.426	8.926	272.862	1594	19.490	0.508	-129.019	336.049	1644	19.948	0.414	-18.053	511.451
1545	19.725	0.552	-71.491	273.585	1595	17.676	0.780	-24.289	337.602	1645	19.572	0.503	-185.604	515.515
1546	20.065	0.439	-126.851	275.068	1596	20.107	0.421	81.474	338.923	1646	19.497	0.521	-85.777	521.396
1547	20.253	0.531	-87.574	275.149	1597	17.091	0.774	-198.423	342.847	1647	16.707	0.537	81.813	524.883
1548	17.656	1.403	-171.970	276.268	1598	20.089	0.388	25.640	342.496	1648	19.864	0.439	-141.236	74.902
1549	19.800	0.457	23.909	276.421	1599	16.636	0.880	-12.777	348.036	1649	19.764	0.426	-145.634	77.745
1550	19.859	0.507	28.802	278.151	1600	17.494	0.766	35.057	347.594	1651	20.070	0.486	-148.317	81.064
1551	17.906	0.746	20.287	281.270	1601	19.660	0.493	57.164	349.230	1652	19.662	0.485	-136.032	81.674
1552	20.174	0.479	23.128	287.696	1602	20.212	0.498	-114.677	350.440	1653	20.000	0.487	-146.940	84.951
1553	18.899	0.736	69.700	276.526	1603	19.942	0.442	-186.706	352.266	1655	19.690	0.568	-144.000	93.640
1554	19.752	0.499	65.102	282.313	1604	19.290	0.647	94.294	357.009	1656	19.847	0.507	-165.630	97.172
1555	19.894	0.497	36.283	277.202	1605	19.628	0.537	-72.828	360.600	1657	20.834	0.550	-162.000	98.100
1556	19.552	0.512	-144.783	280.330	1606	19.482	0.568	38.557	360.343	1660	20.353	0.550	-156.851	83.391
1557	20.367	0.502	-38.794	281.338	1607	19.620	0.498	5.023	362.017	1661	19.788	0.431	-138.309	97.134
1558	19.470	0.926	-45.700	285.726	1608	19.642	0.510	-164.883	364.551	1662	19.770	0.441	-138.091	91.817
1559	19.003	0.683	97.151	285.538	1609	20.059	0.450	82.536	364.551	1664	19.779	0.370	-135.009	95.740
1560	19.812	0.464	1.874	287.636	1610	18.785	0.252	-178.866	366.206	1665	19.778	0.480	-172.864	106.887
1561	20.001	0.500	-3.306	287.534	1611	19.938	0.474	-173.966	372.430	1666	20.480	0.406	-173.806	103.819
1562	20.155	0.496	-5.381	290.957	1612	20.248	0.452	-17.689	375.089	1667	20.150	0.466	57.215	123.900
1563	17.940	0.675	-154.245	290.353	1613	20.618	0.763	-181.845	379.391	1668	19.073	0.607	60.772	125.098
1564	20.103	0.444	-90.974	292.845	1614	18.578	0.615	-182.674	378.349	1670	19.799	0.513	65.453	124.409
1565	19.678	0.417	-42.640	292.664	1615	20.371	0.496	-5.936	378.960	1671	19.436	0.396	65.517	132.560
1566	20.325	0.660	-86.119	296.000	1616	20.103	0.372	-167.806	384.338	1672	19.838	0.455	68.117	133.994
1567	20.149	0.511	55.385	297.843	1617	20.297	0.358	-8.685	385.277	1673	19.802	0.599	71.311	134.130
1568	20.074	1.081	113.796	299.413	1618	19.717	0.492	27.700	389.474	1674	20.373	0.380	60.021	140.572

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
1676	20.388	0.451	76.149	131.102	1772	19.545	0.467	91.177	107.509	1921	19.966	0.384	29.991	102.387
1677	19.253	0.403	60.785	143.847	1774	19.506	0.503	-89.728	109.053	1922	19.559	0.491	29.104	106.464
1678	19.462	0.537	46.400	142.177	1775	19.894	0.449	-86.966	110.840	1931	19.530	0.430	99.115	123.949
1679	20.517	0.552	47.940	145.868	1778	19.716	0.438	-90.602	122.111	1932	19.700	0.378	-90.215	109.991
1681	19.343	0.658	42.419	145.064	1781	19.300	0.476	-86.800	123.309	1947	18.189	0.731	-48.091	120.530
1684	20.073	0.426	38.877	148.868	1783	19.886	0.454	-100.151	130.223	1948	20.078	0.535	-43.715	121.238
1685	20.105	0.565	40.081	151.243	1787	20.517	0.600	-117.628	125.343	1949	19.786	0.403	-45.309	119.000
1688	19.765	0.458	-150.749	16.704	1788	18.422	0.397	-117.432	120.321	1950	19.466	0.474	-41.700	118.074
1689	19.549	0.551	-148.787	19.496	1791	19.314	0.763	67.551	113.834	1952	19.921	0.525	89.315	116.251
1694	19.872	0.497	-142.300	28.468	1792	19.495	0.450	-28.826	124.285	1956	20.171	0.453	-23.453	116.411
1695	20.023	0.497	-95.309	19.585	1794	20.072	0.569	-36.321	124.983	1964	19.432	0.465	61.570	130.415
1699	20.082	0.429	-136.177	28.460	1795	20.031	0.511	-72.498	142.823	1966	19.875	0.564	65.153	134.451
1700	20.031	0.388	-133.545	36.847	1796	19.979	0.415	-69.574	143.794	1980	19.617	0.348	-81.787	124.009
1701	20.933	0.589	-130.553	36.932	1797	19.613	0.424	-60.628	167.849	1993	19.804	0.450	14.753	131.645
1703	20.531	0.613	-137.821	44.170	1798	20.547	0.423	-57.657	169.832	2006	19.718	0.648	-7.109	141.726
1704	19.677	0.523	-147.551	31.506	1800	19.545	0.590	-105.377	18.577	2038	17.615	0.809	-58.953	163.691
1707	19.395	0.427	-124.140	40.477	1801	17.431	0.811	-111.447	19.547	2049	18.276	0.752	-96.051	170.960
1708	19.111	0.478	-127.632	44.587	1802	20.067	0.558	-124.160	20.440	2060	19.982	0.458	-12.153	174.091
1712	20.082	0.496	-122.311	43.877	1803	17.861	0.608	-120.547	23.181	2082	19.639	0.499	-2.068	184.870
1719	19.785	0.358	-78.430	80.253	1807	19.724	0.503	-118.811	37.213	2084	19.974	0.473	70.900	186.591
1720	19.878	0.432	-106.426	54.853	1810	20.503	0.553	-118.083	39.768	2102	20.237	0.482	-78.913	194.349
1722	20.466	0.552	101.485	77.330	1813	19.500	0.550	-99.289	35.009	2125	19.593	0.420	-59.253	213.264
1723	19.961	0.453	97.838	79.149	1815	19.374	0.501	-96.043	33.028	2126	19.994	0.573	26.617	214.477
1724	20.385	0.381	105.355	73.817	1816	19.219	0.467	-99.968	43.681	2135	19.332	0.597	-44.309	219.279
1725	19.729	0.403	108.300	78.821	1817	19.413	0.497	-63.938	100.951	2178	19.952	0.471	-118.294	310.840
1727	19.675	0.471	89.783	81.002	1818	19.928	0.635	-60.230	100.349	2199	19.450	0.452	40.300	88.915
1729	20.154	0.460	94.751	85.147	1820	19.582	0.427	-64.191	108.798	2205	19.857	0.457	38.660	100.021
1734	19.522	0.427	99.328	90.904	1821	20.459	0.646	-69.615	109.526	2208	19.811	0.450	34.200	109.196
1739	19.879	0.538	84.106	116.802	1822	19.697	0.485	-74.698	102.100	2210	19.698	0.480	-41.651	94.583
1740	19.868	0.625	81.279	121.468	1826	19.280	0.269	-70.832	124.219	2211	20.310	0.427	-36.847	98.140
1745	19.866	0.477	103.681	83.689	1827	20.954	0.582	-68.581	128.851	2213	19.790	0.163	-42.615	101.653
1746	20.052	0.406	-116.098	86.189	1832	18.133	0.702	-57.538	131.117	2215	20.249	0.404	-33.783	106.634
1748	19.882	0.436	-107.334	87.740	1833	17.547	0.692	-55.751	138.472	2223	18.928	0.421	-58.660	137.300
1749	20.104	0.249	-73.443	88.649	1836	19.967	0.505	-54.606	127.870	2231	19.403	0.673	-56.543	150.138
1752	20.131	0.473	-78.609	88.923	1838	19.578	0.486	-58.285	146.711	2233	19.796	0.388	-46.970	134.604
1753	19.134	0.447	-88.555	90.877	1843	20.359	0.514	-65.268	154.555	2236	19.819	0.512	-31.917	87.255
1754	18.210	0.619	-88.834	94.764	1844	20.034	0.539	-205.611	17.500	2238	19.894	0.601	20.794	94.930
1755	19.397	0.369	-91.821	98.577	1860	19.741	0.513	-94.881	85.685	2239	19.899	0.609	11.709	108.717
1757	17.835	0.717	-95.736	94.326	1875	19.714	0.462	-47.600	87.534	2246	19.006	0.715	17.298	98.249
1759	18.061	0.606	-101.923	93.272	1876	19.625	0.551	-47.766	89.855	2250	18.615	0.611	-28.781	100.934
1761	19.490	0.410	-96.109	103.719	1882	19.941	0.484	66.904	97.330	2251	18.523	0.329	-25.357	101.887
1763	20.008	0.482	-106.426	94.904	1885	20.373	0.506	-87.685	89.366	2252	19.412	0.363	-32.064	99.198
1764	19.746	0.747	-108.302	105.923	1891	20.047	0.128	-32.251	93.974	2254	18.965	0.545	-27.732	110.457
1765	19.493	0.469	-108.532	98.745	1892	20.387	0.523	-33.321	95.991	2255	19.290	0.494	-21.777	110.832
1766	19.568	0.528	-111.338	101.298	1894	19.739	0.472	-25.938	98.787	2256	19.576	0.392	-18.332	108.687
1767	18.146	0.519	-72.191	95.355	1895	19.519	0.426	23.053	101.036	2265	20.013	0.106	0.796	104.940
1768	18.738	0.465	-74.534	93.494	1898	20.487	0.307	84.472	103.611	2266	19.885	0.600	7.196	103.749
1769	19.430	0.431	84.028	102.691	1904	19.351	0.449	-100.409	103.460	2267	20.207	0.124	-22.053	103.183
1770	20.566	0.500	80.557	104.902	1909	19.560	0.591	72.462	112.089	2268	20.019	0.519	-127.660	83.430
1771	19.616	0.542	86.179	108.657	1910	19.449	1.280	75.611	115.091	2279	20.472	0.518	-205.568	-232.579

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
2280	20.360	0.434	-179.498	-230.340	2333	20.220	0.457	-301.409	-184.560	2388	17.980	0.761	-206.438	-137.453
2281	20.500	0.432	-337.128	-232.538	2334	20.617	0.502	-235.615	-182.870	2389	20.708	0.568	-194.836	-135.953
2282	20.567	0.496	-309.360	-230.591	2339	19.388	0.565	-335.009	-181.055	2390	20.463	0.457	-249.338	-135.755
2283	20.869	0.497	-210.115	-226.115	2340	20.437	0.513	-328.432	-178.485	2391	20.621	0.498	-228.600	-132.921
2284	20.709	0.509	-209.213	-228.009	2341	19.998	0.443	-210.955	-175.266	2392	20.369	0.466	-226.102	-132.636
