

## CATALOG OF LUMINOUS STARS IN THE SOUTHERN COAL-SACK ZONE

H.G. Marraco<sup>1</sup>

Steward Observatory, University of Arizona and  
Observatorio Astronómico

Universidad Nacional de La Plata, Argentina

and

A.M. Orsatti

Observatorio Astronómico  
Universidad Nacional de La Plata, Argentina

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### RESUMEN

Se compiló un catálogo que incluye a todas las estrellas luminosas en la zona  $300^\circ \leq l \leq 308^\circ$ ,  $-10^\circ \leq b \leq 10^\circ$  y se presenta en la Tabla 1. También se hizo una búsqueda en la literatura de tipos espectrales MK, fotometría *UBV*, índices beta, velocidades radiales y polarimetría para estas estrellas y se presenta en la Tabla 2.

### ABSTRACT

A catalog including all the luminous stars in the zone  $300^\circ \leq l \leq 308^\circ$ ,  $-10^\circ \leq b \leq 10^\circ$  was compiled and is presented in Table 1. A search in the literature was also made for MK spectral types, *UBV* photometry, beta indices, radial velocities, and polarimetry for these stars and is presented in Table 2.

**Key words:** STARS-EARLY TYPE-PHOTOMETRY-SPECTROSCOPY – RADIAL VELOCITIES – GALACTIC STRUCTURE

### I. INTRODUCTION

The Coal-Sack zone of the Milky-Way, located at galactic longitude  $303^\circ$ , has received particular attention since Rodgers' (1960) study of its absorption. Later Tapia (1975) and more recently Bok, Sim and Hawarden (1977), Smith and Sim (1980) and Jones *et al.* (1980) have concentrated their efforts on certain particular areas of high obscuration. The visual absorption is 1-1.5 mag over most parts of the cloud but can reach to as much as 5 mag in some dense globules.

Searches for emission stars in the Coal-Sack itself were conducted by Hidajat (1962), and by The (1962); more recently by Weaver (1974) and Gómez and Mendoza (1976). No stars associated with the cloud were found.

Houck (1956), Mc Carthy and Miller (1973), Humphreys (1973), Muzzio, Marraco and Feinstein (1974), Muzzio, Feinstein and Orsatti (1976), Muzzio and Orsatti (1977) and Muzzio (1979) have studied the galactic structure behind this nearby dark cloud. The spiral tracers are detected to 5 kpc and the results indicate the presence of a major spiral arm in this

direction. At least two clusters lie within the boundaries of the Coal-Sack: NGC 4609 and Hogg 15 (Feinstein and Marraco 1971; Moffat 1974).

During the galactic structure studies carried out at La Plata Observatory (Muzzio *et al.* 1974, 1976, 1977; Muzzio 1979) a catalog of high luminosity stars located behind the Coal-Sack was compiled from a search of related literature. Later, the searches were extended to cover all objective prism surveys in a rectangular area  $20^\circ \times 8^\circ$  in galactic coordinates.

The catalog produced was kept updated in Hollerith cards until 1980 when the searches in the literature were finished and the data screened once more for identification errors. The data included in the second part of the catalog is hoped to be complete up to mid 1978.

### II. DESCRIPTION OF THE CATALOG

All known OB and high luminosity stars in the galactic longitude interval  $300^\circ$ - $308^\circ$  and with galactic latitudes less than  $10^\circ$  are listed. That makes a total of 770 stars.

The catalog consists of two parts: Table 1, containing the cross-identifications, and Table 2, the observational data.

1. Member of the Carrera del Investigador Científico, Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina.

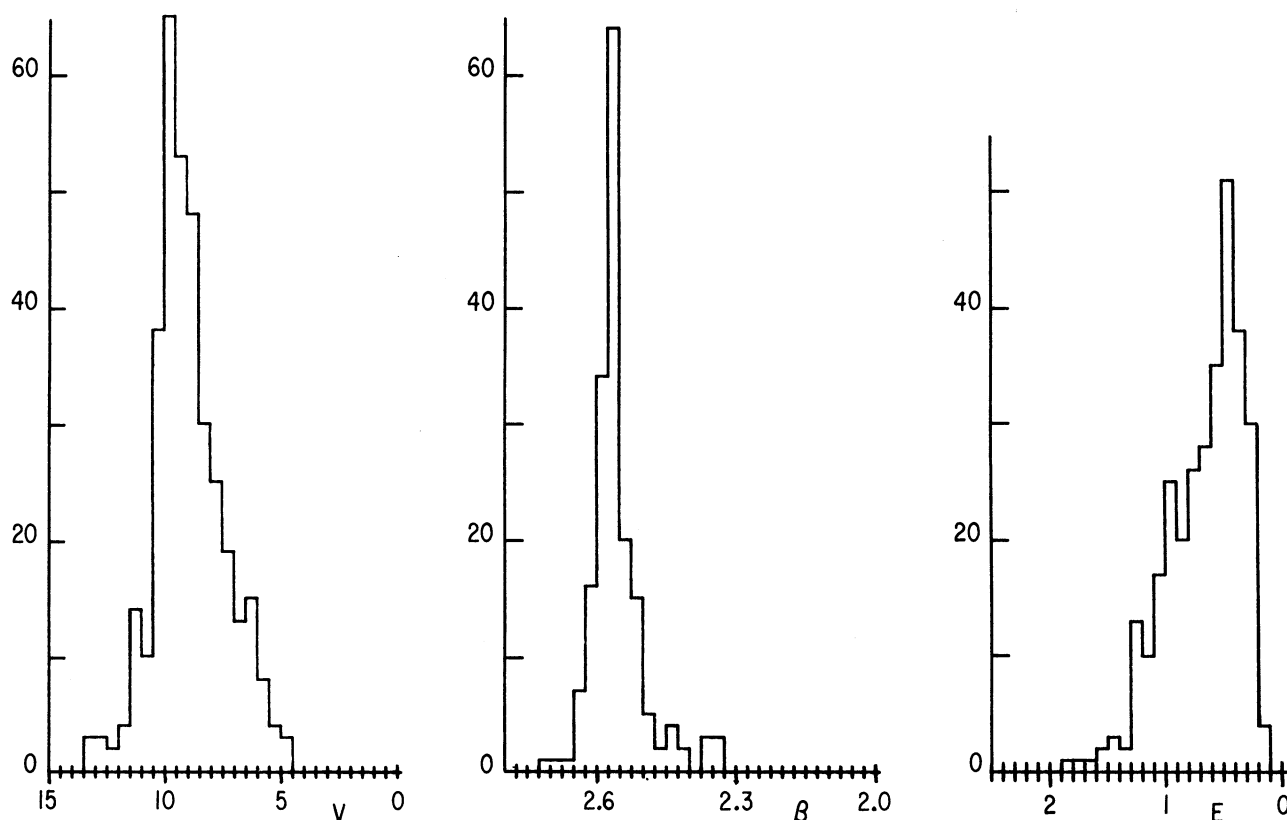


Fig. 1. Distribution of the visual apparent magnitude  $V$ . Fig. 2. Distribution of the beta-index. Fig. 3. Distribution of the color excess  $E(B-V)$ . An intrinsic color index  $(B-V)_0 = 0.30$  has been adopted for all the stars.

The layout of Table 1 assigns one line for each star. All the listings of early-type stars in the zone were inter-compared and the proper identifications checked with charts and positions whenever available. In addition the Henry Draper and Durchmusterung numbers were added when known. Additional information included in the HD, CPD and early-type listings were also included as it was considered of interest for a proper identification of the stars.

Coordinates are given for the epoch 1980.0; galactic coordinates are taken from the early-type listings or calculated from the equatorial coordinates when not available. The galactic coordinates are given to the hundredths of a degree. Table 1 is arranged in order of increasing galactic longitude.

Table 2 gives all known observational data for the stars listed in Table 1: MK spectra,  $UBV$  or  $UBV_c$  photometries, radial velocity, H-Beta line photometry and wide band polarimetry.

The first column designates the star and each star may have as many lines as necessary to accommodate the entries of item which is most observed, usually the spectral type or the photometry. Whenever possible the HD designation was preferred but when this was not available the designation was taken from the Cape

Photographic Durchmusterung or the LS, KS, Ly or MO number in this order of preference.

The explanation of Table 2 follows: The numbers under the labels Ref correspond to the references in the literature from which the preceeding columns were obtained. These references are listed at the end of Table 2. In addition to the bibliographical reference they include the complete title of the cited work enclosed between quotes (''). This practice provides more information to the reader who seeks additional data and avoids ambiguities on its nature.

The column labelled STAR carries the star's identification. The MK spectral types are labelled SPECTRAL TYPE. The column headed by RV gives the heliocentric radial velocity. The usual symbols  $V$ ,  $B - V$  and  $U - B$  are used to indicate the apparent magnitude and the colors in the standard and Cape  $UBV$  systems. When the color is  $(U - B)_c$  a  $c$  is appended to the  $U - B$  value. The percentage of polarization and the position angle in the equatorial system are labelled P(%) and PA respectively. Finally the word BETA is used to indicate the beta-index value.

Everywhere in this table the values are copied as in the original sources with no decimal points or trailing zeros added. This is quite noticeable in the RV and PA columns as some figures are presented as integer values

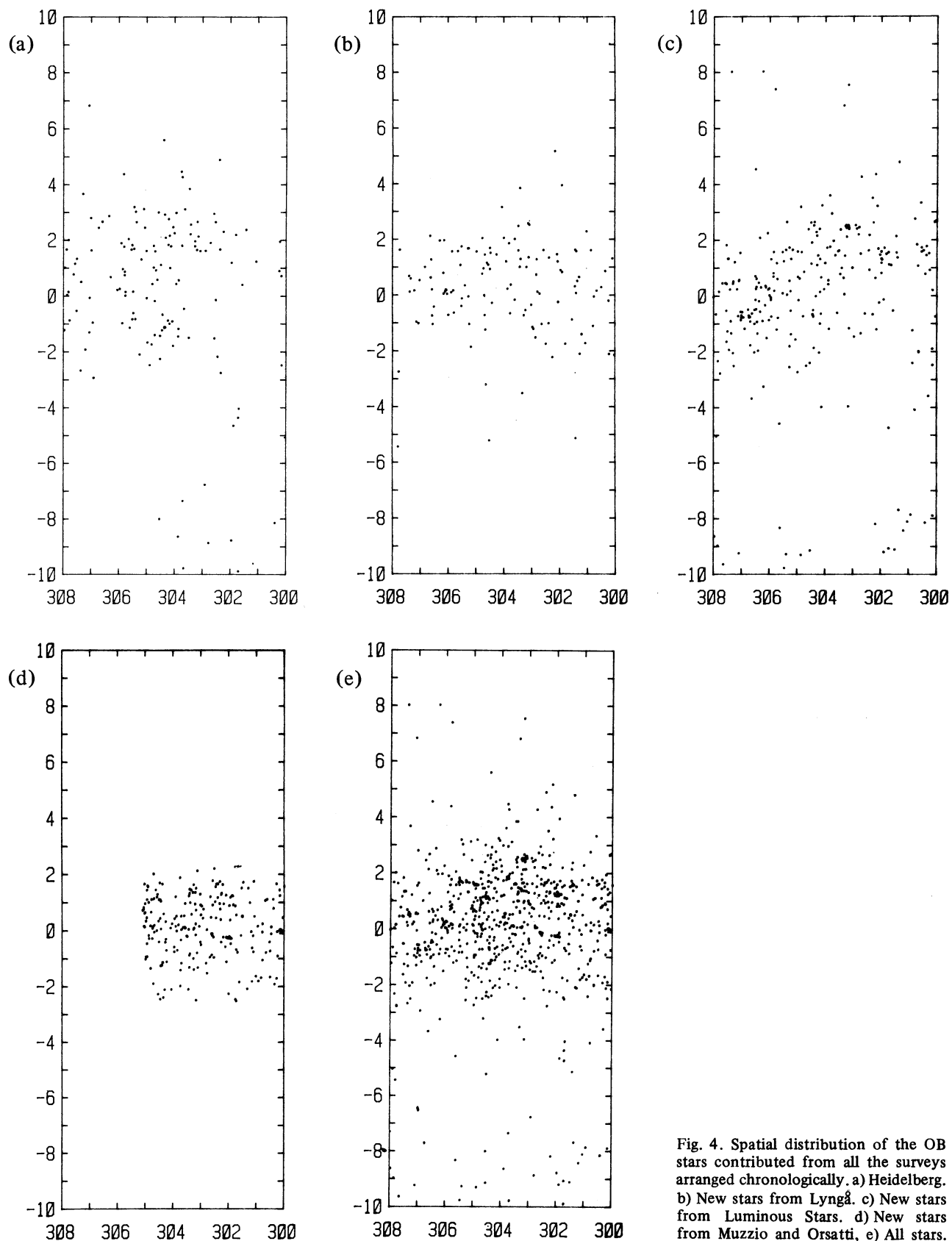


Fig. 4. Spatial distribution of the OB stars contributed from all the surveys arranged chronologically. a) Heidelberg. b) New stars from Lyngå. c) New stars from Luminous Stars. d) New stars from Muzzio and Orsatti, e) All stars.

giving a misleading appearance to these particular columns. The colon stands for low precision values in the sense given in the original sources.

### III. STATISTICS

Only one half of the 770 luminous stars listed in Table 1 are listed in Table 2, and of course the fainter stars lack astrophysical data. The overwhelming majority of the entries to Table 2 are labelled with HD numbers, but the column of HD numbers in Table 1 is scarcely populated. Some bright HD stars have up to eight different *UBV* measurements while most of the non-HD stars are missing from Table 2. This situation shows clearly the need of larger telescopes for galactic structure research and at the same time shows the usefulness of listings like the present one in helping to avoid duplication of existing data.

In order to clarify this situation Table 3 contains the information concerning how many times each of the 770 stars has been measured in each particular category of astrophysical data. The headings are self explanatory.

The worst cases are those corresponding to MK spectral types and *UBV* photometry in which the number of stars measured repeatedly is a substantial fraction of the total. On the other hand the polarization and the Beta indices have been measured in a more orderly way: most of the data come from References 53 and 34 in Table 2. The radial velocity measures have not been duplicated frequently, but they are very few.

Figure 1 shows the distribution of the observed apparent magnitude, *V*. The distribution of the Beta-index is depicted in Figure 2. Assuming  $(B - V)_0 = -0.30$  for all the OB stars the color excess  $E(B - V)$  distribution is shown in Figure 3. These distributions are peaked at 9.5, 2.57 and 0.40 respectively. With the only exception of some emission stars, that reach Beta values of about 2.35, the peaked distribution of the Beta indices indicates an average absolute magnitude of about  $-5.0$ .

Figure 4 shows the contribution of the different surveys to information on the OB stars in the Coal-Sack zone. They are depicted in chronological order of publication. Figure 4a is a plot of the spatial location of the Heidelberg (Reference 32) survey. The newly discovered

OB stars by Lyngå (Reference 31) are shown in Figure 4b. The contribution of new stars by the Luminous Stars Catalog (Reference 23) appears in Figure 4c. Figure 4d shows the stars added by Muzzio and Orsatti (1977) and finally Figure 4e contains all of the 770 stars.

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TABLE 1  
CATALOG OF LUMINOUS STARS IN THE COAL-SACK

| HD/HDE | m          | ST        | CPD      | m     | 1980.0     |            | l         | b        | LS    | ST         | m          | KS        | ST     | Ly    | ST   | MO   | ST    | V     | B-V   |      |     |       |       |       |      |
|--------|------------|-----------|----------|-------|------------|------------|-----------|----------|-------|------------|------------|-----------|--------|-------|------|------|-------|-------|-------|------|-----|-------|-------|-------|------|
|        |            |           |          |       | Alpha      | Delta      |           |          |       |            |            |           |        |       |      |      |       |       |       |      |     |       |       |       |      |
| 108485 | 7.6        | A0        | -59 4237 | 8.7   | 12 25 54.6 | -61 3 15   | 299.99    | 1.57     |       |            |            |           |        |       |      | 7    | OB-:  | 13.71 | 0.70  |      |     |       |       |       |      |
|        |            |           |          |       | 12 22 41.4 | -64 44 58  | 300.02    | -2.14    |       |            |            |           |        |       |      | 124  | OB+   |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 12 26 59.7 | -59 55 37  | 300.02    | 2.70     | 2681  | A2II       | 7.9        |           |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 12 25 26.5 | -62 9 0    | 300.04    | 0.47     |       |            |            |           |        |       |      | 2    | OB-   | 12.75 | 0.3:  |      |     |       |       |       |      |
|        |            |           |          |       | 12 24 59.6 | -62 42 35  | 300.05    | -0.09    |       |            |            |           |        |       |      | 1    | OB+:  | 12.6: | 0.5:  |      |     |       |       |       |      |
|        |            |           |          |       | 9.9        | 12 24 28.0 | -63 21 24 | 300.05   | -0.74 | 2673       | OB-        | 11.3      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 9.6        | 12 27 16.1 | -59 57 51 | 300.06   | 2.67  | 2682       | OB-        | 10.7      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 9.4        | 12 27 25.8 | -59 58 23 | 300.08   | 2.66  | 2683       | OB-        | 10.2      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 9.5        | 12 26 33.8 | -61 18 40 | 300.09   | 1.32  | 2679       | OBce       | 10.4      |        |       | 129  | OB   |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 9.4        | 12 27 29.2 | -59 58 51 | 300.09   | 2.65  | 2685       | OB         | 9.7       |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 25 30.3 | -62 39 35 | 300.10   | -0.04 |            |            |           |        |       |      | 3    | OB :  | 10.55 | 1.46  |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 25 41.3 | -62 35 45 | 300.11   | 0.03  |            |            |           |        |       |      | 5    | OB+:  | 13.7: | 0.8:  |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 25 44.3 | -62 42 41 | 300.13   | -0.08 |            |            |           |        |       |      | 6    | OB+   | 12.53 | 0.40  |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 16 50.9 | -70 28 14 | 300.14   | -7.89 | IA43       | OB1        | 12.5      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 25 58.3 | -62 35 18 | 300.15   | 0.04  |            |            |           |        |       |      |      | 9     | OB+   | 13.11 | 0.93 |     |       |       |       |      |
|        |            |           |          |       | 108002     | 7.3        | B1p       | -64 1898 | 7.2   | 12 23 48.0 | -65 6 3    | 300.16    | -2.48  | 2668  | OB   | 7.6  | 694   | OB+   |       |      |     |       |       |       |      |
| 9.2    | 12 23 53.4 | -65 5 23  | 300.16   | -2.47 |            |            |           |          |       | 2670       | OB-        | 10.9      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        | 12 24 26.4 | -64 31 00 | 300.16   | -1.89 |            |            |           |          |       | 2672       | OB-        | 10.9      |        |       |      |      |       |       |       |      |     |       |       |       |      |
| 9.8    | 12 26 11.7 | -62 25 29 | 300.16   | 0.21  |            |            |           |          |       | 2678       | OB-:       | 12.0      |        |       |      |      |       |       |       |      |     |       |       |       |      |
| 8.8    | 12 26 43.0 | -61 55 5  | 300.17   | 0.72  |            |            |           |          |       | 2680       | OB         | 8.8       | 697    | OB    |      |      |       |       |       |      |     |       |       |       |      |
| 9.9    | 12 23 46.5 | -64 43 52 | 300.21   | -2.11 |            |            |           |          |       |            |            |           |        |       | 127  | OB   |       |       |       |      |     |       |       |       |      |
| 108639 | 7.86       | B0        | -60 4047 | 8.3   |            |            |           |          |       | 12 28 2.2  | -60 41 35  | 300.22    | 1.95   | 2687  | OB   | 8.1  | 699   | OB    |       |      |     |       |       |       |      |
|        |            |           |          |       |            |            |           |          |       |            | 12 26 41.4 | -62 25 57 | 300.23 | -0.20 |      |      |       |       |       | 130  | OB+ | 11    | OB-   | 11.76 | 0.32 |
|        |            |           |          |       |            |            |           |          |       |            | 12 25 57.4 | -63 32 3  | 300.23 | -0.90 |      |      |       |       |       |      |     | 8     | OB-   | 11.39 | 0.14 |
|        |            |           |          |       |            |            |           |          |       |            | 12 27 29.8 | -61 44 34 | 300.24 | 0.90  | 2684 | OB   | 9.7   | 698   | OB    |      |     |       |       |       |      |
|        |            |           |          |       |            |            |           |          |       |            | 12 26 51.3 | -62 40 22 | 300.25 | -0.03 |      |      |       |       |       |      |     | 12    | OB    | 12.21 | 0.61 |
|        |            |           |          |       |            |            |           |          |       |            | 12 27 38.7 | -61 43 1  | 300.26 | 0.93  | 2686 | B7Ia | 11.9  |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            |            |           |          |       |            | 12 25 32.0 | -64 19 47 | 300.26 | -1.70 |      |      |       |       |       |      |     | 4     | OB :  | 13.05 | 0.6: |
|        |            |           |          |       |            |            |           |          |       |            | 12 28 18.5 | -60 58 29 | 300.27 | 1.67  |      |      |       |       |       |      |     | 16    | OB    | 12.36 | 1.08 |
|        |            |           |          |       |            |            |           |          |       | 9.2        | 12 28 14.8 | -61 6 47  | 300.28 | 1.53  | 2688 | OB-  | 9.7   |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            |            |           |          |       | 9.9        | 12 24 5.9  | -66 12 40 | 300.30 | -3.58 | 2671 | OB-  | 10.5  |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 26 4.2  | -64 32 44 | 300.34   | -1.91 |            |            |           |        |       |      |      | 10    | OB-   | 13.89 | 0.74 |     |       |       |       |      |
|        |            |           |          |       |            | 12 28 19.1 | -61 47 11 | 300.35   | 0.86  | 2690       | OB-        | 11.9      |        |       | 131  | OB   |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 8.1        | 12 29 11.8 | -60 52 41 | 300.37   | 1.78  | 2696       | F3II       | 7.3       |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 28 32.7 | -61 51 7  | 300.38   | 0.80  |            |            |           |        |       |      |      | 18    | OB    | 12.6+ | 1.2+ |     |       |       |       |      |
|        |            |           |          |       | 10.2       | 12 29 1.0  | -61 11 51 | 300.38   | 1.46  | 2694       | OB+        | 11.9      |        |       |      |      | 24    | OB0   | 11.78 | 0.48 |     |       |       |       |      |
|        |            |           |          |       | 108773     | 6.82       | F0        | -60 4070 | 8.1   | 12 28 51.2 | -61 32 13  | 300.39    | 1.12   |       |      |      |       |       |       |      | 21  | OB-   | 12.03 | 0.34  |      |
|        | 12 19 35.1 | -70 45 13 | 300.40   | -8.14 |            |            |           |          |       | 2647       | OBnn       | 10.6      | 682    | OB    |      |      |       |       |       |      |     |       |       |       |      |
|        | 12 19 34.7 | -70 45 10 | 300.41   | -8.14 |            |            |           |          |       | IA44       | OB1        | 10.1      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        | 12 28 52.0 | -61 51 44 | 300.42   | 0.79  |            |            |           |          |       | 2693       | OB         | 11.9      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        | 12 28 35.5 | -62 45 52 | 300.46   | -0.11 |            |            |           |          |       |            |            |           |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        | 12 28 44.7 | -62 30 56 | 300.46   | 0.14  |            |            |           |          |       |            |            |           |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        | 12 29 58.1 | -61 2 15  | 300.48   | 1.63  |            |            |           |          |       | 2697       | OB-        | 11.5      |        |       |      |      |       |       |       |      |     |       |       |       |      |
| 9.8    | 12 29 7.6  | -62 22 17 | 300.49   | 0.29  |            |            |           |          |       | 2695       | OB+        | 11.3      |        |       | 132  | OB+  |       |       |       |      |     |       |       |       |      |
|        | 12 28 27.8 | -63 22 36 | 300.50   | -0.72 |            |            |           |          |       |            |            |           |        |       |      |      | 17    | OB-   | 11.60 | 0.35 |     |       |       |       |      |
|        | 12 27 43.0 | -64 18 28 | 300.50   | -1.65 |            |            |           |          |       |            |            |           |        |       |      |      | 15    | OB    | 11.56 | 1.86 |     |       |       |       |      |
|        | 12 28 55.4 | -63 3 54  | 300.52   | -0.40 |            |            |           |          |       |            |            |           |        |       |      |      | 23    | OB+:  | 12.69 | 1.24 |     |       |       |       |      |
| 9.1    | 12 30 31.8 | -61 5 1   | 300.55   | 1.59  |            |            |           |          |       | 2698       | OB-        | 9.7       |        |       |      |      |       |       |       |      |     |       |       |       |      |
| 9.0    | 12 30 36.1 | -60 55 38 | 300.55   | 1.74  |            |            |           |          |       | 2700       | OB         | 9.2       |        |       |      |      |       |       |       |      |     |       |       |       |      |
| 8.6    | 12 31 49.9 | -59 19 56 | 300.58   | 3.34  |            |            |           |          |       | 2704       | OB:        | 8.2       |        |       |      |      | 30    | OB    | 12.21 | 0.87 |     |       |       |       |      |
| 108719 | 9.3        | B0        | -64 1942 | 9.1   |            |            |           |          |       | 12 30 41.1 | -61 33 13  | 300.61    | 1.12   |       |      |      |       |       |       | 25   | OB- | 13.65 | 0.65  |       |      |
|        |            |           |          |       |            |            |           |          |       | 12 29 46.6 | -63 26 26  | 300.65    | -0.77  |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 12 28 49.7 | -64 40 33  | 300.65    | -2.01    | 2691  | OB-        | 11.4       |           |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 12 28 53.5 | -64 38 39  | 300.65    | -1.98    | 2692  | OB-        | 12.4       |           |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 12 30 30.1 | -62 30 56  | 300.66    | 0.16     |       |            |            |           |        | 133   | OB+  | 27   | OB :  | 11.11 | 1.03  |      |     |       |       |       |      |
| 109164 | 8.16       | B5        | -61 3264 | 10.1  | 12 31 14.7 | -61 36 6   | 300.68    | 1.08     |       |            |            |           |        |       | 31   | OB+  | 11.83 | 0.53  |       |      |     |       |       |       |      |
|        |            |           |          |       | 8.5        | 12 31 16.0 | -61 35 59 | 300.68   | 1.08  | 2702       | OB+        | 11.2      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 32 2.6  | -60 50 9  | 300.72   | 1.85  | 2705       | OB         | 8.1       |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 9.2        | 12 32 6.1  | -60 50 3  | 300.72   | 1.85  | 2706       | OB         | 9.7       |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 9.7        | 12 31 16.4 | -62 43 58 | 300.76   | -0.05 | 2701       | OBle       | 11.3      |        |       | 135  | OB+  |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 31 30.8 | -62 25 58 | 300.77   | 0.25  |            |            |           |        |       |      |      | 33    | OB :  | 12.34 | 1.38 |     |       |       |       |      |
|        |            |           |          |       |            | 12 30 40.8 | -63 43 26 | 300.77   | -1.04 |            |            |           |        |       |      |      | 29    | OB :  | 14.42 | 0.99 |     |       |       |       |      |
|        |            |           |          |       |            | 12 31 24.8 | -62 43 36 | 300.78   | -0.04 |            |            |           |        |       |      |      | 32    | OB-   | 13.19 | 0.88 |     |       |       |       |      |
|        |            |           |          |       | 8.1        | 12 28 21.5 | -66 45 1  | 300.78   | -4.08 | 2689       | OB         | 8.5       |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 30 48.8 | -63 46 56 | 300.79   | -1.11 |            |            |           |        |       | 134  | OB   |       |       |       |      |     |       |       |       |      |
| 108659 | 8.2        | B3        | -66 1783 | 8.1   | 12 33 6.9  | -59 55 15  | 300.79    | 2.77     | 2709  | OB-        | 9.7        |           |        |       |      | 28   | OB-   | 13.55 | 0.84  |      |     |       |       |       |      |
|        |            |           |          |       | 9.2        | 12 30 38.6 | -64 21 9  | 300.82   | -1.67 |            |            |           |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 9.0        | 12 33 7.4  | -61 4 41  | 300.86   | 1.61  | 2708       | OB-        | 9.9       |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 10.0       | 12 30 36.3 | -65 5 4   | 300.87   | -2.40 | 2699       | OB+h       | 11.4      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       | 9.8        | 12 31 29.1 | -63 54 52 | 300.87   | -1.23 | 2703       | OB         | 10.9      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 31 33.3 | -64 28 41 | 300.92   | -1.79 |            |            |           |        |       |      |      | 34    | OB-   | 13.63 | 0.93 |     |       |       |       |      |
|        |            |           |          |       |            | 12 26 2.8  | -70 30 54 | 300.92   | -7.85 | IA46       | A3Ib       | 12.7      |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 32 58.9 | -62 31 16 | 300.94   | 0.17  |            |            |           |        |       |      |      | 36    | OB+:  | 12.34 | 0.90 |     |       |       |       |      |
|        |            |           |          |       |            | 12 32 30.4 | -64 18 52 | 301.01   | -1.62 |            |            |           |        |       |      |      | 35    | OB-   | 12.68 | 0.72 |     |       |       |       |      |
|        |            |           |          |       |            | 12 37 20.4 | -70 46 42 | 301.04   | -8.10 | IA50       | A0Ib       | 11.9      |        |       |      |      |       |       |       |      |     |       |       |       |      |
| 109505 | 8.4        | B3        | -60 4170 | 8.4   | 12 32 59.7 | -64 24 57  | 301.07    | -1.72    | 2707  | OB         | 11.1       |           |        |       |      | 40   | OB-   | 12.59 | 0.47  |      |     |       |       |       |      |
|        |            |           |          |       | 9.4        | 12 34 13.0 | -62 10 49 | 301.07   | 0.52  |            |            |           |        |       |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 34 37.7 | -61 27 43 | 301.07   | 1.24  | 2712       | OB         | 8.5       | 701    | OB    |      |      |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 34 42.7 | -60 24 53 | 301.02   | 2.29  | 2713       | OB         | 10.7      |        |       | 141  | OB+  |       |       |       |      |     |       |       |       |      |
|        |            |           |          |       |            | 12 35 2.5  | -60 56 34 | 301.09   | 1.76  |            |            |           |        |       |      |      | 43    | OB-   | 11.87 | 0.44 |     |       |       |       |      |
|        |            |           |          |       |            | 12 33 49.3 | -63 26 45 | 301.10   | -0.74 |            |            |           |        |       |      |      | 38    | OB-:  | 12.61 | 1.10 |     |       |       |       |      |

