

ANNALS

OF

THE ASTRONOMICAL OBSERVATORY OF HARVARD COLLEGE

VOLUME 94

THE HENRY DRAPER CATALOGUE

9^h, 10^h, AND 11^h

BY

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AND

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PREFACE.

THE lamented death of Edward C. Pickering, for forty-two years Director of this Observatory, took place on February 3, 1919. For a long time he had taken an intense interest in the preparation of the Henry Draper Catalogue. He had the great happiness of seeing its practical completion in manuscript and the publication of the early volumes. The greater happiness, to which he eagerly looked forward, of seeing the completed work in print was denied him. It is fitting that his portrait should appear as the Frontispiece of this volume.

S. I. BAILEY,

Acting Director of the Observatory of Harvard College.

CAMBRIDGE, U.S., *December 17, 1919.*

THE HENRY DRAPER CATALOGUE.

THE Henry Draper Catalogue originated in the attempt to collect in a single catalogue a description of all the stellar spectra which could be classified on the photographs of the Henry Draper Memorial. It was shown in May, 1885, that by placing a prism in front of the objective of a photographic telescope, excellent spectra could be obtained of all the stars of sufficient brightness in the field of the instrument. The immediate effect was that the photographic image of each star, instead of appearing as a point, was spread into a line, the rays of different wave lengths being diverted by the prism to different points upon the plate. These lines were then broadened into bands by giving a rate to the driving clock differing slightly from sidereal time. The principal lines in the spectra appear in these bands. The advantages of this method are, first, that the spectra of several hundred stars can be obtained on a single photograph, while with a slit spectroscope only one star can be photographed at a time. Secondly, the loss of light is so small that, even if stars are faint, satisfactory spectra can be obtained. Thirdly, the spectra can be identified with certainty, since they occupy the same relative positions on the photographs as stars on a chart plate, or map.

The classification of the spectra required for the Henry Draper Catalogue was begun by Miss Annie J. Cannon on October 2, 1911, and practically completed September 30, 1915. Some additional spectra were taken from later plates, where faint stars had not been classified previously. The total number of spectra classified is 242,093, relating to about 222,000 stars. The greater portion of the northern stars were classified from 709 plates taken with the 8-inch Draper Telescope, mounted at Cambridge. In like manner, 1,409 plates of the southern stars were used, taken with the Bache Telescope, mounted at Arequipa, Peru. Each of these instruments has, for an objective, an 8-inch Voigtländer Portrait Lens, corrected by Alvan Clark and Sons. Two prisms having angles of 13° and 5° were originally used with each instrument. They formed spectra having a dispersion such that for the 8-inch Draper Telescope the intervals between the lines $H\beta$ and $H\epsilon$ were 5.61 and 1.60 mm., respectively.

The corresponding intervals for the Bache Telescope were 5.80 and 2.23 mm. It appeared that the definition was better with the prism giving the larger dispersion attached to the 8-inch Draper Telescope, and with the prism giving the smaller dispersion attached to the Bache Telescope. For this reason, the spectra of much fainter stars could be classified from the photographs taken in Arequipa, than from those taken in Cambridge. Exceptions were made in the case of southern stars which are too dense on plates of small dispersion, and of northern stars so near together that their spectra are superposed on plates of long dispersion. Some northern stars between 0° and $+10^{\circ}$ in declination were also classified from plates of short dispersion taken in Arequipa.

In November, 1900, two prisms, having nearly equal angles of about 6° , were attached to the 8-inch Draper Telescope. They were mounted so that they could be rotated by any desired amount, which was measured by means of a graduated circle. When placed in opposite directions they nearly neutralized each other, while, when turned in the same direction, the dispersion was double that of one of the prisms. The angles adopted were such that the dispersions were the same as those previously employed, 5.61 and 1.60 mm.

A number of photographs showing fainter stars were taken with the 16-inch Metcalf Telescope. The regions selected were the centres of the Harvard Standard Regions described in H.A. 14, 477, and a few others, such as the Pleiades, Praesepe, etc. The distance between the lines $H\beta$ and $H\epsilon$ was here 3.90 mm.

On all of the plates described above, the spectra of the bright stars were dense, so that they could not be classified. Accordingly, spectra taken with a larger dispersion were used. For stars north of declination -20° , from one to four prisms were attached to the 11-inch Draper Telescope. The interval between the lines $H\beta$ and $H\epsilon$ varied from 19.63 to 80.50 mm. These spectra have already been described in H.A. 28, Part 1, but as a different system of classification was there employed by Miss Maury, the spectra were again classified by Miss Cannon. This work was extended to stars of the fifth magnitude, and a few that were fainter, by means of H.A. 56, No. 4. For the southern stars, brighter than the sixth magnitude, the spectra are taken from H.A. 28, Part 2, and H.A. 56, No. 5. From one to three prisms were employed, and the interval from $H\beta$ to $H\epsilon$ varied from 21.57 to 72.15 mm.

From August, 1885, to November, 1894, Seed 26+, from December, 1894, to December, 1899, Cramer Crown, from January, 1900, to May, 1911, Seed G. E. 27, and since June, 1911, Hammer Special plates were generally used.

Substantially the same classification has been used in all the publications of the Henry Draper Memorial, except in the case of H.A. 28, Part 1. Slight changes have

been introduced from time to time as experience showed that the classification could be improved. For instance, Class H, used in H.A. 27, has been abandoned, since it has been found that it is identical with Class K, when photographed under favorable conditions. The letters were originally applied empirically, a separate letter for each class of spectrum which appeared to be different. Later, it was found that nearly all the spectra fell into the classes B, A, F, G, K, and M, which thus formed a continuous sequence. Intermediate spectra are indicated by numbers representing tenths of the interval. Thus, A₅ represents a spectrum midway between A₀ and F₀. The numeral is omitted when a precise classification cannot be made. Class B was found to precede A, but the letters could not be reversed without causing confusion. Class P, designating gaseous nebulae, and Class O, stars of the fifth type, appear to precede Class B. The unanimous adoption of this system by an International Committee appointed by the Solar Union has secured its universal acceptance. The countries represented on this Committee were Canada, England, France, Germany, Holland, and the United States.

The designations of the lines used in describing the spectra, are generally the same as in the previous volumes. An exception is made, however, in the case of the series of lines first found in the spectrum of ζ Puppis. Professor Pickering showed these lines to be so closely represented by a modification of Balmer's formula, that he assumed them to be due to "hydrogen under conditions of temperature or pressure yet unknown," as stated in H. C. 16, January 12, 1897. The lines were therefore called "additional hydrogen lines," with the specific designations as follows: line 5411, H β' ; 4541.9, H γ' ; 4200.3, H δ' ; 4026.0, H ϵ' ; 3924.0, H ζ' ; 3860.8, H η' ; 3815.7, H θ' ; and 3783.4, ι' . Recent investigators, however, find by experiments in the laboratory that these lines are probably due to helium. They are now commonly called ζ Puppis lines and this designation is accordingly adopted here.

The classification and designation of peculiar spectra present great difficulties. Some spectra are so peculiar that they can not be assigned to any known class, and are marked Pec. in Table I. Others show deviations of various kinds and degrees, and yet resemble the typical spectra in the most essential characteristics. In the latter case, the class which the peculiar spectrum resembles most nearly is given, followed by the letter p. A description of the deviation from the typical spectrum will then be found in the Remarks following Table I. The deviations may occur in several ways, as has already been discussed in H.A. 28, 143. First, in the width of the lines. The difference in the width of the lines, especially whether the lines are diffuse or sharp, was early recognized. On September 8, 1887, the spectra of α Cygni, in which the lines are very sharp, and of α Aquilae, in which they are diffuse, were

photographed on the same plate, to prove that the difference was due to the star and not to the instrument, or condition of the air. Narrow lines will appear hazy, or even double, if the focus is poor, or the air unsteady, and a slit spectroscope is much to be preferred to an objective prism for determining this condition. Whenever the width of the lines appeared to be abnormal, it is noted in the Remarks. With the larger dispersion in H.A. 28 and 56, the deviation from the normal in the width of the lines was always noted, when certainly seen. When the lines are broad, the spectra are designated in H.A. 28, 1, by the letter "b," and in H.A. 28, 2, by Remark 18, when narrow, by the letter "c" and Remark 40, respectively. For convenience of reference, a list of bright stars in whose spectra the lines are narrow, was given in H.A. 56, 162.

Secondly, deviations may occur in the intensity of certain lines in stellar spectra. Numerous spectra in Classes A₀ to A₅, show the double silicon line, 4128.1, 4131.1 to be of increased intensity, and in other spectra the strontium lines 4077.9, 4215.7 are very strong. Lists of a few of these peculiar spectra are given in H.A. 56, 113, 161. The great intensity of these strontium lines in spectra of various classes, such as θ^1 Microscopii of Class A₂, ξ Phoenicis of Class F₀, and ζ Capricorni of Class G₅, is of interest in connection with the relation of these lines to the absolute brightness of the stars, and to the possibility of distinguishing between the so-called "giants" and "dwarfs." Numerous other lines, including those of hydrogen, have also been found to be of abnormal intensity in certain spectra. In the case of C.D.M. $-27^\circ 178$, R. A. $0^h 31^m.7$, Dec. $-27^\circ 50'$, the continuous spectrum is Class G₅, but the hydrogen lines are as strong as in Class F₅. In some spectra of Class K₅, or Ma, such as B.D. $+50^\circ 1725$, R. A. $10^h 5^m.3$, Dec. $+49^\circ 58'$, and C.D.M. $-39^\circ 14192$, R. A. $21^h 11^m.5$, Dec. $-39^\circ 15'$, several lines, including 4435 and 4455, are abnormally intense.

A third peculiarity in stellar spectra is the presence of bright, or emission, lines. At least 750 spectra are known to have bright lines. The gaseous nebulae, Class P, the Fifth Type, Class O, the P Cygni Type, and the Novae are discussed in H.A. 76, No. 3. The presence of bright lines in spectra of Class M, characteristic of long period variables, is indicated by the combination, Md. No symbol has ever been adopted to show the presence of bright lines in spectra of Class B, although the use of a suffix, such as " β " or "h," has been suggested. It seemed best, however, to continue to designate these spectra by placing the letter "p" after the class, until some definite action should be taken by the Committee on Stellar Classification. These spectra may easily be found by means of the Remarks following Table I.

The other two deviations consist in a periodic doubling of the lines in the spectrum, also indicated by the letter "p," and in the existence of the lines of two

classes of spectra completely superposed, designated composite spectra. A large part of the bright stars having composite spectra are known to be double, either visually or spectroscopically. It is assumed that this is always the case, and two lines are accordingly given to such stars.

Miss Cannon has described the classification in full in H.A. 28, 146, and more concisely in H.A. 56, 66. A classification of the gaseous nebulae is given in H.A. 76, 20. For convenience, the classification as used in the present volume is again given below.

Class Pa. Typical nebula, I.C. 418, R. A. $5^h 22^m.8$, Dec. $-12^\circ 46'$. The double line, 3726, 3729, is more conspicuous than the chief nebular lines, 5007.0 and 4959.0. The hydrogen lines $H\alpha$, $H\beta$, $H\gamma$, $H\delta$, $H\epsilon$, and $H\zeta$ are bright.

Class Pb. Typical nebula, The Great Nebula of Orion. Lines 5007.0 and 4959.0 are more intense than in Class Pa.

Class Pc. Typical nebula, I.C. 4997, R. A. $20^h 15^m.6$, Dec. $+16^\circ 25'$. Line 4363.4 is the most conspicuous. Novae usually show this line much stronger than 5007.0 when they first become nebulae.

Class Pd. Typical nebulae, N.G.C. 6826, R. A. $19^h 42^m.1$, Dec. $+50^\circ 17'$, and N.G.C. 6326, R. A. $17^h 12^m.9$, Dec. $-51^\circ 40'$. The chief nebular line, 5007.0, is the strongest line. The greater portion of the gaseous nebulae belong to this and the following class.

Class Pe. Typical nebulae, N.G.C. 7662, R. A. $23^h 21^m.1$, $+41^\circ 59'$, and N.G.C. 7009, R. A. $20^h 58^m.7$, Dec. $-11^\circ 46'$. This class differs from Class Pd in having line 4685.9 present.

Class Pf. Typical nebula, N.G.C. 40, R. A. $0^h 7^m.6$, Dec. $+71^\circ 32'$. A bright band whose centre is at 4650 is the most conspicuous portion of this spectrum and appears to ally it with spectra of Class O.

Class Oa. Typical stars, B.D. $+35^\circ 4013$, R. A. $20^h 8^m.2$, Dec. $+35^\circ 54'$, and C.P.D. $-60^\circ 2578$, R. A. $11^h 5^m.8$, Dec. $-60^\circ 26'$. A broad bright band, whose centre is at 4650, is the most conspicuous portion of these spectra. $H\gamma$ and $H\delta$ are bright, and several other bright bands are seen.

Class Ob. Typical stars, B.D. $+35^\circ 4001$, R. A. $20^h 6^m.5$, Dec. $+35^\circ 53'$, and C.D.M. $-23^\circ 4553$, R. A. $6^h 50^m.0$, Dec. $-23^\circ 48'$. A wide, bright band, whose centre is at the wave length 4686, is the most characteristic feature of these spectra. The hydrogen lines $H\beta$, $H\gamma$, and $H\delta$ are bright, and also those of the ζ Puppis series.

Class Oc. Typical stars, B.D. $+36^\circ 3987$, R. A. $20^h 13^m.3$, Dec. $+37^\circ 7'$ and C.D.M. $-41^\circ 10972$, R. A. $16^h 45^m.3$, Dec. $-41^\circ 41'$. The bands are narrower than in

Classes Oa and Ob, and two well separated lines are seen at 4686 and 4638, the former being twice as bright as the latter. The hydrogen lines are bright, and also the lines of the ζ Puppis series. No dark lines are seen.

Class Od. Typical stars, ζ Puppis and λ Cephei. All lines are dark except 4686 and 4638, which are bright. Seven dark lines of the ζ Puppis series have been photographed. The helium line, 4471.6, is present but very faint in ζ Puppis. Several faint, dark lines between $H\beta$ and $H\gamma$ are seen in the spectrum of λ Cephei, but not in that of ζ Puppis.

Class Oe. Typical star, 29 Canis Majoris, R. A. $7^h 14^m.5$, Dec. $-24^\circ 23'$. The spectrum resembles that of ζ Puppis in having all lines dark except 4686 and 4638. Numerous helium and other dark lines are present. Line 4097.5, sometimes attributed to silicon, and the silicon line, 4089.0 are at their maximum intensity.

Class Oe5. Typical star, τ Canis Majoris, R. A. $7^h 14^m.5$, Dec. $-24^\circ 47'$. All the lines are dark. This spectrum is clearly intermediate between those of Classes Oe and Bo. It resembles those of Class Oe in the presence and intensity of the ζ Puppis series, and those of Class Bo with respect to the helium lines. No bright bands are seen, but the strong dark lines 4649.3 and 4685.9 are present.

Class Bo. Typical star, ϵ Orionis. The hydrogen lines are 0.3 as intense as in the spectrum of α Canis Majoris. The ζ Puppis series is present, but much fainter than in Class Oe5. Oxygen lines are strong. Line 4649.3 is slightly more intense than the helium lines 4026.3 and 4471.6, which are equally strong. The triplet, 4070.0, 4072.5, and 4076.1, is well marked. Lines 4649.3, 4116.3 and 4089.0, reach their greatest intensity in this class and decrease very rapidly in succeeding classes of spectra.

Class B1. Typical stars, β Canis Majoris and β Centauri. The hydrogen lines are seen from $H\beta$ to $H\gamma$. The ζ Puppis series is not distinctly seen. The lines of helium are more intense while the silicon and oxygen lines are fainter than in Class Bo. Line 4471.6 exceeds 4649.3, while 4121.0 exceeds 4116.3, in intensity.

Class B2. Typical stars, γ Orionis and α Lupi. The lines of helium are at their maximum intensity in this and the following class. Line 4116.3 is not seen, and lines 4089.0 and 4649.3 are faint.

Class B3. Typical stars, π^4 Orionis and α Pavonis. The hydrogen lines are about 0.5 as intense as in α Canis Majoris. The helium lines, while not stronger than in Class B2, are more prominent, due to the disappearance or extreme faintness of the lines, 4070.0, 4072.5, 4076.1, 4089.0, 4116.3 and 4649.3. Helium lines having the greatest intensities are 3819.8, 4009.4, 4026.3, 4143.9, 4388.1, 4471.6, and 4922.1.

Class B5. Typical stars, η Tauri and ϕ Velorum. These spectra show an advance towards Class A0 in the increased intensity of the calcium line, K, and of the double silicon line 4128.1, 4131.1, which is stronger than the helium line 4121.0, and fainter than 4143.9. Line 4481.3 is 0.7 as intense as 4471.6.

Class B8. Typical stars, β Persei and γ Gruis. The helium lines 4026.3 and 4471.6 are present, together with several lines prominent in the spectra of Class A0. Lines 4471.6 and 4481.3 are approximately equal. Line K is less intense than 4026.3.

Class B9. Typical stars, λ Aquilae and λ Centauri. The spectrum is nearly like that of Class A0, except that 4026.3 is seen and the line K is somewhat fainter than in Class A0.

Class A0. Typical star, α Canis Majoris. The hydrogen lines are at their maximum intensity, and line K is 0.1 as intense as H δ , or less. On plates having sufficient dispersion, the calcium line H, at 3968.6, is separated from H ϵ , 3970.3, and is nearly as intense as line K. Line 4481.3 is the strongest except the hydrogen lines and line K. On a photograph taken with the 13-inch Boyden Telescope, with the dispersion of three prisms, 93 solar lines were measured.

Class A2. Typical stars, δ Ursae Majoris and ι Centauri. The line K is 0.3 or 0.5 as intense as H δ . Solar lines are well marked, especially lines 4481.3, 4226.9, and 4233.8. The two latter form a nearly equal pair. No helium lines are seen in this, or any following class.

Class A3. Typical stars, α Piscis Austrini, and τ^3 Eridani. The line K is more than 0.5 as intense as the compound line H and H ϵ , and is 0.8 as intense as H δ . The metallic lines are more numerous and more intense than in Class A2, while the hydrogen lines are slightly fainter.

Class A5. Typical stars, β Trianguli and α Pictoris. The line K is 0.9 as intense as the compound line H and H ϵ , and more intense than H δ . Line 4481.3 is no longer the most conspicuous among the solar lines. Lines 4299.4, 4300.7, and 4302.7 are well marked.

Class F0. Typical stars, δ Geminorum and α Carinae. The lines of hydrogen are about 0.5 as intense as in α Canis Majoris. The line K is as strong as the compound line H and H ϵ , and about 3.0 as intense as H δ . The lines 4305.6, 4308.0, and 4309.5 and other lines which form the absorption band called G by Fraunhofer, are faint and inconspicuous.

Class F2. Typical star, π Sagittarii. This spectrum resembles Class F0, except that there is more appearance of continuity in the band G, due to increased strength of lines 4305.6 to 4315.2.

Class F₅. Typical stars, α Canis Minoris and ρ Puppis. The hydrogen lines are 2.0 as intense as in the Sun, and metallic lines are fainter and less numerous. Line 4325.9 is about 0.1 as strong as H γ . On plates with small dispersion, the Fraunhofer band G appears to be nearly continuous from 4299.4 to 4315.2. The compound line 4308.0 and 4309.5 is more intense than 4315.2. Line 4226.9 is well marked among the numerous lines, but is not 0.5 as strong as H γ .

Class F₈. Typical stars, β Virginis and α Fornacis. The spectrum resembles that of the Sun, except that the hydrogen lines are stronger, and a few of the metallic lines are fainter.

Class G₀. Typical stars, α Aurigae and β Hydri. The spectrum closely resembles that of the Sun. The hydrogen lines are no longer conspicuous as a series of lines. H γ is 1.5 as intense as 4325.9, and 3.0 as intense as the adjacent line, 4337.7, when the dispersion is sufficient to show the two lines separately. The lines 4076.8 to 4077.9, H δ , and 4226.9 are nearly equal in intensity. The band G is continuous on photographs taken with one or two prisms. The continuous spectrum shows no very marked changes in the distribution of light, from H β to H ϵ , although there is a slight gradual decrease from H γ to H ϵ . The bands H and K are very conspicuous.

Class G₅. Typical stars, κ Geminorum and α Reticuli. The hydrogen lines are slightly fainter than in Class G₀. H γ when combined with 4337.7 is equal to 4325.9; when separated, H γ is fainter than 4325.9. Several spaces appear brighter than adjacent portions, and in the distribution of light there is a decided advance towards Class K₀.

Class K₀. Typical stars, α Bootis and α Phoenicis. The hydrogen lines are fainter than in Class G₅ and the light of the continuous spectrum shows a decided decrease from H γ to H ϵ . H γ is about 0.5 as strong as 4325.9. Line 4226.9 is 3.0 as intense as in Class G₀. Bands H and K reach their greatest intensity. Line 4226.9 is 2.0 as intense as the compound line 4172 and nearly 3.0 as intense as lines 4383 to 4385. The band G, extending from 4299 to 4315 is continuous and is more conspicuous than line 4226.9. Several portions appear brighter than adjacent parts, such as from 4077.9 to H δ , 4215.7 to 4226.9, 4470 to 4525 and 4614 to 4648, approximately.

Class K₂. Typical stars, β Cancri and ν Librae. The spectrum resembles Class K₅ in the increased intensities of several lines, as 4226.9, and a general faintness of the continuous portion towards the end of shorter wave length. The band G is still continuous.

Class K₅. Typical star, α Tauri. The bands H and K and line 4226.9 are the most conspicuous absorption lines. The band G is no longer continuous, owing to

the disappearance of several of the fainter lines. The double lines 4383 to 4385 and 4405 to 4408, form a conspicuous pair, of which the one of shorter wave length is somewhat stronger. Faint breaks in the light are seen at the wave lengths 4762, 4954, and 5168, which are the beginning of the absorption bands of Class M. There is also a sudden diminution in light at $H\beta$, which is nearly as well marked as the similar change at 4762.

Class Ma. Typical stars, α Orionis and γ Hydri. The spectrum is banded. The bands extending from 4762 to 4954 and from 5168 to 5445 are well marked. The change in light at $H\beta$ is much less conspicuous than at 4762. Several bright spaces are seen, such as from 4556 to 4586, and from 4657 to 4668. The lines of the G band are well separated, and line 4315.2 is very faint. Line 4226.9 is the most conspicuous absorption line. The spectrum is faint towards the end of greater wave length, so that bands H and K are generally barely seen.

Class Mb. Typical stars, ρ Persei and γ Crucis. The edges of the absorption bands, at wave lengths 4762, 4954, 5168, and 5445 are strong and appear somewhat like bright bands. These bands fade gradually towards the edge of shorter wave length. Line 4226.9 is very wide and sometimes appears to be as intense as $H\delta$ in the spectrum of α Canis Majoris. Conspicuous bright bands of equal intensity are seen from 4556 to 4586 and from 4614 to 4626. Lines 4299.4, 4300.7, and the compound line 4305.6, 4308.0 and 4309.5 are the only well marked lines remaining of the band G. On isochromatic plates, absorption bands are also seen having edges at the wave lengths 5763, 5816, and 5857, approximately.

Class Mc. Typical stars, W Cygni and RX Aquarii. The continuous spectrum is fainter, and the bright edged bands are stronger, than in Classes Ma and Mb, so that the spectrum appears to be of a fluted character, and on plates of small dispersion many of the dark lines seem to have disappeared.

Class Md. Typical stars, χ Cygni and o Ceti. This designation is used for spectra of any division of Class M, in which at least one hydrogen line is bright. The greater portion of the variable stars of long period have this class of spectrum. The spectra differ widely. Either $H\beta$, $H\gamma$, or $H\delta$ may be the strongest bright line, while the underlying spectrum may belong to Class Ma, Mb, or Mc. The subject is further complicated by changes in the relative intensity of the hydrogen lines and probably in the class of spectrum, connected with the variation in the light of the star. As an example, the spectrum of 154615, R Serpentis, may be cited. On April 25, 1912, the bright line, $H\delta$, was seven times as intense as $H\gamma$, while on April 18, 1914, the two lines were of nearly the same intensity. On the first date, the star was of the ninth magnitude, and the phase was 40 days before maximum. On the

second date, the star was at maximum light, about the sixth magnitude. It is evident that no accurate subdivision of these spectra can be made until observations have been obtained at different points on the light curve. It has therefore seemed best to use the designation Md without numeral, in Table I, and to give additional facts, such as the intensities of the bright hydrogen lines, assuming $H\gamma$ to be equal to 10, in the Remarks. Several spectra which have hitherto been called Md1 or Md2, in which $H\beta$ is the strongest bright line, are found to be peculiar and are designated Pec. in Table I. The variable stars R Andromedae, U Cassiopeiae, S Cassiopeiae, R Lyncis, R Canis Minoris, T Geminorum, and R Cygni may be given as examples. These spectra do not show the titanium bands having bright edges at 4762, 4954, and 5168 as in all divisions of Class M, but more nearly resemble the spectrum of π^1 Gruis, which may be placed in a subdivision of Class R, assuming some peculiarities.

Class R. This letter was assigned in 1908, to a few spectra which on photographs of small dispersion, resemble those of Class N between $H\beta$ and $H\gamma$, but which contain so much blue light that the spectrum is visible as far as the calcium bands, H and K. A list of spectra assigned at that time to Class R is given in H. C. 145. A careful study of these spectra shows that they may be subdivided into at least three classes, which are described below.

Class Ro. Typical star, S.D. $-10^\circ 5057$, ptm. magn. 7.04, R. A. $19^h 17^m.6$, Dec. $-10^\circ 54'$. The distribution of light resembles that in Class G5 or Ko, and the absorption bands H and K, are well seen. The dark carbon band at 4700 is wide and strong, and the dark band 4395 is about equal to Fraunhofer's G band. Lines 4226.9, 4233.8, 4236.1, and 4239.0 are well marked, and on photographs having small dispersion the appearance at this region is that of a wide, continuous band of absorption. Some spectra have been found during observations for this catalogue, which may be considered to be intermediate between the spectra of Classes K and Ro. One of the best examples is the spectrum of the star S.D. $-19^\circ 3634$, ptm. magn. 8.7, R. A. $13^h 1^m.1$, Dec. $-19^\circ 31'$. This spectrum contains the wide band of absorption near 4227 as in Class Ro, and a fainter band at 4700. Other peculiar spectra of Class K show the same bands in more or less marked degree, as stated in the Remarks.

Class R3. Typical star, B.D. $+5^\circ 5223$, ptm. magn. 8.8, R. A. $23^h 44^m.0$, Dec. $+5^\circ 50'$. The H and K bands of calcium are visible, but they are fainter than in Class Ro, and the continuous spectrum between these bands and $H\gamma$ is not more than 0.5 as intense as in Class Ro.

Class R5. Typical star, S.D. $-3^\circ 1685$, ptm. magn. 7.5, R. A. $6^h 56^m.1$, Dec. $-3^\circ 6'$. In the region of shorter wave length than 4240, the continuous spectrum is barely

visible on plates of normal exposure. When the dispersion is small, the spectrum appears to consist of three wide bright bands, whose centres are at the approximate wave lengths, 4300, 4400, 4840, and whose intensities are estimated to be 3, 6 and 10, respectively.

Class R8. Typical star, B.D. $+61^{\circ} 667$, ptm. magn. 7.92, R.A. $3^h 57^m.2$, Dec. $+61^{\circ} 31'$. The spectrum is very faint from 4240 to the violet, so that on photographs of long dispersion, it is difficult to distinguish between this Class and Class Na.

Class Na. Typical star, 19 Piscium, B.D. $+2^{\circ} 4709$, var., R. A. $23^h 41^m.3$, Dec. $+2^{\circ} 56'$. The spectrum is visible as far towards the violet as the bands H and K, but the portion between 4240 and K is even fainter than in Class R8. When the dispersion is short, the dark band 4700 separates the spectrum into two wide bright bands, the portion from 4400 to 4700 being estimated as 0.8 as intense as that from 4700 to 5100. According to this estimate of the distribution of light, spectra of this class may be designated 0, 8, 10, when compared with those of Class R5, in which the bands were estimated as 3, 6, 10.

Class Nb. Typical star, B.D. $+67^{\circ} 350$, ptm. magn. 7.39, R. A. $4^h 40^m.8$, Dec. $+67^{\circ} 59'$. This spectrum may be designated 0, 6, 10, when the distribution of light is considered. The bright portion from 4400 to 4700 is now only 0.6 as intense as the portion of greater wave length than 4700.

The spectra of some very red stars have recently been obtained with the 24-inch Reflector, using plates stained with pinacyanol or dicyanin. Some examples are the spectra of the variable stars, VX Andromedae, and S Cephei, and also of the stars R. A. $6^h 33^m.3$, Dec. $+22^{\circ} 42'$, and $+49^{\circ} 3673$, R. A. $21^h 51^m.5$, Dec. $+50^{\circ} 1'$. These spectra show no light of shorter wave length than $H\beta$, and probably form later subdivisions of Class N, but it seems wiser to wait until a larger amount of material has been collected, before assigning definite letters to these very peculiar spectra. In the meantime, the facts so far observed are given in the Remarks.

Pec. All spectra which can not be assigned to any known class, considering their principal characteristics. This includes the spectra of Novae, a few variables, very red stars, and some others.

Con. Spectra apparently continuous. This includes the spectra of nebulae without bright lines, or of clusters which resemble such nebulae with the dispersion employed. As these objects appear as surfaces, and objective prisms are used, dark lines would not be visible. Neb. or Cl. is then given in the magnitude column according to the description of the object in H.A. 60, 8.

Table I contains 27,081 stars, between $9^h 00^m.0$ and $12^h 00^m.0$, whose spectra have been classified. A description of each column of the table is given below, preceded by its heading.

H.D. A number for reference, to be added to the number in heavy type at the top of the first column. It is recommended that these numbers be preceded by the letters H.D., indicating the Henry Draper Catalogue, when reference is made to their designations in this catalogue. Thus, the first star on page 17 may be referred to as H.D. 77,901. This notation also conforms to the designations H.A., H.B., and H.C., which are already in use to denote the Harvard Annals, Bulletins, and Circulars, respectively. In like manner, H.N., H.P., H.R., H.S., and H.V. are used to designate the Harvard Nebulae, Photometry, Revised Photometry, Standard Regions, and Variables, respectively.

DM. The number of the star in the Zone of the Bonn Durchmusterung, when its position for 1855 was north of declination -23° . For stars south of this limit, and whose declination in 1875 was north of -52° , the Cordoba Durchmusterung, and for stars south of -52° , the Cape Photographic Durchmusterung, was used. The number of the zone is generally the same as the degree of declination given in the fourth column. When they differ, owing to precession, the number is placed in Italics. The number of the nearest zone is then to be substituted. For stars between 6^h and 18^h of right ascension, the nearest zone is always the northern, for other stars, the southern.

Nearly twelve hundred of these stars are not contained in the Bonn, Cordoba, or Cape Durchmusterungs. They are indicated by the absence of a number in the second column. The spectra of these stars were generally classified from plates taken with the 16-inch Metcalf Telescope.

R. A. 1900. The minutes and tenths of the right ascension for 1900. The right ascension of the first star is given in heavy face figures at the top of the table to the right. These positions are only approximate. Owing to the large number of stars in the Catalogue, they will fall into groups, each containing a number of stars whose right ascension is the same in this table. They are then arranged in the order of declination, the northern star being placed first. It may accordingly happen that, when two stars are near together, the preceding one, as shown by its number in the Durchmusterung, may here follow the other.

Dec. 1900. The declination for 1900, expressed in degrees and minutes.

Ptm. The photometric magnitude. This is taken from H.A. 50 or 54, for stars contained in those works, and is given to hundredths of a magnitude. For other stars, which are north of -62° , the magnitude in the Bonn or Cordoba Durchmusterung is used after reducing it to the photometric scale by means of the tables, given in H.A. 72, 214, 245, and H.A. 80, 132. The magnitudes are then given only to tenths. The magnitudes of stars south of -62° , and which are, therefore, not

contained in the Cordoba Durchmusterung, are also given only to tenths, and are derived from the photographic magnitudes given in the next column, by subtracting the color index depending on the class of spectrum. The color index is taken from H.A. 80, 151, and has the values for B₀, -0.24; B₁, -0.22; B₂, -0.19; B₃, -0.17; B₅, -0.12; B₈, -0.05; B₉, -0.02; A₀, 0.00; A₂, +0.06; A₃, +0.08; A₅, +0.14; F₀, +0.28; F₂, +0.34; F₅, +0.42; F₈, +0.50; G₀, +0.56; G₅, +0.78; K₀, +1.00; K₂, +1.07; K₅, +1.18; M, +1.35.

Ptg. The Photographic Magnitude. For stars north of declination -19° , in 1875, the magnitudes are derived from the photometric magnitudes, contained in the preceding column, by adding the correction for the class of spectrum given above. For stars south of -19° , the magnitude is taken from the Cape Durchmusterung, first reducing it to the standard scale as described in H.A. 80, 256. It will be noticed that when either the photometric or photographic magnitudes are derived by means of the color index, they are placed in Italics. In the first case, the color index is subtracted, in the second, added. This method is unsatisfactory from its indirectness, but no direct measures are known to exist.

Sp. The Class of Spectrum. A description of the adopted classification will be found on page 5.

Int. The photographic intensity of the spectrum as estimated by Miss Cannon when she observed it. The faintest spectra which could be classified with certainty were estimated as 1, the densest as 10. When a spectrum was too dense to be classified, it was looked for on a plate showing less faint stars. This might be due to a greater dispersion, a larger load on the pendulum of the control clock, a hazy night, or a slower emulsion.

Rem. Remarks are here indicated which furnish much additional information. The letter R refers to additional facts regarding the star, to be found in the Remarks following Table I. When two figures are given they show that the spectrum was classified on another plate. The first figure indicates, in tenths of the interval between two classes, how much the second classification differs from the first. Thus, if the class in column Sp. was F₀, and the spectrum was again estimated F₀, the first figure would be 0; if the second classification was F₅, it would be 5 and if A₅, it would be 5. The average value of the differences of the first 100 of these is ± 0.13 . A comparison of the classification of spectra taken at the Yerkes, Lick, Allegheny, and Mt. Wilson Observatories with those made here is contained in H.A. 56, 263, and gives the average difference ± 0.14 . When the residual was greater than 5, an estimate on a third plate was made, if practicable. If not, the spectra were re-examined. In case one observation appeared to be wrong, it was rejected,

and the facts are given in the Remarks. The second figure indicates the intensity on the second plate. If the spectrum was estimated on a third plate, a hyphen is inserted, and the estimates will be published later. When the estimates of the class differ, the most reliable one is given in Column Sp. The intensities serve to decide which is most likely to be correct; the order of precedence being 6, 5, 7, 4, 8, 3, 2, 9, 10, 1. When the column is not wide enough for a complete remark, it is given in full in the remarks following Table I.

Pl. No. The number of the plate in its series. The letter b indicates that the instrument used was the 8-inch Bache Telescope; the letter c, the 11-inch Draper Telescope; i, the 8-inch Draper Telescope; m, the 16-inch Metcalf Telescope. When the spectrum was taken from H.A. 28, 56, or 76, the volume and page are given and when derived from an unpublished manuscript, the letter M is inserted, instead of the plate number.

Table I is followed by a series of Remarks which give much additional information regarding the individual stars. They include the Bayer designation, additional information regarding the spectrum when it is peculiar, and the position and magnitude of adjacent stars when it is probable that they affect the spectrum. When the stars differ only in declination the spectra are superposed, while equal differences in right ascension are shown at the edges of the spectra. In the case of variable stars, the designation by letter and constellation, and the class are given. Novae are designated by I, long period variables by II, irregular variables by III, short period variables by IV, and Algol variables by V. The magnitude at maximum and minimum, and the period are also given. Parallaxes of $0''.1$, or more, are inserted from a manuscript copy of a Catalogue of Stellar Parallaxes which is being prepared by Professor Schlesinger. Proper motions of $1''$, or more, are inserted from the list given by van Maanen in A. P. J. 41, 187.

As an example of the facts that can be derived from Table I, it appears that the first star on page 17, H. D. 77,901, is C. DM. $-40^{\circ} 4866$, R. A. $9^h 0^m.1$, Dec. $-40^{\circ} 27'$ (1900). Its magnitude on the photometric scale is 9.6. From the table in H.A. 72, 217, it appears that its magnitude in the Cordoba Durchmusterung is 9.1. Its photographic magnitude is 10.0, found by reducing the magnitude 9.4, in the Cape Photographic Durchmusterung, to the standard scale as described in H.A. 80, 256. The intensity is 1. The observation was made on B 39925, taken with the 8-inch Bache Telescope.

TABLE I.
THE HENRY DRAPER CATALOGUE.

77800

8^h 59^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1482	59.6	+51 3	8.6	9.4	G5	3	..	3824oi	51	4868	59.8	-46 37	10.2	9.8	Ao	2	..	38415b
2	1914	59.6	+41 27	9.4	10.4	Ko	1	..	38639i	52	4368	59.8	-48 7	8.8	9.1	B8	4	R	38415b
3	1963	59.6	+11 58	8.6	9.4	G5	3	..	38198i	53	4367	59.8	-48 35	10.2	9.4	Ao	3	..	38415b
4	2159	59.6	+ 8 13	9.1	9.1	Ao	2	..	38198i	54	3784	59.8	-50 10	8.6	9.7	K5	3	..	38415b
5	2193	59.6	- 2 5	9.12	9.18	A2	7	..	19392b	55	852	59.8	-70 27	9.1	9.5	F5	3	..	21452b
6	2732	59.6	-17 18	9.2	10.2	Ko	2	..	46198b	56	1965	59.9	+42 7	8.7	9.0	F2	2	..	38639i
7	6015	59.6	-32 30	9.7	10.2	Ko	1	..	40081b	57	1899	59.9	+16 17	9.3	9.3	Ao	5	..	5396m
8	5707	59.6	-33 19	9.7	9.6	A5	2	..	40081b	58	2231	59.9	+ 1 26	8.2	9.2	Ko	2	..	37606i
9	5179	59.6	-38 54	10.1	10.0	Ao	1	..	39925b	59	2779	59.9	-12 52	8.2	8.2	Ao	7	..	19016b
10	4856	59.6	-40 35	9.9	10.0	F8	1	..	39925b	60	2610	59.9	-19 41	8.5	8.6	Fo	5	..	13144b
11	4882	59.6	-43 44	10.2	10.2	Ko	1	..	38418b	61	6210	59.9	-27 12	9.1	10.1	G5	1	..	24494b
12	5072	59.6	-44 59	9.39	8.7	Ao	3	..	19156b	62	6867	59.9	-31 47	9.6	9.6	F5	2	..	40081b
13	4613	59.6	-47 37	10.0	9.8	F2	2	..	38415b	63	5322	59.9	-35 57	9.9	10.1	Go	1	..	39925b
14	4072	59.6	-49 52	10.5	10.2	Ko	1	..	38415b	64	5419	59.9	-37 48	8.0	8.9	G5	3	..	13055b
15	3441	59.6	-51 23	10.2	9.9	A	1	..	40275b	65	4075	59.9	-49 18	7.3	8.7	Ko	8	..	38415b
16	954	59.6	-66 56	10.1	10.1	Ao	3	..	21452b	66	4076	59.9	-49 51	9.4	9.6	F5	3	..	38415b
17	362	59.7	+75 29	9.00	9.28	Fo	3	..	37714i	67	3785	59.9	-50 46	8.4	9.1	F8	5	..	38415b
18	1218	59.7	+59 17	7.6	8.6	Ko	3	..	37705i	68	3450	59.9	-51 57	9.6	9.4	A3	2	..	40275b
19	1309	59.7	+53 23	7.57	8.35	G5	3	..	37705i	69	1911	59.9	-55 13	8.61	8.9	Go	3	5,2	40275b
20	1472	59.7	+46 34	8.7	9.7	Ko	1	..	38639i	70	998	59.9	-69 23	8.3	8.8	F8	6	..	21452b
21	1908	59.7	+36 49	9.1	9.5	F5	1	..	37345i	71	293	59.9	-81 49	8.9	9.0	A5	4	..	20869b
22	1865	59.7	+29 7	8.7	9.1	F5	2	..	38630i	72	81	59.9	-88 16	9.2	10.3	K2	2	..	22578b
23	2025	59.7	+14 39	8.99	9.99	Ko	4	0,1	5396m	73	2037	0.0	+13 9	9.9	10.9	Ko	2	..	5396m
24	2532	59.7	- 4 12	8.7	8.7	Ao	3	..	19226b	74	2138	0.0	+ 2 48	7.21	7.27	A2	7	..	37606i
25	2685	59.7	-15 32	8.7	9.8	K2	2	..	18995b	75	2196	0.0	- 1 16	8.9	9.3	F5	3	..	19392b
26	2681	59.7	-21 35	8.6	10.1	Ko	1	..	13144b	76	2562	0.0	- 3 36	8.2	8.6	F5	7	..	19226b
27	6694	59.7	-26 20	8.2	8.9	Ao	4	..	24494b	77	2533	0.0	- 4 17	8.2	9.2	Ko	3	..	19226b
28	7085	59.7	-29 54	9.3	9.3	G5	2	..	24494b	78	2757	0.0	-13 19	9.2	9.8	Go	2	..	18995b
29	4918	59.7	-42 23	9.8	9.2	Ko	3	..	38418b	79	2679	0.0	-16 51	7.6	7.9	F2	8	..	13154b
30	3445	59.7	-51 27	9.2	9.6	A5	3	..	40275b	80	6869	0.0	-31 16	9.9	10.1	A	1	..	40081b
31	1837	59.7	-57 23	9.1	9.4	A	1	..	41151b	81	5321	0.0	-36 21	7.09	7.7	F5	8	..	13055b
32	997	59.7	-69 46	7.8	8.2	F5	3	..	24527b	82	5191	0.0	-38 25	8.4	8.9	Ko	2	..	13055b
33	506	59.8	+69 37	7.74	9.09	Ma	4	..	37706i	83	4374	0.0	-48 17	9.2	9.1	Go	4	..	38415b
34	689	59.8	+65 42	9.4	10.2	G5	2	..	37517i	84	1987	0.0	-55 2	9.01	8.5	Ao	4	1,3	40275b
35	2041	59.8	+23 27	8.7	9.7	Ko	2	..	38173i	85	985	0.0	-64 24	8.9	8.9	B9	5	..	21452b
36	2153	59.8	+19 49	7.95	8.37	F5	4	..	37607i	86	957	0.0	-66 24	9.2	9.2	Ao	5	..	21452b
37	1898	59.8	+16 18	8.6	9.6	Ko	5	..	5396m	87	879	0.0	-68 17	5.82	7.6	K5	..	0,7	56,126
38	2194	59.8	- 1 49	8.6	9.8	K5	3	..	19392b	88	152	0.0	-86 51	9.6	9.6	Ao	3	..	15145b
39	2778	59.8	-12 40	9.6	9.7	A2	2	..	19016b	89	1364	0.1	+56 31	8.8	9.6	G5	2	..	37705i
40	2678	59.8	-16 54	9.6	9.9	Fo	2	..	46198b	90	1362	0.1	+52 3	7.33	8.33	Ko	5	..	3824oi
41	8030	59.8	-23 51	7.6	8.0	A3	7	..	13144b	91	1637	0.1	+47 32	9.0	9.6	Go	2	..	3824oi
42	7086	59.8	-29 22	8.6	8.8	A5	3	..	24494b	92	2004	0.1	+17 47	7.95	8.01	A2	5	..	37607i
43	6860	59.8	-31 31	9.0	9.6	Ko	2	..	40081b	93	1975	0.1	+15 12	9.0	9.6	Go	4	..	5396m
44	5187	59.8	-38 38	8.6	9.2	F8	3	..	13055b	94	2563	0.1	- 3 23	7.42	8.49	K2	5	..	19226b
45	5186	59.8	-39 4	9.2	9.7	A2	3	..	39925b	95	2534	0.1	- 4 14	9.2	9.3	A5	2	..	19226b
46	5118	59.8	-39 44	10.3	9.5	Fo	1	..	39925b	96	2706	0.1	- 6 1	9.7	10.0	F2	1	..	19231b
47	5121	59.8	-39 49	8.9	9.7	K2	1	..	39925b	97	6873	0.1	-31 27	9.9	10.1	A	1	..	40081b
48	4762	59.8	-41 52	8.9	8.5	G5	5	..	38418b	98	6021	0.1	-33 1	9.6	9.6	F5	1	..	40081b
49	4885	59.8	-43 40	9.4	8.8	Ao	4	..	38418b	99	5196	0.1	-38 36	10.9	10.3	A5	1	..	39925b
50	5073	59.8	-44 31	10.5	9.4	A2	1	..	38418b	100	5195	0.1	-38 54	10.4	9.9	A2	1	..	39925b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4866	<i>m.</i> o.i	o -40 27	9.6	10.0	K2	1	..	39925b	51	2544	<i>m.</i> o.4	o -11 17	9.7	11.1	Ma	1	..	18995b
2	4765	o.i	-41 10	7.2	8.2	G5	6	..	38418b	52	2784	o.4	-12 42	8.4	8.9	F8	5	..	19016b
3	4869	o.i	-46 39	10.9	9.8	A2	2	..	38415b	53	2688	o.4	-15 36	9.5	10.3	G5	1	..	46198b
4	4870	o.i	-47 1	7.8	7.5	B5	7	..	38415b	54	2565	o.4	-18 56	8.6	8.6	B9	4	..	13154b
5	4079	o.i	-49 44	9.1	9.3	Ao	5	..	38415b	55	2687	o.4	-21 39	9.1	9.8	G5	1	..	13144b
6	3454	o.i	-51 39	10.2	9.9	A2	1	..	40275b	56	6854	o.4	-25 16	8.34	8.6	F5	5	..	13144b
7	2072	o.i	-53 9	6.48	7.0	B9	10	..	40275b	57	4870	o.4	-40 26	9.0	8.9	B9	4	..	39925b
8	1913	o.i	-55 47	8.3	8.8	Ao	6	2,3	40275b	58	4894	o.4	-43 27	9.2	9.6	K5	2	..	38418b
9	958	o.i	-66 19	9.5	9.6	A2	4	..	21452b	59	4382	o.4	-48 10	9.4	9.4	B	2	R	38415b
10	777	o.i	-71 46	8.4	9.4	Ko	2	..	21452b	60	4381	o.4	-48 14	9.8	9.1	Ao	5	..	38415b
11	363	o.2	+75 35	8.97	9.97	Ko	2	..	37714i	61	3790	o.4	-50 46	9.8	10.2	K2	1	..	38415b
12	2200	o.2	+38 51	4.71	5.49	G5	..	0,10	56,86	62	2074	o.4	-54 1	8.9	9.8	K5	1	..	40275b
13	1968	o.2	+21 27	8.7	9.7	Ko	1	..	37607i	63	1841	o.4	-58 0	8.4	9.4	K5	1	..	41151b
14	2566	o.2	- 3 54	9.2	9.3	A2	5	..	19226b	64	1063	o.4	-66 6	8.9	9.2	Fo	5	..	21452b
15	2733	o.2	- 9 44	7.26	7.40	A5	8	..	18995b	65	960	o.4	-66 48	10.1	10.7	Go	1	..	21452b
16	2543	o.2	-11 18	8.2	9.3	K2	6	..	18995b	66	507	o.5	+69 18	9.8	10.6	G5	2	..	37706i
17	2686	o.2	-15 33	9.7	10.5	G5	2	..	46198b	67	1999	o.5	+38 40	6.59	6.87	Fo	..	5,6	56,86
18	2780	o.2	-21 0	8.6	10.2	K5	1	..	13144b	68	1938	o.5	+35 44	8.7	9.2	F8	1	..	37345i
19	6022	o.2	-32 24	9.4	10.5	K2	1	..	40081b	69	1806	o.5	+33 45	7.9	8.0	A2	3	..	37345i
20	6023	o.2	-32 43	7.5	7.5	Fo	7	..	40081b	70	2785	o.5	-12 31	8.6	9.1	F8	3	..	19016b
21	5548	o.2	-34 39	7.9	8.6	Ao	6	..	40081b	71	2759	o.5	-13 56	9.2	9.3	A3	2	..	19016b
22	5421	o.2	-37 44	9.4	9.2	B8	3	..	13055b	72	2689	o.5	-15 16	9.9	10.3	F5	2	..	46198b
23	5198	o.2	-38 58	9.8	9.9	Ao	2	..	39925b	73	2785	o.5	-20 44	9.0	9.6	Go	2	..	18977b
24	4874	o.2	-46 29	9.8	9.9	Ko	1	..	38415b	74	5722	o.5	-34 2	10.0	10.1	Go	1	..	40081b
25	4619	o.2	-47 32	8.8	8.7	A5	4	..	38415b	75	5334	o.5	-35 51	10.2	10.4	Ko	1	..	39925b
26	4080	o.2	-49 21	8.4	9.0	Ao	7	..	38415b	76	5429	o.5	-37 17	10.0	10.1	F5	1	..	39925b
27	3786	o.2	-50 54	8.4	9.4	Ko	3	..	38415b	77	5203	o.5	-38 36	10.0	10.0	Ao	2	..	39925b
28	959	o.2	-67 5	8.4	9.0	Go	2	..	21452b	78	4880	o.5	-46 9	10.2	9.8	F8	2	..	38415b
29	1638	o.3	+47 33	8.6	9.2	Go	3	..	38240i	79	4384	o.5	-49 2	10.0	9.7	Go	2	..	38415b
30	1998	o.3	+38 28	8.1	8.5	F5	3	..	37345i	80	1992	o.5	-54 45	8.9	9.4	Ao	2	..	40275b
31	1930	o.3	+31 18	8.5	8.6	A5	1	..	38630i	81	550	o.5	-74 1	6.7	6.7	B9	6	..	24452b
32	2038	o.3	+24 8	8.7	9.3	Go	2	..	37607i	82	371	o.5	-79 45	8.0	8.1	A3	6	..	20869b
33	2026	o.3	+14 10	10.6	11.2	G	1	..	5396m	83	1680	o.6	+45 34	8.6	9.4	G5	2	..	38639i
34	2735	o.3	- 9 19	8.4	9.8	Ma	2	E	18995b	84	2202	o.6	+39 5	8.1	8.6	F8	1	..	37345i
35	2736	o.3	-10 59	8.6	8.6	B9	7	..	18995b	85	2007	o.6	+17 31	7.57	8.35	G5	3	..	37607i
36	2781	o.3	-20 38	8.12	8.9	K2	4	..	13144b	86	1901	o.6	+16 15	7.27	7.25	B9	6	1,8	37607i
37	6704	o.3	-26 42	8.1	8.1	B9	7	..	24494b	87	2027	o.6	+13 59	10.6	11.4	G5	1	..	5396m
38	6877	o.3	-32 3	7.7	9.3	Ma	4	..	40081b	88	2570	o.6	- 3 11	8.2	9.2	Ko	5	..	19392b
39	6024	o.3	-32 19	9.6	9.3	A3	2	..	40081b	89	2786	o.6	-12 58	9.2	9.5	Fo	1	..	18995b
40	5200	o.3	-38 27	9.0	8.3	A2	4	..	13055b	90	8038	o.6	-23 22	9.1	9.0	A3	3	..	13144b
41	4930	o.3	-42 30	10.2	10.0	Ko	1	..	38418b	91	4773	o.6	-41 45	9.4	8.8	A2	5	..	38418b
42	4821	o.3	-45 38	8.5	9.0	Ko	3	..	38415b	92	551	o.6	-73 26	8.4	8.7	Fo	3	..	22988b
43	4621	o.3	-47 9	10.0	9.8	A5	2	..	38415b	93	442	o.7	+72 40	8.5	9.6	K2	1	..	37714i
44	3789	o.3	-50 19	9.4	9.6	Ao	3	..	38415b	94	508	o.7	+69 33	8.9	9.7	G5	4	..	37706i
45	881	o.3	-68 32	8.9	9.4	F8	4	..	21452b	95	1976	o.7	+14 54	9.44	10.44	Ko	3	..	5396m
46	1639	o.4	+47 4	8.6	9.0	F5	1	..	38639i	96	2116	o.7	+ 5 30	5.41	6.41	Ko	10	R	37606i
47	1937	o.4	+35 16	8.1	8.6	F8	2	..	37345i	97	2115	o.7	+ 5 7	8.5	8.8	Fo	3	..	37606i
48	1899	o.4	+26 31	8.5	9.5	Ko	2	2,1	38630i	98	2681	o.7	-16 57	8.2	9.4	K5	2	..	13154b
49	2537	o.4	- 4 18	8.6	9.6	Ko	3	..	19226b	99	8041	o.7	-23 48	7.9	8.3	Fo	4	..	13144b
50	2538	o.4	- 5 5	9.45	9.59	A5	1	..	19231b	100	7693	o.7	-24 41	var.	var.	Md	..	R	56,200

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H. D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4934	<i>m.</i> 0.7	<i>o</i> -42 28	10.2	9.9	F8	2	..	38418b	51	1978	<i>m.</i> 1.0	<i>o</i> +15 33	10.6	<i>i</i> 11.6	Ko	2	..	5396m
2	4933	0.7	-42 57	10.0	10.0	Ko	2	..	38418b	52	2141	1.0	+ 3 27	9.2	9.2	Ao	3	..	37606i
3	4881	0.7	-46 21	10.2	9.9	A2	1	..	38415b	53	2710	1.0	- 5 49	10.4	<i>ii</i> 11.4	Ko	1	..	19231b
4	4883	0.7	-46 42	3.69	6.3	Ko	..	0,8R	28,203	54	2716	1.0	- 8 9	8.6	9.8	K5	1	..	19231b
5	4882	0.7	-47 3	6.55	6.7	B3	..	5,4	28,203	55	2743	1.0	-14 24	8.8	9.8	Ko	4	..	18995b
6	2078	0.7	-53 41	8.5	9.7	Ma	1	..	40275b	56	2742	1.0	-14 36	9.2	9.7	F8	2	..	18995b
7	1987	0.7	-56 14	9.4	9.4	A	1	..	41151b	57	6719	1.0	-26 43	9.9	10.3	G5	1	..	24494b
8	1159	0.7	-62 12	10.1	10.2	A2	1	..	40096b	58	4939	1.0	-42 40	10.5	9.9	F5	1	..	38418b
9	779	0.7	-72 3	7.7	7.7	Ao	5	0,5	24527b	59	4834	1.0	-45 25	10.0	9.8	Ao	1	..	38415b
10	574	0.8	+67 34	9.5	10.0	F8	2	..	37517i	60	4095	1.0	-49 13	10.2	10.2	G5	1	..	38415b
11	1977	0.8	+15 40	8.0	9.4	Ma	5	5,2	5396m	61	4096	1.0	-49 24	9.4	9.0	A5	5	..	38415b
12	2541	0.8	- 4 15	10.4	10.5	A2	2	..	19392b	62	2082	1.0	-53 20	9.0	9.4	F5	2	..	40275b
13	2714	0.8	- 7 13	8.2	8.3	A3	7	..	19226b	63	1165	1.0	-61 50	9.0	10.9	K2	1	..	40096b
14	2715	0.8	- 7 52	var.	var.	A2	2	R	19231b	64	1027	1.0	-67 57	10.0	10.0	Ao	2	..	21452b
15	2787	0.8	-12 58	10.6	10.6	Ao	1	..	18995b	65	1933	1.1	+31 1	8.7	9.7	Ko	1	..	38630i
16	2691	0.8	-15 34	9.9	10.0	A3	3	..	46198b	66	2051	1.1	+22 48	8.37	8.37	Ao	4	..	37607i
17	5342	0.8	-35 50	10.2	10.1	Ao	1	..	39925b	67	1903	1.1	+16 18	10.2	10.8	G	1	..	5396m
18	5135	0.8	-39 46	10.0	10.0	Ko	1	..	39925b	68	2028	1.1	+14 49	9.9	10.9	K	1	..	5396m
19	5136	0.8	-39 53	11.1	10.0	Ao	1	..	39925b	69	2039	1.1	+13 26	10.2	11.2	Ko	3	..	5396m
20	4876	0.8	-40 40	8.7	9.2	G5	3	..	39925b	70	2127	1.1	- 1 9	9.6	10.0	F5	2	..	19392b
21	4831	0.8	-45 55	10.5	10.2	Ko	1	..	38415b	71	2571	1.1	- 4 3	9.7	9.8	A5	2	..	19392b
22	4884	0.8	-46 9	10.2	9.9	Ao	2	..	38415b	72	2577	1.1	- 8 43	8.4	8.8	F5	3	..	19231b
23	4628	0.8	-47 48	8.9	9.0	F5	4	..	38415b	73	2791	1.1	-13 4	9.2	9.5	Fo	3	..	18995b
24	3796	0.8	-50 39	10.5	9.9	A5	2	..	38415b	74	2742	1.1	-17 24	9.1	10.3	K5	1	..	46198b
25	3798	0.8	-51 3	8.8	9.0	Ao	5	..	38415b	75	6904	1.1	-28 38	9.4	9.8	B9	2	..	24494b
26	1893	0.8	-52 30	8.0	9.3	K5	3	..	40275b	76	7107	1.1	-29 31	8.9	8.8	B9	5	..	24494b
27	1848	0.8	-57 22	7.9	8.3	Ao	2	..	42241b	77	5730	1.1	-33 10	10.9	9.9	Ao	1	..	40081b
28	548	0.9	+70 12	8.7	9.8	K2	2	..	38602i	78	5441	1.1	-37 15	10.4	10.1	Ko	1	..	39925b
29	2265	0.9	+20 31	7.9	8.9	Ko	4	..	37607i	79	4785	1.1	-42 0	9.8	9.1	A3	4	..	38418b
30	2790	0.9	-12 31	8.8	9.8	Ko	2	..	19016b	80	4941	1.1	-42 52	9.2	9.1	Ao	3	..	38418b
31	2741	0.9	-14 11	8.6	8.7	A2	7	..	19016b	81	4097	1.1	-49 56	10.2	10.1	Ko	1	..	38415b
32	2788	0.9	-20 51	8.6	9.5	A5	2	..	13144b	82	3803	1.1	-50 35	9.6	9.9	F8	2	..	38415b
33	2492	0.9	-22 35	8.0	10.4	K5	1	..	13144b	83	3472	1.1	-51 36	9.2	9.9	Ko	1	..	40275b
34	6900	0.9	-28 23	8.9	9.3	A2	4	..	24494b	84	1167	1.1	-61 57	7.7	8.3	Fo	7	..	13026b
35	6899	0.9	-28 37	6.76	8.3	Ko	8	..	24494b	85	990	1.1	-64 29	8.8	10.2	Ma	1	..	21452b
36	5559	0.9	-34 26	10.2	10.0	A2	1	..	40081b	86	554	1.1	-75 20	8.23	9.6	Ma	4	..	21453b
37	5435	0.9	-37 24	8.8	9.5	Ao	3	..	13055b	87	285	1.2	+81 25	8.9	9.0	A3	3	..	37546i
38	5212	0.9	-38 36	10.9	10.3	A3	1	..	39925b	88	823	1.2	+63 39	7.8	8.8	Ko	4	..	37517i
39	4936	0.9	-43 4	9.0	8.6	F8	5	..	38418b	89	2045	1.2	+23 44	8.3	8.4	A2	3	..	37607i
40	4885	0.9	-46 59	10.9	10.1	Ao	1	..	38415b	90	1905	1.2	+16 43	9.9	10.0	A2	3	..	5396m
41	4094	0.9	-49 26	10.5	10.1	A2	1	..	38415b	91	1981	1.2	+15 37	8.0	8.4	F5	7	3,4	5396m
42	4093	0.9	-50 4	10.2	10.1	F8	2	..	38415b	92	2741	1.2	-10 57	7.9	8.9	Ko	7	..	18995b
43	1084	0.9	-63 19	8.2	8.2	B8	7	..	21452b	93	2547	1.2	-11 21	9.1	10.3	K5	2	..	18995b
44	1066	0.9	-65 28	9.2	9.5	F2	3	..	21452b	94	5731	1.2	-33 39	9.1	10.4	K5	1	..	40081b
45	1065	0.9	-66 0	4.18	4.32	A5	..	R	28,203	95	4786	1.2	-41 52	10.9	10.0	Ao	2	..	38418b
46	961	0.9	-66 50	10.6	10.7	A3	1	..	21452b	96	5096	1.2	-44 12	9.1	8.6	A2	3	..	38418b
47	1002	0.9	-69 35	9.1	9.1	Ao	4	..	21452b	97	5097	1.2	-44 25	7.8	8.6	K2	3	..	38418b
48	448	1.0	+73 25	8.7	9.5	G5	2	..	37714i	98	4836	1.2	-45 59	9.4	9.6	Fo	3	..	38415b
49	1312	1.0	+53 39	8.6	9.6	Ko	3	..	38650i	99	4890	1.2	-46 11	9.4	9.3	Ao	3	..	38415b
50	1969	1.0	+20 53	7.66	8.22	Go	5	..	37607i	100	3473	1.2	-51 15	9.4	9.6	Ao	3	..	38415b

THE HENRY DRAPER CATALOGUE.