2285	20.887	0.349	-166.568	-225.928	2342	18.161	0.788	-213.700	-174.196	2393	20.156	0.467	-321.198	-134.468
2286	20.976	0.674	-164.881	-225.417	2343	20.430	0.572	-193.198	-172.753	2394	19.592	1.199	-261.713	-132.751
2287	20.107	0.509	-167.496	-223.555	2344	19.654	0.495	-169.040	-170.645	2395	19.619	0.450	-154.772	-130.747
2288	19.627	0.474	-193.204	-225.460	2345	19.620	0.472	-335.287	-170.743	2396	19.630	0.481	-150.515	-127.904
2289	19.637	0.435	-193.674	-227.234	2346	19.254	1.093	-294.815	-167.123	2397	20.675	0.594	-152.015	-125.251
2290	20.439	0.472	-182.166	-222.787	2347	19.926	0.741	-293.628	-169.826	2398	19.686	0.492	-294.360	-131.753
2291	20.775	0.518	-157.615	-222.536	2348	20.553	0.533	-189.553	-168.081	2399	19.590	0.493	-160.453	-128.226
2292	20.197	0.473	-143.374	-219.674	2349	20.453	0.527	-142.085	-166.817	2400	19.417	0.532	-182.081	-128.181
2293	20.444	0.430	-244.721	-221.391	2350	19.491	0.471	-144.179	-162.836	2401	20.557	0.518	-186.387	-125.834
2294	20.503	0.440	-273.011	-221.260	2351	20.708	0.472	-252.683	-167.806	2402	20.363	0.463	-130.055	-126.455
2295	20.784	0.399	-258.151	-218.277	2352	19.530	0.589	-205.919	-163.115	2403	20.321	0.642	-261.583	-128.545
2296	20.291	0.535	-257.581	-219.787	2353	20.481	0.471	-215.553	-162.585	2404	20.758	0.449	-206.666	-125.834
2297	17.333	0.808	-181.923	-214.615	2354	20.297	0.531	-189.574	-162.157	2406	19.536	0.541	-215.972	-124.934
2298	20.750	0.610	-160.291	-214.494	2355	19.181	0.664	-175.374	-159.964	2407	20.061	0.428	-211.660	-123.772
2299	19.740	0.509	-289.996	-213.115	2356	19.463	0.538	-280.783	-160.468	2408	20.898	0.543	-219.583	-122.757
2300	19.795	0.458	-229.260	-210.968	2357	19.938	0.422	-244.081	-159.568	2409	20.387	0.493	-216.749	-120.811
2301	20.618	0.536	-255.213	-211.049	2358	20.416	0.459	-134.979	-155.787	2410	19.497	0.518	-210.317	-121.811
2302	16.703	0.855	-250.109	-210.219	2359	19.916	0.451	-193.170	-154.785	2411	20.757	0.490	-219.960	-118.753
2303	19.740	0.480	-214.419	-209.291	2360	20.573	0.470	-260.145	-155.140	2412	20.091	0.554	-166.362	-123.734
2306	20.520	0.555	-160.796	-200.696	2361	20.739	0.497	-153.943	-150.894	2414	20.446	0.491	-162.266	-119.221
2307	20.631	0.495	-190.606	-204.928	2362	19.346	0.632	-155.260	-147.323	2415	20.303	0.510	-254.066	-123.585
2308	20.361	0.503	-175.417	-202.517	2363	20.366	0.494	-186.883	-151.596	2416	20.461	0.646	-129.551	-120.813
2309	20.080	0.485	-296.870	-203.879	2364	20.700	0.425	-302.089	-153.021	2417	20.334	0.464	-133.081	-117.985
2310	20.634	0.511	-270.345	-203.615	2365	19.662	0.478	-162.755	-150.379	2418	19.967	0.438	-136.530	-116.066
2311	19.932	0.454	-130.057	-198.419	2366	20.476	0.502	-201.172	-149.045	2419	20.094	0.488	-173.353	-120.177
2312	19.943	0.500	-170.560	-198.543	2367	19.312	0.621	-177.136	-148.989	2420	19.634	0.495	-176.830	-117.760
2313	18.818	0.722	-330.343	-199.479	2368	20.370	0.504	-191.798	-148.572	2421	19.881	0.495	-295.147	-121.862
2314	20.115	0.585	-148.400	-194.555	2369	20.100	0.514	-146.238	-145.785	2423	20.214	0.474	-145.296	-116.028
2315	20.330	0.499	-217.857	-194.383	2370	20.318	0.480	-145.357	-141.734	2424	19.885	0.566	-145.711	-113.800
2316	20.094	0.478	-277.111	-193.426	2371	20.469	0.489	-283.151	-147.457	2427	20.488	0.398	-141.900	-108.685
2317	20.176	0.458	-255.940	-191.994	2372	20.571	0.485	-140.415	-144.470	2428	20.649	0.618	-137.521	-109.943
2318	20.176	0.491	-254.736	-188.270	2373	20.338	0.497	-199.683	-144.800	2429	19.351	0.511	-139.951	-106.783
2319	20.899	0.389	-139.260	-189.304	2374	19.395	0.616	-224.934	-144.500	2430	20.316	0.524	-143.802	-105.200
2321	20.300	0.479	-185.553	-189.553	2375	20.182	0.495	-225.528	-140.857	2431	20.384	0.560	-138.713	-103.415
2322	19.553	0.479	-174.113	-187.968	2376	20.865	0.481	-219.564	-143.596	2432	19.318	0.520	-254.206	-118.553
2323	19.725	0.477	-206.911	-188.194	2377	20.762	0.525	-247.285	-142.726	2433	20.186	0.486	-188.717	-115.921
2324	20.553	0.571	-145.834	-186.766	2378	20.136	0.485	-174.762	-141.051	2434	19.591	0.495	-191.047	-114.872
2325	20.305	0.499	-238.528	-188.506	2379	19.862	0.464	-214.843	-141.670	2435	20.748	0.554	-172.353	-115.317
2326	20.446	0.477	-267.698	-187.564	2380	19.292	0.590	-236.411	-140.981	2436	20.854	0.498	-159.306	-114.715
2327	19.776	0.458	-218.166	-186.523	2381	20.497	0.421	-155.734	-139.570	2437	20.946	0.494	-157.234	-114.466
2328	19.126	0.687	-215.168	-185.415	2382	20.101	0.430	-155.555	-136.768	2438	20.401	0.494	-328.249	-117.766
2329	20.096	0.467	-217.132	-180.749	2383	19.832	0.438	-160.338	-137.262	2439	20.608	0.696	-240.470	-116.064
2330	19.965	0.488	-151.621	-185.300	2384	20.247	0.463	-334.096	-141.674	2440	20.743	0.269	-238.594	-115.234
2331	20.412	0.492	-189.009	-184.260	2385	20.479	0.452	-309.764	-140.494	2441	20.258	0.447	-230.462	-115.074
2332	19.949	0.474	-172.666	-182.283	2386	20.273	0.469	-165.513	-137.487	2442	20.417	0.478	-335.628	-116.677

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
2443	19.769	0.517	-151.074	-111.519	2499	20.303	0.682	-168.228	-67.949	2554	19.513	0.538	-195.545	-52.004
2444	20.508	0.546	-251.257	-112.277	2500	20.765	0.592	-131.079	-74.889	2555	19.521	0.512	-293.377	-55.172
2445	20.758	0.561	-169.728	-108.994	2501	20.353	0.468	-134.643	-71.834	2556	20.596	0.466	-244.136	-53.570
2446	20.450	0.496	-262.336	-107.481	2502	20.618	0.377	-134.283	-67.770	2557	20.690	0.536	-189.238	-51.979
2447	19.315	0.703	-133.183	-164.523	2505	19.664	0.538	-173.913	-73.857	2558	20.286	0.510	-236.311	-51.991
2448	19.853	0.498	-134.083	-100.628	2506	19.378	0.628	-174.353	-68.053	2559	20.986	0.226	-234.006	-46.349
2449	19.809	0.500	-135.430	-97.987	2507	19.924	0.482	-178.534	-68.802	2560	20.741	0.474	-231.721	-45.815
2450	20.267	0.503	-138.794	-96.183	2508	19.744	0.522	-180.815	-69.006	2561	20.579	0.477	-228.668	-47.881
2451	20.762	0.484	-136.521	-94.245	2509	20.080	0.487	-237.462	-74.426	2562	19.414	0.435	-183.106	-50.919
2452	19.632	0.494	-131.874	-93.866	2510	20.132	0.434	-236.081	-73.477	2563	19.667	0.524	-252.304	-50.751
2453	20.540	0.449	-237.594	-106.368	2511	20.306	0.458	-210.179	-70.632	2564	20.342	1.054	-285.540	-50.364
2454	19.996	0.514	-180.364	-105.194	2512	20.195	0.446	-279.949	-71.549	2565	21.489	-0.615	-285.983	-49.179
2456	19.835	0.500	-162.026	-100.862	2513	19.731	0.381	-250.285	-70.943	2566	16.343	0.699	-174.555	-43.634
2457	20.122	0.508	-227.400	-103.723	2514	20.018	0.463	-196.234	-69.985	2567	20.176	0.504	-178.598	-42.021
2458	19.524	0.503	-150.196	-101.760	2515	20.816	0.554	-159.170	-68.466	2568	19.383	0.508	-173.868	-39.145
2459	20.349	0.559	-217.489	-101.732	2516	20.580	0.522	-158.119	-65.534	2569	17.136	0.832	-177.560	-38.011
2460	17.230	0.816	-203.774	-99.796	2517	20.722	0.515	-202.845	-69.274	2570	20.996	0.632	-181.579	-36.477
2461	20.450	0.562	-180.266	-98.434	2519	19.101	0.551	-144.779	-65.098	2571	16.527	0.681	-179.040	-31.615
2462	19.581	0.472	-291.643	-100.134	2520	20.615	0.526	-164.168	-66.172	2572	20.275	0.562	-185.162	-29.768
2463	20.514	0.494	-239.957	-97.740	2521	18.944	0.711	-303.179	-67.391	2573	16.177	0.807	-180.634	-27.502
2464	20.298	0.576	-171.998	-95.760	2522	19.826	0.481	-226.383	-65.721	2574	19.433	0.562	-160.779	-45.857
2465	19.700	1.457	-167.900	-93.649	2523	20.426	0.556	-207.779	-64.636	2575	20.374	0.519	-164.96	-44.581
2466	20.533	0.398	-156.934	-94.567	2524	19.975	0.766	-152.111	-63.581	2576	20.048	0.453	-166.015	-39.577
2467	20.339	0.426	-160.251	-93.811	2525	20.200	0.584	-184.732	-61.868	2577	19.531	0.471	-165.136	-36.770
2469	20.841	0.522	-162.051	-91.213	2526	15.653	0.881	-185.104	-58.147	2578	19.559	0.495	-241.332	-46.353
2471	20.413	0.440	-160.055	-86.060	2527	17.929	0.779	-177.532	-58.340	2579	20.442	0.503	-324.817	-47.972
2472	19.402	0.588	-295.740	-95.289	2528	16.502	0.877	-173.187	-59.815	2580	16.636	0.863	-330.779	-47.213
2473	19.831	0.415	-264.266	-94.451	2529	19.226	0.501	-171.666	-55.996	2581	20.490	0.469	-197.677	-45.119
2474	20.761	0.504	-258.398	-92.285	2530	19.932	0.456	-167.677	-60.343	2582	19.764	0.520	-192.706	-42.751
2475	20.333	0.446	-286.757	-91.304	2531	19.990	0.392	-165.117	-58.091	2583	19.880	0.480	-189.153	-41.704
2476	19.928	0.457	-171.381	-88.521	2532	19.615	0.457	-161.536	-56.887	2584	20.144	0.463	-189.298	-44.247
2477	19.036	0.701	-353.206	-91.494	2533	19.402	0.658	-158.181	-53.921	2585	20.621	0.542	-186.806	-41.609