TABLE 1 (CONTINUED)

| 1980.0 |      |      |          |      |       |             |    |              |      |      |      |     |     |     |     |    |      |        |        |
|--------|------|------|----------|------|-------|-------------|----|--------------|------|------|------|-----|-----|-----|-----|----|------|--------|--------|
| HD/HDE | m    | ST   | CPD      | m    | Alpha | Delta       | l  | b            | LS   | ST   | m    | KS  | ST  | Ly  | ST  | MO | ST   | V      | B-V    |
|        |      |      |          |      | 12 34 | 12.1 -62 52 | 39 | 301.11 -0.17 |      |      |      |     |     |     |     | 39 | OB : | >12.17 | <1.28  |
|        |      |      |          |      | 12 34 | 20.7 -63 18 | 20 | 301.15 -0.60 |      |      |      |     |     |     |     | 41 | OB-  | >12.39 | <0.8:  |
|        |      |      |          |      | 12 33 | 35.8 -64 30 | 27 | 301.15 -1.80 |      |      |      |     |     |     |     | 37 | OB+: | 13.04  | 0.78   |
|        |      |      |          |      | 12 34 | 55.2 -62 43 | 51 | 301.18 -0.02 |      |      |      |     |     |     |     | 42 | OB+: | 13.95  | 0.76   |
|        |      |      |          |      | 12 28 | 32.4 -71 6  | 32 | 301.18 -8.42 | IA48 | A0II | 11.4 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 34 | 22.3 -64 6  | 40 | 301.20 -1.40 | 2711 | OBh  | 10.7 |     |     | 139 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 35 | 53.5 -61 42 | 10 | 301.23 1.01  |      |      |      |     |     |     |     | 45 | OB-: | 12.41  | 0.92   |
|        |      |      |          |      | 12 34 | 32.6 -64 48 | 55 | 301.27 -2.10 |      |      |      |     |     | 140 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 35 | 46.0 -62 3  | 54 | 301.29 0.65  |      |      |      |     |     | 142 | OB  |    |      |        |        |
|        |      |      |          |      | 12 36 | 36.8 -61 12 | 11 | 301.29 1.52  |      |      |      |     |     |     |     | 46 | OB   | 13.15  | 0.97   |
|        |      |      |          |      | 12 35 | 4.7 -64 46  | 54 | 301.32 -2.07 |      |      |      |     |     |     |     | 44 | OB+  | 13.50  | 1.08   |
|        |      |      |          |      | 12 36 | 38.2 -62 12 | 46 | 301.35 0.51  | 2714 | OB   | 10.5 |     |     | 143 | OB  |    |      |        |        |
|        |      |      |          |      | 12 31 | 26.5 -70 23 | 7  | 301.36 -7.68 | IA49 | B9II | 11.9 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 38 | 26.8 -57 55 | 17 | 301.36 4.80  | 2727 | OB   | 11.9 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 37 | 26.7 -61 8  | 36 | 301.39 1.58  | 2717 | OBh  | 10.6 |     |     | 146 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 36 | 55.8 -62 38 | 32 | 301.40 0.08  | 2715 | OB+h | 11.9 |     |     | 144 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 37 | 30.3 -61 20 | 20 | 301.41 1.38  | 2719 | OB-1 | 10.6 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 34 | 10.4 -67 50 | 55 | 301.42 -5.13 |      |      |      |     |     | 138 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 37 | 46.9 -61 5  | 53 | 301.43 1.63  | 2721 | OB   | 10.3 |     |     | 147 | OB  |    |      |        |        |
|        |      |      |          |      | 12 38 | 3.9 -60 20  | 47 | 301.43 2.38  | 2723 | OB+  | 10.4 | 705 | OB  | 145 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 37 | 20.3 -62 24 | 53 | 301.44 0.32  |      |      |      |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 37 | 55.2 -61 9  | 45 | 301.45 1.56  | 2722 | OB   | 11.2 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 38 | 14.4 -60 34 | 42 | 301.46 2.15  | 2725 | OB-1 | 11.0 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 38 | 12.5 -60 59 | 44 | 301.47 1.73  |      |      |      |     |     |     |     | 52 | OB-  | 13.17  | 0.71   |
|        |      |      |          |      | 12 37 | 48.3 -62 12 | 51 | 301.49 0.51  |      |      |      |     |     |     |     | 47 | OB-  | 12.49  | 0.54   |
|        |      |      |          |      | 12 31 | 39.2 -71 48 | 51 | 301.49 -9.10 | IA66 | B7II | 11.6 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 37 | 54.5 -62 11 | 7  | 301.50 0.54  |      |      |      |     |     |     |     | 48 | OB+  | 12.49  | 1.62   |
|        |      |      |          |      | 12 38 | 4.5 -62 11  | 55 | 301.52 0.53  |      |      |      |     |     |     |     | 50 | OB+  | 12.93  | 1.53   |
|        |      |      |          |      | 12 38 | 33.7 -61 12 | 43 | 301.53 1.52  |      |      |      |     |     |     |     | 53 | OB-  | 12.15  | 0.79   |
|        |      |      |          |      | 12 38 | 7.6 -62 53  | 28 | 301.55 -0.16 |      |      |      |     |     |     |     | 51 | OB-  | 12.88  | 1.18   |
|        |      |      |          |      | 12 37 | 49.1 -63 35 | 35 | 301.55 -0.87 |      |      |      |     |     | 148 | OB  |    |      |        |        |
| 109937 | 9.6  | B3   | -63 2380 | 10.0 | 12 38 | 8.9 -63 15  | 6  | 301.57 -0.52 | 2724 | OB-  | 9.9  |     |     |     |     |    |      |        |        |
| 109978 | 8.8  | B0   | -61 3327 | 8.8  | 12 38 | 27.4 -62 19 | 27 | 301.57 0.41  | 2726 | OB+c | 9.5  | 706 | OB  |     |     | 49 | OB+  | 13.00  | 1.01   |
|        |      |      |          |      | 12 37 | 56.0 -64 33 | 36 | 301.61 -1.83 |      |      |      |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 39 | 22.9 -61 37 | 23 | 301.64 1.11  | 2728 | OB   | 10.6 |     |     |     |     | 55 | OB-  | 13.72  | 0.68   |
|        |      |      |          |      | 12 38 | 51.5 -63 29 | 42 | 301.67 -0.76 |      |      |      |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 37 | 37.3 -66 45 | 38 | 301.69 -4.03 | 2718 | OB-  | 10.5 | 702 | OB  |     |     |    |      |        |        |
| 109399 | 8.0  | B0   | -72 1275 | 7.8  | 12 34 | 1.4 -72 36  | 22 | 301.71 -9.88 | 2710 | OB   | 8.0  | 700 | OB  |     |     |    |      |        |        |
|        |      |      |          |      | 12 34 | 27.3 -71 47 | 21 | 301.71 -9.06 | IA67 | A1I  | 12.7 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 37 | 27.1 -67 27 | 13 | 301.71 -4.72 | 2716 | OB-h | 10.9 |     |     |     |     |    |      |        |        |
| 109867 | 6.46 | B2   | -66 1856 | 9.6  | 12 37 | 39.9 -67 4  | 58 | 301.71 -4.35 | 2720 | OB+  | 6.3  | 703 | OB+ |     |     |    |      |        |        |
|        |      |      | -66 1861 | 6.7  | 12 39 | 51.4 -62 10 | 15 | 301.72 0.57  |      |      |      |     |     |     |     | 58 | OB+  | 12.45  | 0.57   |
|        |      |      |          |      | 12 39 | 23.2 -63 23 | 49 | 301.72 -0.66 |      |      |      |     |     |     |     | 57 | OB-  | 12.92  | 0.75   |
|        |      |      |          |      | 12 40 | 1.3 -61 36  | 26 | 301.72 1.13  | 2729 | OB   | 11.9 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 38 | 36.1 -65 14 | 14 | 301.72 -2.50 |      |      |      |     |     |     |     | 54 | OB-  | 13.93  | 0.92   |
|        |      |      |          |      | 12 40 | 16.5 -61 10 | 13 | 301.73 1.57  | 2730 | OB   | 11.5 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 40 | 14.4 -61 50 | 40 | 301.75 0.89  |      |      |      |     |     |     |     | 59 | OB   | 12.85  | 0.93   |
|        |      |      |          |      | 12 38 | 57.3 -65 10 | 46 | 301.75 -2.44 |      |      |      |     |     |     |     | 56 | OB-  | 12.18  | 0.77   |
| 110040 | 8.7  | K5   | -61 3330 | 10.3 | 12 39 | 32.8 -61 54 | 47 | 301.79 -1.74 |      |      |      |     |     | 149 | OB  |    |      |        |        |
| 110360 | 9.41 | B0   | -59 4396 | 9.0  | 12 41 | 2.6 -60 32  | 31 | 301.80 2.20  | 2732 | OB   | 9.9  | 708 | OB  |     |     |    |      |        |        |
|        |      |      |          |      | 12 40 | 54.2 -61 13 | 52 | 301.81 1.51  | 2731 | OB-  | 12.2 |     |     |     |     | 60 | OB+  | 12.38  | 1.23   |
|        |      |      |          |      | 12 40 | 54.0 -61 48 | 29 | 301.83 0.93  |      |      |      |     |     |     |     | 62 | OB+  | 13.66  | 0.65   |
|        |      |      |          |      | 12 41 | 3.6 -61 29  | 21 | 301.84 1.25  |      |      |      |     |     |     |     | 66 | OB   | 11.96  | 0.72   |
|        |      |      |          |      | 12 41 | 31.3 -61 0  | 36 | 301.88 1.73  | 2735 | OB   | 12.2 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 36 | 31.9 -71 55 | 25 | 301.88 -9.19 | IA68 | B9II | 11.4 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 39 | 18.2 -67 22 | 53 | 301.88 -4.64 |      |      |      |     |     | 707 | OB  |    |      |        |        |
| 311829 |      | (B0) | -66 1872 | 9.2  | 12 41 | 20.9 -61 29 | 20 | 301.88 1.26  |      |      |      |     |     |     |     |    |      |        |        |
| 311846 |      | (B0) | -61 3349 | 9.9  | 12 41 | 28.6 -61 54 | 37 | 301.90 0.83  | 2734 | OB   | 10.8 |     |     | 150 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 41 | 3.8 -63 1   | 3  | 301.90 -0.27 |      |      |      |     |     |     |     | 61 | OB+  | 11.78  | 1.19   |
| 110373 | 9.0  | B8   | -62 2892 | 9.0  | 12 41 | 12.7 -62 51 | 48 | 301.91 -0.12 | 2733 | OB-  | 9.9  |     |     |     |     |    |      |        |        |
| 110532 | 6.46 | K0   | -58 4454 | 9.8  | 12 42 | 23.1 -58 47 | 37 | 301.91 3.95  | 2744 | OB   | 10.6 |     |     | 154 | OB  |    |      |        |        |
|        |      |      |          |      | 12 41 | 16.7 -63 11 | 27 | 301.92 -0.45 |      |      |      |     |     |     |     | 63 | OB-  | 14.19  | 1.04   |
|        |      |      |          |      | 12 41 | 48.6 -61 32 | 30 | 301.93 1.20  |      |      |      |     |     |     |     | 69 | OB-  | 13.50  | 0.68   |
|        |      |      |          |      | 12 41 | 29.8 -63 0  | 22 | 301.94 -0.26 |      |      |      |     |     |     |     | 65 | OB : | >12.48 | 1.3:   |
|        |      |      |          |      | 12 41 | 38.6 -62 21 | 34 | 301.94 0.39  |      |      |      |     |     |     |     | 67 | OB   | 12.27  | 0.71   |
| 109885 | 9.2  | B5   | -70 1502 | 8.7  | 12 37 | 57.4 -71 30 | 53 | 301.96 -8.77 |      |      |      |     |     | 704 | OB  |    |      |        |        |
| 110498 | 9.5  | B0   | -60 4253 | 9.2  | 12 42 | 4.9 -61 32  | 19 | 301.96 1.20  | 2737 | OB-  | 9.9  | 709 | OB  |     |     |    |      |        |        |
|        |      |      |          |      | 12 41 | 58.6 -61 50 | 44 | 301.96 0.90  | 2736 | OB+1 | 11.2 |     |     | 151 | OB+ |    |      |        |        |
| 110432 | 6.00 | B1p  | -62 2898 | 6.6  | 12 41 | 39.2 -62 56 | 57 | 301.97 -0.20 |      |      |      |     |     |     |     | 70 | OB+  | 10.6:  | 1.9:   |
|        |      |      |          |      | 12 42 | 6.9 -61 50  | 29 | 301.97 0.91  |      |      |      |     |     |     |     | 71 | OB+  | 13.24  | 1.66   |
|        |      |      |          |      | 12 42 | 10.0 -61 26 | 26 | 301.97 1.31  | 2738 | OB   | 11.9 |     |     |     |     | 72 | OB-  | 11.72  | 0.72   |
|        |      |      |          |      | 12 41 | 47.6 -63 0  | 16 | 301.98 -0.26 |      |      |      |     |     |     |     | 68 | OB+  | 11.28  | 1.31   |
|        |      |      |          |      | 12 42 | 20.9 -61 33 | 19 | 301.99 1.19  | 2740 | OB-  | 12.2 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 41 | 17.9 -64 59 | 55 | 301.99 -2.25 |      |      |      |     |     |     |     | 64 | OB-  | 11.80  | 0.68   |
|        |      |      |          |      | 12 42 | 21.9 -61 24 | 30 | 301.99 1.34  | 2741 | OB-  | 11.9 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 42 | 23.8 -61 9  | 9  | 301.99 1.60  | 2742 | OB-  | 10.6 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 42 | 25.9 -61 9  | 19 | 301.99 1.59  | 2743 | OB   | 10.7 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 42 | 14.1 -61 55 | 35 | 301.99 0.82  | 2739 | OB+  | 11.9 |     |     |     |     | 73 | OB   | 12.37  | 1.09   |
|        |      |      |          |      | 12 42 | 22.3 -62 59 | 51 | 302.04 -0.24 |      |      |      |     |     | 152 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 42 | 21.7 -62 59 | 37 | 302.04 -0.25 |      |      |      |     |     |     |     | 74 | OB-: | 12.11  | 0.74   |
|        |      |      |          |      | 12 42 | 49.7 -61 16 | 13 | 302.04 1.48  | 2746 | OB   | 12.2 |     |     |     |     | 75 | OB-: | 11.9:  | 0.9:   |
| 311824 |      | B2   |          |      | 12 42 | 54.3 -61 32 | 23 | 302.06 1.21  | 2747 | OB   | 11.2 |     |     | 155 | OB  |    |      |        |        |
|        |      |      |          |      | 12 42 | 22.3 -62 59 | 51 | 302.05 -0.24 |      |      |      |     |     | 153 | OB+ |    |      |        |        |
|        |      |      |          |      | 12 42 | 39.3 -62 58 | 42 | 302.07 -0.23 | 2745 | WNh  | 12.0 |     |     |     |     |    |      |        |        |
|        |      |      |          |      | 12 42 | 23.4 -63 50 | 59 | 302.07 -1.10 |      |      |      |     |     |     |     | 76 | OB+  | 13.12  | 1.42 → |

TABLE 1 (CONTINUED)

| HD/HDE | m    | ST  | CPD      | m    | 1980.0<br>Alpha Delta | l      | b     | LS   | ST   | m    | KS  | ST  | Ly  | ST  | MO  | ST  | V      | B-V   |
|--------|------|-----|----------|------|-----------------------|--------|-------|------|------|------|-----|-----|-----|-----|-----|-----|--------|-------|
| 110639 | 8.4  | B0  | -60 4259 | 8.6  | 12 42 45.2 -62 58 19  | 302.08 | -0.22 | 2748 | OB   | 9.0  |     |     | 156 | OB  | 78  | OB+ | 12.30  | 1.11  |
|        |      |     | -60 4263 | 10.2 | 12 43 6.3 -61 17 6    | 302.08 | 1.47  |      |      |      |     |     |     |     | 80  | OB  | 12.38  | 0.75  |
|        |      |     |          |      | 12 43 13.0 -61 28 28  | 302.09 | 1.28  |      |      |      |     |     |     |     |     |     |        |       |
| 110785 | 9.5  | B2  | -58 4474 | 9.2  | 12 43 23.1 -61 2 52   | 302.10 | 1.70  | 2750 | OB+h | 11.2 |     |     |     |     | 79  | OB- | 13.56  | 0.86  |
| 110660 | 9.9  | B0  | -57 5684 | 10.0 | 12 42 55.2 -63 18 39  | 302.11 | -0.56 |      |      |      |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 43 59.8 -59 31 37  | 302.14 | 3.23  | 2753 | OB-  | 10.0 |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 43 13.4 -63 56 48  | 302.16 | -1.19 | 2749 | OB-  | 10.4 |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 44 29.8 -57 34 38  | 302.16 | 5.18  | 2755 | OBle | 11.1 |     |     | 158 | OB+ |     |     |        |       |
|        |      |     |          |      | 12 43 48.2 -61 46 56  | 302.17 | 0.97  |      |      |      |     |     |     |     | 82  | OB+ | 13.29  | 1.34  |
|        |      |     |          |      | 12 43 41.7 -62 58 32  | 302.19 | -0.22 |      |      |      |     |     |     |     | 81  | OB+ | 12.00  | 1.38  |
| 110878 | 8.1  | F0  | -57 5690 | 8.0  | 12 40 60.0 -70 55 51  | 302.19 | -8.18 | IA5I | A0II | 12.7 |     |     |     |     |     |     |        |       |
| 110786 | 7.2  | F8  | -61 3356 | 8.6  | 12 44 42.5 -58 23 19  | 302.20 | 4.37  | 2757 | FOII | 8.2  |     |     |     |     |     |     |        |       |
| 311815 |      | B2  | -60 4348 | 10.0 | 12 44 3.0 -62 6 27    | 302.21 | 0.65  | 2752 | FOIa | 8.2  |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 44 10.7 -61 6 16   | 302.21 | 1.65  |      |      |      |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 44 31.6 -61 25 5   | 302.25 | 1.34  |      |      |      |     |     |     |     | 84  | OB- | 12.63  | 0.86  |
| 110863 | 9.16 | B0  | -64 1991 | 10.0 | 12 43 43.6 -64 58 27  | 302.25 | -2.22 | 2751 | OB+  | 11.9 |     |     | 157 | OB+ |     |     |        |       |
|        |      |     | -59 4423 | 8.7  | 12 44 43.1 -60 26 29  | 302.25 | 2.31  | 2756 | OB   | 9.3  | 711 | OB  |     |     |     |     |        |       |
|        |      |     | -60 4282 | 9.5  | 12 44 49.2 -60 26 50  | 302.25 | 2.31  |      |      |      | 712 | OB  |     |     |     |     |        |       |
|        |      |     |          |      | 12 44 17.3 -63 8 31   | 302.26 | -0.39 |      |      |      |     |     |     |     | 83  | OB  | 13.08  | 1.42  |
|        |      |     |          |      | 12 44 35.4 -61 27 11  | 302.26 | 1.30  |      |      |      |     |     |     |     | 86  | OB- | 13.89  | 1.03  |
|        |      |     |          |      | 12 44 54.1 -60 6 43   | 302.27 | 2.64  | 2758 | OB   | 12.2 |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 44 35.6 -62 21 25  | 302.28 | 0.40  |      |      |      |     |     |     |     | 85  | OB  | 13.02  | 0.91  |
|        |      |     |          |      | 12 44 48.6 -61 58 40  | 302.30 | 0.78  |      |      |      |     |     |     |     | 87  | OB- | 12.71  | 0.76  |
|        |      |     | -62 2916 | 9.6  | 12 44 32.9 -63 24 36  | 302.30 | -0.65 | 2754 | OB-  | 11.5 |     |     |     |     |     |     |        |       |
| 110972 | 9.2  | B3  | -58 4494 | 9.0  | 12 45 8.6 -61 00 00   | 302.31 | 1.76  |      |      |      |     |     |     |     | 89  | OB- | 13.04  | 0.5:  |
|        |      |     |          |      | 12 45 24.3 -59 14 28  | 302.31 | 3.52  | 2760 | OB-  | 9.7  |     |     |     |     |     |     |        |       |
|        |      |     | -64 1997 | 8.9  | 12 45 5.4 -61 46 21   | 302.32 | 0.98  |      |      |      | 710 | OB  |     |     | 88  | OB- | 13.21  | 1.14  |
| 110984 | 8.9  | B0  | -60 4285 | 8.8  | 12 44 24.7 -65 30 50  | 302.34 | -2.75 |      |      |      |     |     |     |     |     |     |        |       |
|        |      |     | -60 4284 | 10.2 | 12 45 32.4 -61 24 32  | 302.37 | 1.35  | 2761 | OB   | 11.9 |     |     | 160 | OB+ | 90  | OB- | 11.58  | 0.98  |
|        |      |     | -63 2410 | 10.0 | 12 45 33.6 -61 4 37   | 302.37 | 1.68  | 2762 | OB   | 9.4  | 713 | OB  |     |     |     |     |        |       |
|        |      |     |          |      | 12 45 35.8 -61 5 15   | 302.38 | 1.67  |      |      |      |     |     |     |     |     |     |        |       |
| 111077 | 10.2 | B   | -57 5703 | 9.2  | 12 45 17.4 -63 46 3   | 302.39 | -1.01 | 2759 | OB   | 9.4  |     |     | 159 | OB  | 91  | OB- | 12.93  | 1.10  |
|        |      |     | -59 4446 | 9.2  | 12 45 41.7 -61 33 54  | 302.39 | 1.19  |      |      |      |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 46 17.0 -57 51 47  | 302.40 | 4.90  | 2767 | OBle | 10.4 | 715 | OB+ |     |     |     |     |        |       |
|        |      |     |          |      | 12 45 54.4 -61 49 15  | 302.42 | 0.94  | 2764 | OB+  | 11.9 |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 46 5.7 -60 34 6    | 302.42 | 2.19  | 2765 | OB-  | 11.9 |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 46 8.0 -61 6 58    | 302.44 | 1.64  | 2766 | OB:  | 12.5 |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 46 12.1 -61 5 8    | 302.44 | 1.67  |      |      |      |     |     |     |     | 93  | OB- | 12.90  | 0.67  |
| 111003 | 9.9  | B0  | -64 2003 | 9.2  | 12 46 6.0 -62 17 21   | 302.45 | 0.47  |      |      |      |     |     |     |     | 92  | OB- | 13.41  | 0.97  |
|        |      |     |          |      | 12 45 47.3 -64 55 58  | 302.46 | -2.17 | 2763 | OB-  | 10.6 | 714 | OB  |     |     |     |     |        |       |
|        |      |     |          |      | 12 46 25.8 -61 11 28  | 302.47 | 1.57  |      |      |      |     |     |     |     | 95  | OB- | 12.56  | 1.27  |
|        |      |     |          |      | 12 46 23.6 -61 43 10  | 302.48 | 1.04  |      |      |      |     |     |     |     | 94  | OB- | 13.60  | 1.06  |
|        |      |     | -63 2412 | 9.8  | 12 46 6.6 -64 29 55   | 302.49 | -1.74 |      |      |      |     |     | 161 | OB  |     |     |        |       |
| 111124 | 9.5  | B   | -62 2928 | 9.2  | 12 46 47.3 -60 32 18  | 302.51 | 2.22  |      |      |      |     |     |     |     | 98  | OB- | 11.46  | 0.31  |
| 111193 | 8.2  | B0  | -59 4460 | 8.1  | 12 46 38.3 -62 53 12  | 302.52 | -0.13 | 2768 | OB+h | 10.4 | 716 | OB  |     |     | 96  | OB+ | 12.01  | 1.26  |
|        |      |     |          |      | 12 46 31.5 -63 41 44  | 302.52 | -0.94 |      |      |      |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 46 59.1 -60 6 2    | 302.53 | 2.66  | 2769 | OB   | 8.5  | 718 | OB  |     |     |     |     |        |       |
|        |      |     |          |      | 12 46 46.5 -62 58 38  | 302.54 | -0.22 |      |      |      |     |     |     |     | 97  | OB+ | 14.18  | -0.01 |
|        |      |     |          |      | 12 47 11.9 -61 49 45  | 302.57 | 0.93  |      |      |      |     |     |     |     | 100 | OB- | 13.26  | 1.11  |
| 311973 |      | B   | -63 2414 | 9.4  | 12 46 48.7 -64 16 49  | 302.57 | -1.51 |      |      |      | 717 | OB  |     |     |     |     |        |       |
|        |      |     |          |      | 12 47 15.1 -61 8 27   | 302.57 | 1.62  | 2771 | OB+h |      |     |     | 162 | OB+ | 102 | OB- | 13.62  | 0.61  |
|        |      |     | -62 2933 | 9.9  | 12 47 13.8 -60 58 17  | 302.57 | 1.79  |      |      |      |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 47 6.7 -63 22 54   | 302.58 | -0.62 | 2770 | OB-  | 11.4 |     |     |     |     | 103 | OB  | 12.02  | 0.82  |
|        |      |     |          |      | 12 47 15.8 -62 51 30  | 302.59 | -0.10 |      |      |      |     |     |     |     | 99  | OB- | 13.14  | 0.68  |
|        |      |     |          |      | 12 47 11.3 -62 54 56  | 302.59 | -0.15 |      |      |      |     |     |     |     |     |     |        |       |
|        |      |     | -59 4468 | 9.5  | 12 47 31.3 -59 48 3   | 302.59 | 2.96  | 2772 | OB   | 10.7 | 719 | OB  |     |     |     |     |        |       |
|        |      |     |          |      | 12 47 15.3 -63 36 56  | 302.60 | -0.85 |      |      |      |     |     |     |     | 101 | OB- | 13.3:  | 1.1:  |
|        |      |     |          |      | 12 47 30.5 -62 51 32  | 302.62 | -0.10 |      |      |      |     |     |     |     | 104 | OB: | 13.41  | 0.85  |
|        |      |     |          |      | 12 47 38.2 -62 16 16  | 302.63 | 0.49  |      |      |      |     |     |     |     | 106 | OB- | 13.36  | 1.20  |
|        |      |     |          |      | 12 46 53.1 -63 46 49  | 302.64 | -1.03 |      |      |      |     |     | 163 | OB+ | 105 | OB  | 11.58  | 0.91  |
|        |      |     |          |      | 12 47 50.4 -61 32 30  | 302.65 | 1.22  |      |      |      |     |     |     |     | 108 | OB- | 13.64  | 0.92  |
| 311899 |      | B5  | -59 4474 | 8.6  | 12 48 0.1 -60 2 11    | 302.66 | 2.73  |      |      |      |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 47 49.8 -63 41 32  | 302.67 | -0.93 |      |      |      |     |     |     |     | 107 | OB- | >13.67 | <0.8: |
|        |      |     |          |      | 12 47 50.9 -62 41 49  | 302.71 | 0.06  |      |      |      |     |     |     |     | 109 | OB- | 11.48  | 0.67  |
| 111377 | 9.0  | B8  | -60 4309 | 9.0  | 12 48 25.9 -60 51 21  | 302.71 | 1.91  | 2775 | OB-  | 9.4  | 721 | OB  |     |     |     |     |        |       |
|        |      |     | -57 5729 | 9.7  | 12 48 33.5 -58 28 51  | 302.71 | 4.28  | 2777 | OB   | 12.8 |     |     |     |     |     |     |        |       |
| 111343 | 9.6  | A2  | -63 2418 | 9.2  | 12 48 13.3 -64 5 38   | 302.72 | -1.33 | 2774 | A2II | 10.1 |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 48 35.6 -61 14 29  | 302.73 | 1.52  | 2776 | OB   | 12.2 |     |     |     |     | 110 | OB- | 12.16  | 0.99  |
|        |      |     |          |      | 12 48 44.6 -64 16 15  | 302.77 | -1.51 |      |      |      |     |     |     |     | 111 | OB- | 12.79  | 0.93  |
|        |      |     |          |      | 12 48 56.3 -62 42 49  | 302.78 | 0.05  |      |      |      |     |     |     |     | 112 | OB- | 13.34  | 0.58  |
| 111290 | 7.7  | B2  | -71 1389 | 7.7  | 12 48 11.2 -71 37 21  | 302.78 | -8.86 | 2773 | OB   | 8.1  | 720 | OB  |     |     |     |     |        |       |
| 111463 | 5.96 | A2  | -59 4483 | 7.5  | 12 49 0.2 -60 17 29   | 302.78 | 2.47  | 2779 | A5II | 7.2  |     |     |     |     |     |     |        |       |
|        |      |     | -62 2940 | 10.2 | 12 48 56.7 -62 38 15  | 302.79 | 0.13  | 2778 | OB+  | 10.9 |     |     | 165 | OB+ |     |     |        |       |
|        |      |     |          |      | 12 49 6.9 -63 54 40   | 302.81 | -1.15 |      |      |      |     |     |     |     | 113 | OB  | 13.49  | 1.25  |
| 311999 |      | B   | -60 4312 | 10.2 | 12 49 10.4 -61 28 34  | 302.81 | 1.29  | 2780 | OB   | 11.2 |     |     | 166 | OB  |     |     |        |       |
| 111505 | 9.20 | B5  | -59 4485 | 8.6  | 12 49 16.0 -60 33 15  | 302.81 | 2.21  | 2781 | OB-  | 8.7  |     |     |     |     |     |     |        |       |
| 312021 |      | B   | -61 3378 | 10.2 | 12 49 20.7 -62 1 5    | 302.83 | 0.74  | 2782 | OB+I | 10.8 |     |     | 167 | OB+ |     |     |        |       |
|        |      |     | -63 2426 | 9.5  | 12 49 30.1 -64 16 15  | 302.86 | -1.51 | 2783 | OB   | 11.1 |     |     | 168 | OB  |     |     |        |       |
| 111578 | 9.1  | B3  | -59 4488 | 8.6  | 12 49 44.6 -60 20 18  | 302.87 | 2.42  | 2785 | OB-  | 9.2  |     |     |     |     |     |     |        |       |
| 111579 | 8.9  | B2  | -60 4320 | 8.8  | 12 49 51.2 -61 8 4    | 302.89 | 1.63  | 2786 | OB   | 8.7  | 723 | OB  |     |     |     |     |        |       |
|        |      |     |          |      | 12 49 57.4 -61 59 10  | 302.90 | 0.78  |      |      |      |     |     |     |     | 114 | OB- | 12.34  | 0.78  |
| 111558 | 7.2  | B0  | -68 1777 | 7.2  | 12 49 54.9 -69 32 12  | 302.91 | -6.77 | 2784 | OB   | 7.5  | 722 | OB  |     |     |     |     |        |       |
| 111613 | 5.94 | A2p | -59 4494 | 6.9  | 12 50 5.9 -60 13 14   | 302.91 | 2.54  | 2788 | A5I  | 6.7  |     |     |     |     |     |     |        |       |
|        |      |     |          |      | 12 50 8.7 -62 17 53   | 302.92 | 0.46  |      |      |      |     |     |     |     | 115 | OB- | 13.99  | 0.87  |
|        |      |     | -63 2431 | 10.0 | 12 50 9.7 -63 58 10   | 302.93 | -1.21 | 2787 | OB   | 10.9 |     |     | 169 | OB  |     |     |        | →     |