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9^h 1^m. 2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2086	m. 1.2	° 53 18	9.4	9.4	Ao	2	..	40275b	51	1247	m. 1.5	° 59 38	8.6	9.2	F8	1	..	41151b
2	1998	1.2	- 54 6	9.7	9.7	A	1	..	40275b	52	1069	1.5	- 65 36	9.9	9.9	A	1	..	21452b
3	492	1.3	+ 71 47	7.18	8.18	Ko	6	..	38602i	53	964	1.5	- 66 57	8.9	9.7	G5	1	..	21452b
4	575	1.3	+ 66 55	9.5	10.1	G	2	..	37517i	54	577	1.6	+ 67 32	4.87	5.37	F8	..	3, R	1765c
5	824	1.3	+ 63 44	8.8	8.8	A	1	..	37517i	55	2052	1.6	+ 22 20	9.5	10.1	G	1	..	37607i
6	1315	1.3	+ 55 29	8.1	9.1	Ko	3	..	37705i	56	2164	1.6	+ 8 44	8.1	8.4	Fo	4	..	38198i
7	1313	1.3	+ 53 41	8.1	8.2	A2	3	..	37705i	57	2817	1.6	- 6 51	8.4	9.0	Go	5	..	19226b
8	1642	1.3	+ 47 49	7.8	8.8	Ko	5	..	38240i	58	2570	1.6	- 18 56	8.6	8.9	F2	3	..	13154b
9	1641	1.3	+ 47 43	8.9	9.2	Fo	1	..	38240i	59	8049	1.6	- 23 20	9.1	9.2	Ao	2	..	13144b
10	1982	1.3	+ 15 30	9.4	10.0	G	2	..	5396m	60	7707	1.6	- 24 42	8.0	9.2	F5	3	..	13144b
11	2029	1.3	+ 13 55	10.2	10.8	G	1	..	5396m	61	6242	1.6	- 27 23	9.2	10.1	A3	2	..	24494b
12	2040	1.3	+ 13 38	8.9	9.2	Fo	5	2,2	5396m	62	7182	1.6	- 30 52	7.9	8.8	K5	2	..	18927b
13	2121	1.3	+ 4 15	8.1	9.1	Ko	3	..	37606i	63	6043	1.6	- 32 34	8.4	10.2	K5	1	..	40081b
14	2790	1.3	- 2 32	9.0	9.8	G5	5	..	19392b	64	5447	1.6	- 37 24	10.2	9.5	Ao	1	..	13055b
15	5146	1.3	- 40 1	10.4	9.7	A2	1	..	39925b	65	4793	1.6	- 41 47	7.6	7.9	A3	7	..	38418b
16	4840	1.3	- 45 28	8.2	8.0	Ao	7	..	38415b	66	1908	1.6	- 52 41	8.5	9.6	Ko	2	..	40275b
17	4634	1.3	- 47 49	9.0	8.3	A2	5	..	38415b	67	2092	1.6	- 53 12	9.7	9.7	Ao	1	..	40275b
18	4395	1.3	- 48 26	10.0	9.6	F8	1	..	38415b	68	1302	1.6	- 60 52	9.6	10.7	K2	1	..	40096b
19	4100	1.3	- 49 44	10.0	9.6	Ao	2	..	38415b	69	965	1.6	- 67 1	8.7	9.2	F8	4	..	21452b
20	2001	1.3	- 54 13	9.4	9.4	Ao	2	..	40275b	70	1003	1.6	- 69 51	9.3	9.4	A2	6	..	21452b
21	991	1.3	- 64 36	9.7	9.7	A	1	..	21452b	71	469	1.6	- 77 42	8.7	10.1	Mb	3	..	21453b
22	286	1.4	+ 80 56	9.6	10.6	Ko	1	..	37493i	72	407	1.6	- 78 9	10.1	10.1	Ao	3	..	21453b
23	576	1.4	+ 67 4	9.0	9.3	Fo	4	..	37517i	73	341	1.7	+ 76 1	9.27	10.05	G5	2	..	37714i
24	1102	1.4	+ 60 57	8.7	8.7	B9	3	..	37705i	74	721	1.7	+ 64 40	8.85	9.35	F8	3	..	37517i
25	1682	1.4	+ 45 34	9.0	10.0	Ko	1	..	38639i	75	2048	1.7	+ 23 23	6.30	6.72	F5	9	..	37607i
26	2142	1.4	+ 3 13	7.9	8.3	F5	4	..	37606i	76	2573	1.7	- 3 46	9.2	9.3	A2	4	..	19392b
27	2202	1.4	- 1 22	9.2	9.2	Ao	4	..	19392b	77	2740	1.7	- 9 22	7.86	8.86	Ko	4	..	18995b
28	2739	1.4	- 9 44	8.1	9.1	Ko	3	..	18995b	78	2698	1.7	- 15 44	8.8	9.3	F8	3	..	13154b
29	2743	1.4	- 18 8	8.6	9.0	F5	3	..	13154b	79	2682	1.7	- 16 45	9.1	10.1	Ko	1	..	13154b
30	2790	1.4	- 21 8	8.0	9.3	G5	2	..	13144b	80	2745	1.7	- 17 22	9.2	9.6	F5	3	..	13154b
31	5099	1.4	- 44 34	9.4	9.6	G5	1	..	38418b	81	2617	1.7	- 19 43	8.6	9.2	G5	3	..	13144b
32	4843	1.4	- 45 20	10.2	9.8	A2	2	..	38415b	82	6867	1.7	- 25 50	8.9	9.5	Go	3	..	24494b
33	4892	1.4	- 46 25	6.98	7.3	A2	4	0,9	4947b	83	5355	1.7	- 35 50	9.4	8.9	Ao	3	..	13055b
34	4398	1.4	- 48 25	9.4	9.1	Ao	4	..	38415b	84	4953	1.7	- 42 39	8.9	8.9	Go	4	..	38418b
35	1904	1.4	- 52 7	7.1	8.4	Go	5	..	40275b	85	4912	1.7	- 43 21	10.5	10.1	F2	2	..	38418b
36	2002	1.4	- 54 32	8.7	8.9	Ao	4	..	40275b	86	4896	1.7	- 46 39	9.0	8.6	B8	5	..	38415b
37	1068	1.4	- 65 43	8.9	9.7	G5	2	..	21452b	87	4640	1.7	- 48 4	8.8	8.6	Ao	6	..	38415b
38	1943	1.5	+ 37 29	8.1	8.5	F5	4	..	37345i	88	4107	1.7	- 49 16	10.0	9.6	Go	3	..	38415b
39	1934	1.5	+ 31 37	7.06	8.13	K2	3	0,3	38630i	89	2005	1.7	- 54 26	8.6	9.7	K2	1	..	40275b
40	1691	1.5	+ 28 32	8.7	9.0	Fo	2	..	38630i	90	1924	1.7	- 55 57	6.9	7.0	B9	4	..	42241b
41	2047	1.5	+ 23 16	8.6	9.6	Ko	2	..	37607i	91	1304	1.7	- 60 37	8.5	8.8	F8	2	..	41151b
42	2124	1.5	+ 18 32	8.5	9.5	Ko	3	..	37607i	92	857	1.7	- 70 58	9.2	9.2	Ao	5	..	21452b
43	2791	1.5	- 2 13	7.6	8.2	Go	8	..	19392b	93	781	1.7	- 71 42	8.6	8.6	Ao	2	..	22988b
44	7703	1.5	- 24 21	9.2	10.3	F8	1	..	24494b	94	1694	1.8	+ 28 23	8.3	9.3	Ko	2	..	38173i
45	6727	1.5	- 26 56	7.9	9.6	G5	4	..	24494b	95	1940	1.8	+ 10 3	7.52	8.52	Ko	3	..	38283i
46	6240	1.5	- 27 41	8.3	9.9	Ko	3	..	24494b	96	2145	1.8	+ 1 52	6.41	7.76	Ma	7	..	37606i
47	5567	1.5	- 34 24	9.1	10.1	K5	1	..	40081b	97	2713	1.8	- 5 18	9.20	9.62	F5	2	..	19231b
48	5102	1.5	- 44 39	10.0	9.6	A2	2	..	38418b	98	2683	1.8	- 16 41	9.5	9.6	A2	2	..	13154b
49	4845	1.5	- 46 5	10.9	10.7	Ao	1	..	38415b	99	2792	1.8	- 21 6	8.8	9.6	A2	2	..	13144b
50	4103	1.5	- 50 1	10.5	9.6	A2	3	..	38415b	100	6048	1.8	- 32 26	9.3	9.0	A5	3	..	40081b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5573	m. 1.8	-34 8	7.9	8.3	Ao	6	..	40081b	51	1901	m. 2.1	+26 1	6.80	6.94	A5	5	5.5	3863oi
2	4891	1.8	-40 18	8.4	8.9	Ko	3	..	39925b	52	2049	2.1	+22 51	7.94	8.28	F2	5	..	37607i
3	4850	1.8	-45 57	9.6	9.3	A5	3	..	38415b	53	2030	2.1	+14 26	9.4	10.5	K2	2	..	5396m
4	3813	1.8	-50 29	10.2	10.5	K2	1	..	38415b	54	2078	2.1	+7 14	7.9	7.9	Ao	4	..	37606i
5	3478	1.8	-51 34	8.5	8.7	B9	3	..	40275b	55	2144	2.1	+2 59	6.56	6.90	F2	8	..	37606i
6	1370	1.8	-58 46	8.6	8.5	B8	4	..	41151b	56	2693	2.1	-21 31	9.2	10.2	K	1	..	13144b
7	558	1.8	-77 1	9.4	9.9	F8	3	..	21453b	57	8058	2.1	-23 45	8.01	8.0	F2	5	..	13144b
8	597	1.9	+66 14	8.6	8.7	A3	4	..	37517i	58	6914	2.1	-31 11	7.7	8.4	Ao	6	..	18927b
9	1365	1.9	+52 0	4.54	4.62	A3P	..	R	56,86	59	5240	2.1	-38 10	10.9	9.7	Ao	2	..	39925b
10	1808	1.9	+49 43	9.22	10.00	G5	1	..	38240i	60	5160	2.1	-39 30	9.8	9.5	Go	1	..	39925b
11	1969	1.9	+42 35	8.7	9.5	G5	4	..	38639i	61	4957	2.1	-42 15	10.2	10.0	G5	1	..	38418b
12	1922	1.9	+41 33	8.7	9.9	K5	3	..	38639i	62	4959	2.1	-43 2	9.4	8.8	Ao	4	..	38418b
13	2013	1.9	+17 0	9.2	10.6	Ma	2	..	5396m	63	4924	2.1	-43 48	9.6	9.5	Fo	3	..	38418b
14	2205	1.9	-1 55	9.9	10.4	F8	3	..	19392b	64	5114	2.1	-44 43	9.6	8.7	A2	3	..	38418b
15	2741	1.9	-9 53	8.2	9.3	K2	3	..	18995b	65	5115	2.1	-44 46	8.8	8.0	Ao	6	..	38418b
16	2548	1.9	-11 27	9.5	10.1	Go	1	..	18995b	66	4902	2.1	-47 2	10.5	10.0	A2	3	..	38415b
17	2573	1.9	-18 53	8.7	9.8	K2	2	..	13154b	67	4645	2.1	-47 20	9.4	9.5	F8	2	..	38415b
18	2692	1.9	-21 59	8.1	9.2	Ao	3	..	13144b	68	4646	2.1	-47 44	9.8	9.8	Ao	3	..	38415b
19	2497	1.9	-22 31	8.6	9.5	Ao	2	..	13144b	69	4110	2.1	-49 40	9.2	9.6	G5	2	..	38415b
20	6731	1.9	-26 20	9.2	10.1	B9	4	R	24494b	70	2102	2.1	-53 51	9.6	9.7	A3	1	..	40275b
21	7184	1.9	-30 29	9.1	8.5	Ao	3	..	18927b	71	1997	2.1	-56 20	8.5	9.1	Ko	2	..	41151b
22	7187	1.9	-30 36	9.5	8.7	Ao	2	..	18927b	72	1170	2.1	-61 43	10.5	10.5	Ao	1	..	40096b
23	7189	1.9	-31 3	9.1	9.3	K2	1	..	18927b	73	1070	2.1	-65 31	9.1	9.5	F5	3	..	21452b
24	5357	1.9	-35 42	7.29	8.7	K2	4	..	13055b	74	557	2.2	+67 52	8.1	8.5	F5	5	..	37517i
25	5235	1.9	-38 15	9.0	9.5	Ko	2	..	13055b	75	1916	2.2	+36 43	7.45	7.79	F2	6	..	37345i
26	5112	1.9	-44 40	9.4	8.9	A2	4	..	38418b	76	1818	2.2	+30 38	8.5	9.5	Ko	1	..	3863oi
27	4108	1.9	-49 28	10.0	9.3	Ao	4	..	38415b	77	1696	2.2	+27 58	7.9	8.7	G5	3	..	38173i
28	3479	1.9	-51 17	9.6	9.6	A5	2	..	38415b	78	..	2.2	+21 58	..	..	R5	..	..	M
29	1914	1.9	-52 42	8.6	8.7	Ao	6	..	40275b	79	2044	2.2	+13 7	9.4	10.4	Ko	3	..	5396m
30	1371	1.9	-58 25	8.5	9.7	Ko	1	..	41151b	80	1971	2.2	+11 50	9.6	10.6	Ko	1	..	38283i
31	1305	1.9	-60 10	7.95	9.1	K2	3	..	41151b	81	2107	2.2	+6 43	8.5	9.9	Mb	..	..	M
32	993	1.9	-64 17	7.2	7.2	B9	9	..	21452b	82	2237	2.2	+0 59	7.6	7.6	Ao	7	..	37606i
33	1485	2.0	+51 12	8.1	8.9	G5	3	..	38240i	83	2577	2.2	-3 33	8.7	9.3	Go	4	..	19392b
34	1810	2.0	+32 57	6.33	6.67	F2	7	..	37345i	84	2721	2.2	-7 24	8.5	9.7	K5	2	..	19226b
35	1817	2.0	+30 3	5.38	6.16	G5	8	5.7 R	38650i	85	6257	2.2	-27 34	8.2	9.5	Ko	3	..	24494b
36	1973	2.0	+21 24	9.1	10.1	Ko	1	..	37607i	86	5353	2.2	-36 45	9.0	9.2	G5	3	0,2	39925b
37	2544	2.0	-4 41	8.8	9.8	Ko	2	..	19231b	87	5241	2.2	-38 29	9.1	8.6	A2	4	..	13055b
38	2821	2.0	-7 8	9.2	9.3	A2	3	..	19226b	88	5161	2.2	-39 22	9.3	9.7	Ko	1	..	39925b
39	2684	2.0	-16 29	9.0	9.3	Fo	3	..	13154b	89	5118	2.2	-44 19	10.2	10.4	Ko	1	..	38418b
40	7713	2.0	-25 0	8.70	8.3	Ao	6	..	13144b	90	4111	2.2	-49 53	7.40	7.8	B8	9	..	38415b
41	5454	2.0	-37 51	8.5	8.6	Fo	6	..	13055b	91	1916	2.2	-52 49	8.3	8.7	B5	4	..	40275b
42	4921	2.0	-43 13	9.2	8.7	Fo	4	..	38418b	92	2011	2.2	-54 50	8.5	9.2	K2	4	3,1	40275b
43	4644	2.0	-47 15	8.6	10.0	K2	2	..	38415b	93	1859	2.2	-57 27	6.50	7.4	A3	6	..	42241b
44	4411	2.0	-48 38	9.2	9.0	B9	4	..	38415b	94	1071	2.2	-66 0	9.9	9.9	Ao	2	..	21452b
45	4109	2.0	-49 52	9.1	9.1	Fo	5	..	38415b	95	470	2.2	-78 1	9.3	10.1	G5	3	..	21453b
46	3814	2.0	-50 24	10.9	10.2	Ao	1	..	38415b	96	825	2.3	+62 51	7.9	8.0	A5	5	0,5	37517i
47	1169	2.0	-61 30	9.9	10.2	F2	2	..	40096b	97	1172	2.3	+60 35	8.7	9.5	G5	2	..	37705i
48	966	2.0	-66 50	9.2	10.0	G5	2	..	21452b	98	1683	2.3	+45 48	8.7	9.9	K5	1	..	38639i
49	1221	2.1	+59 32	7.20	8.20	Ko	5	..	37705i	99	1819	2.3	+30 43	8.3	9.3	Ko	2	..	3863oi
50	1809	2.1	+49 43	7.72	8.72	Ko	4	..	38240i	100	1983	2.3	+15 4	9.4	10.2	G5	4	5,2	5396m

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2165	2.3	+ 7 53	8.1	8.5	F5	3	0,3	38198i	51	5754	2.6	-33 10	8.0	9.0	G5	3	..	40081b
2	2751	2.3	-17 48	6.75	7.75	Ko	8	..	13154b	52	4814	2.6	-41 33	8.7	9.1	Ao	3	..	38418b
3	5242	2.3	-38 44	10.2	10.3	Ko	1	..	39925b	53	4813	2.6	-41 46	8.7	9.7	K5	1	..	38418b
4	5120	2.3	-44 34	10.9	10.1	A	1	..	38418b	54	4653	2.6	-47 15	8.9	8.7	B9	6	..	38415b
5	5121	2.3	-45 4	9.79	9.3	A2	3	..	38418b	55	4420	2.6	-48 50	7.5	9.3	Ko	3	..	38415b
6	4648	2.3	-47 8	9.2	8.4	Ao	5	..	38415b	56	4421	2.6	-48 59	10.5	9.9	A2	2	..	38415b
7	4418	2.3	-48 23	10.0	9.3	Ao	3	..	38415b	57	3829	2.6	-50 10	9.6	10.1	B8	2	..	38415b
8	4417	2.3	-48 51	8.5	9.0	Fo	4	..	38415b	58	3831	2.6	-51 4	8.5	8.7	Ao	6	..	38415b
9	3483	2.3	-51 29	9.4	9.7	A2	1	..	40275b	59	2015	2.6	-55 5	8.44	9.1	Ko	1	..	41151b
10	1171	2.3	-61 52	10.6	10.6	B9	1	..	40096b	60	858	2.6	-70 12	6.90	6.9	Fo	8	..	24527b
11	968	2.3	-66 41	9.1	9.7	Go	2	..	21452b	61	509	2.7	+69 27	8.7	8.8	A2	7	..	37706i
12	555	2.3	-73 48	7.9	7.9	Ao	2	..	24452b	62	723	2.7	+63 55	4.74	5.16	F5	..	R	2321c
13	1316	2.4	+55 18	9.3	9.9	G	1	..	37705i	63	723	2.7	+63 55	4.74	5.16	A5	..	R	2321c
14	1832	2.4	+44 26	8.9	9.7	G5	2	..	38639i	64	1223	2.7	+59 40	8.21	8.63	F5	3	..	37705i
15	2032	2.4	+14 5	9.4	9.9	F8	3	..	5396m	65	1318	2.7	+55 37	9.0	9.4	F5	2	..	37705i
16	1984	2.4	+11 4	5.14	5.09	B8	..	I,R	56,86	66	1949	2.7	+34 18	5.95	6.45	F8	8	..	37345i
17	2461	2.4	+ 0 29	7.7	8.2	F8	2	..	37606i	67	2546	2.7	- 4 52	8.4	9.4	Ko	4	..	19231b
18	2800	2.4	-12 55	6.95	7.23	Fo	9	..	18995b	68	2751	2.7	-15 7	9.5	10.1	Go	3	..	46198b
19	2752	2.4	-17 28	9.2	9.3	A2	2	..	13154b	69	6736	2.7	-26 56	8.5	9.8	Ko	2	..	24494b
20	2498	2.4	-22 56	8.4	9.0	F5	3	..	13144b	70	5755	2.7	-33 52	8.8	9.0	F5	2	..	40081b
21	6733	2.4	-26 32	8.9	9.9	Ko	3	..	24494b	71	5251	2.7	-38 42	10.7	10.4	Ko	1	..	39925b
22	6259	2.4	-27 9	9.2	10.3	Ko	1	..	24494b	72	5175	2.7	-39 36	9.4	9.7	G5	1	..	39925b
23	5355	2.4	-36 24	8.4	8.3	Ao	7	..	13055b	73	1073	2.7	-66 5	8.7	9.7	Ko	3	..	21452b
24	5123	2.4	-44 38	10.5	10.1	A	1	..	38418b	74	365	2.8	+75 41	7.67	8.45	G5	6	..	37714i
25	4855	2.4	-45 12	10.5	10.4	A2	1	..	38418b	75	391	2.8	+74 12	9.8	9.9	A5	2	..	37714i
26	4114	2.4	-49 45	7.8	7.9	Ao	8	..	38415b	76	1973	2.8	+12 21	7.36	8.36	Ko	3	..	38283i
27	1937	2.4	-55 38	8.9	8.8	B9	3	..	41151b	77	2124	2.8	+ 9 17	8.9	9.3	F5	1	..	38198i
28	1376	2.4	-58 22	8.6	9.1	A3	2	..	41151b	78	2752	2.8	-14 42	9.9	10.5	Go	2	..	46198b
29	295	2.4	-82 17	9.3	9.7	F5	1	..	20869b	79	2622	2.8	-19 57	8.7	9.0	Fo	3	..	13144b
30	1810	2.5	+49 21	8.7	8.8	A2	3	..	38240i	80	5255	2.8	-38 10	8.4	8.3	Ko	3	..	13055b
31	1945	2.5	+35 45	8.0	9.1	K2	1	..	37345i	81	5254	2.8	-38 38	10.2	9.7	Fo	3	..	39925b
32	1937	2.5	+31 1	8.5	9.5	Ko	1	..	38630i	82	4920	2.8	-41 1	9.0	8.5	A3	4	..	38418b
33	2794	2.5	- 2 41	9.0	9.1	A2	4	..	19392b	83	4817	2.8	-41 36	8.7	9.2	G5	3	..	38418b
34	2579	2.5	- 4 4	9.0	9.6	Go	3	..	19392b	84	4934	2.8	-43 28	10.2	9.8	G5	2	..	38418b
35	2746	2.5	-10 20	8.21	9.28	K2	4	..	18995b	85	4913	2.8	-46 11	9.4	9.2	A2	3	..	38415b
36	2703	2.5	-15 16	9.11	10.11	Ko	1	..	13154b	86	4118	2.8	-49 18	10.0	9.6	Go	2	..	38415b
37	5356	2.5	-36 13	10.9	10.4	Ao	1	..	39925b	87	1379	2.8	-58 32	8.4	8.6	A5	4	..	41151b
38	5357	2.5	-36 59	8.7	8.7	A2	4	..	13055b	88	1614	2.9	+50 14	7.62	7.96	F2	5	..	38240i
39	5170	2.5	-39 52	10.0	10.0	Go	1	..	39925b	89	1978	2.9	+21 46	9.5	10.1	G	2	..	37607i
40	4916	2.5	-40 19	9.6	9.9	Ko	1	..	39925b	90	1985	2.9	+14 55	9.6	9.7	A2	4	..	5396m
41	5125	2.5	-45 2	8.59	8.0	A2	5	..	38418b	91	2825	2.9	- 6 44	8.4	9.0	Go	5	0,6	19231b
42	4857	2.5	-45 40	9.6	9.3	Ao	3	..	38415b	92	2746	2.9	-10 6	7.71	7.71	Ao	9	..	18995b
43	4911	2.5	-46 52	10.5	10.4	Ao	2	..	38415b	93	2552	2.9	-11 58	9.5	9.8	F2	2	..	18995b
44	4650	2.5	-47 22	9.0	10.0	B	3	..	38415b	94	2802	2.9	-12 17	8.8	9.1	F2	4	..	18995b
45	4654	2.5	-47 55	9.6	10.1	B	1	..	38415b	95	2769	2.9	-14 3	9.1	9.5	F5	5	..	18995b
46	1030	2.5	-67 14	8.3	8.6	F2	7	..	21452b	96	7729	2.9	-24 45	8.7	9.5	G5	2	..	24494b
47	1984	2.6	+15 7	7.48	8.48	Ko	4	2,7	37607i	97	5258	2.9	-38 58	9.8	9.7	B9	3	..	39925b
48	2033	2.6	+14 26	7.69	8.87	K5	3	0,7	38283i	98	4936	2.9	-43 13	10.2	10.4	F2	1	..	38418b
49	2725	2.6	- 7 13	8.4	8.4	Ao	6	..	19226b	99	5130	2.9	-44 42	9.8	9.3	B8	3	..	38418b
50	6930	2.6	-28 54	7.7	8.6	F5	5	..	24494b	100	4658	2.9	-47 47	9.4	8.6	Ao	4	..	38415b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4424	2.9	-48 14	8.8	8.7	Ao	4	..	38415b	51	2019	3.2	+16 49	9.2	10.0	G5	3	..	5396m
2	4423	2.9	-48 41	10.0	10.2	Ko	1	..	38415b	52	2149	3.2	+ 3 34	9.2	9.8	G	2	..	37606i
3	4120	2.9	-49 14	10.2	9.7	Go	2	..	38415b	53	2557	3.2	-11 55	8.7	8.7	B9	5	..	18995b
4	3835	2.9	-50 56	10.5	9.9	Ao	1	..	38415b	54	5760	3.2	-33 17	8.4	8.1	Ao	7	..	40081b
5	1924	2.9	-52 24	8.4	8.7	B8	7	..	40275b	55	5381	3.2	-35 57	9.0	8.9	Ao	4	..	13055b
6	1945	2.9	-55 20	8.8	8.8	Ao	3	1,2	40275b	56	5471	3.2	-37 42	9.4	10.1	G5	1	..	39925b
7	1164	2.9	-62 23	9.2	9.5	F2	3	..	40096b	57	4970	3.2	-42 48	9.8	9.7	Go	1	..	38418b
8	1163	2.9	-63 2	9.1	9.1	Ao	3	..	21452b	58	4919	3.2	-46 47	9.6	9.5	Ao	4	..	38415b
9	996	2.9	-64 56	8.9	9.5	Go	3	..	21452b	59	4662	3.2	-47 31	7.9	7.8	B9	7	..	38415b
10	1074	2.9	-65 27	9.6	9.7	A2	1	..	21452b	60	1260	3.2	-59 7	8.4	8.2	A3	4	..	41151b
11	885	2.9	-68 46	9.6	10.8	K5	1	..	21452b	61	557	3.2	-74 33	9.8	9.8	Ao	2	..	21453b
12	775	2.9	-72 54	8.6	8.7	A2	2	..	22988b	62	1686	3.3	+44 53	8.97	9.39	F5	2	..	38639i
13	1319	3.0	+55 22	7.9	8.3	F5	6	..	37705i	63	2020	3.3	+17 38	8.5	8.9	F5	3	..	37607i
14	1321	3.0	+55 7	9.3	9.3	A	1	..	37705i	64	2208	3.3	- 1 16	8.9	10.1	K5	2	..	19392b
15	1370	3.0	+51 50	9.1	10.1	Ko	1	..	38240i	65	2581	3.3	- 3 53	9.7	10.3	Go	1	..	19392b
16	1729	3.0	+48 33	9.1	9.9	G5	1	..	38240i	66	2499	3.3	-23 0	9.0	10.1	G5	1	..	13144b
17	2003	3.0	+38 26	10.0	10.1	A2	1	..	37345i	67	7143	3.3	-29 42	7.6	8.1	G5	7	..	24494b
18	1715	3.0	+27 3	5.96	6.74	G5	8	0,7R	38630i	68	6071	3.3	-32 45	9.4	9.6	Ko	1	..	18927b
19	2018	3.0	+17 5	7.9	8.9	Ko	4	0,7	37607i	69	5263	3.3	-39 6	8.0	9.1	Ko	3	..	39925b
20	2045	3.0	+13 37	9.2	10.6	Mc	3	..	5396m	70	4929	3.3	-40 6	10.7	9.7	A2	1	..	39925b
21	2207	3.0	- 2 5	7.12	7.90	G5	8	0,4	19392b	71	4973	3.3	-42 16	10.5	10.3	Ao	1	..	38418b
22	2726	3.0	- 7 25	7.9	8.2	Fo	9	..	19231b	72	4867	3.3	-45 51	9.6	9.5	Ao	3	..	38415b
23	2747	3.0	- 9 27	7.78	7.78	Ao	8	..	18995b	73	4868	3.3	-46 1	9.6	9.3	A3	3	..	38415b
24	2554	3.0	-11 37	7.29	8.47	K5	6	..	18995b	74	4431	3.3	-49 3	10.0	10.5	Ko	1	..	38415b
25	2578	3.0	-18 19	9.2	10.2	Ko	1	..	13154b	75	4122	3.3	-49 59	10.5	10.2	G5	1	..	38415b
26	5598	3.0	-34 24	8.4	9.2	F5	3	E	18927b	76	561	3.3	-77 3	9.3	9.9	Go	3	..	21453b
27	5365	3.0	-36 55	9.0	9.6	K5	1	..	13055b	77	2164	3.4	+40 34	7.9	9.1	K5	2	..	37459i
28	5364	3.0	-37 5	9.8	9.5	A2	2	..	13055b	78	2043	3.4	+23 54	8.8	8.8	Ao	2	..	37607i
29	4968	3.0	-43 6	7.7	7.6	Go	7	..	38418b	79	2129	3.4	+17 52	7.35	8.35	Ko	5	..	37607i
30	4939	3.0	-43 37	10.5	10.5	Fo	1	..	38418b	80	2125	3.4	+ 8 56	9.4	10.0	G	1	..	38198i
31	4427	3.0	-48 13	10.2	9.6	Ao	3	..	38415b	81	6272	3.4	-27 36	9.9	10.4	Ao	1	..	24494b
32	4426	3.0	-48 18	10.9	10.5	G	1	..	38415b	82	6946	3.4	-28 36	9.1	9.8	Ao	2	..	24494b
33	1928	3.0	-52 33	8.9	9.6	F8	2	..	40275b	83	5605	3.4	-34 21	11.4	9.5	A	1	E	18927b
34	2018	3.0	-54 38	8.1	9.1	K2	5	2,2	40275b	84	5266	3.4	-38 25	7.36	8.2	K2	5	..	13055b
35	886	3.0	-68 50	8.5	8.6	A2	5	..	21452b	85	4870	3.4	-45 16	9.2	10.1	Ko	1	..	38418b
36	557	3.0	-75 55	9.6	10.6	Ko	2	..	21453b	86	3839	3.4	-50 39	10.2	9.6	Ao	3	..	38415b
37	243	3.1	+83 2	8.5	9.0	F8	5	..	37546i	87	1166	3.4	-62 26	9.7	10.3	Go	1	..	40096b
38	8071	3.1	-23 38	9.4	8.6	A2	3	..	13144b	88	1314	3.5	+53 28	10.0	10.1	A2	2	..	38650i
39	7208	3.1	-30 43	9.5	9.3	A2	2	..	18927b	89	1920	3.5	+36 47	8.9	9.3	F5	1	..	37345i
40	6929	3.1	-31 31	8.1	8.4	G5	4	..	18927b	90	1815	3.5	+33 48	8.7	9.7	Ko	2	..	37345i
41	5601	3.1	-34 6	7.8	7.8	Ao	8	..	18927b	91	2047	3.5	+13 30	10.6	10.7	A3	2	..	5396m
42	5367	3.1	-36 14	9.4	9.6	G5	2	..	39925b	92	2727	3.5	- 5 14	9.35	9.43	A3	7	..	19231b
43	4660	3.1	-47 13	10.2	10.1	Ao	4	..	38415b	93	2749	3.5	-10 4	9.26	10.26	K	1	..	18995b
44	2019	3.1	-54 30	8.5	8.8	Ao	6	0,3	40275b	94	2559	3.5	-11 32	8.0	9.1	K2	6	..	18995b
45	1172	3.1	-61 26	7.6	8.6	K5	4	..	13026b	95	2710	3.5	-16 6	8.8	9.8	Ko	2	..	13154b
46	1088	3.1	-63 53	8.1	9.1	Ko	5	..	21452b	96	2757	3.5	-17 28	8.7	9.8	K2	3	..	13154b
47	560	3.1	-76 7	10.7	10.7	A	1	..	21453b	97	2755	3.5	-17 41	9.2	10.2	Ko	1	..	13154b
48	510	3.2	+69 29	8.9	9.7	G5	4	..	37706i	98	2625	3.5	-19 22	9.1	10.1	Ko	1	..	13154b
49	1371	3.2	+52 48	8.1	8.2	A5	4	..	38240i	99	7746	3.5	-24 49	10.4	9.8	Ao	2	..	24494b
50	1645	3.2	+47 25	8.1	8.4	F2	4	..	38240i	100	6274	3.5	-27 47	7.58	8.6	G5	5	..	24494b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4978	3.5	-42 30	9.4	9.5	F8	1	..	38418b	51	971	3.7	-66 48	9.5	9.5	Ao	2	..	21452b
2	4951	3.5	-43 19	9.6	10.5	Ko	1	..	38418b	52	473	3.7	-78 5	9.4	10.4	Ko	2	..	21453b
3	4871	3.5	-45 28	9.6	9.3	Ao	3	0,3	38415b	53	1845	3.8	+32 32	8.5	9.5	Ko	1	..	37345i
4	4432	3.5	-48 11	10.2	10.2	Ao	1	..	38415b	54	2109	3.8	+6 0	7.9	8.7	G5	3	..	37606i
5	1933	3.5	-52 38	8.0	9.3	K2	2	..	40275b	55	2551	3.8	-4 50	9.0	9.1	A2	4	..	19231b
6	1932	3.5	-52 52	8.3	8.4	B9	4	..	40275b	56	2588	3.8	-8 11	5.50	5.45	B8	..	..	56,86
7	1174	3.5	-61 42	8.2	8.2	B8	5	..	13026b	57	2589	3.8	-8 59	7.9	8.7	G5	4	..	18995b
8	1031	3.5	-67 19	9.4	9.4	Ao	3	..	21452b	58	2757	3.8	-14 44	7.26	7.82	Go	7	..	13154b
9	562	3.5	-76 30	8.6	9.0	F5	7	..	21453b	59	2690	3.8	-16 29	8.6	9.6	Ko	2	..	13154b
10	408	3.5	-78 30	9.5	10.1	Go	3	..	21453b	60	8082	3.8	-23 33	8.9	10.1	Ko	1	..	13144b
11	551	3.6	+70 7	9.3	9.9	G	2	..	37706i	61	6279	3.8	-27 21	7.7	9.3	Ao	4	..	24494b
12	1885	3.6	+43 21	8.3	8.4	A5	4	..	38639i	62	5612	3.8	-34 54	10.0	9.5	Ao	1	..	18927b
13	1941	3.6	+31 7	7.71	7.85	A5	3	0,3	38630i	63	5479	3.8	-37 40	10.0	10.0	Ao	1	..	39925b
14	1902	3.6	+26 14	8.7	9.7	Ko	2	..	38630i	64	5192	3.8	-39 26	7.6	7.6	A2	5	..	39925b
15	2061	3.6	+22 27	5.22	6.00	G5	10	R	37607i	65	4438	3.8	-48 48	10.2	9.9	A2	2	..	38415b
16	2587	3.6	-8 30	9.2	10.0	G5	2	..	19231b	66	3847	3.8	-50 24	9.8	10.1	Ao	1	..	38415b
17	2560	3.6	-11 37	3.5	8.6	A5	8	..	18995b	67	3845	3.8	-50 38	9.4	9.3	B9	4	..	38415b
18	2701	3.6	-21 40	8.8	9.5	Ao	2	..	13144b	68	1386	3.8	-58 48	7.9	7.6	B9	3	..	42241b
19	7748	3.6	-24 33	9.4	10.1	Ko	1	..	24494b	69	1091	3.8	-63 41	9.1	9.7	Go	2	..	21452b
20	6948	3.6	-28 11	7.77	9.0	K2	4	..	24494b	70	1000	3.8	-64 33	8.4	9.4	Ko	3	..	21452b
21	7152	3.6	-29 34	9.2	9.3	G5	2	..	24494b	71	1204	3.9	+57 17	9.1	9.4	F	2	..	37705i
22	6939	3.6	-31 38	8.0	9.0	K5	4	..	18927b	72	1836	3.9	+44 36	8.6	8.7	A5	3	R	38639i
23	6936	3.6	-31 52	8.5	8.1	A2	6	..	18927b	73	1949	3.9	+35 49	8.0	8.1	A5	6	..	37345i
24	6079	3.6	-32 8	8.4	9.3	Ko	3	..	18927b	74	1911	3.9	+16 13	9.2	10.2	Ko	4	..	5396m
25	5387	3.6	-35 58	10.0	10.4	K2	1	..	39925b	75	2132	3.9	-0 19	9.18	9.74	Go	1	..	19392b
26	4979	3.6	-42 24	9.4	9.9	Ko	1	..	38418b	76	2133	3.9	-0 43	9.2	9.8	Go	2	..	19392b
27	4873	3.6	-45 37	8.9	8.9	Ao	4	..	38415b	77	2503	3.9	-22 40	8.0	10.1	Ko	2	..	13144b
28	4126	3.6	-49 14	9.6	9.9	K5	2	..	38415b	78	2502	3.9	-22 56	8.4	9.5	Fo	3	..	13144b
29	1937	3.6	-52 8	7.9	8.8	Ko	4	..	40275b	79	7755	3.9	-25 0	9.4	9.9	Ao	3	..	24494b
30	2122	3.6	-53 41	8.7	8.5	Ao	6	..	40275b	80	4925	3.9	-46 43	10.0	9.8	Ao	3	..	38415b
31	1262	3.6	-59 8	8.4	9.8	K5	1	..	41151b	81	4666	3.9	-47 28	9.6	9.0	A2	4	..	38415b
32	1051	3.7	+62 47	8.9	9.9	Ko	1	..	37517i	82	4667	3.9	-48 2	9.0	8.4	Ao	4	..	38415b
33	1986	3.7	+15 39	8.5	8.9	F5	6	0,4	5396m	83	2128	3.9	-53 55	9.6	9.7	A5	1	..	40275b
34	1988	3.7	+11 13	8.9	9.7	G5	1	..	38283i	84	300	4.0	+79 42	8.05	7.88	B3	5	..	37714i
35	2172	3.7	+7 55	7.09	8.09	Ko	5	0,4	38198i	85	2053a	4.0	+25 39	var.	var.	Md	..	R	56,201
36	2126	3.7	+4 21	8.5	9.0	F8	3	..	37606i	86	1912	4.0	+16 44	10.2	10.8	G	2	..	5396m
37	2131	3.7	-0 22	8.3	8.8	F8	7	0,3	19392b	87	1988	4.0	+15 36	9.2	10.6	Ma	2	..	5396m
38	2549	3.7	-4 43	8.0	8.8	G5	6	..	19231b	88	2731	4.0	-5 20	9.05	9.11	A2	3	..	19231b
39	2770	3.7	-13 45	8.6	9.6	Ko	2	..	18995b	89	2691	4.0	-16 51	8.6	9.7	K2	2	..	13154b
40	2755	3.7	-14 59	9.7	10.5	G5	2	..	46198b	90	6285	4.0	-28 5	8.5	9.7	Ao	6	..	24494b
41	6895	3.7	-25 27	4.82	7.5	K5	7	R	11015b	91	7159	4.0	-29 32	10.4	9.7	Ao	1	..	24494b
42	6752	3.7	-26 54	7.9	9.9	Ma	2	..	24494b	92	7223	4.0	-30 42	8.9	9.3	A3	2	..	18927b
43	5766	3.7	-33 43	7.8	8.4	F2	7	..	18927b	93	5769	4.0	-33 52	8.0	9.6	K5	2	..	18927b
44	5379	3.7	-36 6	10.0	10.1	F8	1	..	39925b	94	4831	4.0	-41 32	9.0	9.2	Ao	4	..	38418b
45	5477	3.7	-37 27	10.7	10.1	A3	1	..	39925b	95	4957	4.0	-43 45	9.0	10.1	K5	1	..	38418b
46	4980	3.7	-42 6	10.5	10.0	Ao	1	..	38418b	96	4958	4.0	-43 51	10.5	10.1	F8	1	..	38418b
47	4952	3.7	-43 33	8.9	9.0	A3	5	..	38418b	97	4926	4.0	-46 28	10.0	9.8	Ao	3	..	38415b
48	1957	3.7	-55 24	6.22	6.10	B5	5	4,6	42951b	98	4134	4.0	-49 24	11.5	10.2	Ao	1	..	38415b
49	1385	3.7	-58 40	8.7	9.1	G5	2	..	41151b	99	3849	4.0	-50 49	6.47	8.7	K5	7	5,7	40275b
50	1176	3.7	-61 43	9.1	10.6	G5	1	..	40096b	100	..	4.0	-64 51	..	..	K5	1	..	21452b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	973	4.0	-66 13	8.8	9.4	Go	4	..	21452b	51	4135	4.3	-49 40	10.5	10.2	Ao	1	..	38415b
2	1034	4.0	-67 42	7.7	8.9	K5	6	..	21452b	52	4136	4.3	-49 53	10.9	10.2	Ao	2	..	38415b
3	1005	4.0	-69 12	8.6	8.9	F2	5	..	21452b	53	3854	4.3	-50 44	9.2	10.2	Ko	1	..	38415b
4	1006	4.0	-70 3	10.1	10.2	A2	2	..	21452b	54	3506	4.3	-52 6	9.8	9.4	Ao	2	..	40275b
5	265	4.1	+82 45	9.0	9.3	Fo	3	..	37546i	55	1036	4.3	-67 33	9.1	9.1	B9	4	..	21452b
6	1487	4.1	+51 43	9.5	10.1	G	1	..	38240i	56	554	4.4	+70 21	7.68	8.46	G5	4	..	37706i
7	1822	4.1	+29 57	8.31	9.49	K5	1	..	38630i	57	579	4.4	+67 42	9.3	9.4	A2	3	..	37517i
8	1913	4.1	+16 30	9.0	9.1	A2	6	..	5396m	58	2170	4.4	+19 21	8.7	9.3	G	3	..	37607i
9	2048	4.1	+13 45	8.3	8.9	Go	5	0,2	5396m	59	1989	4.4	+15 46	9.9	11.0	K2	2	..	5396m
10	2209	4.1	- 1 11	7.9	9.1	K5	6	5,3	19392b	60	1990	4.4	+14 52	8.44	9.22	G5	6	5,3	5396m
11	2732	4.1	- 5 34	8.7	8.8	A3	7	..	19231b	61	1979	4.4	+11 58	6.46	6.74	Fo	7	..	38283i
12	2754	4.1	-10 21	7.31	7.87	Go	9	..	18995b	62	1990	4.4	+10 53	8.3	8.7	F5	2	..	38283i
13	2771	4.1	-13 58	9.7	10.1	F5	1	..	18995b	63	2465	4.4	+ 0 1	8.5	9.3	G5	3	..	37606i
14	2712	4.1	-15 52	6.58	7.58	Ko	8	..	13154b	64	2138	4.4	- 0 42	8.3	9.4	K2	4	..	19392b
15	7163	4.1	-29 52	8.5	8.1	B9	5	..	24494b	65	2753	4.4	- 9 18	9.0	9.3	F	1	..	18995b
16	5150	4.1	-44 14	7.0	8.6	B5	3	0,9	4947b	66	2752	4.4	- 9 36	9.7	9.7	Ao	2	..	18995b
17	4930	4.1	-46 53	10.5	10.9	Go	1	..	38415b	67	2757	4.4	-11 10	8.6	8.7	A2	6	..	18995b
18	4669	4.1	-47 28	9.4	9.6	G5	3	..	38415b	68	2565	4.4	-11 57	5.81	6.81	Ko	7	..	21367b
19	3851	4.1	-50 23	10.0	9.6	A2	2	..	38415b	69	2808	4.4	-12 45	9.2	10.2	K	1	..	18995b
20	1035	4.1	-67 24	9.0	10.2	K5	1	..	21452b	70	2694	4.4	-16 22	8.1	8.6	F8	5	..	13154b
21	561	4.1	-73 42	8.2	9.2	Ko	2	..	22988b	71	2764	4.4	-17 18	9.2	10.3	K2	1	..	46198b
22	2055	4.2	+23 5	8.0	9.2	K5	2	..	37607i	72	2763	4.4	-17 49	8.8	9.8	Ko	2	..	13154b
23	2136	4.2	- 0 50	8.9	9.2	F2	4	..	19392b	73	8089	4.4	-23 19	9.4	9.3	Fo	2	..	13144b
24	2704	4.2	-21 35	8.7	9.8	Ko	2	..	13144b	74	8092	4.4	-23 44	9.2	9.3	Go	2	0,2	13144b
25	8088	4.2	-23 29	8.9	10.2	K2	1	..	13144b	75	7764	4.4	-24 57	9.90	9.8	F5	2	..	24494b
26	5384	4.2	-36 57	7.65	6.5	Ao	8	..	13055b	76	6766	4.4	-26 22	6.20	7.3	A2	9	..	24494b
27	5202	4.2	-39 40	9.6	9.7	A2	1	..	39925b	77	6291	4.4	-27 42	9.7	9.5	Ko	3	..	24494b
28	4880	4.2	-46 4	9.4	9.6	Fo	3	..	38415b	78	7229	4.4	-30 8	8.80	9.6	K2	2	..	24494b
29	4673	4.2	-47 10	8.6	8.4	F5	6	..	38415b	79	5774	4.4	-33 17	9.1	9.7	K2	2	..	18927b
30	4676	4.2	-47 56	11.5	11.1	K2	1	..	38415b	80	4991	4.4	-42 45	9.8	9.7	F8	2	..	38418b
31	3504	4.2	-51 57	8.3	9.0	G5	3	..	40275b	81	4992	4.4	-42 56	9.2	8.6	Ao	2	..	38418b
32	1093	4.2	-64 6	6.36	8.2	Ko	8	..	21452b	82	4964	4.4	-43 49	10.9	10.1	Fo	2	..	38418b
33	444	4.3	+72 4	6.46	7.46	Ko	8	..	38602i	83	5156	4.4	-44 9	9.2	9.0	B8	3	..	38418b
34	1914	4.3	+15 52	8.5	8.6	A2	7	2,4	5396m	84	4883	4.4	-45 29	8.5	9.0	Ko	3	..	38415b
35	1945	4.3	+10 36	8.7	9.7	Ko	1	..	38283i	85	4139	4.4	-50 6	9.18	8.8	Ao	5	..	38415b
36	1944	4.3	+10 10	8.5	8.6	A2	2	..	38283i	86	3855	4.4	-50 14	8.83	9.1	Fo	5	..	38415b
37	2154	4.3	+ 3 21	7.7	8.0	Fo	6	..	37606i	87	3857	4.4	-50 50	11.5	10.2	A3	1	..	38415b
38	2554	4.3	- 4 50	9.5	9.6	A5	2	..	19231b	88	3507	4.4	-51 30	8.6	9.6	Ko	2	..	40275b
39	2735	4.3	- 7 47	8.2	8.2	B9	7	..	19231b	89	2034	4.4	-54 13	8.9	9.8	K5	1	..	40275b
40	2750	4.3	- 9 44	9.2	10.2	Ko	1	..	18995b	90	1272	4.4	-59 51	7.36	7.4	B9	6	..	41151b
41	2807	4.3	-12 29	9.2	9.7	F8	2	..	18995b	91	1002	4.4	-64 47	9.2	9.2	Ao	5	..	21452b
42	2773	4.3	-13 47	7.9	8.9	Ko	7	..	18995b	92	1007	4.4	-69 16	9.2	10.3	K2	1	..	21452b
43	6905	4.3	-25 26	6.81	8.3	F8	4	2,9	11015b	93	559	4.4	-74 45	9.9	9.9	Ao	2	..	21453b
44	5387	4.3	-36 43	8.7	8.7	G5	3	..	13055b	94	411	4.4	-79 4	8.7	8.7	Ao	4	..	20869b
45	4943	4.3	-40 40	8.0	7.9	F5	6	..	38418b	95	83	4.4	-88 21	9.7	10.7	K	2	R	22578b
46	4989	4.3	-42 23	10.5	9.5	Ao	3	..	38418b	96	555	4.5	+70 23	8.48	9.26	G5	3	..	37706i
47	4990	4.3	-43 2	2.22	5.3	K5	..	R	28,203	97	2167	4.5	+40 13	7.87	8.15	Fo	4	0,3	37459i
48	4932	4.3	-46 22	9.2	8.9	B9	6	..	38415b	98	2006	4.5	+38 44	7.9	8.7	G5	2	..	37345i
49	4934	4.3	-46 48	10.5	10.1	Ao	2	..	38415b	99	2588	4.5	- 3 11	9.9	10.7	G5	1	..	19392b
50	4443	4.3	-48 32	10.5	10.1	Go	1	..	38415b	100	2587	4.5	- 3 19	10.4	11.4	Ko	1	..	19392b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2810	4.5	m. 0 -12 47	9.5	10.5	Ko	1	..	18995b	51	2755	4.8	0 -9 32	7.64	8.71	K2	6	..	18995b
2	2765	4.5	-17 55	5.74	5.74	Ao	9	..	46198b	52	6966	4.8	-28 33	7.7	8.7	Go	6	..	24494b
3	6909	4.5	-26 1	9.7	10.1	Go	3	..	24494b	53	7177	4.8	-30 0	9.55	9.3	Ao	3	..	24494b
4	5403	4.5	-35 52	9.3	9.5	Ao	2	..	39925b	54	6098	4.8	-32 9	9.3	9.0	A3	4	..	18927b
5	4946	4.5	-41 1	7.2	7.5	Ko	7	..	38418b	55	6100	4.8	-32 55	9.3	9.0	A2	3	..	18927b
6	4994	4.5	-42 57	10.2	9.5	B9	1	..	38418b	56	5623	4.8	-34 57	8.04	8.7	K5	4	..	39925b
7	4965	4.5	-43 10	9.1	9.5	G5	2	..	38418b	57	5409	4.8	-35 11	10.0	9.9	Ao	2	..	39925b
8	5160	4.5	-44 44	8.9	8.1	B8	4	..	38418b	58	5396	4.8	-37 2	10.0	10.1	Ao	2	..	39925b
9	4885	4.5	-45 51	10.5	10.0	Ao	2	..	38415b	59	4941	4.8	-46 36	10.2	10.9	K	1	..	38415b
10	4938	4.5	-46 31	10.2	9.8	F8	3	..	38415b	60	1878	4.8	-58 1	8.6	9.1	F8	2	..	41151b
11	1389	4.5	-58 15	8.3	8.6	F5	3	..	41151b	61	1390	4.8	-58 45	7.7	7.9	A2	2	..	42241b
12	1946	4.6	+31 23	var.	var.	Mc	6	0.5 R	37345i	62	1182	4.8	-61 22	8.1	9.4	G5	1	..	13026b
13	1874	4.6	+29 29	8.1	8.6	F8	4	..	38630i	63	1009	4.8	-69 10	7.6	7.6	B9	8	..	21452b
14	1903	4.6	+26 49	9.1	9.6	F8	3	..	38630i	64	861	4.8	-70 8	4.86	4.69	B3p	..	R	28,203
15	2063	4.6	+22 24	6.09	6.87	G5	8	..	37607i	65	599	4.9	+66 8	7.8	8.1	Fo	6	..	37517i
16	2809	4.6	-12 26	9.0	9.5	F8	2	..	18995b	66	1055	4.9	+62 4	7.7	7.7	Ao	7	..	37517i
17	2774	4.6	-13 48	9.0	10.1	K2	1	..	18995b	67	1054	4.9	+62 3	7.7	7.7	Ao	..	..	..
18	2586	4.6	-19 1	8.0	9.0	Ko	4	..	13154b	68	1225	4.9	+59 11	7.8	8.8	Ko	3	..	37705i
19	6953	4.6	-31 23	9.7	9.3	F5	2	..	18927b	69	2168	4.9	+40 42	7.71	8.78	K2	3	..	37459i
20	5404	4.6	-35 19	8.7	9.6	Fo	3	..	39925b	70	1905	4.9	+26 33	9.5	9.5	Ao	2	..	38630i
21	5289	4.6	-38 28	9.4	8.0	B9	4	..	18436b	71	1917	4.9	+16 0	8.5	8.6	A5	6	2,3	5396m
22	4444	4.6	-48 29	10.2	10.2	G5	1	..	38415b	72	2039	4.9	+14 9	9.2	9.3	A5	3	..	5396m
23	1957	4.6	-52 46	9.1	9.6	A	1	..	40275b	73	2040	4.9	+14 3	9.2	10.2	Ko	4	..	5396m
24	2010	4.6	-57 4	6.58	7.8	G5	..	5,3	56,126	74	2049	4.9	+13 45	9.6	10.4	G5	1	R	5396m
25	1168	4.6	-62 27	7.28	7.6	B9	9	..	21452b	75	2049	4.9	+13 45	9.6	10.4	G5	1	R	5396m
26	2174	4.7	+7 55	8.1	9.1	Ko	3	..	38198i	76	1981	4.9	+12 21	8.5	8.5	Ao	2	..	38283i
27	2131	4.7	+5 37	8.3	9.3	Ko	2	..	37606i	77	2140	4.9	-0 40	8.5	8.9	F5	5	..	19392b
28	2802	4.7	-3 10	9.5	10.0	F8	2	..	19392b	78	2212	4.9	-1 56	9.9	10.0	A3	3	..	19392b
29	2589	4.7	-3 38	9.0	9.8	G5	4	..	19392b	79	2740	4.9	-7 42	9.5	10.3	G5	2	..	19231b
30	2736	4.7	-7 46	9.0	10.0	Ko	3	..	19231b	80	2775	4.9	-13 27	7.5	8.6	K2	8	..	18995b
31	2592	4.7	-8 13	8.5	9.0	F8	4	..	19231b	81	2763	4.9	-14 28	10.1	10.1	Ao	1	..	18995b
32	2593	4.7	-8 23	5.66	6.44	G5	..	..	56,86	82	6297	4.9	-27 45	8.28	9.0	Ko	4	..	24494b
33	2714	4.7	-15 12	9.21	9.77	Go	2	..	13154b	83	6971	4.9	-28 24	8.5	9.8	F8	1	..	24494b
34	2803	4.7	-20 31	7.42	8.3	Ko	5	..	13144b	84	5625	4.9	-34 54	8.0	8.2	A5	5	..	39925b
35	7771	4.7	-24 26	7.9	9.8	Mb	2	..	24494b	85	4889	4.9	-45 51	8.6	8.7	B2	3	..	38415b
36	6910	4.7	-25 13	9.7	10.4	Ko	1	..	24494b	86	4682	4.9	-47 44	8.8	9.2	Ko	4	..	38415b
37	6774	4.7	-26 38	8.9	9.5	F8	3	..	24494b	87	3868	4.9	-50 13	10.0	9.6	F2	4	..	38415b
38	6957	4.7	-31 33	9.5	9.0	A2	3	..	18927b	88	3869	4.9	-50 24	8.9	9.6	K2	4	..	38415b
39	6956	4.7	-32 3	8.3	8.7	Ko	4	..	18927b	89	2040	4.9	-54 55	8.0	8.2	Ao	5	0,7	41151b
40	5492	4.7	-37 54	10.0	10.1	G5	1	..	39925b	90	1094	4.9	-63 24	8.3	9.5	K5	2	..	21452b
41	5292	4.7	-38 22	7.32	7.5	A2	7	..	18436b	91	779	4.9	-72 12	4.50	4.92	F5	..	5, R	28,203
42	5212	4.7	-39 11	10.2	9.9	A3	1	..	39925b	92	1488	5.0	+50 52	6.59	6.59	Ao	8	..	38240i
43	4951	4.7	-40 54	9.0	8.9	Ao	5	..	38418b	93	2141	5.0	-1 7	9.2	10.0	G5	1	..	19392b
44	4969	4.7	-44 0	9.8	9.8	Ao	3	..	38418b	94	2591	5.0	-3 58	9.9	10.4	F8	1	..	19392b
45	4447	4.7	-48 42	9.2	10.2	Ko	2	..	38415b	95	2741	5.0	-8 10	9.0	10.2	K5	1	..	19231b
46	4446	4.7	-49 3	8.8	9.7	Ko	1	..	38415b	96	2506	5.0	-23 7	8.6	9.2	G5	2	..	13144b
47	4142	4.7	-50 4	8.03	8.2	F8	7	..	38415b	97	5399	5.0	-36 25	9.3	9.1	Ao	3	..	13055b
48	2038	4.7	-54 10	8.5	9.7	K2	2	..	40275b	98	5398	5.0	-37 6	10.0	11.3	Ao	1	..	39925b
49	2065	4.8	+22 3	8.0	8.3	Fo	4	..	37607i	99	5496	5.0	-37 43	10.7	10.2	A	1	..	39925b
50	2739	4.8	-8 2	8.4	9.6	K5	2	..	19231b	100	4683	5.0	-47 58	11.5	10.1	Ao	2	..	38415b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3870	5.0	-51 2	var.	var.	G5	6	R	38415b	51	2738	5.3	-5 45	7.56	8.56	Ko	7	..	19231b
2	1393	5.0	-58 47	7.50	7.9	A3	3	..	42241b	52	2598	5.3	-8 14	8.6	8.7	A3	4	..	19231b
3	1688	5.1	+45 13	7.52	8.52	Ko	4	0,4	38639i	53	2815	5.3	-12 43	9.1	9.4	Fo	3	..	18995b
4	2592	5.1	-3 47	9.9	10.9	Ko	1	..	19392b	54	2596	5.3	-18 15	8.8	9.8	Ko	3	..	13154b
5	2559	5.1	-4 12	9.2	10.2	Ko	2	..	19392b	55	2638	5.3	-19 13	9.5	10.1	A3	2	..	13154b
6	2507	5.1	-22 12	7.94	9.0	Ko	5	..	13144b	56	2637	5.3	-19 20	8.5	9.5	Ko	3	..	13154b
7	7779	5.1	-24 44	9.2	10.7	K2	1	..	24494b	57	6306	5.3	-28 5	8.9	9.2	A2	4	..	24494b
8	6913	5.1	-25 37	9.4	10.3	K2	1	..	24494b	58	7184	5.3	-29 41	11.4	10.8	A	1	..	24494b
9	7182	5.1	-29 45	9.7	10.8	K5	1	..	24494b	59	4963	5.3	-40 12	9.28	9.7	G5	2	..	39925b
10	5413	5.1	-35 31	9.0	9.1	Ao	3	..	39925b	60	5010	5.3	-42 56	9.0	8.3	B8	5	..	38418b
11	5304	5.1	-38 9	10.2	8.9	Ao	3	..	18436b	61	4152	5.3	-49 11	9.8	10.2	Ko	1	..	38415b
12	4957	5.1	-40 7	10.9	10.0	A2	1	..	39925b	62	4155	5.3	-49 43	9.6	9.6	G5	2	..	38415b
13	4840	5.1	-41 16	9.4	9.7	Ao	2	..	38418b	63	2017	5.3	-56 59	8.9	8.8	Ao	3	..	41151b
14	4947	5.1	-46 50	10.5	10.4	F2	2	..	38415b	64	1004	5.3	-65 5	8.8	8.8	B9	5	..	21452b
15	4452	5.1	-48 11	11.5	10.4	A	1	..	38415b	65	1208	5.4	+57 21	7.08	8.08	Ko	6	..	37705i
16	2150	5.1	-53 53	8.3	8.8	A2	6	..	40275b	66	1955	5.4	+35 7	8.5	9.7	K5	1	..	37345i
17	1078	5.1	-65 46	8.5	9.5	Ko	2	..	21452b	67	1992	5.4	+15 35	9.9	9.9	Ao	3	..	5396m
18	1037	5.1	-67 8	9.6	9.9	F	1	..	21452b	68	1993	5.4	+15 22	10.6	11.6	Ko	1	..	5396m
19	785	5.1	-71 14	10.2	10.2	Ao	2	E	21452b	69	2050	5.4	+12 57	9.2	9.7	F8	3	3,I	5396m
20	600	5.2	+66 12	7.8	8.1	F2	6	..	37517i	70	2247	5.4	+ 1 28	8.5	8.9	F5	5	..	37606i
21	1371	5.2	+56 43	8.8	9.8	Ko	1	..	37705i	71	2594	5.4	- 3 23	8.4	8.5	A2	6	..	19392b
22	1948	5.2	+37 10	8.8	9.9	K2	1	..	37345i	72	2593	5.4	- 4 5	9.2	10.3	K2	2	..	19392b
23	2041	5.2	+14 40	9.04	9.82	G5	4	5,I	5396m	73	2568	5.4	-11 58	10.4	10.5	A3	2	..	18995b
24	2472	5.2	+ 0 21	8.1	8.5	F5	4	..	37606i	74	2766	5.4	-14 43	8.6	8.9	Fo	4	..	13154b
25	2471	5.2	+ 0 7	8.1	9.3	K5	2	..	37606i	75	2722	5.4	-15 52	9.7	9.7	Ao	2	..	13154b
26	2719	5.2	-15 23	9.9	10.5	Go	2	..	46198b	76	6918	5.4	-25 24	7.18	7.7	Ao	5	0,9	11015b
27	2592	5.2	-18 38	8.8	8.9	A5	5	..	13154b	77	6786	5.4	-26 36	10.2	10.3	G5	1	..	24494b
28	5792	5.2	-33 49	10.4	10.1	A2	1	..	18927b	78	7185	5.4	-29 25	6.81	7.8	Ko	8	..	24494b
29	5627	5.2	-34 28	8.7	9.3	Ao	2	..	18927b	79	5419	5.4	-35 51	10.0	10.1	Fo	2	..	39925b
30	5417	5.2	-35 42	10.4	9.6	Ao	2	..	39925b	80	5502	5.4	-37 19	8.7	9.0	Ko	2	..	39925b
31	5416	5.2	-35 44	9.0	9.0	A2	3	..	39925b	81	5220	5.4	-39 56	10.2	9.9	A3	1	..	39925b
32	4959	5.2	-40 18	9.8	9.7	F2	2	..	39925b	82	4844	5.4	-41 8	10.7	10.0	B9	2	..	38418b
33	5167	5.2	-45 6	9.29	10.1	Ko	1	..	38418b	83	1885	5.4	-57 43	6.9	7.6	G5	2	..	42241b
34	4687	5.2	-47 16	8.5	8.4	A3	7	..	38415b	84	1318	5.4	-60 46	8.6	8.9	Fo	3	..	38748b
35	4686	5.2	-47 22	10.5	9.0	Ao	4	..	38415b	85	787	5.4	-71 21	9.1	9.5	F5	2	E	21452b
36	4685	5.2	-47 56	9.1	9.8	G5	2	..	38415b	86	1733	5.5	+48 43	9.0	9.8	G5	2	..	38240i
37	4455	5.2	-48 17	10.9	10.5	G5	1	..	38415b	87	2056	5.5	+25 49	8.7	9.7	Ko	2	..	38630i
38	3875	5.2	-50 44	10.5	9.9	A2	2	..	38415b	88	2115	5.5	+ 6 45	8.5	8.5	Ao	3	..	9462b
39	3521	5.2	-51 6	9.1	9.3	A2	4	..	38415b	89	2805	5.5	- 3 1	7.6	7.7	A2	9	..	19392b
40	3518	5.2	-51 21	8.5	9.3	Ko	3	..	40275b	90	2816	5.5	-12 46	8.8	8.9	A3	7	..	18995b
41	1965	5.2	-52 54	9.6	9.6	A	1	..	40275b	91	2701	5.5	-16 27	7.08	7.36	Fo	8	..	13154b
42	2045	5.2	-54 42	8.3	8.5	A3	6	3,4	40275b	92	2808	5.5	-20 19	8.98	9.6	Go	1	..	18977b
43	1171	5.2	-62 36	9.0	10.0	Ko	2	2,2	21452b	93	2809	5.5	-21 1	8.2	8.6	Ao	5	..	13144b
44	1079	5.2	-65 45	8.1	9.2	K2	3	..	21452b	94	4950	5.5	-46 22	9.8	10.1	Ko	2	..	38415b
45	1011	5.2	-69 50	8.1	9.1	Ko	6	..	21452b	95	4458	5.5	-48 53	8.3	8.5	Ao	6	..	38415b
46	359	5.3	+77 29	6.88	6.88	Ao	9	..	37714i	96	2157	5.5	-53 37	9.4	9.4	Ao	3	..	40275b
47	1478	5.3	+45 55	8.5	9.0	F8	2	..	38240i	97	1886	5.5	-57 9	8.4	8.8	F8	4	..	41151b
48	1925	5.3	+36 3	9.2	9.2	Ao	1	..	37345i	98	1173	5.5	-62 29	9.3	9.4	A2	4	..	21452b
49	2171	5.3	+19 18	8.1	9.2	K2	2	..	37607i	99	1815	5.6	+49 37	7.67	8.45	G5	5	..	38240i
50	2804	5.3	- 2 43	9.5	10.5	Ko	2	..	19392b	100	1994	5.6	+15 38	10.6	11.4	G5	1	..	5396m