2478	19.718	0.511	-185.728	-87.189	2534	20.444	0.461	-248.266	-61.996	2586	20.293	0.489	-184.911	-44.136
2479	19.610	0.474	-130.983	-85.777	2535	20.219	0.480	-245.917	-60.289	2587	20.510	0.394	-136.972	-39.028
2481	20.841	0.491	-137.100	-80.255	2536	20.643	0.478	-332.434	-62.891	2588	19.331	0.702	-142.087	-43.232
2482	19.910	0.566	-137.006	-77.960	2537	20.218	0.559	-149.338	-58.083	2589	19.324	0.507	-141.181	-41.353
2484	20.083	0.587	-131.413	-80.653	2538	20.705	0.477	-145.311	-55.545	2590	21.124	0.529	-147.060	-40.896
2485	20.696	0.442	-150.683	-85.040	2539	20.529	0.457	-239.374	-59.368	2591	21.289	0.710	-149.013	-40.381
2486	19.396	0.604	-348.098	-88.502	2540	19.677	0.554	-135.187	-57.145	2593	19.723	0.498	-156.651	-32.800
2487	19.620	0.505	-263.587	-85.406	2543	20.207	0.522	-131.832	-51.634	2594	19.220	0.585	-140.023	-43.026
2488	20.660	0.472	-209.317	-81.900	2544	20.422	0.456	-155.134	-56.185	2595	19.160	0.531	-299.334	-46.779
2489	19.705	0.486	-183.706	-80.977	2545	20.334	0.489	-151.630	-53.911	2596	20.167	0.461	-288.747	-43.253
2490	19.975	0.490	-188.523	-78.643	2546	20.699	0.423	-153.328	-50.717	2597	20.200	0.483	-290.387	-41.953
2491	20.252	0.535	-168.219	-80.898	2547	20.346	0.462	-220.513	-56.317	2598	19.509	0.504	-257.168	-41.617
2492	20.631	0.480	-224.694	-81.589	2548	19.951	0.480	-222.089	-52.145	2599	20.549	0.525	-348.364	-43.013
2493	20.601	0.528	-175.038	-80.123	2549	20.668	0.483	-214.200	-56.304	2600	19.521	0.509	-361.562	-41.543
2494	20.338	0.506	-157.623	-77.600	2550	16.551	0.627	-209.209	-55.928	2601	18.842	0.718	-341.721	-41.415
2495	19.363	0.544	-154.817	-76.766	2551	20.653	0.535	-214.660	-53.155	2602	19.940	0.449	-231.887	-38.953
2496	20.154	0.451	-152.372	-76.583	2552	20.344	0.469	-216.662	-50.119	2603	20.783	0.465	-229.851	-36.952
2497	20.535	0.639	-164.760	-77.268	2553	19.379	0.537	-195.445	-55.683	2604	20.429	0.458	-248.019	-38.817

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
2605	19.850	0.474	-209.430	-36.485	2657	20.430	0.502	-321.832	-13.753	2708	20.273	0.479	-263.119	17.226
2606	20.571	0.500	-206.992	-34.874	2658	20.692	0.482	-170.126	-10.970	2711	20.339	0.529	-213.613	18.383
2607	20.093	0.414	-280.309	-37.321	2659	20.270	0.495	-215.570	-11.064	2712	20.589	0.554	-191.794	19.262
2608	20.531	0.487	-291.132	-36.960	2660	19.413	0.603	-221.453	-10.064	2713	19.391	0.642	-256.434	20.360
2610	20.656	0.485	-323.626	-34.919	2661	19.853	0.452	-285.821	-11.162	2717	19.561	0.568	-241.509	21.902
2611	19.785	0.485	-338.926	-34.604	2662	20.987	0.563	-147.323	-7.717	2718	18.709	0.582	-183.532	24.000
2612	19.323	0.620	-161.694	-30.934	2663	20.015	0.473	-157.468	-7.704	2719	20.675	0.494	-240.947	23.700
2613	19.353	0.445	-160.134	-27.815	2664	19.600	0.560	-275.336	-6.343	2720	20.095	0.535	-220.300	24.006
2614	19.414	0.579	-156.111	-27.174	2665	19.016	0.714	-252.560	-5.398	2721	20.250	0.426	-230.074	24.294
2615	19.933	0.542	-150.004	-26.432	2666	20.377	0.479	-249.170	-1.143	2722	19.809	0.480	-229.432	26.957
2616	20.145	0.427	-134.423	-25.081	2667	21.029	0.461	-245.821	1.360	2723	19.826	0.488	-226.906	27.860
2617	19.573	0.462	-133.738	-21.934	2668	20.130	0.478	-241.855	1.626	2731	19.546	0.557	-152.121	27.966
2618	20.245	0.503	-136.332	-19.813	2669	20.995	0.674	-244.183	1.274	2732	20.486	0.459	-208.819	27.206
2619	20.243	0.521	-134.087	-16.517	2670	19.688	0.480	-238.394	1.032	2733	20.298	0.504	-211.311	30.809
2620	19.728	0.498	-291.904	-27.585	2671	19.839	0.482	-188.474	-3.851	2734	20.745	0.501	-135.891	30.411
2621	20.067	0.672	-167.662	-23.815	2672	20.039	0.447	-192.334	-0.860	2735	19.875	0.432	-133.626	37.953
2623	19.535	0.471	-271.526	-23.998	2673	20.744	0.478	-212.057	-3.630	2737	21.153	0.582	-138.723	42.494
2624	19.415	0.587	-186.132	-22.038	2674	20.366	0.509	-303.951	-2.445	2738	20.589	0.568	-137.757	45.268
2625	20.871	0.669	-140.870	-21.847	2675	20.369	0.469	-300.704	-2.174	2739	19.888	0.401	-157.232	31.855
2626	20.755	0.390	-142.853	-20.162	2676	16.664	0.669	-218.796	1.830	2740	19.451	0.513	-158.647	34.079
2627	20.733	0.616	-241.406	-22.240	2677	19.755	0.495	-209.285	1.911	2741	20.795	0.493	-159.621	37.021
2628	19.653	0.490	-172.421	-21.466	2678	19.815	0.498	-197.806	2.049	2742	19.201	0.462	-161.909	40.951
2629	19.907	0.468	-287.489	-22.926	2679	19.064	0.666	-261.570	1.351	2744	19.968	0.512	-165.611	45.677
2630	20.603	0.481	-206.498	-21.334	2680	20.347	0.491	-258.496	1.698	2745	19.451	0.525	-157.411	47.340
2631	20.289	0.668	-250.336	-21.130	2681	20.760	0.541	-176.128	3.157	2747	20.342	0.496	-154.885	44.057
2632	18.072	0.750	-213.866	-19.385	2682	19.683	0.478	-172.266	5.832	2749	20.463	0.526	-254.528	31.506
2633	20.131	0.478	-192.121	-18.000	2683	19.731	0.534	-168.860	8.717	2750	20.129	0.471	-244.704	32.604
2634	19.168	0.568	-178.853	-16.779	2684	20.667	0.484	-170.800	10.874	2751	20.388	0.456	-352.208	30.581
2635	20.834	0.645	-156.726	-16.500	2685	20.283	0.529	-165.294	8.660	2753	20.251	0.480	-263.989	35.164
2636	19.807	0.524	-203.017	-16.934	2686	20.131	0.461	-186.687	3.879	2755	19.770	0.488	-281.957	36.094
2637	20.701	0.516	-165.764	-16.679	2687	20.076	0.472	-228.074	3.885	2756	19.845	0.509	-254.823	37.247
2638	19.943	0.440	-239.451	-16.783	2688	19.861	0.394	-136.170	8.043	2757	20.004	0.483	-251.477	39.355
2639	20.054	0.481	-173.481	-15.300	2689	15.990	0.929	-325.619	4.260	2758	18.331	0.779	-225.002	37.651
2640	19.820	0.496	-175.070	-11.600	2691	19.066	0.662	-179.066	9.496	2759	20.000	0.559	-223.615	40.672
2641	20.256	0.523	-177.417	-7.151	2692	19.514	0.484	-181.181	10.600	2760	20.344	0.546	-200.149	38.304
2642	20.859	0.462	-174.502	-5.702	2693	20.404	0.612	-184.540	13.489	2761	20.215	0.548	-203.702	39.228
2643	20.497	0.533	-180.951	-5.066	2694	19.668	0.485	-181.362	14.751	2762	19.775	0.484	-206.804	39.002
2644	20.317	0.669	-173.172	-3.074	2695	19.541	0.473	-218.351	8.783	2763	20.645	0.503	-189.655	40.094
2645	20.321	0.473	-185.400	-13.521	2696	20.650	0.507	-216.155	11.389	2765	18.441	0.759	-190.545	48.089
2646	19.185	0.606	-187.860	-10.872	2697	20.401	0.509	-253.121	8.732	2766	20.743	0.553	-278.283	39.472
2647	18.867	0.724	-191.826	-12.253	2698	20.179	0.518	-290.181	9.560	2767	19.852	0.490	-214.460	40.270
2648	20.490	0.576	-196.202	-11.543	2699	20.394	0.509	-247.560	11.264	2768	19.769	0.428	-212.711	44.249
2649	20.694	0.576	-153.034	-12.411	2700	21.047	0.398	-169.019	13.985	2769	20.279	0.526	-209.115	46.515
2650	20.038	0.506	-142.043	-12.313	2701	21.116	0.536	-173.551	14.809	2770	18.942	0.708	-212.855	47.713
2651	19.878	0.563	-140.998	-10.834	2702	20.493	0.530	-283.719	13.000	2771	18.725	0.636	-207.547	51.434
2652	19.629	0.619	-139.974	-9.289	2703	19.586	0.492	-201.411	14.815	2772	18.391	0.765	-203.951	51.079
2653	20.490	0.555	-136.626	-9.387	2704	20.744	0.466	-199.289	17.621	2773	20.429	0.453	-320.315	40.419
2654	19.870	0.453	-304.279	-14.296	2705	20.298	0.383	-321.306	12.462	2774	20.311	0.520	-263.615	43.74
2655	19.972	0.469	-307.321	-13.721	2706	20.037	0.512	-225.130	15.932	2775	20.410	0.495	-343.857	42.491
2656	19.769	0.487	-331.053	-13.985	2707	16.636	0.688	-235.668	17.160	2776	19.721	0.463	-337.100	42.257

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
2777	19.882	0.488	-329.053	43.411	2854	20.498	0.495	-190.581	88.451	2936	19.793	0.505	-323.662	133.400
2778	19.422	0.656	-235.528	45.983	2856	19.909	0.497	-148.734	89.657	2937	19.431	0.536	-241.757	135.209
2779	19.753	0.482	-238.279	47.796	2858	19.987	0.555	-155.845	99.555	2941	20.679	0.501	-153.166	141.100
2781	20.146	0.547	-296.034	46.577	2861	19.508	0.529	-345.757	87.155	2943	19.708	0.487	-221.355	141.270
2783	20.947	0.693	-135.104	49.951	2862	20.269	0.471	-227.330	89.732	2944	20.546	0.489	-234.504	141.549
2784	20.699	0.635	-133.557	53.698	2865	20.676	0.431	-137.249	95.168	2945	15.880	1.178	-336.657	139.796
2785	20.805	0.502	-142.636	50.953	2866	20.503	0.485	-135.672	97.657	2946	19.594	0.523	-296.609	141.349
2786	20.832	0.491	-218.753	49.026	2871	21.757	0.416	-137.315	106.545	2947	19.485	0.233	-138.289	-4.581
2787	19.393	0.447	-223.581	50.381	2872	20.252	0.536	-203.562	92.128	2948	20.888	0.418	-135.679	-1.315
2788	20.689	0.487	-180.451	50.455	2873	20.334	0.470	-200.034	93.562	2949	20.107	0.487	-139.343	-0.645
2789	20.155	0.575	-214.283	53.306	2874	16.655	0.693	-314.517	91.689	2950	19.574	0.562	-132.666	-0.334