TABLE 1 (CONTINUED)

| HD/HDE                     | m                | ST                               | CPD               | m          | 1980.0    |        | l     | b    | LS   | ST   | m   | KS  | ST  | Ly  | ST  | MO     | ST    | V     | B-V  |
|----------------------------|------------------|----------------------------------|-------------------|------------|-----------|--------|-------|------|------|------|-----|-----|-----|-----|-----|--------|-------|-------|------|
|                            |                  |                                  |                   |            | Alpha     | Delta  |       |      |      |      |     |     |     |     |     |        |       |       |      |
| 312051<br>312052           | B                | -63 2432                         | 10.0              | 12 50 29.2 | -61 52 21 | 302.96 | 0.89  |      |      |      |     |     |     |     |     | 117    | OB-   | 12.56 | 0.84 |
|                            |                  |                                  |                   | 12 50 27.3 | -64 12 52 | 302.96 | -1.45 | 2789 | OB-  | 12.4 |     |     |     |     |     | 116    | OB-   | 11.96 | 0.65 |
|                            |                  |                                  |                   | 12 50 33.8 | -63 53 59 | 302.97 | -1.14 | 2790 | OB   | 11.4 |     |     | 170 | OB+ |     |        |       |       |      |
|                            |                  |                                  |                   | 12 50 42.3 | -63 15 15 | 302.99 | -0.49 |      |      |      |     |     |     |     | 119 | OB-    | 13.47 | 0.73  |      |
|                            |                  |                                  |                   | 12 50 41.1 | -62 10 55 | 302.99 | 0.58  |      |      |      |     |     |     |     | 118 | OB+    | 12.39 | 1.16  |      |
| 312001                     | B5               | -60 4331                         | 10.2              | 12 50 49.8 | -63 5 47  | 303.01 | -0.34 |      |      |      |     |     |     | 171 | OB  |        |       |       |      |
|                            |                  |                                  |                   | 12 50 49.6 | -63 9 8   | 303.01 | -0.39 |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 50 54.7 | -61 50 6  | 303.01 | 0.93  |      |      |      |     |     |     |     | 120 | BI     | 13.11 | 1.19  |      |
|                            |                  |                                  |                   | 12 50 54.1 | -61 27 7  | 303.02 | 1.31  |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 51 3.9  | -61 44 48 | 303.03 | 1.02  | 2791 | OB   | 12.5 |     |     |     |     | 121 | OB     | 12.38 | 1.22  |      |
| 312076<br>312075           | B0               | -64 2049                         | 9.3               | 12 51 31.9 | -64 44 38 | 303.03 | 1.02  | 2792 | OB:  | 12.5 |     |     |     |     |     | 122    | OB    | 11.81 | 0.74 |
|                            |                  |                                  |                   | 12 51 13.9 | -62 35 41 | 303.05 | 0.17  |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 51 25.5 | -61 8 23  | 303.08 | 1.62  | 2793 | OB-  | 10.4 | 724 | OB  |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 51 26.6 | -60 13 47 | 303.08 | 2.53  | 2794 | OBh  | 11.2 |     | 172 | OB  |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 51 27.0 | -60 9 6   | 303.09 | 2.61  |      |      |      |     |     |     |     |     |        |       |       |      |
| 312002                     | B                | -60 4336                         | 10.2              | 12 51 42.7 | -64 4 7   | 303.10 | -1.31 |      |      |      |     |     |     |     |     | 124    | OB-   | 12.76 | 1.02 |
|                            |                  |                                  |                   | 12 51 37.5 | -61 24 26 | 303.10 | 1.36  | 2795 | OB   | 11.5 |     | 173 | OB+ | 123 | OB  | 11.37  | 1.03  |       |      |
|                            |                  |                                  |                   | 12 51 40.0 | -60 37 6  | 303.12 | 2.14  |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 51 45.5 | -60 10 50 | 303.12 | 2.58  | 2796 | OB-  | 10.6 |     | 174 | OB  |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 51 57.1 | -63 32 17 | 303.13 | -0.78 |      |      |      |     |     |     | 125 | OB  | >11.88 | <0.98 |       |      |
| 111886                     | 8.6              | B3                               | 9.4               | 12 52 4.8  | -63 54 51 | 303.14 | -1.15 | 2798 | OB+  | 12.4 |     |     |     |     |     | 126    | OB-   | 11.47 | 1.07 |
|                            |                  |                                  |                   | 12 51 58.0 | -60 19 26 | 303.15 | 2.44  | 2797 | OB-  | 9.7  |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 51 59.9 | -60 37 46 | 303.15 | 2.14  |      |      |      |     | 725 | OB  |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 2.0  | -60 21 5  | 303.15 | 2.41  | 2799 | OB-  | 9.7  |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 9.0  | -61 14 29 | 303.16 | 1.52  |      |      |      |     |     |     | 127 | OB- | 13.46  | 1.32  |       |      |
| 111904                     | 5.84             | B9p                              | 8.8               | 12 52 6.9  | -60 17 54 | 303.16 | 2.46  | 2800 | OB+  | 10.2 |     |     |     |     |     | 130    | OB    | 13.69 | 0.85 |
|                            |                  |                                  |                   | 12 52 23.4 | -65 14 20 | 303.16 | -2.48 |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 29.8 | -66 42 41 | 303.16 | -3.95 | 2805 | B7Ia | 11.9 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 16.4 | -62 0 59  | 303.17 | 0.75  |      |      |      |     |     |     | 128 | OB- | 12.90  | 0.99  |       |      |
|                            |                  |                                  |                   | 12 52 8.7  | -60 16 48 | 303.17 | 2.48  | 2802 | OB-  | 10.9 |     |     |     |     |     |        |       |       |      |
| 111885<br>111916           | 9.0<br>8.9       | A2<br>B3                         | 8.6<br>8.8        | 12 52 9.6  | -60 13 7  | 303.17 | 2.54  | 2803 | B7II | 6.7  |     |     |     |     |     | 133    | OB+   | 13.25 | 1.4: |
|                            |                  |                                  |                   | 12 52 24.6 | -62 54 26 | 303.18 | -0.14 |      |      |      |     |     |     | 132 | OB- | 11.62  | 0.89  |       |      |
|                            |                  |                                  |                   | 12 52 23.3 | -62 30 5  | 303.18 | 0.26  |      |      |      |     |     |     | 129 | OB+ | 11.02  | 1.35  |       |      |
|                            |                  |                                  |                   | 12 52 18.2 | -61 45 2  | 303.18 | 1.01  | 2804 | OB+h | 11.2 |     | 175 | OB+ |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 0.1  | -55 12 53 | 303.18 | 7.55  | 2801 | A5II | 9.6  |     |     |     |     |     |        |       |       |      |
| 111934                     | 6.86             | B2                               | 9.2               | 12 52 11.6 | -60 5 46  | 303.18 | 2.67  |      |      |      |     |     |     |     |     | 131    | OB-   | 13.35 | 1.20 |
|                            |                  |                                  |                   | 12 52 22.0 | -61 23 23 | 303.19 | 1.37  |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 21.0 | -60 18 3  | 303.19 | 2.46  | 2806 | OBh  | 10.2 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 28.5 | -61 48 15 | 303.20 | 0.96  |      |      |      |     |     |     | 134 | OB- | 13.76  | 1.22  |       |      |
|                            |                  |                                  |                   | 12 52 25.6 | -60 14 52 | 303.20 | 2.51  | 2807 | OB   | 7.9  |     |     |     |     |     |        |       |       |      |
| 111952<br>111973           | 9.42<br>6.11     | B0<br>B3                         | 8.6<br>8.7        | 12 52 28.9 | -61 6 24  | 303.20 | 1.66  | 2809 | OB   | 10.3 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 27.1 | -60 14 30 | 303.21 | 2.52  | 2808 | OB   | 10.6 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 44.0 | -63 17 46 | 303.22 | -0.53 |      |      |      |     |     |     | 176 | OB+ | 135    | OB    | 10.82 | 1.30 |
|                            |                  |                                  |                   | 12 52 31.7 | -60 16 1  | 303.22 | 2.50  | 2810 | OB-  | 11.2 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 34.0 | -60 17 40 | 303.22 | 2.47  | 2811 | OB   | 8.7  |     |     |     |     |     |        |       |       |      |
| 111990                     | 7.9              | B3                               | 7.5               | 12 52 35.9 | -60 37 46 | 303.22 | 2.13  | 2812 | OB-  | 9.7  |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 36.8 | -60 16 1  | 303.23 | 2.50  | 2813 | OB   | 6.7  |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 40.1 | -60 16 9  | 303.23 | 2.49  | 2814 | OB+  | 9.2  |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 40.8 | -60 15 2  | 303.23 | 2.51  | 2815 | OB   | 10.9 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 55.5 | -62 39 48 | 303.24 | 0.10  |      |      |      |     |     |     | 137 | OB- | 12.82  | 0.60  |       |      |
| 112027<br>112026           | 8.4<br>8.4       | B2<br>B5                         | 10.1              | 12 53 1.1  | -64 8 31  | 303.24 | -1.38 |      |      |      |     |     |     |     |     | 138    | OB-   | 13.11 | 1.36 |
|                            |                  |                                  |                   | 12 52 45.2 | -60 18 28 | 303.24 | 2.45  | 2816 | OB-  | 9.8  |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 53.3 | -61 6 48  | 303.25 | 1.65  |      |      |      |     |     |     | 136 | OB- | 13.75  | 0.94  |       |      |
|                            |                  |                                  |                   | 12 52 47.7 | -60 13 32 | 303.25 | 2.54  | 2817 | OB-  | 7.4  |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 53 6.7  | -62 41 53 | 303.26 | 0.06  |      |      |      |     |     |     | 139 | OB+ | 12.82  | 1.98  |       |      |
| 312037                     | B5               | -60 4352                         | 10.0              | 12 53 11.7 | -63 44 24 | 303.26 | -0.98 |      |      |      |     |     |     |     |     | 141    | OB-   | 12.89 | 0.76 |
|                            |                  |                                  |                   | 12 52 56.2 | -60 15 10 | 303.27 | 2.51  | 2818 | OB-  | 11.2 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 53 5.2  | -60 58 6  | 303.27 | 1.79  | 2819 | OB   | 9.3  | 728 | OB  |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 53 5.8  | -60 47 8  | 303.27 | 1.97  |      |      |      | 729 | OB  |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 52 53.2 | -63 28 46 | 303.28 | -0.72 |      |      |      |     |     |     | 177 | OB  |        |       |       |      |
| 312139                     | B                | -60 4355                         | 9.6               | 12 53 7.3  | -61 23 11 | 303.28 | 1.37  |      |      |      |     |     |     |     |     | 140    | OB    | 13.36 | 1.23 |
|                            |                  |                                  |                   | 12 53 13.7 | -61 18 46 | 303.29 | 1.45  | 2820 | OBh  | 11.9 |     |     |     | 142 | OB+ | 12.25  | 1.15  |       |      |
|                            |                  |                                  |                   | 12 53 32.6 | -62 41 32 | 303.31 | 0.07  | 2822 | OB   | 11.5 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 53 38.1 | -62 9 35  | 303.33 | 0.60  |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 54 6.0  | -66 16 29 | 303.33 | -3.51 | 2824 | OB+  | 11.4 |     |     |     | 143 | OB  | 12.85  | 1.07  |       |      |
| 112147<br>112168<br>312143 | 8.6<br>8.8<br>B5 | -58 4589<br>-59 4579<br>-61 3393 | 8.7<br>8.7<br>9.5 | 12 53 38.9 | -61 18 12 | 303.34 | 1.46  |      |      |      |     |     |     |     |     | 144    | OB-   | 13.69 | 1.05 |
|                            |                  |                                  |                   | 12 53 43.4 | -62 6 43  | 303.34 | 0.65  | 2823 | OB+r | 11.9 |     |     |     | 145 | OB+ | >11.55 | 1.5:  |       |      |
|                            |                  |                                  |                   | 12 53 10.4 | -55 56 30 | 303.34 | 6.82  | 2821 | OB   | 11.2 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 53 59.8 | -61 44 53 | 303.38 | 1.01  |      |      |      |     |     |     | 146 | OB  | 12.67  | 1.19  |       |      |
|                            |                  |                                  |                   | 12 54 18.5 | -63 34 21 | 303.39 | -0.81 |      |      |      |     |     |     | 149 | OB- | 13.53  | 0.87  |       |      |
| 112181                     | 9.02             | B3                               | 8.4               | 12 54 1.8  | -61 27 53 | 303.39 | 1.30  | 2826 | OB+r | 11.2 |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 54 1.2  | -61 25 3  | 303.40 | 1.34  |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 54 7.0  | -61 16 14 | 303.40 | 1.49  |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 54 17.2 | -61 44 43 | 303.41 | 1.01  | 2827 | OB   | 12.2 |     |     |     | 147 | OB  | 12.68  | 1.14  |       |      |
|                            |                  |                                  |                   | 12 54 32.3 | -63 38 3  | 303.41 | -0.87 |      |      |      |     |     |     | 148 | OB- | 11.46  | 1.09  |       |      |
| 112147<br>112168<br>312143 | 8.6<br>8.8<br>B5 | -58 4589<br>-59 4579<br>-61 3393 | 8.7<br>8.7<br>9.5 | 12 54 34.2 | -64 3 17  | 303.41 | -1.30 |      |      |      |     |     |     |     |     | 151    | OB    | 13.51 | 0.95 |
|                            |                  |                                  |                   | 12 53 56.3 | -58 54 34 | 303.41 | 3.85  | 2825 | OB+c | 9.1  |     |     |     | 152 | OB- | 13.01  | 0.97  |       |      |
|                            |                  |                                  |                   | 12 54 6.2  | -60 11 45 | 303.42 | 2.57  |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 54 19.5 | -61 44 35 | 303.42 | 1.02  | 2828 | OB   | 10.2 |     |     |     | 182 | OB  |        |       |       |      |
|                            |                  |                                  |                   | 12 54 19.3 | -61 30 43 | 303.42 | 1.25  |      |      |      |     |     |     |     |     |        |       |       |      |
| 112181                     | 9.02             | B3                               | 8.4               | 12 54 34.9 | -62 42 3  | 303.43 | 0.06  |      |      |      |     |     |     |     |     | 150    | OB-   | 13.12 | 1.30 |
|                            |                  |                                  |                   | 12 54 19.0 | -60 32 29 | 303.43 | 2.22  | 2829 | OB   | 8.8  | 731 | OB  |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 54 58.1 | -64 50 39 | 303.44 | -2.09 |      |      |      |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 54 27.2 | -60 22 00 | 303.45 | 2.39  | 2830 | OB-  | 9.7  |     |     |     |     |     |        |       |       |      |
|                            |                  |                                  |                   | 12 54 42.4 | -61 57 52 | 303.46 | 0.79  | 2832 | OB+  | 12.5 |     |     |     |     |     |        |       |       |      |

TABLE 1 (CONTINUED)

| HD/HDE | m    | ST       | CPD      | m      | 1980.0     |           | l          | b         | LS     | ST   | m    | KS  | ST  | Ly  | ST    | MO   | ST    | V      | B-V   |  |
|--------|------|----------|----------|--------|------------|-----------|------------|-----------|--------|------|------|-----|-----|-----|-------|------|-------|--------|-------|--|
|        |      |          |          |        | Alpha      | Delta     |            |           |        |      |      |     |     |     |       |      |       |        |       |  |
| 112202 | 8.9  | B9       | -60 4356 | 10.2   | 12 54 40.2 | -61 9 4   | 303.47     | 1.61      | 2831   | OB   | 10.9 |     |     | 183 | OB+   | 154  | OB    | 10.7:  | >1.2  |  |
|        |      |          | -58 4593 | 9.0    | 12 54 23.5 | -58 54 45 | 303.47     | 3.85      |        |      |      | 732 | OB+ |     |       |      |       |        |       |  |
|        |      |          | -59 4584 | 9.6    | 12 54 32.4 | -60 15 51 | 303.47     | 2.49      |        |      |      |     |     | 181 | OB    |      |       |        |       |  |
| 112272 | 8.1  | B0       |          |        | 12 55 2.1  | -62 57 24 | 303.48     | -0.20     |        |      |      |     |     |     |       | 156  | OB-   | 13.31  | 1.36  |  |
|        |      |          | -63 2454 | 8.0    | 12 55 18.8 | -64 15 8  | 303.49     | -1.49     | 2834   | OB+  | 8.4  | 733 | OB  |     |       |      |       |        |       |  |
|        |      |          | -60 4360 | 10.2   | 12 54 54.0 | -61 6 50  | 303.50     | 1.64      | 2833   | OB   | 11.9 |     |     |     |       |      |       |        |       |  |
|        |      |          |          |        | 12 55 16.2 | -62 56 21 | 303.51     | -0.18     |        |      |      |     |     |     |       | 157  | OB-   | 13.26  | 0.81  |  |
|        |      |          | -60 4362 | 10.2   | 12 55 16.7 | -61 8 39  | 303.54     | 1.61      | 2835   | OB   | 11.9 |     |     |     |       |      |       |        |       |  |
|        |      |          |          |        | 12 55 36.3 | -62 39 19 | 303.55     | 0.10      |        |      |      |     |     |     |       | 159  | OB-   | 11.75  | 0.86  |  |
| 112366 | 8.4  | B2p      |          |        | 12 55 31.9 | -61 46 36 | 303.56     | 0.98      |        |      |      |     |     |     |       | 158  | OB    | 12.91  | 1.53  |  |
|        |      |          |          |        | 12 55 47.2 | -62 37 36 | 303.57     | 0.13      |        |      |      |     |     |     |       | 160  | OB-   | 12.22  | 0.93  |  |
|        |      |          | -62 2965 | 8.2    | 12 55 56.5 | -63 21 23 | 303.57     | -0.60     | 2837   | B7I  | 9.2  |     |     |     |       | 161  | OB    | 12.71  | 1.14  |  |
|        |      |          |          |        | 12 55 52.7 | -62 12 56 | 303.59     | 0.54      |        |      |      |     |     |     |       |      |       |        |       |  |
|        |      |          | -60 4365 | 9.4    | 12 55 43.1 | -60 44 21 | 303.60     | 2.02      | 2836   | OB-  | 10.2 |     |     | 184 | OB    |      |       |        |       |  |
|        |      |          |          | 9.4    | 12 56 2.8  | -62 54 44 | 303.60     | -0.16     |        |      |      |     |     | 185 | OB+   |      |       |        |       |  |
| 312170 |      | (B)      |          |        | 12 56 17.6 | -62 37 48 | 303.63     | 0.13      |        |      |      |     |     |     | 164   | OB+  | 13.57 | 1.77   |       |  |
| 112364 | 7.2  | B1       | -59 4600 | 7.8    | 12 55 42.3 | -59 37 44 | 303.63     | 3.12      |        |      |      | 734 | OB  |     |       |      |       |        |       |  |
| 312174 |      | B2       |          |        | 12 56 6.8  | -61 17 2  | 303.64     | 1.47      | 2838   | OB:  | 12.2 |     |     |     |       | 162  | OB:   | >11.08 | 1.2:  |  |
|        |      |          |          |        | 12 56 7.2  | -61 17 8  | 303.64     | 1.47      | 2839   | OB   | 11.9 |     |     |     |       | 163  | OB:   | >11.20 | 1.3:  |  |
|        |      |          | -62 2971 |        | 12 56 41.1 | -63 12 21 | 303.66     | -0.45     | 2842   | OB   | 10.8 | 736 | OB  |     |       |      |       |        |       |  |
| 112843 | 9.8  | B0       | -71 1416 | 9.0    | 12 59 49.9 | -72 31 21 | 303.67     | -9.77     | 2865   | OB   | 9.9  | 747 | OB  |     |       |      |       |        |       |  |
| 112471 | 8.9  | B3       |          |        | 12 56 51.4 | -62 42 27 | 303.69     | 0.05      |        |      |      |     |     |     |       | 166  | OB-   | 13.0:  | >0.7: |  |
|        |      |          |          |        | 12 57 3.7  | -63 54 0  | 303.69     | -1.15     |        |      |      |     |     |     |       | 167  | OB-   | 14.25  | 0.93  |  |
|        |      |          |          |        | 12 56 49.4 | -62 13 27 | 303.70     | 0.53      |        |      |      |     |     |     |       | 165  | OB-   | 11.77  | 0.94  |  |
|        |      |          | -60 4369 | 8.5    | 12 56 31.8 | -60 46 43 | 303.70     | 1.98      | 2840   | OB-  | 8.7  |     |     |     |       |      |       |        |       |  |
|        |      |          |          |        | 12 57 3.5  | -63 4 25  | 303.71     | -0.32     |        |      |      |     |     |     |       | 168  | OB-   | 12.30  | 1.20  |  |
|        |      |          | -69 1743 | 8.3    | 12 59 13.6 | -70 6 12  | 303.71     | -7.35     | 2859   | OB   | 9.2  | 745 | OB  |     |       |      |       |        |       |  |
| 112497 | 8.5  | B3       |          |        | -57 5809   | 9.2       | 12 56 17.8 | -58 27 44 | 303.73 | 4.28 |      | 735 | OB  |     |       |      |       |        |       |  |
|        |      |          |          |        | 12 57 28.5 | -64 9 3   | 303.72     | -1.40     |        |      |      |     |     |     |       | 169  | OB-   | 12.60  | 0.64  |  |
|        |      |          | -60 4372 | 8.3    | 12 56 47.5 | -60 56 50 | 303.73     | 1.81      | 2843   | OB   | 8.4  | 738 | OB  |     |       |      |       |        |       |  |
|        |      |          |          |        | 12 57 38.2 | -64 43 21 | 303.73     | -1.97     |        |      |      |     |     |     |       | 170  | OB-   | 13.01  | 0.64  |  |
|        |      |          | -60 4371 | 8.6    | 12 56 44.5 | -60 50 58 | 303.74     | 1.90      |        |      |      |     |     |     |       |      |       |        |       |  |
|        |      |          | -61 3403 | 9.8    | 12 57 12.9 | -62 22 18 | 303.74     | 0.38      | 2845   | OB   | 10.9 |     |     | 186 | OB    |      |       |        |       |  |
| 312157 |      | B8       |          |        | 12 56 30.9 | -58 16 44 | 303.76     | 4.47      | 2841   | OB-  | 8.9  | 737 | OB  |     |       |      |       |        |       |  |
| 112484 | 8.9  | B3       | -57 5810 | 8.5    | 12 56 50.7 | -59 47 24 | 303.76     | 2.96      | 2844   | OB   | 9.7  |     |     |     |       |      |       |        |       |  |
| 312243 |      | B2       | -59 4611 | 9.2    | 12 57 39.9 | -63 23 58 | 303.77     | -0.65     | 2848   | OB   | 11.1 |     |     | 188 | OB    |      |       |        |       |  |
|        |      |          | -62 2975 | 9.6    | 12 57 47.1 | -62 31 40 | 303.80     | 0.22      |        |      |      |     |     |     |       | 171  | OB-   | 12.12  | 0.80  |  |
|        |      |          |          |        | 12 57 23.7 | -60 53 7  | 303.80     | 1.87      |        |      |      |     |     | 187 | OB    |      |       |        |       |  |
|        |      |          | -60 4377 | 9.6    | 12 57 33.7 | -60 58 44 | 303.82     | 1.77      | 2847   | OB-  | 11.9 |     |     |     |       |      |       |        |       |  |
|        |      |          |          |        | 12 57 12.7 | -59 8 35  | 303.83     | 3.61      | 2846   | OB-  | 9.2  |     |     |     |       | 173  | OB-   | 13.50  | 0.84  |  |
|        |      |          | -58 4617 | 8.8    | 12 58 20.2 | -63 26 18 | 303.84     | -0.69     |        |      |      |     |     |     |       |      |       |        |       |  |
| 112661 | 8.7  | B8       | -61 3401 | 9.1    | 12 58 6.6  | -61 10 51 | 303.85     | 0.57      | 2849   | OB   | 10.4 | 739 | OB  |     |       |      |       |        |       |  |
| 312155 |      | B0       |          |        | -61 3402   | 10.2      | 12 58 13.6 | -62 15 42 | 303.86 | 0.00 | 2850 |     |     |     |       |      |       |        |       |  |
|        |      |          | -61 3403 | 9.4    | 12 58 18.8 | -62 31 24 | 303.86     | 0.23      | 2852   | OB   | 10.7 |     |     | 189 | OB    |      |       |        |       |  |
|        |      |          | -63 2473 | 9.6    | 12 58 39.3 | -63 55 1  | 303.86     | -1.17     | 2857   | OB-  | 11.2 |     |     |     |       |      |       |        |       |  |
|        |      |          | -63 2473 | 9.6    | 12 58 40.5 | -63 54 42 | 303.86     | -1.17     |        |      |      | 741 | OB  |     |       |      |       |        |       |  |
|        |      |          |          |        | 12 58 14.0 | -62 13 10 | 303.87     | 0.53      |        |      |      |     |     |     |       | 172  | OB-   | 12.48  | 0.82  |  |
|        |      |          |          |        | 12 58 50.4 | -64 11 22 | 303.87     | -1.44     | 2858   | OB   | 10.2 | 742 | OB  |     |       |      |       |        |       |  |
| 113120 | 5.96 | B3p      | -70 1553 | 6.1    | 13 1 42.4  | -71 22 7  | 303.87     | -8.63     | 2879   | OBh  | 5.8  | 756 | OB+ |     |       |      |       |        |       |  |
| 312259 |      | B        |          |        | 12 58 30.4 | -62 18 49 | 303.89     | 0.43      | 2855   | OB-  | 11.8 |     |     |     |       | 175  | OB-   | 11.74  | 0.63  |  |
|        |      |          |          |        | 12 58 29.4 | -62 10 45 | 303.89     | 0.57      | 2853   | OB:  | 13.5 |     |     |     |       |      |       |        |       |  |
|        |      |          | -61 3405 | 10.2   | 12 58 35.9 | -62 34 35 | 303.90     | 0.17      |        |      |      |     |     |     |       | 177  | OB-   | 13.62  | 0.91  |  |
|        |      |          |          |        | 12 58 19.7 | -61 31 47 | 303.90     | 1.22      |        |      |      |     |     |     |       | 174  | OB-   | 13.30  | 1.33  |  |
|        |      |          |          |        | 12 58 28.1 | -61 31 37 | 303.91     | 1.22      | 2854   | OB+r | 11.5 |     |     | 190 | OB    |      |       |        |       |  |
|        |      |          |          |        | 12 58 29.7 | -61 0 32  | 303.93     | 1.74      | 2856   | OB   | 11.9 |     |     |     |       | 176  | OB-   | 11.85  | 1.26  |  |
| 112690 | 8.7  | B5       | -59 4629 | 8.8    | 12 58 52.8 | -62 18 34 | 303.94     | 0.44      |        |      |      |     |     |     | 178   | OB   | 12.38 | 0.60   |       |  |
| 112785 | 9.1  | B8       | -61 3406 | 9.2    | 12 58 12.6 | -59 45 23 | 303.94     | 2.99      | 2851   | OB   | 9.4  | 740 | OB  |     |       |      |       |        |       |  |
| 312228 |      | B5       |          |        | 12 58 55.3 | -62 18 35 | 303.94     | 0.44      | 2860   | OB-  | 10.3 | 743 | OB  |     |       |      |       |        |       |  |
|        |      |          |          |        | 12 59 15.3 | -63 18 51 | 303.95     | -0.57     |        |      |      |     |     |     |       | 179  | OB-   | 14.04  | 1.07  |  |
|        |      |          |          |        | 12 59 17.7 | -63 29 3  | 303.95     | -0.74     |        |      |      |     |     |     |       | 180  | OB-   | 12.78  | 0.44  |  |
|        |      |          | -60 4379 | 10.2   | 12 58 54.8 | -60 41 23 | 303.99     | 2.06      | 2862   | OBh  | 11.4 |     |     | 191 | OB+   |      |       |        |       |  |
|        |      |          | -60 4380 | 9.9    | 12 59 7.2  | -61 33 9  | 303.99     | 1.19      | 2863   | OB+r | 11.3 |     |     |     |       |      |       |        |       |  |
|        |      |          | -59 4634 | 8.2    | 12 58 52.3 | -60 29 5  | 304.00     | 2.26      | 2861   | OB-  | 8.3  | 744 | OB  |     |       |      |       |        |       |  |
| 112784 | 8.33 | B0       | -61 3409 | 9.8    | 12 59 19.2 | -61 34 5  | 304.01     | 1.18      | 2866   | OB+  | 11.9 |     |     |     |       |      |       |        |       |  |
| 112842 | 7.13 | B5       |          |        | 12 59 44.3 | -62 28 51 | 304.03     | 0.26      |        |      |      |     |     |     |       | 181  | OB    | 11.39  | 1.36  |  |
|        |      |          |          |        | 12 59 51.4 | -62 29 37 | 304.04     | 0.25      | 2868   | OB-  | 11.4 |     |     |     |       | 182  | OB-   | 11.82  | 0.72  |  |
|        |      |          |          |        | 13 0 43.6  | -64 49 50 | 304.05     | -2.09     |        |      |      |     |     |     |       | 183  | OB-   | 11.26  | 0.82  |  |
|        |      |          | -59 4640 | 7.5    | 12 59 13.8 | -60 15 42 | 304.05     | 2.48      |        |      |      | 746 | OB  |     |       | 186  | OB-   | 13.09  | 0.74  |  |
|        |      |          | -63 2485 | 8.6    | 13 0 35.8  | -64 30 41 | 304.05     | -1.78     |        |      |      | 752 | OB  |     |       |      |       |        |       |  |
|        |      |          | -59 4639 | 9.2    | 12 59 10.5 | -59 34 42 | 304.06     | 3.17      | 2864   | OB   | 10.1 |     |     | 192 | OB    |      |       |        |       |  |
| 112953 | 8.4  | B2       |          |        | 13 0 11.7  | -62 37 38 | 304.08     | 0.11      |        |      |      |     |     |     |       | 184  | OB-   | 11.12  | 1.14  |  |
|        |      |          |          |        | 13 0 32.1  | -63 38 46 | 304.08     | -0.90     | 2870   | OB-  | 11.0 | 750 | OB  |     |       |      |       |        |       |  |
|        |      |          | -58 4640 | 9.3    | 12 59 31.8 | -59 29 26 | 304.11     | 3.25      | 2867   | OB-  | 10.2 |     |     |     |       |      |       |        |       |  |
|        |      |          | -66 2047 | 9.5    | 13 2 12.1  | -66 42 7  | 304.12     | -3.97     | 2889   | B9II | 10.6 |     |     |     |       |      |       |        |       |  |
|        |      |          | -60 4387 | 9.2    | 13 0 4.6   | -60 56 56 | 304.13     | 1.79      | 2869   | OBle | 8.8  | 748 | OB  |     |       |      |       |        |       |  |
|        |      |          | -61 3419 | 8.9    | 13 0 33.2  | -62 4 25  | 304.14     | 0.67      | 2873   | OB   | 9.1  |     |     |     |       |      |       |        |       |  |
| 113014 | 8.5  | B8       |          |        | 13 1 4.6   | -63 21 57 | 304.15     | -0.63     | 2877   | OB-  | 11.9 |     |     |     |       |      |       |        |       |  |
| 113034 | 9.1  | B        | -61 3421 | 9.2    | 13 0 38.2  | -61 43 30 | 304.16     | 1.01      | 2874   | OB   | 9.8  | 753 | OB  | 193 | OB    |      |       |        |       |  |
| 112999 | 7.38 | B8       | -59 4651 | 8.1    | 13 0 20.3  | -60 33 41 | 304.18     | 2.17      |        |      |      | 749 | OB  |     |       |      |       |        |       |  |
| 113013 | 9.8  | B5       |          |        | 13 0 38.6  | -61 24 39 | 304.18     | 1.33      | 2875   | OB+r | 11.9 |     |     |     |       | 185  | OB    | 11.13  | 1.89  |  |
|        |      |          |          |        | 13 0 38.6  | -61 24 39 | 304.18     | 1.33      | 2875   | OB+r | 11.9 |     |     |     |       |      |       |        |       |  |
|        |      |          | -63 2494 | 10.1   | 13 1 29.2  | -63 43 14 | 304.18     | -0.98     | 2882   | OB-  | 11.6 |     |     |     |       |      |       |        |       |  |
|        |      |          | -63 2495 | 9.5    | 13 1 31.8  | -63 43 39 | 304.18     | -0.99     | 2883   | OB+c | 10.9 | 757 | OB+ | 195 | OB+   |      |       |        |       |  |
|        |      |          |          | 9.4    | 13 1 4.7   | -62 35 26 | 304.18     | 0.15      | 2878   | OB-  | 11.4 |     |     |     |       | 187  | OB-   | 11.11  | 1.36  |  |
|        |      |          |          |        | 13 0 27.4  | -60 19 57 | 304.20     | 2.41      | 2871   | OB-  | 9.1  |     |     |     |       |      |       |        |       |  |
|        |      | 13 2 9.5 | -64 45 9 | 304.21 | -2.02      | 2890      | OB:        | 12.3      |        |      |      |     | 193 | OB+ | 11.39 | 0.76 |       |        |       |  |