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2761	5.6	m. -11 2	9.0	10.1	K2	I	..	18995b	51	1095	5.8	o -63 32	9.2	9.2	Ao	3	..	21452b
2	2570	5.6	-11 13	8.6	10.0	Ma	2	..	18995b	52	1920	5.9	+15 59	9.6	10.6	Ko	2	..	5396m
3	6974	5.6	-32 1	11.4	10.1	A	I	..	18927b	53	2600	5.9	- 8 29	8.6	8.7	A3	3	..	19231b
4	5796	5.6	-33 45	10.2	9.9	A5	I	..	18927b	54	2703	5.9	-16 34	8.6	8.9	Fo	5	..	13154b
5	4969	5.6	-40 22	11.1	9.7	Ao	I	..	39925b	55	2512	5.9	-22 46	6.49	7.3	Ao	7	..	11015b
6	5014	5.6	-42 47	10.0	9.5	A2	2	..	38418b	56	4975	5.9	-40 58	9.0	8.3	Ao	4	..	38418b
7	5170	5.6	-44 58	9.04	10.7	Ma	..	..	M	57	4852	5.9	-42 6	10.4	10.3	Ao	1	..	38418b
8	4161	5.6	-49 29	10.2	10.2	A2	I	..	38415b	58	4989	5.9	-43 29	9.0	9.6	B	2	..	38418b
9	2158	5.6	-53 43	9.1	9.2	B8	3	..	40275b	59	5177	5.9	-44 10	8.2	9.0	K2	3	..	38418b
10	2048	5.6	-54 6	9.1	10.0	Ko	2	..	40275b	60	5178	5.9	-44 16	10.5	9.8	A5	2	..	38418b
11	1081	5.6	-65 20	9.1	9.9	G5	2	..	21452b	61	4956	5.9	-46 15	9.6	10.7	K2	1	..	38415b
12	1080	5.6	-65 58	9.7	9.7	Ao	2	..	21452b	62	4695	5.9	-47 19	9.4	8.7	B9	5	..	38415b
13	1038	5.6	-68 5	8.5	8.5	Ao	7	..	21452b	63	4694	5.9	-47 46	10.9	10.7	A	1	..	38415b
14	602	5.7	+66 19	8.7	8.8	A2	3	..	37517i	64	1097	5.9	-63 38	8.7	9.5	G5	1	..	40096b
15	831	5.7	+63 10	8.1	8.9	G5	3	..	37517i	65	1039	5.9	-67 50	8.6	9.1	F8	4	..	21452b
16	2216	5.7	+38 59	9.1	9.5	F5	1	..	37345i	66	1820	6.0	+33 25	9.1	9.2	A5	2	..	37345i
17	1930	5.7	+35 54	7.9	9.1	K5	3	..	37345i	67	1879	6.0	+29 17	8.1	9.1	Ko	3	..	3863oi
18	2214	5.7	- 1 26	9.9	10.3	F5	1	..	19392b	68	2051	6.0	+13 17	8.5	9.6	K2	3	2,2	5396m
19	2213	5.7	- 1 57	9.2	9.2	Ao	5	..	19392b	69	2133	6.0	+ 9 23	7.12	8.19	K2	4	..	38198i
20	2769	5.7	-14 30	7.61	7.67	A2	6	..	13154b	70	2476	6.0	+ 0 3	9.2	10.3	K2	2	..	19392b
21	6981	5.7	-28 21	8.5	9.5	G5	3	..	24494b	71	2143	6.0	- 1 9	8.0	8.5	F8	7	..	19392b
22	7194	5.7	-29 57	5.56	6.6	A3	..	I,R	56,126	72	2725	6.0	-16 4	9.5	9.8	F2	1	..	13154b
23	6120	5.7	-32 13	9.6	9.6	Fo	2	..	18927b	73	7197	6.0	-29 20	9.2	9.3	Ao	3	..	24494b
24	5409	5.7	-36 35	9.0	10.2	K2	1	..	39925b	74	5511	6.0	-37 7	10.2	9.6	F5	2	..	39925b
25	5408	5.7	-36 53	10.4	10.1	A2	1	..	39925b	75	5019	6.0	-42 14	9.6	10.3	K5	1	..	38418b
26	4971	5.7	-40 38	8.7	8.0	Ao	6	..	38418b	76	4906	6.0	-45 7	8.74	8.0	Ao	6	0,6	38415b
27	5017	5.7	-42 54	8.9	8.0	B2	5	..	38418b	77	1098	6.0	-63 38	8.7	9.5	G5	1	..	40096b
28	4987	5.7	-43 23	9.1	9.0	Fo	3	..	38418b	78	974	6.0	-66 41	10.1	10.2	A5	1	..	21452b
29	3533	5.7	-51 12	9.4	10.2	Ko	1	..	38415b	79	301	6.0	-82 14	9.4	9.4	Ao	2	..	13465b
30	1976	5.7	-52 50	8.8	9.1	Ao	2	..	40275b	80	832	6.1	+63 35	9.0	10.0	K	1	..	37517i
31	2162	5.7	-53 58	7.6	7.6	B8	7	..	40275b	81	2049	6.1	+24 2	8.7	8.7	A	2	..	37607i
32	2054	5.7	-54 10	8.5	9.1	F5	4	..	40275b	82	1987	6.1	+20 50	8.9	9.5	G	3	R	37607i
33	1320	5.7	-60 21	8.3	8.2	Ao	4	..	41151b	83	2747	6.1	- 7 11	9.5	9.6	A2	2	..	19231b
34	1321	5.7	-60 46	8.6	9.4	Ao	2	..	38748b	84	2771	6.1	-14 39	9.9	10.7	G5	1	..	18995b
35	452	5.8	+73 22	5.89	5.95	A2	10	..	37714i	85	6930	6.1	-25 53	7.28	7.7	B5	4	2,8	11015b
36	724	5.8	+63 55	9.3	10.1	G5	1	..	37517i	86	4696	6.1	-47 49	7.8	8.7	G5	5	..	38415b
37	1322	5.8	+55 47	7.9	8.9	Ko	4	..	37705i	87	4171	6.1	-49 25	10.2	10.2	Go	1	..	38415b
38	2007	5.8	+37 57	9.1	9.7	Go	1	..	37459i	88	1892	6.1	-57 55	8.3	9.1	G5	1	..	41151b
39	1819	5.8	+33 31	8.9	10.0	K2	1	..	37345i	89	1082	6.1	-65 51	9.6	10.2	Go	2	..	21452b
40	2129	5.8	+ 9 9	9.0	9.3	F2	1	..	38198i	90	894	6.1	-68 10	9.3	10.4	K2	1	..	21452b
41	4970	5.8	-40 34	10.2	9.4	Ao	2	..	38418b	91	..	6.1	-69 32	Neb.	Neb.	Pe	..	R	76,22
42	4850	5.8	-41 11	10.7	9.7	Ao	1	..	38418b	92	301	6.2	+77 53	9.3	9.9	G	2	..	37714i
43	5176	5.8	-45 3	9.8	10.4	Ao	1	..	38418b	93	1932	6.2	+36 47	8.5	8.6	A2	2	..	37345i
44	4955	5.8	-46 25	9.8	10.4	G5	2	..	38415b	94	2043	6.2	+14 46	9.84	10.62	G5	1	..	5396m
45	4690	5.8	-47 28	10.9	10.7	A	1	..	38415b	95	2216	6.2	- 2 7	9.9	10.2	F2	2	..	19392b
46	4462	5.8	-48 20	10.0	9.6	B9	3	..	38415b	96	2818	6.2	-12 15	8.2	9.0	G5	5	..	18995b
47	4461	5.8	-48 33	9.8	9.6	Ao	3	..	38415b	97	2772	6.2	-15 3	7.56	7.56	Ao	5	..	13154b
48	4167	5.8	-49 51	10.5	10.2	Go	2	..	38415b	98	2772	6.2	-17 24	8.0	8.1	A2	6	..	13154b
49	2164	5.8	-53 11	6.9	7.8	A2	3	0,8	42951b	99	2515	6.2	-22 42	8.0	9.3	K2	3	..	13144b
50	1185	5.8	-62 5	9.7	10.2	F8	1	..	40096b	100	5639	6.2	-34 31	9.4	9.6	A2	2	..	18927b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5022	6.2	-42 10	9.8	9.7	F5	1	..	38418b	51	4861	6.5	-41 36	10.7	10.3	A	1	..	38418b
2	4697	6.2	-47 31	10.2	10.1	B9	2	..	38415b	52	4176	6.5	-49 52	10.9	10.2	Go	1	..	38415b
3	1986	6.2	-52 36	8.9	9.6	Go	3	..	40275b	53	2028	6.5	-56 47	8.3	8.8	Ao	3	..	41151b
4	2169	6.2	-53 24	8.9	9.7	G5	1	..	40275b	54	1289	6.5	-59 9	8.6	8.6	F2	3	..	41151b
5	289	6.3	+81 48	9.3	9.8	F8	2	..	37493i	55	581	6.6	+67 33	7.9	8.2	Fo	7	..	37517i
6	1480	6.3	+46 5	8.7	9.5	G5	1	E	38240i	56	2750	6.6	- 7 39	9.9	10.3	F5	1	..	19231b
7	1829	6.3	+30 43	8.5	8.9	F5	2	..	38630i	57	2773	6.6	-17 33	9.2	10.0	G5	2	..	13154b
8	1909	6.3	+26 27	9.1	9.6	F8	3	..	38630i	58	5643	6.6	-34 57	9.03	10.1	G5	2	..	39925b
9	2138	6.3	+18 27	6.75	6.75	Ao	8	..	37607i	59	5437	6.6	-35 36	9.3	10.2	G5	1	..	39925b
10	1999	6.3	+14 53	9.29	10.07	G5	3	5,1	5396m	60	5423	6.6	-36 26	7.6	8.4	Ko	5	..	13055b
11	2477	6.3	+ 0 42	6.96	7.96	Ko	5	..	37606i	61	4910	6.6	-45 59	9.6	8.9	Ao	4	..	38415b
12	2600	6.3	- 3 31	9.2	10.2	Ko	2	..	19392b	62	4476	6.6	-48 40	10.5	9.9	Ao	2	..	38415b
13	2761	6.3	-10 10	9.66	9.66	Ao	3	..	18995b	63	1997	6.6	-52 20	8.9	9.0	A2	4	..	40275b
14	2715	6.3	-21 20	9.2	9.8	F8	1	..	18977b	64	562	6.6	-75 41	9.3	9.9	Go	3	..	21453b
15	6798	6.3	-26 21	8.7	9.2	Ko	3	..	24494b	65	1934	6.7	+41 18	8.1	9.2	K2	1	..	37459i
16	6319	6.3	-27 47	8.49	10.1	K5	1	..	24494b	66	2120	6.7	+ 5 53	6.21	6.49	Fo	8	..	37606i
17	6983	6.3	-31 16	9.7	10.1	A	1	..	18927b	67	6995	6.7	-31 41	9.5	9.9	Go	1	..	18927b
18	5640	6.3	-34 57	9.64	10.5	A2	2	..	39925b	68	5519	6.7	-37 14	8.5	9.0	B9	3	..	39925b
19	5330	6.3	-38 20	7.55	8.3	K2	3	0,3	39925b	69	4865	6.7	-41 45	8.8	9.2	Ko	3	..	38418b
20	5025	6.3	-42 36	10.9	10.0	A	1	..	38418b	70	4969	6.7	-46 43	9.1	8.3	B8	5	..	38415b
21	4995	6.3	-43 46	7.9	8.0	Ao	7	..	38418b	71	4706	6.7	-47 48	7.8	8.6	G5	6	..	38415b
22	4965	6.3	-46 7	9.0	9.5	K2	2	..	38415b	72	4479	6.7	-48 53	7.2	7.5	B8	10	..	38415b
23	4701	6.3	-47 21	10.0	9.5	Ao	4	..	38415b	73	3893	6.7	-50 13	9.8	9.9	Ao	2	..	38415b
24	4469	6.3	-48 10	8.9	8.7	F5	4	..	38415b	74	3892	6.7	-50 30	9.1	9.4	Ao	4	..	38415b
25	4471	6.3	-49 1	6.41	7.5	A3	10	..	38415b	75	1404	6.7	-58 52	7.6	7.9	A3	3	..	42241b
26	3542	6.3	-51 51	9.6	9.3	A2	3	..	40275b	76	897	6.7	-68 7	8.3	8.6	F2	7	..	21452b
27	863	6.3	-70 34	7.6	8.6	Ko	3	..	22988b	77	1843	6.8	+44 43	8.32	9.50	K5	3	..	38639i
28	1058	6.4	+61 50	5.23	5.73	F8	9	R	37517i	78	2002	6.8	+15 8	9.9	10.7	G5	3	0,1	5396m
29	1319	6.4	+53 27	9.1	10.1	Ko	2	..	38650i	79	2162	6.8	+ 3 33	8.5	8.5	Ao	4	..	37606i
30	1374	6.4	+51 57	9.5	10.1	G	1	..	38240i	80	2217	6.8	- 1 49	9.2	10.2	Ko	3	..	19392b
31	2172	6.4	+40 24	8.7	9.3	Go	2	..	38639i	81	2808	6.8	- 2 44	8.4	9.4	Ko	4	..	19392b
32	2136	6.4	+ 4 12	8.3	8.3	Ao	2	2,2	9462b	82	2762	6.8	-11 4	8.2	9.3	K2	3	..	18995b
33	2601	6.4	- 8 30	9.2	10.3	K2	1	..	19231b	83	6807	6.8	-27 2	8.9	9.5	F5	3	..	24494b
34	2602	6.4	-19 5	8.6	8.9	Fo	3	..	13154b	84	5443	6.8	-35 40	9.6	8.7	Go	3	..	39925b
35	5807	6.4	-34 1	8.1	8.1	A3	5	..	18927b	85	5340	6.8	-38 58	10.2	9.7	Ao	1	..	39925b
36	5433	6.4	-35 31	8.4	9.6	G5	3	..	39925b	86	4986	6.8	-40 54	9.6	9.7	Ko	1	..	38418b
37	4996	6.4	-43 31	9.4	9.2	A3	3	..	38418b	87	4867	6.8	-41 9	8.5	8.5	Ao	5	..	38418b
38	4967	6.4	-46 37	10.0	10.1	Fo	2	..	38415b	88	4866	6.8	-41 57	9.0	8.9	F8	3	..	38418b
39	4968	6.4	-47 4	6.9	7.0	B8	6	1,3	46200b	89	4916	6.8	-45 29	9.1	9.6	G5	3	5,2	38415b
40	1325	6.4	-60 48	9.5	9.5	Ao	2	..	40096b	90	4482	6.8	-48 58	10.9	10.1	A5	1	..	38415b
41	896	6.4	-68 21	7.2	7.3	B5	10	..	21452b	91	3553	6.8	-51 41	6.9	7.5	Ko	3	5,8	42951b
42	1623	6.5	+49 53	9.67	10.09	F5	1	..	38240i	92	2172	6.8	-54 0	7.9	9.4	K5	2	..	40275b
43	1735	6.5	+48 48	8.9	9.7	G5	2	..	38240i	93	1329	6.8	-60 49	9.6	9.7	A2	3	..	40096b
44	2173	6.5	+40 48	7.9	8.3	F5	2	..	37459i	94	1328	6.8	-61 1	9.7	9.7	Ao	3	..	40096b
45	1955	6.5	+34 0	8.2	9.0	G5	2	..	37345i	95	1975	6.9	+42 45	9.0	9.8	G5	2	..	38639i
46	1710	6.5	+28 17	9.5	10.0	F8	1	..	38630i	96	2003	6.9	+15 24	6.40	7.18	G5	7	5,9	37607i
47	2773	6.5	-14 33	8.0	8.0	Ao	5	..	13154b	97	2839	6.9	- 6 34	8.0	9.4	Ma	4	..	19231b
48	6132	6.5	-32 42	8.7	8.4	A2	5	..	18927b	98	5818	6.9	-33 30	8.8	8.8	F5	2	..	18927b
49	5642	6.5	-34 12	9.4	9.6	Ao	3	..	18927b	99	5649	6.9	-35 1	8.8	9.6	Ko	2	..	39925b
50	5436	6.5	-35 35	10.0	9.1	Ao	3	..	39925b	100	5247	6.9	-39 9	9.3	8.6	F5	2	..	39925b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5032	6.9	-42 40	10.5	9.1	A2	3	..	38418b	51	5249	7.2	-39 48	10.2	9.7	Ao	2	..	39925b
2	3894	6.9	-50 12	10.0	10.2	F8	1	..	38415b	52	4992	7.2	-40 16	10.0	11.0	A5	1	..	39925b
3	3895	6.9	-51 4	10.9	10.2	A3	1	..	38415b	53	4994	7.2	-40 50	9.0	8.5	G5	5	..	38418b
4	1191	6.9	-61 32	8.6	8.9	Ao	3	..	13026b	54	5038	7.2	-42 51	7.3	7.1	A2	8	..	38418b
5	1040	6.9	-67 21	9.4	10.0	G	1	..	21452b	55	4973	7.2	-46 42	10.9	10.5	G5	1	..	38415b
6	563	6.9	-74 21	7.3	7.3	Ao	4	..	24452b	56	4491	7.2	-48 47	9.6	9.9	Go	1	..	38415b
7	1650	7.0	+47 24	7.52	8.02	F8	5	..	38240i	57	1084	7.2	-65 26	8.9	9.7	G5	3	..	21452b
8	2139	7.0	+ 4 17	6.11	6.11	Ao	10	2,10	9462b	58	1893	7.3	+43 38	5.30	5.25	B8	..	0,9-	56,86
9	2603	7.0	- 3 55	9.9	10.9	Ko	1	..	19392b	59	1955	7.3	+37 26	8.7	9.7	Ko	1	..	37459i
10	6135	7.0	-33 1	9.4	9.6	A5	1	..	18927b	60	2140	7.3	+17 54	8.7	9.5	G5	2	..	37607i
11	5651	7.0	-34 19	9.0	9.4	A2	3	..	18927b	61	2811	7.3	- 2 12	10.1	10.2	A5	2	..	19392b
12	5445	7.0	-35 41	8.4	8.4	Ao	5	..	39925b	62	2577	7.3	-11 25	8.5	9.7	K5	3	..	18995b
13	5525	7.0	-37 40	9.6	10.1	F	2	..	39925b	63	2825	7.3	-13 0	9.2	10.2	Ko	1	..	18995b
14	5342	7.0	-38 12	9.3	9.7	Ko	2	..	39925b	64	2781	7.3	-13 41	9.2	10.3	K2	1	..	18995b
15	4872	7.0	-41 34	10.0	9.7	Ao	1	..	38418b	65	2728	7.3	-15 44	9.2	9.2	Ao	3	..	13154b
16	5035	7.0	-43 2	10.9	10.0	Ao	1	..	38418b	66	2710	7.3	-16 37	9.5	10.3	G5	1	..	13154b
17	5007	7.0	-43 8	10.2	9.6	A2	3	..	38418b	67	7816	7.3	-24 18	10.4	10.3	A2	1	..	24494b
18	4971	7.0	-46 22	9.4	9.6	Ko	3	..	38415b	68	6338	7.3	-27 21	8.1	10.1	A2	1	..	24494b
19	4485	7.0	-48 45	10.5	9.9	F2	2	..	38415b	69	5656	7.3	-34 42	9.4	10.1	Fo	2	..	39925b
20	3558	7.0	-51 8	9.8	9.6	A3	3	..	38415b	70	5200	7.3	-44 54	10.0	9.8	Ko	1	..	38418b
21	2002	7.0	-52 44	8.7	9.0	Ao	3	..	40275b	71	2010	7.3	-52 13	9.0	9.1	A3	3	..	40275b
22	1193	7.0	-61 27	9.4	10.2	G5	2	..	40096b	72	2011	7.3	-52 44	9.6	9.6	Ao	1	..	40275b
23	563	7.0	-75 8	9.68	9.6	A2	4	..	21453b	73	1206	7.3	-60 6	7.85	8.8	K2	2	..	41151b
24	298	7.0	-81 43	8.8	9.9	K2	1	..	20869b	74	1041	7.3	-67 39	8.8	10.0	K5	2	..	21452b
25	245	7.1	+83 20	8.8	8.9	A5	4	..	37546i	75	568	7.3	-76 10	7.3	7.3	B9	9	..	21453b
26	1988	7.1	+21 5	8.1	8.7	Go	3	..	37607i	76	2812	7.4	- 2 35	9.2	10.0	G5	1	..	19392b
27	2032	7.1	+16 56	7.6	7.6	Ao	5	2,9	37607i	77	2564	7.4	- 4 19	8.2	9.2	Ko	3	..	19231b
28	2810	7.1	- 3 7	9.5	10.5	Ko	1	..	19392b	78	2843	7.4	- 6 23	9.2	9.6	F5	2	..	19231b
29	2604	7.1	- 4 9	7.42	7.50	A3	8	..	19231b	79	2844	7.4	- 6 31	7.6	8.6	Ko	6	..	19231b
30	2840	7.1	- 6 32	9.2	9.3	A2	2	..	19231b	80	2826	7.4	-12 57	8.7	9.7	Ko	2	..	18995b
31	2754	7.1	- 7 42	8.8	9.6	G5	3	..	19231b	81	2644	7.4	-19 20	5.81	7.1	Ko	9	..	13154b
32	2706	7.1	-16 24	8.4	8.4	Ao	4	..	13154b	82	5657	7.4	-34 33	8.7	9.6	Ko	3	..	18927b
33	5037	7.1	-42 54	10.9	9.2	Ao	2	..	38418b	83	5454	7.4	-35 20	7.37	7.8	A2	6	1,8	18436b
34	4918	7.1	-45 10	8.74	9.3	Ko	4	0,3	38415b	84	5252	7.4	-39 11	8.0	8.8	Ko	2	..	39925b
35	4917	7.1	-45 57	10.9	10.4	F5	1	..	38415b	85	5040	7.4	-42 52	8.0	7.1	Fo	6	..	38418b
36	4712	7.1	-47 19	9.6	9.0	B9	4	..	38415b	86	5206	7.4	-44 27	4.96	5.6	B5	..	2,7-	28,203
37	4486	7.1	-48 23	10.5	10.2	A2	1	..	38415b	87	4185	7.4	-49 13	10.2	10.1	Ao	2	..	38415b
38	4181	7.1	-49 56	9.2	9.3	Ao	4	..	38415b	88	1195	7.4	-61 25	9.2	10.2	Ko	1	..	40096b
39	3897	7.1	-50 35	9.1	9.6	F2	3	..	38415b	89	1016	7.4	-69 18	10.3	10.4	A3	1	..	21452b
40	2008	7.1	-52 14	8.2	9.0	G5	4	..	40275b	90	1375	7.5	+56 2	7.46	7.46	Ao	7	..	37705i
41	2071	7.1	-54 17	9.0	8.9	Ao	3	..	40275b	91	1996	7.5	+11 4	7.9	8.3	F5	3	..	38283i
42	1282	7.2	+54 29	9.0	9.1	A2	2	..	37705i	92	2565	7.5	- 4 53	8.25	9.32	K2	5	..	19231b
43	1845	7.2	+44 14	8.8	9.2	F5	2	..	38639i	93	2845	7.5	- 6 42	6.02	6.08	A2	6	..	9006b
44	1960	7.2	+35 31	7.9	7.9	Ao	3	..	37345i	94	2766	7.5	-10 40	7.86	7.86	Ao	7	..	18995b
45	2034	7.2	+17 2	7.9	8.9	Ko	5	5,1	5396m	95	2782	7.5	-13 27	8.7	9.0	F2	5	..	18995b
46	2575	7.2	-11 46	8.7	9.1	F5	6	..	18995b	96	2776	7.5	-14 52	9.0	10.2	K5	1	3,1	18995b
47	2708	7.2	-16 35	9.2	10.2	Ko	1	..	13154b	97	5015	7.5	-43 39	8.6	8.1	F5	5	..	38418b
48	2782	7.2	-17 12	9.5	9.5	Ao	3	..	46198b	98	4980	7.5	-46 6	10.9	10.4	F2	1	..	38415b
49	6337	7.2	-28 1	7.75	8.1	B9	8	..	24494b	99	480	7.5	-78 0	10.3	10.4	A5	2	..	21453b
50	5449	7.2	-35 48	8.7	9.0	A2	3	..	39925b	100	1911	7.6	+25 50	8.6	9.7	K2	1	..	38630i

79200

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2608	7.6	3 38	9.9	10.4	F8	1	..	19392b	51	5666	7.9	-34 32	8.7	9.1	Fo	5	..	18927b
2	6342	7.6	-27 54	7.12	8.0	Ko	6	..	24494b	52	5463	7.9	-35 28	9.6	10.5	K5	1	..	39925b
3	5254	7.6	-39 7	10.9	10.3	F2	1	..	39925b	53	5462	7.9	-35 42	10.2	10.5	Ao	1	..	39925b
4	4879	7.6	-41 26	10.4	9.7	B9	2	..	38418b	54	5536	7.9	-37 16	9.6	9.6	F8	2	..	39925b
5	5210	7.6	-44 32	8.0	8.3	Fo	5	..	38418b	55	5537	7.9	-37 36	9.6	10.8	K5	1	..	39925b
6	2017	7.6	-52 38	7.4	8.1	B9	6	..	40275b	56	4885	7.9	-41 41	10.7	10.0	A	2	R	38418b
7	2186	7.6	-53 50	8.9	10.0	K2	1	..	40275b	57	3572	7.9	-51 13	9.0	9.7	Ko	3	..	38415b
8	1197	7.6	-61 52	9.1	9.4	Fo	3	..	40096b	58	3571	7.9	-52 1	9.4	10.4	Ao	3	..	40275b
9	1100	7.6	-63 24	9.1	9.2	A2	2	..	21452b	59	1181	7.9	-62 30	9.2	10.2	Ko	1	..	40096b
10	1320	7.7	+53 7	8.1	9.2	K2				60	977	7.9	-66 20	9.4	9.7	F2	3	..	21452b
11	1321	7.7	+53 7	8.1	9.2	K2	3	R	37705i	61	900	7.9	-68 55	10.1	10.7	Go	2	..	21452b
12	1489	7.7	+50 52	9.3	9.9	G	1	..	38240i	62	303	8.0	+78 23	8.0	8.8	G5	5	..	37714i
13	1912	7.7	+25 49	9.2	9.6	F5	1	..	38630i	63	1482	8.0	+45 51	9.1	9.5	F5	3	..	4904m
14	2054	7.7	+24 42	7.81	8.81	Ko	3	0,3	38630i	64	1956	8.0	+10 43	7.7	8.7	Ko	2	..	38283i
15	2004	7.7	+15 11	9.2	9.2	Ao	4	2,2	5396m	65	2566	8.0	-4 47	8.6	9.8	K5	2	..	19231b
16	2152	7.7	-0 49	8.6	9.7	K2	2	..	19392b	66	2729	8.0	-15 17	9.35	10.53	K5	1	..	18995b
17	2218	7.7	-1 40	10.6	10.7	A2	2	..	19392b	67	6966	8.0	-25 11			F5			
18	2814	7.7	-2 37	7.24	8.24	Ko	7	..	19392b	68		8.0	-25 11	7.36	8.1	A2	7	R	24494b
19	2767	7.7	-10 19	8.66	9.66	Ko	3	..	18995b	69	5668	8.0	-34 34	9.0	10.2	K2	1	..	18927b
20	2768	7.7	-11 9	9.0	9.4	F5	3	..	18995b	70	5360	8.0	-38 10	10.0	10.0	G5	2	..	39925b
21	2783	7.7	-13 51	10.1	10.1	Ao	1	..	18995b	71	5257	8.0	-39 55	8.7	8.3	Ao	3	..	39925b
22	7018	7.7	-31 11	9.2	9.0	A3	3	..	18927b	72	5003	8.0	-40 41	9.3	10.2	K2	2	..	38418b
23	5460	7.7	-35 36	10.2	10.1	Ao	2	..	39925b	73	5220	8.0	-44 8	9.6	10.4	G5	1	..	38418b
24	5534	7.7	-37 16	10.0	9.6	A2	2	..	39925b	74	4929	8.0	-45 40	10.0	9.8	Ao	1	..	38418b
25	5355	7.7	-39 3	9.4	9.4	Ao	3	..	39925b	75	4987	8.0	-46 10	5.92	5.75	B3	..	0,7-	56,126
26	4881	7.7	-41 12	7.4	7.2	A2	7	..	38418b	76	4724	8.0	-47 40	10.2	11.7	F5	1	..	38415b
27	5047	7.7	-43 3	10.2	10.5	G5	1	..	38418b	77	4194	8.0	-50 2	9.6	9.3	Ao	3	..	38415b
28	5019	7.7	-43 54	10.2	10.0	A2	2	..	38418b	78	3575	8.0	-51 42	9.0	8.1	B8	5	..	38415b
29	5020	7.7	-44 0	10.9	10.4	A	1	..	38418b	79	978	8.0	-66 8	8.8	9.1	Fo	5	..	21452b
30	4983	7.7	-46 47	10.9	10.1	Go	2	..	38415b	80	1626	8.1	+50 22	9.5	10.7	K5	1	..	38240i
31	4497	7.7	-48 50	8.5	8.7	F2	5	..	38415b	81	1846	8.1	+43 52	8.7	9.1	F5	3	..	38639i
32	4190	7.7	-49 19	8.4	8.7	Ao	6	..	38415b	82	1962	8.1	+34 14	8.2	9.0	G5	3	..	37345i
33	1334	7.7	-60 16	8.45	9.4	K2	1	..	41151b	83	2129	8.1	+6 14	7.9	7.9	B9	8	..	37606i
34	1727	7.8	+26 51	9.1	9.9	G5	1	..	38630i	84	2154	8.1	-0 17	9.6	10.2	Go	2	..	19392b
35	2062	7.8	+25 40	8.2	8.3	A5	2	..	38630i	85	2850	8.1	-7 8	8.6	9.1	F8	4	..	19231b
36	2608	7.8	-8 31	8.8	9.3	F8	2	..	19231b	86	2610	8.1	-8 17	8.4	9.5	K2	3	..	19231b
37	2769	7.8	-11 5	8.0	8.0	Ao	7	..	18995b	87	2786	8.1	-13 50	9.9	10.0	A2	2	..	18995b
38	2578	7.8	-11 16	9.5	9.6	A2	4	..	18995b	88	2778	8.1	-15 3	9.9	10.3	F5	1	..	18995b
39	6347	7.8	-27 50	9.5	9.8	F2	2	..	24494b	89	2715	8.1	-16 23	8.5	8.5	B9	5	..	13154b
40	5442	7.8	-37 3	9.4	9.3	A3	3	..	39925b	90	7019	8.1	-28 32	6.77	7.3	B8	10	..	24494b
41	5358	7.8	-38 51	6.12	6.5	B9	..	1,10	56,126	91	7226	8.1	-29 23	9.4	9.7	A2	2	..	24494b
42	4928	7.8	-45 35	9.4	9.0	A2	3	..	38418b	92	7022	8.1	-31 9	9.4	9.0	Ao	4	..	18927b
43	3570	7.8	-51 29	9.2	9.3	B9	3	..	38415b	93	7023	8.1	-31 30	8.2	8.2	Ao	6	..	18927b
44	976	7.8	-66 57	10.0	10.0	A	1	..	21452b	94	5004	8.1	-40 36	9.4	9.4	A5	4	..	38418b
45	569	7.8	-76 24	8.4	8.9	F8	5	..	21453b	95	5026	8.1	-43 18	9.2	10.1	Ko	1	..	38418b
46	1376	7.9	+55 52	9.3	9.9	Go	2	..	37705i	96	4930	8.1	-45 49	9.4	9.3	A3	2	..	38418b
47	1283	7.9	+53 54	8.7	9.7	Ko	2	..	38240i	97	4504	8.1	-48 16	9.8	9.4	Ao	3	..	38415b
48	1991	7.9	+21 42	6.09	6.09	Ao	9	..	37607i	98	1335	8.1	-61 5	9.1	9.7	Ao	2	..	40096b
49	2153	7.9	-1 7	9.4	9.9	F8	2	..	19392b	99	901	8.1	-68 30	8.8	8.8	B8	5	..	21452b
50	6963	7.9	-26 4	8.0	9.5	Ko	4	..	24494b	100	514	8.2	+69 30	9.0	9.8	G5	2	..	37706i

THE HENRY DRAPER CATALOGUE.