2791	20.366	0.550	-279.374	52.115	2875	17.892	0.805	-324.238	92.770	2951	20.937	0.261	-135.134	0.779
2793	19.439	0.563	-137.779	57.489	2876	19.060	0.692	-209.574	95.194	2952	20.460	0.470	-142.460	-0.849
2794	19.926	0.472	-135.826	59.317	2877	20.887	0.553	-238.743	94.717	2953	20.722	0.592	-145.670	2.551
2795	19.283	0.634	-134.255	63.015	2878	20.651	0.536	-190.166	96.332	2954	20.338	0.455	-145.840	-0.283
2796	20.514	0.559	-162.838	56.913	2879	20.151	0.483	-183.702	97.355	2955	21.473	0.186	-143.757	-2.662
2797	20.754	0.488	-159.555	58.540	2883	20.688	0.520	-348.457	96.764	2956	19.448	0.246	-149.553	-0.647
2798	20.801	0.563	-231.232	56.777	2884	19.423	0.503	-256.368	98.149	2959	18.972	0.396	-156.860	5.730
2799	20.718	0.419	-153.149	58.379	2885	20.477	0.546	-204.472	103.862	2961	20.847	0.405	-159.866	1.528
2805	20.544	0.522	-253.660	57.466	2888	20.355	0.511	-289.645	102.651	2962	19.680	0.481	-148.568	8.428
2806	19.984	0.500	-210.013	58.451	2889	20.947	0.542	-151.257	106.036	2963	19.299	0.519	-154.753	12.717
2807	19.762	0.477	-338.530	56.219	2891	20.681	0.667	-246.100	106.632	2967	18.808	0.618	-361.813	-238.038
2808	20.629	0.427	-276.398	57.594	2892	16.993	0.854	-242.049	108.715	2971	20.816	0.489	104.030	-16.149
2809	17.796	0.792	-273.770	61.723	2893	20.540	0.519	-344.340	103.196	2973	19.361	0.610	101.643	-12.404
2810	19.845	0.493	-205.415	59.443	2896	20.792	0.513	-157.402	111.468	2974	20.997	0.701	142.313	-15.685
2811	19.966	0.441	-224.102	59.653	2897	19.297	0.458	-221.023	112.749	2975	20.460	0.539	145.068	-12.219
2812	20.791	0.454	-233.700	60.004	2898	20.434	0.451	-351.653	110.809	2976	20.277	0.559	220.394	-14.074
2813	20.081	0.573	-297.406	59.085	2899	19.970	0.505	-250.119	112.738	2977	19.960	0.516	217.438	-11.506
2814	19.895	0.502	-265.196	60.253	2900	20.967	0.546	-147.036	115.209	2978	20.754	0.509	221.400	-10.547
2815	19.125	0.714	-262.898	64.638	2901	20.421	0.475	-150.387	117.266	2979	18.334	0.709	221.109	-6.217
2816	20.569	0.543	-142.134	62.866	2902	20.452	0.487	-295.068	113.213	2980	19.467	0.537	250.711	-12.800
2818	20.798	0.595	-145.694	70.194	2903	19.503	0.531	-237.223	115.783	2981	19.499	0.615	254.240	-11.681
2819	20.524	0.634	-212.628	63.138	2904	16.657	0.656	-201.568	116.500	2982	16.670	0.582	203.832	-13.396
2820	19.294	0.393	-171.151	63.615	2905	19.412	0.532	-203.696	122.083	2983	19.122	0.420	209.223	-9.755
2821	18.302	0.728	-170.370	66.632	2908	20.221	0.450	-251.655	118.851	2984	20.114	0.517	198.609	-9.521
2824	20.016	0.482	-248.179	63.043	2909	20.254	0.473	-312.270	118.302	2985	20.032	0.464	198.534	-5.311
2825	16.935	0.892	-252.138	67.947	2912	20.273	0.500	-271.481	120.168	2986	19.481	0.592	272.896	-7.064
2826	19.692	0.500	-257.334	63.636	2913	20.728	0.522	-142.317	123.170	2987	19.736	0.517	139.613	-8.936
2827	18.197	0.757	-184.085	66.836	2914	20.059	0.491	-289.400	121.126	2988	20.109	0.536	314.902	-4.947
2828	19.561	0.517	-345.757	63.826	2915	16.651	0.894	-283.762	121.351	2989	19.732	0.484	166.343	-8.068
2829	19.880	0.510	-294.255	66.257	2916	20.118	0.524	-332.313	120.447	2990	20.581	0.405	164.381	-4.626
2838	20.943	0.556	-147.843	85.432	2917	20.764	0.547	-340.628	121.840	2991	17.930	0.780	229.436	-6.653
2840	20.040	0.499	-270.251	75.489	2918	20.456	0.509	-274.751	124.277	2992	20.380	0.423	207.191	-6.032
2841	19.816	0.475	-265.460	76.098	2919	20.213	0.464	-208.289	125.911	2993	20.480	0.448	203.466	-3.223
2842	16.225	0.922	-262.943	79.872	2920	20.719	0.416	-139.409	127.340	2994	19.717	0.495	173.923	-4.026
2843	20.393	0.531	-255.930	76.551	2922	20.556	0.505	-137.187	131.813	2995	20.327	0.478	169.006	-3.519
2844	18.209	0.762	-201.472	79.794	2923	19.657	0.505	-252.117	126.447	2996	19.598	0.661	128.281	-2.483
2849	19.412	0.616	-219.602	80.494	2924	19.956	0.498	-260.436	126.596	2997	21.112	0.304	130.832	5.572
2852	19.629	0.462	-222.979	86.106	2925	19.767	0.484	-227.113	129.264	2998	20.174	0.494	132.736	8.764
2853	20.649	0.579	-134.462	87.549	2930	20.626	0.656	-163.662	132.479	2999	20.287	0.485	318.043	2.823

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
3000	20.071	0.541	294.270	4.279	3053	19.311	0.494	146.091	39.553	3106	18.912	0.743	173.336	68.496
3001	20.281	0.494	136.560	0.934	3054	20.148	0.372	150.666	39.530	3107	20.251	0.433	169.260	70.404
3002	20.076	0.519	137.172	3.728	3055	16.694	0.665	271.670	39.151	3108	19.918	0.452	175.923	73.117
3003	19.712	0.530	139.685	6.904	3057	20.402	0.473	187.300	38.234	3109	15.133	1.062	194.023	68.966
3005	20.164	0.491	281.066	5.234	3058	20.379	0.536	204.811	39.813	3110	20.019	0.498	315.434	73.630
3006	21.172	0.410	123.651	2.274	3059	19.566	0.532	208.370	42.813	3111	19.347	0.528	145.830	70.747
3008	19.995	0.473	170.660	3.932	3060	19.756	0.470	212.400	43.977	3113	20.587	0.541	136.930	77.785
3009	20.005	0.481	172.517	6.194	3061	20.094	0.327	215.774	42.862	3114	19.653	0.471	146.451	77.864
3010	19.778	0.570	196.643	5.183	3062	19.884	0.456	218.604	46.981	3115	20.701	0.364	142.896	81.438
3011	17.684	0.737	182.311	7.685	3063	20.393	0.476	156.879	40.804	3116	19.590	0.552	139.064	82.904
3012	19.913	0.462	155.513	6.596	3064	19.169	0.744	158.828	44.306	3117	19.580	0.569	154.283	71.896
3013	19.434	0.570	213.849	9.160	3065	16.690	0.525	153.479	45.749	3118	20.503	0.553	121.911	71.689
3014	19.545	0.609	265.400	11.917	3066	16.297	0.741	149.136	51.045	3119	20.765	0.587	123.955	73.466
3015	20.117	0.396	267.879	12.160	3067	19.345	0.381	152.006	55.600	3120	19.731	0.465	253.551	75.632
3016	20.143	0.458	289.653	12.026	3068	16.630	0.641	146.777	56.570	3121	19.422	0.629	216.668	75.783
3017	19.902	0.548	88.091	8.179	3069	19.922	0.463	155.166	58.802	3122	20.211	0.528	182.655	75.928
3018	19.428	0.452	91.181	8.991	3070	16.429	0.891	144.409	61.938	3123	19.596	0.602	178.145	78.968
3019	19.415	0.519	147.326	11.679	3071	19.997	0.509	153.911	61.579	3124	20.278	0.476	175.149	76.521
3020	20.536	0.496	111.377	12.172	3072	19.704	0.571	139.574	60.277	3125	19.549	0.614	170.734	78.717
3021	19.353	0.545	199.238	13.253	3073	19.280	0.538	138.796	40.187	3126	19.350	0.583	170.789	81.387
3022	19.705	0.545	223.374	14.089	3074	19.589	0.497	134.572	41.281	3127	19.722	0.561	308.619	80.530
3023	19.447	0.462	97.560	14.749	3075	19.899	0.539	167.234	43.383	3128	17.037	0.046	319.332	83.053
3024	19.183	0.413	98.443	17.940	3076	20.534	0.611	90.783	46.440	3129	20.283	0.481	255.134	83.411
3025	19.989	0.424	143.777	16.326	3077	19.593	0.481	88.672	50.055	3130	19.872	0.483	130.900	82.789
3026	19.709	0.429	140.891	17.621	3078	19.848	0.537	87.974	53.389	3131	19.683	0.521	129.194	87.123
3027	20.163	0.497	143.970	21.606	3079	19.883	0.441	92.302	56.243	3132	20.389	0.422	273.213	89.915
3028	19.910	0.466	137.532	21.132	3080	18.065	0.774	237.534	49.366	3133	20.635	0.547	135.313	87.274
3029	20.295	0.607	147.415	24.485	3081	19.872	0.502	125.221	51.700	3135	19.229	0.719	182.743	89.100
3030	20.426	0.526	145.066	25.683	3082	19.265	0.486	115.874	48.023	3136	19.638	0.542	183.726	94.921
3031	19.569	0.482	135.451	22.230	3083	19.750	0.560	176.917	51.706	3137	19.435	0.518	183.468	92.866
3032	20.043	0.514	181.362	18.191	3084	19.910	0.536	162.698	52.983	3138	20.067	0.487	258.017	90.836
3033	19.629	0.542	263.426	19.634	3085	19.841	0.572	163.738	55.802	3139	20.211	0.497	268.526	92.930
3034	19.826	0.482	151.613	18.191	3086	20.012	0.478	170.585	54.000	3140	19.706	0.616	159.230	92.440
3035	20.248	0.461	230.006	24.136	3087	19.064	0.564	190.789	54.943	3141	20.171	0.505	212.972	94.215
3036	20.113	0.515	204.326	24.298	3088	19.195	0.654	212.574	56.572	3142	20.118	0.517	288.332	95.940
3037	15.015	0.999	218.017	24.240	3089	20.088	0.369	98.700	55.921	3145	19.745	0.441	190.691	95.436
3038	20.106	0.505	280.715	25.730	3090	20.412	0.557	98.019	59.066	3146	18.357	0.748	147.100	95.513
3040	19.431	0.470	177.272	36.398	3091	20.244	0.468	98.338	63.074	3147	18.934	0.788	169.172	95.683
3041	18.756	0.743	204.291	30.466	3092	19.506	0.597	115.368	55.617	3148	20.339	0.441	129.764	95.368
3042	17.039	0.826	200.117	31.585	3093	16.717	0.561	287.902	59.896	3149	20.511	0.525	133.019	97.691
3043	19.849	0.479	229.483	30.785	3094	19.625	0.563	275.864	60.638	3150	20.259	0.493	127.360	98.751
3044	19.169	0.825	142.551	30.796	3095	19.498	0.653	110.060	57.789	3151	19.691	0.58	130.021	101.591
3045	20.005	0.430	162.100	29.783	3096	20.021	0.514	161.394	60.313	3152	19.549	0.674	270.960	98.564