TABLE 1 (CONTINUED)

| HD/HDE | m    | ST  | CPD      | m    | 1980.0     |           | l      | b     | LS   | ST   | m    | KS  | ST  | Ly  | ST  | MO | ST | V   | B-V  |       |      |
|--------|------|-----|----------|------|------------|-----------|--------|-------|------|------|------|-----|-----|-----|-----|----|----|-----|------|-------|------|
|        |      |     |          |      | Alpha      | Delta     |        |       |      |      |      |     |     |     |     |    |    |     |      |       |      |
| 113012 | 8.3  | B5  | -59 4654 | 8.3  | 13 0 27.9  | -59 58 7  | 304.21 | 2.77  | 2872 | OBce | 8.1  | 751 | OB  |     |     |    |    |     |      |       |      |
| 312253 |      | B3  | -60 4390 | 9.2  | 13 0 49.3  | -60 53 42 | 304.22 | 1.84  | 2876 | OB   | 10.3 | 754 | OB  |     |     |    |    | 191 | OB-  | 11.63 | 0.57 |
|        |      |     |          |      | 13 1 53.6  | -63 50 11 | 304.22 | -1.10 |      |      |      |     |     |     |     |    |    | 189 | OB-  | 12.96 | 0.80 |
|        |      |     | -63 2501 | 9.4  | 13 1 56.7  | -63 36 28 | 304.24 | -0.87 | 2888 | OB   | 11.0 | 760 | OB  |     |     |    |    | 190 | OB-  | 11.82 | 0.78 |
| 113013 | 9.8  | B5  | -59 4653 | 8.8  | 13 1 12.1  | -61 16 51 | 304.25 | 1.46  | 2880 | OB+r | 11.0 |     |     |     |     |    |    |     |      |       |      |
|        |      |     | -60 4392 | 10.0 | 13 1 13.1  | -61 16 46 | 304.25 | 1.46  |      |      |      |     |     | 194 | OB+ |    |    | 188 | OB-  | 13.81 | 0.80 |
|        |      |     |          |      | 13 1 41.8  | -62 24 13 | 304.26 | 0.33  |      |      |      |     |     |     |     |    |    | 192 | OB   | 13.43 | 0.85 |
|        |      |     |          |      | 13 2 2.0   | -63 7 46  | 304.27 | -0.40 |      |      |      |     |     |     |     |    |    | 197 | OB-  | 12.27 | 0.47 |
|        |      |     | -59 4670 | 9.6  | 13 1 15.4  | -60 33 48 | 304.29 | 2.17  | 2881 | OB-  | 10.7 |     |     |     |     |    |    |     |      |       |      |
|        |      |     |          |      | 13 1 37.3  | -61 37 13 | 304.29 | 1.11  | 2886 | OB-  | 12.2 |     |     |     |     |    |    |     |      |       |      |
|        |      |     | -59 4675 | 9.1  | 13 1 26.2  | -60 26 7  | 304.31 | 2.30  | 2884 | OB-  | 10.7 |     |     |     |     |    |    |     |      |       |      |
| 113163 | 7.72 | B0  | -60 4396 | 8.4  | 13 1 33.3  | -60 38 7  | 304.32 | 2.10  | 2885 | OB-  | 8.3  | 758 | OB  |     |     |    |    |     |      |       |      |
|        |      |     | -63 2511 | 9.5  | 13 2 56.4  | -63 51 7  | 304.33 | -1.12 | 2893 | OB   | 11.0 | 761 | OB  |     |     |    |    |     |      |       |      |
|        |      |     |          |      | 13 2 13.1  | -62 7 32  | 304.33 | 0.61  |      |      |      |     |     |     |     |    |    | 195 | OB   | 12.40 | 0.99 |
|        |      |     |          |      | 13 3 35.5  | -65 6 42  | 304.34 | -2.38 |      |      |      |     |     |     |     |    |    | 208 | OB+  | 13.18 | 0.90 |
|        |      |     | -59 4679 | 9.5  | 13 1 32.1  | -59 47 40 | 304.35 | 2.93  |      |      |      | 759 | OB  |     |     |    |    | 200 | OB-  | 11.77 | 0.26 |
|        |      |     |          |      | 13 3 11.8  | -63 51 29 | 304.36 | -1.13 |      |      |      |     |     |     |     |    |    |     |      |       |      |
|        |      |     | -63 2512 | 9.2  | 13 3 12.3  | -63 49 30 | 304.36 | -1.10 | 2897 | OB   | 10.7 | 762 | OB  | 198 | OB  |    |    |     |      |       |      |
|        |      |     | -63 2513 | 9.2  | 13 3 18.9  | -63 51 13 | 304.37 | -1.13 | 2898 | OB   | 10.5 | 763 | OB  | 200 | OB+ |    |    |     |      |       |      |
|        |      |     |          |      | 13 3 17.0  | -63 51 7  | 304.37 | -1.12 |      |      |      |     |     |     |     |    |    | 202 | OB-  | 12.1: | 0.1: |
|        |      |     |          |      | 13 2 8.8   | -61 3 35  | 304.37 | 1.67  |      |      |      |     |     |     |     |    |    | 194 | OB-  | 11.74 | 1.79 |
|        |      |     | -59 4684 | 9.4  | 13 1 48.3  | -60 4 20  | 304.38 | 2.66  | 2887 | OB-  | 10.3 |     |     |     |     |    |    | 205 | OB-  | 12.79 | 0.48 |
| 113109 | 8.8  | B5  | -56 5541 | 8.6  | 13 3 29.6  | -63 56 48 | 304.39 | -1.22 |      |      |      | 755 | OB  |     |     |    |    |     |      |       |      |
|        |      |     |          |      | 13 0 48.8  | -57 7 41  | 304.39 | 5.60  |      |      |      |     |     |     |     |    |    | 211 | OB-  | 11.93 | 0.33 |
|        |      |     |          |      | 13 3 51.3  | -64 34 48 | 304.40 | -1.85 | 2909 | OB   | 11.8 |     |     |     |     |    |    | 207 | OB+  | 12.14 | 0.88 |
|        |      |     |          |      | 13 3 32.8  | -63 57 47 | 304.40 | -1.24 |      |      |      |     |     |     |     |    |    |     |      |       |      |
|        |      |     | -59 4688 | 9.1  | 13 2 1.0   | -60 11 38 | 304.40 | 2.54  | 2891 | OB   | 10.0 |     |     |     |     |    |    |     |      |       |      |
| 312287 |      | B0  | -62 2992 | 9.8  | 13 3 17.9  | -62 59 34 | 304.42 | -0.27 | 2899 | OB   | 11.0 |     |     | 199 | OB+ |    |    |     |      |       |      |
|        |      |     |          |      | 13 3 30.7  | -63 27 7  | 304.42 | -0.73 | 2904 | OB   | 13.2 |     |     |     |     |    |    |     |      |       |      |
| 113432 | 9.3  | B5  | -62 2993 | 8.9  | 13 3 33.2  | -63 23 2  | 304.43 | -0.66 | 2906 | OBle | 9.5  | 766 | OB  |     |     |    |    | 206 | OB-  | 12.25 | 0.74 |
|        |      |     |          |      | 13 3 30.9  | -63 13 18 | 304.43 | -0.50 | 2905 | OB-  | 12.5 |     |     |     |     |    |    | 201 | OB+  | 13.55 | 1.14 |
|        |      |     |          |      | 13 3 13.8  | -62 39 27 | 304.43 | 0.07  |      |      |      |     |     |     |     |    |    | 196 | OB   | 13.18 | 1.59 |
|        |      |     |          |      | 13 2 49.2  | -61 39 53 | 304.43 | 1.06  |      |      |      |     |     |     |     |    |    | 213 | OB-  | 12.67 | 0.46 |
|        |      |     |          |      | 13 3 58.1  | -63 57 54 | 304.44 | -1.24 |      |      |      |     |     |     |     |    |    | 216 | OB-  | 13.56 | 0.63 |
| 113511 | 9.3  | B0  | -63 2519 | 8.8  | 13 4 37.5  | -65 9 27  | 304.45 | -2.44 |      |      |      |     |     |     |     |    |    |     |      |       |      |
|        |      |     |          |      | 13 4 3.7   | -63 56 35 | 304.45 | -1.22 | 2912 | OB   | 9.3  | 767 | OB  | 204 | OB  |    |    |     |      |       |      |
|        |      |     |          |      | 13 3 46.4  | -63 23 55 | 304.45 | -0.67 | 2908 | OB-  | 12.1 |     |     |     |     |    |    |     |      |       |      |
|        |      |     |          |      | 13 3 45.4  | -63 22 30 | 304.45 | -0.65 | 2907 | OB-  | 12.1 |     |     |     |     |    |    | 209 | OB-  | 12.14 | 0.70 |
|        |      |     |          |      | 13 3 0.4   | -61 37 50 | 304.45 | 1.10  |      |      |      |     |     |     |     |    |    | 199 | OB+  | 11.49 | 1.54 |
|        |      |     |          |      | 13 3 21.9  | -62 16 37 | 304.46 | 0.45  |      |      |      |     |     |     |     |    |    | 203 | OB   | 12.11 | 0.81 |
|        |      |     | -60 4407 | 9.2  | 13 2 49.1  | -60 48 35 | 304.47 | 1.92  | 2892 | OB   | 10.3 |     |     |     |     |    |    |     |      |       |      |
|        |      |     | -60 4408 | 9.8  | 13 3 0.5   | -61 12 31 | 304.47 | 1.52  | 2895 | OB+  | 10.9 |     |     | 196 | OB+ |    |    | 198 | OB-  | 11.89 | 1.05 |
|        |      |     | -60 4412 | 9.5  | 13 3 5.4   | -61 1 42  | 304.49 | 1.70  | 2896 | OB   | 10.7 |     |     | 197 | OB+ |    |    |     |      |       |      |
| 312256 |      | B   |          |      | 13 3 20.8  | -61 33 52 | 304.49 | 1.16  | 2900 | OB   | 10.2 |     |     |     |     |    |    |     |      |       |      |
| 113422 | 8.4  | B0  | -61 3439 | 8.6  | 13 3 21.9  | -61 36 13 | 304.49 | 1.12  | 2901 | OB   | 8.5  | 765 | OB  | 201 | OB+ |    |    |     |      |       |      |
| 312267 |      | B5  | -61 3440 | 9.6  | 13 3 22.7  | -61 46 59 | 304.49 | 0.94  | 2903 | OB-  | 10.3 |     |     | 202 | OB  |    |    |     |      |       |      |
|        |      |     |          |      | 13 4 7.7   | -63 6 28  | 304.50 | -0.39 |      |      |      |     |     |     |     |    |    | 214 | OB-  | 12.29 | 0.95 |
|        |      |     |          |      | 13 3 27.3  | -61 36 6  | 304.50 | 1.12  |      |      |      |     |     |     |     |    |    | 204 | BI : | 13.78 | 1.18 |
| 113347 | 8.5  | A2  | -59 4700 | 8.6  | 13 2 50.7  | -60 4 57  | 304.50 | 2.64  | 2894 | F0II | 8.1  |     |     |     |     |    |    |     |      |       |      |
|        |      |     | -67 2190 | 9.6  | 13 7 1.6   | -67 55 33 | 304.52 | -5.21 | 2934 | OB   | 10.5 |     |     | 218 | OB  |    |    |     |      |       |      |
|        |      |     | -64 2161 | 9.2  | 13 5 14.8  | -64 58 23 | 304.52 | -2.25 | 2919 | OBce | 10.0 | 773 | OB  |     |     |    |    |     |      |       |      |
| 113606 | 9.0  | B2  | -63 2527 | 8.6  | 13 4 46.3  | -64 8 8   | 304.52 | -1.42 | 2914 | OB+  | 9.7  | 768 | OB  | 207 | OB+ |    |    |     |      |       |      |
|        |      |     |          |      | 13 3 55.0  | -62 22 11 | 304.52 | 0.35  |      |      |      |     |     |     |     |    |    | 212 | OB+  | 12.94 | 1.20 |
| 113659 | 8.1  | B2  | -64 2160 | 8.0  | 13 4 57.2  | -64 58 44 | 304.53 | -2.26 |      |      |      |     |     |     |     |    |    |     |      |       |      |
|        |      |     | -71 1435 | 9.7  | 13 10 11.9 | -71 50 00 | 304.53 | -9.13 | 1A69 | OB-c | 10.5 |     |     |     |     |    |    |     |      |       |      |
| 113708 | 6.7  | B5  | -64 2163 | 7.8  | 13 5 30.7  | -65 6 17  | 304.54 | -2.39 | 2921 | OB   | 9.0  |     |     |     |     |    |    |     |      |       |      |
| 114200 | 9.62 | Bp  | -70 1567 | 8.0  | 13 9 28.3  | -70 42 10 | 304.54 | -8.00 | 2949 | OB+  | 8.7  | 786 | OB+ |     |     |    |    | 210 | OB+  | 12.56 | 1.82 |
|        |      |     |          |      | 13 3 43.8  | -61 24 35 | 304.55 | 1.31  |      |      |      |     |     |     |     |    |    |     |      |       |      |
|        |      |     | -61 3442 | 9.8  | 13 3 53.2  | -61 38 3  | 304.55 | 1.09  | 2911 | OB-  | 11.0 |     |     | 203 | OB  |    |    |     |      |       |      |
|        |      |     | -60 4425 | 9.8  | 13 3 51.4  | -61 30 47 | 304.57 | 1.21  |      |      |      |     |     |     |     |    |    |     |      |       |      |
|        |      |     |          |      | 13 4 38.2  | -62 42 48 | 304.58 | 0.01  |      |      |      |     |     |     |     |    |    | 218 | OB-  | 13.15 | 0.65 |
| 113421 | 10.0 | B0  | -59 4711 | 8.9  | 13 3 18.3  | -59 43 2  | 304.58 | 3.01  | 2902 | OB-  | 9.5  | 764 | OB  |     |     |    |    |     |      |       |      |
|        |      |     | -60 4430 | 9.7  | 13 4 15.8  | -61 33 33 | 304.60 | 1.16  | 2913 | OB   | 10.6 |     |     | 205 | OB+ |    |    |     |      |       |      |
|        |      |     | -59 4715 | 9.2  | 13 3 42.2  | -60 19 25 | 304.60 | 2.40  | 2910 | OB-  | 10.0 |     |     |     |     |    |    |     |      |       |      |
|        |      |     |          |      | 13 4 10.0  | -61 15 18 | 304.61 | 1.46  |      |      |      |     |     |     |     |    |    | 215 | OB+  | 13.21 | 1.93 |
| 113605 | 10.0 | B8  | -61 3445 | 9.0  | 13 4 42.8  | -62 7 48  | 304.62 | 0.59  | 2916 | OB-h | 10.1 | 769 | OB  |     |     |    |    |     |      |       |      |
|        |      |     | -65 2163 | 9.2  | 13 6 55.0  | -65 54 20 | 304.64 | -3.20 | 2935 | OB   | 10.3 |     |     | 217 | OB  |    |    |     |      |       |      |
|        |      |     | -63 2539 | 9.2  | 13 6 0.1   | -63 56 45 | 304.66 | -1.23 | 2929 | OB-  | 10.7 |     |     | 215 | OB  |    |    |     |      |       |      |
| 113904 | 5.64 | Oap | -64 2183 | 6.1  | 13 6 48.3  | -65 11 55 | 304.67 | -2.49 | 2933 | WCh  | 6.6  |     |     |     |     |    |    |     |      |       |      |
|        |      |     |          |      | 13 5 22.5  | -62 45 27 | 304.67 | -0.04 |      |      |      |     |     |     |     |    |    | 221 | OB+  | 12.58 | 1.76 |
|        |      |     |          |      | 13 5 16.8  | -62 31 7  | 304.67 | 0.20  |      |      |      |     |     |     |     |    |    |     |      |       |      |

TABLE 1 (CONTINUED)

| 1980.0 |      |      |          |      |       |        |       |      |     |      |        |       |      |      |      |     |       |      |      |        |      |     |     |     |      |       |       |      |
|--------|------|------|----------|------|-------|--------|-------|------|-----|------|--------|-------|------|------|------|-----|-------|------|------|--------|------|-----|-----|-----|------|-------|-------|------|
| HD/HDE | m    | ST   | CPD      | m    | Alpha | Delta  | l     | b    | LS  | ST   | m      | KS    | ST   | Ly   | ST   | MO  | ST    | V    | B-V  |        |      |     |     |     |      |       |       |      |
| 113742 | 10.1 | B5   | -61 3450 | 9.4  | 13    | 5      | 45.3  | -62  | 33  | 23   | 304.72 | 0.15  | 2922 | OB-  | 10.4 | 210 | OB-   | 223  | OB-  | 12.17  | 0.59 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 5      | 22.8  | -61  | 45  | 2    | 304.72 | 0.96  |      |      |      |     |       | 224  | OB-  | 13.65  | 0.79 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 5      | 53.9  | -62  | 37  | 23   | 304.73 | 0.09  |      |      |      |     |       | 227  | OB+  | 12.26  | 1.28 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 6      | 10.0  | -62  | 58  | 48   | 304.74 | -0.27 |      |      |      |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 5      | 13.0  | -60  | 54  | 24   | 304.75 | 1.81  |      |      |      |     |       | 2920 | OB-h | 10.0   | 772  | OB  |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 5      | 33.4  | -61  | 40  | 37   | 304.75 | 1.03  |      |      |      |     |       | 2923 | OB   | 9.7    | 774  | OB  | 211 | OB+ |      |       |       |      |
|        |      |      |          |      | 13    | 5      | 38.0  | -61  | 50  | 16   | 304.75 | 0.87  |      |      |      |     |       | 2925 | OB-  | 9.1    |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 4      | 53.8  | -60  | 39  | 38   | 304.76 | 2.05  |      |      |      |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 5      | 53.1  | -61  | 56  | 31   | 304.77 | 0.77  |      |      |      |     |       |      |      |        |      | 209 | OB  |     |      |       |       |      |
|        |      |      |          |      | 13    | 5      | 43.3  | -61  | 35  | 12   | 304.77 | 1.12  |      |      |      |     |       |      |      |        |      | 214 | OB  |     |      |       |       |      |
|        |      |      |          |      | 13    | 6      | 1.6   | -62  | 2   | 3    | 304.78 | 0.67  |      |      |      |     |       |      |      |        |      |     |     | 222 | OB-: | 13.80 | 1.20  |      |
|        |      |      |          |      | 13    | 6      | 51.5  | -63  | 25  | 13   | 304.79 | -0.72 |      |      |      |     |       | 2936 | OBh  | 11.8   |      |     |     | 225 | OB   | 13.49 | 1.05  |      |
|        |      |      |          |      | 13    | 7      | 15.6  | -64  | 2   | 51   | 304.80 | -1.34 |      |      |      |     |       |      |      |        |      |     |     | 233 | OB   | 11.67 | 0.74  |      |
|        |      |      |          |      | 13    | 6      | 17.4  | -62  | 15  | 51   | 304.80 | 0.44  |      |      |      |     |       | 2931 | OB   | 10.0   | 776  | OB  |     |     | 237  | OB-   | 13.09 | 0.84 |
|        |      |      |          |      | 13    | 6      | 32.7  | -62  | 31  | 30   | 304.81 | 0.18  |      |      |      |     |       |      |      |        |      |     |     | 229 | OB-  | 12.4: | 0.8:  |      |
| 13     | 7    | 41.4 | -64      | 25   | 51    | 304.82 | -1.73 | 2943 | OB- | 10.6 | 781    | OB    |      |      | 226  | OB+ | 11.22 | 1.48 |      |        |      |     |     |     |      |       |       |      |
| 13     | 6    | 2.3  | -61      | 7    | 48    | 304.84 | 1.58  | 2930 | OB  | 11.8 |        |       |      |      |      |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114954 | 10.0 | F8   | -71 1446 | 9.9  | 13    | 14     | 33.4  | -71  | 58  | 7    | 304.86 | -9.29 | IA70 | F2II | 9.9  |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 13.7  | -62  | 58  | 25   | 304.86 | -0.27 |      |      |      |     |       | 236  | OB-  | 13.26  | 0.41 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 15.1  | -62  | 51  | 24   | 304.87 | -0.16 |      |      |      |     |       | 238  | OB+  | 13.79  | 0.97 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 6      | 33.0  | -61  | 40  | 49   | 304.87 | 1.02  |      |      |      |     |       | 230  | OB-  | 13.00  | 1.06 |     |     |     |      |       |       |      |
| 113741 | 9.1  | B8   | -58 4687 | 9.0  | 13    | 5      | 31.3  | -59  | 30  | 37   | 304.87 | 3.20  | 2924 | OB-  | 10.0 |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114169 | 9.6  | B3   | -64 2212 | 9.0  | 13    | 8      | 51.4  | -65  | 9   | 35   | 304.89 | -2.47 |      |      |      | 783 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 6      | 29.0  | -61  | 7   | 58   | 304.89 | 1.57  |      |      |      |     |       | 228  | OB-: | >12.29 | 0.6: |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 6      | 35.7  | -61  | 5   | 24   | 304.91 | 1.61  |      |      |      |     |       | 231  | OB   | 11.78  | 0.80 |     |     |     |      |       |       |      |
|        |      |      | -61 3469 | 9.0  | 13    | 7      | 5.4   | -62  | 4   | 18   | 304.91 | 0.63  | 2937 | OB-  | 9.6  |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 8      | 8.2   | -63  | 36  | 52   | 304.92 | -0.92 |      |      |      |     |       | 248  | OB : | 13.72  | 1.16 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 57.4  | -63  | 8   | 37   | 304.93 | -0.45 |      |      |      |     |       | 246  | OB-  | 13.57  | 0.44 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 2.9   | -61  | 35  | 1    | 304.93 | 1.12  |      |      |      |     |       | 235  | OB-  | 12.21  | 0.79 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 6      | 49.9  | -61  | 14  | 49   | 304.93 | 1.45  |      |      |      |     |       | 234  | OB-  | 12.61  | 0.92 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 30.2  | -62  | 13  | 30   | 304.94 | 0.47  |      |      |      |     |       | 240  | OB-  | 11.80  | 0.58 |     |     |     |      |       |       |      |
| 114199 | 9.7  | B0   | -63 2579 | 9.1  | 13    | 7      | 56.9  | -62  | 50  | 1    | 304.95 | -0.14 | 2945 | OB-  | 11.4 |     |       | 245  | OB-  | 11.69  | 0.3: |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 9      | 1.5   | -64  | 21  | 00   | 304.97 | -1.66 | 2948 | OB   | 9.7  | 784 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 8      | 32.9  | -63  | 36  | 42   | 304.97 | -0.92 |      |      |      |     |       | 253  | OB+  | 12.49  | 1.10 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 46.1  | -62  | 21  | 7    | 304.97 | 0.34  |      |      |      |     |       | 242  | OB+  | 11.8:  | 1.6: |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 49.4  | -62  | 20  | 58   | 304.97 | 0.35  |      |      |      |     |       | 243  | OB+  | 11.58  | 1.85 |     |     |     |      |       |       |      |
|        |      |      | -60 4460 | 9.6  | 13    | 7      | 5.3   | -61  | 7   | 39   | 304.97 | 1.57  | 2938 | OB-  | 10.6 |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -64 2226 | 9.7  | 13    | 9      | 53.2  | -65  | 24  | 25   | 304.98 | -2.72 | 2955 | OB-  | 10.7 |     |       | 219  | OB   |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 8      | 44.4  | -63  | 42  | 15   | 304.98 | -1.01 |      |      |      |     |       | 255  | OB-  | 13.70  | 0.53 |     |     |     |      |       |       |      |
|        |      |      | -61 3472 | 9.1  | 13    | 7      | 42.1  | -62  | 0   | 34   | 304.98 | 0.69  | 2944 | OB-  | 9.6  |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -60 4463 | 8.8  | 13    | 7      | 10.7  | -61  | 5   | 42   | 304.98 | 1.60  | 2939 | OB   | 9.1  |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114122 | 9.9  | B0   | -62 3028 | 8.8  | 13    | 8      | 17.0  | -62  | 45  | 53   | 305.00 | -0.07 | 2946 | OB+  | 9.7  | 782 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 54.7  | -62  | 2   | 34   | 305.00 | 0.65  |      |      |      |     |       | 244  | OB   | 13.40  | 1.11 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 41.2  | -61  | 43  | 41   | 305.00 | 0.97  |      |      |      |     |       | 241  | OB+  | 12.84  | 1.64 |     |     |     |      |       |       |      |
| 114011 | 9.0  | B0   | -60 4466 | 8.8  | 13    | 8      | 18.2  | -62  | 33  | 49   | 305.01 | 0.13  |      |      |      |     |       | 251  | OB-  | 13.16  | 0.34 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 27.5  | -61  | 4   | 48   | 305.01 | 1.62  | 2940 | OB   | 9.7  | 778 | OB    | 220  | OB   |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 8      | 5.2   | -62  | 3   | 52   | 305.02 | 0.63  |      |      |      |     |       | 247  | OB-  | 11.42  | 0.58 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 27.8  | -61  | 1   | 39   | 305.02 | 1.67  |      |      |      |     |       | 239  | OB-  | 11.38  | 0.76 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 8      | 31.0  | -62  | 31  | 8    | 305.04 | 0.17  |      |      |      |     |       | 252  | OB-  | 13.14  | 0.39 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 8      | 16.9  | -61  | 55  | 27   | 305.05 | 0.77  |      |      |      |     |       | 250  | OB-  | 12.68  | 0.84 |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 8      | 9.7   | -61  | 51  | 14   | 305.05 | 0.84  |      |      |      |     |       | 249  | OB-  | 13.59  | 0.57 |     |     |     |      |       |       |      |
| 114026 | 8.46 | B2   | -59 4769 | 8.4  | 13    | 9      | 49.5  | -64  | 14  | 12   | 305.06 | -1.55 | 2954 | OB   | 10.8 |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 7      | 29.0  | -60  | 13  | 54   | 305.07 | 2.46  | 2942 | OB-  | 8.5  | 779 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 8      | 35.1  | -61  | 57  | 15   | 305.09 | 0.73  |      |      |      |     |       | 254  | OB-  | 12.50  | 0.52 |     |     |     |      |       |       |      |
| 114024 | 10.5 | B    | -59 4766 | 9.2  | 13    | 7      | 25.6  | -59  | 33  | 38   | 305.11 | 3.13  | 2941 | OB   | 10.3 | 780 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -60 4480 | 9.1  | 13    | 8      | 36.5  | -61  | 1   | 31   | 305.16 | 1.66  | 2947 | OB-  | 9.4  |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114213 | 8.9  | B3   | -63 2609 | 9.7  | 13    | 11     | 1.4   | -64  | 31  | 27   | 305.17 | -1.85 |      |      |      | 224 | OB+   |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -60 4485 | 8.9  | 13    | 9      | 5.1   | -61  | 21  | 58   | 305.19 | 1.32  | 2950 | OB   | 9.5  | 785 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -63 2613 | 9.8  | 13    | 11     | 8.4   | -64  | 1   | 53   | 305.22 | -1.36 | 2969 | OB   | 11.8 |     |       | 256  | OB-: | 11.41  | 0.44 |     |     |     |      |       |       |      |
|        |      |      | -60 4488 | 9.8  | 13    | 9      | 19.4  | -61  | 21  | 19   | 305.22 | 1.33  | 2951 | OB-  | 12.1 |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114461 | 6.40 | F0   | -62 3046 | 7.3  | 13    | 10     | 35.8  | -63  | 11  | 48   | 305.23 | -0.52 | 2964 | F0II | 7.2  |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -61 3491 | 10.1 | 13    | 10     | 13.3  | -62  | 29  | 47   | 305.24 | 0.18  | 2960 | OB   | 11.9 |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114516 | 8.9  | B8   | -63 2612 | 8.7  | 13    | 11     | 4.5   | -63  | 42  | 20   | 305.24 | -1.03 | 2967 | OB-  | 9.0  |     |       | 225  | OB   |        |      |     |     |     |      |       |       |      |
|        |      |      | -60 4489 | 10.1 | 13    | 9      | 21.5  | -60  | 59  | 55   | 305.25 | 1.68  | 2952 | OB-h | 11.4 |     |       | 221  | OB+  |        |      |     |     |     |      |       |       |      |
|        |      |      | -64 2264 | 9.4  | 13    | 11     | 58.0  | -64  | 45  | 33   | 305.25 | -2.09 |      |      |      | 792 | OB    |      |      |        |      |     |     |     |      |       |       |      |
| 114478 | 9.6  | B0   | -62 3048 | 8.6  | 13    | 10     | 40.6  | -62  | 42  | 34   | 305.27 | -0.04 | 2965 | OB   | 9.6  |     |       | 223  | OB   |        |      |     |     |     |      |       |       |      |
|        |      |      | -63 4627 | 9.5  | 13    | 11     | 57.4  | -64  | 27  | 24   | 305.27 | -1.79 | 2975 | OB-  | 11.3 |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 12     | 31.7  | -65  | 11  | 59   | 305.27 | -2.54 | 2979 | W(N) | 13.4 |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 9      | 36.5  | -60  | 56  | 19   | 305.28 | 1.74  | 2953 | OB   | 10.4 |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -60 4490 | 9.2  | 13    | 9      | 37.5  | -60  | 59  | 40   | 305.28 | 1.68  |      |      |      | 222 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -61 3492 | 10.1 | 13    | 10     | 18.8  | -62  | 7   | 24   | 305.28 | 0.55  | 2961 | OB   | 11.4 |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -62 3058 | 10.0 | 13    | 11     | 22.0  | -62  | 36  | 42   | 305.36 | 0.05  | 2970 | OB-  | 11.5 |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114341 | 8.7  | B0   | -59 4798 | 9.6  | 13    | 9      | 43.9  | -60  | 0   | 55   | 305.37 | 2.66  | 2956 | OB-  | 9.6  |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -59 4801 | 8.8  | 13    | 9      | 46.4  | -60  | 1   | 0    | 305.37 | 2.66  | 2957 | OB-  | 9.3  | 787 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 21     | 9.3   | -71  | 53  | 5    | 305.38 | -9.26 | IA71 | A0II | 12.0 |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -61 3502 | 9.7  | 13    | 11     | 23.4  | -62  | 18  | 54   | 305.39 | 0.35  | 2971 | OB   | 11.0 |     |       | 226  | OB+  |        |      |     |     |     |      |       |       |      |
| 114340 | 8.0  | B0   | -59 4804 | 8.5  | 13    | 9      | 48.4  | -59  | 38  | 25   | 305.40 | 3.03  | 2958 | OB+  | 8.9  | 788 | OB    |      |      |        |      |     |     |     |      |       |       |      |
| 114489 | 7.3  | F0   | -60 4508 | 8.1  | 13    | 10     | 39.0  | -61  | 0   | 39   | 305.40 | 1.66  | 2966 | F2Ib | 7.3  |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114737 | 8.1  | B2   | -62 3079 | 8.0  | 13    | 12     | 27.3  | -63  | 28  | 50   | 305.41 | -0.82 | 2981 | OB   | 8.4  | 796 | OB    |      |      |        |      |     |     |     |      |       |       |      |
| 114394 | 8.4  | B3   | -58 4723 | 8.1  | 13    | 10     | 5.3   | -59  | 28  | 15   | 305.45 | 3.20  | 2959 | OB-  | 8.6  | 789 | OB    |      |      |        |      |     |     |     |      |       |       |      |
| 114530 | 9.5  | B8   | -60 4512 | 8.7  | 13    | 10     | 58.8  | -60  | 57  | 53   | 305.45 | 1.70  | 2968 | OB-  | 9.2  | 790 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      |          |      | 13    | 22     | 47.3  | -72  | 21  | 55   | 305.45 | -9.76 | IA98 | OB-  | 11.0 |     |       |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -60 4520 | 8.1  | 13    | 11     | 30.4  | -61  | 24  | 24   | 305.48 | 1.25  | 2973 | OB   | 11.8 |     |       |      |      |        |      |     |     |     |      |       |       |      |
| 114800 | 7.8  | B0   | -62 3090 | 7.8  | 13    | 12     | 53.5  | -63  | 16  | 3    | 305.48 | -0.61 | 2986 | OBce | 8.3  | 798 | OB    |      |      |        |      |     |     |     |      |       |       |      |
|        |      |      | -61 3512 | 9.1  | 13    | 12     | 23.5  | -62  | 29  | 31   | 305.49 | 0.16  | 2978 | OB   | 10.4 | 794 | OB    |      |      |        |      |     |     |     |      |       |       |      |