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1490	8.2	+51 34	9.8	10.8	K	1	..	38240i	51	1419	8.4	-58 33	3.56	3.39	B3	..	R	28,203
2	1653	8.2	+47 3	8.9	9.5	Go	4	..	4904m	52	563	8.5	+68 27	9.8	9.8	A	2	..	37517i
3	1914	8.2	+26 35	10.0	11.0	Ko	1	..	3863oi	53	1227	8.5	+59 8	9.1	9.6	F8	2	..	37705i
4	1998	8.2	+11 33	9.2	9.5	F	1	..	38283i	54	1211	8.5	+57 10	5.48	6.66	K5	8	..	37705i
5	2183	8.2	+ 8 28	8.5	9.6	K2	1	..	9462b	55	2171	8.5	+ 3 16	9.2	10.2	Ko	1	..	37606i
6	2169	8.2	+ 3 47	8.5	9.5	Ko	2	..	37606i	56	2221	8.5	- 1 59	9.4	10.6	K5	1	..	19392b
7	2567	8.2	- 4 16	9.2	10.3	K2	1	..	19392b	57	2611	8.5	- 3 58	9.2	9.8	Go	2	..	19392b
8	2780	8.2	-15 1	7.36	7.70	F2	6	..	13154b	58	2751	8.5	- 5 25	9.2	9.6	F5	2	..	19231b
9	2716	8.2	-17 7	9.7	10.3	Go	1	..	46198b	59	2609	8.5	-18 23	9.2	9.2	Ao	4	..	13154b
10	6822	8.2	-26 6	8.3	10.1	Ma	1	..	24494b	60	6972	8.5	-25 13	9.95	10.1	Ao	2	..	24494b
11	5031	8.2	-43 13	10.2	10.1	F5	2	..	38418b	61	7028	8.5	-31 7	8.5	8.8	F8	4	..	18927b
12	4990	8.2	-46 29	8.4	8.0	A2	7	2,3	38415b	62	5472	8.5	-35 16	7.9	8.7	Ko	4	0,2	39925b
13	2195	8.2	-54 4	9.1	9.1	Ao	2	..	40275b	63	5452	8.5	-36 58	9.4	10.5	K5	1	..	39925b
14	1909	8.2	-57 15	8.2	8.5	A3	4	..	41151b	64	5547	8.5	-37 38	11.4	9.6	Ao	2	..	39925b
15	557	8.3	+70 18	7.14	8.14	Ko	8	..	37706i	65	5055	8.5	-42 11	9.1	8.9	Ao	5	..	38418b
16	582	8.3	+67 45	9.0	9.5	F8	3	..	37517i	66	4731	8.5	-47 37	10.5	9.6	A2	2	..	38415b
17	1963	8.3	+33 54	8.5	8.8	F2	3	..	37345i	67	2203	8.5	-53 42	8.9	8.8	B9	3	..	40275b
18	2063	8.3	+25 43	8.5	9.5	Ko	2	..	3863oi	68	1912	8.5	-57 55	8.3	8.2	B9	3	..	41151b
19	2048	8.3	+14 37	8.9	..	R5	3	0,3	5396m	69	1420	8.5	-58 48	8.9	9.4	A	1	..	41151b
20	2144	8.3	+ 4 15	7.6	7.7	A2	5	..	37606i	70	864	8.5	-70 42	8.4	8.5	A3	3	..	22988b
21	2170	8.3	+ 3 20	8.9	9.7	G5	2	..	37606i	71	1847	8.6	+44 28	8.9	9.5	Go	4	R	4904m
22	2759	8.3	- 7 54	9.0	10.0	Ko	1	..	19231b	72	1896	8.6	+42 59	8.7	9.7	Ko	4	2,4	4904m
23	2788	8.3	-17 49	9.2	9.3	A3	2	..	46198b	73	2065	8.6	+25 26	7.02	8.02	Ko	5	..	3863oi
24	2607	8.3	-18 56	8.6	9.7	K2	1	..	13154b	74	2147	8.6	+18 40	8.7	9.3	Go	3	..	37607i
25	2725	8.3	-21 25	9.2	9.8	A5	1	..	18977b	75	2139	8.6	+ 4 50	8.06	8.62	Go	2	..	37606i
26	5841	8.3	-33 55	8.1	8.7	Fo	4	..	18927b	76	2612	8.6	- 3 32	9.7	10.2	F8	3	..	19392b
27	5673	8.3	-34 34	9.4	10.1	Ao	2	..	18927b	77	2852	8.6	- 6 36	9.9	10.0	A2	1	..	19231b
28	5365	8.3	-38 41	9.1	8.8	A3	4	..	18436b	78	2779	8.6	-10 41	8.5	8.8	Fo	4	..	18995b
29	4889	8.3	-41 56	10.0	10.3	A2	2	..	38418b	79	2780	8.6	-10 49	7.9	9.0	K2	5	..	18995b
30	5035	8.3	-43 39	10.0	9.0	F5	3	..	38418b	80	2781	8.6	-14 17	9.2	9.3	A2	3	..	13154b
31	5032	8.3	-43 47	9.0	9.0	F5	3	..	38418b	81	7032	8.6	-31 24	8.9	9.3	Ko	2	..	18927b
32	5228	8.3	-44 49	8.3	7.8	B8	7	..	38418b	82	5457	8.6	-36 57	10.9	10.5	Ao	1	..	39925b
33	4195	8.3	-49 35	10.5	10.2	F8	1	..	38415b	83	5368	8.6	-38 32	9.3	9.7	Ko	2	..	18436b
34	2036	8.3	-56 44	8.4	8.5	Ao	2	..	41151b	84	4893	8.6	-42 1	Neb.	Neb.	Pd	..	R	76,22
35	1303	8.3	-59 28	7.7	7.6	A2	5	..	41151b	85	5039	8.6	-43 16	9.1	9.8	Ko	1	..	38418b
36	1336	8.3	-60 55	9.2	9.5	Fo	2	..	40096b	86	5233	8.6	-45 3	9.19	9.3	Ao	3	..	38418b
37	1008	8.3	-65 5	7.50	7.9	F2	7	..	21452b	87	2205	8.6	-53 37	6.74	7.1	B9	5	..	42951b
38	449	8.4	+72 37	8.7	8.8	A3	3	..	37714i	88	1339	8.6	-60 32	7.6	7.4	A2	6	..	41151b
39	2175	8.4	+40 8	8.2	9.2	Ko	1	..	37459i	89	142	8.7	+85 38	8.7	9.3	Go	3	..	37546i
40	1834	8.4	+30 22	8.1	8.9	G5	3	E	37741i	90	304	8.7	+77 50	9.3	10.3	Ko	1	..	37714i
41	2186	8.4	+ 8 2	8.5	8.9	F5	3	0,3	38198i	91	1377	8.7	+56 29	8.5	8.8	F2	3	..	37705i
42	2776	8.4	-10 23	8.5	9.5	Ko	4	..	18995b	92	2223	8.7	+39 2	6.75	7.09	F2	8	..	37345i
43	7835	8.4	-24 39	9.5	10.4	Ko	1	..	24494b	93	1827	8.7	+33 48	9.5	10.3	G5	1	..	37345i
44	7023	8.4	-29 6	9.4	10.5	K2	1	..	24494b	94	1718	8.7	+28 12	8.6	9.6	Ko	1	..	3863oi
45	5471	8.4	-35 48	9.0	9.9	Ko	2	..	39925b	95	2173	8.7	+ 3 17	7.9	9.0	K2	5	..	37606i
46	5261	8.4	-39 38	9.0	9.7	F2	2	..	39925b	96	2614	8.7	- 3 29	9.1	10.1	Ko	2	..	19392b
47	4892	8.4	-41 26	10.4	10.3	Ao	1	..	38418b	97	2788	8.7	-13 53	9.0	10.1	K2	3	..	18995b
48	5036	8.4	-43 54	10.0	9.6	Ao	2	..	38418b	98	2783	8.7	-14 56	9.7	10.2	F8	2	..	18995b
49	4505	8.4	-48 22	8.8	9.6	K5	2	..	38415b	99	6157	8.7	-32 16	10.7	10.5	A	1	..	18927b
50	3914	8.4	-50 30	7.7	9.0	Ko	6	..	38415b	100	5013	8.7	-40 7	8.84	8.9	Go	3	..	39925b

1919AnHar...94...1C

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5058	8.7	-42 32	9.0	10.2	K2	2	..	38418b	51	1693	9.1	+45 43	9.5	10.0	F8	2	..	4904m
2	5040	8.7	-43 22	var.	var.	Mb	3	5,1 R	38418b	52	1966	9.1	+35 3	6.02	6.58	Go	8	..	37345i
3	4935	8.7	-45 26	7.0	7.4	F5	2	0,9	4947b	53	1995	9.1	+12 1	8.5	8.6	A2	3	..	38283i
4	4995	8.7	-46 21	10.9	9.8	Ao	3	..	38415b	54	2832	9.1	-12 51	8.7	9.0	Fo	4	..	18995b
5	4994	8.7	-46 30	10.5	10.4	Ao	2	..	38415b	55	2649	9.1	-19 21	8.6	10.0	Go	2	..	13154b
6	1340	8.7	-60 42	10.2	10.3	A2	1	..	40096b	56	7239	9.1	-29 15	6.53	8.4	K5	6	..	24494b
7	362	8.8	+77 9	9.1	10.2	K2	1	..	37714i	57	5482	9.1	-35 28	9.4	9.6	Fo	2	5,1-	39925b
8	1484	8.8	+45 53	8.6	9.6	Ko	4	5,1	4904m	58	5064	9.1	-42 7	8.6	10.0	K2	2	..	38418b
9	2131	8.8	+ 6 20	8.5	9.6	K2	2	..	9462b	59	5065	9.1	-43 5	8.9	8.2	Ao	4	..	38418b
10	2482	8.8	+ 0 13	7.9	8.9	Ko	3	..	37606i	60	4744	9.1	-47 46	9.8	10.0	A2	3	..	38415b
11	2617	8.8	- 3 53	9.2	9.3	A3	1	..	19231b	61	4205	9.1	-50 3	10.2	10.1	F8	2	..	38415b
12	7028	8.8	-28 58	8.1	9.5	Ko	2	..	24494b	62	3921	9.1	-50 36	10.5	10.2	Fo	1	..	38415b
13	7301	8.8	-30 39	7.22	8.1	Ko	5	..	18927b	63	2090	9.1	-54 45	8.9	9.4	A3	2	..	40275b
14	4895	8.8	-41 7	10.2	9.7	Ao	3	..	38418b	64	1188	9.1	-62 32	9.0	9.4	F5	2	..	40096b
15	5059	8.8	-42 53	9.0	8.0	Ao	5	..	38418b	65	1492	9.2	+51 5	8.8	9.8	Ko	2	..	38240i
16	5041	8.8	-43 12	5.74	5.5	B8	..	1,5-	56,126	66	1848	9.2	+44 40	9.42	9.98	Go	3	..	4904m
17	5042	8.8	-43 53	10.5	10.1	Fo	1	..	38418b	67	2061	9.2	+24 31	9.2	10.0	G5	1	..	38646i
18	4736	8.8	-47 42	10.5	10.9	G5	1	..	38415b	68	2062	9.2	+23 8	7.9	8.9	Ko	2	..	37607i
19	2007	8.8	-55 12	9.01	9.1	Ao	3	..	40275b	69	2167	9.2	+ 2 44	3.84	3.84	Ao	..	R	6445c
20	1913	8.8	-57 12	7.3	7.6	B9	5	..	41151b	70	2820	9.2	- 2 18	9.9	10.9	Ko	1	..	19392b
21	1914	8.8	-57 33	6.64	6.6	B3	..	2,6-	56,126	71	5282	9.2	-39 58	8.94	9.1	Ao	3	..	39925b
22	571	8.8	-76 34	8.9	10.1	K5	3	..	21453b	72	5018	9.2	-40 9	9.14	9.4	Fo	3	..	39925b
23	1744	8.9	+48 38	7.9	7.9	Ao	4	..	38240i	73	4944	9.2	-45 34	9.4	9.8	A2	2	..	38418b
24	1956	8.9	+37 29	8.1	9.1	Ko	3	..	37345i	74	3924	9.2	-50 54	10.2	10.2	F5	1	..	38415b
25	2059	8.9	+24 42	9.01	10.01	Ko	1	..	38646i	75	1422	9.2	-58 16	8.4	8.5	B9	3	..	41151b
26	2182	8.9	+19 2	9.2	10.2	K	1	..	37607i	76	1423	9.2	-58 23	8.0	8.4	Ao	4	..	41151b
27	1928	8.9	+16 33	9.2	9.8	Go	1	..	37607i	77	1746	9.3	+48 7	8.7	9.5	G5	2	..	38240i
28	2224	8.9	- 1 41	8.9	9.2	F2	4	..	19392b	78	1694	9.3	+45 7	8.8	10.2	Mb	4	5,2	4904m
29	2855	8.9	- 6 27	8.6	9.6	Ko	3	..	19231b	79	1997	9.3	+11 55	8.3	9.4	K2	2	..	38283i
30	2583	8.9	-11 58	8.8	9.9	K2	3	..	18995b	80	2619	9.3	- 4 5	9.9	10.4	F8	1	..	19392b
31	2719	8.9	-16 21	9.0	9.4	F5	2	..	13154b	81	2786	9.3	-14 17	6.65	7.65	Ko	7	..	13154b
32	2718	8.9	-16 34	9.9	10.9	K	1	..	13154b	82	2655	9.3	-19 34	8.2	9.0	A2	4	..	13154b
33	7846	8.9	-24 13	7.74	8.7	K2	3	..	24494b	83	2653	9.3	-19 49	8.2	8.3	A2	7	..	13154b
34	6163	8.9	-32 42	10.7	10.1	A	1	..	18927b	84	2530	9.3	-22 27	7.56	8.3	G5	5	..	18977b
35	5278	8.9	-39 33	9.3	10.3	Ko	1	..	39925b	85	7852	9.3	-24 29	8.5	8.1	Ao	5	..	24494b
36	5015	8.9	-40 42	9.6	10.0	F2	2	..	38418b	86	7051	9.3	-31 59	9.2	9.3	Ko	2	..	18927b
37	1042	8.9	-67 45	9.7	10.8	K2	1	..	21452b	87	5484	9.3	-35 34	9.1	9.6	Go	2	2,2	39925b
38	902	8.9	-68 15	8.6	8.9	Fo	5	..	21452b	88	5283	9.3	-39 9	9.4	10.2	Ko	1	..	39925b
39	1285	9.0	+54 26	4.89	5.03	A5	..	3,R	56,86	89	4208	9.3	-49 11	11.5	10.2	Ao	2	..	38415b
40	1957	9.0	+37 6	8.3	9.3	Ko	2	..	37345i	90	1307	9.3	-59 53	7.7	7.6	Ao	5	..	41151b
41	2818	9.0	- 3 4	9.7	10.7	Ko	1	..	19392b	91	1009	9.3	-64 12	8.7	9.7	Ko	2	..	21452b
42	2785	9.0	-14 26	9.9	10.9	Ko	1	..	18995b	92	1018	9.3	-69 14	9.3	10.3	Ko	2	..	21452b
43	2792	9.0	-18 7	9.2	10.0	G5	1	..	13154b	93	1378	9.4	+56 25	8.9	9.9	Ko	2	..	37705i
44	7847	9.0	-24 26	9.1	8.7	Ao	4	..	24494b	94	1818	9.4	+49 22	8.07	8.85	G5	4	..	38240i
45	7042	9.0	-31 54	9.7	9.9	Ko	1	..	18927b	95	1849	9.4	+44 34	9.5	10.1	Go	2	..	4904m
46	2209	9.0	-53 33	7.9	7.6	B9	5	..	40275b	96	1897	9.4	+42 51	7.82	8.82	Ko	4	..	37459i
47	1201	9.0	-61 54	4.18	4.01	B3	..	R	28,203	97	1939	9.4	+36 24	7.9	9.0	K2	1	..	37345i
48	1086	9.0	-65 34	9.5	9.5	Ao	3	..	21452b	98	2063	9.4	+23 47	7.87	8.65	G5	3	..	37607i
49	1043	9.0	-67 54	8.4	9.4	Ko	5	..	21452b	99	1930	9.4	+16 24	7.9	8.3	F5	3	..	37607i
50	1322	9.1	+52 59	9.3	9.6	F	2	..	38240i	100	2823	9.4	- 2 30	9.5	10.6	K2	1	..	19392b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2622	9.4	m. 3 56	9.0	9.0	Ao	2	..	19231b	51	1695	9.7	o. +45 21	8.5	9.3	G5	5	..	4904m
2	2763	9.4	- 7 52	9.1	9.6	F8	3	..	19231b	52	1722	9.7	+28 20	7.9	8.4	F8	3	..	3863oi
3	2585	9.4	-12 4	9.9	9.9	Ao	2	..	18995b	53	2067	9.7	+23 13	7.9	8.2	F2	3	..	37607i
4	2731	9.4	-21 40	8.8	9.9	Ko	1	..	18977b	54	2009	9.7	+15 22	5.57	6.57	Ko	8	R	37607i
5	6370	9.4	-27 53	7.51	8.0	Ko	5	..	24494b	55	2143	9.7	+ 4 52	8.01	9.01	Ko	4	..	37606i
6	5464	9.4	-36 26	9.4	9.6	Go	4	..	18436b	56	2150	9.7	+ 4 37	8.00	9.00	Ko	3	..	37606i
7	5466	9.4	-36 54	10.9	10.1	A2	1	..	18436b	57	2227	9.7	- 1 48	10.6	11.8	K5	1	..	19392b
8	5287	9.4	-39 26	7.9	8.2	A3	3	..	39925b	58	7861	9.7	-24 31	10.4	10.1	A2	2	..	24494b
9	4902	9.4	-41 21	10.0	11.0	G5	1	..	38418b	59	5473	9.7	-36 53	8.7	9.6	Ko	2	..	18436b
10	4900	9.4	-41 36	9.1	10.0	Ko	2	..	38418b	60	4905	9.7	-41 27	10.0	10.3	F8	2	..	38418b
11	4901	9.4	-41 44	10.0	9.7	A5	2	..	38418b	61	4753	9.7	-47 19	10.5	9.8	Ao	2	..	38415b
12	4517	9.4	-48 46	8.5	8.5	A5	6	..	38415b	62	4752	9.7	-47 23	10.2	10.0	Ao	3	..	38415b
13	2217	9.4	-53 17	9.1	9.1	A	2	..	40275b	63	4215	9.7	-49 59	10.5	10.1	G5	1	..	38415b
14	1343	9.4	-60 48	9.0	10.0	Ko	2	..	40096b	64	1940	9.8	+41 13	8.2	8.6	F5	6	..	37459i
15	1103	9.4	-63 27	9.2	9.2	Ao	2	..	21452b	65	2003	9.8	+11 38	9.0	9.3	F	1	..	38283i
16	983	9.4	-66 27	8.9	8.9	Ao	6	..	21452b	66	2158	9.8	- 1 10	6.99	7.05	A2	7	0,10	37606i
17	393	9.5	+74 26	6.54	7.32	G5	8	..	37714i	67	2623	9.8	- 4 8	8.0	9.1	K2	5	..	19231b
18	515	9.5	+69 30	9.0	10.0	K	1	..	37706i	68	2613	9.8	-18 15	8.6	9.6	Ko	5	..	13154b
19	1486	9.5	+46 5	10.3	11.3	K	1	..	4904m	69	6383	9.8	-27 42	7.7	8.3	Ao	8	..	24494b
20	2572	9.5	- 4 16	9.2	10.0	G5	2	..	19392b	70	5563	9.8	-37 8	9.6	10.1	G5	1	..	18436b
21	2573	9.5	- 5 5	8.05	8.05	Ao	7	..	19231b	71	5075	9.8	-42 22	10.9	10.3	Ao	1	..	38418b
22	6372	9.5	-27 41	7.6	7.7	B9	6	..	24494b	72	4524	9.8	-48 46	10.5	10.2	Ao	2	..	38415b
23	5376	9.5	-38 12	6.46	6.9	Ao	10	..	18436b	73	4218	9.8	-49 42	10.9	11.0	Oa	..	..	76,29
24	4904	9.5	-41 52	6.12	7.4	Ko	9	..	38418b	74	985	9.8	-66 18	8.9	9.2	Fo	4	..	21452b
25	5068	9.5	-42 6	9.0	10.0	K5	2	..	38418b	75	785	9.8	-72 18	8.2	8.3	A2	3	..	22988b
26	5053	9.5	-43 50	10.2	10.1	G5	2	..	38418b	76	1487	9.9	+46 36	9.3	9.8	F8	3	..	4904m
27	604	9.6	+65 53	8.5	8.6	A2	2	..	37517i	77	1851	9.9	+44 32	9.6	10.1	F8	1	..	4904m
28	1327	9.6	+55 31	9.3	9.9	Go	1	..	37705i	78	2168	9.9	+ 2 29	7.62	8.62	Ko	4	..	37606i
29	1850	9.6	+43 59	8.7	9.7	Ko	2	5,1	4904m	79	2826	9.9	- 2 40	9.0	10.0	Ko	4	..	19392b
30	2180	9.6	+40 49	8.7	9.1	F5	2	..	37459i	80	2789	9.9	-14 32	8.0	9.1	K2	3	..	13154b
31	2063	9.6	+24 11	8.7	9.5	G5	2	..	38646i	81	2659	9.9	-19 35	8.0	10.0	G5	2	..	13154b
32	2824	9.6	- 3 6	9.2	9.6	F5	3	..	19392b	82	6996	9.9	-25 47	9.1	9.8	Ao	2	..	24494b
33	2754	9.6	- 6 0	9.2	10.4	K5	1	..	19231b	83	6844	9.9	-26 59	8.9	9.5	F8	2	..	24494b
34	2857	9.6	- 6 23	9.5	9.8	Fo	1	..	19231b	84	5492	9.9	-35 58	8.4	9.6	Ko	2	..	18436b
35	2733	9.6	-21 22	9.1	10.2	Ko	1	..	18977b	85	5292	9.9	-39 59	10.7	10.2	A2	1	..	39925b
36	6374	9.6	-27 33	9.4	10.1	A	1	..	24494b	86	5251	9.9	-44 10	9.1	9.2	B9	4	..	38418b
37	7042	9.6	-29 2	8.3	10.1	K2	2	..	24494b	87	4758	9.9	-47 19	10.5	9.8	Ao	2	..	38415b
38	7314	9.6	-30 41	9.2	9.3	A3	3	..	18927b	88	4523	9.9	-48 30	10.9	10.2	Ao	1	..	38415b
39	5865	9.6	-33 31	9.3	9.3	A2	3	..	18927b	89	4219	9.9	-49 18	10.2	9.7	Go	2	..	38415b
40	5468	9.6	-36 52	9.4	10.2	Ko	1	..	18436b	90	2015	9.9	-55 23	9.1	9.1	Ao	2	..	40275b
41	5071	9.6	-42 52	10.9	10.6	Ao	1	..	38418b	91	986	9.9	-66 40	9.1	9.1	B9	6	..	21452b
42	5073	9.6	-43 3	10.5	10.9	Ko	1	..	38418b	92	1045	9.9	-67 51	9.0	10.0	Ko	3	..	21452b
43	5003	9.6	-46 24	10.5	10.7	A	1	..	38415b	93	795	9.9	-71 46	8.2	8.2	Ao	4	..	22988b
44	5005	9.6	-46 37	9.2	10.0	K2	3	..	38415b	94	497	10.0	+71 30	9.3	9.9	G	2	..	37706i
45	4518	9.6	-48 24	9.0	9.3	F8	3	..	38415b	95	1723	10.0	+28 18	8.5	8.8	F2	3	E	37741i
46	4214	9.6	-49 29	8.8	9.6	Ko	3	..	38415b	96	2860	10.0	- 6 37	9.2	10.4	K5	1	..	19231b
47	4212	9.6	-49 38	10.9	9.6	Ao	2	..	38415b	97	2615	10.0	- 8 20	7.08	7.08	Ao	8	..	18995b
48	1010	9.6	-64 26	9.9	9.9	A	2	..	21452b	98	6998	10.0	-25 48	11.1	10.7	A	1	..	24494b
49	1087	9.6	-65 26	8.7	8.8	A2	5	..	21452b	99	7059	10.0	-31 43	9.1	9.3	G5	2	..	18927b
50	794	9.6	-71 34	7.9	8.3	F5	3	..	22988b	100	7058	10.0	-31 56	10.2	9.3	A3	2	..	18927b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

79600

9^h 10^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4907	10.0	m. 41 54	8.4	7.9	Go	6	..	38418b	51	3616	10.2	o. 51 8	11.5	10.1	A2	1	..	38415b
2	4759	10.0	47 9	10.2	10.4	K2	1	..	38415b	52	2049	10.2	57 2	8.8	9.1	A3	3	..	38748b
3	3930	10.0	50 58	10.2	10.1	A0	1	..	38415b	53	1430	10.2	58 14	8.5	10.0	K2	3	..	38748b
4	3611	10.0	51 35	9.1	10.2	K5	1	..	38415b	54	1351	10.2	60 40	8.3	8.5	A0	4	..	38748b
5	1926	10.0	57 18	8.8	9.1	A2	4	..	38748b	55	1192	10.2	62 30	8.2	8.2	A0	5	..	21452b
6	1011	10.0	64 47	8.2	8.2	B9	7	..	21452b	56	1089	10.2	65 30	8.7	9.7	K0	3	..	21452b
7	1019	10.0	69 18	8.8	9.4	Go	4	..	21452b	57	1326	10.3	+53 20	8.9	9.0	A2	4	..	38240i
8	450	10.1	+72 4	8.5	9.6	K2	2	..	37714i	58	1327	10.3	+53 6	8.7	9.1	F5	3	..	38240i
9	583	10.1	+67 39	9.6	10.2	G	1	R	37517i	59	1488	10.3	+46 0	10.3	10.9	G	1	..	4904m
10	2625	10.1	- 3 22	9.0	9.3	F0	4	..	19392b	60	1997	10.3	+21 42	9.1	10.3	K5	1	..	37607i
11	2626	10.1	- 3 26	9.5	9.8	F	2	R	19392b	61	2186	10.3	+19 12	8.5	8.6	A3	4	..	37607i
12	2790	10.1	-14 27	9.2	10.2	K0	2	..	18995b	62	2735	10.3	-21 52	8.2	8.4	A0	5	..	18977b
13	6187	10.1	-32 8	6.74	8.1	K0	7	..	18927b	63	7332	10.3	-30 29	9.2	9.6	A0	2	..	18927b
14	6185	10.1	-33 6	8.1	8.1	F2	6	..	18927b	64	6189	10.3	-33 0	7.9	8.1	A2	6	..	18927b
15	5478	10.1	-36 50	10.7	10.5	A0	1	..	18436b	65	5037	10.3	-40 15	9.48	10.3	K0	1	..	39925b
16	5295	10.1	-39 48	9.6	10.0	G	2	..	39925b	66	4913	10.3	-41 18	10.7	10.2	A0	2	..	38418b
17	5033	10.1	-40 50	10.2	10.3	A0	2	..	38418b	67	4914	10.3	-41 42	11.1	9.7	A3	2	..	38418b
18	4909	10.1	-41 39	9.0	8.8	A5	5	..	38418b	68	4915	10.3	-42 3	8.4	8.5	F2	5	..	38418b
19	5252	10.1	-44 59	9.64	9.8	A2	2	..	38418b	69	4529	10.3	-48 14	9.6	10.1	Mb	2	..	38415b
20	4956	10.1	-45 6	9.4	10.0	A2	2	..	38418b	70	2227	10.3	-53 34	7.4	8.0	B9	4	..	40275b
21	5010	10.1	-46 55	5.92	6.2	B9	..	1,7-	56,126	71	2100	10.3	-54 40	8.9	9.2	A0	3	..	40275b
22	4525	10.1	-48 41	7.1	7.8	K5	7	..	38415b	72	1352	10.3	-60 16	9.75	10.9	Ma	1	..	40096b
23	3932	10.1	-50 21	9.4	9.3	A0	4	..	38415b	73	567	10.3	-74 54	9.4	10.4	K0	2	..	21453b
24	3614	10.1	-51 46	8.8	9.9	B9	5	..	38415b	74	1180	10.4	+60 28	8.5	9.3	G5	2	..	37705i
25	2074	10.1	-53 5	6.8	7.4	A0	2	..	42951b	75	1182	10.4	+57 54	7.80	8.80	K0	4	..	37705i
26	1350	10.1	-60 57	9.8	10.9	K2	1	..	40096b	76	1698	10.4	+45 21	9.8	10.6	G5	1	..	4904m
27	1012	10.1	-64 27	Cl.	Cl.	Con.	6	R	21452b	77	1697	10.4	+45 12	10.3	11.3	K0	1	..	4904m
28	1088	10.1	-65 46	8.8	10.0	K5	3	..	21452b	78	1734	10.4	+26 53	8.2	8.7	F8	2	..	38630i
29	904	10.1	-68 50	6.6	6.9	F2	10	..	21452b	79	2065	10.4	+23 50	7.50	8.50	K0	3	..	37607i
30	905	10.1	-69 1	9.1	9.4	F0	4	..	21452b	80	2293	10.4	+20 29	8.7	9.0	F	2	..	37607i
31	209	10.1	-84 24	8.9	9.3	F5	2	..	22238b	81	2011	10.4	+15 26	8.5	8.8	F0	4	..	37607i
32	287	10.2	+80 33	8.33	8.83	F8	4	..	37493i	82	1965	10.4	+10 47	7.7	7.8	A2	5	..	38283i
33	1493	10.2	+51 44	9.3	9.4	A3	3	..	38240i	83	2490	10.4	+ 0 3	8.9	10.0	K2	3	..	19392b
34	1820	10.2	+49 8	8.9	9.7	G5	1	..	38240i	84	2161	10.4	- 0 13	8.43	8.57	A5	3	..	19392b
35	2150	10.2	+17 56	8.5	8.9	F5	2	..	37607i	85	2229	10.4	- 1 26	10.2	10.5	F2	2	..	19392b
36	2228	10.2	- 1 56	9.2	9.6	F5	2	..	19392b	86	2630	10.4	- 3 38	9.9	10.0	A3	2	..	19392b
37	2628	10.2	- 3 33	8.6	10.0	Mc	5	..	19392b	87	2862	10.4	- 6 31	8.4	9.5	K2	2	..	19231b
38	2627	10.2	- 3 56	9.9	10.2	F0	1	..	19392b	88	2618	10.4	- 8 39	8.0	8.1	A3	7	..	18995b
39	2588	10.2	-11 43	9.9	10.0	A5	2	..	18995b	89	2777	10.4	- 9 42	9.1	10.1	K0	1	..	19231b
40	8175	10.2	-23 32	8.9	9.9	K5	1	..	18977b	90	2839	10.4	-12 27	8.6	8.9	F0	4	..	18995b
41	6999	10.2	-25 33	8.9	10.1	K5	2	..	24494b	91	2542	10.4	-22 23	8.14	9.6	K5	2	..	18977b
42	7051	10.2	-28 16	9.7	10.1	F5	1	..	24494b	92	5388	10.4	-38 7	8.8	8.2	B9	5	..	18436b
43	7264	10.2	-29 24	8.5	9.3	K2	3	..	24494b	93	5302	10.4	-39 57	8.38	8.5	B9	6	..	18436b
44	7329	10.2	-31 6	9.1	9.6	A0	2	..	18927b	94	5068	10.4	-43 44	5.94	6.4	B5	..	3,5-	56,126
45	7061	10.2	-31 53	9.5	9.9	G5	1	..	18927b	95	5262	10.4	-44 6	10.9	10.1	A3	1	..	38418b
46	5258	10.2	-44 50	10.5	10.0	A	1	R	38418b	96	5264	10.4	-44 37	9.4	9.8	G	1	..	38418b
47	4957	10.2	-45 46	9.6	9.8	K0	3	5,1	38415b	97	4224	10.4	-49 48	9.0	9.0	F5	5	..	38415b
48	5011	10.2	-46 17	10.2	10.4	K0	2	..	38415b	98	1432	10.4	-59 0	5.58	6.6	G5	..	0,8	28,203
49	5013	10.2	-46 31	10.9	10.7	A	1	..	38415b	99	1353	10.4	-60 30	6.53	6.1	A0	9	..	13026b
50	4221	10.2	-49 29	10.5	10.1	A0	2	..	38415b	100	1354	10.4	-60 40	8.5	8.8	A2	3	..	38748b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1206	10.4 ^m - 61 51	9.9	11.0	K2	1	..	..	40096b	51	2786	10.7 ^m - 10 39	8.7	9.9	K5	1	..	..	18995b
2	1183	10.5 ^o + 58 20	7.62	8.40	G5	4	..	..	37705i	52	2793	10.7 - 14 36	6.23	6.23	Ao	10	..	..	13154b
3	2631	10.5 - 3 41	9.7	10.3	Go	1	..	..	19392b	53	2618	10.7 - 19 11	7.37	7.9	B9	8	..	..	13154b
4	2756	10.5 - 5 17	9.40	10.40	Ko	1	..	..	19231b	54	5885	10.7 - 33 15	9.8	8.7	Ao	3	..	..	18927b
5	2768	10.5 - 7 25	9.0	9.3	F2	4	..	..	19231b	55	5504	10.7 - 35 33	7.21	7.4	Ao	6	0,8	..	9427b
6	2767	10.5 - 7 35	9.9	10.3	F5	1	..	..	19231b	56	5502	10.7 - 35 41	10.0	9.6	Ao	2	..	..	18436b
7	2766	10.5 - 8 4	6.88	7.16	Fo	7	0,8	..	19231b	57	5572	10.7 - 37 18	8.7	9.0	Ko	3	..	..	18436b
8	2743	10.5 - 15 34	9.5	10.7	K5	1	..	..	18995b	58	4921	10.7 - 41 28	7.8	7.5	A5	8	..	..	38418b
9	2660	10.5 - 19 42	7.34	7.5	Ao	9	..	..	13154b	59	4770	10.7 - 47 33	10.9	10.4	Ao	1	..	..	38415b
10	7056	10.5 - 28 46	8.3	8.9	Ao	3	..	..	24494b	60	4536	10.7 - 48 49	11.5	9.4	Ao	3	..	..	38415b
11	7270	10.5 - 29 45	7.6	9.0	Mb	4	..	..	24494b	61	3944	10.7 - 50 11	8.74	9.6	Ko	2	..	..	38415b
12	5717	10.5 - 34 28	9.0	9.6	G5	2	..	..	18927b	62	3942	10.7 - 50 34	10.5	10.1	A3	1	..	..	38415b
13	5304	10.5 - 39 47	9.0	9.1	Ao	2	..	..	39925b	63	1658	10.8 + 47 14	5.70	5.70	Ao	8	..	..	3824oi
14	4917	10.5 - 41 49	10.0	8.5	Fo	4	..	..	38418b	64	1489	10.8 + 46 4	10.3	10.9	G	1	..	..	4904m
15	4916	10.5 - 42 1	10.7	10.3	Ao	1	..	..	38418b	65	2187	10.8 + 19 14	6.87	6.95	A3	8	..	..	37607i
16	5014	10.5 - 46 43	9.6	9.8	A2	2	..	..	38415b	66	2795	10.8 - 13 33	8.5	8.6	A2	7	..	..	18995b
17	4768	10.5 - 47 55	9.8	9.3	A2	4	..	..	38415b	67	2794	10.8 - 14 56	9.2	9.3	A2	2	..	..	13154b
18	2052	10.5 - 56 15	9.7	9.7	A	1	E	..	40275b	68	7273	10.8 - 29 57	7.70	8.1	Ao	8	..	..	24494b
19	1047	10.5 - 67 18	7.0	7.3	Fo	10	..	..	21452b	69	6196	10.8 - 32 39	7.53	8.4	Ko	6	..	..	18927b
20	499	10.6 + 70 49	9.3	9.9	G	2	..	..	37706i	70	5396	10.8 - 38 27	10.2	10.3	G5	1	..	..	39925b
21	1184	10.6 + 58 29	8.9	9.9	Ko	2	E	..	38224i	71	4922	10.8 - 41 12	10.7	10.6	A	1	..	..	38418b
22	1749	10.6 + 48 45	8.3	9.3	Ko	2	..	..	3824oi	72	5019	10.8 - 46 36	9.4	8.9	B9	3	..	..	38415b
23	1901	10.6 + 43 30	8.7	9.7	Ko	7	0,2	..	4904m	73	4771	10.8 - 47 13	10.9	10.4	A2	1	..	..	38415b
24	1900	10.6 + 43 22	8.9	9.9	Ko	5	0,2	..	4904m	74	4231	10.8 - 49 56	9.1	9.0	A	6	..	..	38415b
25	1959	10.6 + 37 28	8.2	8.5	Fo	4	..	..	37345i	75	4232	10.8 - 49 56	9.1	9.0	A	..	..	..	..
26	2057	10.6 + 14 33	8.3	8.9	Go	3	..	..	38283i	76	3946	10.8 - 50 46	9.4	10.1	Ko	1	..	..	38415b
27	2163	10.6 - 0 49	8.7	9.5	G5	3	..	..	19392b	77	2108	10.8 - 54 19	9.0	9.1	Ao	3	..	..	40275b
28	2164	10.6 - 0 49	8.7	9.5	G5	2	..	..	19392b	78	2028	10.8 - 55 7	8.26	8.0	B	3	..	..	39868b
29	2619	10.6 - 8 20	7.8	7.9	A2	7	..	..	18995b	79	1315	10.8 - 59 46	9.0	8.6	Ko	2	..	..	41151b
30	2794	10.6 - 13 42	8.7	9.9	K5	3	..	..	18995b	80	907	10.8 - 68 20	7.7	8.8	K2	5	..	..	21452b
31	2799	10.6 - 17 33	9.0	9.8	G5	2	..	..	13154b	81	835	10.9 + 63 16	8.1	8.5	F5	4	..	..	37517i
32	5884	10.6 - 33 16	9.3	10.5	Ma	1	..	..	18927b	82	2073	10.9 + 25 3	8.7	9.7	Ko	2	..	..	38646i
33	5392	10.6 - 38 27	10.2	10.3	Go	1	..	..	39925b	83	2068	10.9 + 23 20	8.0	8.3	Fo	2	..	..	37607i
34	5084	10.6 - 42 36	10.9	10.3	A2	1	..	..	38418b	84	2155	10.9 + 4 15	8.9	9.9	K	1	..	..	37606i
35	5086	10.6 - 42 49	5.15	4.98	B3	..	2,6 R	..	28,203	85	2172	10.9 + 2 8	8.5	8.6	A3	2	..	..	37606i
36	5269	10.6 - 44 39	9.0	8.6	F8	4	..	..	38418b	86	2577	10.9 - 4 18	10.4	10.8	F5	1	..	..	19392b
37	4534	10.6 - 49 4	7.8	9.0	Ko	7	..	..	38415b	87	7880	10.9 - 24 7	9.4	9.6	A3	2	..	..	24494b
38	4229	10.6 - 49 17	9.8	9.3	F5	4	..	..	38415b	88	5071	10.9 - 43 25	11.5	10.1	A2	1	..	..	38418b
39	3941	10.6 - 50 28	9.0	9.9	Ko	2	..	..	38415b	89	5072	10.9 - 43 32	8.6	9.2	Ko	2	..	..	38418b
40	2106	10.6 - 54 47	8.1	8.8	Ao	4	..	..	39868b	90	5276	10.9 - 44 13	11.5	10.1	A3	2	..	..	38418b
41	1358	10.6 - 60 15	9.15	9.4	Ao	2	..	..	38748b	91	4966	10.9 - 45 56	9.1	9.5	B8	3	..	..	38415b
42	990	10.6 - 66 19	8.8	9.2	F5	5	..	..	21452b	92	5020	10.9 - 47 0	8.8	8.4	B8	6	..	..	38415b
43	906	10.6 - 68 47	7.2	7.6	F5	8	..	..	21452b	93	4234	10.9 - 49 30	10.2	9.1	Ao	3	..	..	38415b
44	485	10.6 - 77 55	9.4	9.7	F2	4	..	..	21453b	94	2029	10.9 - 56 0	9.0	9.1	A	2	E	..	40275b
45	1969	10.7 + 35 34	8.6	8.9	F2	3	..	..	37345i	95	1207	10.9 - 61 30	9.4	9.4	B9	2	..	..	40096b
46	2013	10.7 + 15 31	8.5	8.6	A2	2	..	..	37607i	96	1208	10.9 - 62 0	8.8	9.1	F8	3	..	..	40096b
47	2099	10.7 + 6 57	8.3	9.5	K5	1	..	..	37606i	97	1194	10.9 - 62 15	9.1	9.1	Ao	2	..	..	40096b
48	2177	10.7 + 2 58	8.5	9.5	Ko	2	..	..	37606i	98	1111	11.0 + 61 18	8.1	8.2	A2	3	E	..	37705i
49	2165	10.7 - 0 56	8.7	9.8	K2	4	19392b	99	1902	11.0 + 43 4	9.8	10.4	Go	2	4904m
50	2576	10.7 - 5 0	8.6	9.8	K5	4	19231b	100	1839	11.0 + 30 47	7.8	7.8	Ao	5	37741i