3046	19.350	0.500	164.753	32.260	3097	20.459	0.429	131.538	61.960	3153	19.745	0.507	227.221	100.877
3047	19.831	0.561	147.817	32.332	3098	20.287	0.443	302.047	67.877	3154	20.102	0.454	222.638	104.170
3048	19.759	0.520	171.187	35.149	3101	19.790	0.543	112.962	69.983	3155	20.169	0.429	225.447	106.089
3049	20.412	0.477	170.091	37.434	3102	19.943	0.420	116.119	68.106	3156	20.242	0.495	223.345	109.228
3050	19.115	0.789	225.013	36.840	3103	19.833	0.563	123.179	65.955	3157	20.074	0.502	264.119	105.189
3051	20.078	0.408	131.415	36.643	3104	17.918	0.702	262.426	68.932	3158	16.697	0.612	178.747	104.819
3052	19.809	0.531	144.168	36.206	3105	20.343	0.535	130.338	67.923	3159	20.259	0.520	185.357	111.013

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
3160	19.837	0.451	204.043	107.613	3229	19.815	0.591	134.898	148.915	3298	20.206	0.437	287.979	211.340
3161	17.719	0.797	210.930	107.526	3230	20.632	0.642	131.081	149.649	3301	19.352	0.523	244.236	214.419
3162	19.999	0.505	156.055	108.583	3233	19.700	0.527	179.009	151.972	3302	19.542	0.584	300.149	216.000
3163	20.631	0.428	154.140	110.872	3234	19.836	0.487	161.626	152.962	3303	19.436	0.493	118.509	212.445
3164	19.079	0.442	150.232	115.028	3235	19.042	0.735	165.628	156.032	3304	20.044	0.456	121.249	216.260
3165	19.861	0.474	161.847	108.074	3236	20.506	0.509	125.964	152.809	3305	20.136	0.664	155.936	213.081
3170	20.589	0.524	145.091	110.079	3237	20.282	0.467	89.906	153.415	3306	19.403	0.564	152.387	215.679
3171	18.987	0.786	263.977	113.832	3240	20.501	0.580	85.649	156.866	3307	20.108	0.541	171.440	215.566
3172	19.292	0.683	247.709	117.011	3242	19.985	0.502	146.249	159.464	3308	19.529	0.555	175.351	216.464
3173	20.007	0.563	229.485	117.600	3243	20.158	0.530	297.006	162.930	3310	19.477	0.650	184.715	219.309
3174	20.201	0.446	235.881	118.296	3245	20.233	0.478	215.536	166.266	3311	20.340	0.491	146.849	220.634
3176	19.473	0.438	125.881	117.981	3246	19.513	0.555	246.419	166.849	3312	19.890	0.440	151.685	221.972
3178	19.580	0.628	131.547	129.251	3247	20.489	0.481	112.074	164.106	3313	19.850	0.538	244.615	223.389
3179	21.485	0.017	135.221	133.721	3248	20.055	0.430	115.849	165.551	3314	20.036	0.477	118.779	221.334
3180	20.317	0.534	162.747	119.234	3249	20.198	0.431	115.730	168.843	3315	20.088	0.450	165.647	222.126
3181	19.897	0.465	169.351	119.332	3252	20.235	0.466	137.636	165.819	3316	20.329	0.654	167.549	227.826
3182	20.100	0.492	194.651	120.600	3253	19.225	0.691	142.045	167.936	3317	19.839	0.542	304.860	229.789
3183	16.721	0.837	257.326	124.394	3254	20.488	0.333	153.785	167.015	3319	18.910	0.704	202.853	229.066
3184	19.990	0.542	191.696	124.436	3255	19.968	0.534	280.306	171.191	3320	19.781	0.499	200.062	231.840
3185	20.094	0.412	311.306	127.609	3256	19.565	0.551	289.126	171.366	3322	20.132	0.540	118.489	227.055
3186	17.461	0.794	204.130	127.130	3257	19.505	0.633	211.330	171.143	3323	16.668	0.506	289.785	232.351
3187	19.787	0.442	141.787	126.534	3258	20.111	0.601	212.398	176.179	3324	19.280	0.700	246.096	232.553
3188	20.172	0.587	137.679	128.026	3260	18.294	0.779	191.406	171.870	3325	19.697	0.525	150.094	231.247
3189	20.341	0.405	144.426	128.457	3261	19.186	0.758	302.147	174.338	3327	19.853	0.537	146.640	239.140
3190	20.090	0.509	140.487	131.477	3262	19.957	0.497	173.647	172.972	3328	19.680	0.494	212.443	237.034
3191	20.203	0.537	90.255	125.400	3263	19.638	0.520	135.306	173.483	3330	19.571	0.456	204.994	240.719
3192	20.349	0.574	92.379	128.270	3264	19.569	0.523	218.383	175.743	3332	19.827	0.482	128.287	240.934
3194	19.760	0.532	158.491	128.515	3265	16.594	0.867	247.836	179.530	3333	20.341	0.587	153.198	242.336
3195	19.882	0.525	319.889	135.768	3266	20.622	0.457	85.564	175.585	3335	14.144	0.752	185.834	245.870
3196	17.692	0.777	224.051	134.857	3273	20.245	0.404	146.077	180.121	3337	19.927	0.469	219.685	254.589
3197	19.769	0.568	226.411	141.819	3274	19.567	0.481	200.357	181.579	3338	19.461	0.614	162.196	255.462
3198	19.445	0.629	224.306	146.653	3275	20.165	0.424	211.547	182.236	3339	20.005	0.496	247.447	257.787
3199	20.028	0.459	301.415	137.100	3276	20.239	0.434	166.513	182.594	3343	18.773	0.721	131.900	259.868
3200	19.358	0.530	176.030	135.545	3277	20.578	0.421	135.411	182.889	3344	16.690	0.623	201.006	264.557
3201	16.661	0.472	173.504	140.913	3278	15.522	0.977	240.149	189.555	3347	19.090	0.724	150.077	271.340
3202	19.305	0.763	168.553	143.634	3279	15.958	0.760	240.028	190.255	3348	19.555	0.572	180.019	273.928
3203	18.449	0.720	170.800	141.594	3280	20.168	0.572	138.551	188.636	3349	19.527	0.608	156.753	274.889
3204	19.836	0.503	166.440	139.087	3281	18.093	0.755	264.300	192.168	3350	19.629	0.548	222.968	278.319
3209	19.494	0.509	147.070	135.745	3282	17.685	0.781	190.185	191.457	3351	19.850	0.519	172.879	280.851
3210	18.921	0.730	149.668	136.994	3283	19.526	0.589	150.804	192.581	3352	19.686	0.522	243.434	286.392
3215	20.361	0.446	251.804	142.400	3284	20.123	0.468	152.255	191.191	3353	19.788	0.514	127.117	284.796
3216	19.799	0.512	161.045	140.236	3285	20.017	0.505	293.972	197.300	3355	20.206	0.494	176.566	288.349
3217	19.857	0.568	320.062	143.036	3286	20.200	0.377	230.938	197.083	3356	20.136	0.490	218.213	291.509
3218	19.362	0.432	232.700	143.649	3289	19.940	0.519	182.683	198.145	3357	17.912	0.776	258.108	294.849
3219	19.149	0.281	128.583	141.819	3290	20.176	0.470	139.698	199.985	3358	20.132	0.489	247.104	295.428
3220	19.602	0.455	215.100	145.349	3291	20.031	0.532	208.987	202.579	3359	18.817	1.620	200.721	299.911
3221	19.915	0.461	161.851	146.511	3292	20.341	0.543	229.123	204.866	3360	19.991	0.507	112.791	299.434
3223	19.829	0.532	115.853	144.415	3293	20.162	0.445	153.183	204.002	3361	19.563	0.554	123.647	303.819
3224	20.152	0.368	117.147	151.153	3295	20.177	0.521	258.804	208.643	3363	19.915	0.485	242.272	308.557
3225	18.135	0.771	197.549	149.551	3296	20.840	0.476	259.185	206.038	3364	19.402	0.702	128.413	325.257

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
3365	20.107	0.468	146.949	331.287	3452	20.465	0.420	106.657	103.596	3550	19.895	0.412	130.140	-187.185
3367	17.436	0.740	181.779	348.264	3454	20.389	0.526	98.274	105.432	3551	17.905	1.259	265.940	-179.472
3368	19.963	0.476	285.149	357.181	3461	19.394	0.421	108.228	13.613	3552	19.985	0.550	222.566	-177.479
3370	16.731	0.123	158.338	-7.249	3463	19.769	0.464	105.189	18.138	3553	19.561	0.502	97.830	-179.064
3371	16.680	0.637	150.696	-4.177	3464	19.598	0.484	111.743	21.064	3555	19.464	0.249	131.498	-178.213
3372	16.724	0.650	160.751	0.879	3466	20.044	0.539	119.494	23.172	3556	19.617	0.596	318.887	-174.374
3373	18.999	0.792	164.426	11.011	3468	19.246	0.521	107.904	28.849	3558	19.895	0.569	108.228	-174.411
3374	16.034	0.922	169.740	12.111	3469	20.437	0.445	117.953	26.691	3559	19.296	0.690	145.951	-171.136
3375	20.824	1.285	159.636	12.909	3470	20.309	0.598	116.334	29.274	3560	19.414	0.665	118.849	-166.604
3376	20.116	0.521	162.774	13.938	3471	20.531	0.522	118.889	30.051	3562	16.706	0.494	302.070	-162.868
3377	20.647	0.635	159.570	16.932	3472	20.149	0.496	120.966	30.932	3563	19.182	0.705	241.853	-162.921
3378	20.044	0.504	157.970	19.021	3473	19.755	0.537	115.802	32.096	3564	20.082	0.538	96.404	-165.653
3379	19.813	0.531	161.989	19.806	3475	19.795	0.451	123.981	29.551	3565	19.860	0.597	311.853	-160.534
3382	19.853	0.455	89.998	82.036	3476	20.369	0.486	112.238	26.987	3566	19.906	0.477	115.447	-162.166
3392	19.506	0.594	124.440	-17.291	3477	19.173	0.739	121.006	37.213	3567	20.083	0.593	146.536	-156.057
3393	20.326	0.437	126.923	-13.440	3479	20.105	0.427	129.479	43.238	3569	19.707	0.572	230.387	-149.736
3394	19.082	0.740	120.360	-10.660	3480	20.638	0.484	85.370	-19.338	3570	18.303	0.739	199.100	-148.766
3395	19.823	0.388	125.889	-9.347	3493	17.668	0.763	344.940	40.962	3571	19.942	0.503	98.079	-146.170
3396	19.057	0.564	116.000	-9.987	3494	18.590	0.898	402.557	43.057	3572	20.080	0.507	197.113	-142.485
3397	20.089	0.336	122.740	-7.474	3495	18.971	0.800	326.545	42.483	3573	16.720	0.838	231.483	-141.102
3400	19.694	0.393	119.649	-4.487	3496	19.598	0.626	334.628	54.217	3574	19.920	0.534	140.274	-142.396
3402	19.721	0.428	108.932	-7.449	3497	19.440	0.780	462.898	59.564	3575	16.415	0.862	238.436	-139.904
3403	19.527	0.144	105.753	-0.051	3498	19.703	0.560	406.817	61.072	3576	20.130	0.458	94.228	-140.528