TABLE 1 (CONTINUED)

| HD/HDE | m    | ST       | CPD      | m          | 1980.0     |           | l      | b     | LS   | ST   | m    | KS  | ST  | Ly  | ST  | MO  | ST  | V | B-V |
|--------|------|----------|----------|------------|------------|-----------|--------|-------|------|------|------|-----|-----|-----|-----|-----|-----|---|-----|
|        |      |          |          |            | Alpha      | Delta     |        |       |      |      |      |     |     |     |     |     |     |   |     |
| 114792 | 7.2  | F5       | -62 3086 | 9.6        | 13 12 42.7 | -62 46 42 | 305.50 | -0.12 | 2984 | OB-  | 10.7 |     |     | 230 | OB  |     |     |   |     |
|        |      |          | -60 4518 | 9.4        | 13 11 25.4 | -60 54 45 | 305.51 | 1.75  | 2972 | OBh  | 10.5 |     |     | 227 | OB+ |     |     |   |     |
|        |      |          | -60 4519 | 9.2        | 13 11 29.9 | -60 49 33 | 305.52 | 1.83  |      |      |      | 791 | OB  |     |     |     |     |   |     |
|        |      |          | -60 4523 | 9.2        | 13 11 40.6 | -61 4 29  | 305.52 | 1.58  | 2974 | OB-  | 10.7 |     |     |     |     |     |     |   |     |
|        |      |          | -61 3516 | 8.1        | 13 12 44.4 | -62 32 53 | 305.52 | 0.10  | 2985 | F8Ib | 7.9  |     |     |     |     |     |     |   |     |
| 114886 | 6.96 | B3       | -62 3092 | 9.7        | 13 13 3.7  | -63 2 24  | 305.52 | -0.39 | 2987 | OB-  | 11.2 |     |     | 231 | OB  |     |     |   |     |
|        |      |          | -62 3096 | 7.3        | 13 13 26.2 | -63 28 29 | 305.52 | -0.83 | 2989 | OB   | 7.0  | 799 | OB+ |     |     |     |     |   |     |
|        |      |          | -60 4528 | 8.5        | 13 11 51.1 | -60 59 00 | 305.55 | 1.67  | 2976 | OB-  | 8.9  | 793 | OB  |     |     |     |     |   |     |
| 115034 | 9.1  | B2       | -61 3510 | 9.2        | 13 12 15.3 | -61 34 9  | 305.55 | 1.08  | 2977 | OB-  | 10.0 |     |     | 228 | OB  |     |     |   |     |
|        |      |          | -63 2662 | 8.7        | 13 14 0.6  | -63 46 31 | 305.61 | -1.13 |      |      |      | 801 | OB  |     |     |     |     |   |     |
|        |      |          |          |            | 13 22 30.3 | -70 54 55 | 305.61 | -8.32 | IA52 | OB   | 12.2 |     |     |     |     |     |     |   |     |
| 115071 | 8.1  | B2       |          |            | 13 17 58.6 | -67 11 11 | 305.63 | -4.57 | 3025 | OB-  | 12.3 |     |     |     |     |     |     |   |     |
|        |      |          | -60 4539 | 9.8        | 13 12 37.4 | -61 3 56  | 305.64 | 1.58  | 2983 | OB+  | 10.8 |     |     | 229 | OB+ |     |     |   |     |
|        |      |          | -60 4535 | 9.2        | 13 12 25.4 | -60 36 1  | 305.65 | 2.05  | 2982 | OB-  | 10.4 | 797 | OB  |     |     |     |     |   |     |
|        |      |          |          |            | 13 14 56.6 | -63 24 37 | 305.69 | -0.78 | 2999 | B6I  | 11.4 |     |     |     |     |     |     |   |     |
|        |      |          | -61 3531 | 9.8        | 13 13 59.2 | -62 1 35  | 305.71 | 0.61  | 2992 | OB-  | 10.3 |     |     |     |     |     |     |   |     |
|        |      |          | -60 4549 | 10.2       | 13 13 40.4 | -61 27 47 | 305.73 | 1.18  | 2990 | OB   | 11.8 |     |     |     |     |     |     |   |     |
|        |      |          |          |            | 13 15 35.7 | -63 49 36 | 305.73 | -1.20 | 3006 | OB+  | 11.6 |     |     |     |     |     |     |   |     |
|        |      |          | -61 3544 | 8.1        | 13 14 47.0 | -62 28 42 | 305.76 | 0.15  | 2998 | OB-  | 8.2  | 805 | OB  |     |     |     |     |   |     |
|        |      |          | -62 3111 | 9.3        | 13 14 56.6 | -62 36 30 | 305.77 | 0.02  |      |      |      | 806 | OB  |     |     |     |     |   |     |
|        |      |          | -61 3539 | 9.0        | 13 14 27.2 | -61 45 34 | 305.79 | 0.87  | 2995 | OB+  | 9.5  | 803 | OB  |     |     |     |     |   |     |
| 115042 | 10.2 | B0       | -61 3540 | 9.4        | 13 14 29.8 | -61 53 1  | 305.79 | 0.75  | 2996 | OB   | 10.5 | 802 | OB  |     |     |     |     |   |     |
|        |      |          | -62 3121 | 9.6        | 13 15 40.4 | -63 15 14 | 305.79 | -0.63 | 3007 | OB   | 11.1 |     |     | 234 | OB  |     |     |   |     |
|        |      |          | -54 5472 | 7.4        | 13 10 16.4 | -55 15 00 | 305.80 | 7.40  | 2962 | OB-  | 8.4  |     |     |     |     |     |     |   |     |
|        |      |          | -60 4551 | 9.0        | 13 13 53.0 | -60 51 41 | 305.81 | 1.77  | 2991 | OB   | 10.0 | 800 | OB  |     |     | 233 | OB+ |   |     |
|        |      |          | -61 3549 | 9.5        | 13 15 7.8  | -62 27 13 | 305.81 | 0.17  | 3003 | OB:  | 11.2 |     |     |     |     |     |     |   |     |
| 114733 | 9.0  | B0       | -61 3550 | 9.6        | 13 15 13.1 | -62 26 6  | 305.82 | 0.19  | 3004 | OB:  | 12.5 |     |     |     |     |     |     |   |     |
|        |      |          | -57 5952 | 9.0        | 13 12 15.0 | -58 15 24 | 305.83 | 4.38  | 2980 | OB-  | 9.7  | 795 | OB  |     |     |     |     |   |     |
|        |      |          | -60 4553 | 9.2        | 13 14 16.0 | -61 2 60  | 305.84 | 1.58  | 2993 | OB-  | 10.0 |     |     |     |     |     |     |   |     |
|        |      |          | -60 4557 | 9.8        | 13 14 25.0 | -61 3 25  | 305.85 | 1.57  | 2994 | OB+  | 11.0 |     |     | 232 | OB+ |     |     |   |     |
|        |      |          | -61 3547 | 10.0       | 13 14 58.9 | -61 48 33 | 305.85 | 0.82  | 3001 | OB-  | 10.3 |     |     |     |     |     |     |   |     |
| 115114 | 10.2 | B0       |          |            | 13 15 6.4  | -61 55 45 | 305.85 | 0.70  | 3002 | OB-h | 11.4 |     |     |     |     |     |     |   |     |
|        |      |          | -61 3546 | 9.0        | 13 14 58.5 | -61 39 25 | 305.86 | 0.97  | 3000 | OB+1 | 9.9  | 807 | OB  |     |     |     |     |   |     |
|        |      |          | -63 2684 | 8.3        | 13 16 47.6 | -63 34 55 | 305.88 | -0.97 | 3014 | OB+  | 8.6  | 809 | OB  |     |     |     |     |   |     |
|        |      |          | -61 3558 | 9.4        | 13 15 55.9 | -62 30 59 | 305.89 | 0.10  |      |      |      |     |     | 235 | OB- |     |     |   |     |
|        |      |          | -60 4558 | 8.8        | 13 14 36.3 | -60 43 14 | 305.91 | 1.90  | 2997 | OB+  | 9.6  | 804 | OB  |     |     |     |     |   |     |
| 115400 | 7.5  | F5       | -60 4564 | 9.0        | 13 15 13.7 | -61 18 14 | 305.93 | 1.32  | 3005 | OB-  | 10.0 |     |     |     |     |     |     |   |     |
|        |      |          | -62 3137 | 8.0        | 13 17 0.7  | -63 20 37 | 305.93 | -0.73 | 3016 | F5II | 8.1  |     |     |     |     |     |     |   |     |
|        |      |          |          |            | 13 16 26.2 | -62 40 00 | 305.94 | -0.05 | 3009 | OB-  | 12.1 |     |     |     |     |     |     |   |     |
| 115316 | 10.2 | B2       |          |            | 13 16 32.5 | -62 44 49 | 305.94 | -0.13 | 3012 | OB-  | 11.6 |     |     |     |     |     |     |   |     |
|        |      |          | -61 3566 | 9.0        | 13 16 26.3 | -62 20 55 | 305.97 | 0.26  | 3010 | OB   | 9.7  | 808 | OB  | 236 | OB  |     |     |   |     |
|        |      |          |          |            | 13 16 50.8 | -62 34 35 | 305.99 | 0.03  | 3015 | OB-  | 11.4 |     |     |     |     |     |     |   |     |
| 115484 | 9.9  | B2       | -62 3147 | 9.2        | 13 17 30.7 | -63 19 3  | 305.99 | -0.71 | 3023 | OB-  | 10.2 |     |     | 243 | OB  |     |     |   |     |
|        |      |          | -61 3569 | 8.9        | 13 16 42.5 | -62 19 48 | 306.00 | 0.28  | 3013 | WCh  | 13.3 |     |     |     |     |     |     |   |     |
|        |      |          | -62 2148 | 9.8        | 13 17 49.7 | -63 27 53 | 306.01 | -0.86 | 3028 | OB   | 11.6 |     |     |     |     |     |     |   |     |
|        |      |          | -62 3141 | 9.6        | 13 17 12.1 | -62 33 24 | 306.03 | 0.05  | 3018 | OB-h | 10.9 |     |     | 238 | OB  |     |     |   |     |
|        |      |          |          |            | 13 17 4.2  | -62 22 2  | 306.04 | 0.24  | 3017 | WR   | 13.5 |     |     |     |     |     |     |   |     |
| 115223 | 8.2  | A0       | -59 4878 | 8.9        | 13 15 35.2 | -60 21 4  | 306.06 | 2.26  | 3008 | A0I  | 8.1  |     |     |     |     |     |     |   |     |
|        |      |          | -61 3575 | 8.4        | 13 17 16.9 | -62 23 10 | 306.06 | 0.22  | 3019 | OB   | 9.0  | 810 | OB  | 239 | OB+ |     |     |   |     |
|        |      |          | -61 3576 | 9.0        | 13 17 20.2 | -62 25 22 | 306.06 | 0.18  |      |      |      |     |     | 240 | OB  |     |     |   |     |
|        |      |          | -61 3579 | 9.3        | 13 17 23.6 | -62 24 28 | 306.07 | 0.19  | 3021 | OB-  | 11.4 |     |     | 241 | OB  |     |     |   |     |
|        |      |          | -61 3581 | 9.2        | 13 17 26.6 | -62 23 46 | 306.08 | 0.20  | 3022 | OB-  | 10.7 |     |     | 242 | OB  |     |     |   |     |
| 115514 |      | G5       | -63 2704 | 9.9        | 13 19 10.1 | -64 5 33  | 306.09 | -1.50 | 3034 | OB-  | 11.3 |     |     |     |     |     |     |   |     |
|        |      |          | -61 3587 | 9.5        | 13 17 45.5 | -62 27 52 | 306.11 | 0.13  | 3027 | OB-  | 10.9 |     |     | 246 | OB  |     |     |   |     |
|        |      |          | -61 3585 | 9.0        | 13 17 39.7 | -62 16 38 | 306.12 | 0.32  | 3024 | F8   | 9.4  |     |     |     |     |     |     |   |     |
|        |      |          | -60 4571 | 9.4        | 13 16 26.0 | -60 38 1  | 306.14 | 1.97  | 3011 | OBh  | 10.3 |     |     | 237 | OB  |     |     |   |     |
|        |      |          | -61 3589 | 9.8        | 13 17 48.9 | -62 13 18 | 306.14 | 0.37  | 3029 | F5Ib | 10.7 |     |     |     |     |     |     |   |     |
| 115533 | 10.5 | B0       | -62 2161 | 9.4        | 13 18 32.1 | -62 55 7  | 306.15 | -0.33 | 3032 | OB-  | 10.8 |     |     |     |     |     |     |   |     |
|        |      |          | -61 3598 | 9.4        | 13 18 15.2 | -62 32 26 | 306.16 | 0.05  | 3031 | OBle | 10.9 |     |     | 247 | OB+ |     |     |   |     |
|        |      |          | -61 3586 | 9.2        | 13 17 42.8 | -61 47 25 | 306.17 | 0.80  | 3026 | OB-  | 9.7  |     |     | 244 | OB  |     |     |   |     |
|        |      |          | -62 3174 | 9.0        | 13 19 15.0 | -63 18 14 | 306.20 | -0.72 |      |      |      |     |     |     |     |     |     |   |     |
|        |      |          |          |            | 13 22 9.7  | -65 48 00 | 306.20 | -3.24 | 3054 | OB-  | 12.9 |     |     |     |     |     |     |   |     |
| 114855 | 8.4  | G0       | -54 5489 | 8.7        | 13 12 54.9 | -54 35 8  | 306.24 | 8.03  | 2988 | F9Ib | 8.8  |     |     |     |     |     |     |   |     |
|        |      |          |          |            | 13 19 55.8 | -63 27 57 | 306.24 | -0.89 | 3039 | OB   | 12.8 |     |     |     |     |     |     |   |     |
|        |      |          |          |            | 13 17 43.5 | -60 37 28 | 306.30 | 1.96  |      |      |      |     |     | 245 | OB+ |     |     |   |     |
| 115704 | 8.5  | B0       | -61 3608 | 8.6        | 13 18 53.5 | -61 54 9  | 306.30 | 0.68  | 3033 | OB   | 8.6  | 812 | OB  | 248 | OB+ |     |     |   |     |
|        |      |          | -61 3612 | 10.1       | 13 19 15.2 | -62 15 4  | 306.30 | 0.32  | 3035 | OB   | 11.4 |     |     |     |     |     |     |   |     |
| 115922 | 9.9  | F5       | -62 3189 | 9.2        | 13 20 21.4 | -63 7 47  | 306.33 | -0.56 | 3042 | F4II | 10.1 |     |     |     |     |     |     |   |     |
|        |      |          | -59 4900 | 9.8        | 13 17 58.2 | -60 29 49 | 306.34 | 2.09  | 3030 | OB-  | 10.3 |     |     |     |     |     |     |   |     |
|        |      |          | -59 4894 | 9.2        | 13 17 24.6 | -59 42 28 | 306.36 | 2.88  |      |      |      | 811 | OB  |     |     |     |     |   |     |
|        |      |          |          |            | 13 20 16.5 | -62 44 36 | 306.37 | -0.18 | 3040 | OB+  | 12.1 |     |     |     |     |     |     |   |     |
|        |      |          | -61 3618 | 9.6        | 13 19 47.3 | -62 5 9   | 306.38 | 0.48  | 3037 | OB-  | 10.7 |     |     |     |     |     |     |   |     |
| 115473 | Oa   |          |          | 13 22 29.3 | -64 30 10  | 306.40    | -1.95  | 3056  | OB-  | 11.6 |      |     |     |     |     |     |     |   |     |
|        |      | -63 2729 | 9.9      | 13 22 1.1  | -63 53 27  | 306.42    | -1.34  | 3053  | OB-  | 11.1 |      |     |     |     |     |     |     |   |     |
|        |      |          |          | 13 21 41.6 | -63 28 12  | 306.44    | -0.92  | 3051  | OB   | 11.4 |      |     |     |     |     |     |     |   |     |
|        |      | -61 3624 | 9.0      | 13 20 17.3 | -61 56 21  | 306.46    | 0.62   | 3041  | OB   | 10.7 |      |     |     |     |     |     |     |   |     |
|        |      |          |          | 13 20 34.5 | -62 13 53  | 306.46    | 0.33   | 3045  | OB   | 11.4 |      |     |     |     |     |     |     |   |     |
|        |      |          |          | 13 21 32.1 | -63 1 23   |           |        |       |      |      |      |     |     |     |     |     |     |   |     |

TABLE 1 (CONTINUED)

| HD/HDE | m    | ST | CPD      | m    | Alpha      | Delta     | l      | b     | LS   | ST   | m    | KS  | ST  | Ly  | ST  | MO | ST | V | B-V |
|--------|------|----|----------|------|------------|-----------|--------|-------|------|------|------|-----|-----|-----|-----|----|----|---|-----|
| 116420 | 9.1  | F5 | -63 2741 | 9.1  | 13 23 46.6 | -64 32 13 | 306.53 | -2.01 | 3061 | F3II | 10.2 |     |     |     |     |    |    |   |     |
|        |      |    | -63 2736 | 9.6  | 13 22 47.7 | -63 34 44 | 306.55 | -1.04 | 3058 | OB+  | 11.0 |     |     | 255 | OB+ |    |    |   |     |
|        |      |    | -62 3225 | 8.6  | 13 22 39.8 | -63 16 5  | 306.57 | -0.73 |      |      |      |     |     | 254 | OB  |    |    |   |     |
|        |      |    | -61 3639 | 9.6  | 13 21 42.4 | -62 20 15 | 306.58 | 0.21  | 3052 | OB+  | 10.9 |     |     | 252 | OB+ |    |    |   |     |
| 115805 | 10.3 | B  | -59 4914 | 9.1  | 13 19 30.3 | -59 53 9  | 306.60 | 2.67  | 3036 | OB   | 10.0 | 813 | OB  |     |     |    |    |   |     |
|        |      |    | -60 4617 | 9.4  | 13 20 48.1 | -61 16 19 | 306.60 | 1.28  |      |      |      |     |     | 250 | OB- |    |    |   |     |
| 116119 | 7.2  | B0 | -61 3638 | 8.4  | 13 21 36.2 | -61 54 29 | 306.62 | 0.63  | 3050 | B6Ib | 8.5  |     |     | 251 | OB  |    |    |   |     |
|        |      |    |          |      | 13 22 56.5 | -63 9 14  | 306.62 | -0.62 | 3060 | OB   | 11.8 |     |     |     |     |    |    |   |     |
| 116849 | 9.4  | B0 | -63 2335 | 10.0 | 13 26 43.5 | -66 10 34 | 306.62 | -3.67 | 3083 | OBce | 9.7  |     |     |     |     |    |    |   |     |
| 115937 | 9.0  | B  | -59 4923 | 9.0  | 13 20 18.2 | -60 24 58 | 306.64 | 2.13  | 3043 | OB-  | 9.7  |     |     | 249 | OB  |    |    |   |     |
|        |      |    |          |      | 13 23 48.7 | -63 26 6  | 306.68 | -0.91 | 3064 | OB+  | 11.8 |     |     |     |     |    |    |   |     |
|        |      |    |          |      | 13 24 47.4 | -64 16 13 | 306.68 | -1.76 | 3070 | OB   | 11.1 |     |     |     |     |    |    |   |     |
|        |      |    |          |      | 13 23 42.8 | -63 16 35 | 306.69 | -0.75 | 3062 | OB   | 11.4 |     |     |     |     |    |    |   |     |
| 116003 | 7.0  | B5 | -59 4926 | 7.7  | 13 20 43.9 | -60 5 25  | 306.73 | 2.45  |      |      |      | 315 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 24 5.3  | -63 16 48 | 306.73 | -0.76 | 3067 | OB+  | 11.8 |     |     |     |     |    |    |   |     |
|        |      |    | -62 3242 | 10.0 | 13 24 4.9  | -63 12 18 | 306.74 | -0.69 | 3066 | OB-  | 12.1 |     |     |     |     |    |    |   |     |
| 116328 | 8.6  | B2 | -60 4643 | 8.5  | 13 22 58.2 | -61 30 23 | 306.83 | 1.01  | 3065 | OB   | 11.3 |     |     | 256 | OB- |    |    |   |     |
|        |      |    | -63 2756 | 9.6  | 13 25 57.0 | -63 39 27 | 306.88 | -1.17 | 3076 | OB   | 12.3 |     |     |     |     |    |    |   |     |
| 117111 | 7.61 | B0 | -64 2428 | 7.9  | 13 28 31.7 | -65 23 53 | 306.91 | -2.93 | 3097 | OB-c | 8.0  | 824 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 25 51.7 | -63 15 13 | 306.93 | -0.76 | 3075 | OB   | 11.4 |     |     |     |     |    |    |   |     |
| 116796 | 8.7  | B2 | -62 3271 | 8.4  | 13 26 11.4 | -63 26 7  | 306.94 | -0.95 | 3079 | OB   | 9.2  | 820 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 25 57.1 | -63 3 39  | 306.97 | -0.57 | 3077 | OB   | 11.8 |     |     |     |     |    |    |   |     |
| 116438 | 7.9  | B2 | -60 4651 | 8.4  | 13 23 40.7 | -60 52 1  | 306.99 | 1.64  | 3063 | OB-  | 8.7  | 817 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 26 21.0 | -63 10 23 | 307.00 | -0.69 | 3081 | OB-  | 12.4 |     |     |     |     |    |    |   |     |
| 116282 | 10.2 | B0 | -59 4951 | 9.0  | 13 22 38.2 | -59 42 21 | 307.01 | 2.80  | 3059 | OBce | 9.9  | 816 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 26 35.1 | -63 14 58 | 307.01 | -0.77 | 3084 | OB-  | 12.1 |     |     |     |     |    |    |   |     |
|        |      |    | -61 3692 | 9.6  | 13 25 8.1  | -61 57 1  | 307.02 | 0.54  | 3072 | OB+r | 10.7 |     |     | 257 | OB+ |    |    |   |     |
|        |      |    |          |      | 13 26 45.5 | -63 20 10 | 307.02 | -0.86 | 3086 | OB-  | 12.5 |     |     |     |     |    |    |   |     |
|        |      |    |          |      | 13 26 29.4 | -63 2 26  | 307.03 | -0.56 | 3082 | OB-  | 11.8 |     |     |     |     |    |    |   |     |
|        |      |    | -60 4658 | 9.4  | 13 24 10.8 | -60 56 31 | 307.04 | 1.55  | 3069 | OB-  | 10.7 |     |     |     |     |    |    |   |     |
| 116781 | 8.8  | Bp | -62 3270 | 8.1  | 13 26 4.3  | -62 32 41 | 307.05 | -0.06 | 3078 | OBce | 7.9  | 819 | OB+ |     |     |    |    |   |     |
|        |      |    | -62 3280 | 9.6  | 13 27 17.2 | -63 28 59 | 307.06 | -1.01 | 3088 | OB-  | 11.0 |     |     | 259 | OB  |    |    |   |     |
| 117024 | 7.4  | B3 | -63 2778 | 7.5  | 13 27 6.1  | -63 46 19 | 307.06 | -1.30 |      |      |      | 821 | OB  |     |     |    |    |   |     |
| 115842 | 6.20 | B0 | -55 5504 | 6.8  | 13 19 33.3 | -55 41 44 | 307.08 | 6.83  | 3038 | OB+  | 6.3  | 814 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 25 32.7 | -61 54 14 | 307.08 | 0.58  | 3073 | OB+  | 12.1 |     |     |     |     |    |    |   |     |
|        |      |    |          |      | 13 42 11.9 | -71 34 58 | 307.08 | -9.23 | IA72 | OB1  | 12.3 |     |     |     |     |    |    |   |     |
|        |      |    |          |      | 13 25 39.7 | -61 56 4  | 307.09 | 0.55  | 3074 | OB+  | 12.1 |     |     |     |     |    |    |   |     |
|        |      |    | -62 3283 | 9.8  | 13 27 29.2 | -63 10 41 | 307.12 | -0.71 | 3090 | OB-  | 12.4 |     |     |     |     |    |    |   |     |
|        |      |    | -62 3290 | 9.9  | 13 27 58.6 | -63 24 18 | 307.14 | -0.95 | 3094 | OB+  | 10.9 |     |     | 260 | OB+ |    |    |   |     |
|        |      |    | -61 3712 | 9.9  | 13 26 35.5 | -62 12 58 | 307.16 | 0.25  | 3085 | OB-  | 11.8 |     |     |     |     |    |    |   |     |
| 117326 | 9.5  | B5 | -63 2789 | 9.0  | 13 29 45.6 | -64 21 17 | 307.20 | -1.92 |      |      |      | 827 | OB  |     |     |    |    |   |     |
|        |      |    | -61 3726 | 9.4  | 13 27 6.8  | -62 17 41 | 307.21 | 0.17  | 3087 | OB-  | 10.9 |     |     | 258 | OB+ |    |    |   |     |
|        |      |    | -60 4678 | 9.1  | 13 26 10.8 | -61 14 50 | 307.24 | 1.22  | 3080 | OB-  | 10.0 |     |     |     |     |    |    |   |     |
|        |      |    | -64 2462 | 9.6  | 13 31 19.0 | -64 55 15 | 307.27 | -2.50 | 3111 | WCh  | 13.4 |     |     |     |     |    |    |   |     |
| 116491 | 8.6  | B8 | -58 4858 | 8.4  | 13 23 54.4 | -58 48 47 | 307.29 | 3.67  | 3068 | OB-  | 9.0  | 818 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 27 24.0 | -61 55 34 | 307.29 | 0.53  | 3089 | OB   | 11.4 |     |     |     |     |    |    |   |     |
| 117000 | 7.2  | G0 | -61 3732 | 8.3  | 13 27 34.6 | -61 59 58 | 307.30 | 0.45  | 3091 | F5I  | 7.8  |     |     |     |     |    |    |   |     |
| 117473 | 9.4  | F0 | -63 2802 | 9.7  | 13 30 54.6 | -64 27 56 | 307.30 | -2.04 | 3108 | OB-  | 11.2 |     |     |     |     |    |    |   |     |
|        |      |    | -62 3301 | 9.4  | 13 29 14.7 | -63 1 41  | 307.34 | 0.60  |      |      |      |     |     | 264 | OB  |    |    |   |     |
|        |      |    | -61 3736 | 9.0  | 13 27 60.0 | -61 56 18 | 307.36 | 0.51  |      |      |      | 822 | OB  | 261 | OB  |    |    |   |     |
|        |      |    | -63 2801 | 9.3  | 13 30 24.4 | -63 45 22 | 307.36 | -1.33 | 3105 | OB   | 11.4 |     |     |     |     |    |    |   |     |
|        |      |    | -53 5566 | 9.6  | 13 20 37.2 | -54 28 53 | 307.37 | 8.02  | 3047 | OB   | 9.9  |     |     |     |     |    |    |   |     |
| 117707 | 9.6  | B0 | -64 2468 | 9.0  | 13 32 28.5 | -65 4 33  | 307.37 | -2.67 | 3118 | OB   | 10.0 | 834 | OB  |     |     |    |    |   |     |
| 117134 | 9.1  | B3 | -61 3741 | 9.0  | 13 28 37.6 | -62 18 42 | 307.38 | 0.12  |      |      |      |     |     | 263 | OB  |    |    |   |     |
|        |      |    |          |      | 13 30 2.0  | -63 19 25 | 307.38 | -0.90 | 3104 | OB+  | 11.4 |     |     |     |     |    |    |   |     |
|        |      |    | -61 3738 | 10.1 | 13 28 8.8  | -61 45 0  | 307.40 | 0.69  |      |      |      |     |     | 262 | OB- |    |    |   |     |
|        |      |    | -61 3742 | 9.6  | 13 28 43.2 | -62 11 27 | 307.41 | 0.24  | 3098 | F0II | 10.0 |     |     |     |     |    |    |   |     |
|        |      |    | -63 2812 | 9.5  | 13 31 58.9 | -64 19 32 | 307.44 | -1.92 | 3113 | OB-  | 11.4 |     |     |     |     |    |    |   |     |
|        |      |    | -60 4697 | 9.4  | 13 27 48.1 | -61 5 58  | 307.46 | 1.34  | 3092 | OB-  | 10.7 |     |     |     |     |    |    |   |     |
|        |      |    | -60 4704 | 10.0 | 13 27 57.9 | -61 5 49  | 307.48 | 1.34  | 3095 | OB+h | 10.7 |     |     |     |     |    |    |   |     |
|        |      |    |          |      | 13 31 36.4 | -63 39 41 | 307.50 | -1.26 | 3112 | OB-  | 11.3 |     |     |     |     |    |    |   |     |
|        |      |    | -60 4708 | 9.0  | 13 28 14.5 | -61 5 21  | 307.51 | 1.34  | 3096 | OB-  | 10.1 | 823 | OB  |     |     |    |    |   |     |
| 117460 | 8.3  | B0 | -62 3326 | 7.7  | 13 30 42.0 | -62 56 25 | 307.52 | -0.53 | 3106 | OB-  | 7.0  | 830 | OB  |     |     |    |    |   |     |
| 117058 | 9.34 | A2 | -60 4700 | 8.6  | 13 27 48.9 | -60 36 17 | 307.53 | 1.83  | 3093 | A5   | 9.4  |     |     |     |     |    |    |   |     |
| 117297 |      | O3 | -61 3753 | 9.6  | 13 29 32.3 | -61 58 41 | 307.53 | 0.44  | 3101 | WC   | 10.9 |     |     |     |     |    |    |   |     |
|        |      |    |          |      | 13 32 22.1 | -64 1 30  | 307.53 | -1.63 | 3117 | WCh  | 13.5 |     |     |     |     |    |    |   |     |
|        |      |    | -62 3334 | 10.1 | 13 30 54.3 | -62 55 38 | 307.54 | -0.52 | 3109 | OB-  | 12.3 |     |     |     |     |    |    |   |     |
|        |      |    | -61 3758 | 10.1 | 13 29 48.6 | -61 56 13 | 307.57 | 0.47  | 3102 | OB-  | 11.1 |     |     |     |     |    |    |   |     |
|        |      |    | -60 4718 | 9.0  | 13 29 2.3  | -61 15 13 | 307.58 | 1.16  | 3100 | OB-  | 9.9  | 826 | OB  |     |     |    |    |   |     |
| 117357 | 9.1  | B0 | -61 3760 | 8.9  | 13 29 55.0 | -61 37 46 | 307.63 | 0.78  | 3103 | OB   | 9.7  | 828 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 50 16.4 | -71 51 25 | 307.64 | -9.63 | IA73 | B9II | 12.6 |     |     |     |     |    |    |   |     |
|        |      |    | -61 3765 | 9.8  | 13 30 45.5 | -61 56 19 | 307.68 | 0.46  | 3107 | OB-  | 10.7 |     |     |     |     |    |    |   |     |
|        |      |    | -60 4731 | 9.4  | 13 29 38.1 | -60 45 59 | 307.73 | 1.63  |      |      |      |     |     | 265 | OB  |    |    |   |     |
|        |      |    |          |      | 13 36 15.6 | -65 6 21  | 307.76 | -2.77 | 3130 | OB   | 11.8 |     |     |     |     |    |    |   |     |
| 117856 | 7.5  | B0 | -62 3374 | 7.6  | 13 33 21.0 | -63 13 57 | 307.77 | -0.87 | 3120 | OB-  | 7.5  | 836 | OB  |     |     |    |    |   |     |
|        |      |    |          |      | 13 36 18.7 | -65 4 33  | 307.77 | -2.74 | 3131 | OB   | 11.6 |     |     | 271 | OB+ |    |    |   |     |
|        |      |    | -67 2347 | 9.4  | 13 41 15.2 | -67 43 5  | 307.79 | -5.43 |      |      |      |     |     | 277 | OB+ |    |    |   |     |
| 117688 |      | Oc | -61 3791 | 9.6  | 13 32 8.7  | -62 12 50 | 307.80 | 0.16  | 3114 | WCh  | 11.6 |     |     |     |     |    |    |   |     |
|        |      |    | -59 5011 | 9.4  | 13 29 52.8 | -60 22 16 | 307.81 | 2.01  |      |      |      | 829 | OB  |     |     |    |    |   |     |
| 117704 | 8.7  | B2 | -61 3793 | 8.6  | 13 32 15.9 | -62 12 55 | 307.81 | 0.15  | 3116 | OB-  | 9.2  | 833 | OB  | 268 | OB- |    |    |   |     |
|        |      |    | -64 2489 | 9.7  | 13 36 18.4 | -64 38 54 | 307.84 | -2.32 | 3132 | OB-  | 10.0 |     |     |     |     |    |    |   |     |
|        |      |    | -70 1686 | 9.4  | 13 50 37.3 | -71 9 28  | 307.84 | -8.96 | IA74 | B7Ib | 12.9 |     |     |     |     |    |    |   |     |
| 117797 |      | Oe | -61 3804 | 9.4  | 13 32 50.8 | -62 18 53 | 307.86 | 0.04  | 3119 | OB   | 9.5  | 835 | OB  |     |     |    |    |   |     |
| 117490 | 8.1  | B  | -60 4744 | 8.4  | 13 30 48.6 | -60 42 43 | 307.88 | 1.67  | 3110 | OBce | 8.7  |     |     |     |     |    |    |   |     |

TABLE 1 (CONTINUED)

| HD/HDE | m   | ST | CPD      | m   | 1980.0     |           | l      | b     | LS   | ST   | m    | KS  | ST | Ly  | ST | MO | ST | V | B-V |
|--------|-----|----|----------|-----|------------|-----------|--------|-------|------|------|------|-----|----|-----|----|----|----|---|-----|
|        |     |    |          |     | Alpha      | Delta     |        |       |      |      |      |     |    |     |    |    |    |   |     |
| 119078 |     | Oa | -66 2299 | 9.0 | 13 41 46.8 | -67 18 1  | 307.89 | -5.03 | 3149 | WCh  | 11.6 |     |    |     |    |    |    |   |     |
|        |     |    |          |     | 13 34 16.1 | -62 59 14 | 307.91 | -0.65 | 3124 | OB-  | 11.4 |     |    |     |    |    |    |   |     |
| 117687 | 9.0 | B  | -60 4759 | 8.9 | 13 32 9.4  | -61 20 30 | 307.94 | 1.02  | 3115 | OB-  | 9.3  | 832 | OB | 267 | OB |    |    |   |     |
| 118198 | 8.5 | B2 | -63 2856 | 8.3 | 13 35 36.4 | -63 32 38 | 307.96 | -1.22 | 3127 | OB-c | 9.1  | 840 | OB |     |    |    |    |   |     |
|        |     |    |          |     | 13 51 6.9  | -70 47 36 | 307.96 | -8.62 | 1A53 | AlII | 12.9 |     |    |     |    |    |    |   |     |
|        |     |    |          |     | 13 34 6.9  | -62 21 45 | 308.00 | -0.03 | 3123 | OB   | 11.4 |     |    |     |    |    |    |   |     |