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2166	II.0	m. - 0 33	8.7	9.7	Ko	4	..	19392b	51	1961	II.4	o ' + 31 42	7.9	8.9	Ko	3	..	37741i
2	2230	II.0	- 1 25	9.2	9.3	A5	4	..	19392b	52	2266	II.4	+ 1 0	8.9	9.2	Fo	1	..	19392b
3	2579	II.0	- 4 27	9.1	10.1	Ko	4	o,I	19392b	53	2635	II.4	- 4 7	8.0	9.0	Ko	4	..	19231b
4	2841	II.0	-12 43	7.54	8.61	K2	8	..	18995b	54	2761	II.4	- 5 36	9.5	9.9	F5	1	..	19231b
5	2801	II.0	-18 3	9.2	10.2	Ko	1	..	13154b	55	2622	II.4	- 8 40	9.0	10.0	Ko	1	..	19231b
6	6407	II.0	-27 34	8.9	9.6	A2	3	..	24494b	56	2835	II.4	-21 6	8.12	9.0	K5	2	..	18977b
7	5578	II.0	-37 11	6.04	6.8	Go	..	o,10	28,203	57	6208	II.4	-32 54	7.04	8.1	K2	7	..	18927b
8	5397	II.0	-38 57	9.4	10.5	Ko	1	..	39925b	58	5056	II.4	-40 9	10.7	10.3	Ao	1	..	39925b
9	5045	II.0	-41 1	9.3	10.2	Ko	2	..	38418b	59	5103	II.4	-42 44	10.9	10.5	Fo	1	..	38418b
10	5095	II.0	-43 3	7.4	7.9	Ko	7	..	38418b	60	5102	II.4	-43 1	9.4	9.7	Ko	3	..	38418b
11	4971	II.0	-45 9	9.14	9.5	B8	2	..	38418b	61	5087	II.4	-44 3	10.9	10.4	Fo	1	..	38418b
12	5025	II.0	-46 38	10.2	10.1	Fo	2	..	38415b	62	5284	II.4	-44 19	10.9	10.0	Fo	1	..	38418b
13	2033	II.0	-55 16	8.46	8.5	Ao	2	..	39868b	63	1364	II.4	-60 18	9.4	10.2	G5	1	..	40096b
14	2591	II.1	-11 13	8.6	8.6	Ao	4	..	18995b	64	1366	II.4	-60 52	7.2	7.1	B8	6	o,7	13026b
15	2544	II.1	-23 4	7.72	7.6	Ao	7	..	18977b	65	1106	II.4	-63 47	8.2	9.2	Ko	4	..	21452b
16	5495	II.1	-36 44	10.0	9.9	Ao	1	..	18436b	66	992	II.4	-67 5	9.0	9.4	F5	3	..	21452b
17	5079	II.1	-43 13	10.0	9.8	A3	2	..	38418b	67	1049	II.4	-67 16	9.7	10.0	Fo	2	..	21452b
18	5279	II.1	-44 25	10.9	10.1	Ao	1	..	38418b	68	248	II.5	+83 7	8.6	9.0	F5	3	..	37546i
19	4973	II.1	-45 48	9.6	9.8	F5	2	..	38415b	69	268	II.5	+82 18	8.7	9.0	F2	3	..	37493i
20	4776	II.1	-47 24	9.4	9.3	F8	4	..	38415b	70	370	II.5	+75 20	7.38	7.44	A2	8	R	37714i
21	1360	II.1	-60 34	9.5	10.7	K5	1	..	40096b	71	584	II.5	+67 12	8.5	9.1	Go	5	..	37517i
22	991	II.1	-66 26	9.4	10.0	Go	2	..	21452b	72	2068	II.5	+24 4	7.20	7.62	F5	5	..	37607i
23	2580	II.2	- 4 27	8.6	9.6	Ko	3	..	19231b	73	2267	II.5	+ 1 9	6.54	6.96	F5	8	..	37606i
24	2759	II.2	- 5 27	9.2	9.5	F2	1	..	19231b	74	2231	II.5	- 1 45	9.9	10.9	Ko	1	..	19392b
25	2772	II.2	- 7 56	7.08	7.22	A5	8	2,6	18995b	75	2829	II.5	- 2 16	8.4	9.4	Ko	5	..	19392b
26	2592	II.2	-11 49	9.2	10.0	G5	3	..	18995b	76	2636	II.5	- 3 59	8.0	9.1	K2	3	..	19231b
27	2800	II.2	-13 12	10.1	10.1	Ao	2	..	18995b	77	2584	II.5	- 4 53	9.5	10.1	Go	2	..	19392b
28	5313	II.2	-39 42	9.3	10.3	K2	1	..	39925b	78	2796	II.5	-14 37	10.1	11.2	K2	1	..	18995b
29	5314	II.2	-39 52	8.5	8.3	Ao	5	..	18436b	79	2625	II.5	-19 7	9.7	10.5	G5	1	..	13154b
30	4930	II.2	-41 24	11.4	10.7	A	1	..	38418b	80	5515	II.5	-35 17	10.4	10.2	Ao	1	..	18436b
31	5281	II.2	-44 12	9.4	9.3	B9	3	..	38418b	81	5057	II.5	-40 48	10.0	9.7	Ao	3	..	38418b
32	4975	II.2	-45 32	10.2	9.5	Ao	2	..	38418b	82	4979	II.5	-45 57	9.2	9.2	F8	3	..	38415b
33	4544	II.2	-48 16	10.5	10.5	A2	1	..	38415b	83	5031	II.5	-46 23	10.2	10.4	G5	2	..	38415b
34	3950	II.2	-50 27	10.5	10.2	Ko	1	..	38415b	84	4243	II.5	-49 54	11.5	9.9	Ao	1	..	38415b
35	2034	II.2	-55 40	8.3	9.7	K5	1	E	40275b	85	3643	II.5	-51 53	9.0	8.7	B9	4	..	38415b
36	1361	II.2	-60 48	8.3	8.2	Ao	4	2,3	13026b	86	364	II.6	+77 39	8.5	8.8	F2	4	..	37714i
37	183	II.2	-85 16	5.38	5.66	Fo	9	2,R	11010b	87	1064	II.6	+62 1	7.7	8.7	Ko	3	..	37517i
38	1969	II.3	+33 56	6.84	7.62	G5	6	..	37741i	88	1821	II.6	+49 21	8.6	9.6	Ko	1	..	38240i
39	2155	II.3	+18 34	8.1	8.9	G5	3	..	37607i	89	1490	II.6	+46 35	8.7	8.8	A3	7	o,2	4904m
40	2167	II.3	- 0 48	8.9	10.0	K2	2	..	19392b	90	1990	II.6	+42 29	8.5	8.6	A5	4	..	37459i
41	2801	II.3	-13 37	10.1	10.4	F	1	..	18995b	91	2233	II.6	- 1 42	9.2	10.2	Ko	1	..	19392b
42	6411	II.3	-28 1	9.2	10.1	Fo	2	..	24494b	92	2639	II.6	- 3 39	9.7	10.3	Go	1	..	19392b
43	5895	II.3	-33 56	8.2	9.0	K2	3	..	18927b	93	2789	II.6	-10 36	8.6	9.8	K5	1	..	18995b
44	4546	II.3	-48 37	10.2	9.9	F5	2	..	38415b	94	6881	II.6	-26 47	7.74	8.6	Ko	4	..	24494b
45	2112	II.3	-54 15	8.9	9.4	Go	2	..	40275b	95	6415	II.6	-27 47	8.09	9.2	Ko	3	..	24494b
46	2035	II.3	-55 9	5.20	7.0	Ko	..	o,7	28,203	96	7087	II.6	-31 48	8.1	8.7	Ko	4	..	18927b
47	1363	II.3	-60 55	9.0	10.2	Ko	2	..	40096b	97	5517	II.6	-35 56	10.2	10.4	A3	1	..	39925b
48	1211	II.3	-61 16	8.9	9.1	Ao	3	..	40096b	98	5588	II.6	-37 48	9.4	9.6	Fo	2	..	18436b
49	569	II.3	-74 47	8.7	9.8	K2	4	..	21453b	99	5105	II.6	-42 21	9.4	9.7	Fo	3	..	38418b
50	2226	II.4	+39 38	7.97	8.39	F5	4	..	37345i	100	4982	II.6	-45 8	6.34	6.8	Ao	5	2,6	4947b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4783	11.6	-48 5	8.6	9.0	B9	6	..	38415b	51	1198	11.8	-62 47	8.9	9.9	Ko	1	..	40096b
2	4246	11.6	-49 32	10.0	9.6	Ao	2	..	38415b	52	994	11.8	-66 10	9.2	9.7	F8	2	..	21452b
3	2116	11.6	-52 51	9.4	9.4	Ao	2	E	40275b	53	1328	11.9	+52 55	9.0	9.3	F	2	E	38240i
4	1436	11.6	-58 29	9.1	10.0	A5	1	..	38748b	54	2066	11.9	+13 30	8.7	9.7	Ko	1	..	38283i
5	1367	11.6	-60 7	7.55	7.5	B9	6	1,5	38748b	55	2101	11.9	+ 7 42	8.9	9.4	F8	2	..	9462b
6	1369	11.6	-60 29	8.4	9.4	K5	2	..	38748b	56	2102	11.9	+ 7 39	8.6	9.1	F8	4	..	9462b
7	456	11.7	+73 17	9.5	9.9	F5	2	..	37714i	57	2641	11.9	- 3 47	9.2	9.3	A3	3	R	19392b
8	1737	11.7	+26 52	8.7	9.9	K5	1	..	38646i	58	2793	11.9	-10 31	8.7	9.7	Ko	2	..	18995b
9	2169	11.7	- 0 24	8.9	9.4	F8	5	..	19392b	59	5906	11.9	-33 25	9.3	10.1	K5	1	..	18927b
10	2762	11.7	- 5 56	5.40	6.40	Ko	10	..	19231b	60	5738	11.9	-34 18	10.0	9.9	A3	2	..	18927b
11	2872	11.7	- 6 18	8.6	9.7	K2	3	..	19231b	61	5590	11.9	-37 13	6.98	7.5	Ko	6	..	18436b
12	2790	11.7	-10 54	9.9	9.9	Ao	2	..	18995b	62	4940	11.9	-41 37	10.7	10.3	A2	1	..	38418b
13	2594	11.7	-11 31	8.7	9.7	Ko	3	..	18995b	63	5093	11.9	-43 49	9.4	9.0	B9	4	..	38418b
14	2804	11.7	-13 25	6.73	6.79	A2	10	..	18995b	64	4785	11.9	-47 19	10.5	9.8	A5	4	..	38415b
15	2836	11.7	-20 47	7.88	8.4	F5	6	..	18977b	65	1943	11.9	-57 15	8.4	9.2	K5	3	..	38748b
16	6883	11.7	-26 28	10.2	10.4	Ao	1	..	24494b	66	1108	11.9	-63 47	8.3	8.9	Go	3	..	21452b
17	5408	11.7	-38 9	4.98	6.6	Ko	..	R	28,203	67	1109	11.9	-63 57	8.6	9.2	Go	3	..	21452b
18	5035	11.7	-46 42	10.9	10.7	Ao	1	..	38415b	68	703	12.0	+65 28	7.62	8.40	G5	5	..	37517i
19	4547	11.7	-48 11	10.5	9.6	A	3	..	38415b	69	1883	12.0	+29 0	7.26	8.26	Ko	5	..	37741i
20	2120	11.7	-52 16	9.9	9.9	B9	3	..	38415b	70	1922	12.0	+26 25	9.2	10.0	G5	2	..	38646i
21	2241	11.7	-53 14	9.1	9.1	F8	2	E	40275b	71	2182	12.0	+ 3 6	7.9	8.2	Fo	5	..	37606i
22	2058	11.7	-56 49	8.7	8.8	Ao	5	..	38748b	72	2173	12.0	+ 2 22	6.84	7.12	Fo	7	..	37606i
23	1107	11.7	-63 16	8.9	9.7	G5	2	..	21452b	73	2830	12.0	- 3 7	9.2	10.2	Ko	1	..	19392b
24	993	11.7	-66 23	9.4	9.4	B9	3	..	21452b	74	2845	12.0	-12 53	9.7	10.7	Ko	1	..	18995b
25	572	11.7	-73 18	8.6	9.8	K5	1	..	22988b	75	2805	12.0	-13 27	9.0	9.0	Ao	6	..	18995b
26	487	11.7	-77 6	9.7	9.8	A3	3	..	21453b	76	2735	12.0	-16 25	8.4	8.4	B9	7	..	13154b
27	1220	11.8	+58 50	8.8	9.4	Go	2	..	38224i	77	7895	12.0	-24 53	8.5	9.8	G5	3	..	24494b
28	2184	11.8	+40 35	8.2	9.3	K2	2	..	37459i	78	5299	12.0	-44 30	9.0	9.6	Ko	1	..	38418b
29	1729	11.8	+27 51	6.53	6.95	F5	8	..	37741i	79	5037	12.0	-46 26	10.0	9.6	Ao	3	..	38415b
30	2052	11.8	+16 58	8.7	9.2	F8	2	..	37607i	80	4786	12.0	-47 57	10.5	10.4	Ao	3	..	38415b
31	2623	11.8	- 8 19	5.54	5.52	B9	..	..	56,86	81	4552	12.0	-48 33	10.5	9.6	A2	2	..	38415b
32	2792	11.8	-10 45	9.0	9.3	Fo	3	..	18995b	82	2126	12.0	-52 54	7.9	8.1	Ao	4	0,7	42951b
33	2629	11.8	-19 2	7.26	7.60	F2	8	..	13154b	83	2060	12.0	-56 48	9.1	9.4	B9	3	..	38748b
34	2550	11.8	-22 43	7.6	8.5	A5	4	..	18977b	84	1322	12.0	-59 58	9.26	9.2	Ao	1	..	38748b
35	7084	11.8	-28 28	7.24	7.5	Ao	8	..	24494b	85	1110	12.0	-63 17	7.5	8.3	G5	6	..	21452b
36	7359	11.8	-31 5	9.5	9.7	F8	1	..	18927b	86	570	12.0	-74 12	7.9	7.9	Ao	5	..	21453b
37	5735	11.8	-35 1	8.69	9.1	Ao	4	..	18436b	87	348	12.1	+76 6	8.2	8.2	Ao	6	..	37714i
38	5519	11.8	-36 0	10.4	9.9	Ao	3	..	18436b	88	1329	12.1	+53 7	9.5	10.5	Ko	1	..	38650i
39	5507	11.8	-36 49	9.1	9.9	K2	1	..	18436b	89	1732	12.1	+28 35	8.9	9.3	F5	2	..	37741i
40	5505	11.8	-37 0	4.70	5.12	F5	..	R	28,203	90	2072	12.1	+23 30	7.13	8.13	Ko	4	..	37607i
41	5411	11.8	-38 52	9.3	9.4	Ao	4	..	18436b	91	2072	12.1	+22 13	8.1	8.9	G5	2	..	37607i
42	5295	11.8	-44 29	9.0	8.7	Ao	4	..	38418b	92	2053	12.1	+17 8	7.9	7.9	Ao	5	..	37607i
43	3645	11.8	-51 9	9.6	9.4	Ao	1	..	38415b	93	2788	12.1	- 9 12	7.64	8.64	Ko	6	..	18995b
44	3646	11.8	-51 12	9.6	9.6	A	1	..	38415b	94	2794	12.1	-10 41	6.55	7.55	Ko	8	..	18995b
45	2247	11.8	-53 8	9.4	9.4	Ao	1	E	40275b	95	2847	12.1	-12 38	9.5	10.5	K	1	..	18995b
46	2037	11.8	-55 13	7.11	7.2	B8	5	..	39868b	96	2804	12.1	-17 15	9.0	10.1	K2	1	..	13154b
47	1439	11.8	-58 24	10.1	10.2	A2	2	..	38748b	97	7088	12.1	-28 23	8.5	9.2	A5	3	..	24494b
48	1321	11.8	-59 33	8.1	8.8	Fo	3	..	41151b	98	5109	12.1	-42 36	9.4	9.7	A2	3	..	38418b
49	1370	11.8	-60 32	9.9	10.0	A2	2	..	40096b	99	4991	12.1	-45 36	9.6	9.5	A3	2	..	38418b
50	1212	11.8	-61 42	8.9	9.1	Ao	3	..	40096b	100	5039	12.1	-46 55	10.9	10.7	A2	1	..	38415b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5040	12.1	-47 4	8.2	9.3	Ko	4	..	38415b	51	2803	12.4	-14 42	9.5	10.3	G5	1	..	18995b
2	4790	12.1	-47 47	10.9	10.7	G5	1	..	38415b	52	2632	12.4	-18 42	9.7	10.5	G5	1	..	13154b
3	3651	12.1	-51 37	10.5	9.9	Ao	1	..	38415b	53	6224	12.4	-33 5	9.4	8.7	Ao	3	..	18927b
4	2062	12.1	-56 40	8.8	9.4	F8	3	..	38748b	54	5421	12.4	-38 21	9.8	9.7	F2	2	..	18436b
5	1200	12.1	-62 19	9.4	9.4	Ao	3	..	40096b	55	5099	12.4	-43 8	9.1	8.7	Ao	5	..	38418b
6	1050	12.1	-67 24	9.5	10.0	F8	1	..	21452b	56	5097	12.4	-43 15	8.8	8.3	B9	6	..	38418b
7	1023	12.1	-69 18	1.80	1.80	Ao	..	O, R	28,203	57	5305	12.4	-44 29	6.03	6.7	B5	6	4,4	46200b
8	1701	12.2	+45 14	9.3	10.4	K2	1	..	4904m	58	1202	12.4	-62 45	9.3	9.4	A3	2	..	40096b
9	2197	12.2	+ 8 47	7.7	8.7	Ko	4	E	38198i	59	1111	12.4	-63 26	8.5	9.5	Ko	3	..	21452b
10	2142	12.2	+ 5 53	8.9	9.0	A3	2	..	9462b	60	1017	12.4	-64 38	7.2	8.2	Ko	8	..	21452b
11	2833	12.2	- 3 7	9.2	10.3	K2	2	..	19392b	61	1093	12.4	-65 45	9.1	9.4	F2	5	..	21452b
12	2625	12.2	- 8 49	9.5	9.5	Ao	2	..	19231b	62	569	12.4	-75 16	9.63	9.6	Ao	5	..	21453b
13	2807	12.2	-14 1	9.1	9.7	Go	4	..	18995b	63	1994	12.5	+42 7	8.1	9.1	Ko	2	..	37459i
14	2800	12.2	-14 59	9.5	10.3	G5	1	E	18995b	64	2009	12.5	+11 55	6.29	6.29	Ao	9	..	38283i
15	5328	12.2	-39 7	9.0	9.7	Fo	2	..	18436b	65	2199	12.5	+ 8 22	7.19	7.97	G5	6	0,5	9462b
16	5063	12.2	-40 45	9.4	10.3	G5	1	..	38418b	66	2174	12.5	+ 2 3	8.3	8.6	Fo	2	..	37606i
17	5112	12.2	-42 33	10.2	10.3	A	1	..	38418b	67	2796	12.5	-10 19	9.51	9.59	A3	3	..	18995b
18	4791	12.2	-47 53	8.9	10.0	Ko	2	..	38415b	68	2600	12.5	-11 35	9.5	9.6	A5	4	..	18995b
19	1372	12.2	-61 5	8.5	9.1	Ao	4	..	38748b	69	6422	12.5	-28 1	8.1	8.6	A5	5	..	24494b
20	792	12.2	-72 23	7.5	8.6	K2	2	..	22988b	70	7296	12.5	-29 32	9.4	9.6	K2	2	..	24494b
21	500	12.3	+71 20	9.5	10.3	G5	1	..	37706i	71	5602	12.5	-37 46	9.8	9.6	F2	1	..	18436b
22	1380	12.3	+52 3	8.3	8.6	Fo	4	..	38240i	72	5422	12.5	-38 14	9.4	10.3	Ma	1	..	18436b
23	2021	12.3	+38 32	8.7	8.7	Ao	2	..	37345i	73	5045	12.5	-46 25	9.6	10.1	A5	1	..	38415b
24	1971	12.3	+35 47	5.76	5.90	A5	9	..	37345i	74	4793	12.5	-47 37	10.2	10.1	Fo	2	..	38415b
25	2151	12.3	+ 9 47	8.72	8.72	Ao	3	..	38283i	75	4558	12.5	-48 9	9.6	9.3	Ao	3	..	38415b
26	..	12.3	- 1 22	..	..	Fo	3	..	19392b	76	4557	12.5	-48 36	10.2	9.6	A2	2	..	38415b
27	2234	12.3	- 2 9	9.9	10.0	A3	3	..	19392b	77	4264	12.5	-49 33	7.9	9.0	B	4	R	38415b
28	2644	12.3	- 3 47	9.5	9.8	Fo	2	..	19392b	78	1112	12.5	-63 44	8.2	8.2	B9	7	..	21452b
29	2586	12.3	- 4 59	9.2	10.3	K2	1	..	19392b	79	1660	12.6	+47 23	6.93	6.93	Ao	6	..	38240i
30	2802	12.3	-15 5	8.06	9.13	K2	2	..	13154b	80	1903	12.6	+42 56	8.8	9.9	K2	1	..	38639i
31	2737	12.3	-16 11	9.5	9.5	Ao	2	..	13154b	81	1965	12.6	+37 14	3.82	3.88	A2	..	..	2505c
32	2745	12.3	-21 32	7.98	8.4	Ao	6	..	18977b	82	2194	12.6	+19 13	7.9	8.2	Fo	4	..	37607i
33	7291	12.3	-29 43	8.7	9.0	Ko	4	..	24494b	83	2875	12.6	- 7 3	8.8	8.8	B9	5	..	19231b
34	6220	12.3	-32 33	9.6	9.3	F5	1	..	18927b	84	2752	12.6	-15 54	8.6	9.6	Ko	1	..	13154b
35	5912	12.3	-33 32	10.9	9.3	A2	1	..	18927b	85	7297	12.6	-30 5	9.5	9.6	F8	2	..	13281b
36	5330	12.3	-39 40	10.0	9.4	A3	2	..	18436b	86	5533	12.6	-35 21	8.7	9.9	G5	2	..	18436b
37	4941	12.3	-41 58	10.4	10.2	A3	2	..	38418b	87	5102	12.6	-43 9	9.6	10.0	G5	1	..	38418b
38	5043	12.3	-46 29	9.8	9.8	Ko	1	R	38415b	88	5047	12.6	-46 56	10.0	10.9	Ko	1	..	38415b
39	1947	12.3	-57 16	8.9	9.5	K2	1	..	38748b	89	4560	12.6	-48 16	9.8	9.6	A3	2	..	38415b
40	1445	12.3	-58 26	8.8	9.5	Ao	3	..	38748b	90	3963	12.6	-50 55	9.2	9.6	Ko	2	..	38415b
41	1092	12.3	-65 57	9.1	10.2	K2	1	..	21452b	91	2149	12.6	-53 4	8.7	9.6	Ko	2	E	40275b
42	836	12.4	+62 56	7.9	8.4	F8	4	..	37517i	92	2130	12.6	-54 33	8.8	8.8	A	4	R	39868b
43	1702	12.4	+45 3	9.0	9.6	Go	2	..	4904m	93	2044	12.6	-55 50	7.9	8.9	K5	2	..	39868b
44	2160	12.4	+18 28	8.5	9.5	K	1	..	37607i	94	1949	12.6	-57 58	6.06	5.8	B5	..	..	28,203
45	2062	12.4	+14 4	8.9	9.4	F8	2	..	38283i	95	1446	12.6	-58 24	8.8	10.6	F2	5	..	38748b
46	2271	12.4	+ 0 59	6.92	6.92	Ao	8	..	37606i	96	1327	12.6	-59 51	10.3	10.3	Ao	2	..	40096b
47	2170	12.4	- 1 0	10.6	11.4	G5	2	..	19392b	97	1094	12.6	-65 59	9.4	9.7	Fo	3	..	21452b
48	2645	12.4	- 3 14	9.5	9.8	Fo	5	..	19392b	98	572	12.6	-74 26	8.7	9.8	K2	3	..	21453b
49	2848	12.4	-13 3	9.5	9.6	A3	2	..	18995b	99	184	12.6	-85 21	9.0	9.3	F2	3	..	22238b
50	2808	12.4	-14 9	5.97	6.97	Ko	7	..	21367b	100	155	12.6	-86 10	8.6	9.6	Ko	3	..	15145b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1845	12.7	+30 10	8.5	9.1	G	1	..	3774i	51	2852	13.0	-12 58	9.0	9.3	Fo	4	..	18995b
2	2835	12.7	- 2 32	9.9	10.3	F5	2	..	19392b	52	2811	13.0	-13 12	10.8	10.8	A	1	..	18995b
3	2834	12.7	- 3 8	10.1	10.7	Go	1	..	19392b	53	4952	13.0	-41 6	8.7	10.2	K2	2	..	38418b
4	2587	12.7	- 5 9	8.60	9.78	K5	2	..	19231b	54	5127	13.0	-42 27	10.0	10.3	Go	2	..	38418b
5	2601	12.7	-11 32	7.32	8.32	Ko	7	..	18995b	55	5125	13.0	-42 51	10.5	10.3	G5	1	..	38418b
6	2844	12.7	-20 48	9.2	9.0	A5	2	..	18977b	56	5112	13.0	-44 1	9.1	8.7	Ao	4	..	38418b
7	7379	12.7	-31 5	9.4	10.2	K5	1	..	18927b	57	2049	13.0	-55 8	8.28	8.5	F5	2	..	39868b
8	5103	12.7	-43 51	5.01	7.0	K5	..	0,2-	28,203	58	1219	13.0	-61 11	8.7	9.2	Ao	3	..	40096b
9	5048	12.7	-46 52	9.6	10.4	K2	2	..	38415b	59	1096	13.0	-65 41	8.7	8.8	A2	6	..	21452b
10	4267	12.7	-49 54	10.2	9.9	Ao	2	..	38415b	60	802	13.0	-71 12	7.2	7.2	Ao	6	..	22988b
11	1095	12.7	-65 27	8.6	8.6	B8	6	..	21452b	61	1751	13.1	+48 31	8.5	9.5	Ko	2	..	38240i
12	1051	12.7	-68 3	10.8	10.8	A	1	..	21452b	62	2108	13.1	+ 7 30	8.7	9.0	F2	3	..	9462b
13	295	12.8	+80 58	8.8	9.8	Ko	2	..	37493i	63	2274	13.1	+ 1 8	7.9	8.9	Ko	3	..	37606i
14	394	12.8	+73 58	9.6	10.2	G	2	..	37714i	64	2174	13.1	- 0 11	8.48	9.66	K5	4	..	19392b
15	2231	12.8	+39 3	8.97	9.53	G	1	..	37459i	65	2602	13.1	-11 21	9.2	10.4	K5	1	..	18995b
16	1943	12.8	+36 7	7.8	9.0	K5	3	..	37345i	66	2810	13.1	-17 41	10.1	10.1	A	1	..	13154b
17	2200	12.8	+ 8 40	7.9	8.7	G5	2	E	38198i	67	2636	13.1	-19 8	8.6	9.1	F8	3	..	13154b
18	2809	12.8	-14 1	8.8	9.8	Ko	3	..	18995b	68	6906	13.1	-26 34	10.4	10.7	Ao	1	..	24494b
19	4948	12.8	-41 51	9.4	9.7	Ao	3	..	38418b	69	6434	13.1	-27 8	9.7	10.7	G5	1	..	24494b
20	5121	12.8	-42 48	11.5	10.5	Ao	1	..	38418b	70	5430	13.1	-38 59	5.37	7.4	Ko	..	0,8	56,126
21	5107	12.8	-43 30	10.0	9.5	F8	2	..	38418b	71	5345	13.1	-39 42	7.14	7.9	Ko	6	..	18436b
22	5050	12.8	-47 3	10.0	10.5	G5	2	..	38415b	72	5078	13.1	-41 3	9.6	10.3	Ko	1	..	38418b
23	4268	12.8	-49 10	9.1	9.1	A2	5	..	38415b	73	4955	13.1	-41 32	8.0	9.1	Ko	4	..	38418b
24	4269	12.8	-49 51	9.2	9.9	G5	2	..	38415b	74	4956	13.1	-42 6	10.4	10.6	Fo	1	..	38418b
25	2133	12.8	-54 6	8.8	8.8	Ao	4	E	40275b	75	5114	13.1	-43 39	10.2	9.3	A3	3	..	38418b
26	1951	12.8	-57 9	6.33	7.4	Ko	..	5,7	56,126	76	4801	13.1	-47 24	10.5	10.1	Ao	2	..	38415b
27	1329	12.8	-59 59	9.79	10.5	A	1	..	40096b	77	2069	13.1	-56 36	8.4	9.1	F5	4	..	38748b
28	910	12.8	-68 30	7.5	8.5	Ko	8	..	21452b	78	211	13.1	-84 46	8.1	9.2	K2	4	2,3	22238b
29	575	12.8	-73 35	8.7	9.5	G5	2	..	22988b	79	705	13.2	+65 15	8.9	9.2	F2	2	..	37517i
30	1181	12.9	+60 12	7.46	8.46	Ko	4	..	37705i	80	2074	13.2	+23 20	8.8	9.6	G5	2	..	37607i
31	1847	12.9	+30 16	8.5	9.3	G5	3	..	37741i	81	2877	13.2	- 7 3	9.2	10.2	Ko	2	..	19231b
32	2074	12.9	+22 0	9.5	9.9	F5	2	..	38646i	82	2854	13.2	-13 7	9.5	9.6	A5	2	..	18995b
33	2838	12.9	- 2 58	8.2	9.2	Ko	6	..	19392b	83	2751	13.2	-21 21	8.6	9.4	F2	2	..	18977b
34	2837	12.9	- 3 8	9.9	10.9	Ko	2	..	19392b	84	2556	13.2	-22 30	8.6	8.4	Ao	3	..	18977b
35	2766	12.9	- 5 47	9.5	10.5	Ko	1	..	19231b	85	6437	13.2	-27 38	9.7	10.4	A2	1	..	24494b
36	2810	12.9	-13 20	9.5	10.6	K2	1	..	18995b	86	6241	13.2	-32 6	8.0	8.1	A2	6	..	18927b
37	2808	12.9	-17 51	9.5	10.5	K	1	..	13154b	87	6240	13.2	-32 13	7.6	8.7	G5	3	..	18927b
38	2845	12.9	-20 55	8.06	8.7	K5	3	..	18977b	88	5079	13.2	-40 53	7.5	8.2	Ao	7	..	38418b
39	4949	12.9	-41 25	10.0	10.0	Ao	3	R	38418b	89	4804	13.2	-47 39	9.8	10.0	F8	2	..	38415b
40	5315	12.9	-44 39	9.4	9.3	Ao	3	..	38418b	90	1958	13.2	-57 9	9.5	9.5	A	1	..	38748b
41	1450	12.9	-58 27	8.5	9.1	K	1	..	38748b	91	1375	13.2	-60 58	9.7	10.5	G5	1	..	40096b
42	1114	13.0	+61 48	7.58	7.72	A5	5	..	37517i	92	..	13.2	-66 6	..	..	G5	1	..	21452b
43	1494	13.0	+50 54	8.7	9.9	K5	1	..	38240i	93	1052	13.2	-67 53	10.7	10.7	A	2	..	21452b
44	1703	13.0	+45 44	9.5	10.3	G5	1	..	4904m	94	574	13.2	-76 15	6.34	7.2	Ko	10	..	21453b
45	1854	13.0	+43 56	9.6	9.6	Ao	4	..	4904m	95	373	13.3	+75 25	7.97	9.04	K2	3	..	37714i
46	2009	13.0	+21 14	8.6	9.0	F5	4	..	37607i	96	1967	13.3	+37 25	9.1	10.3	K5	1	..	37345i
47	2302	13.0	+19 51	9.05	9.55	F8	2	..	37607i	97	2237	13.3	- 1 34	9.2	10.4	K5	2	..	19392b
48	2057	13.0	+17 40	8.5	8.8	Fo	3	..	37607i	98	2604	13.3	-11 54	8.8	9.4	Go	3	..	18995b
49	2493	13.0	+ 0 27	8.3	8.7	F5	2	..	37606i	99	2671	13.3	-19 13	9.2	9.6	A3	2	..	13154b
50	2173	13.0	- 0 56	9.2	9.7	F8	4	..	19392b	100	7918	13.3	-24 56	9.75	10.4	Ko	1	..	24494b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6441	13.3	-27 55	8.7	10.1	Ao	2	..	24494b	51	2141	13.5	-54 17	8.1	9.4	K5	1	..	39868b
2	5612	13.3	-37 49	10.9	10.2	A	1	..	18436b	52	1964	13.5	-57 53	9.0	9.4	A2	2	..	38748b
3	5436	13.3	-38 23	9.6	10.2	G5	1	..	18436b	53	1377	13.5	-60 14	9.94	10.5	Ko	1	..	40096b
4	5349	13.3	-39 18	10.0	10.0	A2	1	..	18436b	54	1113	13.5	-63 33	8.7	9.5	G5	3	..	21452b
5	5319	13.3	-44 35	7.1	7.2	Ao	4	0.8	46200b	55	..	13.5	-65 48	var.	var.	Nb	1	0,1R	21452b
6	5060	13.3	-46 47	9.4	9.3	A5	5	..	38415b	56	1055	13.5	-67 40	9.1	9.7	Go	2	..	21452b
7	4807	13.3	-47 16	10.9	10.7	A3	1	..	38415b	57	424	13.5	-78 56	7.9	7.9	Ao	6	..	20869b
8	4806	13.3	-47 54	10.2	10.0	Ao	3	..	38415b	58	302	13.5	-81 55	7.84	8.1	F5	6	0,5	20869b
9	4566	13.3	-48 33	9.6	9.9	G	1	R	38415b	59	559	13.6	+69 52	10.0	10.1	A2	1	..	37706i
10	4273	13.3	-49 9	7.1	7.8	F8	9	..	38415b	60	585	13.6	+67 38	9.5	10.1	G	2	..	37517i
11	3972	13.3	-50 31	9.1	9.0	A2	4	..	38415b	61	1664	13.6	+46 59	9.5	10.5	Ko	2	..	4904m
12	1959	13.3	-57 47	8.9	9.4	Ao	2	..	38748b	62	1855	13.6	+44 1	9.8	10.4	Go	2	..	4904m
13	996	13.3	-66 37	9.1	9.4	Fo	3	..	21452b	63	2558	13.6	-22 15	8.0	8.4	F2	5	..	18977b
14	1053	13.3	-67 52	8.2	8.2	B9	7	..	21452b	64	5933	13.6	-33 11	10.0	9.3	Ao	3	..	18927b
15	911	13.3	-68 44	9.1	9.1	Ao	4	..	21452b	65	5618	13.6	-37 36	9.0	9.1	Fo	3	..	18436b
16	1904	13.4	+43 19	10.0	10.8	G5	1	..	4904m	66	5137	13.6	-42 24	10.0	10.3	Fo	2	..	38418b
17	1927	13.4	+26 40	6.63	7.63	Ko	7	..	37741i	67	2272	13.6	-53 32	8.5	8.5	Ao	4	..	39868b
18	2165	13.4	+18 8	6.60	7.02	F5	8	..	37607i	68	2146	13.6	-54 14	8.3	8.2	B9	6	..	39868b
19	2629	13.4	- 9 3	9.1	9.2	A5	2	..	19231b	69	2073	13.6	-57 4	9.2	9.2	B9	3	..	38748b
20	2799	13.4	-10 52	9.0	9.1	A2	3	..	18995b	70	1026	13.6	-69 41	9.0	10.0	Ko	2	..	21452b
21	2813	13.4	-17 54	9.5	9.9	F5	2	..	13154b	71	349	13.7	+76 34	9.0	10.1	K2	1	..	37714i
22	6443	13.4	-27 26	8.9	9.9	Ko	2	..	24494b	72	2081	13.7	+25 36	8.1	8.5	F5	3	0,2	38646i
23	7108	13.4	-28 59	8.1	8.3	A2	5	..	24494b	73	2742	13.7	-16 12	8.2	9.3	K2	3	..	13154b
24	5438	13.4	-38 7	10.0	9.7	F5	2	..	18436b	74	2639	13.7	-19 3	9.2	10.3	K2	1	..	13154b
25	4961	13.4	-42 1	10.9	10.0	B9	3	..	38418b	75	5549	13.7	-35 16	7.82	9.1	K2	4	..	18436b
26	5120	13.4	-43 10	10.2	9.8	F2	2	..	38418b	76	5356	13.7	-40 4	9.24	10.2	K2	1	..	39925b
27	4570	13.4	-48 32	9.6	9.7	Ao	2	..	38415b	77	4963	13.7	-41 23	10.0	9.7	G5	2	..	38418b
28	3973	13.4	-50 8	9.6	9.7	Ao	3	..	38415b	78	5326	13.7	-44 18	9.6	9.0	Ao	3	..	38418b
29	2051	13.4	-55 13	8.46	9.4	K2	1	..	39868b	79	5009	13.7	-45 51	9.6	9.8	B8	2	..	38418b
30	1961	13.4	-57 7	4.18	7.2	K5	8	R	42241b	80	5066	13.7	-47 4	10.9	10.9	Go	1	..	38415b
31	1205	13.4	-62 48	9.4	9.4	Ao	2	..	40096b	81	4811	13.7	-47 19	7.7	8.9	Ko	4	..	39931b
32	..	13.4	-65 50	..	..	K2	2	..	21452b	82	3979	13.7	-51 1	7.6	7.7	Ao	2	..	42951b
33	1330	13.5	+52 53	6.57	6.57	Ao	9	0,8	38650i	83	1457	13.7	-58 22	8.7	9.4	Ao	7	R	38748b
34	1975	13.5	+34 56	9.12	9.68	Go	1	..	37345i	84	1456	13.7	-58 49	8.8	9.1	B9	3	..	38748b
35	2014	13.5	+12 45	8.7	9.0	F2	3	..	38283i	85	1378	13.7	-60 44	8.8	10.0	Ko	2	..	40096b
36	2009	13.5	+11 23	7.9	8.0	A2	5	..	38283i	86	1019	13.7	-64 48	10.2	10.2	A	1	..	21452b
37	2008	13.5	+11 8	8.3	9.3	Ko	2	..	38283i	87	997	13.7	-66 19	8.8	9.1	Fo	5	..	21452b
38	2590	13.5	- 4 29	8.6	8.6	Ao	3	..	19231b	88	1056	13.7	-67 41	9.4	10.2	G5	2	..	21452b
39	2631	13.5	- 8 27	8.2	8.3	A2	5	..	18995b	89	912	13.7	-69 3	9.7	10.3	Go	3	..	21452b
40	2814	13.5	-17 49	7.8	7.9	A2	8	..	13154b	90	1495	13.8	+51 42	6.12	6.46	F2	8	..	38240i
41	2638	13.5	-18 49	9.0	9.1	A3	2	..	13154b	91	1704	13.8	+45 47	9.8	10.4	Go	1	..	4904m
42	2557	13.5	-22 34	8.4	9.0	Ao	4	..	18977b	92	2190	13.8	+39 58	8.52	9.52	Ko	2	..	37459i
43	7111	13.5	-28 43	8.3	11.0	Ma	1	..	24494b	93	2070	13.8	+24 41	9.21	9.21	Ao	2	..	38646i
44	5932	13.5	-33 38	10.4	9.3	Ao	3	..	18927b	94	2158	13.8	+ 9 31	7.82	8.82	Ko	2	..	38283i
45	5546	13.5	-35 58	8.0	9.6	Ko	3	..	18436b	95	2239	13.8	- 1 18	9.9	10.7	G5	2	..	19392b
46	5133	13.5	-42 28	10.5	10.9	Ko	1	..	38418b	96	2840	13.8	- 2 43	9.0	9.4	F5	3	..	19392b
47	5136	13.5	-42 58	9.4	8.5	A3	5	..	38418b	97	2813	13.8	-14 45	9.2	10.2	Ko	1	..	18995b
48	5124	13.5	-43 12	10.0	10.1	Go	1	..	38418b	98	2673	13.8	-19 56	9.2	9.1	Fo	3	..	18977b
49	3975	13.5	-50 32	11.5	9.9	Ao	1	..	38415b	99	6916	13.8	-26 52	8.1	8.6	F5	4	..	24494b
50	2270	13.5	-53 27	8.0	9.4	Ko	1	..	39868b	100	7410	13.8	-30 59	8.0	9.3	K2	2	..	18927b

THE HENRY DRAPER CATALOGUE.

80300

9h 13m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5934	13.8	-33 21	10.0	9.6	Fo	2	..	18927b	51	1028	14.1	-69 42	8.1	9.1	Ko	2	..	22988b
2	5764	13.8	-34 56	8.39	8.7	A2	4	..	18436b	52	303	14.1	-81 48	9.1	10.1	Ko	1	..	20869b
3	5449	13.8	-38 14	9.1	9.1	F2	3	..	18436b	53	374	14.2	+75 40	8.52	9.08	Go	4	..	37714i
4	5447	13.8	-38 54	10.4	10.2	Ao	2	..	18436b	54	566	14.2	+68 30	10.3	10.3	Ao	1	..	37517i
5	5087	13.8	-40 43	10.4	10.3	Ao	1	..	39925b	55	1496	14.2	+51 44	8.3	9.1	G5	4	..	38240i
6	5128	13.8	-43 16	10.2	9.5	A2	4	..	38418b	56	1742	14.2	+27 37	8.7	9.0	Fo	2	..	38630i
7	3984	13.8	-50 12	10.5	9.6	A2	2	..	38415b	57	2203	14.2	+8 42	8.5	9.1	Go	2	..	9462b
8	2078	13.8	-56 20	7.9	8.2	F5	6	..	38748b	58	2650	14.2	-4 2	9.2	9.8	Go	2	..	19392b
9	1459	13.8	-58 40	8.9	9.5	Ao	2	..	38748b	59	2594	14.2	-4 54	8.8	9.4	Go	3	..	19231b
10	1379	13.8	-60 45	8.4	9.7	K2	2	..	40096b	60	7124	14.2	-28 59	8.7	9.6	F8	2	..	24494b
11	1027	13.8	-69 27	9.1	9.1	Ao	5	..	21452b	61	5091	14.2	-41 5	9.3	9.7	A2	3	..	38418b
12	1905	13.9	+43 2	9.5	10.5	Ko	2	..	4904m	62	5022	14.2	-45 40	9.6	10.1	A	1	..	38418b
13	2022	13.9	+38 12	7.9	8.9	Ko	4	..	37345i	63	3995	14.2	-50 32	10.0	9.7	A5	2	..	38415b
14	2792	13.9	-10 0	8.11	8.17	A2	6	..	18995b	64	570	14.2	-75 10	7.88	7.6	Ao	9	..	21453b
15	2606	13.9	-11 49	10.4	10.5	A2	1	..	18995b	65	517	14.3	+69 47	7.39	8.57	K5	5	..	37706i
16	2674	13.9	-19 56	8.0	8.3	A3	7	..	18977b	66	1832	14.3	+49 32	8.7	8.8	A2	1	..	38240i
17	2853	13.9	-21 10	8.8	9.1	Ao	4	..	18977b	67	2277	14.3	+1 19	7.9	8.9	Ko	3	..	37606i
18	7058	13.9	-25 21	9.4	10.1	Ko	1	..	24494b	68	2177	14.3	-1 3	9.6	10.2	Go	2	..	19392b
19	7123	13.9	-31 56	9.5	9.6	A2	2	..	18927b	69	2749	14.3	-16 22	6.91	6.91	Ao	8	..	13154b
20	5360	13.9	-39 10	9.6	10.0	Ko	1	..	18436b	70	2748	14.3	-16 24	8.7	8.8	A3	5	..	13154b
21	5088	13.9	-40 35	8.7	10.2	Ko	1	..	39925b	71	2855	14.3	-20 25	9.9	9.6	Ao	2	..	18977b
22	4968	13.9	-41 20	10.4	10.2	F8	1	..	38418b	72	8245	14.3	-24 3	8.32	8.7	F8	4	..	18977b
23	5330	13.9	-44 26	10.0	10.1	F8	1	..	38418b	73	7128	14.3	-28 30	9.2	10.1	F8	1	..	24494b
24	1222	13.9	-61 36	9.1	10.3	K5	1	..	40096b	74	7333	14.3	-29 6	9.1	10.2	K5	1	..	24494b
25	1209	13.9	-62 27	8.9	8.9	B8	2	..	40096b	75	7415	14.3	-30 55	8.3	9.3	F8	3	..	18927b
26	..	13.9	-66 25	..	..	Ko	1	..	21452b	76	7129	14.3	-31 31	9.7	9.3	Ao	2	..	18927b
27	2083	14.0	+24 51	7.81	8.59	Go	4	5,3	38646i	77	5633	14.3	-37 57	10.2	9.9	A	1	..	18436b
28	2014	14.0	+20 58	7.9	9.0	K2	3	..	37607i	78	5146	14.3	-42 42	10.9	10.7	A2	1	..	38418b
29	2744	14.0	-16 47	8.8	9.8	Ko	3	..	13154b	79	5024	14.3	-45 12	9.8	9.2	Ao	2	..	38418b
30	6923	14.0	-26 33	9.9	10.4	F5	1	..	24494b	80	5025	14.3	-45 13	7.25	7.4	B8	7	..	38418b
31	7125	14.0	-31 16	9.9	9.9	Ao	1	..	18927b	81	4818	14.3	-47 55	9.6	8.7	Ao	2	..	39931b
32	5543	14.0	-36 58	6.99	7.0	Go	7	..	18436b	82	4580	14.3	-48 53	10.0	9.6	F8	2	..	38415b
33	5361	14.0	-39 11	9.8	10.0	A3	1	..	18436b	83	2185	14.3	-52 25	9.0	9.1	A	2	E	40275b
34	5139	14.0	-42 42	11.5	10.6	G5	1	..	38418b	84	2083	14.3	-56 47	9.7	9.7	A	1	..	38748b
35	4283	14.0	-49 50	10.9	9.9	Ao	3	..	38415b	85	1970	14.3	-57 23	8.9	9.8	K5	1	..	38748b
36	3987	14.0	-50 24	10.9	10.2	A5	1	..	38415b	86	1212	14.3	-62 15	8.7	8.8	A2	3	..	40096b
37	1831	14.1	+49 2	8.1	8.9	G5	3	..	38240i	87	425	14.3	-78 42	9.5	10.6	K2	2	..	21453b
38	1739	14.1	+28 43	8.0	9.1	K2	2	..	37741i	88	..	14.4	+78 51	..	..	..	..	..	..
39	1972	14.1	+10 13	7.35	8.35	Ko	5	..	38283i	89	305	14.4	+78 51	8.04	8.60	G	5	R	37493i
40	2240	14.1	-2 1	7.74	7.82	A3	8	..	19392b	90	1214	14.4	+57 8	5.98	7.33	Mb	8	..	37705i
41	2772	14.1	-6 5	9.2	10.0	G5	2	..	19231b	91	1977	14.4	+35 33	8.7	9.7	Ko	1	..	37345i
42	2815	14.1	-14 46	9.9	10.0	A2	2	..	18995b	92	2071	14.4	+13 21	9.2	9.6	F5	2	..	38283i
43	5943	14.1	-33 25	9.3	9.3	A5	3	..	18927b	93	2072	14.4	+13 9	9.9	9.9	A	1	..	38283i
44	5363	14.1	-39 54	9.6	9.1	A2	3	..	18436b	94	2778	14.4	-7 56	8.2	8.6	F5	4	..	19231b
45	5338	14.1	-45 4	9.39	9.3	A5	2	..	38418b	95	2801	14.4	-10 44	7.69	8.69	Ko	5	..	18995b
46	5072	14.1	-46 50	10.2	10.4	Ao	2	..	38415b	96	2856	14.4	-20 22	8.6	9.6	G5	2	..	18977b
47	3990	14.1	-50 9	7.4	8.4	Ko	7	..	38415b	97	7131	14.4	-28 16	8.5	9.6	Fo	3	..	24494b
48	1336	14.1	-59 52	9.2	10.0	G5	1	7,1R	38748b	98	7129	14.4	-28 55	8.5	9.2	F8	4	..	24494b
49	1381	14.1	-60 11	9.84	10.6	G5	1	..	40096b	99	5558	14.4	-35 18	8.8	9.4	F5	3	..	18436b
50	998	14.1	-67 0	9.0	9.1	A2	4	..	21452b	100	5559	14.4	-35 33	8.4	9.3	Ko	3	..	18436b

ANNALS OF HARVARD COLLEGE OBSERVATORY.

80400

9^h 14^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4581	14.4	-48 41	10.0	9.6	Ao	3	..	38415b	51	5153	14.7	-42 10	10.5	10.5	A2	1	..	38418b
2	4288	14.4	-49 29	10.0	9.3	Ao	4	..	38415b	52	5151	14.7	-42 36	10.9	10.7	F8	2	..	38418b
3	3996	14.4	-50 19	10.0	9.7	B9	2	..	38415b	53	5149	14.7	-42 56	9.2	7.9	A2	6	..	38418b
4	1465	14.4	-58 51	2.25	2.53	Fo	..	R	28,203	54	5031	14.7	-45 25	9.2	8.7	Ao	4	..	38418b
5	573	14.4	-74 25	8.3	9.3	Ko	3	..	21453b	55	3998	14.7	-50 22	10.5	10.1	Ao	1	..	38415b
6	586	14.5	+67 26	8.9	9.9	K	2	..	37517i	56	4001	14.7	-50 38	5.34	5.6	B9	..	0,7 R	56,126
7	1492	14.5	+46 18	8.1	9.1	Ko	5	5,2	4904m	57	1469	14.7	-58 18	7.9	8.3	F5	6	..	38748b
8	1977	14.5	+34 12	8.6	9.4	G5	1	..	37345i	58	1225	14.7	-61 54	8.9	9.1	Ao	4	..	40096b
9	1931	14.5	+26 9	8.7	9.7	Ko	2	..	38646i	59	1114	14.7	-63 21	6.8	6.8	B9	9	..	21452b
10	1945	14.5	+16 22	8.9	9.7	G5	2	..	38283i	60	837	14.8	+63 17	9.3	9.9	G	1	..	37517i
11	2653	14.5	- 3 17	9.2	9.5	Fo	6	..	19392b	61	1708	14.8	+45 47	6.62	7.62	Ko	5	0,9	38240i
12	2638	14.5	- 9 8	8.7	9.2	F8	2	..	19231b	62	2161	14.8	+ 5 27	8.5	9.3	G5	2	..	37606i
13	2802	14.5	-10 49	9.1	9.9	G5	3	..	21395b	63	2657	14.8	- 3 17	10.1	11.1	Ko	1	..	19392b
14	2762	14.5	-15 21	9.5	9.6	A2	2	..	13154b	64	2774	14.8	- 5 34	8.0	9.2	K5	4	..	19231b
15	2751	14.5	-16 46	8.6	9.7	K2	3	..	13154b	65	2569	14.8	-22 59	7.9	9.0	Ao	4	..	18977b
16	8250	14.5	-23 19	9.9	9.0	A2	3	..	18977b	66	5560	14.8	-36 59	8.7	8.7	Fo	4	..	18436b
17	5952	14.5	-33 12	8.7	8.4	Ao	5	..	18927b	67	5098	14.8	-40 40	8.7	10.2	Ko	2	..	39925b
18	5369	14.5	-39 34	8.8	10.0	Ko	1	..	18436b	68	5156	14.8	-42 59	9.8	10.5	K2	1	..	38418b
19	2059	14.5	-55 31	7.4	8.3	Ko	4	..	39868b	69	5353	14.8	-44 35	9.4	9.3	B9	3	..	38418b
20	1466	14.5	-58 38	8.8	9.1	B9	3	..	38748b	70	5033	14.8	-45 31	9.1	9.3	Ko	2	..	38418b
21	1339	14.5	-59 28	9.0	9.2	Ao	2	..	38748b	71	5076	14.8	-46 45	9.6	9.2	Ao	2	..	39931b
22	1338	14.5	-59 30	8.7	8.8	A	2	..	38748b	72	1226	14.8	-62 1	9.0	9.4	Ao	3	..	40096b
23	1185	14.6	+58 6	9.0	9.6	Go	2	..	38224i	73	574	14.8	-74 42	9.2	9.2	Ao	3	..	21453b
24	2205	14.6	+ 8 36	8.5	8.5	Ao	3	E	38283i	74	206	14.9	+84 10	8.05	8.83	G5	3	..	37546i
25	2158	14.6	+ 5 39	6.51	6.65	A5	9	..	37606i	75	1293	14.9	+54 3	8.5	9.9	Mb	2	..	38650i
26	2654	14.6	- 3 56	8.6	8.7	A2	5	..	19392b	76	2017	14.9	+20 51	9.1	10.3	K5	1	..	38646i
27	2779	14.6	- 7 29	9.2	9.7	F8	2	..	19231b	77	2178	14.9	- 0 14	8.78	9.78	Ko	6	0,5	19340b
28	2676	14.6	-20 1	9.2	9.4	F8	1	..	18977b	78	2241	14.9	- 1 43	9.2	9.7	F8	5	..	19392b
29	2756	14.6	-22 8	7.14	7.6	Ao	9	..	18977b	79	2763	14.9	-15 24	5.93	6.93	Ko	8	..	13154b
30	7134	14.6	-28 46	9.4	10.1	A3	2	..	24494b	80	6466	14.9	-27 43	8.5	9.2	A2	4	..	24494b
31	5953	14.6	-33 40	7.46	8.5	Mb	4	5,3	18436b	81	6268	14.9	-32 42	10.2	9.3	A5	2	..	18927b
32	5457	14.6	-38 37	6.66	7.4	Ao	..	0,9	56,126	82	5780	14.9	-34 6	8.4	10.2	K5	1	..	18927b
33	5348	14.6	-44 34	9.1	9.3	F2	2	..	38418b	83	5380	14.9	-39 20	9.4	10.3	K5	1	..	39925b
34	3686	14.6	-51 33	9.1	8.8	Fo	3	..	39868b	84	5355	14.9	-44 11	8.5	8.3	Ao	6	..	38418b
35	2281	14.6	-54 4	6.26	8.2	Ko	7	..	39868b	85	2091	14.9	-56 44	9.0	9.2	Ao	2	..	38748b
36	1224	14.6	-62 1	8.3	8.5	B9	4	..	40096b	86	1341	14.9	-59 6	10.3	10.3	A	1	..	38748b
37	915	14.6	-69 2	9.5	10.0	F8	4	..	21452b	87	1340	14.9	-59 10	9.1	9.1	F5	3	..	38748b
38	1292	14.7	+54 11	8.7	9.7	Ko	2	..	38650i	88	999	14.9	-66 42	8.8	8.8	B8	6	..	21452b
39	1707	14.7	+45 14	9.3	9.8	F8	2	..	4904m	89	1030	14.9	-69 13	8.2	8.2	Ao	6	..	21452b
40	1906	14.7	+43 26	10.3	10.8	F8	2	..	4904m	90	575	14.9	-74 52	8.3	8.9	Go	6	..	21453b
41	2025	14.7	+38 37	5.86	6.20	F2	8	..	37345i	91	..	15.0	+43 35	..	..	K5	1	..	4904m
42	1970	14.7	+37 8	8.8	8.9	A2	3	..	37345i	92	2194	15.0	+40 5	7.12	8.12	Ko	5	..	37345i
43	1978	14.7	+34 37	8.6	9.4	G5	2	..	37345i	93	1979	15.0	+34 49	3.30	4.48	K5	..	0,10	1740c
44	2165	14.7	+ 4 43	8.40	8.74	F2	4	..	37606i	94	2078	15.0	+23 5	8.3	9.1	G5	2	..	37607i
45	2656	14.7	- 3 46	9.2	10.3	K2	1	..	19392b	95	2198	15.0	+19 33	7.30	8.08	G5	5	..	37607i
46	2655	14.7	- 4 7	8.6	9.4	G5	4	..	19392b	96	2020	15.0	+11 57	9.0	9.8	G5	2	..	38283i
47	2804	14.7	-10 53	6.53	6.59	A2	..	2,10	56,86	97	2242	15.0	- 1 33	9.2	9.3	A2	5	..	19392b
48	7073	14.7	-25 50	8.7	9.3	G5	1	..	24494b	98	2805	15.0	-10 46	8.4	9.5	K2	2	..	18995b
49	7070	14.7	-25 52	10.2	10.4	Fo	1	..	24494b	99	2609	15.0	-11 33	4.94	5.72	G5	..	..	56,86
50	6264	14.7	-32 59	10.0	9.6	Go	1	..	18927b	100	5640	15.0	-37 10	10.0	10.5	A2	1	..	39925b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5463	15.0	-39 0	7.6	8.6	Ko	4	..	18436b	51	2808	15.4	-10 18	8.81	9.99	K5	1	..	18995b
2	5382	15.0	-39 15	10.0	10.3	Ao	1	..	39925b	52	2572	15.4	-22 32	8.6	9.1	F8	4	..	18977b
3	4983	15.0	-41 58	10.9	10.6	Ao	1	..	38418b	53	7087	15.4	-25 14	9.55	10.1	Ko	2	..	24494b
4	5039	15.0	-45 43	10.0	10.1	A2	1	..	38418b	54	7354	15.4	-29 28	9.7	9.6	F5	2	..	13281b
5	4295	15.0	-49 30	9.8	9.0	Ao	5	..	38415b	55	5465	15.4	-38 26	8.7	8.5	Fo	4	..	18436b
6	3691	15.0	-51 16	9.4	9.6	Ko	2	..	38415b	56	5111	15.4	-40 42	8.7	9.1	A5	3	..	39925b
7	1214	15.0	-62 29	8.4	8.5	A3	3	..	38748b	57	5159	15.4	-44 2	9.8	10.1	Ko	1	..	38418b
8	2195	15.1	+40 43	6.98	7.04	A2	5	..	37345i	58	3693	15.4	-51 8	5.87	7.3	B8p	..	R	56,126
9	1980	15.1	+35 23	7.9	8.3	F5	5	..	37345i	59	1977	15.4	-57 32	8.9	9.1	A5	2	..	38748b
10	2062	15.1	+17 33	7.6	7.9	F2	5	..	37607i	60	1978	15.4	-57 41	8.6	9.2	A2	3	..	38748b
11	2014	15.1	+11 24	8.5	9.5	Ko	2	..	38283i	61	1474	15.4	-58 52	9.6	9.7	A2	3	..	38748b
12	2819	15.1	-14 21	8.7	8.8	A2	4	..	18995b	62	1383	15.4	-60 48	10.9	10.9	A	2	..	40096b
13	2858	15.1	-20 18	9.9	10.2	K	1	..	18977b	63	1215	15.4	-62 58	8.2	8.5	Fo	4	..	21452b
14	7347	15.1	-29 22	9.2	9.9	K5	1	..	13281b	64	1216	15.5	+57 32	9.5	10.5	Ko	1	..	38224i
15	5152	15.1	-43 37	9.1	8.9	A3	5	..	38418b	65	1332	15.5	+53 22	8.7	9.8	K2	2	..	38650i
16	1097	15.1	-65 20	9.1	9.2	A3	4	..	21452b	66	1409	15.5	+51 26	8.42	9.49	K2	2	..	38240i
17	806	15.1	-71 45	7.9	8.0	A3	4	..	22988b	67	2499	15.5	+ 0 36	6.82	8.17	Mb	5	..	37606i
18	567	15.2	+68 8	8.9	9.7	G5	1	..	37517i	68	2243	15.5	- 1 24	9.4	9.5	A2	2	..	19392b
19	1756	15.2	+48 15	9.8	10.8	K	1	R	38240i	69	2823	15.5	-18 7	8.6	9.0	F5	5	..	13154b
20	2078	15.2	+22 6	8.6	9.2	Go	2	..	38646i	70	4987	15.5	-41 51	10.4	10.6	K2	1	..	38418b
21	2864	15.2	-12 53	7.21	8.21	Ko	6	E	21395b	71	5084	15.5	-46 13	8.2	8.9	Ko	3	..	39931b
22	6473	15.2	-27 50	8.7	10.7	K2	1	..	24494b	72	4831	15.5	-47 33	7.3	8.0	G5	6	..	39931b
23	7348	15.2	-29 17	8.5	9.3	K5	1	..	13281b	73	4302	15.5	-49 22	8.8	8.4	B9	6	..	38415b
24	7138	15.2	-31 48	8.9	8.4	F5	4	..	18927b	74	4304	15.5	-49 25	9.1	9.0	Ao	5	..	38415b
25	5164	15.2	-42 26	11.5	10.7	Ao	1	..	38418b	75	4305	15.5	-49 48	10.0	9.9	Ko	1	..	38415b
26	5163	15.2	-42 59	10.5	10.5	G5	1	..	38418b	76	2096	15.5	-56 44	9.0	9.2	Fo	3	..	38748b
27	5362	15.2	-44 35	7.5	8.1	Ko	6	..	38418b	77	2095	15.5	-56 51	7.0	8.2	K2	7	..	38748b
28	5081	15.2	-46 47	7.7	7.4	B9	5	0,7	46200b	78	312	15.5	-82 26	8.6	9.0	F5	3	0,2	20869b
29	4010	15.2	-50 10	9.20	9.0	F5	4	..	38415b	79	350	15.6	+76 28	9.6	10.2	G	1	..	37714i
30	1058	15.2	-67 47	9.1	9.1	Ao	3	..	21452b	80	1865	15.6	+32 41	6.58	6.58	Ao	8	..	37741i
31	490	15.2	-77 48	8.4	8.5	A3	7	..	21453b	81	2085	15.6	+25 47	8.8	9.8	Ko	2	..	38646i
32	518	15.3	+69 18	7.9	9.0	K2	3	..	37706i	82	2021	15.6	+12 23	8.5	8.8	Fo	4	..	38283i
33	610	15.3	+66 35	8.5	9.1	Go	1	..	37517i	83	2022	15.6	+12 21	9.2	10.2	Ko	1	..	38283i
34	1709	15.3	+45 21	8.8	9.4	Go	6	5,1	4904m	84	2285	15.6	+ 1 18	8.5	8.5	Ao	4	..	37606i
35	1888	15.3	+28 57	9.7	9.8	A3	1	..	37741i	85	2644	15.6	- 8 28	8.6	9.6	Ko	2	..	19231b
36	2084	15.3	+25 36	7.26	7.82	Go	5	..	37741i	86	2643	15.6	- 9 8	4.97	5.75	G5	..	R	56,86
37	2498	15.3	+ 0 42	7.65	8.43	G5	4	..	37606i	87	7958	15.6	-24 50	8.0	8.9	Ko	4	..	24494b
38	2777	15.3	- 5 34	9.5	9.8	Fo	2	..	19231b	88	7090	15.6	-25 9	9.55	9.6	A3	3	..	24494b
39	2821	15.3	-17 45	9.5	9.5	Ao	3	..	13154b	89	6476	15.6	-27 21	7.9	8.0	Ao	7	..	24494b
40	6946	15.3	-26 59	8.5	9.6	F2	2	..	24494b	90	5973	15.6	-33 41	6.48	6.9	B8	8	0,10	9427b
41	6272	15.3	-32 30	8.0	9.0	K5	2	..	18927b	91	5651	15.6	-37 43	8.5	9.6	K5	2	..	18436b
42	5108	15.3	-41 3	7.6	8.2	G5	6	..	38418b	92	4991	15.6	-41 31	10.7	9.7	B9	2	..	38418b
43	5157	15.3	-43 45	10.0	9.2	Ao	4	..	38418b	93	4989	15.6	-41 49	11.4	10.6	Ao	1	..	38418b
44	2163	15.3	-54 24	9.1	9.7	Ko	1	..	39868b	94	5168	15.6	-42 48	9.6	9.1	F2	4	..	38418b
45	1976	15.3	-57 21	8.7	9.8	K2	1	..	38748b	95	4832	15.6	-47 59	10.0	9.8	Go	2	..	38415b
46	1848	15.4	+33 21	6.22	7.22	Ko	7	..	37741i	96	4596	15.6	-49 1	11.5	10.2	G	1	..	38415b
47	1932	15.4	+26 26	8.1	8.5	F5	3	..	37741i	97	4013	15.6	-50 19	9.2	9.0	A2	3	..	38415b
48	2658	15.4	- 4 11	9.0	10.0	Ko	2	..	19392b	98	2293	15.6	-53 11	8.0	8.3	B8	5	..	39868b
49	2782	15.4	- 7 57	8.8	9.4	Go	2	..	19231b	99	1229	15.6	-61 24	8.7	8.8	Ao	3	..	38748b
50	2801	15.4	- 9 11	6.87	7.21	F2	7	..	18995b	100	1021	15.6	-64 25	9.7	9.7	Ao	2	..	21452b

80600

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1098	15.6	-66 5	8.9	9.7	G5	2	..	21452b	51	2080	15.9	+23 12	7.9	9.0	K2	2	..	38646i
2	1000	15.6	-66 8	8.6	9.1	F8	5	..	21452b	52	2065	15.9	+17 2	6.79	6.93	A5	7	..	37607i
3	1061	15.6	-67 15	7.5	8.5	Ko	8	..	21452b	53	2079	15.9	+14 49	9.9	10.7	G5	1	..	38283i
4	1060	15.6	-67 45	9.4	9.4	B9	4	..	21452b	54	2074	15.9	+13 33	6.58	7.00	F5	7	..	38283i
5	838	15.7	+63 37	8.7	9.8	K2	2	..	37517i	55	2023	15.9	+12 41	8.5	9.9	Mb	2	..	38283i
6		15.7	+51 2			G5	1			56	2825	15.9	-13 18	9.2	9.2	A	3	..	18995b
7	1500	15.7	+51 2	8.6	9.4	G5	2	R	38240i	57	2766	15.9	-15 49	9.2	10.0	G5	3	..	13154b
8	1633	15.7	+49 57	6.86	6.84	B9	7	..	38240i	58	2575	15.9	-22 59	8.4	9.0	G5	2	..	18977b
9	1833	15.7	+48 51	7.36	7.70	F2	5	..	38240i	59	7360	15.9	-29 7	9.2	9.9	A3	1	..	13281b
10	1856	15.7	+43 56	9.8	10.1	F2	2	..	4904m	60	5170	15.9	-43 46	9.8	9.8	G5	1	..	38418b
11	2079	15.7	+23 20	8.0	9.0	Ko	2	..	38646i	61	5171	15.9	-43 53	10.0	9.8	Fo	3	..	38418b
12	2305	15.7	+19 53	8.75	9.31	Go	2	..	37607i	62	4838	15.9	-47 12	10.5	10.4	F5	1	..	38415b
13	2027	15.7	+15 48	6.49	6.49	Ao	8	..	37607i	63	4839	15.9	-48 1	10.0	10.1	Ao	3	..	38415b
14	2596	15.7	- 4 42	8.2	9.6	Ma	2	..	19392b	64	4600	15.9	-48 33	9.4	9.5	F8	3	..	38415b
15	2784	15.7	- 7 16	9.0	10.0	Ko	1	..	19231b	65	4312	15.9	-49 17	10.5	10.2	Ko	1	..	38415b
16	2824	15.7	-14 19	9.0	9.5	F8	3	..	18995b	66	4017	15.9	-50 18	10.2	9.6	Ao	2	..	38415b
17	2647	15.7	-18 31	8.6	8.7	A2	3	..	13154b	67	2076	15.9	-55 38	8.3	9.1	K2	3	..	39868b
18	2574	15.7	-23 3	7.58	8.4	Fo	7	..	18977b	68	1385	15.9	-61 2	9.4	10.6	K5	1	..	40096b
19	6949	15.7	-26 17	8.5	10.1	Ko	2	..	24494b	69	1234	15.9	-61 9	10.6	10.6	Ao	2	..	40096b
20	6951	15.7	-26 25	8.1	8.3	Ao	5	..	24494b	70	1001	15.9	-66 16	8.2	8.6	F5	6	..	21452b
21	6477	15.7	-27 9	8.1	10.7	Ma	1	..	24494b	71	918	15.9	-68 16	5.44	5.3	F2	..	..	56,126
22	7150	15.7	-31 16	9.2	9.3	G5	1	..	18927b	72	1033	15.9	-69 12	8.6	8.6	Ao	5	..	21452b
23	5115	15.7	-40 8	9.14	10.0	F8	2	..	39925b	73	588	16.0	+67 38	9.0	9.6	Go	2	..	37517i
24	4598	15.7	-48 9	10.5	9.9	Ao	2	..	38415b	74	1494	16.0	+46 43	9.1	9.9	G5	3	..	4904m
25	4306	15.7	-49 39	9.0	8.1	A2	4	..	39931b	75	1710	16.0	+45 27	9.5	10.1	Go	5	..	4904m
26	3698	15.7	-51 54	8.9	8.5	A	2	E	40275b	76	2024	16.0	+12 47	8.6	9.7	K2	2	..	38283i
27	1477	15.7	-59 0	10.3	10.3	A	1	..	38748b	77	1980	16.0	+ 9 59	8.32	9.39	K2	1	..	38283i
28	1346	15.7	-59 13	7.7	7.9	Ao	7	..	38748b	78	2193	16.0	+ 3 22	7.02	7.36	F2	7	..	37606i
29	1231	15.7	-61 15	8.4	9.7	K2	1	..	38748b	79	2183	16.0	- 0 13	9.38	9.80	F5	3	..	19392b
30	572	15.7	-75 44	9.0	9.8	G5	3	..	21453b	80	2853	16.0	- 2 22	9.0	10.0	Ko	2	..	19392b
31	2500	15.8	+ 0 16	8.6	9.6	Ko	4	0,3	19340b	81	2851	16.0	- 2 32	9.0	9.3	F2	4	..	19392b
32	2778	15.8	- 5 20	8.95	10.02	K2	1	..	19231b	82	2852	16.0	- 3 7	9.0	9.4	F5	2	..	19392b
33	2785	15.8	- 7 18	7.6	8.1	F8	6	..	19231b	83	2779	16.0	- 5 33	9.5	9.9	F5	1	..	19231b
34	2868	15.8	-12 26	10.4	11.0	G	1	..	18995b	84	2869	16.0	-12 11	9.7	10.0	Fo	1	..	18995b
35	2757	15.8	-16 59	8.4	9.2	G5	3	..	13154b	85	2826	16.0	-13 23	8.0	8.4	F5	6	..	18995b
36	2649	15.8	-19 5	9.1	9.7	Go	2	..	13154b	86	2826	16.0	-14 49	9.2	9.7	F8	1	..	18995b
37	2861	15.8	-20 56	9.0	9.4	Go	2	..	18977b	87	2767	16.0	-15 30	10.1	10.1	Ao	2	..	13154b
38	8274	15.8	-23 32	9.7	9.3	A3	2	..	18977b	88	2685	16.0	-19 51	9.2	9.6	Ao	2	..	13154b
39	7094	15.8	-25 12	9.15	8.9	Ao	5	..	24494b	89	6281	16.0	-32 16	9.4	9.3	Fo	2	..	18927b
40	6279	15.8	-32 15	8.7	9.3	G5	2	..	18927b	90	5575	16.0	-36 8	8.7	9.6	Ko	2	..	18436b
41	5790	15.8	-35 4	7.08	7.5	Ko	7	..	18436b	91	5474	16.0	-39 3	9.4	10.3	Ko	1	..	39925b
42	5572	15.8	-36 40	8.2	9.9	K5	1	..	18436b	92	5053	16.0	-45 15	9.69	10.0	B9	2	..	38418b
43	5470	15.8	-38 37	10.4	10.0	Ao	2	..	18436b	93	1347	16.0	-59 54	10.0	10.3	Fo	1	..	40096b
44	4992	15.8	-41 22	9.4	9.4	B8	4	..	38418b	94	1386	16.0	-60 37	8.0	9.5	K2	2	..	38748b
45	4835	15.8	-47 45	10.9	10.4	A5	2	..	38415b	95	573	16.0	-75 40	9.1	10.1	Ko	2	..	21453b
46	1384	15.8	-60 52	8.4	9.5	K5	1	..	38748b	96	366	16.1	+77 18	9.0	9.8	G5	3	..	37714i
47	917	15.8	-68 9	9.5	9.5	Ao	3	..	40074b	97	1666	16.1	+47 32	9.0	9.8	G5	1	..	38240i
48	491	15.8	-77 55	9.8	10.2	F5	2	..	21453b	98	1950	16.1	+36 1	8.1	9.1	Ko	3	..	37345i
49	1890	15.9	+28 56	7.9	8.2	F2	6	..	37741i	99	2201	16.1	+19 11	7.72	8.28	Go	4	..	37607i
50	1745	15.9	+27 18	8.8	9.9	K2	2	..	38646i	100	2153	16.1	+ 5 57	8.3	8.8	F8	4	..	37606i