3407	19.396	0.499	131.038	-9.781	3501	14.074	0.889	445.279	69.538	3577	18.766	0.766	283.836	-136.947
3408	19.593	0.456	134.432	-7.315	3503	19.251	0.778	366.309	72.913	3578	19.930	0.551	161.966	-138.883
3409	19.220	0.442	100.826	4.202	3506	17.406	0.706	335.323	87.885	3579	19.943	0.523	124.498	-137.464
3414	20.502	0.368	128.406	15.000	3511	17.565	0.773	322.372	142.596	3581	19.876	0.469	120.415	-130.685
3415	19.500	0.454	132.200	16.943	3512	18.294	0.824	427.891	161.309	3582	19.722	0.514	104.560	-137.964
3417	19.538	0.492	124.772	23.734	3513	18.111	0.785	384.032	161.747	3583	19.018	0.744	179.715	-136.323
3418	18.437	0.618	123.526	19.917	3514	18.366	0.773	474.645	166.938	3584	19.695	0.518	186.177	-135.247
3419	19.513	0.459	93.938	22.866	3518	19.524	0.504	244.517	177.334	3586	19.471	0.748	244.151	-129.991
3420	19.634	0.570	92.204	24.777	3521	19.063	0.809	327.938	193.153	3587	19.314	0.655	197.932	-130.449
3422	18.235	0.533	94.955	32.262	3522	18.723	0.878	430.909	195.779	3588	19.523	0.637	274.198	-129.134
3424	19.190	0.393	94.645	35.772	3525	20.285	0.580	244.260	212.723	3589	19.860	0.574	181.970	-129.430
3425	19.575	0.365	88.506	33.306	3530	19.155	0.833	332.881	323.940	3590	19.930	0.465	280.681	-126.909
3426	19.844	0.413	102.617	38.687	3531	19.424	0.716	294.579	395.928	3591	19.228	0.522	172.415	-126.617
3427	18.590	0.681	96.032	40.240	3532	19.731	0.621	169.264	-232.915	3592	19.744	0.566	295.553	-124.111
3428	18.975	0.256	97.949	42.370	3534	18.509	0.730	228.879	-223.213	3593	19.180	0.565	94.781	-127.194
3429	19.985	0.550	88.109	39.304	3535	16.385	0.680	197.285	-222.783	3594	17.883	0.719	163.319	-125.291
3434	19.167	0.454	131.953	48.113	3536	19.125	0.700	280.806	-221.251	3595	19.618	0.566	286.349	-122.932
3435	20.132	0.561	129.355	48.036	3537	19.930	0.524	306.966	-219.789	3596	19.275	0.559	241.547	-123.057
3436	20.311	0.532	136.594	50.389	3538	18.491	0.743	218.891	-212.479	3597	19.501	0.677	239.583	-120.626
3437	20.053	0.500	140.453	52.370	3539	19.480	0.635	262.051	-210.760	3598	19.486	0.601	154.717	-123.638
3438	19.202	0.556	123.953	90.574	3540	19.761	0.538	107.391	-209.668	3599	19.644	0.502	152.381	-123.021
3440	20.554	0.426	120.236	94.519	3542	19.258	0.673	170.792	-208.900	3600	18.802	0.748	280.917	-121.166
3441	19.803	0.485	123.385	93.857	3543	19.596	0.499	112.721	-204.147	3601	19.821	0.491	120.743	-123.891
3443	19.947	0.355	117.747	103.983	3544	19.883	0.513	107.968	-198.057	3602	19.523	0.428	119.302	-121.445
3446	19.600	0.489	121.777	106.917	3545	19.967	0.698	235.374	-195.223	3604	20.147	0.471	145.560	-121.779
3448	21.199	0.426	109.840	106.187	3547	19.522	0.543	148.213	-192.034	3611	20.321	0.402	107.700	-108.434
3450	20.294	0.564	103.262	99.645	3548	20.067	0.530	177.517	-190.391	3613	19.692	0.638	243.149	-118.587

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
3614	19.682	0.518	113.017	-120.498	3678	19.724	0.569	184.217	-81.189	3743	19.562	0.538	184.243	-44.100
3616	19.859	0.493	128.221	-118.213	3680	20.338	0.418	123.449	-80.145	3744	17.747	0.766	208.653	-45.977
3617	19.955	0.531	128.879	-113.391	3681	19.645	0.499	113.921	-79.351	3745	19.685	0.548	320.643	-43.334
3618	19.712	0.628	227.113	-115.598	3682	20.161	0.349	119.562	-76.491	3746	19.882	0.498	129.638	-46.323
3619	19.475	0.520	106.668	-117.928	3683	18.134	0.750	197.083	-78.645	3747	20.227	0.480	198.732	-44.457
3620	19.802	0.420	120.979	-115.711	3684	19.243	0.666	132.530	-79.317	3748	19.429	0.618	196.851	-43.819
3621	19.685	0.563	117.111	-113.972	3685	19.866	0.511	144.326	-75.306	3749	19.768	0.541	193.894	-42.781
3623	19.521	0.585	141.249	-106.428	3686	19.708	0.520	141.372	-73.494	3751	20.091	0.405	120.436	-43.098
3624	19.210	0.414	145.604	-105.894	3687	20.370	0.301	146.215	-73.049	3752	19.278	0.723	168.494	-42.006
3625	19.761	0.533	241.834	-109.736	3688	19.975	0.512	188.774	-75.117	3753	19.517	0.561	257.572	-40.100
3626	19.620	0.424	128.745	-109.809	3689	20.098	0.485	176.383	-74.019	3755	19.828	0.536	232.789	-36.845
3628	19.666	0.451	162.226	-108.834	3690	19.901	0.563	177.477	-72.183	3756	20.225	0.502	120.109	-37.785
3629	19.321	0.713	210.236	-106.583	3691	20.414	0.440	92.809	-75.194	3757	19.967	0.412	118.223	-36.609
3630	19.624	0.649	322.723	-104.219	3693	19.594	0.485	130.396	-70.611	3758	19.864	0.358	215.428	-34.832
3631	19.806	0.563	288.213	-104.647	3695	20.023	0.547	101.087	-70.730	3759	19.858	0.418	145.140	-35.609
3632	19.498	0.701	297.023	-103.732	3696	20.337	0.376	105.249	-70.609	3760	19.467	0.545	192.940	-34.396
3634	20.109	0.648	97.906	-102.285	3697	19.946	0.525	101.883	-66.489	3761	19.424	0.475	189.651	-33.613
3636	16.526	0.848	173.387	-104.396	3702	19.645	0.432	117.532	-61.217	3762	19.535	0.467	140.479	-34.777
3637	19.776	0.536	197.026	-102.832	3703	19.814	0.479	116.713	-58.411	3763	19.813	0.427	143.217	-31.674
3638	18.354	0.789	304.672	-100.813	3704	19.637	0.588	183.413	-69.721	3764	20.101	0.516	163.100	-34.547
3639	20.144	0.469	293.751	-99.215	3705	19.771	0.476	194.287	-67.836	3765	19.176	0.554	246.153	-31.991
3642	19.624	0.538	126.243	-100.917	3706	19.787	0.512	222.206	-67.574	3766	20.457	0.289	108.800	-33.981
3643	19.898	0.559	139.711	-100.455	3710	19.702	0.413	94.891	-60.351	3767	19.573	0.518	150.385	-32.823
3644	19.784	0.478	141.806	-98.132	3711	20.153	0.303	102.485	-60.330	3768	19.790	0.490	168.617	-32.804
3645	19.415	0.592	140.089	-94.711	3712	20.660	0.511	100.345	-58.581	3769	20.921	0.155	113.711	-31.726
3646	19.697	0.537	158.619	-99.091	3713	18.951	0.560	183.368	-63.700	3771	19.477	0.469	110.315	-28.179
3647	20.079	0.442	126.155	-96.157	3714	19.308	0.762	322.517	-60.813	3772	20.415	0.434	115.989	-26.717
3648	20.385	0.370	105.787	-95.521	3715	19.604	0.622	315.043	-59.445	3773	19.884	0.541	108.257	-27.140
3649	20.174	0.393	104.247	-93.606	3717	15.902	0.938	283.609	-57.732	3776	18.666	0.614	152.996	-30.509
3650	20.386	0.326	101.255	-92.172	3718	20.068	0.671	291.670	-58.106	3777	17.614	0.759	145.955	-24.706
3651	19.467	0.442	99.755	-90.157	3719	19.957	0.517	124.236	-58.685	3778	19.481	0.585	143.064	-22.932
3652	19.662	0.444	100.823	-86.828	3720	19.625	0.664	275.309	-53.751	3779	19.701	0.614	147.164	-21.645
3653	19.974	0.487	103.709	-84.877	3721	20.305	0.437	93.045	-56.460	3780	17.222	0.769	150.974	-19.247
3654	19.479	0.463	106.515	-84.534	3723	19.944	0.584	297.636	-52.368	3781	19.730	0.480	146.411	-17.017
3655	19.912	0.468	101.438	-83.421	3725	19.683	0.529	193.664	-52.666	3782	19.115	0.612	151.240	-15.266
3656	20.087	0.460	181.911	-94.094	3726	19.461	0.414	120.911	-54.174	3783	19.780	0.403	91.496	-24.281
3660	19.615	0.406	112.930	-89.519	3727	19.535	0.445	122.087	-52.147	3785	19.719	0.604	207.828	-22.394
3661	19.283	0.503	114.674	-87.853	3728	19.805	0.533	112.615	-52.981	3786	18.048	0.752	275.306	-20.530
3662	19.501	0.644	264.519	-90.130	3729	19.344	0.460	109.949	-52.000	3787	19.340	0.428	100.715	-23.811
3663	20.164	0.493	147.149	-90.455	3731	19.110	0.824	110.662	-45.736	3788	19.557	0.397	100.762	-21.391
3664	19.750	0.449	143.734	-89.255	3733	20.530	0.225	114.440	-41.817	3789	19.721	0.394	104.345	-20.743
3665	19.709	0.495	165.845	-89.223	3734	19.620	0.568	114.713	-39.532	3790	20.022	0.519	211.966	-21.453
3666	16.158	0.914	314.885	-86.638	3735	19.853	0.577	150.553	-51.877	3791	19.671	0.531	173.179	-20.987
3667	19.500	0.419	127.957	-89.219	3736	20.012	0.520	168.406	-51.094	3792	17.270	0.767	176.821	-20.151
3668	18.572	0.736	242.596	-85.289	3737	19.812	0.537	173.449	-51.383	3794	20.333	0.466	165.972	-16.896
3669	20.837	0.434	95.296	-86.166	3738	17.936	0.736	161.706	-51.043	3795	20.394	0.528	96.236	-16.668
3670	19.373	0.419	94.155	-83.213	3739	19.728	0.554	231.253	-49.200	3796	19.730	0.501	99.404	-13.949
3673	20.017	0.531	110.830	-86.115	3740	19.977	0.569	266.057	-48.411	3800	19.800	0.630	293.904	-14.115
3675	20.264	0.384	132.336	-84.749	3741	19.941	0.521	176.755	-48.183	3801	16.501	0.861	303.462	-13.945
3677	15.777	0.761	159.004	-84.160	3742	19.486	0.480	185.649	-48.330	3809	20.202	0.421	108.264	-12.581

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
3810	19.553	0.532	210.168	-10.151	4091	20.875	-0.012	102.238	-48.609	4153	20.234	0.486	-33.781	-331.462
3811	20.127	0.582	208.209	-9.647	4094	20.158	0.181	105.370	-38.826	4154	20.270	0.520	121.409	-325.355