Notes to Table 1:

| Column    | Heading | Explanation                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1         | HD/HDE  | The Henry Draper number or from its extensions.                                                                                                                                                                                                                                                                                                                                                 |
| 2         | m       | The HD photovisual magnitude.                                                                                                                                                                                                                                                                                                                                                                   |
| 3         | ST      | The Harvard spectral type.                                                                                                                                                                                                                                                                                                                                                                      |
| 4         | CPD     | The Cape Photographic Durchmusterung zone and number.                                                                                                                                                                                                                                                                                                                                           |
| 5         | m       | The CPD Photographic Magnitude.                                                                                                                                                                                                                                                                                                                                                                 |
| 6, 7, 8   | Alpha   | The right ascension (1980) in hours, minutes and seconds.                                                                                                                                                                                                                                                                                                                                       |
| 9, 10, 11 | Delta   | The declination (1980) in degrees, minutes and seconds. Both coordinates were taken from references 23, 50 or Muzzio and Orsatti (1977) (to a tenth of second of time in RA and to a second of arc in declination). If the star is not in these references then from references 31 or 32 (to a tenth of minute of time in RA only). In a few cases the positions given by Ref. 1 were employed. |
| 12, 13    | l, b    | Galactic longitude and latitude. They were taken from the same sources of the equatorial coordinates. When the source was Ref. 1 they were computed from this data.                                                                                                                                                                                                                             |
| 14        | LS      | The Luminous Stars for the Southern Hemisphere (Ref. 23) number (four figure). In a few cases stars from table Ia in Ref. 50 were included here. They are coded IA followed by a two figure number in the table.                                                                                                                                                                                |
| 15        | ST      | The spectral classification either from Ref. 23 or 50. (The only superposition is on star 1A44=2647.) Our listing only takes the first four characters of the spectral class excluding parenthesis. When the spectral classification is a MK type it is listed in full in Table 2.                                                                                                              |
| 16        | m       | The photographic magnitude in Ref. 23 or 50.                                                                                                                                                                                                                                                                                                                                                    |
| 17        | KS      | The Heidelberg (Klare and Szeidl, Ref. 32) number.                                                                                                                                                                                                                                                                                                                                              |
| 18        | ST      | The Heidelberg (Ref. 32) spectral classification.                                                                                                                                                                                                                                                                                                                                               |
| 19        | Ly      | The Lyngå (Ref. 31) number.                                                                                                                                                                                                                                                                                                                                                                     |
| 20        | ST      | The Lyngå (Ref. 31) spectral classification.                                                                                                                                                                                                                                                                                                                                                    |
| 21        | MO      | The Muzzio and Orsatti (1977) number.                                                                                                                                                                                                                                                                                                                                                           |
| 22        | ST      | The spectral classification from Muzzio and Orsatti (1977).                                                                                                                                                                                                                                                                                                                                     |
| 23        | V       | The V photographic magnitude from Muzzio and Orsatti (1977).                                                                                                                                                                                                                                                                                                                                    |
| 24        | B-V     | The B-V photographic color index from Muzzio and Orsatti (1977).                                                                                                                                                                                                                                                                                                                                |

TABLE 2  
THE EXISTING ASTROPHYSICAL DATA FOR STARS IN TABLE 1

| STAR    | SPECTRAL TYPE | Ref | RV    | Ref  | V     | B-V       | U-B   | Ref | P(%) | PA    | Ref | BETA  | Ref |
|---------|---------------|-----|-------|------|-------|-----------|-------|-----|------|-------|-----|-------|-----|
| MO 192  |               |     |       |      | 13.46 | 0.83      | 0.04  | 87  |      |       |     |       |     |
| MO 195  |               |     |       |      | 12.56 | 0.86-0.20 |       | 87  |      |       |     |       |     |
| MO 201  |               |     |       |      | 13.53 | 1.06      | 0.21  | 87  |      |       |     |       |     |
| MO 203  |               |     |       |      | 12.36 | 0.65-0.13 |       | 87  |      |       |     |       |     |
| MO 212  |               |     |       |      | 13.04 | 0.97      | 0.12  | 87  |      |       |     |       |     |
| MO 221  |               |     |       |      | 12.73 | 1.53      | 0.44: | 87  |      |       |     |       |     |
| MO 225  |               |     |       |      | 13.53 | 0.79-0.03 |       | 87  |      |       |     |       |     |
| MO 227  |               |     |       |      | 12.37 | 1.31      | 0.36: | 87  |      |       |     |       |     |
| MO 238  |               |     |       |      | 13.79 | 1.03      | 0.12  | 87  |      |       |     |       |     |
| MO 242  |               |     |       |      | 11.96 | 1.40      | 0.25  | 87  |      |       |     |       |     |
| MO 243  |               |     |       |      | 11.58 | 1.66      | 0.49  | 87  |      |       |     |       |     |
| MO 244  |               |     |       |      | 13.37 | 1.02-0.06 |       | 87  |      |       |     |       |     |
| Ly 152  |               |     |       |      | 12.19 | 0.87-0.12 |       | 29  |      |       |     |       |     |
| LS IA45 | A5 Ib         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA46 | A3 Ib         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA48 | A0 II         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA49 | B9 II         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA50 | A0 Ib         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA51 | A0 II         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA53 | A1 II         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA66 | B7 II         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA67 | A1 Iab        | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA71 | A0 II         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS IA73 | B9 II         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| LS 2647 |               |     |       |      |       |           |       |     | 2.52 | 102.9 | 34  |       |     |
| LS 2686 | B7 Ia         | 23  |       |      |       |           |       |     |      |       |     |       |     |
| LS 2868 |               |     |       |      | 11.49 | 0.57-0.27 |       | 87  |      |       |     |       |     |
| LS 2873 |               |     |       |      | 9.04  | 0.32-0.54 |       | 87  |      |       |     | 2.608 | 87  |
| LS 2878 |               |     |       |      | 11.31 | 1.00      | 0.19  | 87  |      |       |     |       |     |
| LS 2899 |               |     |       |      | 10.65 | 0.92-0.20 |       | 87  |      |       |     |       |     |
| LS 2916 |               |     |       |      | 9.72  | 0.32-0.46 |       | 87  |      |       |     | 2.519 | 87  |
| LS 2926 |               |     |       |      | 10.27 | 0.63-0.38 |       | 87  |      |       |     | 2.603 | 87  |
| LS 2927 |               |     |       |      | 9.48  | 0.61-0.46 |       | 87  |      |       |     | 2.578 | 87  |
| LS 2931 |               |     |       |      | 9.16  | 0.54-0.42 |       | 87  |      |       |     | 2.586 | 87  |
| LS 2937 |               |     |       |      | 9.84  | 0.30-0.61 |       | 87  |      |       |     | 2.606 | 87  |
| LS 2944 |               |     |       |      | 9.87  | 0.32-0.60 |       | 87  |      |       |     | 2.591 | 87  |
| LS 2945 |               |     |       |      | 11.72 | 0.52-0.41 |       | 87  |      |       |     |       |     |
| LS 2946 |               |     |       |      | 8.58  | 0.56-0.46 |       | 87  |      |       |     | 2.556 | 87  |
| LS 3006 |               |     |       |      | 11.40 | 0.65      | 0.11  | 86  |      |       |     |       |     |
| LS 3040 |               |     |       |      | 11.88 | 0.89-0.29 |       | 86  |      |       |     |       |     |
| LS 3045 |               |     |       |      | 11.32 | 0.29-0.54 |       | 86  |      |       |     |       |     |
| LS 3062 |               |     |       |      | 11.65 | 0.63-0.45 |       | 86  |      |       |     | 2.576 | 86  |
| LS 3064 |               |     | -16.2 | 86   | 11.72 | 0.76-0.34 |       | 86  |      |       |     |       |     |
| LS 3067 |               |     |       |      | 12.15 | 0.61-0.31 |       | 86  |      |       |     |       |     |
| LS 3073 |               |     |       |      | 11.85 | 1.02-0.13 |       | 86  |      |       |     |       |     |
| LS 3074 |               |     |       |      | 11.73 | 1.17-0.10 |       | 86  |      |       |     |       |     |
| LS 3089 |               |     |       |      | 11.57 | 0.64-0.30 |       | 86  |      |       |     |       |     |
| 108002  | B1 Iab        | 2   | - 2   | 3    | 6.93  | 0.11-0.65 |       | 2   | 0.83 | 96.2  | 34  |       |     |
| 108002  | B1 Ib         | 3   |       |      | 6.93  | 0.13      |       | 4   |      |       |     |       |     |
| 108002  | B2 Ia-ab      | 33  |       |      | 6.93  | 0.12-0.76 |       | 63  |      |       |     |       |     |
| 108002  | B1.5Ib        | 65  |       |      | 6.94  | 0.12-0.74 |       | 86  |      |       |     |       |     |
| 108639  | B0 III:p?     | 5   |       | V 45 | 7.80  | 0.07      |       | 11  | 1.87 | 94.4  | 34  | 2.572 | 53  |
| 108639  | B0 III:p?     | 6   |       |      | 7.81  | 0.10-0.83 |       | 20  |      |       |     |       |     |
| 108639  | B1 III        | 33  |       |      | 7.81  | 0.08-0.80 |       | 53  |      |       |     |       |     |
| 108639  | B0            | 56  |       |      | 7.81  | 0.07      |       | 56  |      |       |     |       |     |
| 108639  | B0 III        | 65  |       |      |       |           |       |     |      |       |     |       |     |
| 108639  | B0.2III       | 74  |       |      |       |           |       |     |      |       |     |       |     |
| 108434  | B3 V          | 22  |       |      | 8.94  | 0.12-0.47 |       | 22  | 1.47 | 102.6 | 34  | 2.619 | 53  |
| 108434  | B2/3II-III    | 33  |       |      | 8.93  | 0.20-0.50 |       | 53  |      |       |     |       |     |
| 108434  | B2 IV-Vn      | 65  |       |      |       |           |       |     |      |       |     |       |     |
| 108485  | A2 II         | 23  |       |      |       |           |       |     |      |       |     |       |     |
| 108485  | A2 II         | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 108659  | B5 Ib         | 2   | - 3   | 2    | 7.32  | 0.32-0.32 |       | 2   |      |       |     |       |     |
| 108659  | B5 Iab-Ib     | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 108719  | B1/3          | 33  |       |      | 8.41  | 0.21-0.63 |       | 77  |      |       |     | 2.565 | 77  |
| 108773  | F3 II         | 23  |       |      | 6.67  | 0.45      |       | 11  |      |       |     |       |     |
| 108773  | F0 Ib         | 33  |       |      | 6.68  | 0.45      | 0.40  | 20  |      |       |     |       |     |
| 108773  | F0            | 56  |       |      | 6.67  | 0.43      |       | 56  |      |       |     |       |     |
| 108773  |               |     |       |      |       |           | 0.36  | 61  |      |       |     |       |     |
| 109150  | K0 III-IV     | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 109164  | B2 II         | 33  |       |      | 7.83  | 0.05      |       | 11  |      |       |     |       |     |
| 109164  | B5            | 56  |       |      | 7.92  | 0.04      |       | 56  |      |       |     |       |     |

TABLE 2 (CONTINUED)

| STAR   | SPECTRAL TYPE | Ref | RV    | Ref  | V               | B-V | U-B | Ref | P(%) | PA    | Ref | BETA  | Ref |
|--------|---------------|-----|-------|------|-----------------|-----|-----|-----|------|-------|-----|-------|-----|
| 109314 | B5            | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 109399 | B0.5Ib        | 2   | -45   | 2    | 7.67-0.01-0.74  |     |     | 2   | 2.19 | 111.0 | 34  | 2.570 | 53  |
| 109399 | B1 Ib         | 5   | -50   | 6    | 7.67 0.04-0.80  |     |     | 14  |      |       |     | 2.568 | 78  |
| 109399 | B0.5V:        | 6   | -59.0 | 68   | 7.61 0.00-0.86  |     |     | 53  |      |       |     |       |     |
| 109399 | B0.5III       | 33  | -50   | 83   | 7.62 0.01-0.86  |     |     | 76  |      |       |     |       |     |
| 109399 | B0.7II        | 65  |       |      |                 |     |     |     |      |       |     |       |     |
| 109399 | B0.5Ib        | 68  |       |      |                 |     |     |     |      |       |     |       |     |
| 109399 | B0.5III       | 76  |       |      |                 |     |     |     |      |       |     |       |     |
| 109505 | B2 II         | 33  |       |      | 8.01 0.24-0.67  |     |     | 53  | 1.78 | 106.4 | 34  | 2.585 | 53  |
| 109505 | B1 II-III     | 65  |       |      |                 |     |     |     |      |       |     |       |     |
| 109867 | B1 Ia         | 7   | -15.5 | 2    | 6.24 0.06-0.87  |     |     | 11  | 0.50 | 105.7 | 34  | 2.556 | 53  |
| 109867 | B0.5Ik        | 10  | -16   | 10   | 6.28 0.05-0.83  |     |     | 53  | 0.84 | 109.4 | 36  | 2.542 | 79  |
| 109867 | B0.5/IIab     | 33  | -16.0 | 66   | 6.24 0.05       |     |     | 56  |      |       |     |       |     |
| 109867 | B2            | 56  |       |      | 6.24 0.06       |     |     | 66  |      |       |     |       |     |
| 109867 | B1 Ib         | 65  |       |      | 6.28 0.05-0.83  |     |     | 86  |      |       |     |       |     |
| 109867 | B0.7Ib        | 74  |       |      |                 |     |     |     |      |       |     |       |     |
| 109885 | B2 III        | 33  | -29.0 | 83   | 9.03 0.13-0.67  |     |     | 53  | 3.62 | 109.3 | 34  | 2.623 | 53  |
| 109885 | B2 III        | 65  |       |      | 9.00 0.15-0.68  |     |     | 76  |      |       |     | 2.616 | 78  |
| 109885 | B3 V          | 76  |       |      |                 |     |     |     |      |       |     |       |     |
| 109937 | B2/3III       | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 109978 | O9.5III       | 2   | -7    | 6    | 8.84 0.41-0.54  |     |     | 2   | 2.34 | 105.5 | 34  | 2.575 | 53  |
| 109978 | O9 IV         | 5   |       |      | 8.81 0.41-0.61  |     |     | 53  |      |       |     |       |     |
| 109978 | O9 III        | 6   |       |      | 8.80 0.42-0.64  |     |     | 86  |      |       |     |       |     |
| 109978 | O9 III        | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 109978 | O8 III        | 65  |       |      |                 |     |     |     |      |       |     |       |     |
| 110040 | K5            | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110360 | O8            | 2   | -19   | V 6  | 9.33 0.18-0.800 |     |     | 1   | 2.31 | 91.3  | 34  | 2.595 | 53  |
| 110360 | O7            | 5   |       |      | 9.30 0.19-0.68  |     |     | 2   | 1.4  | 90    | 35  |       |     |
| 110360 | O7.5          | 6   |       |      | 9.32 0.17-0.80  |     |     | 53  |      |       |     |       |     |
| 110360 | O7/8          | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110360 | O6.5V         | 65  |       |      |                 |     |     |     |      |       |     |       |     |
| 110373 | B7/9          | 33  |       |      | 10.42 0.17-0.44 |     |     | 29  |      |       |     |       |     |
| 110432 | B1 p          | 49  |       | V 49 | 5.29 0.25 1.20c |     |     | 38  | 1.76 | 81    | 41  | 2.371 | 81  |
| 110432 | B2: pe        | 7   | 22.0  | 46   | 5.41 0.26-0.77  |     |     | 14  | 2.0  | 76    | 35  | 2.39: | 79  |
| 110432 | B ne          | 73  | 9.0   | 73   | 5.30 0.27-0.82  |     |     | 59  |      |       |     |       |     |
| 110432 | O/B e         | 33  | 44.0  | 66   | 5.29 0.25       |     |     | 66  |      |       |     |       |     |
| 110498 | B0.5III       | 16  |       |      | 9.66 0.49 1.34c |     |     | 11  | 2.65 | 85.4  | 34  | 2.611 | 53  |
| 110498 | B0.5III       | 33  |       |      | 9.66 0.49 1.35c |     |     | 16  |      |       |     |       |     |
| 110498 |               |     |       |      | 9.67 0.49-0.48  |     |     | 53  |      |       |     |       |     |
| 110498 |               |     |       |      | 9.66 0.47 1.35c |     |     | 57  |      |       |     |       |     |
| 110532 | K0/1III       | 33  |       |      | 6.38 1.08       |     |     | 11  |      |       |     |       |     |
| 110532 | K0            | 56  |       |      | 6.37 1.07 2.11c |     |     | 38  |      |       |     |       |     |
| 110532 |               |     |       |      | 6.40 1.10       |     |     | 56  |      |       |     |       |     |
| 110639 | B1 Ib         | 2   | -5.7  | 2    | 8.43 0.68-0.30  |     |     | 1   | 3.5  | 89    | 35  |       |     |
| 110639 | B1 Ib-II      | 5   |       |      | 8.46 0.69-0.25  |     |     | 2   |      |       |     |       |     |
| 110639 | B1 Ib-II      | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110660 | B1 V          | 5   | -26   | 6    | 9.94 0.53-0.30  |     |     | 1   | 2.9  | 72    | 35  |       |     |
| 110660 | B2 V:         | 6   |       |      | 9.89 0.56-0.35  |     |     | 86  |      |       |     |       |     |
| 110660 | B3/5          | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110785 | B2 V          | 6   | -26   | 6    | 9.96 0.06-0.76  |     |     | 86  |      |       |     |       |     |
| 110785 | B2 V          | 16  |       |      |                 |     |     |     |      |       |     |       |     |
| 110785 | B3/5II        | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110786 | F0 Ia         | 23  |       |      | 7.68 1.25 0.49  |     |     | 22  |      |       |     |       |     |
| 110786 | A3/4Ib        | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110863 | B1 Vp         | 5   | -31   | : 6  | 8.99 0.33-0.56  |     |     | 1   | 2.45 | 92.6  | 34  | 2.548 | 53  |
| 110863 | B2 V          | 6   |       |      | 9.03 0.30-0.51  |     |     | 53  | 2.9  | 93    | 35  |       |     |
| 110863 | B2 V          | 16  |       |      |                 |     |     |     |      |       |     |       |     |
| 110863 | B2 II-III     | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110878 | F0 Ia         | 23  |       |      |                 |     |     |     |      |       |     |       |     |
| 110878 | A8/9III       | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110972 | B3            | 33  |       |      |                 |     |     |     |      |       |     |       |     |
| 110984 | B0 IV         | 5   |       |      | 8.98 0.48-0.44  |     |     | 1   | 5.23 | 90.4  | 34  | 2.590 | 53  |
| 110984 | B1 II/III     | 33  |       |      | 8.94 0.47-0.48  |     |     | 53  | 5.3  | 88    | 35  |       |     |
| 110984 |               |     |       |      |                 |     |     |     | 5.46 | 89.9  | 85  |       |     |
| 111003 | B3/5II-III    | 33  |       |      | 9.85 0.36-0.46  |     |     | 53  | 2.24 | 75.6  | 34  | 2.613 | 53  |
| 111077 | (B) e         | 33  |       |      | 10.35 0.27-0.63 |     |     | 53  | 3.31 | 60.5  | 34  | 2.391 | 53  |
| 111124 | B1/3(I)       | 33  |       |      | 9.07 0.71-0.35  |     |     | 1   | 0.52 | 34.6  | 34  | 2.487 | 53  |
| 111124 |               |     |       |      | 9.30 0.64-0.41  |     |     | 17  | 1.2  | 22    | 35  |       |     |
| 111124 |               |     |       |      | 9.32 0.72-0.38  |     |     | 27  |      |       |     |       |     |
| 111124 |               |     |       |      | 9.40 0.70-0.38  |     |     | 28  |      |       |     |       |     |
| 111124 |               |     |       |      | 9.37 0.71-0.35  |     |     | 53  |      |       |     |       |     |
| 111193 | O9            | 22  |       |      | 7.95 0.22-0.68  |     |     | 1   | 3.39 | 82.0  | 34  | 2.576 | 53  |
| 111193 | A2/3IV        | 33  |       |      | 7.96 0.22-0.63  |     |     | 22  | 3.4  | 80    | 35  |       |     |
| 111193 |               |     |       |      | 7.98 0.22-0.71  |     |     | 53  |      |       |     |       |     |

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TABLE 2 (CONTINUED)

| STAR   | SPECTRAL TYPE | Ref | RV    | Ref | V     | B-V        | U-B | Ref | P(%) | PA    | Ref | BETA  | Ref |
|--------|---------------|-----|-------|-----|-------|------------|-----|-----|------|-------|-----|-------|-----|
| 111290 | B1 Ib-II      | 33  | - 4.0 | 83  | 7.77  | 0.00-0.79  |     | 53  | 1.58 | 106.5 | 34  | 2.586 | 53  |
| 111290 | B1 III        | 76  |       |     | 7.76  | 0.01-0.79  |     | 76  |      |       |     | 2.595 | 78  |
| 111343 | A2 II         | 23  |       |     |       |            |     |     |      |       |     |       |     |
| 111343 | A2 III        | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 111377 | B2/5II-III    | 33  |       |     | 9.55  | 0.13-0.69  |     | 53  | 2.37 | 93.2  | 34  | 2.602 | 53  |
| 111463 | A5 II         | 23  |       |     | 6.78  | 0.37 0.04  |     | 14  |      |       |     |       |     |
| 111463 | A3 II         | 33  |       |     | 6.66  | 0.35 0.24  |     | 22  |      |       |     |       |     |
| 111463 |               |     |       |     | 6.72  | 0.35       |     | 62  |      |       |     |       |     |
| 111505 | B2/3III       | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 111558 | B8 Ia         | 5   | -30   | 3   | 7.31  | 0.14-0.39  |     | 2   | 1.10 | 92.5  | 34  | 2.579 | 53  |
| 111558 | B7 Ib         | 33  | -28   | 42  | 7.28  | 0.12       |     | 18  |      |       |     |       |     |
| 111558 | B8 Iab        | 37  | -34.7 | 68  | 7.25  | 0.11-0.47  |     | 53  |      |       |     |       |     |
| 111558 | B7 Ia         | 55  |       |     | 7.25  | 0.13-0.46  |     | 63  |      |       |     |       |     |
| 111558 | B8 Ia         | 68  |       |     | 7.24  | 0.12-0.46  |     | 86  |      |       |     |       |     |
| 111558 | B8 Ia         | 72  |       |     |       |            |     |     |      |       |     |       |     |
| 111578 | B2/3II        | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 111579 | B2 Ib-II      | 33  |       |     | 9.10  | 0.66-0.29  |     | 1   | 6.02 | 100.6 | 34  | 2.577 | 53  |
| 111579 |               |     |       |     | 9.11  | 0.66-0.32  |     | 53  | 5.5  | 103   | 35  |       |     |
| 111579 |               |     |       |     |       |            |     |     | 6.25 | 102.9 | 85  |       |     |
| 111613 | A2 Iab        | 7   | -22.0 | 43  | 5.73  | 0.37       |     | 7   | 2.92 | 81.4  | 36  |       |     |
| 111613 | A1 Ia         | 12  | -20   | 47  | 5.72  | 0.39 1.44c |     | 11  | 2.96 | 81.3  | 41  |       |     |
| 111613 | A1 Ia         | 13  | -20   | 48  | 5.76  | 0.30-0.11  |     | 13  | 2.92 | 82.1  | 85  |       |     |
| 111613 | A5 Iab        | 23  | -20.0 | 84  | 5.74  | 0.45-0.06  |     | 14  |      |       |     |       |     |
| 111613 | B9.5Iab       | 33  |       |     | 5.76  | 0.40       |     | 18  |      |       |     |       |     |
| 111613 | A1 Ia         | 37  |       |     | 5.75  | 0.32       |     | 19  |      |       |     |       |     |
| 111613 | A2 p          | 56  |       |     | 5.71  | 0.37       |     | 56  |      |       |     |       |     |
| 111613 |               |     |       |     | 5.73  | 0.39-0.06  |     | 58  |      |       |     |       |     |
| 111885 | B7 II         | 23  |       |     |       |            |     |     |      |       |     |       |     |
| 111885 | B2 Ib-II      | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 111886 | B3 III-V      | 33  |       |     | 9.22  | 0.07-0.64  |     | 53  | 2.26 | 84.3  | 34  | 2.637 | 53  |
| 111886 | B1.5Vn        | 65  |       |     |       |            |     |     |      |       |     |       |     |
| 111904 | B9 Ia         | 7   | -20.4 | 15  | 5.76  | 0.32       |     | 7   | 2.75 | 73.9  | 36  |       |     |
| 111904 | B9 Ib         | 9   | -15.0 | 43  | 5.75  | 0.35 1.39c |     | 11  | 2.87 | 72.8  | 41  |       |     |
| 111904 | B9 Ia         | 12  | -23   | 45  | 5.76  | 0.24-0.40  |     | 13  |      |       |     |       |     |
| 111904 | B9 Ia         | 13  | -16   | 48  | 5.80  | 0.39-0.30  |     | 14  |      |       |     |       |     |
| 111904 | B9 Ia-Iab     | 15  |       |     | 5.77  | 0.34       |     | 18  |      |       |     |       |     |
| 111904 | B7 II         | 23  |       |     | 5.76  | 0.24-0.40  |     | 67  |      |       |     |       |     |
| 111904 | B9 Iab        | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 111904 | B9 Ia         | 37  |       |     |       |            |     |     |      |       |     |       |     |
| 111904 | B9 Iab        | 39  |       |     |       |            |     |     |      |       |     |       |     |
| 111904 | B9 Ia         | 55  |       |     |       |            |     |     |      |       |     |       |     |
| 111904 | B8 p          | 67  |       |     |       |            |     |     |      |       |     |       |     |
| 111916 | B3            | 33  |       |     | 9.30  | 0.28-0.63  |     | 53  | 2.95 | 80.9  | 34  | 2.599 | 53  |
| 111916 | B1 II         | 65  |       |     |       |            |     |     |      |       |     |       |     |
| 111934 | B2 Ib:        | 15  | -17   | 45  | 6.90  | 0.24-0.66  |     | 63  |      |       |     |       |     |
| 111934 | B1.5Ib        | 39  | -20   | 48  |       |            |     |     |      |       |     |       |     |
| 111952 | B3 Vn         | 6   | -23.0 | 6   | 9.46  | 0.06-0.67  |     | 1   |      |       |     |       |     |
| 111952 | B2/5          | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 111973 | B5 Ia         | 7   | -14.2 | 15  | 5.93  | 0.23       |     | 7   | 2.63 | 74.6  | 41  | 2.559 | 79  |
| 111973 | B3 Iab        | 12  | -10   | 45  | 5.90  | 0.17-0.63  |     | 13  |      |       |     |       |     |
| 111973 | B3 Iab        | 13  | - 1.3 | 46  | 6.00  | 0.27-0.54  |     | 14  |      |       |     |       |     |
| 111973 | B3 Iab        | 15  | -12   | 48  | 5.93  | 0.25       |     | 18  |      |       |     |       |     |
| 111973 | B3 Ia         | 19  |       |     | 5.94  | 0.22       |     | 19  |      |       |     |       |     |
| 111973 | B5 II-Ib      | 24  |       |     | 5.93  | 0.23       |     | 66  |      |       |     |       |     |
| 111973 | B2/3Ia        | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 111973 | B5 Ia         | 39  |       |     |       |            |     |     |      |       |     |       |     |
| 111990 | B2 Ik         | 10  | - 6   | 10  | 6.78  | 0.26 1.29c |     | 11  | 2.87 | 73.3  | 41  |       |     |
| 111990 | B3 Ib         | 15  | -29.2 | 15  |       |            |     |     |      |       |     |       |     |
| 111990 | B1/2Ib        | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 111990 | B2 Ib         | 39  |       |     |       |            |     |     |      |       |     |       |     |
| 112026 | B0/1IV        | 33  |       |     | 8.68  | 0.02-0.78  |     | 1   | 2.10 | 82.7  | 34  | 2.602 | 53  |
| 112026 | B0.5III       | 65  |       |     | 8.70  | 0.02-0.81  |     | 53  |      |       |     |       |     |
| 112027 | B1 Ib         | 33  |       |     | 9.12  | 0.58-0.27  |     | 1   | 2.01 | 53.3  | 34  | 2.599 | 53  |
| 112027 | B1 II         | 65  |       |     | 9.24  | 0.61-0.28  |     | 53  | 2.4  | 53    | 35  |       |     |
| 112147 | B0: IV:pe     | 5   | -29   | : 6 | 9.14  | 0.26-0.82  |     | 1   |      |       |     |       |     |
| 112147 | B3 pe         | 6   |       |     |       |            |     |     |      |       |     |       |     |
| 112147 | B3 pe         | 16  |       |     |       |            |     |     |      |       |     |       |     |
| 112147 | B e           | 33  |       |     |       |            |     |     |      |       |     |       |     |
| 112168 | B9 V          | 33  |       |     | 9.16  | 0.12-0.21  |     | 53  | 2.18 | 72.0  | 34  | 2.746 | 53  |
| 112168 | B8 Vn         | 65  |       |     |       |            |     |     |      |       |     |       |     |
| 112181 | B1 Vn         | 16  |       |     | 8.79  | 0.11 1.22c |     | 16  | 2.06 | 82.4  | 34  | 2.597 | 53  |
| 112181 | B2/3II-III    | 33  |       |     | 8.81  | 0.09-0.71  |     | 53  |      |       |     |       |     |
| 112181 | B1 IIIn       | 65  |       |     |       |            |     |     |      |       |     |       |     |
| 112202 | B3/5V         | 33  |       |     | 10.03 | 0.14-0.51  |     | 53  | 2.78 | 97.2  | 34  | 2.644 | 53  |