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2171	16.1	+ 3 51	7.9	8.2	Fo	4	..	37606i	51	2868	16.4	-20 33	8.4	8.4	F2	5	..	18977b
2	2809	16.1	-11 10	8.7	9.5	G5	6	E	21395b	52	7160	16.4	-28 47	8.1	7.8	A2	8	..	24494b
3	2611	16.1	-12 9	9.2	10.2	Ko	1	..	18995b	53	7368	16.4	-29 24	9.7	9.3	A2	1	..	13281b
4	2826	16.1	-17 48	8.8	9.8	Ko	1	..	13154b	54	5594	16.4	-35 29	9.0	9.6	A2	3	..	18436b
5	7158	16.1	-28 42	7.32	8.0	Ko	7	..	24494b	55	5582	16.4	-36 54	8.0	9.6	K5	2	..	18436b
6	7155	16.1	-31 38	8.0	8.5	A2	5	..	18927b	56	5666	16.4	-37 26	9.0	9.9	G5	2	..	18436b
7	5408	16.1	-39 45	9.4	9.4	Ko	2	..	18436b	57	5125	16.4	-40 9	9.28	10.3	Ko	1	..	39925b
8	5121	16.1	-41 0	11.4	10.3	A3	1	..	38418b	58	5124	16.4	-40 15	9.44	10.2	Ko	1	..	39925b
9	5054	16.1	-45 21	9.8	9.8	F8	2	..	38418b	59	5183	16.4	-42 58	7.8	8.5	Ko	5	..	38418b
10	1002	16.1	-66 37	5.88	7.9	Ko	10	..	21452b	60	5179	16.4	-43 17	10.0	10.1	A2	2	..	38418b
11	463	16.2	+73 42	9.3	10.1	G5	2	..	37714i	61	5095	16.4	-46 31	7.3	7.4	B8	5	0,7	46200b
12	1234	16.2	+59 45	9.11	9.67	Go	2	..	38224i	62	4844	16.4	-47 38	10.0	10.1	A2	2	..	38415b
13	1495	16.2	+46 20	10.0	10.6	Go	1	..	4904m	63	4842	16.4	-47 42	10.2	10.5	A	2	..	38415b
14	1857	16.2	+44 1	8.8	9.1	F2	5	R	4904m	64	4318	16.4	-49 23	10.9	9.3	Ao	1	..	39931b
15	2197	16.2	+40 40	7.71	8.78	K2	2	..	37345i	65	2304	16.4	-53 57	8.5	9.1	K5	2	..	39868b
16	1985	16.2	+35 15	9.1	10.1	Ko	1	..	37345i	66	1034	16.4	-69 58	7.7	8.5	G5	2	..	22988b
17	2811	16.2	-10 57	9.1	9.9	G5	3	E	21395b	67	875	16.4	-70 15	9.4	9.4	Ao	2	..	40074b
18	2830	16.2	-15 2	9.16	10.34	K5	1	..	18995b	68	351	16.5	+76 22	9.1	10.2	K2	1	..	37714i
19	2828	16.2	-15 11	6.34	6.76	F5	9	..	13154b	69	2689	16.5	-19 45	9.2	10.2	K2	1	..	13154b
20	2651	16.2	-19 10	9.5	10.0	G5	1	..	13154b	70	6488	16.5	-27 30	9.2	9.8	Fo	2	..	24494b
21	5578	16.2	-36 32	7.8	8.8	K2	3	..	18436b	71	7161	16.5	-28 22	7.54	8.3	K2	6	..	24494b
22	5581	16.2	-36 56	9.1	9.6	G5	2	..	18436b	72	7456	16.5	-30 17	8.7	9.3	Fo	1	..	18927b
23	4997	16.2	-41 35	9.1	9.4	Ko	3	..	38418b	73	7162	16.5	-31 20	6.78	7.4	Ao	9	..	18927b
24	4998	16.2	-41 41	10.0	9.7	A2	2	..	38418b	74	5668	16.5	-37 9	6.10	7.5	Ko	7	..	18436b
25	4841	16.2	-47 12	9.2	9.0	A2	3	..	39931b	75	5126	16.5	-41 1	9.0	9.1	Ao	5	..	38418b
26	2080	16.2	-55 56	6.7	7.4	A2	8	0,9	39868b	76	5186	16.5	-42 59	9.8	10.0	F2	2	..	38418b
27	1387	16.2	-60 33	8.3	8.9	Fo	4	..	38748b	77	5382	16.5	-44 45	6.8	7.6	Ko	7	..	39931b
28	1217	16.2	-62 32	9.5	9.5	Ao	2	..	40096b	78	5096	16.5	-46 20	9.2	10.0	G5	1	..	39931b
29	1099	16.2	-65 44	9.2	9.2	Ao	4	..	21452b	79	4026	16.5	-50 7	9.10	8.6	Ao	5	..	38415b
30	503	16.3	+70 52	8.7	9.5	G5	1	..	37706i	80	2306	16.5	-53 18	7.9	8.5	A3	3	..	39868b
31	1069	16.3	+62 12	8.3	8.6	Fo	3	5,3	37517i	81	2186	16.5	-54 45	6.44	6.1	B5	..	2,10	28,203
32	2082	16.3	+21 55	8.3	9.3	Ko	3	..	37607i	82	1100	16.5	-65 56	9.7	9.7	Ao	3	..	21452b
33	2172	16.3	+ 4 23	8.5	9.5	Ko	5	0,2	19340b	83	1118	16.6	+60 52	7.48	8.55	K2	3	..	37705i
34	2871	16.3	-12 23	9.5	10.5	K	1	..	18995b	84	1496	16.6	+46 32	9.8	10.9	K2	1	..	4904m
35	8283	16.3	-23 41	8.0	8.7	Ko	5	..	18977b	85	2829	16.6	-13 26	9.5	10.3	G5	2	..	18995b
36	7366	16.3	-29 28	8.1	9.3	K5	2	..	13281b	86	5597	16.6	-35 22	10.4	9.6	A5	2	..	18436b
37	5092	16.3	-46 18	9.6	9.8	A	1	..	39931b	87	5596	16.6	-35 31	10.0	10.2	A	1	..	18436b
38	4605	16.3	-48 38	10.5	10.3	F8	1	..	38415b	88	5190	16.6	-42 36	8.5	9.1	Ko	5	..	38418b
39	1481	16.3	-58 34	10.2	10.2	Ao	1	..	38748b	89	5060	16.6	-45 55	9.8	9.8	A2	2	..	39931b
40	1480	16.3	-58 57	9.6	9.7	A5	2	..	38748b	90	1482	16.6	-58 30	7.1	7.6	F8	7	..	38748b
41	1235	16.3	-61 30	9.7	9.7	A	2	R	40096b	91	1236	16.6	-61 30	10.6	10.6	A	1	..	40096b
42	1022	16.3	-65 0	7.64	8.8	Ko	8	5,3	21452b	92	1331	16.7	+55 38	7.9	8.9	Ko	4	..	37705i
43	2001	16.4	+42 38	8.1	8.6	F8	2	..	37459i	93	1859	16.7	+44 7	9.5	10.3	G5	1	..	4904m
44	2210	16.4	+ 8 39	8.4	8.8	F5	3	..	9462b	94	2199	16.7	+40 7	8.8	8.9	A2	2	..	37345i
45	2244	16.4	- 2 0	10.6	11.2	Go	2	..	19392b	95	2185	16.7	+ 2 19	8.3	9.4	K2	3	..	19340b
46	2660	16.4	- 3 49	9.0	9.6	Go	2	..	19392b	96	2859	16.7	- 2 22	7.10	7.08	B9	7	..	21505b
47	2891	16.4	- 6 15	8.6	9.4	G5	2	..	19231b	97	2860	16.7	- 3 6	9.0	9.0	Ao	4	..	19392b
48	2872	16.4	-12 57	9.0	10.4	Ma	2	..	21395b	98	2661	16.7	- 4 6	8.4	9.5	K2	3	..	19392b
49	2831	16.4	-15 6	9.5	9.9	F5	1	..	18995b	99	2647	16.7	- 8 35	9.1	10.3	K5	1	..	19231b
50	2769	16.4	-15 49	8.4	8.4	Ao	4	..	13154b	100	2813	16.7	-10 42	9.7	10.5	G5	1	E	21395b

1919AnHar...94....1C

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2614	16.7	-11 25	9.2	10.2	Ko	2	..	21395b	51	2808	17.0	-10 0	7.96	8.24	Fo	6	0,6	19231b
2	5985	16.7	-33 13	9.1	9.3	F5	1	..	18927b	52	7170	17.0	-31 51	9.2	8.4	Bo	4	..	18927b
3	5587	16.7	-36 24	9.0	10.2	Ko	1	..	18436b	53	5809	17.0	-34 56	7.49	7.5	F2	8	..	18436b
4	5416	16.7	-39 28	9.3	10.2	Ko	1	..	18436b	54	5136	17.0	-40 55	8.7	9.4	Ko	4	5,2	38418b
5	5004	16.7	-41 57	9.4	9.7	A2	4	..	38418b	55	5195	17.0	-42 24	7.9	8.3	F5	5	..	38418b
6	2188	16.7	-54 19	8.7	9.1	B9	2	..	39868b	56	5194	17.0	-42 39	8.5	9.1	K2	3	..	38418b
7	1035	16.7	-69 22	6.9	6.9	Ao	6	..	22988b	57	5191	17.0	-43 50	10.5	10.1	A2	2	..	38418b
8	612	16.8	+65 59	8.7	9.7	Ko	1	..	37517i	58	5391	17.0	-44 52	10.5	10.0	F2	1	..	38418b
9	1235	16.8	+59 46	9.26	10.26	Ko	1	..	38224i	59	4850	17.0	-47 8	7.5	7.8	B8	7	..	39931b
10	1667	16.8	+47 13	9.5	9.6	A2	1	..	38240i	60	4849	17.0	-47 47	10.0	10.1	G5	2	..	38415b
11	2079	16.8	+13 1	8.7	9.7	Ko	3	..	38283i	61	4325	17.0	-49 46	10.5	9.8	Ao	1	..	38415b
12	2026	16.8	+12 43	9.6	9.9	F2	2	..	38283i	62	2242	17.0	-52 41	8.7	8.7	A2	4	..	39868b
13	2649	16.8	- 8 14	9.2	9.7	F8	1	..	19231b	63	1238	17.0	-61 19	8.3	8.9	Go	4	..	40096b
14	2814	16.8	-10 48	9.7	10.0	Fo	3	E	21395b	64	1219	17.0	-62 18	8.2	8.2	Ao	4	..	38748b
15	2828	16.8	-17 19	9.2	9.7	F8	3	..	13154b	65	1101	17.0	-65 13	9.2	9.2	B9	5	..	21452b
16	5187	16.8	-43 29	9.6	9.0	B9	4	..	38418b	66	799	17.0	-72 36	7.9	8.0	A3	7	..	22988b
17	5186	16.8	-43 51	8.5	8.0	A2	7	..	38418b	67	732	17.1	+64 0	9.1	9.4	F2	4	..	37517i
18	1062	16.8	-67 45	9.1	10.3	K5	3	..	21452b	68	1712	17.1	+45 48	9.5	9.8	F	3	..	4904m
19	1936	16.9	+26 12	8.2	9.0	G5	3	..	37741i	69	1984	17.1	+34 21	8.2	9.0	G5	2	..	37345i
20	2031	16.9	+15 19	8.7	9.7	Ko	1	..	38283i	70	1852	17.1	+33 22	7.73	8.51	G5	4	..	37741i
21	2116	16.9	+ 7 7	8.5	8.9	F5	2	..	9462b	71	2504	17.1	+ 0 0	7.9	8.7	G5	3	..	37606i
22	2156	16.9	+ 6 33	8.9	8.9	Ao	3	..	9462b	72	2817	17.1	-10 41	9.9	10.2	Fo	2	E	21395b
23	2155	16.9	+ 6 1	7.9	8.4	F8	6	..	37606i	73	2877	17.1	-13 6	7.76	8.83	K2	5	..	21395b
24	2863	16.9	- 2 23	8.10	9.17	K2	4	..	19392b	74	7114	17.1	-25 32	4.93	7.3	Ma	..	5,R	28,203
25	2862	16.9	- 3 7	9.7	9.8	A2	4	..	19392b	75	6499	17.1	-27 25	10.9	9.6	G	1	..	24494b
26	2789	16.9	- 7 59	9.1	10.2	K2	1	..	19231b	76	5011	17.1	-41 8	10.0	10.6	Ko	1	..	38418b
27	2815	16.9	-10 25	9.0	10.0	Ko	2	E	21395b	77	5010	17.1	-41 37	10.4	10.3	A2	2	..	38418b
28	2829	16.9	-17 19	8.6	9.1	F8	6	..	13154b	78	5198	17.1	-43 5	10.9	10.6	Fo	2	..	38418b
29	2652	16.9	-18 31	8.7	9.9	K5	1	..	13154b	79	5193	17.1	-43 24	10.2	10.1	Ao	2	..	38418b
30	8288	16.9	-23 21	9.1	8.7	G5	3	..	18977b	80	4037	17.1	-50 22	8.9	8.9	F5	3	..	38415b
31	7976	16.9	-24 23	8.0	8.2	A5	7	..	18977b	81	2192	17.1	-54 49	8.5	9.1	Ko	2	..	39868b
32	5492	16.9	-38 18	10.0	10.0	B8	1	..	18436b	82	2105	17.1	-56 44	8.3	8.5	A3	5	..	38748b
33	5134	16.9	-40 38	10.4	10.0	Ao	1	..	39925b	83	1485	17.1	-59 3	8.7	9.7	Ko	3	..	38748b
34	5006	16.9	-41 45	9.6	10.0	B	1	R	38418b	84	1064	17.1	-68 1	9.6	9.7	A2	5	..	21452b
35	5192	16.9	-42 38	10.5	9.7	A3	3	..	38418b	85	1039	17.1	-69 38	10.4	10.4	Ao	2	..	21452b
36	5068	16.9	-45 9	10.5	9.3	Ao	3	..	38418b	86	574	17.1	-75 51	9.5	9.8	Fo	4	..	21453b
37	4613	16.9	-49 6	var.	var.	Md	..	R	M	87	1713	17.2	+45 7	9.3	9.7	F5	5	..	4904m
38	1063	16.9	-67 6	8.4	9.4	Ko	4	..	21452b	88	2176	17.2	+18 34	7.7	8.7	Ko	3	..	37607i
39	1037	16.9	-69 16	9.4	9.4	Ao	4	..	21452b	89	1956	17.2	+16 13	8.1	8.2	A2	5	..	37607i
40	494	16.9	-77 42	10.1	10.2	A2	2	..	21453b	90	2174	17.2	+ 4 48	8.21	8.21	Ao	5	..	37606i
41	428	16.9	-78 23	9.3	10.4	K2	3	..	21453b	91	2866	17.2	- 2 43	9.5	10.0	F8	3	..	19392b
42	561	17.0	+70 47	7.38	8.16	G5	6	..	37706i	92	2809	17.2	- 9 28	8.1	8.2	A2	4	..	18995b
43	1668	17.0	+47 8	9.8	10.1	F	2	..	4904m	93	6502	17.2	-27 22	8.1	9.3	K2	3	..	24494b
44	2027	17.0	+38 46	9.1	9.7	Go	2	..	37459i	94	7464	17.2	-30 23	7.93	8.2	A2	7	..	18927b
45	2026	17.0	+37 50	8.8	9.8	Ko	1	..	37459i	95	5594	17.2	-36 26	9.1	9.4	F5	3	..	18436b
46	2157	17.0	+ 6 44	8.4	9.0	Go	3	..	9462b	96	5495	17.2	-38 21	9.1	9.7	A5	2	..	18436b
47	2187	17.0	+ 1 55	8.9	10.0	K2	2	..	19340b	97	5425	17.2	-39 44	10.7	10.5	Ao	1	..	39925b
48	2246	17.0	- 1 19	9.4	10.5	K2	1	..	19392b	98	5396	17.2	-45 5	10.0	10.1	A3	2	..	38418b
49	2247	17.0	- 1 41	9.4	10.6	K5	1	..	19392b	99	4326	17.2	-49 29	8.4	8.7	Ko	3	..	39931b
50	2790	17.0	- 7 33	9.0	9.5	F8	4	..	19231b	100	2244	17.2	-52 7	8.5	8.9	A3	3	..	39868b

80900

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
I	1487	17.2	58 47	8.9	8.8	A2	4	..	38748b	51	579	17.6	74 28	5.45	5.45	Ao	..	0,9-	56,126
2	2237	17.3	+39 35	8.5	8.8	F2	2	..	37345i	52	147	17.6	-87 51	8.6	9.7	K2	3	0,2	22578b
3	2188	17.3	+ 2 18	8.4	9.2	G5	3	..	37606i	53	733	17.7	+64 23	6.46	7.53	K2	8	..	37517i
4	2190	17.3	+ 2 9	9.2	9.8	Go	4	..	19340b	54	1333	17.7	+55 8	8.9	9.9	Ko	3	..	38650i
5	2505	17.3	+ 0 15	9.9	10.4	F8	2	..	19340b	55	1715	17.7	+44 53	9.27	10.27	Ko	3	..	4904m
6	2781	17.3	- 6 8	9.9	10.2	Fo	1	..	19231b	56	2088	17.7	+25 36	6.46	7.24	G5	6	0,4	38046i
7	7120	17.3	-25 45	8.9	8.2	B8	7	..	24494b	57	2166	17.7	+ 5 1	9.9	10.0	A2	2	..	19340b
8	5992	17.3	-33 54	7.69	8.2	Ko	4	2,4	18436b	58	2195	17.7	+ 3 47	8.9	9.4	F8	5	0,2	19340b
9	5596	17.3	-36 20	9.4	10.2	Go	2	..	18436b	59	2870	17.7	- 3 5	9.5	10.5	Ko	1	..	19392b
10	4852	17.3	-47 8	9.2	9.8	Ko	1	..	39931b	60	2772	17.7	-22 10	9.0	9.6	G5	1	..	18977b
11	4044	17.3	-50 16	8.6	9.8	K2	1	..	38415b	61	2198	17.7	-54 56	9.4	9.4	A	1	..	39868b
12	431	17.3	-78 35	9.4	10.4	Ko	2	..	21453b	62	1353	17.7	-60 3	8.12	8.2	F5	5	..	38748b
13	312	17.3	-81 21	7.67	8.2	F5	6	..	20869b	63	1507	17.8	+51 21	8.7	9.7	Ko	1	..	38240i
14	1187	17.4	+60 26	8.1	8.7	Go	3	..	37705i	64	1497	17.8	+46 5	8.7	9.1	F5	6	0,2	4904m
15	1985	17.4	+33 55	7.8	7.8	B9	7	..	37741i	65	1909	17.8	+43 25	8.2	9.3	K2	4	0,1	4904m
16	2184	17.4	- 0 39	7.9	7.9	Ao	3	..	37606i	66	1989	17.8	+34 59	7.22	8.22	Ko	5	..	37345i
17	2782	17.4	- 5 37	7.10	7.16	A2	8	..	19231b	67	2077	17.8	+24 45	8.86	9.86	Ko	2	..	38646i
18	2878	17.4	-13 2	9.2	10.3	K2	1	..	21395b	68	2602	17.8	- 4 37	7.46	8.46	Ko	7	..	19231b
19	8296	17.4	-23 42	8.7	8.0	Ao	7	..	18977b	69	2879	17.8	-12 19	10.4	10.8	F5	1	..	21395b
20	5015	17.4	-41 27	10.0	9.7	F2	4	..	38418b	70	2835	17.8	-14 48	6.70	7.70	Ko	7	..	13154b
21	5014	17.4	-41 48	9.4	9.1	F5	3	..	38418b	71	2835	17.8	-17 27	6.82	7.16	F2	7	..	41239b
22	5398	17.4	-44 37	7.5	7.7	A2	7	..	39931b	72	2587	17.8	-22 54	8.8	9.9	F5	1	..	18977b
23	5076	17.4	-45 9	10.9	10.4	A	1	..	38418b	73	5690	17.8	-37 28	9.4	9.9	Ao	1	..	18436b
24	5075	17.4	-45 34	10.2	9.5	B9	3	..	39931b	74	5433	17.8	-39 31	9.6	10.0	Ko	1	..	39925b
25	5108	17.4	-46 50	10.5	9.8	A2	1	..	39931b	75	5143	17.8	-40 40	9.3	9.4	Ao	2	..	39925b
26	1488	17.4	-58 30	7.9	9.1	Ko	4	..	38748b	76	5407	17.8	-45 2	10.0	9.8	Ao	2	..	38418b
27	1065	17.4	-67 15	8.9	9.5	Go	2	..	40074b	77	4623	17.8	-48 7	10.5	10.0	Ao	2	..	38415b
28	286	17.4	-83 56	9.8	9.9	A3	3	..	22238b	78	4048	17.8	-50 22	11.5	10.1	Ao	1	..	38415b
29	369	17.5	+77 36	8.9	9.9	Ko	2	..	37714i	79	2323	17.8	-53 40	9.3	9.4	A2	1	..	39868b
30	377	17.5	+75 33	6.29	6.35	A2	10	..	37714i	80	1005	17.8	-67 0	7.7	8.9	K5	6	..	21452b
31	2249	17.5	- 2 8	9.12	10.12	Ko	3	..	19392b	81	432	17.8	-78 54	9.4	10.5	K2	4	..	21453b
32	7178	17.5	-28 18	8.1	8.9	Ko	4	..	24494b	82	1297	17.9	+53 49	8.1	9.2	K2	3	..	38650i
33	5430	17.5	-39 30	10.7	10.3	F2	1	..	39925b	83	1635	17.9	+50 43	7.06	7.84	G5	5	..	38240i
34	5203	17.5	-42 23	7.7	8.0	Ko	6	..	38418b	84	1952	17.9	+36 11	8.3	8.4	A3	2	..	37345i
35	5079	17.5	-45 35	8.5	8.3	F2	6	..	39931b	85	2177	17.9	+ 4 39	9.4	10.4	Ko	1	..	19340b
36	2248	17.5	-52 49	7.7	7.8	G5	6	..	39868b	86	2603	17.9	- 4 25	8.4	8.7	Fo	3	..	19231b
37	1066	17.5	-67 18	9.0	9.4	F5	4	..	21452b	87	2792	17.9	- 7 12	8.7	9.1	F5	4	..	19231b
38	711	17.6	+65 1	8.30	9.30	Ko	3	..	37517i	88	2880	17.9	-12 13	9.5	10.3	G5	2	..	21395b
39	1763	17.6	+48 23	9.3	10.1	G5	1	..	38240i	89	2837	17.9	-15 7	9.11	10.18	K2	1	..	13154b
40	2087	17.6	+22 38	9.7	9.8	A3	2	..	38646i	90	2764	17.9	-16 28	9.0	9.4	F5	2	..	13154b
41	2791	17.6	- 8 2	8.4	8.7	F2	6	..	19231b	91	2774	17.9	-22 5	8.2	9.0	K2	3	..	18977b
42	2821	17.6	-10 37	9.7	10.1	F5	2	E	21395b	92	6512	17.9	-27 23	10.6	10.4	A2	2	..	24494b
43	7992	17.6	-24 55	9.9	10.4	A3	1	..	13281b	93	5818	17.9	-34 37	8.4	9.4	K2	2	..	18436b
44	5600	17.6	-36 45	8.7	9.9	Ko	1	..	18436b	94	5021	17.9	-41 18	10.7	10.2	Go	2	..	38418b
45	5432	17.6	-39 16	7.6	9.1	K2	3	..	18436b	95	5197	17.9	-43 39	10.2	10.5	Ko	1	..	38418b
46	4330	17.6	-49 10	8.8	8.7	A3	3	..	39931b	96	5117	17.9	-46 20	9.6	9.8	F8	1	..	39931b
47	4333	17.6	-49 52	10.5	10.3	Ko	1	..	38415b	97	5118	17.9	-46 47	8.9	9.2	Ko	3	..	39931b
48	2099	17.6	-56 3	8.2	9.1	K2	3	0,2	38748b	98	4866	17.9	-47 13	8.6	8.4	B8	3	..	39931b
49	1391	17.6	-60 7	9.12	9.7	K5	1	..	38748b	99	2102	17.9	-55 23	8.1	8.2	Ao	4	..	39868b
50	580	17.6	-74 18	6.02	6.02	Ao	..	0,7	56,126	100	1993	17.9	-57 50	8.9	9.2	Ao	3	..	38748b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1354	17.9	-59 28	9.1	10.3	K5	1	..	38748b	51	4056	18.2	-50 39	9.8	9.5	Ao	1	..	39868b
2	1067	17.9	-67 23	8.9	9.2	F2	5	..	21452b	52	3727	18.2	-51 34	9.0	9.3	K5	2	..	39868b
3	78	18.0	+87 18	8.27	8.69	F5	3	..	37546i	53	2254	18.2	-52 42	9.0	9.8	G5	1	..	39868b
4	2239	18.0	+39 10	9.2	9.8	G	1	..	37459i	54	2112	18.2	-56 50	8.1	9.4	K2	2	..	38748b
5	1953	18.0	+35 58	8.9	9.5	Go	1	..	37345i	55	921	18.2	-68 20	var.	var.	Md	3	R	21452b
6	1990	18.0	+35 11	8.6	9.4	G5	1	..	37345i	56	581	18.2	-76 46	9.4	9.8	F5	3	..	21453b
7	2793	18.0	-7 27	9.7	10.3	Go	1	..	19231b	57	1988	18.3	+34 47	7.97	8.97	Ko	3	..	37345i
8	2794	18.0	-7 38	9.5	10.7	K5	1	..	19231b	58	1938	18.3	+26 20	6.82	7.82	Ko	5	..	3774i
9	2816	18.0	-9 24	6.53	6.59	A2	8	..	18995b	59	2785	18.3	-5 30	9.2	9.6	F5	2	..	19231b
10	2822	18.0	-10 45	9.0	9.5	F8	4	..	21395b	60	2767	18.3	-17 4	8.6	9.8	K5	1	..	41239b
11	2837	18.0	-17 14	9.7	10.7	Ko	1	..	13154b	61	5152	18.3	-40 20	10.2	10.3	Ao	2	..	18436b
12	2879	18.0	-20 44	9.2	9.3	A3	2	..	18977b	62	4627	18.3	-48 16	10.5	10.4	A	1	R	38415b
13	2589	18.0	-22 35	8.6	9.9	F8	2	..	18977b	63	4343	18.3	-49 14	9.4	8.9	A5	3	..	39931b
14	7191	18.0	-31 22	8.9	8.5	Ao	6	..	18927b	64	1358	18.3	-59 14	10.5	10.5	A	1	..	38748b
15	5819	18.0	-34 56	9.64	10.5	K	1	..	18436b	65	1390	18.4	+52 11	9.3	9.4	A3	2	..	3824oi
16	5505	18.0	-39 0	8.7	9.4	F2	3	..	18436b	66	2315	18.4	+19 54	8.75	9.31	Go	3	..	37607i
17	5148	18.0	-40 21	9.0	9.1	Ao	4	..	18436b	67	2169	18.4	+5 39	6.81	6.87	A2	9	..	37606i
18	5212	18.0	-42 49	9.6	10.0	Ko	2	..	38418b	68	2180	18.4	+4 20	9.2	10.2	Ko	2	..	1934ob
19	5199	18.0	-43 21	10.2	10.1	Go	1	..	38418b	69	2196	18.4	+2 50	7.50	8.50	Ko	5	..	37606i
20	5411	18.0	-44 30	9.4	9.8	A2	2	..	39931b	70	2186	18.4	-0 41	8.9	9.4	F8	2	..	19392b
21	5089	18.0	-45 26	9.6	9.6	Fo	2	..	39931b	71	2798	18.4	-7 14	8.6	9.7	K2	3	..	19231b
22	2201	18.0	-54 13	8.0	8.8	Ko	3	..	39868b	72	2841	18.4	-17 32	9.9	10.2	F	1	..	13154b
23	1492	18.0	-58 27	8.5	10.0	K5	2	..	38748b	73	6322	18.4	-32 11	9.3	9.7	Ko	1	..	13047b
24	1355	18.0	-59 21	10.2	10.2	A	1	..	38748b	74	5514	18.4	-38 57	7.30	8.9	K2	4	..	18436b
25	1389	18.1	+52 1	6.37	6.93	Go	7	..	3824oi	75	5418	18.4	-44 37	10.5	10.4	Ao	1	..	38418b
26	1498	18.1	+46 37	9.0	9.8	G5	3	..	4904m	76	5094	18.4	-45 13	9.78	9.8	A2	2	..	38418b
27	1745	18.1	+28 21	8.1	8.5	F5	4	..	3774i	77	5123	18.4	-46 20	7.7	8.3	G5	6	..	39931b
28	2215	18.1	+8 9	7.25	8.60	Ma	5	5,4	9462b	78	2209	18.4	-54 58	8.26	9.2	K5	2	..	39868b
29	2178	18.1	+3 57	6.90	7.18	Fo	8	..	37606i	79	1393	18.4	-60 26	8.7	9.7	G5	2	..	38748b
30	2292	18.1	+1 20	9.9	9.9	Ao	3	..	1934ob	80	1394	18.4	-60 35	8.5	8.8	Ao	4	..	38748b
31	2621	18.1	-11 17	8.6	9.2	Go	4	..	21395b	81	1006	18.4	-66 41	8.9	9.7	G5	2	..	21452b
32	2835	18.1	-13 23	8.4	9.4	Ko	4	..	21395b	82	1671	18.5	+47 46	8.7	9.7	Ko	1	..	3824oi
33	2774	18.1	-16 7	9.2	9.7	F8	1	..	13154b	83	1716	18.5	+45 36	9.3	10.3	Ko	2	..	4904m
34	5023	18.1	-41 46	5.76	7.5	Ma	..	0,8	56,126	84	2089	18.5	+24 53	8.16	8.66	F8	4	..	38646i
35	5121	18.1	-46 53	7.6	7.7	A2	7	..	39931b	85	2181	18.5	+18 38	8.5	9.1	Go	1	..	37607i
36	4055	18.1	-50 58	8.3	8.6	A2	3	0,3	39868b	86	2197	18.5	+3 11	8.9	9.5	Go	4	..	1934ob
37	1356	18.1	-59 57	8.56	10.2	K5	2	..	38748b	87	2827	18.5	-11 4	9.9	10.5	Go	2	..	21395b
38	1241	18.1	-61 34	7.0	7.6	B5	..	3,8	28,203	88	2882	18.5	-20 34	8.8	9.3	G5	3	..	41239b
39	1978	18.2	+37 2	6.45	6.59	A5	7	..	37345i	89	2780	18.5	-21 30	8.8	9.9	Ma	1	..	18977b
40	2314	18.2	+20 48	7.77	8.33	Go	5	..	37607i	90	7392	18.5	-29 26	9.5	9.3	Ao	2	..	13281b
41	2168	18.2	+5 0	9.4	10.4	Ko	1	..	1934ob	91	7391	18.5	-30 5	7.81	8.1	A3	4	..	18927b
42	2795	18.2	-7 17	8.2	9.2	Ko	5	..	19231b	92	5442	18.5	-39 13	8.7	10.0	Ko	2	..	18436b
43	2840	18.2	-15 4	8.11	8.61	F8	4	..	13154b	93	5033	18.5	-41 21	9.0	10.0	Ko	1	..	38418b
44	7195	18.2	-31 44	9.7	9.3	Ko	1	..	18927b	94	5034	18.5	-41 51	9.4	10.3	F5	2	..	38418b
45	6008	18.2	-33 34	7.70	8.4	K2	4	0,3	18436b	95	5216	18.5	-43 1	9.4	10.3	K5	2	..	38418b
46	5822	18.2	-34 32	7.6	8.7	Ko	4	..	18436b	96	4871	18.5	-47 52	10.9	10.4	Fo	1	..	38415b
47	5622	18.2	-36 2	9.3	10.1	Ao	2	..	18436b	97	4628	18.5	-48 49	9.1	9.8	K2	1	..	39931b
48	5510	18.2	-38 32	10.4	10.3	A	1	..	18436b	98	2210	18.5	-54 16	9.0	9.4	B9	3	..	39868b
49	5204	18.2	-43 45	10.9	10.4	F5	1	..	38418b	99	1494	18.5	-58 15	8.4	10.6	Mb	2	..	38748b
50	4341	18.2	-49 18	8.3	8.4	G5	4	..	39931b	100	1495	18.5	-59 1	9.4	10.6	K5	1	..	38748b

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1919AnHar...94...1C

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1242	18.5 ^{m.} -61 58	4.86	6.6	Ko	..	0,9 R	28,203	51	7195	18.8 ^o -28 11	8.5	9.3	F2	4	..	24494b		
2	396	18.5 -79 6	9.4	10.4	Ko	4	..	21453b	52	7194	18.8 -28 51	8.2	9.6	Ko	3	..	13281b		
3	289	18.5 -83 19	7.81	8.9	K5	4	..	22238b	53	5828	18.8 -34 26	8.0	8.2	Ao	7	..	18436b		
4	1299	18.6 +54 28	7.36	7.42	A2	7	..	37705i	54	5133	18.8 -46 25	9.4	8.9	B9	4	..	39931b		
5	1500	18.6 +46 33	9.0	10.0	Ko	3	..	4904m	55	5132	18.8 -47 2	9.2	9.3	Fo	3	..	39931b		
6	1910	18.6 +43 9	9.3	9.7	F5	3	..	4904m	56	4634	18.8 -48 12	10.0	10.1	Fo	2	..	38415b		
7	2080	18.6 +24 1	7.26	8.26	Ko	5	..	38646i	57	2213	18.8 -55 5	5.66	6.0	A2	..	0,8	28,203		
8	2087	18.6 +12 49	8.7	9.5	G5	2	..	38283i	58	1497	18.8 -58 25	9.6	9.7	A2	1	..	38748b		
9	2886	18.6 -20 36	7.13	8.7	Ma	5	..	41239b	59	1244	18.8 -61 31	8.9	9.2	Ao	3	..	40096b		
10	6993	18.6 -26 45	8.2	8.6	G5	5	..	24494b	60	1068	18.8 -67 56	9.2	10.0	G5	3	..	21452b		
11	5701	18.6 -38 2	8.4	9.6	Ko	2	..	18436b	61	735	18.9 +64 47	8.25	8.31	A2	4	..	37517i		
12	5517	18.6 -38 53	7.8	8.8	Ko	4	..	18436b	62	1750	18.9 +27 7	8.5	8.6	A2	2	..	37741i		
13	5445	18.6 -39 21	10.4	9.4	Ao	2	..	18436b	63	2182	18.9 +18 35	7.12	7.68	Go	6	2,6 R	38283i		
14	5220	18.6 -42 43	10.5	9.7	A2	3	..	38418b	64	2181	18.9 + 4 43	8.75	9.53	G5	1	..	37606i		
15	5095	18.6 -45 41	10.0	9.6	Ao	2	..	39931b	65	2293	18.9 + 1 1	8.9	10.1	K5	1	..	19340b		
16	5128	18.6 -46 42	10.2	9.6	A5	2	..	39931b	66	2608	18.9 - 4 55	7.75	8.82	K2	5	..	19231b		
17	4348	18.6 -49 36	10.2	9.6	Go	2	..	38415b	67	2782	18.9 -21 23	8.0	7.7	Ao	8	..	18977b		
18	2334	18.6 -53 36	8.7	9.7	K	1	..	39868b	68	7143	18.9 -25 44	8.9	9.6	K2	3	..	24494b		
19	..	18.6 -57 53	Neb.	Neb.	Pd	2	R	76,22	69	7196	18.9 -28 24	4.90	6.6	Ko	..	R	56,86		
20	1102	18.6 -65 49	9.2	10.2	Ko	3	..	21452b	70	5642	18.9 -35 38	9.3	9.9	Ao	2	..	18436b		
21	1042	18.6 -69 36	10.0	10.0	Ao	3	..	21452b	71	5164	18.9 -40 19	8.7	9.4	G5	3	..	18436b		
22	582	18.6 -76 21	9.3	9.6	Fo	4	..	21453b	72	5134	18.9 -46 24	8.9	8.3	B9	6	..	39931b		
23	2029	18.7 +10 59	8.3	9.4	K2	2	..	38283i	73	4636	18.9 -48 38	10.2	10.4	Ko	1	..	38415b		
24	2165	18.7 + 6 10	8.9	8.9	Ao	3	..	9462b	74	2218	18.9 -54 7	8.4	8.9	G5	4	..	39868b		
25	2195	18.7 + 1 52	7.7	8.0	Fo	6	..	37606i	75	1402	18.9 -60 24	7.36	7.4	Ao	7	..	38748b		
26	2828	18.7 -10 23	8.6	9.4	G5	5	..	21395b	76	1246	18.9 -61 36	9.3	9.7	F5	1	..	40096b		
27	2623	18.7 -11 15	9.1	9.1	Ao	4	..	21395b	77	1043	18.9 -69 13	10.0	10.3	Fo	3	..	21452b		
28	2660	18.7 -18 59	8.6	9.0	F5	2	..	13154b	78	878	18.9 -70 34	7.2	7.5	F2	5	..	22988b		
29	6995	18.7 -26 51	9.2	11.3	Ao	3	..	24494b	79	588	18.9 -73 25	8.9	9.0	A2	2	..	22988b		
30	7192	18.7 -28 17	8.9	9.2	F2	3	..	24494b	80	1301	19.0 +54 10	9.0	10.0	Ko	3	..	38650i		
31	7193	18.7 -28 34	8.9	10.1	K2	2	..	24494b	81	1911	19.0 +43 34	10.3	11.3	K	1	..	4904m		
32	7487	18.7 -30 32	8.7	9.7	Ko	1	..	13281b	82	2667	19.0 - 4 6	8.8	9.9	K2	2	..	19392b		
33	5827	18.7 -35 5	7.16	7.8	F8	7	..	18436b	83	2609	19.0 - 5 2	7.25	8.43	K5	7	..	19231b		
34	5446	18.7 -39 21	6.50	7.6	Ko	7	..	18436b	84	2610	19.0 - 5 6	8.55	9.05	F8	3	..	19231b		
35	5215	18.7 -43 40	8.4	7.7	Ao	3	0,7	35949b	85	7200	19.0 -28 12	9.7	10.1	F5	2	..	13281b		
36	5099	18.7 -45 37	6.00	7.6	G5	9	5,7	39931b	86	7199	19.0 -28 40	8.2	10.1	K5	1	..	13281b		
37	2262	18.7 -52 8	7.4	9.2	Ma	3	..	39868b	87	7401	19.0 -30 3	8.60	8.5	F2	4	..	13281b		
38	2115	18.7 -56 28	7.2	8.0	Ko	6	0,4	38748b	88	2219	19.0 -54 35	2.63	2.46	B3	..	R	28,203		
39	1398	18.7 -60 8	8.26	8.6	Ao	5	..	38748b	89	499	19.0 -77 13	9.3	9.8	F8	3	..	21453b		
40	..	18.7 -65 27	..	..	Ao	2	..	21452b	90	464	19.1 +73 25	9.8	9.8	A	2	..	37714i
41	1103	18.7 -66 4	7.5	7.5	B9	8	..	21452b	91	1981	19.1 +37 41	8.7	9.3	Go	3	..	37345i		
42	1007	18.7 -66 56	9.5	9.5	Ao	3	..	21452b	92	2318	19.1 +20 14	6.67	7.45	G5	6	..	37607i		
43	802	18.7 -72 53	7.5	7.5	Ao	8	..	22988b	93	2183	19.1 +18 8	7.17	8.24	K2	4	0,3	37607i		
44	1717	18.8 +45 3	7.82	8.82	Ko	7	0,1	4904m	94	2187	19.1 - 0 57	9.6	10.4	G5	1	..	19392b		
45	1861	18.8 +44 27	8.02	9.02	Ko	6	0,4	4904m	95	2611	19.1 - 4 52	8.6	9.6	Ko	3	..	19231b		
46	1939	18.8 +26 37	4.61	5.61	Ko	..	R	56,86	96	2624	19.1 -11 22	9.5	10.6	K2	1	..	21395b		
47	2778	18.8 -15 22	8.2	9.3	K2	4	..	13154b	97	2842	19.1 -14 40	9.2	9.3	A2	3	..	13154b		
48	2770	18.8 -16 14	7.28	7.26	B9	7	..	41239b	98	2843	19.1 -17 19	8.8	8.9	A2	2	..	41239b		
49	2781	18.8 -21 48	8.6	9.3	Ko	2	..	18977b	99	5452	19.1 -39 31	9.0	9.4	K2	3	..	18436b		
50	6526	18.8 -27 32	8.9	9.5	Ao	4	..	24494b	100	4875	19.1 -47 19	8.8	10.0	K5	1	..	39931b		

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4637	19.1	^{m.} -48 59	8.6	8.6	A5	5	..	39931b	51	2788	19.4	^o - 5 40	8.7	9.8	K2	3	..	19231b
2	4352	19.1	-49 48	7.90	8.0	B9	5	..	39931b	52	2625	19.4	-11 50	10.9	11.5	Go	1	..	21395b
3	2002	19.1	-57 54	9.0	9.2	A2	3	..	38748b	53	8028	19.4	-24 12	8.7	10.1	Ko	1	..	13323b
4	1249	19.1	-61 19	9.4	9.4	B9	2	..	40096b	54	6340	19.4	-32 46	6.75	7.3	Ao	8	..	18927b
5	1223	19.1	-62 35	9.2	9.2	Ao	3	..	40096b	55	5717	19.4	-37 54	8.7	9.6	Ko	1	..	18436b
6	1070	19.1	-67 56	7.9	8.9	Ko	7	..	21452b	56	5045	19.4	-41 51	10.9	10.3	Ao	2	..	38418b
7	1838	19.2	+49 23	9.5	9.6	A2	2	..	38240i	57	5429	19.4	-44 8	10.2	10.4	G5	1	..	38418b
8	1672	19.2	+46 57	10.0	10.6	Go	1	..	4904m	58	5140	19.4	-46 53	8.3	8.3	Fo	6	..	39931b
9	1864	19.2	+29 59	8.81	8.79	B9	4	..	37741i	59	4882	19.4	-47 14	8.3	8.1	F5	5	..	39931b
10	2091	19.2	+25 41	8.1	8.2	A2	2	..	37741i	60	4354	19.4	-49 22	10.0	9.5	F5	1	..	39931b
11	2175	19.2	+ 9 49	8.72	9.72	Ko	1	..	38283i	61	2273	19.4	-53 0	8.5	8.6	Ao	4	..	39868b
12	2169	19.2	+ 6 47	6.81	7.23	F5	7	..	37606i	62	1404	19.4	-60 29	8.6	8.8	A3	3	..	38748b
13	2171	19.2	+ 5 12	8.0	8.1	A2	7	..	37606i	63	147	19.5	+85 32	8.7	9.9	K5	2	..	37546i
14	2612	19.2	- 4 36	9.0	10.0	Ko	2	..	19392b	64	1995	19.5	+35 35	7.9	8.3	F5	5	..	37345i
15	2832	19.2	-10 39	8.7	9.5	G5	4	..	21395b	65	1978	19.5	+30 56	7.77	8.55	G5	4	..	37741i
16	2779	19.2	-15 31	9.5	10.3	G5	1	..	13154b	66	2509	19.5	- 0 3	9.38	10.16	G5	3	..	19340b
17	2888	19.2	-20 20	9.18	9.9	Ao	1	..	41239b	67	2899	19.5	- 6 27	8.0	9.1	K2	5	..	19231b
18	7203	19.2	-28 38	8.9	10.1	Ko	2	..	13281b	68	2666	19.5	- 8 59	9.0	9.6	Go	1	..	19231b
19	5042	19.2	-41 50	10.4	10.3	A2	2	..	38418b	69	2887	19.5	-12 25	8.6	9.6	Ko	2	..	21395b
20	3744	19.2	-51 42	9.1	8.6	Ao	5	..	39868b	70	2780	19.5	-15 35	9.1	9.7	Go	3	..	13154b
21	2345	19.2	-54 2	8.2	8.8	Go	4	..	39868b	71	2775	19.5	-17 3	9.5	10.6	K2	1	..	41239b
22	2118	19.2	-55 32	var.	var.	G5	4	R	39868b	72	5625	19.5	-36 56	10.0	9.9	Go	1	..	18436b
23	1071	19.2	-67 42	8.4	9.2	G5	4	..	21452b	73	5719	19.5	-37 42	9.1	9.4	Ao	3	..	18436b
24	1045	19.2	-69 32	9.2	10.4	K5	2	..	21452b	74	5455	19.5	-39 56	8.7	8.5	Ao	5	..	18436b
25	2203	19.3	+40 7	8.1	8.9	G5	2	..	37459i	75	5235	19.5	-42 28	10.9	10.9	K2	1	..	38418b
26	1982	19.3	+36 55	8.6	9.7	K2	1	..	37345i	76	5430	19.5	-44 32	7.8	8.3	Ao	6	0,3	39931b
27	2092	19.3	+23 13	8.1	9.1	Ko	3	..	38640i	77	4647	19.5	-48 17	10.0	9.8	A5	1	..	38415b
28	2033	19.3	+11 23	8.3	8.7	F5	3	..	38283i	78	3747	19.5	-51 42	8.9	9.2	K2	3	..	39868b
29	2508	19.3	+ 0 37	8.9	10.0	K2	2	..	19340b	79	2123	19.5	-55 48	8.6	9.1	A2	2	..	39868b
30	8331	19.3	-23 13	7.6	8.0	F2	6	..	18977b	80	1224	19.5	-62 38	8.2	9.2	Ko	3	..	40096b
31	6535	19.3	-27 54	9.5	9.6	Ao	3	..	24404b	81	1024	19.5	-64 12	8.7	9.1	F5	3	..	21452b
32	7411	19.3	-29 44	9.2	10.5	Ko	1	..	13281b	82	370	19.6	+77 30	8.7	9.0	F2	5	..	37714i
33	5526	19.3	-38 18	10.2	10.0	Ao	2	..	18436b	83	1502	19.6	+46 45	10.0	11.1	K2	1	..	4904m
34	5231	19.3	-42 38	10.0	10.3	Go	1	..	38418b	84	1899	19.6	+29 19	8.9	9.4	F8	2	..	37741i
35	4880	19.3	-47 20	10.2	10.1	Ao	1	..	39931b	85	2035	19.6	+10 51	8.4	8.5	A2	3	..	38283i
36	4881	19.3	-47 53	10.9	10.7	F8	1	..	38415b	86	2782	19.6	-15 55	9.0	10.1	K2	2	..	13154b
37	4642	19.3	-48 50	9.0	8.6	Ao	5	..	39931b	87	5652	19.6	-35 22	9.3	9.6	Ao	2	..	18436b
38	2347	19.3	-53 18	8.2	8.2	F5	5	..	39868b	88	5527	19.6	-38 9	8.5	8.8	F5	4	..	18436b
39	1252	19.3	-61 37	9.9	9.9	A	2	..	40096b	89	5225	19.6	-43 10	8.6	8.4	A2	5	..	38418b
40	1118	19.3	-64 5	9.2	10.2	Ko	2	..	21452b	90	4649	19.6	-48 37	8.8	8.7	Fo	5	..	39931b
41	..	19.3	-65 47	..	..	K2	2	..	21452b	91	2277	19.6	-52 15	9.3	9.3	Ao	2	..	39868b
42	589	19.3	-73 29	9.6	9.6	Ao	3	..	21453b	92	1502	19.6	-58 9	9.6	9.6	Ao	2	..	38748b
43	318	19.3	-81 48	8.7	8.7	Ao	4	..	20869b	93	1501	19.6	-58 18	8.1	8.5	B8	6	..	38748b
44	1638	19.4	+50 3	9.5	10.1	G	1	..	38240i	94	1119	19.6	-63 12	9.1	9.2	A2	2	..	40096b
45	2243	19.4	+39 47	8.67	9.67	Ko	1	..	37459i	95	926	19.6	-68 59	8.9	9.7	G5	4	..	21452b
46	2030	19.4	+38 20	7.9	8.3	F5	3	..	37345i	96	465	19.7	+73 1	8.9	9.0	A3	2	..	37714i
47	2093	19.4	+25 11	8.5	9.0	F8	2	..	38646i	97	1770	19.7	+48 7	8.6	9.6	Ko	2	..	38240i
48	2209	19.4	+19 11	8.9	9.3	F5	2	..	37607i	98	1996	19.7	+35 42	8.2	8.6	F5	3	..	37345i
49	1991	19.4	+ 9 58	8.47	8.75	Fo	3	5,2	38283i	99	1859	19.7	+33 12	7.9	8.7	G5	5	..	37741i
50	2178	19.4	+ 8 54	8.9	9.3	F5	2	..	9462b	100	2094	19.7	+23 2	9.2	10.0	G5	1	..	38646i

THE HENRY DRAPER CATALOGUE.