3812	19.707	0.446	116.191	-11.060	4095	20.477	0.438	103.711	-37.309	4155	19.602	0.474	-72.547	-328.640
3814	19.389	0.615	115.989	-8.649	4098	18.461	0.701	99.683	-31.121	4156	19.847	0.409	-29.098	-327.428
3816	20.027	0.446	123.694	-7.994	4100	18.861	0.579	94.989	-41.368	4157	19.256	0.619	-26.583	-324.862
3817	18.334	0.774	113.840	-4.034	4101	18.635	0.670	91.374	-43.440	4158	16.903	0.840	12.968	-325.519
3819	19.802	0.445	116.962	-3.906	4102	19.982	0.363	99.704	-39.794	4159	20.070	0.411	-17.726	-321.417
3828	20.243	0.337	104.006	-9.104	4106	19.267	0.595	93.589	30.666	4160	20.487	0.413	7.796	-318.864
3830	20.375	0.614	156.985	-2.774	4107	20.749	0.342	99.687	25.030	4161	19.532	0.639	53.402	-317.691
3834	19.896	0.761	147.474	-4.428	4109	19.376	0.455	96.149	34.757	4162	20.134	0.459	-37.406	-316.098
3836	19.594	0.535	146.009	-3.079	4110	19.744	0.472	93.551	36.538	4163	20.150	0.478	12.834	-315.479
3837	20.110	0.618	150.402	-0.102	4111	20.164	0.406	92.647	38.766	4164	19.382	0.636	-7.883	-313.702
3838	19.339	0.572	95.983	-2.734	4115	20.157	0.270	37.862	-492.415	4165	20.032	0.509	-4.751	-311.077
3840	20.123	0.364	95.987	4.889	4116	14.966	1.113	-49.862	-491.083	4166	18.233	0.762	-14.562	-309.426
3841	20.010	0.383	98.745	3.143	4117	20.405	0.227	-44.926	-481.764	4167	19.536	0.498	-68.702	-306.947
3850	20.446	0.377	172.938	4.923	4118	19.819	0.434	-14.647	-471.057	4168	19.849	0.438	62.211	-303.621
3851	20.141	0.677	171.643	8.445	4119	19.512	0.484	27.257	-464.304	4169	16.535	0.704	71.223	-303.73
3857	17.460	0.712	121.919	12.800	4120	19.830	0.483	117.077	-460.894	4170	18.125	0.615	38.534	-303.336
3858	19.636	0.639	119.032	13.009	4121	20.078	0.628	113.109	-449.817	4171	19.936	0.447	-55.400	-303.753
3875	20.444	0.363	110.289	12.694	4122	20.305	0.488	28.934	-438.368	4172	19.955	0.460	13.645	-302.602
3877	20.163	0.436	92.126	13.566	4123	19.711	0.461	-8.377	-429.030	4173	19.743	0.454	-68.257	-302.564
3878	20.126	0.431	133.053	15.298	4124	19.462	0.558	120.719	-424.670	4174	20.093	0.469	-49.240	-302.604
3889	20.460	0.301	103.781	17.949	4125	18.153	0.775	-2.611	-426.591	4175	19.534	0.512	-33.083	-300.189
3891	20.825	0.567	106.874	20.730	4126	19.309	0.629	13.119	-423.649	4176	19.932	0.486	48.781	-292.072
3897	19.275	0.750	122.796	21.351	4127	17.780	0.785	96.630	-417.298	4177	16.672	0.635	113.434	-290.600
3898	20.399	0.451	124.479	22.238	4128	19.280	0.653	-4.589	-410.026	4178	19.515	0.544	114.132	-292.955
3899	19.927	0.368	129.689	21.672	4129	19.782	0.470	82.089	-405.283	4179	20.076	0.611	70.834	-289.783
3903	20.452	0.341	91.004	19.849	4130	19.373	0.624	-66.791	-392.028	4180	19.481	0.559	0.853	-291.128
3908	20.473	0.370	102.385	26.068	4131	19.681	-0.216	-101.589	-381.600	4181	19.095	0.709	82.236	-288.936
3924	20.194	0.510	178.666	37.909	4132	16.504	0.871	-96.491	-380.872	4182	20.341	0.581	123.183	-287.038
3930	19.922	0.375	109.336	39.260	4133	19.362	0.633	28.606	-377.402	4183	19.659	0.416	-46.526	-289.460
3931	20.476	0.398	108.838	43.715	4134	20.461	0.521	102.243	-372.809	4184	16.047	0.928	23.023	-287.832
3932	20.069	0.440	137.062	38.147	4135	19.931	0.490	22.860	-378.202	4185	20.012	0.550	67.051	-287.223
3941	19.685	0.496	122.236	47.643	4136	16.234	0.925	97.500	-363.523	4186	18.309	0.801	92.168	-286.721
3942	20.515	0.467	119.536	47.502	4137	17.491	0.813	-3.330	-364.932	4187	19.786	0.438	-99.519	-286.113
3945	19.856	0.451	153.002	55.072	4138	18.509	0.726	16.719	-363.049	4188	19.818	0.523	-94.796	-285.949
3947	20.161	0.458	150.809	57.498	4139	19.813	0.530	36.123	-356.617	4189	20.364	0.558	58.443	-282.038
3949	19.982	0.495	116.136	45.943	4140	18.315	0.791	104.036	-350.108	4190	20.406	0.577	-65.298	-283.506
3975	20.267	0.747	110.217	64.115	4141	18.981	0.676	78.762	-350.526	4191	16.778	0.843	-25.470	-281.470
3978	20.249	0.231	89.649	63.983	4142	16.282	0.900	-23.166	-346.485	4192	18.737	0.669	-7.660	-277.681
4001	20.055	0.460	110.547	79.255	4143	19.519	0.535	50.053	-347.523	4193	20.363	0.355	-8.789	-275.634
4011	20.936	0.338	88.362	89.251	4144	19.738	0.469	10.600	-347.538	4194	16.634	0.598	-37.747	-276.815
4019	19.840	0.643	106.772	94.406	4145	20.138	0.499	60.221	-346.087	4195	18.675	0.597	-26.574	-275.996
4025	20.305	0.328	91.204	97.291	4146	19.592	0.485	-50.198	-347.277	4196	20.259	0.461	-62.983	-275.200
4029	20.311	0.428	117.921	105.091	4147	20.035	0.437	-39.130	-341.500	4197	20.007	0.563	43.345	-269.987
4052	19.450	0.491	122.791	117.287	4148	19.738	0.499	-24.236	-340.451	4198	19.647	0.440	-75.464	-271.251
4061	20.140	0.509	91.011	121.451	4149	20.327	0.411	42.609	-338.126	4199	20.050	0.529	-19.236	-265.483
4062	20.032	0.563	93.851	121.302	4150	20.077	0.617	89.709	-336.234	4200	19.099	0.312	56.036	-263.453
4081	20.380	0.700	318.030	143.243	4151	19.028	0.629	-42.879	-336.847	4201	19.723	0.438	-90.123	-266.364
4088	20.101	0.644	232.579	145.153	4152	17.792	0.777	-39.887	-331.200	4202	16.587	0.219	-47.421	-264.989

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
4203	19.436	0.602	-2.783	-261.747	4274	20.009	0.457	-29.151	-209.311	4345	19.742	0.469	-11.440	-179.449
4204	19.218	0.374	90.026	-259.617	4276	20.137	0.708	-80.345	-209.577	4346	19.795	0.445	2.915	-179.051
4205	20.605	0.712	91.683	-260.345	4277	20.055	0.381	70.596	-206.411	4347	19.674	0.495	12.191	-177.611
4206	19.901	0.459	6.168	-259.883	4282	19.789	0.470	51.640	-204.521	4350	20.023	0.523	-69.047	-176.851
4207	19.687	0.475	-67.687	-260.774	4283	19.613	0.509	-26.423	-205.083	4352	19.560	0.517	-62.702	-174.366
4208	20.123	0.545	74.038	-257.079	4284	19.884	0.436	-21.868	-204.681	4353	19.295	0.563	75.417	-175.555
4209	20.133	0.537	-39.851	-259.070	4285	20.051	0.465	-2.213	-201.036	4354	19.988	0.643	72.589	-175.047
4210	19.420	0.550	33.617	-257.117	4286	20.008	0.637	53.981	-200.168	4357	20.305	0.464	114.587	-174.504
4211	20.107	0.506	93.474	-256.038	4288	20.260	0.494	81.681	-197.809	4358	20.043	0.491	47.096	-174.889
4213	20.397	0.692	4.023	-253.766	4292	19.531	0.511	-22.566	-197.255	4360	20.224	0.713	65.717	-174.330
4214	19.670	0.590	10.474	-253.083	4293	19.507	0.565	-17.096	-197.634	4361	20.241	0.444	-111.313	-177.936
4215	19.681	0.527	93.038	-251.764	4294	19.782	0.524	28.687	-196.185	4362	19.725	0.460	-95.264	-177.015
4216	20.386	0.496	-23.964	-253.113	4295	20.240	0.654	18.474	-195.462	4363	19.624	0.569	-33.204	-176.191
4217	20.314	0.695	35.753	-251.662	4296	19.786	0.539	21.296	-194.947	4364	20.129	0.452	-106.145	-177.103
4218	20.219	0.525	-64.994	-250.626	4297	20.195	0.413	-75.017	-196.896	4365	19.471	0.452	-40.106	-174.715
4219	19.857	0.519	31.481	-248.811	4298	20.000	0.449	5.034	-195.004	4366	19.814	0.587	12.887	-173.396
4220	19.596	0.541	65.438	-247.151	4299	19.914	0.465	7.087	-195.089	4367	20.038	0.506	-15.179	-173.385
4221	20.299	0.478	95.815	-245.966	4300	20.183	0.571	11.906	-195.440	4368	20.369	0.561	62.632	-172.030
4222	19.585	0.639	73.251	-246.189	4301	20.216	0.476	37.209	-194.845	4369	19.831	0.433	0.255	-172.128
4224	19.813	0.496	-23.447	-245.132	4302	19.677	0.576	42.698	-194.032	4373	20.469	0.453	-71.638	-172.396
4225	19.862	0.539	14.611	-243.806	4303	19.468	0.534	46.270	-192.791	4374	20.309	0.377	-71.257	-169.045
4228	20.056	0.526	4.970	-242.066	4304	20.360	0.469	48.568	-192.151	4375	19.673	0.627	-48.770	-170.955
4229	20.030	0.496	48.449	-240.547	4305	19.423	0.543	-81.521	-195.321	4376	20.041	0.581	-22.274	-170.887
4230	20.284	0.751	100.683	-238.723	4306	20.313	0.571	-89.238	-194.547	4377	19.252	0.611	-24.383	-169.400
4231	19.413	0.641	-3.379	-240.232	4309	20.161	0.642	80.489	-190.743	4378	19.898	0.413	-5.028	-169.823
4233	20.113	0.523	3.589	-236.017	4311	19.860	0.482	-97.662	-193.851	4381	20.141	0.625	-42.434	-169.449
4235	20.305	0.491	72.504	-232.228	4312	19.675	0.468	60.755	-190.026	4382	19.954	0.284	-40.621	-167.911
4238	20.196	0.456	-0.332	-228.419	4315	19.834	0.461	25.266	-187.977	4383	19.591	0.589	-14.236	-167.828
4239	19.514	0.543	-39.455	-230.785	4317	20.386	0.362	104.000	-184.389	4384	20.034	0.503	3.781	-168.034
4241	20.237	0.542	-4.689	-229.179	4319	19.918	0.514	-18.626	-189.585	4385	20.240	0.599	42.757	-166.768
4242	20.236	0.518	-51.698	-228.951	4320	20.373	0.512	-15.802	-189.104	4386	19.875	0.569	48.143	-166.349
4243	20.025	0.500	49.715	-227.411	4321	20.210	0.511	-14.568	-186.417	4388	19.656	0.489	-62.013	-167.477
4245	20.143	0.648	14.960	-225.685	4322	19.816	0.546	-11.847	-189.426	4391	20.345	0.413	0.468	-165.791