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TABLE 2 (CONTINUED)

| STAR   | SPECTRAL TYPE | Ref | RV     | Ref  | V    | B-V        | U-B | Ref  | P(%)  | PA | Ref   | BETA Ref |
|--------|---------------|-----|--------|------|------|------------|-----|------|-------|----|-------|----------|
| 112202 | B2.5V         | 65  |        |      |      |            |     |      |       |    |       |          |
| 112272 | B0.5Ia        | 5   | 38     | 6    | 7.37 | 0.79-0.30  | 1   | 0.31 | 40.9  | 34 | 2.547 | 53       |
| 112272 | B0.5I         | 6   |        |      | 7.52 | 0.84-0.26  | 2   | 1.1  | 55    | 35 |       |          |
| 112272 | B0.5Ia        | 8   |        |      | 7.35 | 0.80       | 4   |      |       |    |       |          |
| 112272 | B1 Ia-ab      | 33  |        |      | 7.36 | 0.79-0.28  | 53  |      |       |    |       |          |
| 112272 | B0.5Ia        | 65  |        |      | 7.38 | 0.83-0.33  | 86  |      |       |    |       |          |
| 112364 | B0.5Ib        | 2   | -16    | 2    | 7.45 | 0.20-0.62  | 2   | 4.04 | 76.7  | 34 | 2.591 | 53       |
| 112364 | B1 I          | 8   | -19.0: | 73   | 7.39 | 0.20-0.69  | 53  |      |       |    |       |          |
| 112364 | B1 III        | 33  |        |      | 7.36 | 0.22-0.71  | 59  |      |       |    |       |          |
| 112364 | B1 Ib         | 65  |        |      | 7.36 | 0.22-0.71  | 73  |      |       |    |       |          |
| 112364 | B1 Ib         | 73  |        |      |      |            |     |      |       |    |       |          |
| 112366 | B9 Ia:-Iab    | 2   | -7     | V 2  | 7.55 | 0.76-0.01  | 1   |      |       |    |       |          |
| 112366 | B2 Ia         | 9   |        |      | 7.61 | 0.74 0.01  | 2   |      |       |    |       |          |
| 112366 | B7 Iab        | 23  |        |      |      |            |     |      |       |    |       |          |
| 112366 | B6 Iab-b      | 33  |        |      |      |            |     |      |       |    |       |          |
| 112471 | B1 II-III     | 33  |        |      |      |            |     |      |       |    |       |          |
| 112484 | B2 II-III     | 33  | -57    | V 42 | 9.05 | 0.04 1.22c | 16  | 1.48 | 84.6  | 34 | 2.606 | 53       |
| 112484 | B2 V          | 42  |        |      | 9.03 | 0.04-0.74  | 53  |      |       |    |       |          |
| 112484 | B1 Vn         | 65  |        |      |      |            |     |      |       |    |       |          |
| 112497 | B1/2II-III    | 33  |        |      | 8.47 | 0.42-0.46  | 1   | 2.25 | 90.5  | 34 | 2.602 | 53       |
| 112497 |               |     |        |      | 8.46 | 0.40-0.48  | 53  |      |       |    |       |          |
| 112661 | B0/IIII-IV    | 33  |        |      | 9.21 | 0.66-0.27  | 53  | 1.84 | 74.1  | 34 | 2.601 | 53       |
| 112661 | B2 IVn        | 65  |        |      |      |            |     |      |       |    |       |          |
| 112690 | B1/3(III)     | 33  |        |      | 9.00 | 0.21-0.68  | 53  | 3.68 | 78.0  | 34 | 2.597 | 53       |
| 112751 | B2 Ib-II      | 33  |        |      | 9.29 | 0.41-0.48  | 53  | 2.51 | 77.4  | 34 | 2.606 | 53       |
| 112784 | O9.5III       | 5   | -28    | 6    | 8.28 | 0.06-0.83  | 1   | 2.25 | 82.5  | 34 | 2.593 | 53       |
| 112784 | B0 II         | 6   | -34.7  | 68   | 8.28 | 0.06-0.83  | 53  | 1.8  | 84    | 35 |       |          |
| 112784 | O9.5III       | 33  |        |      | 8.27 | 0.06-0.82  | 86  |      |       |    |       |          |
| 112784 | O9.5III       | 68  |        |      |      |            |     |      |       |    |       |          |
| 112785 | B8            | 33  |        |      | 9.70 | 0.51-0.42  | 53  | 1.08 | 139.6 | 34 | 2.623 | 53       |
| 112825 | B1.5IVe       | 6   | -5     | 6    |      |            |     |      |       |    |       |          |
| 112825 | B1/2IV-V      | 33  |        |      |      |            |     |      |       |    |       |          |
| 112842 | B3 Ib:        | 2   | -22    | 10   | 7.04 | 0.23 1.32c | 11  | 2.53 | 82.5  | 34 | 2.602 | 53       |
| 112842 | B5 I          | 10  |        |      | 7.05 | 0.22-0.44  | 53  |      |       |    |       |          |
| 112842 | B4 II         | 33  |        |      | 7.11 | 0.20       | 56  |      |       |    |       |          |
| 112842 | B5            | 56  |        |      | 7.04 | 0.22 1.32c | 57  |      |       |    |       |          |
| 112843 | B2 III:       | 6   | -43    | 6    | 9.56 | 0.10-0.71  | 53  | 1.00 | 110.1 | 34 | 2.597 | 53       |
| 112843 | B1/2II-III    | 33  |        |      | 9.53 | 0.10-0.71  | 76  |      |       |    | 2.563 | 78       |
| 112843 | B2 II         | 65  |        |      | 9.54 | 0.10-0.70  | 86  |      |       |    |       |          |
| 112843 | B2 III:       | 76  |        |      |      |            |     |      |       |    |       |          |
| 112953 | B0/1Ib-II     | 33  |        |      | 8.91 | 0.77-0.19  | 1   | 3.81 | 86.4  | 34 | 2.576 | 53       |
| 112953 |               |     |        |      | 8.89 | 0.75-0.22  | 53  | 4.6  | 81    | 35 |       |          |
| 112999 | B6 III(n)     | 33  |        |      | 7.38 | 0.07-0.45  | 53  | 1.82 | 78.3  | 34 | 2.596 | 53       |
| 113012 | B0 Ib         | 16  | -18    | 42   | 8.13 | 0.11 1.20c | 11  | 3.55 | 83.5  | 34 | 2.590 | 53       |
| 113012 | B0 III        | 33  | -24.0  | 68   | 8.14 | 0.11 1.20c | 57  |      |       |    |       |          |
| 113012 | B0 Ib         | 68  |        |      | 8.14 | 0.12-0.79  | 86  |      |       |    |       |          |
| 113013 | B2 III        | 33  |        |      |      |            |     |      |       |    |       |          |
| 113014 | B2 III        | 33  |        |      |      |            |     |      |       |    |       |          |
| 113016 | B2 V:         | 6   | 6 :    | 6    | 9.50 | 0.20-0.58  | 53  | 2.09 | 88.7  | 34 | 2.610 | 53       |
| 113016 | B1/2III-V     | 33  |        |      |      |            |     |      |       |    |       |          |
| 113034 | B1 I:         | 1   | -23    | 2    | 9.24 | 1.07 0.02  | 1   | 4.65 | 82.2  | 34 | 2.587 | 53       |
| 113034 | B1 Ib-II:     | 2   |        |      | 9.30 | 1.07 0.03  | 2   | 4.6  | 80    | 35 |       |          |
| 113034 | B0/1(III)     | 33  |        |      | 9.24 | 1.01-0.06  | 53  |      |       |    |       |          |
| 113109 | B2/3IV        | 33  |        |      | 9.17 | 0.04-0.68  | 53  | 0.52 | 74.7  | 34 | 2.620 | 53       |
| 113120 | B1.5Vne       | 37  | -47    | 66   | 6.13 | 0.02-0.86  | 53  | 1.06 | 112.5 | 34 | 2.462 | 81       |
| 113120 | B2/5(V)ne     | 33  |        | V 46 | 6.02 | 0.05-0.88  | 11  |      |       |    | 2.471 | 79       |
| 113120 | B1.5IIIine    | 7   |        |      | 6.02 | 0.03       | 7   |      |       |    | 2.467 | 53       |
| 113120 | B1 Vne        | 55  |        |      | 6.0: | 0.05       | 66  |      |       |    |       |          |
| 113120 | B1.5IIIine    | 65  |        |      |      |            |     |      |       |    |       |          |
| 113120 | B1 Vne        | 72  |        |      |      |            |     |      |       |    |       |          |
| 113163 | B5 IV         | 5   |        |      | 7.81 | 0.28-0.58  | 1   | 2.37 | 90.1  | 34 | 2.577 | 53       |
| 113163 | B1 III        | 33  |        |      | 7.83 | 0.16-0.53  | 14  | 2.4  | 88    | 35 |       |          |
| 113163 |               |     |        |      | 7.79 | 0.29-0.59  | 53  |      |       |    |       |          |
| 113347 | F0 II         | 23  |        |      |      |            |     |      |       |    |       |          |
| 113347 | A8 III-IV     | 33  |        |      |      |            |     |      |       |    |       |          |
| 113421 | B1 III:       | 5   | -27    | 42   | 9.37 | 0.20-0.56  | 1   | 3.46 | 85.9  | 34 | 2.607 | 53       |
| 113421 | B0.5III       | 16  |        |      | 9.34 | 0.20 1.25c | 16  |      |       |    |       |          |
| 113421 | B0 Vn         | 33  |        |      | 9.34 | 0.21-0.67  | 53  |      |       |    |       |          |
| 113421 |               |     |        |      | 9.35 | 0.21-0.71  | 86  |      |       |    |       |          |
| 113422 | B1 Ia         | 5   | -17    | 42   | 8.28 | 0.83-0.25  | 1   | 5.44 | 83.1  | 34 | 2.575 | 53       |
| 113422 | B1/2Ia-ab     | 33  |        |      | 8.23 | 0.86-0.17  | 2   | 5.7  | 82    | 35 |       |          |
| 113422 | B1 Ia         | 42  |        |      | 8.25 | 0.83       | 4   | 5.87 | 82.0  | 85 |       |          |
| 113422 |               |     |        |      | 8.23 | 0.81-0.23  | 53  |      |       |    |       |          |
| 113432 | B1 Ib:        | 2   | -13.9  | 2    | 8.87 | 0.78-0.22  | 1   | 2.68 | 95.1  | 34 | 2.583 | 53       |

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TABLE 2 (CONTINUED)

| STAR   | SPECTRAL TYPE | Ref | RV     | Ref | V              | B-V        | U-B | Ref | P(%) | PA    | Ref | BETA  | Ref |
|--------|---------------|-----|--------|-----|----------------|------------|-----|-----|------|-------|-----|-------|-----|
| 113432 | B1 Iab-b      | 33  |        |     | 8.86           | 0.80-0.16  |     | 2   |      |       |     |       |     |
| 113432 |               |     |        |     | 8.84           | 0.77-0.21  |     | 53  |      |       |     |       |     |
| 113511 | B0 III:       | 5   |        |     | 9.08           | 0.45-0.54  |     | 1   | 3.57 | 88.7  | 34  | 2.591 | 53  |
| 113511 | B0 IV-V       | 33  |        |     | 9.05           | 0.46-0.53  |     | 53  | 1.9: | 70    | 35  |       |     |
| 113605 | B2/3ne        | 33  |        |     | 9.67           | 0.33-0.46  |     | 53  | 1.71 | 80.2  | 34  | 2.518 | 53  |
| 113606 | B2 IV         | 31  |        |     | 8.63           | 0.46-0.55  |     | 53  | 2.27 | 79.6  | 34  | 2.582 | 53  |
| 113606 | O9.5III       | 33  |        |     |                |            |     |     |      |       |     |       |     |
| 113659 | O9 IV         | 5   |        |     |                |            |     |     |      |       |     |       |     |
| 113659 | O8/9 (III)    | 33  |        |     |                |            |     |     |      |       |     |       |     |
| 113708 | B0.5III:k     | 10  | -17    | 10  | 8.15-0.02      | 1.17c      |     | 11  |      |       |     |       |     |
| 113708 | B1/2IIIIn     | 33  |        |     |                |            |     |     |      |       |     |       |     |
| 113741 | B3/5          | 33  |        |     |                |            |     |     |      |       |     |       |     |
| 113742 | B1/2 (III)    | 33  |        |     | 9.17           | 0.38-0.48  |     | 1   |      |       |     |       |     |
| 113754 | O6/7          | 33  |        |     | 9.46           | 0.61-0.46  |     | 1   | 4.03 | 72.8  | 34  | 2.558 | 53  |
| 113754 |               |     |        |     | 9.50           | 0.63-0.43  |     | 53  | 4.6  | 71    | 35  |       |     |
| 113904 | B0 I: +WR     | 5   | -21.0V | 43  | 5.45           | 0.04       |     | 1   |      |       |     | 2.539 | 79  |
| 113904 | O9 f          | 64  |        |     | 5.50-0.02      |            |     | 66  |      |       |     |       |     |
| 113904 | O9 II         | 71  |        |     |                |            |     |     |      |       |     |       |     |
| 114011 | B1 Ib         | 2   | -28    | 6   | 9.29           | 0.76-0.13  |     | 1   | 0.34 | 84.1  | 34  | 2.596 | 53  |
| 114011 | B0.5III       | 6   |        |     | 9.24           | 0.74-0.20  |     | 53  |      |       |     |       |     |
| 114011 | B3/5Ib-II     | 33  |        |     | 9.24           | 0.76-0.23  |     | 86  |      |       |     |       |     |
| 114011 | B2 Ib         | 65  |        |     |                |            |     |     |      |       |     |       |     |
| 114024 | B0.5Ia        | 16  | -70    | 42  | 9.78           | 0.27 1.26c |     | 16  | 2.01 | 82.6  | 34  | 2.589 | 53  |
| 114024 | O9.5          | 33  | -76.0  | 68  | 9.82           | 0.24-0.64  |     | 22  |      |       |     | 2.601 | 86  |
| 114024 | B0.5Ia        | 68  |        |     | 9.80           | 0.27-0.69  |     | 53  |      |       |     |       |     |
| 114024 | B0.5Ib        | 70  |        |     | 9.72           | 0.29-0.65  |     | 70  |      |       |     |       |     |
| 114024 |               |     |        |     | 9.82           | 0.24-0.70  |     | 86  |      |       |     |       |     |
| 114026 | B1/2IV-V      | 33  |        |     | 8.26           | 0.09-0.78  |     | 53  | 1.80 | 79.7  | 34  | 2.608 | 53  |
| 114026 | B0.5V:n       | 65  |        |     |                |            |     |     |      |       |     |       |     |
| 114122 | B0 III        | 33  | -54.3  | 54  | 8.57           | 0.59-0.46  |     | 40  | 2.64 | 83.6  | 34  | 2.567 | 53  |
| 114122 | B1 Iab        | 40  | -13.0  | 75  | 8.59           | 0.57-0.44  |     | 53  | 2.7  | 84    | 35  | 2.567 | 86  |
| 114122 | B0.5Iab       | 65  |        |     | 8.58           | 0.62-0.42  |     | 70  |      |       |     |       |     |
| 114122 | B0.5Ia-Iab    | 70  |        |     | 8.57           | 0.59-0.49  |     | 86  |      |       |     |       |     |
| 114122 | B IIab        | 75  |        |     |                |            |     |     |      |       |     |       |     |
| 114169 | B1/2III       | 33  |        |     | 9.64-0.03-0.81 |            |     | 53  | 1.35 | 86.7  | 34  | 2.616 | 53  |
| 114169 | B1 Vn         | 65  |        |     |                |            |     |     |      |       |     |       |     |
| 114199 | B1 Ia         | 33  |        |     | 9.47           | 0.31-0.64  |     | 53  | 2.05 | 84.4  | 34  | 2.582 | 53  |
| 114200 | B0/2 (V)e     | 33  |        |     | 8.50           | 0.09-0.91  |     | 53  | 1.40 | 95.7  | 34  | 2.381 | 53  |
| 114200 | B1 IIIne      | 65  |        |     | 8.46           | 0.10-0.90  |     | 76  |      |       |     |       |     |
| 114200 | B5 Ve         | 76  |        |     |                |            |     |     |      |       |     |       |     |
| 114213 | B1 I (b)      | 16  | -31    | 42  | 8.98           | 0.91 1.53c |     | 16  | 2.67 | 144.1 | 34  | 2.579 | 53  |
| 114213 | B1 Ib         | 33  |        |     | 8.99           | 0.93-0.03  |     | 53  |      |       |     |       |     |
| 114213 | B1 Iab        | 65  |        |     | 8.91           | 0.94-0.03  |     | 70  |      |       |     |       |     |
| 114213 | B1 Ib         | 70  |        |     | 8.97           | 0.96-0.08  |     | 86  |      |       |     |       |     |
| 114340 | B1 Ia+        | 5   | -45    | 6   | 8.08           | 0.55-0.55  |     | 1   | 4.81 | 74.3  | 34  | 2.532 | 53  |
| 114340 | B1 I          | 6   | -50.1  | 68  | 8.07           | 0.61       |     | 4   | 5.0  | 74    | 35  | 2.539 | 86  |
| 114340 | O9            | 22  | -44.7  | 86  | 8.09           | 0.51-0.47  |     | 22  |      |       |     |       |     |
| 114340 | F2 Ib-II      | 23  |        |     | 8.03           | 0.54-0.50  |     | 53  |      |       |     |       |     |
| 114340 | B1 Ia         | 33  |        |     | 7.99           | 0.55-0.43  |     | 70  |      |       |     |       |     |
| 114340 | B1 Ia0        | 68  |        |     | 8.02           | 0.54-0.52  |     | 86  |      |       |     |       |     |
| 114340 | B0.5Ia+       | 70  |        |     |                |            |     |     |      |       |     |       |     |
| 114341 | B0 III:nn     | 1   |        |     | 9.04           | 0.13-0.73  |     | 53  | 2.57 | 81.9  | 34  | 2.594 | 53  |
| 114341 | B0 III:nn     | 33  |        |     |                |            |     |     | 2.3  | 78    | 35  |       |     |
| 114394 | B1 III        | 33  |        |     | 8.22           | 0.22-0.70  |     | 22  | 2.99 | 81.8  | 34  | 2.596 | 53  |
| 114394 |               |     |        |     | 8.21           | 0.12-0.76  |     | 53  |      |       |     |       |     |
| 114441 | B2 IVpe       | 5   | -8.0:  | 6   | 8.03           | 0.13-0.76  |     | 76  |      |       |     |       |     |
| 114441 | B2 V:ne       | 6   |        |     |                |            |     |     |      |       |     |       |     |
| 114441 | B2 Vhne       | 33  |        |     |                |            |     |     |      |       |     |       |     |
| 114441 | B2 V:ne       | 76  |        |     |                |            |     |     |      |       |     |       |     |
| 114461 | F0 II         | 23  |        |     | 6.32           | 0.44 1.63c |     | 11  |      |       |     |       |     |
| 114461 | A8 II-III     | 33  |        |     |                | 0.35       |     | 61  |      |       |     |       |     |
| 114478 | B1 II         | 5   | -64.8  | 54  | 8.70           | 0.47-0.50  |     | 1   | 1.6  | 71    | 35  | 2.582 | 86  |
| 114478 | B1 Ib-II      | 33  | 6.0    | 75  | 8.68           | 0.49-0.52  |     | 40  |      |       |     |       |     |
| 114478 | B1 Ib         | 40  |        |     | 8.63           | 0.53-0.43  |     | 70  |      |       |     |       |     |
| 114478 | B1 Ia-Iab:    | 70  |        |     | 8.67           | 0.48-0.54  |     | 86  |      |       |     |       |     |
| 114478 | B IIb         | 75  |        |     |                |            |     |     |      |       |     |       |     |
| 114489 | F2 Ib-II      | 23  |        |     | 6.74           | 0.46 1.62c |     | 11  |      |       |     |       |     |
| 114489 | A9/F0II       | 33  |        |     |                |            |     |     |      |       |     |       |     |
| 114516 | B0 (Ve)       | 33  |        |     |                |            |     |     |      |       |     |       |     |
| 114530 | O9.5III       | 33  |        |     | 9.08           | 0.32-0.62  |     | 53  | 1.51 | 86.8  | 34  | 2.599 | 53  |
| 114530 | B0 I          | 70  |        |     | 9.08           | 0.57 0.13  |     | 70  |      |       |     |       |     |
| 114733 | B0.5V         | 6   | -46    | 6   | 9.51           | 0.28-0.55  |     | 53  | 4.36 | 76.9  | 34  | 2.621 | 53  |
| 114733 | B2/3III       | 33  |        |     | 9.52           | 0.27-0.53  |     | 86  |      |       |     |       |     |
| 114733 | B1.5IIIn      | 65  |        |     |                |            |     |     |      |       |     |       |     |

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TABLE 2 (CONTINUED)

| STAR   | SPECTRAL TYPE | Ref | RV    | Ref  | V     | B-V       | U-B   | Ref | P(%) | PA    | Ref | BETA  | Ref |
|--------|---------------|-----|-------|------|-------|-----------|-------|-----|------|-------|-----|-------|-----|
| 114737 | O9 V          | 5   |       |      | 8.01  | 0.19-0.76 |       | 53  | 1.85 | 80.0  | 34  | 2.590 | 53  |
| 114737 | O9 (III)      | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 114737 | O9 III        | 71  |       |      |       |           |       |     |      |       |     |       |     |
| 114792 | F8 Ib         | 23  |       |      | 6.80  | 0.90      | 1.85c | 11  |      |       |     |       |     |
| 114792 | F5/6Ib        | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 114800 | B2 Vpe        | 5   | -28   | 6    | 7.9:  | 0.11-0.84 |       | 1   | 0.72 | 109.4 | 34  | 2.448 | 53  |
| 114800 | B ne          | 6   |       |      | 8.00  | 0.12-0.83 |       | 53  |      |       |     |       |     |
| 114800 | B2 III-Vne    | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 114855 | F9 Ib-II      | 23  |       |      |       |           |       |     |      |       |     |       |     |
| 114855 | F5 Ia-ab      | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 114886 | O9 V:         | 5   | -11   | V 10 | 6.87  | 0.12      | 1.22c | 11  | 1.75 | 72.5  | 34  | 2.582 | 53  |
| 114886 | O9 Vk         | 10  | -63.5 | 82   | 6.88  | 0.12-0.80 |       | 53  |      |       |     | 2.583 | 86  |
| 114886 | B1/2Ib-II     | 33  |       |      | 6.88  | 0.11-0.82 |       | 86  |      |       |     |       |     |
| 114886 | O9 II-III     | 71  |       |      |       |           |       |     |      |       |     |       |     |
| 114954 | A8/F0(III)    | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 114954 | F2 II         | 50  |       |      |       |           |       |     |      |       |     |       |     |
| 115034 | B1 V          | 6   | - 7   | : 6  | 8.80  | 0.09-0.78 |       | 53  | 2.34 | 80.1  | 34  | 2.604 | 53  |
| 115034 | B1/2V         | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 115042 | B0            | 33  | -21.3 | 86   | 9.06  | 0.80-0.27 |       | 27  | 4.65 | 68.8  | 34  | 2.546 | 53  |
| 115042 | B1 Ia         | 70  |       |      | 9.10  | 0.76-0.26 |       | 53  |      |       |     | 2.556 | 86  |
| 115042 |               |     |       |      | 9.07  | 0.80-0.22 |       | 70  |      |       |     |       |     |
| 115042 |               |     |       |      | 9.06  | 0.79-0.32 |       | 86  |      |       |     |       |     |
| 115071 | O9 Vn         | 26  | - 9.5 | 82   | 6.64  | 0.22-0.74 |       | 26  | 1.87 | 83.0  | 34  | 2.592 | 53  |
| 115071 | O9/B0V        | 33  |       |      | 7.96  | 0.24-0.69 |       | 53  |      |       |     |       |     |
| 115114 | B e           | 33  |       |      | 9.79  | 0.32-0.60 |       | 53  | 3.98 | 75.9  | 34  | 2.380 | 53  |
| 115114 | B0 e          | 70  |       |      | 9.65  | 0.40-0.56 |       | 70  |      |       |     |       |     |
| 115223 | A0 Iab        | 23  |       |      | 8.66  | 0.59      | 0.30  | 70  |      |       |     |       |     |
| 115223 | A0 Ib-II      | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 115223 | A0 II         | 70  |       |      |       |           |       |     |      |       |     |       |     |
| 115316 | B1 V          | 16  | -22.9 | 54   | 9.32  | 0.24      | 1.26c | 16  | 1.89 | 81.1  | 34  | 2.582 | 53  |
| 115316 | B0 IIIn       | 26  | -37.6 | 86   | 9.29  | 0.23-0.75 |       | 26  |      |       |     | 2.575 | 86  |
| 115316 | B3/6III-IV    | 33  |       |      | 9.31  | 0.23-0.72 |       | 40  |      |       |     |       |     |
| 115316 |               |     |       |      | 9.35  | 0.22-0.69 |       | 53  |      |       |     |       |     |
| 115316 |               |     |       |      | 9.33  | 0.22-0.71 |       | 86  |      |       |     |       |     |
| 115363 | B1 Ia+        | 5   | -71   | 6    | 7.83  | 0.61-0.43 |       | 1   | 2.85 | 61.7  | 34  | 2.529 | 53  |
| 115363 | B2 I          | 6   |       |      | 7.79  | 0.61      |       | 4   | 3.1  | 58    | 35  | 2.528 | 86  |
| 115363 | B1 Ia         | 33  |       |      | 7.77  | 0.62-0.44 |       | 53  |      |       |     |       |     |
| 115363 | B1 Ia+        | 70  |       |      | 7.78  | 0.16-0.47 |       | 86  |      |       |     |       |     |
| 115400 | F5 II         | 23  |       |      | 6.80  | 0.74      | 1.76c | 11  |      |       |     |       |     |
| 115400 | F2 Ib         | 33  |       |      | 6.82  | 0.83      | 0.49  | 70  |      |       |     |       |     |
| 115400 | F5 Iab        | 70  |       |      |       |           |       |     |      |       |     |       |     |
| 115455 | B1 V          | 16  | -22.9 | 54   | 7.99  | 0.21-0.78 |       | 25  | 2.29 | 73.0  | 34  | 2.588 | 53  |
| 115455 | O9 V          | 26  | -38   | 75   | 7.95  | 0.19-0.82 |       | 26  |      |       |     | 2.590 | 86  |
| 115455 | B0 IV         | 31  |       |      | 7.99  | 0.22-0.77 |       | 40  |      |       |     |       |     |
| 115455 | O8            | 33  |       |      | 8.01  | 0.21-0.75 |       | 53  |      |       |     |       |     |
| 115455 | O8            | 40  |       |      | 7.98  | 0.20-0.77 |       | 86  |      |       |     |       |     |
| 115455 | O8 V          | 54  |       |      |       |           |       |     |      |       |     |       |     |
| 115455 | O7.5III(f)    | 71  |       |      |       |           |       |     |      |       |     |       |     |
| 115455 | O8            | 75  |       |      |       |           |       |     |      |       |     |       |     |
| 115473 | WC            | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 115484 | B5 Ib-II      | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 115514 | F8 Ib-II      | 23  |       |      |       |           |       |     |      |       |     |       |     |
| 115514 | F5 Iab-b      | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 115533 | B2/5(Ib-II)   | 33  | -21.6 | 86   | 10.09 | 0.08-0.74 |       | 86  |      |       |     |       |     |
| 115704 | B0.5Iab       | 33  |       |      | 8.15  | 0.47-0.56 |       | 53  | 3.99 | 74.0  | 34  | 2.550 | 53  |
| 115704 | B0.5Ia-Iab    | 70  |       |      | 8.05  | 0.49-0.47 |       | 70  | 3.5  | 74    | 35  | 2.526 | 86  |
| 115704 |               |     |       |      | 8.08  | 0.47-0.59 |       | 86  |      |       |     |       |     |
| 115746 | B2/4III-V     | 33  |       |      | 9.62  | 0.25-0.54 |       | 86  | 2.3  | 60    | 35  |       |     |
| 115805 | B1: Vnne      | 16  |       |      | 9.71  | 0.35      | 1.28c | 16  | 2.16 | 27.9  | 34  | 2.601 | 53  |
| 115805 |               |     |       |      | 9.77  | 0.27-0.70 |       | 86  |      |       |     |       |     |
| 115805 | B1: Vnne      | 33  |       |      | 9.75  | 0.28-0.69 |       | 53  |      |       |     | 2.590 | 86  |
| 115842 | B0.5Iab       | 5   | - 2.0 | 10   | 6.01  | 0.29      |       | 7   | 0.47 | 111.0 | 34  | 2.537 | 53  |
| 115842 | B0.5I         | 8   | - 3.7 | 66   | 6.01  | 0.30      | 1.25c | 11  | 0.24 | 129.3 | 36  | 2.528 | 79  |
| 115842 | B0.5Ia        | 7   | - 4   | 49   | 6.01  | 0.30-0.71 |       | 86  |      |       |     | 2.545 | 81  |
| 115842 | B0 I          | 10  | - 8.0 | 68   | 6.05  | 0.31-0.69 |       | 53  |      |       |     | 2.531 | 86  |
| 115842 | B0.5Ia-ab     | 33  |       |      | 6.01  | 0.29      | 1.25c | 57  |      |       |     |       |     |
| 115842 | B0.5Ia        | 65  |       |      | 6.02  | 0.30      |       | 66  |      |       |     |       |     |
| 115922 | F4 II         | 23  |       |      |       |           |       |     |      |       |     |       |     |
| 115922 | F0 III        | 33  |       |      |       |           |       |     |      |       |     |       |     |
| 115937 | B1/2Ib-II     | 33  | -47.5 | 86   | 10.00 | 0.26-0.60 |       | 86  |      |       |     |       |     |
| 116003 | B1 II         | 33  | - 9.0 | 73   | 6.91  | 0.01-0.84 |       | 53  | 0.91 | 77.3  | 34  | 2.578 | 53  |
| 116003 | B1 II         | 65  |       |      | 6.92  | 0.02-0.83 |       | 63  |      |       |     |       |     |
| 116003 | B1 III:       | 70  |       |      | 7.23  | 0.28-0.73 |       | 70  |      |       |     |       |     |
| 116003 | B1 II         | 73  |       |      | 6.92  | 0.02-0.83 |       | 73  |      |       |     |       |     |

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TABLE 2 (CONTINUED)

| STAR   | SPECTRAL TYPE | Ref | RV     | Ref | V     | B-V       | U-B   | Ref | P(%) | PA   | Ref | BETA  | Ref |
|--------|---------------|-----|--------|-----|-------|-----------|-------|-----|------|------|-----|-------|-----|
| 116119 | B9 I          | 10  | -22    | 10  | 7.91  | 0.71      | 1.49c | 11  | 2.9  | 76   | 35  |       |     |
| 116119 | B6 Ib         | 23  |        |     | 7.91  | 0.69      | 1.49c | 57  |      |      |     |       |     |
| 116119 | B9.5Ia        | 33  |        |     | 7.87  | 0.71-0.05 |       | 70  |      |      |     |       |     |
| 116119 | A0 Ia         | 70  |        |     | 7.89  | 0.73-0.08 |       | 86  |      |      |     |       |     |
| 116121 | O9/B0(V)      | 33  |        |     | 9.22  | 0.04-0.76 |       | 86  |      |      |     |       |     |
| 116282 | B0 IV         | 6   | -39 V  | 6   | 9.66  | 0.41-0.60 |       | 53  | 0.54 | 79.6 | 34  | 2.577 | 53  |
| 116282 | B0 IV         | 33  | -35.8  | 86  | 9.68  | 0.39-0.63 |       | 86  |      |      |     |       |     |
| 116328 | B2 V          | 6   | -32.0: | 6   |       |           |       |     |      |      |     |       |     |
| 116328 | B3 II         | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 116420 | F3 II         | 23  |        |     |       |           |       |     |      |      |     |       |     |
| 116420 | F0 II         | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 116438 | B1 III        | 33  |        |     | 8.09  | 0.19-0.65 |       | 53  | 0.57 | 97.0 | 34  | 2.584 | 53  |
| 116438 |               |     |        |     | 8.08  | 0.20-0.65 |       | 86  |      |      |     |       |     |
| 116491 | B3 III        | 33  |        |     | 8.80  | 0.12-0.64 |       | 53  | 1.21 | 71.2 | 34  | 2.627 | 53  |
| 116781 | O9/B1(I)e     | 33  |        |     | 7.45  | 0.16-0.91 |       | 53  | 1.46 | 80.7 | 34  | 2.352 | 53  |
| 116796 | O9 III        | 1   |        |     | 8.48  | 0.08-0.88 |       | 27  | 1.74 | 76.6 | 34  | 2.588 | 53  |
| 116796 | O9 II         | 33  |        |     | 8.42  | 0.09-0.75 |       | 70  |      |      |     | 2.588 | 86  |
| 116796 | B0 V:         | 70  |        |     | 8.46  | 0.06-0.89 |       | 86  |      |      |     |       |     |
| 116849 | B1: V:pe      | 5   | -36 :  | 6   |       |           |       |     |      |      |     |       |     |
| 116849 | B1 Vpe        | 6   |        |     |       |           |       |     |      |      |     |       |     |
| 116849 | B1 Vpe        | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117000 | F5 Iab        | 23  |        |     | 6.62  | 1.08      | 0.52  | 70  |      |      |     |       |     |
| 117000 | F0/2Ia        | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117000 | F2 Ia         | 70  |        |     |       |           |       |     |      |      |     |       |     |
| 117024 | B2            | 10  | -12    | 10  | 7.11  | 0.05      | 1.24c | 11  | 1.74 | 75.2 | 34  | 2.579 | 53  |
| 117024 | B2 Ib         | 33  |        |     | 7.09  | 0.05-0.71 |       | 27  |      |      |     |       |     |
| 117024 | B1.5Iab       | 70  |        |     | 7.12  | 0.04-0.72 |       | 53  |      |      |     |       |     |
| 117024 | B1.5Iab       | 70  |        |     | 7.11  | 0.06      | 1.24c | 57  |      |      |     |       |     |
| 117024 |               |     |        |     | 7.08  | 0.09-0.62 |       | 70  |      |      |     |       |     |
| 117024 |               |     |        |     | 7.12  | 0.04-0.72 |       | 86  |      |      |     |       |     |
| 117058 | A5 Ib-II      | 23  |        |     |       |           |       |     |      |      |     |       |     |
| 117058 | A3 II-III     | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117111 | B1 Vpe        | 5   | -19 :  | 6   | 7.68  | 0.11-0.76 |       | 53  | 0.86 | 78.8 | 34  | 2.451 | 53  |
| 117111 | B0 Vne        | 6   |        |     |       |           |       |     | 1.4  | 70   | 35  |       |     |
| 117111 | B2 Ve         | 8   |        |     |       |           |       |     |      |      |     |       |     |
| 117111 | B2 (V)ne      | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117134 | B0/1(IIIn)    | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117297 | WC            | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117326 | B2 II         | 33  |        |     | 9.55  | 0.12-0.65 |       | 53  | 1.04 | 81.8 | 34  | 2.612 | 53  |
| 117326 |               |     |        |     | 9.53  | 0.15-0.66 |       | 86  |      |      |     |       |     |
| 117357 | B0 Vne        | 6   | -24 :  | 6   | 8.98  | 0.26-0.74 |       | 53  | 3.04 | 74.2 | 34  | 2.503 | 53  |
| 117357 | O9.5/B0V      | 33  | -38.7  | 86  |       |           |       |     |      |      |     |       |     |
| 117460 | B2 II-III     | 1   | -16.2  | 73  | 7.13  | 0.05-0.66 |       | 53  | 2.12 | 78.7 | 34  | 2.603 | 53  |
| 117460 | B2 III        | 8   |        |     | 7.49  | 0.07-0.66 |       | 86  |      |      |     |       |     |
| 117460 | B0/1(III)     | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117460 | B2 III        | 73  |        |     |       |           |       |     |      |      |     |       |     |
| 117473 | A8/9V         | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117490 | O9/B0V(n)     | 33  |        |     | 8.92  | 0.05-0.84 |       | 53  | 1.53 | 59.8 | 34  | 2.669 | 53  |
| 117490 | O9 III:       | 70  |        |     | 8.89  | 0.03-0.77 |       | 70  |      |      |     |       |     |
| 117687 | B2 Ib-II      | 33  |        |     | 9.35  | 0.13-0.72 |       | 53  | 1.96 | 67.7 | 34  | 2.607 | 53  |
| 117688 | WN            | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 117704 | B1/2III       | 33  | -77.9  | 54  | 8.90  | 0.22-0.62 |       | 40  | 1.93 | 88.4 | 34  | 2.635 | 53  |
| 117704 | B1 III        | 40  | -21    | 75  | 8.92  | 0.20-0.58 |       | 53  |      |      |     |       |     |
| 117704 | B1 II         | 75  |        |     |       |           |       |     |      |      |     |       |     |
| 117707 | B0.5I         | 6   | -30    | 6   | 9.44  | 0.53      |       | 4   | 2.18 | 60.3 | 34  | 2.545 | 53  |
| 117707 | B0.5I         | 8   | -40.7  | 86  | 9.41  | 0.56-0.44 |       | 53  | 2.4  | 58   | 35  |       |     |
| 117707 | B1 Ia         | 33  |        |     | 9.38  | 0.60-0.38 |       | 70  |      |      |     |       |     |
| 117707 | B0.5Ia:       | 70  |        |     |       |           |       |     |      |      |     |       |     |
| 117797 | O8.5          | 6   | -25 V  | 6   | 9.19  | 0.50-0.56 |       | 40  | 1.72 | 68.3 | 34  | 2.548 | 53  |
| 117797 | O6            | 8   | -19.5  | 54  | 9.20  | 0.48-0.54 |       | 53  |      |      |     | 2.539 | 86  |
| 117797 | B1/2III       | 33  | -35.0  | 75  |       |           |       |     |      |      |     |       |     |
| 117797 | O8 f          | 40  |        |     |       |           |       |     |      |      |     |       |     |
| 117797 | O8 Vf         | 54  |        |     |       |           |       |     |      |      |     |       |     |
| 117797 | O8 f          | 75  |        |     |       |           |       |     |      |      |     |       |     |
| 117856 | B0 Ib         | 5   | -20 :  | 42  | 7.36  | 0.20-0.72 |       | 1   | 1.35 | 95.6 | 34  | 2.582 | 53  |
| 117856 | B0/1III       | 33  |        |     | 7.42  | 0.21-0.71 |       | 53  |      |      |     |       |     |
| 117856 | B0 Ib         | 42  |        |     | 7.35  | 0.22-0.62 |       | 70  |      |      |     |       |     |
| 117856 | B0 Ib         | 70  |        |     |       |           |       |     |      |      |     |       |     |
| 118198 | O9/9.5III     | 33  | -14.4  | 86  | 8.49  | 0.19-0.76 |       | 53  | 2.97 | 86.4 | 34  | 2.590 | 53  |
| 118198 | O9.5II-III    | 71  |        |     |       |           |       |     |      |      |     |       |     |
| 119078 | O8 f          | 33  |        |     |       |           |       |     |      |      |     |       |     |
| 311815 | B5 V          | 16  |        |     | 10.85 | 0.48-0.22 |       | 1   |      |      |     |       |     |
| 311815 |               |     |        |     | 10.77 | 0.47      | 1.43c | 16  |      |      |     |       |     |
| 311846 |               |     |        |     | 10.31 | 1.16      | 0.09  | 1   |      |      |     |       |     |