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2043	19.7	+15 16	9.4	10.4	Ko	1	..	38283i	51	2279	19.9	-52 27	7.9	8.0	F2	7	..	39868b
2	2197	19.7	+ 1 57	8.1	8.6	F8	3	..	37606i	52	2355	19.9	-53 11	8.4	9.2	Ko	2	..	39868b
3	2294	19.7	+ 1 27	8.9	9.7	G5	3	..	19340b	53	2356	19.9	-53 23	7.1	7.9	G5	6	..	39868b
4	2789	19.7	- 5 33	9.1	9.6	F8	3	..	19231b	54	2126	19.9	-55 18	9.4	9.4	B9	1	..	39868b
5	2627	19.7	-11 40	9.9	11.0	K2	1	..	21395b	55	1009	19.9	-66 43	9.1	10.2	K2	2	..	21452b
6	2846	19.7	-18 1	9.0	10.0	Ko	1	..	13154b	56	563	20.0	+69 49	9.04	9.04	A	2	..	37706i
7	5839	19.7	-34 49	6.64	6.8	Ao	9	..	18436b	57	1190	20.0	+58 35	7.9	7.9	B8	5	..	37705i
8	5631	19.7	-36 14	8.0	9.9	K2	2	..	18436b	58	1673	20.0	+46 52	9.3	9.4	A3	3	..	4904m
9	5721	19.7	-37 19	6.48	6.8	A2	7	3,9	9427b	59	1941	20.0	+26 39	8.8	9.9	K2	2	..	38646i
10	5460	19.7	-39 24	10.9	10.3	A	1	..	18436b	60	2095	20.0	+23 4	9.1	9.2	A3	3	..	38646i
11	5458	19.7	-40 3	9.34	10.3	K2	1	..	39925b	61	2078	20.0	+17 1	6.27	7.27	Ko	7	0,8	37607i
12	5240	19.7	-42 52	9.8	10.3	Ko	1	..	38418b	62	2510	20.0	+ 0 17	9.0	9.5	F8	4	..	19340b
13	5229	19.7	-43 28	9.1	9.3	G5	2	..	38418b	63	2511	20.0	+ 0 1	9.0	10.1	K2	3	..	19340b
14	3753	19.7	-51 28	9.1	9.0	B8	5	..	39868b	64	2668	20.0	-19 9	9.2	9.4	Fo	3	..	13154b
15	2004	19.7	-57 40	8.6	9.8	K5	2	..	38748b	65	2599	20.0	-22 17	9.0	9.6	Ko	2	..	18997b
16	1368	19.7	-60 2	9.36	9.9	Ko	2	..	38748b	66	8040	20.0	-24 59	9.15	9.3	G5	1	..	13323b
17	1025	19.7	-65 6	10.1	10.2	A2	2	..	21452b	67	7424	20.0	-29 59	9.55	8.8	Ao	3	..	13281b
18	1104	19.7	-65 16	9.6	9.7	A2	3	..	21452b	68	5173	20.0	-40 37	10.2	9.7	Ao	1	..	39925b
19	1008	19.7	-66 38	9.2	10.2	Ko	1	..	21452b	69	5146	20.0	-46 28	6.59	6.4	B9	6	1,10	46200b
20	927	19.7	-68 52	7.6	7.6	Ao	4	..	22988b	70	2281	20.0	-52 19	8.9	8.6	Bo	4	..	39868b
21	502	19.7	-78 0	8.1	8.4	Fo	8	..	21453b	71	1507	20.0	-58 8	8.4	8.7	B9	5	..	38748b
22	1718	19.8	+45 32	9.3	9.8	F8	3	..	4904m	72	592	20.0	-73 10	7.1	7.1	Ao	3	..	24452b
23	1719	19.8	+45 1	8.7	9.7	Ko	3	..	4904m	73	2173	20.1	+ 6 41	7.52	8.52	Ko	3	0,3	9462b
24	1992	19.8	+ 9 55	8.42	9.42	Ko	2	0,1	38283i	74	2189	20.1	- 0 39	9.4	10.2	G5	1	..	19392b
25	2184	19.8	+ 4 27	8.5	9.3	G5	1	..	37606i	75	2825	20.1	- 9 56	8.8	9.2	F5	4	..	21395b
26	2803	19.8	- 7 45	9.0	9.1	A2	3	..	22976b	76	2834	20.1	-10 30	7.71	7.71	Ao	8	..	21395b
27	2703	19.8	-19 42	9.1	10.2	K2	2	..	13154b	77	2787	20.1	-15 12	7.51	8.51	Ko	7	..	13154b
28	5724	19.8	-37 46	8.7	10.5	K5	1	..	18436b	78	7219	20.1	-28 45	7.65	8.7	K5	5	..	13281b
29	5169	19.8	-41 0	10.0	10.0	A2	2	..	38418b	79	5174	20.1	-40 41	9.0	9.4	G5	2	..	39925b
30	5050	19.8	-41 9	8.8	8.9	A2	3	..	38418b	80	2232	20.1	-54 38	8.7	9.4	G5	1	..	39868b
31	5051	19.8	-41 50	8.7	9.1	A2	5	..	38418b	81	1370	20.1	-59 50	9.1	10.1	K2	1	..	38748b
32	5239	19.8	-42 21	10.2	10.0	F8	3	..	38418b	82	616	20.2	+66 1	8.8	9.8	Ko	1	..	37517i
33	5117	19.8	-45 50	9.2	9.0	A2	2	..	39931b	83	1640	20.2	+50 9	8.1	9.5	Ma	2	..	38240i
34	5144	19.8	-46 27	9.6	9.3	F5	2	..	39931b	84	1863	20.2	+44 36	9.3	9.7	F5	2	..	4904m
35	4087	19.8	-50 8	9.04	8.9	Ao	3	0,2	39931b	85	1913	20.2	+43 27	8.8	9.8	Ko	3	..	4904m
36	2125	19.8	-55 13	9.46	9.4	Ao	1	..	39868b	86	1960	20.2	+36 9	8.7	9.7	Ko	1	..	37345i
37	1256	19.8	-61 22	9.0	9.0	Ao	2	..	38748b	87	1900	20.2	+29 6	8.1	8.6	F8	4	..	37741i
38	1383	19.9	+56 39	8.7	9.7	Ko	2	..	38224i	88	2028	20.2	+20 49	8.8	9.6	G5	1	..	37607i
39	1504	19.9	+46 38	10.3	11.1	G5	1	..	4904m	89	2185	20.2	+ 4 43	7.80	7.80	Ao	6	..	37606i
40	2092	19.9	+14 38	9.2	10.4	K5	1	..	38283i	90	2190	20.2	- 0 25	7.9	8.0	A2	5	..	37606i
41	2188	19.9	- 0 47	9.4	10.4	Ko	1	..	19392b	91	2876	20.2	- 2 13	9.1	10.1	Ko	1	..	19392b
42	2672	19.9	- 3 51	6.88	7.30	F5	10	..	19392b	92	2628	20.2	-11 39	9.5	9.5	Ao	4	..	21395b
43	2614	19.9	- 4 38	9.2	9.7	F8	3	..	19392b	93	2888	20.2	-12 51	9.2	10.3	K2	1	..	21395b
44	2790	19.9	- 5 34	8.5	9.9	Ma	3	..	19231b	94	2847	20.2	-17 39	8.0	9.0	Ko	4	..	41239b
45	2598	19.9	-22 29	8.8	9.3	K5	2	..	13323b	95	6554	20.2	-27 34	8.0	8.6	A3	6	..	24494b
46	6343	19.9	-32 25	9.0	9.3	K2	1	..	13047b	96	7223	20.2	-28 38	8.2	9.2	K2	3	..	13281b
47	4890	19.9	-47 51	6.64	7.0	B5	..	3,7-	28,203	97	6039	20.2	-33 14	8.2	8.4	F5	3	0,3	18436b
48	4656	19.9	-48 41	9.4	9.2	A3	3	..	39931b	98	5175	20.2	-40 39	8.4	9.1	Go	2	..	39925b
49	4361	19.9	-49 10	9.8	9.3	Ao	3	0,2	38415b	99	5058	20.2	-41 26	9.4	10.3	Ko	1	..	38418b
50	3757	19.9	-51 22	8.5	8.4	B5	7	..	39868b	100	5244	20.2	-42 42	10.9	10.6	A2	1	..	38418b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5151	20.2	-46 37	8.5	8.0	Ao	6	..	39931b	51	2296	20.5	-52 50	8.3	8.3	F5	4	..	39868b
2	4894	20.2	-47 42	10.0	10.0	Ao	1	..	39931b	52	2239	20.5	-54 27	9.7	9.7	Ao	2	..	39868b
3	2235	20.2	-54 36	9.4	9.4	B8	1	..	39868b	53	1262	20.5	-61 49	8.6	9.9	G5	2	..	40096b
4	1409	20.2	-60 39	8.5	9.1	F5	3	..	38748b	54	..	20.5	-65 46	..	..	Ko	1	..	21452b
5	1773	20.3	+48 13	7.56	7.62	A2	5	R	38240i	55	1105	20.5	-65 59	9.4	10.2	G5	1	..	21452b
6	2036	20.3	+11 1	8.7	9.0	F2	2	..	38283i	56	438	20.5	-78 42	9.1	9.1	Ao	8	..	21453b
7	2669	20.3	- 8 40	9.1	9.6	F8	1	..	19231b	57	736	20.6	+64 49	8.35	8.85	F8	3	..	37517i
8	2889	20.3	-12 31	9.5	10.3	G5	1	..	21395b	58	1641	20.6	+49 53	9.42	9.92	F8	1	..	38240i
9	2778	20.3	-16 47	7.30	7.64	F2	7	..	41239b	59	1720	20.6	+45 14	9.3	9.6	F2	1	..	4904m
10	8347	20.3	-23 23	7.6	8.5	K2	3	..	18977b	60	1864	20.6	+44 2	9.5	10.5	Ko	1	..	4904m
11	5541	20.3	-38 59	6.18	6.7	A2	6	0,10	35949b	61	1984	20.6	+31 38	8.6	9.4	G5	2	..	37741i
12	5469	20.3	-39 20	9.4	9.7	Ao	2	..	18436b	62	2181	20.6	+ 9 14	8.1	8.1	Ao	3	..	38283i
13	5471	20.3	-40 5	9.04	10.0	Ko	1	..	39925b	63	2198	20.6	+ 2 22	8.9	8.9	Ao	3	..	19340b
14	5445	20.3	-45 2	9.64	9.3	Ao	2	..	39931b	64	2795	20.6	- 5 26	8.2	8.6	F5	7	..	19231b
15	1047	20.3	-69 36	9.0	10.0	Ko	2	..	21452b	65	2846	20.6	-14 12	9.2	9.3	A2	1	..	13154b
16	1752	20.4	+28 29	10.0	10.1	A5	1	..	37741i	66	2790	20.6	-15 29	9.5	10.3	G5	2	..	13154b
17	1942	20.4	+26 1	8.7	9.2	F8	2	..	37741i	67	2779	20.6	-16 40	9.1	9.9	G5	1	..	13154b
18	2212	20.4	+19 20	8.3	8.3	Ao	2	..	37607i	68	5250	20.6	-43 27	8.4	8.0	Ao	6	0,3	38418b
19	2297	20.4	+ 1 25	9.9	10.9	Ko	2	..	19340b	69	5248	20.6	-43 44	10.9	10.9	Ao	2	..	38418b
20	2616	20.4	- 4 41	5.81	6.99	K5	..	5,8	56,126	70	5154	20.6	-46 17	10.0	9.8	A2	2	..	39931b
21	2794	20.4	- 5 58	7.8	7.9	A3	10	..	19231b	71	3767	20.6	-51 18	6.14	7.6	Fop	..	2,3 R	56,126
22	2826	20.4	- 9 24	8.8	9.8	Ko	3	..	21395b	72	2298	20.6	-52 58	8.9	8.9	Ao	3	..	39868b
23	2827	20.4	- 9 46	9.2	9.3	A2	3	..	21395b	73	1073	20.6	-67 37	9.3	9.9	G	1	..	21452b
24	2629	20.4	-12 2	9.9	10.5	Go	1	..	21395b	74	456	20.7	+72 46	7.9	8.2	Fo	4	..	37714i
25	6558	20.4	-27 16	9.5	10.0	F5	1	..	13281b	75	2515	20.7	+ 0 46	9.29	9.71	F5	3	..	19340b
26	7431	20.4	-29 51	9.7	9.7	F	1	..	13281b	76	2192	20.7	- 0 20	8.98	9.12	A5	5	..	19340b
27	5640	20.4	-36 39	10.2	10.5	Ao	1	..	18436b	77	2828	20.7	- 9 27	9.2	9.5	Fo	3	..	21395b
28	5543	20.4	-38 23	9.1	10.2	Ko	2	..	18436b	78	2848	20.7	-14 23	10.1	10.6	F8	1	..	13154b
29	5542	20.4	-38 40	9.3	9.1	Ao	4	..	18436b	79	2898	20.7	-20 21	8.58	9.0	A3	4	..	41239b
30	5248	20.4	-42 57	10.5	10.2	Ao	2	..	38418b	80	5742	20.7	-37 26	10.0	10.2	F8	1	..	18436b
31	5448	20.4	-44 34	9.6	9.8	A2	3	..	38418b	81	5741	20.7	-37 38	9.3	10.4	G5	1	..	18436b
32	4658	20.4	-48 26	var.	var.	Md	2	0,2 R	38415b	82	5181	20.7	-40 20	10.4	10.0	Ao	1	..	39925b
33	3764	20.4	-52 0	7.8	7.8	Fo	7	..	39868b	83	2132	20.7	-56 48	8.9	8.9	A5	3	..	38748b
34	2138	20.4	-55 25	9.1	9.2	A2	2	..	39868b	84	1010	20.7	-67 5	9.5	9.5	Ao	4	..	21452b
35	1372	20.4	-59 7	7.9	8.2	Ao	7	..	38748b	85	503	20.7	-77 13	7.5	8.3	G5	5	..	21453b
36	1232	20.4	-62 13	10.1	10.1	Ao	1	..	40096b	86	401	20.7	-79 18	9.3	9.4	A2	2	..	20869b
37	256	20.5	+83 22	7.12	7.54	F5	6	3,8	37465i	87	1072	20.8	+62 10	7.9	9.1	K5	2	..	37517i
38	520	20.5	+69 13	9.3	10.1	G5	1	..	37706i	88	1860	20.8	+32 31	8.6	8.9	Fo	4	..	37741i
39	1961	20.5	+41 28	7.72	8.79	K2	4	0,3	37459i	89	2187	20.8	+ 4 42	9.05	10.12	K2	3	..	19340b
40	1984	20.5	+36 55	6.90	7.32	F5	6	..	37345i	90	2202	20.8	+ 3 28	7.7	8.5	G5	5	..	37606i
41	2186	20.5	+ 4 7	10.6	10.9	F2	2	..	19340b	91	2299	20.8	+ 1 2	8.3	8.4	A5	4	0,8	37606i
42	2298	20.5	+ 1 31	9.2	9.7	F8	2	..	19340b	92	2835	20.8	-11 9	9.2	9.7	F8	3	..	21395b
43	2513	20.5	+ 0 7	10.6	10.9	Fo	3	..	19340b	93	2791	20.8	-15 39	8.6	8.9	Fo	5	..	41239b
44	2257	20.5	- 1 35	9.4	10.2	G5	1	..	19392b	94	2900	20.8	-20 40	8.6	9.9	G5	1	..	13323b
45	2877	20.5	- 2 59	8.2	9.2	Ko	3	..	19392b	95	5649	20.8	-36 48	9.4	10.5	Ko	1	..	18436b
46	2846	20.5	-13 30	9.7	10.9	K5	1	..	21395b	96	5644	20.8	-36 52	8.4	10.1	G5	2	..	18436b
47	2847	20.5	-13 36	9.1	9.6	F8	5	..	21395b	97	5743	20.8	-37 16	9.6	9.9	Fo	2	..	18436b
48	2788	20.5	-15 57	8.4	9.4	Ko	3	..	41239b	98	5183	20.8	-40 15	8.88	9.7	Ko	1	..	39925b
49	5642	20.5	-36 30	8.0	9.1	B9	6	..	18436b	99	5255	20.8	-42 50	9.6	9.4	Go	2	..	38418b
50	5153	20.5	-46 31	10.2	9.8	A3	2	..	39931b	100	2245	20.8	-54 24	8.6	8.8	B9	4	..	39868b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2244	20.8	m. 54 59	9.8	9.8	A	1	..	39868b	51	2607	21.2	o. -22 23	8.2	9.6	K5	1	..	13322b
2	1374	20.8	-59 52	6.34	8.7	Ko	7	..	38748b	52	7037	21.2	-27 1	8.1	11.0	Ma	1	..	13281b
3	929	20.8	-68 12	9.5	10.6	K2	1	..	21452b	53	7448	21.2	-30 6	9.2	9.7	F5	2	..	13281b
4	575	20.8	-75 17	7.3	7.3	B9	8	..	21453b	54	5667	21.2	-35 30	8.7	10.5	F8	3	..	18436b
5	1944	20.9	+26 48	8.6	9.4	G5	2	..	37741i	55	5668	21.2	-35 57	7.6	8.8	A3	5	..	18436b
6	2215	20.9	+19 30	7.55	7.63	A3	6	0,7	37607i	56	5553	21.2	-38 10	8.7	9.4	A2	4	..	18436b
7	2203	20.9	+ 3 8	9.2	10.2	Ko	2	..	19340b	57	2251	21.2	-54 47	10.1	10.1	A	1	..	39868b
8	2200	20.9	+ 2 47	9.6	10.4	G5	2	..	19340b	58	1029	21.2	-64 21	9.2	10.0	G5	2	..	21452b
9	2201	20.9	+ 2 8	8.3	9.4	K2	2	..	19340b	59	584	21.2	-74 50	8.0	9.5	G	3	..	21453b
10	2830	20.9	-10 4	8.61	8.89	Fo	5	..	21395b	60	1506	21.3	+46 12	8.1	9.1	Ko	5	0,2	4904m
11	2631	20.9	-11 20	9.9	10.9	Ko	2	..	21395b	61	1723	21.3	+45 22	9.1	9.2	A3	4	..	4904m
12	2891	20.9	-12 53	8.0	9.0	Ko	5	..	21395b	62	1867	21.3	+44 19	10.3	11.1	G5	1	..	4904m
13	2850	20.9	-14 14	9.1	10.5	Ma	..	..	M	63	2048	21.3	+15 23	8.1	8.7	Go	3	..	38283i
14	7180	20.9	-25 10	9.65	9.9	F8	2	..	13281b	64	2089	21.3	+12 56	9.4	10.4	Ko	1	..	38283i
15	5664	20.9	-35 28	7.59	8.4	A3	7	..	18436b	65	2220	21.3	+ 8 7	8.5	9.6	K2	2	..	9462b
16	5256	20.9	-42 35	9.6	10.3	Ko	1	..	38418b	66	2127	21.3	+ 6 58	7.9	8.3	F5	7	..	9462b
17	4666	20.9	-48 13	8.9	9.2	F5	2	..	39931b	67	2195	21.3	- 1 1	6.14	7.14	Ko	6	..	37606i
18	3771	20.9	-51 14	9.8	9.2	Ao	3	..	39868b	68	2855	21.3	-17 30	7.07	7.85	G5	6	..	41239b
19	1120	20.9	-63 14	9.7	9.7	A	1	..	40096b	69	2708	21.3	-19 56	9.2	9.6	Ao	2	..	41239b
20	885	20.9	-70 53	9.4	9.4	Ao	2	..	22988b	70	6571	21.3	-27 13	9.7	9.9	Fo	1	..	13281b
21	402	20.9	-80 0	8.7	8.8	A2	4	..	20869b	71	7251	21.3	-31 49	9.2	9.3	G5	1	..	13047b
22	..	21.0	+47 3	..	..	G	1	..	4904m	72	5654	21.3	-36 35	10.0	10.1	Go	1	..	18436b
23	1866	21.0	+44 13	9.6	10.4	G5	1	..	4904m	73	5070	21.3	-41 49	8.4	8.9	F5	6	..	38418b
24	2193	21.0	- 0 48	6.78	7.78	Ko	5	..	37606i	74	5263	21.3	-43 13	8.8	8.9	Ko	3	..	38418b
25	2632	21.0	-11 47	9.9	10.7	G5	1	..	21395b	75	5262	21.3	-43 32	7.0	7.8	Mb	4	0,6	35949b
26	2851	21.0	-14 6	8.6	9.4	G5	2	..	13154b	76	5460	21.3	-44 56	8.14	9.5	Mb	3	..	39931b
27	7181	21.0	-25 23	10.2	10.4	F8	1	..	13281b	77	3779	21.3	-51 26	9.8	9.5	A5	2	..	39868b
28	7033	21.0	-27 6	8.2	9.8	F8	2	..	13281b	78	1030	21.3	-64 36	9.1	9.7	Go	2	..	21452b
29	7238	21.0	-28 33	7.6	9.2	K2	4	..	13281b	79	1963	21.4	+41 38	7.42	7.76	F2	6	3,5	37459i
30	5855	21.0	-34 13	9.4	9.6	A2	2	..	18436b	80	2195	21.4	+18 28	8.5	9.3	G5	3	5,2	37608i
31	5185	21.0	-40 6	10.7	10.3	A	1	..	39925b	81	2049	21.4	+14 56	7.76	7.84	A3	5	0,5	38283i
32	4905	21.0	-47 10	10.0	10.1	Ao	1	..	39931b	82	2622	21.4	- 4 17	8.2	9.4	K5	2	..	19392b
33	4377	21.0	-49 22	9.8	9.6	G5	1	..	39931b	83	2903	21.4	-20 19	7.27	7.9	A3	7	..	41239b
34	2144	21.0	-55 20	8.3	8.3	B9	5	..	39868b	84	7250	21.4	-28 54	9.4	8.6	Fo	4	..	13281b
35	1121	21.0	-63 14	9.9	9.9	A	1	..	40096b	85	6054	21.4	-33 39	9.8	9.0	Ao	3	..	18436b
36	1028	21.0	-65 5	8.7	9.1	F5	2	..	40221b	86	5071	21.4	-41 30	10.4	10.3	Ao	2	..	38418b
37	1011	21.0	-66 41	10.1	10.2	A2	2	..	21452b	87	5073	21.4	-42 5	10.4	10.0	Ao	3	..	38418b
38	1915	21.1	+43 12	7.37	7.65	Fo	7	0,7-	38336i	88	4913	21.4	-48 3	8.4	8.7	A5	4	..	39931b
39	2011	21.1	+42 3	7.8	8.1	F2	4	6,3 R	37459i	89	2320	21.4	-52 34	9.0	8.6	A2	4	..	39868b
40	2084	21.1	+17 8	7.9	9.3	Ma	1	..	38283i	90	2319	21.4	-52 43	8.4	9.8	K5	1	..	39868b
41	2046	21.1	+15 34	9.2	9.8	G	1	..	38283i	91	2023	21.4	-57 58	9.5	9.5	Ao	4	..	38748b
42	8060	21.1	-24 54	6.91	7.3	B9	7	..	13323b	92	933	21.4	-68 18	9.0	10.0	A2	1	..	21452b
43	5748	21.1	-37 39	8.0	7.8	B9	7	..	18436b	93	934	21.4	-68 47	8.3	8.3	Ao	3	..	22988b
44	1411	21.1	-60 45	9.8	10.8	Ko	1	..	40096b	94	1903	21.5	+29 41	8.86	9.86	Ko	2	..	37741i
45	1106	21.1	-65 46	9.4	10.0	Go	3	..	21452b	95	2095	21.5	+14 44	7.06	8.13	K2	4	0,4	38283i
46	583	21.1	-74 52	8.1	8.7	Go	5	..	21453b	96	2197	21.5	- 0 30	8.3	9.3	Ko	4	..	19340b
47	399	21.2	+74 24	8.1	9.1	Ko	5	..	37714i	97	2807	21.5	- 7 11	9.0	10.0	Ko	1	..	22976b
48	2204	21.2	+ 2 57	8.1	8.5	F5	3	..	37606i	98	2806	21.5	- 8 10	8.8	9.2	F5	3	..	22976b
49	2300	21.2	+ 1 3	8.9	10.1	K5	2	..	19340b	99	2635	21.5	-12 6	8.6	9.6	Ko	5	..	21395b
50	2851	21.2	-14 45	9.2	9.3	A2	3	..	13154b	100	2892	21.5	-13 3	8.6	9.0	F5	6	..	21395b

81600

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2794	21.5	-21 41	8.8	9.6	Ao	3	..	13323b	51	4922	21.8	-47 50	8.5	8.9	B9	5	..	39931b
2	6381	21.5	-32 19	9.1	9.0	F8	1	..	13047b	52	4677	21.8	-48 10	10.0	9.6	Ao	2	..	39931b
3	6383	21.5	-32 44	7.71	8.8	K5	3	..	18927b	53	2262	21.8	-54 40	9.2	9.5	F2	2	..	39868b
4	6055	21.5	-33 53	7.5	8.7	Ko	6	..	18436b	54	1513	21.8	-58 15	8.0	8.1	B3	7	..	38748b
5	5657	21.5	-36 50	9.0	9.6	F2	4	..	18436b	55	1012	21.8	-66 35	9.4	10.2	G5	2	..	21452b
6	5491	21.5	-39 47	8.7	9.1	A5	3	..	18436b	56	1884	21.9	+31 55	8.7	9.3	Go	2	..	37741i
7	5193	21.5	-40 14	10.0	9.4	Ao	3	..	18436b	57	2202	21.9	+ 2 5	9.2	10.2	Ko	2	..	1934ob
8	5192	21.5	-40 29	8.5	8.8	Ao	5	..	18436b	58	2835	21.9	- 9 40	9.0	9.8	G5	3	..	21395b
9	5194	21.5	-40 56	8.5	9.7	Go	3	..	39945b	59	2855	21.9	-14 4	7.8	8.6	G5	8	..	21395b
10	5464	21.5	-45 3	8.94	9.8	Ko	2	..	39931b	60	2795	21.9	-15 46	9.9	10.5	G	2	..	13154b
11	2148	21.5	-55 22	8.8	8.9	A2	2	..	39868b	61	2794	21.9	-16 1	9.2	10.0	G5	2	..	41239b
12	1412	21.5	-60 44	8.5	9.0	A3	3	..	38748b	62	7459	21.9	-29 36	7.6	7.5	A2	9	..	13281b
13	1265	21.5	-61 13	5.97	7.4	G5	..	5,8	56,126	63	5673	21.9	-35 32	7.9	8.2	A5	6	..	18436b
14	1841	21.6	+49 20	8.1	9.1	Ko	3	..	3824oi	64	5198	21.9	-40 41	9.6	9.7	B9	2	..	39945b
15	2189	21.6	+ 4 45	9.06	9.84	G5	5	..	1934ob	65	5139	21.9	-45 24	9.4	9.3	A3	3	..	39931b
16	2302	21.6	+ 1 32	8.9	9.5	Go	4	..	1934ob	66	3790	21.9	-51 32	9.2	9.2	F8	2	..	39868b
17	2519	21.6	+ 0 5	9.6	10.0	F5	4	..	1934ob	67	3791	21.9	-51 59	9.0	8.6	A2	4	..	39868b
18	2636	21.6	-12 3	9.2	10.2	K	2	..	21395b	68	1013	21.9	-67 3	8.5	9.5	Ko	4	..	21452b
19	2710	21.6	-19 39	8.2	9.6	Ko	3	..	41239b	69	2099	22.0	+23 47	8.3	9.7	Ma	2	..	38646i
20	5658	21.6	-36 22	8.8	9.6	F8	3	..	18436b	70	2177	22.0	+ 6 41	6.71	7.13	F5	7	..	9462b
21	5169	21.6	-46 30	7.5	8.3	Ko	6	..	39931b	71	2203	22.0	+ 2 36	9.9	10.7	G5	1	..	1934ob
22	4917	21.6	-47 54	9.0	10.0	Ko	1	..	39931b	72	2912	22.0	- 7 5	9.2	10.2	Ko	1	..	22976b
23	4919	21.6	-48 6	9.4	9.3	A2	2	..	39931b	73	2796	22.0	-16 1	7.6	8.4	G5	6	..	41239b
24	4384	21.6	-49 51	8.0	8.9	Ko	3	0,3	39868b	74	2904	22.0	-20 18	8.38	9.3	Ko	3	..	41239b
25	585	21.6	-74 55	9.2	9.8	Go	2	..	21453b	75	2797	22.0	-21 29	8.7	9.0	Ao	3	..	13323b
26	1507	21.7	+46 23	9.3	9.8	F8	3	..	4904m	76	7053	22.0	-26 49	9.9	10.1	F2	2	..	13281b
27	2638	21.7	-11 34	10.4	10.7	F2	3	..	21395b	77	7463	22.0	-29 15	8.9	9.0	Ko	2	..	13281b
28	2893	21.7	-12 22	8.0	9.0	Ko	5	..	21395b	78	6066	22.0	-33 36	10.0	9.3	F5	2	..	18436b
29	2792	21.7	-15 35	9.5	10.6	K2	1	..	13154b	79	5662	22.0	-36 20	8.7	9.6	Ko	3	..	18436b
30	7551	21.7	-30 56	7.6	8.1	Ao	6	..	13047b	80	5140	22.0	-45 9	9.64	9.3	Ao	3	..	39931b
31	7261	21.7	-31 44	9.5	9.3	F5	2	..	13047b	81	3795	22.0	-51 12	10.0	9.2	B9	2	..	39868b
32	7262	21.7	-32 0	8.1	9.0	Ko	2	..	13047b	82	3793	22.0	-51 14	8.9	9.5	Ma	1	..	39868b
33	5755	21.7	-37 10	9.0	9.0	Ao	3	..	18436b	83	3794	22.0	-51 58	10.0	9.2	A2	1	..	39868b
34	5494	21.7	-39 53	7.32	8.2	K2	3	..	18436b	84	2268	22.0	-54 38	9.8	9.8	A	1	..	39868b
35	5266	21.7	-42 23	9.8	10.0	A2	2	..	38418b	85	1266	22.0	-61 24	9.1	9.1	Ao	2	..	40096b
36	4920	21.7	-47 37	10.5	9.3	Ko	2	..	39931b	86	1192	22.1	+60 17	8.6	9.2	Go	3	..	38224i
37	3787	21.7	-51 24	9.4	9.5	G5	1	..	39868b	87	1675	22.1	+47 4	10.0	10.8	G5	2	..	4904m
38	2330	21.7	-52 58	9.1	8.9	B8	3	..	39868b	88	1509	22.1	+46 2	5.56	6.34	G5	8	0,10	3824oi
39	594	21.7	-73 6	7.6	8.4	G5	3	..	22988b	89	2101	22.1	+23 25	8.1	9.1	Ko	2	..	38646i
40	577	21.7	-75 16	9.03	9.3	F5	4	..	21453b	90	2039	22.1	+11 19	8.3	9.3	Ko	2	..	38283i
41	2190	21.8	+ 3 57	8.7	9.8	K2	4	..	1934ob	91	2305	22.1	+ 1 44	8.7	9.7	Ko	3	..	1934ob
42	2207	21.8	+ 2 55	9.2	9.6	F5	2	..	1934ob	92	2797	22.1	-15 51	9.7	10.8	K2	1	..	13154b
43	2260	21.8	- 1 19	8.5	9.5	Ko	3	..	19392b	93	2857	22.1	-18 10	8.8	9.8	Ko	2	0,1	13154b
44	2261	21.8	- 2 5	8.47	9.47	Ko	1	..	21505b	94	8373	22.1	-23 44	6.82	6.7	Ao	8	..	13323b
45	2885	21.8	- 2 48	8.7	9.5	G5	1	..	21505b	95	7264	22.1	-29 0	8.3	8.6	Fo	4	..	13281b
46	2682	21.8	- 3 58	9.7	10.1	F5	2	..	19392b	96	1514	22.1	-58 45	9.1	9.1	B9	4	..	38748b
47	2852	21.8	-13 51	9.0	9.4	F5	4	..	21395b	97	1416	22.1	-60 29	9.0	10.1	G5	2	..	40096b
48	8076	21.8	-24 40	8.36	8.9	F5	2	..	13323b	98	1268	22.1	-61 55	9.1	10.1	Ko	2	..	40096b
49	5671	21.8	-35 54	8.4	9.6	K2	2	..	18436b	99	1267	22.1	-62 1	9.7	9.7	A	2	..	40096b
50	5170	21.8	-46 32	9.1	9.2	G5	2	..	39931b	100	1122	22.1	-63 17	8.3	8.9	Go	3	..	40096b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
I	1077	22.1	m. ° ' -67 28	9.2	9.2	Ao	5	..	21452b	51	2800	22.4	m. ° ' -21 33	8.6	9.3	G5	2	..	13323b
2	1386	22.2	+56 41	6.94	7.28	F2	6	..	37705i	52	7063	22.4	-26 37	9.5	11.5	K	1	..	13281b
3	1644	22.2	+50 28	7.8	9.2	Ma	3	..	38240i	53	7271	22.4	-28 21	6.02	6.5	B8	6	..	43038b
4	1510	22.2	+46 2	8.1	8.6	F8	4	..	4904m	54	7268	22.4	-28 43	9.4	10.1	A5	3	..	13281b
5	2089	22.2	+17 19	8.7	9.3	Go	2	..	37607i	55	6070	22.4	-33 27	6.88	7.9	G5	7	..	18436b
6	1964	22.2	+16 10	8.7	9.5	G5	2	..	38283i	56	5878	22.4	-34 8	9.0	9.6	A5	3	..	18436b
7	2091	22.2	+12 49	7.7	8.7	Ko	3	0,4	38283i	57	5879	22.4	-34 44	8.7	9.3	Ao	3	..	18436b
8	2039	22.2	+11 50	8.7	9.2	F8	3	0,3	38283i	58	2391	22.4	-53 44	9.1	8.9	Ao	2	..	39868b
9	2627	22.2	-4 20	8.2	8.2	Ao	5	..	22976b	59	459	22.5	+72 34	7.54	8.32	G5	5	..	37714i
10	2798	22.2	-16 4	8.6	9.0	F5	5	..	41239b	60	1646	22.5	+50 48	10.0	11.0	Ko	1	..	38650i
11	2679	22.2	-18 29	9.5	9.6	A2	2	R	41239b	61	1919	22.5	+43 18	9.5	10.7	K5	1	..	4904m
12	2678	22.2	-18 43	6.83	6.89	A2	8	..	41239b	62	2097	22.5	+14 11	8.1	8.9	G5	4	..	38283i
13	2905	22.2	-20 13	8.88	9.6	G5	1	..	41239b	63	2520	22.5	+0 5	9.6	10.6	Ko	1	..	19340b
14	7060	22.2	-26 8	8.7	9.5	F5	4	..	13281b	64	2685	22.5	-3 22	7.70	8.26	Go	3	..	21505b
15	7271	22.2	-31 11	9.2	9.3	Ao	1	..	13047b	65	2628	22.5	-5 0	8.5	8.5	Ao	4	..	22976b
16	5676	22.2	-35 46	9.8	10.2	Ao	1	..	18436b	66	2858	22.5	-13 29	7.8	8.9	K2	7	..	21395b
17	5274	22.2	-43 33	10.0	8.9	F5	1	..	39945b	67	2787	22.5	-16 14	9.2	10.2	Ko	2	..	13154b
18	5173	22.2	-46 32	10.0	9.8	Fo	1	..	39931b	68	2277	22.5	-54 34	7.9	8.4	Ko	4	..	39868b
19	4390	22.2	-49 8	8.8	8.9	A2	3	..	39931b	69	2154	22.5	-56 55	8.2	7.4	B8	5	..	38748b
20	2388	22.2	-54 2	6.8	8.0	K2	7	..	39868b	70	1422	22.5	-60 54	8.5	8.7	B9	6	..	40096b
21	887	22.2	-70 23	9.5	9.5	Ao	3	..	40074b	71	822	22.5	-71 22	8.2	8.3	A3	5	..	22988b
22	310	22.3	+78 9	8.3	9.1	G5	5	..	37714i	72	1192	22.6	+58 34	8.13	8.41	Fo	5	..	37705i
23	2212	22.3	+40 25	8.0	8.1	A2	3	..	37459i	73	1395	22.6	+52 0	9.1	9.9	G5	1	..	38240i
24	1948	22.3	+26 21	9.5	10.5	Ko	1	..	38646i	74	1921	22.6	+43 39	8.2	8.5	F2	3	0,3 R	37459i
25	2102	22.3	+23 42	8.1	8.5	F5	4	..	38646i	75	2250	22.6	+39 4	8.7	9.5	G5	3	..	37459i
26	2323	22.3	+20 14	9.1	9.4	Fo	4	..	37608i	76	2225	22.6	+8 43	8.5	8.6	A2	2	..	38283i
27	2810	22.3	-7 37	9.5	9.5	Ao	1	..	22976b	77	2306	22.6	+1 22	9.2	10.0	G5	4	..	19340b
28	2678	22.3	-8 47	6.45	6.45	Ao	10	..	21395b	78	5671	22.6	-36 24	9.6	9.6	B9	3	..	18436b
29	2896	22.3	-12 29	7.69	7.77	A3	8	..	21395b	79	5776	22.6	-37 47	9.4	9.9	F2	2	..	18436b
30	2857	22.3	-13 55	9.2	10.0	G5	1	..	21395b	80	5507	22.6	-40 4	6.39	6.6	A3	6	0, R	35949b
31	2799	22.3	-15 35	7.15	8.22	K2	5	..	41239b	81	5208	22.6	-40 54	9.4	10.0	Go	1	..	39945b
32	7062	22.3	-26 27	9.7	10.4	F8	1	..	13281b	82	5091	22.6	-41 49	7.0	7.2	Ao	4	..	35949b
33	6592	22.3	-27 56	8.5	8.2	A2	7	..	13281b	83	4935	22.6	-47 19	7.6	8.7	Ko	4	..	39931b
34	2346	22.3	-52 48	7.0	7.4	F8	7	0,2	39868b	84	2396	22.6	-53 12	9.1	8.9	Fo	4	..	39868b
35	2275	22.3	-54 30	8.4	8.0	B8	6	..	39868b	85	1031	22.6	-64 36	9.5	9.5	Ao	2	..	21452b
36	1381	22.3	-59 8	9.1	10.2	K2	2	..	38748b	86	938	22.6	-68 32	9.5	10.3	G5	2	..	21452b
37	1014	22.3	-66 15	8.8	8.8	B9	5	..	21452b	87	572	22.7	+67 58	7.22	7.28	A2	8	..	37517i
38	937	22.3	-68 12	8.0	9.1	K2	6	..	21452b	88	592	22.7	+67 29	8.3	9.3	Ko	3	..	37517i
39	596	22.3	-73 29	8.7	9.9	K5	2	..	21453b	89	618	22.7	+66 7	9.3	10.3	K	1	..	37517i
40	1676	22.4	+47 38	8.5	9.3	G5	2	..	38240i	90	1388	22.7	+56 11	6.46	6.80	F2	7	..	37705i
41	1963	22.4	+36 35	8.8	10.2	Mb	1	..	37345i	91	1307	22.7	+54 34	8.7	9.9	K5	2	..	38650i
42	1886	22.4	+31 48	9.2	9.8	Go	1	..	37741i	92	1511	22.7	+46 21	10.3	11.3	Ko	1	..	4904m
43	2090	22.4	+17 25	8.7	9.2	F8	3	..	37608i	93	..	22.7	+45 53	..	..	K2	1	..	4904m
44	2130	22.4	+7 47	8.3	9.3	Ko	3	..	9462b	94	2002	22.7	+10 39	8.1	9.2	K2	2	..	38283i
45	2684	22.4	-4 8	8.4	8.5	A2	4	..	22976b	95	2208	22.7	+3 16	8.5	9.3	G5	6	..	19340b
46	2897	22.4	-12 15	9.2	9.3	A3	4	..	21395b	96	2307	22.7	+1 46	9.6	10.6	Ko	1	..	19340b
47	2801	22.4	-16 4	9.2	9.6	F5	2	..	41239b	97	2680	22.7	-8 14	2.16	3.23	K2	..	0,6 R	2517c
48	2786	22.4	-16 50	8.8	9.6	G5	3	..	41239b	98	2899	22.7	-12 16	9.5	9.6	A2	2	..	21395b
49	2859	22.4	-17 46	9.2	10.3	K2	1	..	13154b	99	2802	22.7	-21 54	4.94	6.5	Ko	..	0, R	28,203
50	2715	22.4	-19 15	9.2	9.6	F5	2	..	13154b	100	5684	22.7	-35 34	8.7	8.8	B9	5	..	18436b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
I	5092	22.7	-41 32	9.1	10.3	K2	I	..	39945b	51	2160	23.0	-56 49	8.3	9.5	K5	2	..	38748b
2	5150	22.7	-45 41	7.7	8.3	A2	7	..	39931b	52	1079	23.0	-67 20	9.6	9.7	A2	3	..	21452b
3	2401	22.7	-53 24	7.2	7.7	F5	7	..	39868b	53	1923	23.1	+43 28	9.0	9.6	Go	3	..	4904m
4	2280	22.7	-54 51	9.1	8.9	B8	2	..	39868b	54	1968	23.1	+40 53	8.50	9.50	Ko	3	..	37459i
5	1424	22.7	-60 36	9.1	9.3	Ao	3	..	40096b	55	1951	23.1	+26 39	8.3	9.3	Ko	2	..	37741i
6	1032	22.7	-64 16	7.5	7.6	A2	8	..	40221b	56	2094	23.1	+13 5	7.58	8.14	Go	4	..	3761oi
7	1073	22.8	+61 57	9.3	9.7	F5	I	..	37517i	57	2043	23.1	+12 3	8.5	9.3	G5	2	..	3761oi
8	2629	22.8	- 5 4	8.95	9.37	F5	3	..	22976b	58	2188	23.1	+ 9 30	5.52	6.08	Go	9	R	3761oi
9	2802	22.8	- 5 38	5.44	6.00	Go	10	..	22976b	59	2200	23.1	- 0 36	9.6	10.1	F8	2	..	1934ob
10	2681	22.8	-18 43	9.2	9.7	F8	2	..	41239b	60	2632	23.1	- 5 2	8.85	9.35	F8	3	..	22976b
11	5283	22.8	-43 8	9.8	9.5	Go	2	..	39945b	61	2838	23.1	-11 8	8.7	8.8	A2	4	..	21395b
12	5151	22.8	-45 58	8.8	9.0	F5	4	..	39931b	62	2644	23.1	-11 57	9.9	10.4	F8	1	..	21395b
13	3809	22.8	-51 31	8.8	8.4	A2	6	..	39868b	63	2860	23.1	-14 26	7.46	7.96	F8	8	..	21395b
14	2161	22.8	-55 24	9.5	9.5	Ao	2	..	39868b	64	2862	23.1	-17 36	9.0	9.6	Go	3	2,3	13154b
15	1384	22.8	-59 27	9.4	9.4	B9	3	..	38748b	65	7078	23.1	-26 41	9.4	10.7	Ko	1	..	13281b
16	1078	22.8	-67 45	9.5	9.5	Ao	3	..	21452b	66	6603	23.1	-27 57	8.2	8.9	F5	5	..	13281b
17	302	22.9	+81 46	4.58	5.65	K2	..	2,10	1695c	67	5889	23.1	-34 59	9.64	9.6	Ao	2	..	18436b
18	460	22.9	+72 5	9.5	10.1	G	2	..	37706i	68	4148	23.1	-51 3	9.2	9.5	Fo	3	..	39868b
19	1512	22.9	+46 13	9.6	10.8	K5	I	..	4904m	69	3817	23.1	-51 22	10.2	9.2	Ao	2	..	39868b
20	1966	22.9	+41 33	8.6	9.6	Ko	2	..	37459i	70	1034	23.1	-64 50	6.84	6.8	Fo	9	..	40221b
21	2055	22.9	+15 36	8.5	9.1	Go	3	..	38283i	71	1513	23.2	+46 31	9.5	10.5	K	1	..	4904m
22	2917	22.9	- 6 56	9.0	9.1	A3	5	..	22976b	72	2096	23.2	+12 49	6.92	7.70	G5	5	..	3761oi
23	2907	22.9	-20 21	8.48	9.9	K5	2	..	41239b	73	2226	23.2	+ 8 37	5.88	6.88	Ko	8	..	3761oi
24	5288	22.9	-42 38	9.1	8.9	B9	6	..	39945b	74	2841	23.2	- 9 35	7.18	8.18	Ko	7	..	21395b
25	5284	22.9	-43 48	7.5	7.7	Ao	8	..	39945b	75	6407	23.2	-32 27	8.7	8.4	Ao	4	..	13047b
26	4942	22.9	-47 7	10.0	9.8	A2	1	..	39931b	76	5680	23.2	-36 52	10.4	10.4	A5	2	..	18436b
27	2354	22.9	-52 25	9.4	9.5	A2	2	..	39868b	77	5517	23.2	-39 56	9.3	8.8	B9	4	..	18436b
28	2404	22.9	-53 10	9.3	9.3	B9	2	..	39868b	78	4402	23.2	-49 52	8.9	8.4	Ao	4	..	39931b
29	1425	22.9	-60 21	9.5	10.1	Go	2	..	40096b	79	1515	23.2	-58 46	9.5	9.9	F5	2	..	38748b
30	1271	22.9	-61 31	6.00	6.4	A2	..	0,10	56,126	80	1234	23.2	-62 25	10.1	10.1	A	1	..	40096b
31	578	22.9	-75 39	10.1	10.1	Ao	2	..	21453b	81	1080	23.2	-67 29	7.9	8.3	F5	7	..	21452b
32	2089	23.0	+24 14	9.2	10.0	G5	1	..	38646i	82	594	23.3	+67 19	8.02	8.30	Fo	5	..	37517i
33	2132	23.0	+ 6 56	9.2	9.3	A2	3	..	9462b	83	1514	23.3	+46 35	9.0	10.0	Ko	4	0,2	4904m
34	2180	23.0	+ 6 20	7.9	8.9	Ko	5	5,4	9462b	84	2813	23.3	- 7 17	7.06	8.41	Ma	6	..	22976b
35	2199	23.0	- 0 57	9.9	9.9	Ao	2	..	1934ob	85	7209	23.3	-25 55	8.5	8.9	F8	5	..	13281b
36	2803	23.0	- 5 14	8.60	9.67	K2	4	..	22976b	86	7081	23.3	-26 40	8.1	9.5	Ko	5	..	13281b
37	2840	23.0	- 9 22	8.0	9.0	Ko	6	..	21395b	87	7481	23.3	-29 27	8.9	9.5	F8	3	..	13281b
38	2643	23.0	-11 43	8.7	9.7	Ko	3	..	21395b	88	7575	23.3	-31 4	7.7	9.5	K5	1	..	13047b
39	8096	23.0	-24 58	9.55	10.4	G5	1	..	13281b	89	5682	23.3	-36 26	7.69	8.2	Ao	7	..	18436b
40	7205	23.0	-25 20	8.9	10.4	F5	1	..	13281b	90	4951	23.3	-47 30	10.2	10.1	G5	1	..	39931b
41	6077	23.0	-33 21	7.13	7.7	Ko	7	..	18436b	91	2290	23.3	-54 26	7.2	7.2	B3	7	5,2	39868b
42	6080	23.0	-33 41	8.4	8.3	Ao	6	..	18436b	92	2045	23.3	-57 16	9.1	8.9	Ao	3	..	38748b
43	5513	23.0	-39 28	9.4	9.4	Ao	3	..	18436b	93	1389	23.3	-59 18	7.4	9.0	Ko	5	..	38748b
44	5152	23.0	-45 41	8.4	8.3	A2	5	..	39931b	94	1015	23.3	-66 22	9.7	9.7	Ao	3	..	21452b
45	4947	23.0	-48 1	9.0	9.8	Ko	1	..	39931b	95	940	23.3	-69 1	9.2	10.2	Ko	2	..	21452b
46	4700	23.0	-48 36	9.2	8.9	Ao	3	..	39931b	96	1056	23.3	-69 38	6.58	8.2	Ko	5	..	22988b
47	4147	23.0	-50 44	8.0	8.3	B8	6	..	39868b	97	441	23.3	-78 39	9.6	10.6	Ko	1	..	21453b
48	2360	23.0	-52 56	5.22	5.6	B5	..	3,9R	56,126	98	1389	23.4	+56 22	9.0	9.5	F8	3	..	38224i
49	2406	23.0	-53 56	8.5	8.6	A2	4	..	39868b	99	2218	23.4	+19 42	8.15	8.57	F5	4	..	37608i
50	2163	23.0	-55 39	7.0	7.6	B8	7	..	39868b	100	2097	23.4	+13 1	7.72	8.50	G5	2	..	3761oi

THE HENRY DRAPER CATALOGUE.

81900

9^h 23^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2814	23.4	- 7 40	8.0	8.0	Ao	5	..	21395b	51	2175	23.7	- 55 31	8.4	9.2	Ko	3	..	39868b
2	2843	23.4	- 9 33	6.87	7.87	Ko	8	..	21395b	52	1124	23.7	- 63 18	8.1	8.2	A3	5	..	40221b
3	2807	23.4	- 22 6	7.36	8.0	Ko	5	..	13323b	53	1238	23.8	+ 59 11	7.66	8.73	K2	3	..	37705i
4	8402	23.4	- 23 14	7.9	8.7	Ko	3	..	13323b	54	2036	23.8	+ 21 20	7.9	8.7	G5	3	..	37608i
5	7293	23.4	- 28 28	8.2	10.4	K2	1	..	13281b	55	2325	23.8	+ 20 34	8.9	9.7	G5	2	..	37607i
6	5698	23.4	- 35 46	8.7	9.0	F8	4	..	18436b	56	2845	23.8	- 9 50	7.71	7.77	A2	8	..	21395b
7	3824	23.4	- 51 20	8.5	8.6	B9	7	..	39868b	57	2809	23.8	- 16 6	8.0	8.4	F5	6	..	41239b
8	2365	23.4	- 52 56	8.9	9.8	K2	1	..	39868b	58	4955	23.8	- 47 52	8.2	8.0	Fo	5	..	39931b
9	1427	23.4	- 61 3	8.5	8.8	G5	2	..	40221b	59	4160	23.8	- 50 10	9.60	9.3	A2	2	..	39931b
10	1057	23.4	- 69 58	7.90	7.4	B9	6	..	22988b	60	405	23.8	- 79 12	9.4	10.2	G5	3	..	21453b
11	1193	23.5	+ 60 20	9.3	10.4	K2	1	..	38224i	61	406	23.8	- 79 57	7.62	8.7	Ko	5	2,4	20869b
12	1677	23.5	+ 47 16	9.3	10.1	G5	1	..	38336i	62	1776	23.9	+ 48 18	8.1	8.5	F5	3	..	38240i
13	1515	23.5	+ 45 54	9.3	9.8	F8	3	..	4904m	63	2252	23.9	+ 39 21	8.5	9.5	Ko	3	..	37459b
14	2092	23.5	+ 17 32	8.5	9.5	Ko	3	..	37607i	64	1998	23.9	+ 34 0	7.8	8.8	Ko	4	..	37741i
15	2686	23.5	- 8 46	8.0	9.0	Ko	6	..	21395b	65	1974	23.9	+ 15 49	8.6	9.2	G	1	..	38283i
16	2844	23.5	- 9 54	8.11	9.18	K2	5	..	21395b	66	2311	23.9	+ 1 30	8.5	8.5	Ao	7	..	19340b
17	2807	23.5	- 16 5	9.1	9.7	Go	3	5,1	13154b	67	2843	23.9	- 10 32	9.2	9.2	Ao	2	..	21395b
18	7085	23.5	- 27 2	8.5	10.4	Ko	2	..	13281b	68	2863	23.9	- 14 16	9.5	10.3	G5	2	..	21395b
19	5895	23.5	- 34 34	6.48	7.0	A3	9	..	18436b	69	2687	23.9	- 19 9	8.6	9.0	Go	4	..	41239b
20	5102	23.5	- 41 13	9.3	9.7	F8	2	..	39945b	70	5106	23.9	- 41 10	8.7	10.0	K5	2	..	39945b
21	4707	23.5	- 48 15	6.98	7.7	B9	6	0,8	46200b	71	5302	23.9	- 43 12	9.1	8.4	A3	4	..	39945b
22	2368	23.5	- 53 4	7.2	8.7	Mb	2	..	39868b	72	1428	23.9	- 60 22	9.4	10.6	K5	1	..	40096b
23	2420	23.5	- 53 26	9.0	10.1	K5	1	..	39868b	73	161	23.9	- 87 6	10.1	10.5	F5	2	..	22238b
24	343	23.5	- 80 24	9.6	10.6	Ko	2	..	21453b	74	212	24.0	+ 84 17	8.7	9.0	Fo	4	..	37546i
25	2804	23.6	- 5 52	9.7	10.5	G5	2	..	22976b	75	1678	24.0	+ 46 51	9.3	9.8	F8	3	..	4904m
26	2687	23.6	- 8 59	9.1	10.1	Ko	3	..	21395b	76	1870	24.0	+ 33 45	8.1	8.1	Ao	4	..	37741i
27	2645	23.6	- 11 42	10.1	10.5	F5	1	..	21395b	77	2207	24.0	+ 18 4	7.48	8.48	Ko	6	0,4	37608i
28	2796	23.6	- 16 23	9.1	10.1	Ko	2	..	13154b	78	2181	24.0	+ 5 29	8.9	9.4	F8	2	..	19340b
29	7218	23.6	- 25 22	9.9	10.4	Go	1	..	13281b	79	2212	24.0	+ 3 33	9.4	10.4	Ko	1	..	19340b
30	7215	23.6	- 26 0	10.2	11.0	K	1	..	13281b	80	2201	24.0	- 0 49	6.29	6.43	A5	7	..	21505b
31	5191	23.6	- 47 6	9.8	10.1	Go	1	..	39931b	81	2819	24.0	- 8 2	8.0	9.0	Ko	4	E	21395b
32	4953	23.6	- 48 1	9.4	9.5	F8	2	..	39931b	82	8411	24.0	- 23 59	8.7	8.4	F5	2	..	13323b
33	1082	23.6	- 67 55	8.1	9.1	Ko	7	..	21452b	83	7224	24.0	- 25 51	8.5	8.0	A2	4	..	13323b
34	890	23.6	- 70 39	9.6	9.7	A2	2	..	40074b	84	7584	24.0	- 30 41	9.1	10.1	Ko	2	..	13281b
35	825	23.6	- 71 19	8.7	8.8	A3	3	..	22988b	85	5905	24.0	- 34 28	7.09	7.4	B9	8	..	18436b
36	564	23.7	+ 70 9	8.7	9.1	F5	4	..	37706i	86	5224	24.0	- 40 45	8.7	9.7	K2	2	..	39945b
37	845	23.7	+ 63 30	3.75	4.03	Fo	..	R	1844c	87	5301	24.0	- 42 8	7.3	7.8	A2	4	..	35949b
38	1925	23.7	+ 43 27	8.6	9.1	F8	3	..	4904m	88	5166	24.0	- 45 34	9.8	9.3	A2	2	..	39931b
39	2016	23.7	+ 42 42	7.81	8.23	F5	5	3,5	38336i	89	2302	24.0	- 54 56	8.5	8.6	A2	5	..	39868b
40	1765	23.7	+ 27 49	8.1	8.1	Ao	5	..	37741i	90	1394	24.0	- 59 8	6.6	6.6	B9	9	..	38748b
41	2522	23.7	+ 0 13	8.9	9.9	Ko	5	..	19340b	91	1429	24.0	- 60 14	9.46	9.4	F5	2	..	40096b
42	5688	23.7	- 36 54	9.4	9.9	Fo	2	..	18436b	92	1431	24.0	- 60 56	8.9	9.3	F8	2	..	40221b
43	5592	23.7	- 39 1	9.4	10.0	A2	2	..	18436b	93	1107	24.0	- 65 39	9.6	10.2	Go	2	..	40096b
44	5296	23.7	- 42 48	10.0	10.2	A5	1	..	39945b	94	1517	24.1	+ 46 30	9.0	9.5	F8	4	..	4904m
45	4954	23.7	- 47 18	9.4	10.1	K5	1	..	39931b	95	1726	24.1	+ 45 12	7.12	7.26	A5	7	3,9	38336i
46	4712	23.7	- 48 24	8.0	8.0	B8	6	2,4	39931b	96	1889	24.1	+ 32 28	7.80	8.36	Go	4	..	37741i
47	3832	23.7	- 51 21	9.4	8.7	A2	4	..	39868b	97	2901	24.1	- 2 19	4.78	5.20	F5	..	0,R	56,86
48	3830	23.7	- 52 1	8.5	8.3	B9	5	..	39868b	98	2811	24.1	- 15 46	9.2	10.4	K5	1	..	41239b
49	2423	23.7	- 53 55	7.1	7.4	G5	8	..	39868b	99	2868	24.1	- 17 57	8.4	8.4	Ao	6	..	41239b
50	2294	23.7	- 54 21	8.4	8.6	Ao	3	..	39868b	100	2912	24.1	- 20 22	8.0	7.9	B9	6	..	41239b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6622	24.1	27 32	8.9	9.5	A5	3	..	13281b	51	409	24.4	79 19	10.6	10.6	A	1	..	21453b
2	5602	24.1	38 48	10.4	10.2	Ao	2	..	18436b	52	1339	24.5	55 42	8.01	8.07	A2	4	E	37705i
3	2433	24.1	53 32	8.4	7.8	B8	5	..	39868b	53	2098	24.5	13 48	8.3	9.3	Ko	2	..	3761oi
4	2429	24.1	53 52	8.6	9.5	Ko	3	..	39868b	54	2183	24.5	4 59	9.2	9.8	Go	2	..	1934ob
5	1430	24.1	61 3	9.4	10.6	K5	1	..	40096b	55	2215	24.5	3 36	9.9	10.2	F2	3	..	1934ob
6	1060	24.1	69 12	8.5	9.7	K5	1	..	22988b	56	2216	24.5	3 20	9.2	10.0	G5	4	..	1934ob
7	1059	24.1	69 58	9.00	9.1	A3	3	..	22988b	57	2905	24.5	2 28	9.0	10.0	Ko	1	..	21505b
8	467	24.2	73 27	8.2	9.0	G5	3	..	37714i	58	2866	24.5	13 18	7.26	8.44	K5	7	..	21395b
9	1727	24.2	45 28	9.3	9.4	A2	4	..	4904m	59	2800	24.5	16 37	9.1	9.9	G5	2	..	13154b
10	1992	24.2	31 45	7.60	7.55	B8	6	..	37741i	60	2801	24.5	16 50	9.0	10.0	Ko	3	5,2	13154b
11	1872	24.2	30 28	9.5	9.5	A	1	..	37741i	61	2872	24.5	17 13	9.5	10.1	Go	2	5,1	13154b
12	1906	24.2	29 9	8.0	9.0	Ko	3	..	37741i	62	8122	24.5	24 36	8.5	10.4	Ma	2	..	13281b
13	1761	24.2	27 9	10.2	11.2	Ko	1	..	38646i	63	7233	24.5	25 47	9.9	10.1	Fo	2	..	13281b
14	2905	24.2	13 8	8.2	9.6	Ma	5	..	21395b	64	7101	24.5	26 50	8.9	10.1	Ao	2	..	13281b
15	2812	24.2	15 23	8.6	8.9	Fo	5	..	41239b	65	5716	24.5	35 10	7.94	8.4	F5	6	..	18436b
16	2869	24.2	17 35	9.0	9.4	F5	2	..	41239b	66	5533	24.5	39 39	8.4	8.5	B9	7	..	18436b
17	8115	24.2	24 59	7.13	7.5	A3	7	..	13323b	67	5311	24.5	42 27	10.2	10.2	A5	1	..	39945b
18	7226	24.2	25 55	8.3	7.8	A2	6	..	13323b	68	1037	24.5	64 29	6.36	6.1	A3	10	..	40221b
19	5228	24.2	40 49	9.3	9.7	G5	3	..	39945b	69	1873	24.6	30 0	8.8	9.3	F8	2	..	37741i
20	5198	24.2	46 14	9.1	9.2	Ao	4	..	39931b	70	2185	24.6	5 41	8.7	8.8	A2	3	..	1934ob
21	2379	24.2	52 59	8.5	9.5	K5	1	..	39868b	71	2211	24.6	2 46	8.9	9.0	A3	2	..	1934ob
22	1524	24.2	58 19	8.5	9.9	K2	2	..	38748b	72	2906	24.6	2 41	7.8	8.2	F5	4	R	21505b
23	1523	24.2	58 34	9.1	9.1	Ao	3	..	38748b	73	2906	24.6	2 41	7.8	8.2	A3	4	R	21505b
24	1432	24.2	60 30	9.3	10.5	K5	1	..	40096b	74	2693	24.6	3 48	6.41	7.19	G5	7	..	21505b
25	216	24.2	84 12	7.85	9.2	K2	4	..	22238b	75	2923	24.6	7 4	8.2	9.3	K2	4	..	22976b
26	595	24.3	67 9	8.7	9.7	Ko	1	..	38654b	76	2873	24.6	17 24	8.8	8.8	Ao	4	..	41239b
27	846	24.3	63 8	9.3	9.7	F5	2	..	37517i	77	2915	24.6	20 19	5.96	7.7	K5	..	3,6	56,127
28	2105	24.3	25 7	8.5	9.5	Ko	2	..	38646i	78	5913	24.6	34 7	10.0	9.4	F5	2	..	18436b
29	2182	24.3	5 30	8.5	8.9	F5	4	..	1934ob	79	5313	24.6	42 38	9.6	9.7	Ao	2	..	39945b
30	2904	24.3	2 44	6.87	6.87	Ao	6	..	21505b	80	5177	24.6	45 19	9.6	9.5	Fo	2	..	39931b
31	7494	24.3	29 20	9.2	9.5	F5	2	..	13281b	81	2386	24.6	52 52	9.5	9.6	A5	3	..	39868b
32	5803	24.3	37 46	7.6	8.2	Ao	6	..	18436b	82	2058	24.6	57 39	7.4	7.6	Go	7	..	38748b
33	5110	24.3	41 46	9.0	10.3	Ko	1	..	39945b	83	1397	24.6	60 5	9.36	9.3	Ao	2	..	38748b
34	5306	24.3	42 40	9.6	9.4	Fo	2	..	39945b	84	1126	24.6	63 11	8.2	8.8	Go	3	R	15517b
35	4170	24.3	50 17	9.8	9.3	Ao	2	..	39931b	85	1126	24.6	63 11	8.2	8.8	Ao	3	R	15517b
36	2439	24.3	54 1	9.3	10.3	Ko	1	..	39868b	86	1971	24.7	41 4	8.9	9.5	G	1	..	37459i
37	2304	24.3	54 48	9.0	8.9	Ao	3	..	39868b	87	1999	24.7	34 5	5.98	6.98	Ko	8	..	37741i
38	1526	24.3	58 56	9.6	9.7	A2	2	..	38748b	88	2098	24.7	22 0	9.2	10.2	Ko	2	..	38046i
39	1083	24.3	67 58	8.7	9.7	Ko	3	..	21452b	89	2212	24.7	2 38	7.9	8.3	F5	6	..	1934ob
40	1728	24.4	45 7	7.72	9.07	Mb	5	0,3	4904m	90	2213	24.7	1 52	9.6	10.4	G5	2	..	1934ob
41	2214	24.4	3 40	9.9	10.5	Go	2	..	1934ob	91	2315	24.7	1 41	10.6	11.2	Go	2	..	1934ob
42	2313	24.4	1 41	8.9	9.5	Go	5	..	1934ob	92	2647	24.7	12 3	9.5	9.9	F5	2	..	21395b
43	2268	24.4	1 46	6.04	6.12	A3	..	2,8	56,86	93	2804	24.7	17 4	7.05	7.11	A2	8	..	41239b
44	2870	24.4	17 22	8.8	9.8	Ko	1	..	41239b	94	7237	24.7	25 12	9.05	8.9	F2	3	..	13323b
45	2723	24.4	20 0	8.0	8.1	Fo	4	..	41239b	95	7316	24.7	28 36	9.2	10.1	F8	2	..	13281b
46	7229	24.4	25 42	10.9	10.4	A2	1	..	13281b	96	7322	24.7	31 14	9.7	9.5	Ao	2	..	13047b
47	5710	24.4	35 44	9.0	9.6	F2	3	..	18436b	97	5711	24.7	36 29	8.7	9.3	Ao	4	..	18436b
48	5806	24.4	37 40	8.0	9.4	K2	2	..	18436b	98	5537	24.7	39 20	9.4	9.7	Ao	2	..	18436b
49	5170	24.4	45 36	10.5	9.8	A3	1	..	39931b	99	5233	24.7	41 2	8.7	9.7	Ko	3	..	39945b
50	580	24.4	75 32	9.0	9.6	Go	4	..	21453b	100	4723	24.7	48 41	8.5	9.2	G5	3	..	39931b

THE HENRY DRAPER CATALOGUE.