4247	20.108	0.427	77.638	-220.557	4323	19.717	0.483	-65.926	-189.949	4392	20.052	0.569	54.389	-163.921
4248	20.599	0.630	73.140	-219.470	4325	19.296	0.480	12.562	-187.411	4394	19.902	0.561	-23.123	-164.960
4252	19.488	0.533	33.634	-216.094	4326	20.070	0.556	-89.683	-189.117	4398	19.738	0.481	-3.532	-163.402
4253	19.997	0.626	95.070	-214.523	4329	19.580	0.527	-34.513	-185.477	4399	20.586	0.302	60.630	-161.940
4254	19.813	0.498	89.832	-213.398	4331	19.977	0.435	-9.587	-186.302	4400	20.425	0.722	59.468	-161.055
4255	19.952	0.523	47.702	-212.813	4332	19.791	0.440	38.053	-185.340	4403	20.080	0.467	-62.913	-162.453
4256	19.572	0.514	-61.034	-217.485	4333	20.048	0.437	40.881	-185.353	4404	20.213	0.508	50.470	-159.557
4258	20.199	0.315	-65.179	-211.585	4334	20.679	0.402	69.279	-184.587	4405	19.758	0.468	-50.698	-161.726
4259	19.924	0.489	-56.274	-213.974	4335	19.848	0.520	-70.077	-187.343	4406	19.943	0.426	-51.702	-159.434
4260	20.133	0.621	15.711	-211.830	4336	19.628	0.427	-64.374	-186.019	4408	19.939	0.480	17.883	-159.932
4261	20.220	0.508	112.083	-209.828	4337	19.653	0.514	47.904	-183.104	4409	20.142	0.339	18.760	-157.496
4263	20.198	0.471	120.555	-205.102	4338	20.110	0.449	61.604	-182.770	4410	20.309	0.522	20.209	-154.470
4267	19.779	0.510	-8.221	-207.728	4339	19.924	0.636	-3.953	-182.596	4411	20.415	0.534	22.489	-154.357
4268	20.160	0.584	-7.991	-212.957	4340	19.793	0.488	20.536	-181.821	4412	19.523	0.561	56.485	-159.274
4269	19.740	0.484	80.149	-208.921	4341	19.936	0.541	-81.940	-183.166	4413	20.329	0.582	63.215	-159.132
4270	18.955	0.705	-43.617	-211.204	4342	19.832	0.369	17.191	-181.060	4415	20.481	0.570	3.162	-159.138
4273	20.107	0.447	-96.994	-211.474	4344	19.673	0.560	-88.334	-181.285	4417	20.197	0.640	78.821	-156.564

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
4419	19.297	0.614	41.281	-155.794	4483	20.373	0.541	-8.766	-145.330	4557	19.609	0.496	-15.845	-133.153
4420	20.548	0.483	-47.085	-158.309	4484	20.347	0.453	54.570	-144.500	4558	19.758	0.450	-12.449	-132.549
4422	20.418	0.563	58.751	-155.762	4487	19.635	0.501	-60.649	-145.640	4560	18.414	0.708	-20.087	-124.949
4425	19.824	0.448	26.606	-156.251	4489	19.707	0.526	-57.994	-142.860	4561	19.110	0.566	-18.400	-131.223
4426	20.714	0.500	7.879	-155.489	4490	20.512	0.500	-55.617	-141.594	4562	19.501	0.499	-20.809	-126.753
4428	20.376	0.293	92.783	-151.464	4492	19.830	0.422	-37.253	-145.630	4563	20.521	0.258	25.366	-133.438
4431	19.699	0.528	-70.051	-156.451	4494	19.387	0.330	-36.298	-142.102	4564	20.441	0.443	22.274	-132.757
4432	20.705	0.464	-3.270	-154.755	4495	19.467	0.601	65.62	-142.504	4567	20.616	0.313	30.100	-130.603
4434	20.136	0.507	-0.396	-151.781	4496	20.230	0.527	64.726	-140.889	4568	20.242	0.404	32.209	-130.204
4435	20.464	0.445	14.317	-153.706	4497	20.186	0.569	84.226	-141.921	4569	20.203	0.448	27.915	-130.543
4436	19.800	0.44	15.255	-150.862	4498	19.846	0.515	9.634	-142.960	4570	20.581	0.570	41.081	-132.794
4437	19.888	0.492	7.211	-147.840	4499	19.913	0.354	11.300	-139.868	4571	19.882	0.455	42.234	-130.162
4438	20.387	0.622	18.883	-147.596	4502	20.965	0.134	-2.164	-142.304	4574	20.704	0.382	-102.177	-134.804
4439	20.033	0.597	-86.864	-155.196	4504	20.183	0.526	26.872	-140.557	4575	19.826	0.418	-104.219	-134.432
4440	19.521	0.498	-41.521	-154.213	4505	19.639	0.490	25.687	-137.296	4576	20.422	0.384	-67.751	-133.626
4441	20.771	0.638	-43.202	-153.943	4507	20.355	0.444	78.391	-139.255	4577	20.301	0.522	16.796	-131.557
4442	20.061	0.480	33.649	-152.062	4509	19.761	0.286	79.998	-135.115	4578	20.395	0.432	16.249	-128.449
4443	19.499	0.485	61.023	-151.517	4510	20.497	0.374	-41.777	-140.747	4579	19.873	0.569	13.381	-127.604
4444	20.135	0.412	-54.596	-153.030	4511	19.052	0.434	-40.674	-138.279	4582	18.230	0.756	13.174	-123.704
4445	20.416	0.461	-56.370	-151.587	4512	20.843	0.380	-39.360	-136.015	4583	19.777	0.617	10.200	-125.747
4446	20.045	0.197	-36.406	-152.738	4513	20.719	0.032	-38.100	-135.323	4587	20.413	0.566	83.277	-129.900
4447	20.164	0.494	-26.245	-152.970	4517	19.306	0.691	-24.162	-140.130	4590	19.937	0.319	-22.632	-131.332
4448	20.255	0.432	-26.051	-150.817	4518	20.219	0.678	-26.423	-138.974	4591	19.857	0.434	-8.898	-131.719
4449	19.642	0.405	-24.877	-152.432	4519	20.378	0.453	-22.168	-140.826	4592	20.007	0.586	-8.947	-129.666
4450	19.815	0.432	-108.343	-153.694	4520	20.468	0.496	46.655	-137.955	4593	19.672	0.200	-87.436	-131.606
4451	20.104	0.423	-70.645	-153.340	4522	19.236	0.461	-70.209	-139.821	4594	18.323	0.742	79.672	-127.628
4452	19.698	0.555	-18.125	-151.028	4523	19.703	0.534	-3.300	-138.487	4595	20.255	0.331	80.857	-124.655
4453	20.250	0.477	39.862	-149.802	4527	19.569	0.434	-1.996	-135.421	4596	20.817	0.637	80.468	-130.577
4455	20.118	0.504	-62.721	-150.840	4528	19.535	0.461	68.034	-137.372	4597	19.232	0.541	79.343	-129.232
4456	19.709	0.534	-30.930	-150.077	4529	20.203	0.577	70.743	-135.126	4598	19.611	0.506	-48.666	-130.283
4457	20.028	0.380	-28.568	-149.045	4530	20.281	0.268	-61.732	-139.170	4599	20.596	0.281	-29.294	-127.917
4458	19.764	0.472	-9.211	-149.304	4532	20.674	0.460	-28.823	-138.613	4600	20.104	0.390	-27.785	-126.340
4459	19.831	0.410	27.149	-148.543	4533	19.993	0.458	-30.619	-136.051	4601	19.866	0.427	-28.766	-124.266
4460	20.277	0.426	28.406	-146.619	4534	20.050	0.603	-34.172	-135.798	4602	19.553	0.471	-24.798	-123.836
4462	20.106	0.628	-73.040	-149.472	4536	19.689	0.401	-28.632	-132.304	4603	19.993	0.393	-31.298	-123.666
4463	19.973	0.539	21.777	-147.619	4537	20.009	0.405	-21.257	-136.068	4604	20.395	0.366	-29.238	-120.868
4466	20.148	0.360	61.909	-146.387	4538	20.719	0.374	-26.083	-135.789	4605	19.226	0.625	-0.468	-127.481
4467	19.377	0.191	60.230	-143.589	4539	19.515	0.521	46.081	-134.000	4606	19.271	0.594	86.589	-125.381
4468	20.509	0.429	62.170	-143.785	4540	19.800	0.328	47.953	-131.866	4607	19.806	0.376	-106.636	-128.745
4469	20.301	0.426	75.413	-146.119	4542	19.399	0.437	49.536	-125.440	4608	20.567	0.452	-104.664	-126.536
4471	19.400	0.450	-99.117	-146.532	4543	20.009	0.402	50.315	-123.283	4609	20.355	0.585	-71.306	-128.698
4472	19.598	0.451	-101.987	-144.298	4545	19.878	0.588	50.730	-117.962	4612	19.591	0.460	-37.440	-126.377
4473	19.804	0.514	-18.532	-147.132	4546	20.524	0.511	51.811	-115.526	4614	19.427	0.733	-58.672	-123.319
4474	20.017	0.492	-79.189	-147.123	4547	20.406	0.251	62.470	-132.604	4617	18.635	0.686	-56.266	-119.802
4476	19.989	0.581	91.304	-144.317	4549	19.367	0.484	-107.579	-136.987	4620	19.737	0.586	-62.383	-120.534
4477	20.011	0.442	88.332	-142.849	4551	19.522	0.423	-86.017	-135.730	4623	19.984	0.359	-41.221	-124.113
4478	19.815	0.292	87.204	-139.443	4553	20.234	0.444	-59.366	-132.370	4624	20.198	0.594	-42.315	-121.289
4479	19.852	0.546	-89.311	-146.872	4554	19.802	0.384	-62.013	-132.460	4627	20.491	0.631	-13.749	-125.468
4481	19.992	0.440	-88.800	-143.328	4555	20.391	0.419	-63.132	-134.487	4628	20.449	0.558	-12.021	-124.385
4482	19.906	0.404	-84.611	-143.766	4556	19.691	0.505	-13.902	-134.721	4629	20.500	0.540	58.421	-123.621

Table 1 (cont.)

N	V	B-V	X	Y	N	V	B-V	X	Y	N	V	B-V	X	Y
4630	19.845	0.363	61.417	-124.004	4653	19.781	0.496	-47.600	-122.055	4668	20.655	0.256	73.389	-115.809
4631	20.727	0.535	56.274	-121.602	4654	19.423	0.488	42.672	-119.779	4670	19.038	0.623	75.483	-113.068
4632	19.306	0.792	58.383	-119.940	4655	20.682	0.426	39.572	-118.106	4671	20.058	0.413	-96.672	-118.711
4634	20.700	0.307	60.345	-120.151	4656	20.306	0.584	38.383	-119.526	4672	20.127	0.451	-70.251	-117.704
4635	19.868	0.435	67.998	-121.334	4657	19.763	0.433	35.604	-117.891	4673	19.777	0.407	62.021	-114.772
4637	19.674	0.613	-80.183	-127.819	4660	19.864	0.454	89.957	-114.902	4674	19.970	0.482	64.677	-114.351
4638	19.698	0.448	-3.881	-124.915	4661	20.403	0.611	119.079	-116.666	4676	20.322	0.385	-20.962	-115.909
4643	19.691	0.502	-75.064	-125.587	4664	19.257	0.695	-14.787	-115.470	4678	20.017	0.561	-78.340	-116.713
4646	19.612	0.544	80.181	-120.379	4665	19.874	0.903	-13.934	-118.217	4679	19.848	0.515	-65.362	-116.581
4650	19.437	0.463	8.017	-121.187	4666	19.789	0.419	28.157	-117.479	4680	19.605	0.519	-36.783	-115.615
4651	21.011	0.121	9.432	-117.917	4667	19.443	0.498	-5.432	-117.032	4683	18.915	0.520	-106.370	-496.104
4652	20.334	0.323	10.983	-115.834										