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TABLE 2 (CONTINUED)

| STAR     | SPECTRAL TYPE  | Ref | RV    | Ref | V     | B-V       | U-B   | Ref | P(%) | PA   | Ref | BETA  | Ref |
|----------|----------------|-----|-------|-----|-------|-----------|-------|-----|------|------|-----|-------|-----|
| 311884   |                |     |       |     | 10.71 | 0.86-0.16 |       | 29  |      |      |     |       |     |
| 311973   |                |     |       |     | 10.97 | 0.85-0.21 |       | 1   |      |      |     |       |     |
| 311999   | O9.5V:         | 1   |       |     | 10.84 | 0.65-0.27 |       | 1   | 2.9  | 94   | 35  |       |     |
| 311999   | O9.5V          | 40  |       |     | 10.74 | 0.68-0.33 |       | 40  |      |      |     |       |     |
| 312001   |                |     |       |     | 10.93 | 0.66-0.07 |       | 1   |      |      |     |       |     |
| 312002   |                |     |       |     | 11.61 | 0.84      | 0.10  | 1   |      |      |     |       |     |
| 312021   |                |     |       |     | 10.54 | 1.02-0.19 |       | 1   |      |      |     |       |     |
| 312051   |                |     |       |     | 11.24 | 0.72-0.02 |       | 1   | 3.0  | 53   | 35  |       |     |
| 312052   |                |     |       |     | 11.50 | 0.52-0.01 |       | 1   | 2.6  | 57   | 35  |       |     |
| 312139   |                |     |       |     | 10.75 | 1.14      | 0.07  | 1   |      |      |     |       |     |
| 312155   |                |     |       |     |       |           |       |     | 1.6  | 43   | 35  |       |     |
| 312174   |                |     |       |     | 9.81  | 0.74-0.27 |       | 53  | 1.10 | 56.8 | 34  | 2.613 | 53  |
| 312174   |                |     |       |     | 9.82  | 0.73-0.29 |       | 1   |      |      |     |       |     |
| 312253   |                |     |       |     | 9.88  | 0.42-0.41 |       | 1   | 3.01 | 86.3 | 34  | 2.628 | 53  |
| 312253   |                |     |       |     | 9.91  | 0.43-0.42 |       | 53  |      |      |     |       |     |
| 312256   |                |     |       |     | 9.75  | 0.80-0.18 |       | 1   | 4.0  | 100  | 35  |       |     |
| 312256   |                |     |       |     |       |           |       |     | 5.37 | 94.3 | 85  |       |     |
| 312258   |                |     |       |     | 10.40 | 1.28      | 0.21  | 1   | 6.4  | 88   | 35  |       |     |
| 312259   |                |     |       |     | 10.50 | 1.20      | 0.14  | 1   | 5.5  | 90   | 35  |       |     |
| 312267   | B2 V           | 31  |       |     |       |           |       |     |      |      |     |       |     |
| 312287   |                |     |       |     | 10.70 | 0.95-0.22 |       | 1   |      |      |     |       |     |
| -53 5566 |                |     |       |     | 10.80 | 0.14-0.58 |       | 86  |      |      |     | 2.618 | 86  |
| -56 5541 | B2 IV          | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -57 5809 |                |     |       |     | 10.52 | 0.16-0.57 |       | 53  | 0.84 | 87.8 | 34  | 2.578 | 53  |
| -58 4723 | B0.5IVn        | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -58 4858 | B2 IV          | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4239 |                |     |       |     | 10.74 | 0.13-0.40 |       | 77  |      |      |     | 2.643 | 77  |
| -59 4245 |                |     |       |     | 10.26 | 0.16-0.35 |       | 77  |      |      |     | 2.663 | 77  |
| -59 4246 |                |     |       |     | 10.42 | 0.14-0.35 |       | 77  |      |      |     | 2.648 | 77  |
| -59 4330 | O9.5Iab        | 2   |       |     | 10.28 | 0.46-0.49 |       | 2   |      |      |     |       |     |
| -59 4362 |                |     |       |     | 10.05 | 0.10-0.75 |       | 53  | 1.86 | 93.0 | 34  | 2.518 | 53  |
| -59 4423 | B2 III:nep     | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4459 | B3 II:         | 2   | -22   | 15  | 8.88  | 0.14-0.39 |       | 2   |      |      |     |       |     |
| -59 4459 | M2/3Iab        | 15  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4460 | B0.5Ia         | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4468 | B2: Vhne       | 16  |       |     | 10.26 | 0.22      | 1.32c | 16  | 2.51 | 72.0 | 34  | 2.465 | 53  |
| -59 4468 |                |     |       |     | 10.34 | 0.20-0.66 |       | 53  |      |      |     |       |     |
| -59 4528 |                |     | -27.0 | 15  |       |           |       |     |      |      |     |       |     |
| -59 4552 | B0.5/B1        | 15  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4564 | B0.5/B1III-III | 15  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4629 | B1 II          | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4634 | O9.5III        | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4640 | B5 Ib          | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4651 | B6 V           | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4654 | B0.2Ib         | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4679 |                |     |       |     | 10.23 | 0.31-0.32 |       | 53  | 3.06 | 88.6 | 34  | 2.556 | 53  |
| -59 4684 |                |     |       |     | 10.41 | 0.18      | 1.28c | 16  |      |      |     |       |     |
| -59 4711 | B0.5V:n        | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4801 | B0.5IVhn       | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4804 | B1 Ia          | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 4894 |                |     |       |     | 10.25 | 0.04-0.70 |       | 53  | 1.17 | 75.1 | 34  | 2.649 | 53  |
| -59 4914 |                |     |       |     | 9.77  | 0.27-0.70 |       | 86  |      |      |     |       |     |
| -59 4951 | O9 IVn         | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -59 5011 |                |     |       |     | 10.68 | 0.12-0.54 |       | 53  | 0.86 | 56.8 | 34  | 2.653 | 53  |
| -60 4204 | B2 V e         | 2   |       |     | 10.32 | 0.54-0.24 |       | 2   |      |      |     |       |     |
| -60 4258 |                |     |       |     | 8.76  | 0.24-0.66 |       | 86  |      |      |     |       |     |
| -60 4282 |                |     |       |     | 10.26 | 0.40-0.42 |       | 53  | 4.99 | 78.4 | 34  | 2.619 | 53  |
| -60 4285 | B0 III         | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -60 4309 | B1 IVn         | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -60 4312 | O9.5V          | 40  | - 7.8 | 54  | 10.74 | 0.68-0.33 |       | 40  |      |      |     |       |     |
| -60 4312 | O9.5V          | 75  | -17.0 | 75  |       |           |       |     |      |      |     |       |     |
| -60 4334 |                |     |       |     | 10.43 | 0.32-0.45 |       | 53  | 2.11 | 86.0 | 34  | 2.661 | 53  |
| -60 4344 |                |     |       |     | 9.91  | 0.45-0.46 |       | 53  | 3.38 | 85.5 | 34  | 2.642 | 53  |
| -60 4372 | B1 II          | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -60 4390 |                |     |       |     | 9.91  | 0.43-0.42 |       | 53  |      |      |     | 2.628 | 53  |
| -60 4396 | B1 II          | 65  |       |     |       |           |       |     |      |      |     |       |     |
| -60 4412 | B0 Ib          | 2   |       |     | 10.29 | 0.74-0.23 |       | 2   |      |      |     |       |     |
| -60 4434 |                |     |       |     | 9.59  | 0.91-0.16 |       | 53  | 3.11 | 92.4 | 34  | 2.596 | 53  |
| -60 4438 |                |     |       |     | 10.09 | 0.37-0.47 |       | 53  | 2.38 | 92.8 | 34  | 2.485 | 53  |
| -60 4460 |                |     |       |     | 10.58 | 0.46-0.47 |       | 1   |      |      |     |       |     |
| -60 4463 |                |     |       |     | 8.90  | 0.60-0.35 |       | 1   |      |      |     |       |     |
| -60 4480 | B2 Vn          | 16  | -21.2 | 15  | 9.55  | 0.23      | 1.31c | 16  |      |      |     |       |     |
| -60 4480 | B1 V           | 70  |       |     | 9.58  | 0.27-0.58 |       | 70  |      |      |     |       |     |
| -60 4480 |                |     |       |     | 9.58  | 0.23-0.60 |       | 1   |      |      |     |       |     |

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TABLE 2 (CONTINUED)

| STAR     | SPECTRAL TYPE | Ref | RV    | Ref | V     | B-V        | U-B | Ref | P(%) | PA    | Ref | BETA Ref |
|----------|---------------|-----|-------|-----|-------|------------|-----|-----|------|-------|-----|----------|
| -60 4512 | B0 IV         | 65  |       |     |       |            |     |     |      |       |     |          |
| -60 4518 | B1 ne         | 76  |       |     | 10.40 | 0.38-0.49  |     | 76  |      |       |     |          |
| -60 4518 |               |     |       |     | 10.44 | 0.35-0.53  |     | 86  |      |       |     |          |
| -60 4519 |               |     |       |     | 9.98  | 0.22-0.45  |     | 53  | 1.47 | 103.1 | 34  | 2.661 53 |
| -60 4520 |               |     | -18.2 | 86  | 11.57 | 0.38-0.31  |     | 86  |      |       |     | 2.585 86 |
| -60 4528 | B1 III        | 42  | -19   | 42  | 8.74  | 0.23 1.26c |     | 11  | 1.57 | 52.6  | 34  | 2.583 53 |
| -60 4528 | B1 III        | 65  |       |     | 8.76  | 0.22-0.65  |     | 53  |      |       |     |          |
| -60 4535 |               |     |       |     | 10.33 | 0.23-0.54  |     | 53  | 0.92 | 81.6  | 34  | 2.657 53 |
| -60 4539 |               |     |       |     | 10.49 | 0.74-0.38  |     | 86  |      |       |     | 2.579 86 |
| -60 4549 |               |     |       |     |       |            |     |     |      |       |     | 2.657 86 |
| -60 4551 | B1 IIIIne     | 65  |       |     | 9.83  | 0.54-0.39  |     | 53  | 1.71 | 97.3  | 34  | 2.529 53 |
| -60 4551 |               |     |       |     | 9.78  | 0.55-0.44  |     | 86  |      |       |     | 2.532 86 |
| -60 4558 | O6.5If        | 65  | -37.8 | 86  | 9.49  | 0.55-0.50  |     | 53  | 1.85 | 76.9  | 34  | 2.544 53 |
| -60 4558 | O6 f          | 76  |       |     | 9.50  | 0.58-0.44  |     | 76  |      |       |     | 2.563 86 |
| -60 4558 |               |     |       |     | 9.49  | 0.55-0.53  |     | 86  |      |       |     |          |
| -60 4571 |               |     |       |     | 10.12 | 0.56-0.39  |     | 86  |      |       |     | 2.526 86 |
| -60 4651 | B1 II-III     | 65  |       |     |       |            |     |     |      |       |     |          |
| -60 4678 |               |     |       |     | 9.76  | 0.35-0.43  |     | 86  |      |       |     |          |
| -60 4697 |               |     |       |     | 10.45 | 0.27-0.52  |     | 25  |      |       |     | 2.561 77 |
| -60 4697 |               |     |       |     | 10.49 | 0.21-0.47  |     | 77  |      |       |     |          |
| -60 4703 |               |     |       |     | 10.85 | 0.74-0.30  |     | 77  |      |       |     |          |
| -60 4704 |               |     |       |     | 10.82 | 0.79-0.32  |     | 25  |      |       |     | 2.433 86 |
| -60 4704 |               |     |       |     | 10.79 | 0.79-0.32  |     | 86  |      |       |     |          |
| -60 4708 | B1.5V:ne      | 65  |       |     | 10.01 | 0.25-0.53  |     | 53  | 1.42 | 72.6  | 34  | 2.560 53 |
| -60 4708 |               |     |       |     | 10.10 | 0.20-0.52  |     | 77  |      |       |     | 2.572 77 |
| -60 4718 | B1.5Vn        | 65  |       |     | 10.08 | 0.30-0.46  |     | 53  | 1.49 | 83.4  | 34  | 2.599 53 |
| -60 4744 | O9 Vnn        | 65  |       |     |       |            |     |     |      |       |     |          |
| -60 4759 | B1.5II        | 65  |       |     |       |            |     |     |      |       |     |          |
| -61 3212 | B2 IVne       | 65  |       |     | 9.43  | 0.21-0.58  |     | 53  | 2.16 | 107.1 | 34  | 2.596 53 |
| -61 3230 | O7            | 2   |       |     | 10.47 | 0.73-0.30  |     | 2   |      |       |     |          |
| -61 3439 | B1 Iabp       | 65  |       |     |       |            |     |     |      |       |     |          |
| -61 3442 |               |     |       |     | 10.78 | 0.99 0.02  |     | 1   |      |       |     |          |
| -61 3445 | B2 Vpe        | 65  |       |     |       |            |     |     |      |       |     |          |
| -61 3446 | B1 III        | 31  |       |     | 10.12 | 0.53-0.37  |     | 53  | 1.92 | 108.0 | 34  | 2.633 53 |
| -61 3450 |               |     |       |     | 10.16 | 0.59-0.37  |     | 1   |      |       |     |          |
| -61 3452 | O9.5II        | 2   |       |     | 11.28 | 0.77-0.29  |     | 1   | 3.26 | 68.4  | 34  | 2.587 53 |
| -61 3452 |               |     |       |     | 9.28  | 0.78-0.22  |     | 2   |      |       |     |          |
| -61 3452 |               |     |       |     | 9.28  | 0.75-0.27  |     | 53  |      |       |     |          |
| -61 3462 | B0.5II        | 65  |       |     | 9.20  | 0.56-0.40  |     | 53  | 2.26 | 88.5  | 34  | 2.588 53 |
| -61 3469 | B1 V          | 22  |       |     | 9.87  | 0.34-0.51  |     | 22  |      |       |     |          |
| -61 3472 | B1.5V         | 22  |       |     | 9.90  | 0.34-0.48  |     | 22  |      |       |     |          |
| -61 3492 |               |     |       |     | 10.94 | 0.83-0.24  |     | 86  |      |       |     | 2.588 86 |
| -61 3502 |               |     | -34.0 | 86  | 10.32 | 0.75-0.29  |     | 86  |      |       |     | 2.587 86 |
| -61 3512 | B1 III        | 65  |       |     | 10.03 | 0.35-0.52  |     | 53  | 2.35 | 73.0  | 34  | 2.598 53 |
| -61 3539 | B1 Ia         | 65  |       |     |       |            |     |     |      |       |     |          |
| -61 3540 |               |     |       |     | 10.18 | 0.26-0.53  |     | 53  | 1.11 | 86.4  | 34  | 2.625 53 |
| -61 3540 |               |     |       |     | 10.27 | 0.23-0.59  |     | 86  |      |       |     | 2.643 86 |
| -61 3542 | O9.5II        | 2   |       |     | 9.28  | 0.78-0.22  |     | 2   |      |       |     |          |
| -61 3544 | B0.5Vn        | 65  |       |     |       |            |     |     |      |       |     |          |
| -61 3546 | B1 III:ne     | 65  |       |     |       |            |     |     |      |       |     |          |
| -61 3549 | O9 III        | 26  |       |     | 10.06 | 1.08-0.11  |     | 26  |      |       |     | 2.561 86 |
| -61 3549 |               |     |       |     | 10.13 | 1.07-0.14  |     | 86  |      |       |     |          |
| -61 3558 | B1 Vn         | 26  |       |     | 10.24 | 0.30-0.52  |     | 26  |      |       |     |          |
| -61 3566 | B0.5IV        | 65  |       |     |       |            |     |     |      |       |     |          |
| -61 3575 | O7 V          | 65  |       |     |       |            |     |     |      |       |     |          |
| -61 3576 | B1 Vn         | 26  | -19.9 | 54  | 11.46 | 0.38-0.27  |     | 25  |      |       |     |          |
| -61 3576 | B1 Vn         | 31  | -34   | 75  | 9.48  | 0.23-0.71  |     | 26  |      |       |     |          |
| -61 3576 | B0.5V         | 40  |       |     | 9.48  | 0.29-0.67  |     | 40  |      |       |     |          |
| -61 3576 | B0.5V         | 75  |       |     |       |            |     |     |      |       |     |          |
| -61 3579 | B2 V          | 26  | -37   | 25  | 10.53 | 0.22-0.65  |     | 25  |      |       |     |          |
| -61 3579 | B2 V          | 31  | -26.1 | 54  | 10.44 | 0.25-0.71  |     | 26  |      |       |     |          |
| -61 3579 | B2 V          | 40  |       |     | 10.46 | 0.24-0.67  |     | 40  |      |       |     |          |
| -61 3579 | B2 V          | 75  |       |     |       |            |     |     |      |       |     |          |
| -61 3581 | B0: V         | 26  | -22.9 | 54  | 10.12 | 0.25-0.65  |     | 21  |      |       |     |          |
| -61 3581 | B3 V          | 31  | -74   | 75  | 10.14 | 0.25-0.60  |     | 25  |      |       |     |          |
| -61 3581 | B2 V          | 40  |       |     | 10.09 | 0.27-0.66  |     | 26  |      |       |     |          |
| -61 3581 | B2 V          | 75  |       |     | 10.18 | 0.24-0.61  |     | 40  |      |       |     |          |
| -61 3587 | B1 V          | 26  |       |     | 10.73 | 0.28-0.58  |     | 26  |      |       |     |          |
| -61 3587 | O9.5V         | 31  |       |     | 10.72 | 0.30-0.54  |     | 40  |      |       |     |          |
| -61 3589 | F5 Ib         | 23  |       |     |       |            |     |     |      |       |     |          |
| -61 3598 | B2 Ib         | 26  |       |     | 10.28 | 0.83-0.17  |     | 26  |      |       |     |          |
| -61 3598 | B5 Iap        | 31  |       |     | 10.30 | 0.84-0.44  |     | 40  |      |       |     |          |
| -61 3598 |               |     |       |     | 10.29 | 0.83-0.16  |     | 86  |      |       |     |          |
| -61 3608 | B0.5Ia        | 65  |       |     |       |            |     |     |      |       |     |          |

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TABLE 2 (CONTINUED)

| STAR     | SPECTRAL TYPE | Ref | RV     | Ref | V     | B-V       | U-B | Ref | P(%) | PA    | Ref | BETA Ref |
|----------|---------------|-----|--------|-----|-------|-----------|-----|-----|------|-------|-----|----------|
| -61 3612 |               |     |        |     | 10.20 | 0.81-0.33 |     | 86  |      |       |     | 2.591 86 |
| -61 3624 |               |     |        |     | 10.44 | 0.45-0.51 |     | 86  |      |       |     | 2.608 86 |
| -61 3626 |               |     | -18.6  | 86  | 10.86 | 0.18-0.52 |     | 86  |      |       |     | 2.554 86 |
| -61 3639 | B1 Ia         | 76  |        |     | 10.07 | 0.83-0.18 |     | 76  |      |       |     |          |
| -61 3639 |               |     |        |     | 10.10 | 0.85-0.29 |     | 86  |      |       |     |          |
| -61 3692 | A0 Ia         | 70  |        |     | 9.69  | 1.32 0.24 |     | 21  |      |       |     | 2.563 86 |
| -61 3692 |               |     |        |     | 9.68  | 1.33 0.30 |     | 76  |      |       |     |          |
| -61 3692 |               |     |        |     | 9.67  | 1.34 0.19 |     | 86  |      |       |     |          |
| -61 3712 |               |     |        |     | 11.42 | 0.09-0.46 |     | 30  |      |       |     |          |
| -61 3726 | B0.5Ia-Iab    | 76  |        |     | 10.30 | 0.46-0.47 |     | 76  |      |       |     |          |
| -61 3736 | B2 IVe        | 65  |        |     | 9.94  | 0.21-0.64 |     | 53  | 2.77 | 88.9  | 34  | 2.503 53 |
| -61 3742 | F0 II         | 23  |        |     |       |           |     |     |      |       |     |          |
| -61 3760 | B0.5IIIne     | 65  |        |     |       |           |     |     |      |       |     |          |
| -61 3793 | B1 V          | 65  |        |     |       |           |     |     |      |       |     |          |
| -62 2148 |               |     |        |     | 11.59 | 0.56-0.22 |     | 86  |      |       |     |          |
| -62 2940 |               |     |        |     | 10.61 | 0.93-0.05 |     | 17  |      |       |     |          |
| -62 2940 |               |     |        |     | 10.55 | 1.05 0.01 |     | 28  |      |       |     |          |
| -62 2993 | B1 Ib         | 65  |        |     |       |           |     |     |      |       |     |          |
| -62 3006 |               |     |        |     | 10.24 | 0.63-0.35 |     | 1   |      |       |     |          |
| -62 3008 |               |     |        |     | 10.31 | 0.50-0.43 |     | 1   |      |       |     |          |
| -62 3079 | O9 IV         | 65  |        |     |       |           |     |     |      |       |     |          |
| -62 3090 | B2 IVne       | 65  |        |     |       |           |     |     |      |       |     |          |
| -62 3096 | O9 IIIIn      | 65  |        |     |       |           |     |     |      |       |     |          |
| -62 3111 |               |     |        |     | 10.20 | 0.19-0.62 |     | 53  | 2.29 | 73.7  | 34  | 2.634 53 |
| -62 3121 |               |     |        |     | 10.66 | 0.50-0.39 |     | 86  |      |       |     |          |
| -62 3141 |               |     |        |     | 10.65 | 0.49-0.46 |     | 26  |      |       |     |          |
| -62 3217 |               |     | -29.5  | 86  | 11.63 | 0.39-0.63 |     | 86  |      |       |     |          |
| -62 3242 |               |     |        |     | 11.18 | 0.58-0.43 |     | 86  |      |       |     |          |
| -62 3270 | B0 IIIIne     | 65  |        |     |       |           |     |     |      |       |     |          |
| -62 3271 | O9 V          | 65  |        |     |       |           |     |     |      |       |     |          |
| -62 3280 |               |     |        |     | 10.95 | 0.26-0.62 |     | 27  |      |       |     |          |
| -62 3280 |               |     |        |     | 10.83 | 0.30-0.41 |     | 86  |      |       |     |          |
| -62 3290 |               |     | -31.7  | 86  | 10.84 | 0.31-0.37 |     | 27  |      |       |     | 2.529 86 |
| -62 3290 |               |     |        |     | 10.63 | 0.93-0.21 |     | 86  |      |       |     |          |
| -62 3326 | B2.5II        | 65  |        |     |       |           |     |     |      |       |     |          |
| -62 3374 | O9.5IIII      | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2356 | B2 Ve         | 2   |        |     | 10.40 | 0.21-0.50 |     | 2   |      |       |     |          |
| -63 2414 |               |     |        |     | 10.52 | 0.31-0.50 |     | 53  | 2.12 | 81.9  | 34  | 2.621 53 |
| -63 2473 |               |     |        |     | 10.52 | 0.58-0.34 |     | 53  | 1.82 | 70.7  | 34  | 2.641 53 |
| -63 2474 | B1.5II        | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2484 |               |     |        |     | 10.49 | 0.33-0.57 |     | 53  | 1.88 | 76.3  | 34  | 2.629 53 |
| -63 2485 | B1 IV:n       | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2495 |               |     |        |     | 10.04 | 0.74-0.44 |     | 53  | 2.55 | 75.5  | 34  | 2.366 53 |
| -63 2501 |               |     |        |     | 10.09 | 0.54-0.43 |     | 53  | 0.35 | 86.9  | 34  | 2.591 53 |
| -63 2511 |               |     |        |     | 10.38 | 0.60-0.36 |     | 53  | 3.79 | 95.9  | 34  | 2.592 53 |
| -63 2512 | B2 III        | 31  |        |     | 9.91  | 0.50-0.48 |     | 25  | 3.52 | 93.3  | 34  | 2.588 53 |
| -63 2512 | B0.5IV        | 65  |        |     | 9.92  | 0.50-0.48 |     | 53  |      |       |     |          |
| -63 2513 | B0: III       | 2   |        |     | 9.83  | 0.65-0.27 |     | 2   | 4.67 | 96.4  | 34  | 2.605 53 |
| -63 2513 | O8            | 31  |        |     | 9.80  | 0.65-0.38 |     | 25  |      |       |     |          |
| -63 2513 | B0.5IV:       | 65  |        |     | 9.73  | 0.64-0.36 |     | 53  |      |       |     |          |
| -63 2519 | B0 III        | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2527 | O9 Ib         | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2539 | B2 V          | 31  |        |     |       |           |     |     |      |       |     |          |
| -63 2544 | B0.5Iab:      | 2   |        |     | 9.97  | 0.46-0.38 |     | 2   | 2.07 | 73.7  | 34  | 2.565 53 |
| -63 2544 |               |     |        |     | 9.97  | 0.49-0.46 |     | 53  |      |       |     |          |
| -63 2565 |               |     |        |     | 10.15 | 0.12-0.68 |     | 53  | 1.62 | 93.3  | 34  | 2.594 53 |
| -63 2593 |               |     |        |     | 10.27 | 0.25 0.04 |     | 86  |      |       |     |          |
| -63 2613 |               |     |        |     | 10.40 | 0.36-0.41 |     | 86  |      |       |     | 2.678 86 |
| -63 2662 | B0.5Vn        | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2684 | B1 Ia         | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2736 |               |     | -13.5V | 86  | 10.14 | 0.75-0.39 |     | 86  |      |       |     | 2.545 86 |
| -63 2756 |               |     |        |     | 11.14 | 0.56 0.12 |     | 27  |      |       |     |          |
| -63 2778 | B2 II         | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2789 | B2 III        | 65  |        |     |       |           |     |     |      |       |     |          |
| -63 2856 | O9.5Ib        | 65  |        |     |       |           |     |     |      |       |     |          |
| -64 1997 | B2 III        | 65  |        |     | 9.73  | 0.15-0.64 |     | 53  | 1.07 | 78.1  | 34  | 2.635 53 |
| -64 2161 |               |     |        |     | 8.06  | 0.01-0.88 |     | 53  | 1.57 | 92.0  | 34  | 2.584 53 |
| -64 2264 |               |     |        |     | 10.64 | 0.06-0.38 |     | 53  | 0.94 | 84.4  | 34  | 2.706 53 |
| -64 2428 | B2 IIIIne     | 65  |        |     |       |           |     |     |      |       |     |          |
| -64 2468 | B1 Ia         | 65  |        |     |       |           |     |     |      |       |     |          |
| -66 1860 |               |     |        |     | 10.30 | 0.10-0.69 |     | 53  | 2.53 | 113.4 | 34  | 2.609 53 |
| -66 1872 |               |     |        |     | 10.40 | 0.06-0.67 |     | 53  | 1.68 | 82.8  | 34  | 2.609 53 |
| -66 1982 | B7 Ia:        | 23  |        |     |       |           |     |     |      |       |     |          |
| -66 2047 | B9 II         | 23  |        |     |       |           |     |     |      |       |     |          |

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TABLE 2 (CONTINUED)

| STAR     | SPECTRAL TYPE | Ref | RV  | Ref  | V    | B-V       | U-B | Ref  | P(%) | PA | Ref | BETA Ref |
|----------|---------------|-----|-----|------|------|-----------|-----|------|------|----|-----|----------|
| -68 1777 | B9 Ib         | 65  |     |      |      |           |     |      |      |    |     |          |
| -69 1743 | B0.5IIIn      | 65  | -31 | : 83 | 9.45 | 0.02-0.79 | 53  | 0.88 | 96.7 | 34 |     | 2.573 53 |
| -70 1686 | B7 Ib         | 50  |     |      |      |           |     |      |      |    |     |          |

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TABLE 3  
NUMBER OF TIMES THAT EACH OF THE 770 OB  
STARS OF TABLE 1 APPEARS IN TABLE 2

| No. | ST  | RV  | UBV | Pol. | BETA |
|-----|-----|-----|-----|------|------|
| 0   | 471 | 579 | 443 | 537  | 519  |
| 1   | 166 | 161 | 216 | 205  | 227  |
| 2   | 65  | 20  | 53  | 24   | 22   |
| 3   | 25  | 4   | 26  | 4    | 1    |
| 4   | 25  | 6   | 19  | 0    | 1    |
| 5   | 6   | 0   | 7   | 0    | 0    |
| 6   | 6   | 0   | 4   | 0    | 0    |
| 7   | 3   | 0   | 0   | 0    | 0    |
| 8   | 2   | 0   | 2   | 0    | 0    |
| 9   | 0   | 0   | 0   | 0    | 0    |
| 10  | 0   | 0   | 0   | 0    | 0    |
| 11  | 1   | 0   | 0   | 0    | 0    |