82100

9^h 24^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2387	24.7	-53 4	7.2	7.4	Fo	..	2,3-	56,127	51	5620	25.1	-38 34	7.42	8.9	Ko	5	..	18436b
2	1530	24.7	-58 29	7.9	7.9	B8	7	..	38748b	52	5319	25.1	-43 22	8.8	8.1	F8	5	..	39945b
3	1398	24.7	-59 48	8.2	8.5	Ao	5	..	38748b	53	4971	25.1	-48 2	8.8	8.6	Fo	3	..	39931b
4	2000	24.8	+34 38	7.67	8.85	K5	1	..	37345i	54	2065	25.1	-58 5	8.8	8.3	B9	6	..	38748b
5	2100	24.8	+22 16	6.81	6.89	A3	8	1,7	37608i	55	1532	25.1	-58 9	9.1	8.7	A	4	..	38748b
6	2182	24.8	+6 4	7.6	8.7	K2	6	..	9462b	56	1109	25.1	-65 50	9.1	10.2	K2	1	..	40074b
7	2525	24.8	-0 8	9.9	10.4	F8	2	..	19340b	57	2041	25.2	+21 28	8.7	9.0	Fo	3	..	37608i
8	5612	24.8	-38 40	9.8	9.4	B3	3	..	18436b	58	2212	25.2	+18 17	9.6	10.4	G5	2	..	37607i
9	5503	24.8	-45 3	7.1	7.4	B5	8	5,5 R	39931b	59	2052	25.2	+11 2	7.7	8.5	G5	3	..	37610i
10	2320	24.8	-54 8	8.5	8.9	B8	4	..	39868b	60	2864	25.2	-14 39	9.5	10.5	Ko	2	..	21395b
11	2321	24.8	-54 54	7.6	7.2	B5	7	..	39868b	61	7114	25.2	-26 9	6.80	7.8	G5	7	0,7	13281b
12	1274	24.8	-61 44	10.1	10.2	A3	1	..	40096b	62	6646	25.2	-27 17	8.1	9.9	K5	2	..	13281b
13	1063	24.8	-70 1	9.1	10.5	Ma	..	..	M	63	6645	25.2	-28 0	8.9	9.5	F8	3	..	13281b
14	507	24.8	-77 29	6.9	7.5	Go	10	..	21453b	64	6113	25.2	-33 35	7.8	8.1	F8	8	..	18436b
15	1075	24.9	+62 23	9.0	9.5	F8	2	..	37517i	65	5817	25.2	-37 57	6.24	6.3	A2	9	..	18436b
16	1872	24.9	+44 37	10.0	10.6	G	1	..	4904m	66	5323	25.2	-42 22	9.0	9.4	G5	3	..	39945b
17	2867	24.9	-14 9	9.5	10.3	G5	3	..	21395b	67	5185	25.2	-45 31	9.6	9.6	F5	1	..	39931b
18	2815	24.9	-21 38	8.6	9.3	A2	3	..	41239b	68	4973	25.2	-47 46	9.6	9.3	Fo	2	..	39931b
19	5917	24.9	-34 45	10.7	10.2	Ao	2	..	18436b	69	4734	25.2	-49 5	9.6	9.5	Ao	2	..	39931b
20	5811	24.9	-37 24	8.4	9.1	F8	4	..	18436b	70	1238	25.2	-62 28	9.3	10.1	G5	1	..	40096b
21	5505	24.9	-45 3	7.3	7.7	B8	6	2,3 R	39931b	71	504	25.3	+71 30	7.27	8.27	Ko	6	0,3	37706i
22	4728	24.9	-48 45	9.2	9.8	G5	1	..	39931b	72	1241	25.3	+59 20	8.1	9.1	Ko	2	..	37705i
23	4730	24.9	-49 2	9.6	9.5	F5	2	..	39931b	73	2255	25.3	+39 2	8.7	9.7	Ko	2	..	37459i
24	4417	24.9	-49 12	7.0	7.7	F2	7	2,6	39931b	74	1908	25.3	+29 43	9.09	9.87	G5	1	..	37741i
25	2212	24.9	-56 53	7.9	8.9	Ma	2	..	40105b	75	2109	25.3	+25 29	8.7	10.1	Ma	3	..	38646i
26	945	24.9	-68 51	8.2	8.5	Fo	3	..	22988b	76	2101	25.3	+13 56	7.6	8.6	Ko	3	..	37610i
27	2061	25.0	+15 22	8.6	9.2	G	1	E	38283i	77	2869	25.3	-14 0	9.0	9.5	F8	4	..	21395b
28	2100	25.0	+13 23	8.12	8.68	Go	2	..	37610i	78	2872	25.3	-14 23	8.6	9.7	K2	5	..	21395b
29	2912	25.0	-12 18	8.4	9.8	Ma	3	..	21395b	79	2693	25.3	-19 4	9.5	9.5	B9	2	..	41239b
30	2911	25.0	-12 58	9.2	10.2	Ko	1	..	21395b	80	2623	25.3	-22 54	6.50	7.9	Ko	6	..	13323b
31	7505	25.0	-29 33	8.9	9.6	F5	1	..	13281b	81	8145	25.3	-25 5	7.54	8.6	Ko	4	..	13323b
32	5543	25.0	-39 24	9.3	10.3	K5	1	..	18436b	82	5727	25.3	-35 51	9.4	9.4	A2	2	..	18436b
33	5241	25.0	-40 15	8.38	8.8	G5	5	..	18436b	83	5511	25.3	-44 22	8.2	9.3	Ko	2	..	39945b
34	5184	25.0	-45 36	9.0	10.1	K5	1	..	39931b	84	5512	25.3	-45 2	8.98	9.8	Ko	1	..	39931b
35	2457	25.0	-53 28	8.2	8.1	F8	4	..	39868b	85	5209	25.3	-46 59	9.4	9.5	Fo	2	..	39931b
36	1237	25.0	-62 10	9.5	9.9	F5	2	..	40096b	86	2393	25.3	-52 59	9.1	9.5	Ko	1	..	39868b
37	590	25.0	-74 59	10.6	10.7	A2	1	..	21453b	87	1016	25.3	-66 9	7.6	7.6	B8	7	..	40074b
38	621	25.1	+66 15	8.1	8.9	G5	2	..	37517i	88	584	25.3	-76 18	8.0	9.0	Ko	8	..	21453b
39	1764	25.1	+26 58	10.0	11.0	Ko	1	..	38646i	89	462	25.4	+72 39	5.82	6.24	F5	9	5,10	37706i
40	2062	25.1	+15 42	8.1	8.6	F8	3	E	38283i	90	1891	25.4	+32 10	9.1	9.7	Go	2	..	37741i
41	2207	25.1	-0 20	10.6	11.4	G5	1	..	19340b	91	1768	25.4	+27 50	6.59	6.59	Ao	10	..	37741i
42	2814	25.1	-5 34	8.2	8.3	A2	8	..	22976b	92	1956	25.4	+26 24	9.7	10.1	F5	1	..	38646i
43	2875	25.1	-18 10	8.8	9.1	Fo	3	..	41239b	93	2219	25.4	+3 16	9.2	9.8	Go	3	..	19340b
44	2690	25.1	-18 43	8.6	9.8	K5	1	..	41239b	94	2316	25.4	+1 42	7.7	7.7	Ao	9	..	19340b
45	2726	25.1	-19 57	9.2	9.6	Go	1	..	41239b	95	7601	25.4	-30 35	9.2	9.6	Ao	2	..	13281b
46	6644	25.1	-27 22	9.4	10.1	G5	1	..	13281b	96	5245	25.4	-40 21	9.8	9.7	F5	2	..	39945b
47	7507	25.1	-29 37	9.4	9.8	Ao	1	..	13281b	97	2067	25.4	-57 27	9.5	9.5	Ao	2	..	38748b
48	6109	25.1	-33 13	7.6	8.9	Mb	3	..	18436b	98	2015	25.5	+35 33	5.52	6.70	K5	..	0,6	56,86
49	5920	25.1	-34 9	9.4	9.6	Ao	3	..	18436b	99	2848	25.5	-9 43	9.7	10.2	F8	2	..	21395b
50	5724	25.1	-35 30	4.64	6.6	K2	..	2,R	28,203	100	2913	25.5	-12 18	9.2	10.0	G5	1	..	21395b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2865	25.5	-15 11	8.01	9.01	Ko	3	..	41239b	51	8158	25.8	-24 36	8.7	9.3	A5	2	..	13323b
2	2806	25.5	-17 10	8.8	9.3	F8	3	..	41239b	52	6654	25.8	-27 15	8.3	8.9	B9	5	..	13281b
3	2695	25.5	-18 21	9.5	10.5	Ko	1	..	41239b	53	5824	25.8	-37 45	9.4	10.1	G5	1	..	18436b
4	2819	25.5	-21 42	7.9	8.4	Ao	6	..	41239b	54	5563	25.8	-39 21	8.8	9.1	F5	3	..	18436b
5	7117	25.5	-26 9	5.67	7.3	Ko	8	0,8	13323b	55	5217	25.8	-46 37	10.2	10.1	A3	1	..	39931b
6	5122	25.5	-41 54	9.4	9.7	A3	2	..	39945b	56	2473	25.8	-53 15	9.2	9.2	B9	2	..	39868b
7	5326	25.5	-44 7	7.1	7.6	F5	3	..	35949b	57	2340	25.8	-54 21	9.5	9.5	B8	2	..	39868b
8	4976	25.5	-47 51	8.4	7.8	A2	4	..	39931b	58	1070	25.8	-69 32	9.0	9.1	A2	2	..	22988b
9	509	25.5	-77 59	9.4	10.4	Ko	3	..	21453b	59	582	25.8	-75 20	8.03	8.6	G5	7	..	21453b
10	565	25.6	+70 16	4.57	5.13	Go	..	0,R	56,86	60	581	25.8	-75 24	9.8	9.9	A3	2	..	21453b
11	1342	25.6	+53 33	9.3	9.8	F8	2	..	38650i	61	1779	25.9	+48 45	7.7	8.7	Ko	2	..	38240i
12	1992	25.6	+36 52	7.07	8.14	K2	4	..	37345i	62	1768	25.9	+27 10	8.6	9.2	Go	2	..	38646i
13	2103	25.6	+13 55	8.6	9.1	F8	2	..	37610i	63	2047	25.9	+21 11	8.7	9.5	G5	3	..	37608i
14	2049	25.6	+12 18	8.9	9.9	Ko	2	E	38283i	64	2331	25.9	+20 42	7.18	8.18	Ko	5	..	37608i
15	2011	25.6	+10 35	7.6	7.7	A5	4	..	37610i	65	2104	25.9	+13 18	6.98	7.98	Ko	4	..	37610i
16	2526	25.6	+0 45	9.6	10.4	G5	1	..	19340b	66	2012	25.9	+10 44	8.3	8.9	Go	2	..	38283i
17	2915	25.6	-12 48	9.5	10.3	G5	1	..	21395b	67	2221	25.9	+3 32	7.22	7.72	F8	8	..	19340b
18	2697	25.6	-19 8	8.0	8.3	F2	6	..	41239b	68	2820	25.9	-5 14	6.90	7.90	Ko	8	..	22976b
19	2920	25.6	-20 34	9.2	9.6	G5	1	..	41239b	69	2827	25.9	-7 47	9.1	9.4	F2	3	E	21395b
20	6651	25.6	-27 48	7.38	7.3	B9	8	..	13281b	70	2826	25.9	-7 59	9.1	10.2	K2	3	E	21395b
21	6441	25.6	-32 53	8.1	9.0	K5	2	..	13047b	71	2870	25.9	-14 44	9.2	9.8	Go	3	..	21395b
22	5923	25.6	-34 28	10.4	10.1	Ao	1	..	18436b	72	2921	25.9	-20 33	8.0	8.1	Fo	5	..	41239b
23	5924	25.6	-34 55	8.7	8.8	Ao	4	..	18436b	73	6657	25.9	-27 45	8.9	8.9	F5	4	..	13281b
24	5328	25.6	-42 45	6.85	7.4	F5	5	..	35949b	74	7339	25.9	-28 51	9.2	10.1	A5	2	..	13281b
25	2334	25.6	-54 26	8.9	10.1	K2	1	..	39868b	75	7516	25.9	-29 43	7.6	8.6	K5	4	..	13281b
26	2071	25.6	-57 54	8.4	7.4	B8	7	..	38748b	76	5566	25.9	-40 7	10.7	10.0	Ao	2	..	39945b
27	1536	25.6	-58 43	8.0	9.0	Ko	5	..	38748b	77	5195	25.9	-46 2	9.0	8.9	Ao	4	..	39931b
28	1731	25.7	+45 30	8.8	9.8	Ko	4	0,I	4904m	78	3865	25.9	-52 0	7.5	7.7	B8	7	1,2	39868b
29	2698	25.7	-3 38	7.28	8.35	K2	4	..	21505b	79	2073	25.9	-57 19	8.5	9.8	G5	1	..	38748b
30	2824	25.7	-7 55	8.7	9.7	Ko	3	E	21395b	80	1402	25.9	-59 35	8.0	8.2	Ao	7	..	38748b
31	2851	25.7	-10 14	9.31	10.31	Ko	2	..	21395b	81	1128	25.9	-63 55	8.7	9.5	G5	2	..	40221b
32	2867	25.7	-15 9	6.10	7.10	Ko	7	..	41239b	82	1110	25.9	-65 40	8.6	9.4	G5	2	..	40074b
33	2729	25.7	-19 22	8.6	8.7	Fo	3	..	41239b	83	1071	25.9	-69 14	9.0	9.8	G5	1	..	40074b
34	8441	25.7	-23 50	6.81	8.0	K2	5	..	13323b	84	511	25.9	-77 37	10.2	10.5	F2	2	..	21453b
35	7251	25.7	-25 35	9.7	10.4	F8	1	..	13281b	85	597	26.0	+67 14	7.37	7.79	F5	7	..	37517i
36	7336	25.7	-28 9	7.49	8.6	Ko	7	..	13281b	86	848	26.0	+63 17	8.3	9.1	G5	4	..	37517i
37	7337	25.7	-31 7	9.4	9.2	A2	2	..	13047b	87	1780	26.0	+48 36	7.87	8.15	Fo	4	..	38240i
38	5732	25.7	-36 3	9.6	9.9	Fo	1	..	18436b	88	1519	26.0	+46 12	9.8	9.9	A5	3	..	4904m
39	5561	25.7	-39 33	7.6	8.5	G5	4	..	18436b	89	1874	26.0	+44 40	8.42	9.20	G5	5	0,3	4904m
40	5128	25.7	-41 29	8.1	8.5	F2	6	..	39945b	90	2218	26.0	+40 27	8.2	9.2	Ko	1	..	37459i
41	5332	25.7	-44 6	7.2	7.6	F5	3	..	35949b	91	2527	26.0	+0 11	9.9	10.9	Ko	1	..	19340b
42	2396	25.7	-52 38	8.8	9.0	A3	2	..	39868b	92	2928	26.0	-6 15	8.6	8.7	A3	3	..	22976b
43	2471	25.7	-54 4	9.1	8.9	B9	3	..	39868b	93	2870	26.0	-13 25	9.7	10.3	Go	1	..	21395b
44	1538	25.7	-59 4	7.9	9.4	F5	2	..	38748b	94	2819	26.0	-15 30	9.5	9.5	Ao	3	..	41239b
45	596	25.8	+67 12	9.0	9.6	G	2	..	37517i	95	5251	26.0	-40 36	8.7	8.9	F2	4	..	39945b
46	1873	25.8	+44 11	7.62	8.18	Go	6	0,4-	38336i	96	5130	26.0	-42 7	10.4	10.3	A	1	..	39945b
47	2018	25.8	+42 46	8.5	8.5	Ao	3	0,3	37459i	97	4748	26.0	-48 17	7.4	8.3	G5	4	..	39931b
48	1957	25.8	+26 13	9.2	9.8	Go	1	..	38646i	98	4429	26.0	-50 0	9.44	9.2	A2	2	..	39931b
49	2111	25.8	+24 52	8.76	9.83	K2	1	..	38646i	99	1540	26.0	-58 8	9.0	9.0	Ao	3	..	38748b
50	2101	25.8	+13 4	10.6	10.9	F	1	..	37600i	100	1542	26.0	-58 55	9.5	9.9	F5	2	..	38748b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1017	26.0	-67 0	9.6	10.0	F5	I	..	40074b	51	381	26.3	+75 29	9.12	9.26	A5	3	..	37714i
2	592	26.0	-74 36	9.5	9.6	A2	3	..	21453b	52	1875	26.3	+43 53	9.1	9.9	G5	2	..	4904m
3	585	26.0	-76 49	7.8	9.0	K5	7	..	21453b	53	1995	26.3	+37 42	8.3	8.4	A2	2	..	37345i
4	312	26.1	+78 41	8.9	9.2	Fo	3	..	37714i	54	1893	26.3	+32 18	8.2	9.2	Ko	1	..	37741i
5	1194	26.1	+60 14	9.0	10.0	Ko	2	..	38224i	55	2215	26.3	+1 54	6.95	7.45	F8	9	..	1934ob
6	1243	26.1	+59 5	9.5	10.1	Go	1	..	38224i	56	2916	26.3	-2 53	7.52	8.52	Ko	3	..	21505b
7	2113	26.1	+25 24	8.7	9.7	Ko	2	..	38646i	57	2822	26.3	-5 46	9.2	10.4	K5	1	..	22976b
8	2107	26.1	+23 25	4.48	5.66	K5	..	O,R	56,86	58	2923	26.3	-20 35	9.0	9.3	Go	2	..	41239b
9	2332	26.1	+20 26	7.37	8.37	Ko	4	..	37608i	59	2825	26.3	-21 16	8.4	9.0	K2	3	..	41239b
10	2199	26.1	+4 4	8.3	9.1	G5	4	..	1934ob	60	7130	26.3	-26 23	8.7	10.1	Ma	1	..	13281b
11	2208	26.1	-0 18	9.46	9.46	Ao	4	..	1934ob	61	7131	26.3	-26 58	9.1	10.4	Ko	2	..	13281b
12	2850	26.1	-9 16	9.0	10.0	Ko	2	..	21395b	62	7347	26.3	-28 11	8.32	8.6	F5	5	..	13281b
13	7522	26.1	-29 24	8.9	9.5	Ao	3	..	13281b	63	7348	26.3	-28 19	6.75	7.8	Ko	9	..	13281b
14	7611	26.1	-31 6	7.20	7.7	F2	6	..	13047b	64	7525	26.3	-29 57	9.30	9.6	Ko	2	..	13281b
15	6450	26.1	-32 57	6.92	7.6	Ko	6	..	13047b	65	6453	26.3	-32 33	9.0	9.0	A	1	..	13047b
16	5722	26.1	-36 28	10.2	10.4	A2	1	..	18436b	66	5572	26.3	-39 55	8.0	9.7	K5	3	..	18436b
17	5723	26.1	-36 39	8.4	8.1	Ao	7	..	18436b	67	2406	26.3	-53 1	8.9	8.7	B9	3	..	39868b
18	5829	26.1	-37 31	10.0	10.1	G5	1	..	18436b	68	1405	26.3	-59 10	9.9	9.9	Ao	1	..	38748b
19	5338	26.1	-42 47	8.8	7.9	Ao	3	..	35949b	69	1403	26.3	-60 1	8.52	9.3	K5	3	..	38748b
20	5337	26.1	-43 32	7.8	7.4	A2	4	..	35949b	70	219	26.3	-84 14	7.15	8.9	K2	6	..	13465b
21	5523	26.1	-44 29	7.9	8.0	F2	2	..	35949b	71	262	26.4	+82 49	7.49	7.49	Ao	6	2,7	37465i
22	4749	26.1	-48 10	9.8	9.5	Ao	1	..	39931b	72	2334	26.4	+20 29	8.3	8.7	F5	4	..	37608i
23	4433	26.1	-49 53	9.2	9.2	A2	3	..	39931b	73	2829	26.4	-7 42	8.4	9.5	K2	4	E	21395b
24	4195	26.1	-50 13	9.20	9.5	K5	1	..	39931b	74	8451	26.4	-23 12	9.2	8.7	Ao	3	..	13323b
25	2343	26.1	-54 22	7.7	7.7	B8	6	..	39868b	75	5727	26.4	-36 35	9.4	9.6	F5	2	..	18436b
26	1543	26.1	-59 4	8.9	9.4	F8	1	..	38748b	76	5137	26.4	-41 48	10.0	10.3	F5	1	..	39945b
27	402	26.2	+74 47	6.38	6.36	B9	8	I,10	37706i	77	2349	26.4	-54 18	8.1	8.0	Ao	6	..	39868b
28	1401	26.2	+52 8	3.26	3.76	F8p	..	R	1746c	78	2077	26.4	-57 24	9.4	10.4	K	1	..	38748b
29	1732	26.2	+45 6	9.5	10.1	Go	1	..	4904m	79	1239	26.4	-62 47	8.5	8.8	Fo	3	..	40221b
30	1999	26.2	+30 53	9.1	9.7	G	1	..	37741i	80	1657	26.5	+49 53	6.50	6.58	A3	7	..	38240i
31	1770	26.2	+27 16	8.1	8.9	G5	2	..	37741i	81	2014	26.5	+10 9	5.28	6.28	Ko	9	R	37610i
32	1984	26.2	+16 13	7.78	8.78	Ko	3	5,3	37608i	82	2184	26.5	+6 39	8.7	9.5	G5	2	..	1934ob
33	2214	26.2	+2 43	7.7	8.5	G5	6	..	1934ob	83	7355	26.5	-31 26	7.21	5.9	Ao	7	R	43038b
34	2700	26.2	-4 4	8.5	9.7	K5	2	..	21505b	84	7355	26.5	-31 27	6.35	5.9	Ao	7	R	43038b
35	2828	26.2	-8 10	8.6	8.9	F2	4	E	21395b	85	5835	26.5	-37 55	9.4	8.8	Ao	3	..	18436b
36	2852	26.2	-9 23	9.2	10.2	Ko	1	..	21395b	86	5529	26.5	-44 26	7.8	8.0	Go	3	..	35949b
37	2853	26.2	-10 5	9.9	10.9	Ko	1	..	21395b	87	5227	26.5	-46 31	9.8	9.5	Ao	2	..	39931b
38	2917	26.2	-13 5	9.5	10.9	Mb	..	..	M	88	2218	26.5	-56 7	7.9	7.7	A2	6	..	39868b
39	2821	26.2	-15 18	8.35	8.91	Go	4	..	41239b	89	1443	26.5	-60 36	8.9	10.2	Go	2	..	40096b
40	2627	26.2	-23 4	8.0	8.7	Ko	2	..	13323b	90	86	26.5	-88 37	7.3	7.6	Fo	6	..	13459b
41	7258	26.2	-25 10	7.74	8.0	A3	7	..	13323b	91	1520	26.6	+46 8	9.8	10.8	Ko	1	..	4904m
42	7352	26.2	-31 41	8.9	9.0	Ko	2	..	13047b	92	1930	26.6	+43 45	7.9	8.9	Ko	4	O,7-	38336i
43	5738	26.2	-36 5	10.2	10.1	Ao	2	..	18436b	93	1875	26.6	+30 1	9.2	9.5	F	2	..	37741i
44	5724	26.2	-36 9	9.0	9.6	Ao	4	..	18436b	94	2102	26.6	+22 18	7.52	8.52	Ko	5	..	37608i
45	5254	26.2	-40 51	10.2	10.0	A2	2	..	39945b	95	2053	26.6	+11 45	5.12	5.90	G5	9	R	37610i
46	4197	26.2	-50 9	7.34	7.8	Fo	7	2,8	39868b	96	2854	26.6	-9 33	8.13	8.41	Fo	5	..	21395b
47	1277	26.2	-61 50	6.01	7.7	Ko	8	..	40221b	97	8175	26.6	-24 25	8.1	8.3	B9	5	..	13323b
48	1129	26.2	-63 29	8.8	10.0	K5	1	..	40221b	98	8173	26.6	-24 41	8.5	9.5	G5	2	..	13323b
49	1086	26.2	-67 35	8.3	8.3	Ao	6	..	40074b	99	7138	26.6	-26 28	10.2	10.1	Fo	1	..	13281b
50	833	26.2	-71 10	5.48	7.4	Ko	5	5,9	4821b	100	5730	26.6	-36 13	9.0	9.6	G5	2	..	18436b

82400

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5638	26.6	-38 33	10.9	10.3	Ao	2	..	18436b	51	7146	26.9	-26 22	10.4	11.0	Go	1	..	13281b
2	5261	26.6	-40 46	10.0	9.4	B9	2	..	39945b	52	6674	26.9	-27 43	7.9	9.8	K2	2	..	13281b
3	2489	26.6	-54 0	8.3	9.5	K2	2	..	39868b	53	5644	26.9	-38 50	8.4	9.4	Ko	3	..	18436b
4	1545	26.6	-58 48	8.9	9.4	K2	3	..	38748b	54	5584	26.9	-40 0	8.94	8.5	A3	4	..	18436b
5	1242	26.6	-63 1	8.0	8.0	B9	5	..	40221b	55	4996	26.9	-47 10	8.8	8.7	G5	2	..	39931b
6	1018	26.6	-66 15	6.18	6.1	Ao	7	..	4821b	56	4444	26.9	-49 53	9.4	9.8	Ko	1	..	39931b
7	1681	26.7	+46 56	10.3	10.6	F	1	..	4904m	57	3880	26.9	-51 53	8.8	8.0	B8	5	..	39868b
8	1521	26.7	+45 57	6.61	7.61	Ko	5	0,10	38336i	58	835	26.9	-71 21	6.58	7.8	F2	8	..	22988b
9	1773	26.7	+27 2	9.7	9.7	Ao	1	..	37741i	59	742	27.0	+64 10	9.3	9.7	F5	3	..	37517i
10	2054	26.7	+11 27	7.9	8.5	Go	2	..	38283i	60	1522	27.0	+46 40	8.5	9.1	Go	5	5,3	4904m
11	2831	26.7	-7 44	9.1	9.2	A2	4	E	21395b	61	2335	27.0	+20 18	8.6	9.6	Ko	3	..	37608i
12	2652	26.7	-11 38	7.14	8.14	Ko	8	..	21395b	62	2701	27.0	-3 58	8.6	9.6	Ko	2	..	21505b
13	2874	26.7	-14 43	9.9	10.0	A3	3	..	21395b	63	2698	27.0	-8 43	9.5	10.5	Ko	1	..	21395b
14	5838	26.7	-37 59	8.7	8.8	F5	4	..	18436b	64	2812	27.0	-16 38	9.0	10.0	K	1	..	41239b
15	5140	26.7	-41 44	8.4	9.1	Go	3	..	39945b	65	5746	27.0	-35 31	8.0	7.8	Ao	7	..	18436b
16	5532	26.7	-44 27	8.6	8.6	F2	2	..	46200b	66	2363	27.0	-54 30	8.3	8.1	B8	5	..	39868b
17	5229	26.7	-46 23	9.6	9.0	A2	3	..	39931b	67	1546	27.0	-58 26	9.3	9.3	Ao	3	..	38748b
18	4441	26.7	-49 49	9.8	9.8	A	1	..	39931b	68	1278	27.0	-61 55	6.65	7.0	Ao	8	..	40221b
19	4204	26.7	-51 4	5.60	5.4	B8	..	1,7-	56,127	69	1038	27.0	-64 12	9.5	9.5	Ao	1	..	40221b
20	2415	26.7	-52 22	8.7	9.2	A5	2	..	39868b	70	905	27.0	-70 18	9.4	9.5	A2	2	..	40074b
21	2081	26.7	-57 52	7.4	7.8	Ko	8	..	38748b	71	823	27.0	-73 4	7.9	8.0	A3	5	..	22988b
22	1445	26.7	-60 25	10.2	10.2	A	2	..	40096b	72	623	27.1	+65 50	7.92	8.92	Ko	4	..	37517i
23	446	26.7	-78 39	7.84	7.7	B9	10	..	21453b	73	1997	27.1	+37 6	8.1	8.9	G5	2	..	37345i
24	1876	26.8	+44 11	10.3	10.9	G	1	..	4904m	74	2000	27.1	+31 0	7.9	8.9	Ko	4	..	37741i
25	2917	26.8	-2 57	7.48	7.48	Ao	7	..	21505b	75	1776	27.1	+27 38	8.5	8.8	Fo	4	..	37741i
26	2933	26.8	-7 4	7.8	7.9	A5	7	2,8	22976b	76	2654	27.1	-4 39	9.2	9.3	A2	2	..	22976b
27	2696	26.8	-8 17	9.5	9.8	F2	2	E	21395b	77	2858	27.1	-9 55	6.32	7.32	Ko	7	..	21395b
28	2856	26.8	-10 6	6.06	6.20	A5	9	..	21395b	78	2921	27.1	-12 38	9.5	10.0	F8	2	..	21395b
29	2920	26.8	-12 38	8.6	9.1	F8	4	..	21395b	79	2873	27.1	-13 18	9.2	10.2	Ko	3	..	21395b
30	2885	26.8	-17 59	8.2	9.3	K2	2	..	41239b	80	2886	27.1	-17 46	9.5	9.5	A	2	..	41239b
31	2927	26.8	-20 17	9.08	9.0	Ao	2	..	41239b	81	2929	27.1	-20 54	8.4	8.7	G5	3	..	41239b
32	8457	26.8	-23 54	7.42	8.5	K2	4	..	13323b	82	2831	27.1	-21 16	9.9	9.6	Ao	1	..	41239b
33	5579	26.8	-39 18	9.4	10.0	A2	2	..	18436b	83	7365	27.1	-31 31	9.7	9.2	A2	3	..	13047b
34	5580	26.8	-40 2	3.64	4.06	F5	..	5,4R	28,203	84	5586	27.1	-39 31	8.4	8.5	A3	7	..	18436b
35	5267	26.8	-40 58	8.7	9.1	F5	3	..	39945b	85	2252	27.1	-56 52	9.0	9.8	Ko	1	..	40105b
36	5202	26.8	-45 7	6.74	7.7	Ko	4	0,7	35949b	86	1039	27.1	-65 5	9.1	9.7	Go	2	..	40074b
37	4205	26.8	-50 13	9.70	9.2	Ao	2	..	39931b	87	1019	27.1	-66 20	9.4	9.4	Ao	2	..	40074b
38	3874	26.8	-51 36	9.2	10.1	K5	1	..	39868b	88	722	27.2	+64 55	8.80	9.58	G5	3	..	37517i
39	2418	26.8	-52 18	8.6	9.2	Fo	3	..	39868b	89	2054	27.2	+11 50	8.5	9.0	F8	1	..	37610i
40	2222	26.8	-55 36	9.3	9.3	Ao	2	..	39868b	90	2919	27.2	-3 5	7.8	8.8	Ko	3	..	21505b
41	1195	26.9	+60 46	9.1	10.1	Ko	1	..	38224i	91	2826	27.2	-5 20	9.30	9.38	A3	3	..	22976b
42	1347	26.9	+52 52	7.53	7.61	A3	4	..	38240i	92	2876	27.2	-14 20	8.6	9.7	K2	3	..	21395b
43	1775	26.9	+27 27	7.13	8.13	Ko	7	..	37741i	93	2824	27.2	-15 32	9.2	10.2	Ko	1	..	21395b
44	2055	26.9	+11 13	7.8	7.9	A5	3	..	37610i	94	2813	27.2	-16 22	8.6	9.4	G5	2	..	41239b
45	2224	26.9	+3 44	9.4	10.4	Ko	1	..	19340b	95	7532	27.2	-30 6	9.9	10.4	Ko	1	..	13281b
46	2211	26.9	-0 44	4.50	4.58	A3	..	R	56,86	96	5950	27.2	-35 0	9.3	9.9	Ao	2	..	18436b
47	2653	26.9	-4 39	8.2	8.3	A2	8	..	22976b	97	5649	27.2	-38 31	9.3	10.2	Ko	2	..	18436b
48	2854	26.9	-10 59	9.5	10.3	G5	3	..	21395b	98	5536	27.2	-44 49	9.1	9.0	A5	3	0,3	39931b
49	2871	26.9	-14 7	9.9	11.0	K2	1	..	21395b	99	5237	27.2	-46 49	9.2	9.0	Ao	2	..	39931b
50	2629	26.9	-23 3	7.65	7.6	A2	6	..	13323b	100	1280	27.2	-61 9	8.5	9.3	F5	3	..	40221b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1020	27.2	-66 11	10.0	10.0	A	1	..	40074b	51	5217	27.5	-45 11	8.28	8.4	A2	6	2,3	39931b
2	1312	27.3	+54 29	7.16	8.16	Ko	6	..	38650i	52	5215	27.5	-45 35	8.2	8.0	Fo	5	..	39931b
3	1524	27.3	+46 47	8.8	9.8	Ko	3	0,1	4904m	53	586	27.5	-77 7	9.8	10.8	Ko	1	..	21453b
4	2147	27.3	+7 30	7.50	8.57	K2	3	..	37610i	54	350	27.5	-80 22	5.44	5.6	F2p	..	0,5 R	56,127
5	2704	27.3	-3 59	9.0	9.4	F5	1	..	21505b	55	1734	27.6	+45 44	7.8	7.9	A3	4	1,9	38336i
6	2700	27.3	-8 19	9.2	9.5	F2	3	E	21395b	56	2104	27.6	+22 38	9.1	9.2	A5	3	0,3	38646i
7	2859	27.3	-9 26	9.9	11.1	K5	1	..	21395b	57	2203	27.6	+4 7	8.7	9.3	Go	5	..	19340b
8	2856	27.3	-10 24	7.71	8.27	Go	7	..	21395b	58	2857	27.6	-10 45	7.5	8.5	Ko	7	..	21395b
9	2888	27.3	-17 37	9.5	9.5	A	1	..	41239b	59	2931	27.6	-20 16	8.78	9.0	F5	3	..	41239b
10	2833	27.3	-21 20	9.2	9.1	Ao	2	..	41239b	60	7273	27.6	-25 32	10.6	10.7	A	1	..	13281b
11	2632	27.3	-22 53	8.0	9.1	K2	1	..	13323b	61	6682	27.6	-27 47	8.2	8.7	G5	4	..	13281b
12	7151	27.3	-26 15	10.2	10.4	Go	1	..	13281b	62	5754	27.6	-36 6	9.3	9.4	Ao	3	..	18436b
13	7369	27.3	-31 25	5.96	6.9	Fo	..	0,6 R	56,127	63	5151	27.6	-41 28	8.0	8.8	F2	6	..	39945b
14	5751	27.3	-35 16	5.96	7.0	Ko	8	..	18436b	64	2449	27.6	-52 51	9.7	9.8	A2	2	..	39868b
15	5539	27.3	-45 2	8.84	9.3	Ko	1	..	39931b	65	1246	27.6	-62 16	9.4	10.4	Ko	1	..	40096b
16	5238	27.3	-46 56	8.6	9.0	Ko	2	..	39931b	66	1245	27.6	-62 31	9.7	9.7	Ao	2	..	40096b
17	4764	27.3	-48 59	7.8	8.1	A2	4	0,5	39931b	67	837	27.6	-71 59	7.6	7.6	B9	5	..	22988b
18	2368	27.3	-54 48	7.66	8.6	Ma	4	..	39868b	68	587	27.6	-76 49	9.7	10.7	Ko	2	..	21453b
19	1281	27.3	-61 26	9.1	10.1	Ko	1	..	40096b	69	1132	27.7	+61 20	7.17	7.45	Fo	8	..	37517i
20	836	27.3	-71 13	8.8	8.9	A2	2	..	22988b	70	1914	27.7	+29 19	9.1	9.9	G5	1	..	37741i
21	1932	27.4	+43 19	9.6	10.6	Ko	1	..	4904m	71	2204	27.7	+4 42	9.35	9.91	Go	2	..	19340b
22	1998	27.4	+36 56	6.41	7.48	K2	..	2,6	56,86	72	2213	27.7	-0 19	8.83	9.90	K2	4	..	19340b
23	1913	27.4	+28 49	6.35	6.41	A2	10	..	37741i	73	2708	27.7	-18 58	5.70	5.76	A2	10	..	41239b
24	2187	27.4	+6 20	8.9	9.5	Go	2	..	19340b	74	7277	27.7	-25 9	9.85	9.9	Fo	3	..	13281b
25	2656	27.4	-11 51	8.8	9.8	Ko	3	..	21395b	75	7369	27.7	-28 36	8.1	8.3	Fo	5	..	13281b
26	2814	27.4	-16 27	9.0	10.1	K2	1	..	41239b	76	5364	27.7	-43 52	9.1	8.7	A2	3	..	39945b
27	2815	27.4	-16 57	8.7	9.2	F8	2	..	41239b	77	5548	27.7	-45 3	9.38	9.3	A2	2	..	39931b
28	2734	27.4	-19 42	9.2	9.4	A2	2	..	41239b	78	5002	27.7	-47 31	6.84	7.3	Fo	9	..	39931b
29	6477	27.4	-33 6	8.4	9.5	Ko	1	..	13047b	79	2094	27.7	-57 42	9.0	9.2	Go	2	..	38748b
30	6144	27.4	-33 36	8.7	9.8	Ko	1	..	13047b	80	743	27.8	+64 43	10.00	10.56	G	1	..	37517i
31	5740	27.4	-36 18	7.22	8.4	Ko	7	..	18436b	81	1848	27.8	+49 12	7.65	8.65	Ko	3	..	38240i
32	5652	27.4	-38 11	8.5	10.2	K2	2	..	18436b	82	1683	27.8	+47 20	6.43	6.57	A5	7	..	38240i
33	2440	27.4	-53 5	8.2	8.4	Go	2	..	39868b	83	1525	27.8	+46 29	8.7	9.7	Ko	5	0,3	4904m
34	2371	27.4	-54 10	9.3	9.3	B8	2	..	39868b	84	1735	27.8	+45 41	9.6	10.6	Ko	1	..	4904m
35	2255	27.4	-56 18	9.0	8.9	A2	3	..	39868b	85	1934	27.8	+43 44	8.9	10.1	K5	2	0,1	4904m
36	2090	27.4	-57 56	5.78	7.6	Ma	..	0,7	56,127	86	2261	27.8	+39 31	8.9	9.7	G5	2	..	37459i
37	1551	27.4	-58 8	9.0	9.0	Ao	2	..	38748b	87	2858	27.8	-10 43	9.2	10.3	K2	2	..	21395b
38	1282	27.4	-61 15	9.0	9.4	Ao	2	..	40096b	88	2874	27.8	-13 27	9.1	9.9	G5	2	..	21395b
39	358	27.5	+76 36	8.1	9.1	Ko	4	..	37714i	89	2826	27.8	-15 50	9.7	10.7	Ko	1	..	21395b
40	1222	27.5	+57 1	9.0	10.2	K5	1	..	38224i	90	2817	27.8	-17 0	9.5	10.1	Go	1	..	41239b
41	2191	27.5	+5 35	8.9	10.0	K2	3	..	19340b	91	7637	27.8	-30 10	9.1	10.1	Ko	1	..	13281b
42	2227	27.5	+3 24	8.9	9.9	Ko	2	..	19340b	92	7636	27.8	-30 40	10.4	9.8	A5	2	..	13281b
43	2217	27.5	+2 19	6.15	6.57	F5	10	..	19340b	93	7375	27.8	-31 49	7.9	8.3	A2	4	..	13047b
44	2320	27.5	+1 7	9.9	10.4	F8	2	..	19340b	94	6150	27.8	-33 10	9.1	9.2	G5	1	..	13047b
45	2273	27.5	-1 24	9.2	9.7	F8	4	..	19340b	95	5745	27.8	-36 26	8.4	9.1	Ko	3	..	18436b
46	2834	27.5	-7 18	9.0	10.0	Ko	4	0,3	22976b	96	5744	27.8	-36 36	10.4	9.6	A2	2	..	18436b
47	7157	27.5	-26 42	8.2	9.2	K2	3	..	13281b	97	2244	27.8	-55 12	8.72	8.9	G5	2	..	39868b
48	7372	27.5	-31 22	9.7	8.6	Ao	3	..	13047b	98	2262	27.8	-56 55	9.0	9.2	F5	2	..	40105b
49	5589	27.5	-39 51	8.2	9.1	G5	4	..	18436b	99	1555	27.8	-58 17	9.1	9.9	Ko	1	..	38748b
50	5545	27.5	-44 48	9.6	9.3	A2	3	2,3	39945b	100	1284	27.8	-61 22	8.1	9.6	K5	3	..	40221b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	952	m. 27.8	o ' -68 18	9.1	9.1	Ao	4	..	40074b	51	2118	m. 28.2	o ' +25 19	9.2	10.0	G5	2	..	38646i
2	464	27.9	+72 32	7.24	7.66	F5	6	..	37714i	52	2056	28.2	+12 32	9.4	10.2	G5	1	..	37610i
3	1526	27.9	+45 59	9.5	10.5	Ko	2	..	4904m	53	2192	28.2	+ 5 7	9.9	10.5	Go	2	..	19340b
4	2220	27.9	+18 43	8.4	8.7	F2	3	..	37608i	54	2275	28.2	- 1 53	9.2	9.5	F2	4	E	19340b
5	2200	27.9	+ 9 37	8.3	8.4	A3	3	..	37610i	55	2702	28.2	- 8 52	9.2	10.4	K5	1	..	21395b
6	2205	27.9	+ 4 37	8.40	8.96	Go	6	..	19340b	56	2861	28.2	- 9 50	9.1	9.5	F5	3	..	21395b
7	2274	27.9	- 1 52	8.9	10.0	K2	4	..	19340b	57	2660	28.2	-11 43	10.4	10.4	Ao	2	..	21395b
8	2859	27.9	-10 27	10.4	10.9	F8	1	..	21395b	58	2659	28.2	-12 9	8.6	8.9	Fo	7	..	21395b
9	7165	27.9	-26 29	9.2	9.3	Ao	4	..	13281b	59	2658	28.2	-12 12	9.2	9.8	G	2	..	21395b
10	7373	27.9	-28 11	var.	var.	Fo	9	R	13281b	60	2926	28.2	-13 4	6.21	7.39	K5	9	..	21395b
11	6482	27.9	-33 0	8.8	8.9	G5	2	..	13047b	61	2876	28.2	-13 34	7.11	7.89	G5	8	..	21395b
12	5850	27.9	-37 28	9.0	10.2	Ko	1	..	18436b	62	5221	28.2	-45 22	9.0	8.7	Ao	4	..	39931b
13	5665	27.9	-38 57	8.7	9.7	Ko	3	..	18436b	63	5254	28.2	-46 56	9.0	8.6	A3	3	..	39931b
14	5154	27.9	-42 4	8.7	9.7	Ko	2	..	39945b	64	4230	28.2	-50 49	8.3	8.6	A5	6	..	39868b
15	4223	27.9	-50 55	9.6	8.9	Ao	4	..	39868b	65	3902	28.2	-51 30	9.0	9.6	Ko	2	..	39868b
16	1249	27.9	-63 4	8.8	10.0	K5	1	..	40221b	66	3901	28.2	-52 3	10.2	9.8	A2	1	..	39868b
17	516	27.9	-77 15	8.7	10.1	Ma	5	..	21453b	67	2467	28.2	-52 41	9.3	9.3	Ao	2	..	39868b
18	79	28.0	+87 34	8.7	9.7	Ko	3	..	37793i	68	2270	28.2	-56 36	3.04	4.22	K5	..	5, R	28,203
19	403	28.0	+74 47	7.72	7.86	A5	5	..	37714i	69	1878	28.3	+43 50	10.3	10.8	F8	1	..	4904m
20	567	28.0	+70 5	7.12	7.40	Fo	7	..	37706i	70	2104	28.3	+23 53	6.43	7.61	K5	7	..	37608i
21	1402	28.0	+52 30	4.65	4.65	Ao	..	..	1746c	71	2193	28.3	+ 5 9	9.2	10.3	K2	1	..	19340b
22	1403	28.0	+51 51	9.3	10.1	G5	1	..	38650i	72	2207	28.3	+ 4 15	8.6	9.0	F5	6	..	19340b
23	2264	28.0	+39 34	8.5	9.5	Ko	2	..	37459i	73	2707	28.3	- 3 58	8.4	9.2	G5	2	..	21505b
24	2226	28.0	+19 10	7.9	8.9	Ko	4	..	37608i	74	2939	28.3	- 6 45	6.39	7.39	Ko	8	..	22976b
25	2875	28.0	-13 34	9.7	10.0	Fo	2	..	21395b	75	2863	28.3	- 9 41	8.4	9.2	G5	4	..	21395b
26	2893	28.0	-17 18	9.2	10.2	Ko	1	..	41239b	76	2878	28.3	-14 2	9.2	9.5	F2	3	..	21395b
27	5667	28.0	-38 30	7.54	7.6	B9	7	..	18436b	77	2838	28.3	-21 19	9.7	9.3	Ao	1	..	41239b
28	5599	28.0	-39 17	8.5	9.4	K2	3	..	18436b	78	7175	28.3	-26 59	7.6	9.2	Ma	5	..	13281b
29	5282	28.0	-40 58	8.7	9.1	F8	3	..	39945b	79	6695	28.3	-28 0	10.9	11.0	Ao	2	..	13281b
30	5368	28.0	-43 35	9.4	9.0	F5	3	..	39945b	80	5856	28.3	-38 0	9.4	9.4	Ao	3	..	18436b
31	5251	28.0	-46 50	9.1	8.6	Ao	3	..	39931b	81	5223	28.3	-46 4	9.1	9.3	A3	3	..	39931b
32	826	28.0	-72 31	9.1	9.2	A3	2	..	40074b	82	2256	28.3	-56 0	8.5	8.9	F8	3	..	39868b
33	604	28.0	-73 42	9.8	9.8	Ao	2	..	21453b	83	1408	28.3	-60 1	7.92	9.0	Ko	5	..	38748b
34	352	28.0	-80 41	8.66	9.7	Ko	2	o, I	20869b	84	1022	28.3	-66 46	8.1	9.1	Ko	5	..	40074b
35	2004	28.1	+36 51	4.62	5.40	G5	..	o, 8	56,86	85	470	28.4	+73 32	6.43	6.71	Fo	9	..	37714i
36	2022	28.1	+35 14	7.87	8.65	G5	2	E	37345i	86	1659	28.4	+50 42	9.0	10.1	K2	1	..	38650i
37	1879	28.1	+33 27	8.3	9.4	K2	2	..	37741i	87	1879	28.4	+44 14	10.3	10.3	A	1	..	4904m
38	2836	28.1	- 8 4	6.30	7.30	Ko	9	..	21395b	88	2834	28.4	- 6 4	8.8	9.1	F2	4	..	22976b
39	2924	28.1	-12 49	9.2	10.4	K5	2	..	21395b	89	2837	28.4	- 7 41	9.7	10.3	Go	2	..	22976b
40	7284	28.1	-25 59	8.1	8.6	F8	6	o, 3	13281b	90	2841	28.4	-22 5	8.0	8.1	F5	5	..	13323b
41	5764	28.1	-35 35	8.0	9.1	Ko	3	..	18436b	91	8487	28.4	-23 22	8.5	8.3	Ao	4	..	13323b
42	5252	28.1	-47 3	9.2	9.0	F8	1	..	39931b	92	6157	28.4	-33 34	9.6	8.9	Ao	3	..	13047b
43	4467	28.1	-49 20	10.0	9.5	Ao	1	..	39931b	93	5858	28.4	-37 53	8.0	8.2	Ao	5	..	18436b
44	2513	28.1	-53 22	7.7	7.7	B9	6	..	39868b	94	5284	28.4	-40 13	5.36	7.2	Ko	..	5, 6	28,203
45	2249	28.1	-55 8	8.32	9.0	G5	3	..	39868b	95	5007	28.4	-47 45	7.6	8.3	Ko	5	..	39931b
46	1133	28.1	-63 39	8.3	9.7	Mb	2	..	40221b	96	4473	28.4	-49 35	10.5	9.5	Ao	1	..	39931b
47	1074	28.1	-69 15	8.9	10.3	Ma	1	..	21452b	97	1561	28.4	-58 59	9.4	10.4	Ko	1	..	38748b
48	595	28.1	-74 56	9.1	10.1	Ko	1	..	21453b	98	1409	28.4	-59 28	8.9	9.9	Ko	1	..	38748b
49	1779	28.2	+27 48	8.1	8.5	F5	6	..	37741i	99	1287	28.4	-61 31	8.6	9.4	Ko	3	..	40221b
50	1780	28.2	+27 15	8.5	9.5	Ko	2	..	37741i	100	584	28.4	-75 42	9.0	9.8	G5	3	..	21453b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
I	386	28.5	+75 39	6.66	7.66	Ko	7	..	37714i	51	1412	28.8	-59 45	8.4	9.7	K5	2	..	38748b
2	723	28.5	+64 50	8.40	9.18	G5	3	..	37517i	52	518	28.8	-77 19	9.5	10.7	K5	1	..	21453b
3	1134	28.5	+61 40	8.1	8.5	F5	3	3,3	38224i	53	80	28.9	+86 54	8.7	9.7	Ko	2	..	37546i
4	2112	28.5	+23 6	10.2	11.2	Ko	1	..	38646i	54	279	28.9	+82 1	9.0	9.6	G	2	..	37493i
5	2189	28.5	+6 58	8.9	9.4	F8	3	..	1934ob	55	2003	28.9	+31 28	8.5	8.6	A5	3	..	37741i
6	2927	28.5	-12 45	8.6	8.6	Ao	7	..	21395b	56	2228	28.9	+18 51	8.3	9.4	K2	2	..	37608i
7	2881	28.5	-14 27	10.6	11.1	F8	2	..	21395b	57	2869	28.9	-9 54	8.8	9.4	Go	4	..	21395b
8	2829	28.5	-15 13	10.1	10.1	Ao	2	..	21395b	58	6498	28.9	-32 38	8.0	9.2	K5	2	..	13047b
9	6699	28.5	-27 14	7.7	8.0	A5	7	..	13281b	59	5975	28.9	-34 52	9.1	9.7	A5	2	..	18436b
10	7385	28.5	-28 29	9.7	10.4	A5	2	..	13281b	60	5864	28.9	-37 43	8.4	8.2	Ao	5	..	18436b
11	5288	28.5	-40 45	7.9	8.2	G5	5	..	39945b	61	5165	28.9	-41 35	9.3	9.7	F5	2	..	39945b
12	4778	28.5	-48 58	7.8	8.7	G5	3	..	39931b	62	4785	28.9	-48 26	10.5	9.6	A2	1	..	39931b
13	2102	28.5	-57 59	9.0	9.5	Ao	2	..	38748b	63	2479	28.9	-52 20	10.1	10.1	Ao	1	..	39868b
14	1450	28.5	-60 49	9.9	9.9	Ao	2	..	40096b	64	2282	28.9	-56 33	7.2	7.2	B8	6	..	39868b
15	956	28.5	-68 33	8.7	9.8	K2	1	..	40074b	65	1112	28.9	-65 36	8.3	9.4	K2	3	..	40074b
16	356	28.5	-80 18	9.2	10.2	Ko	4	..	21453b	66	1393	29.0	+56 0	9.6	10.6	Ko	2	..	38224i
17	308	28.6	+81 7	9.1	9.1	Ao	3	..	37493i	67	2225	29.0	+40 26	8.7	9.3	Go	3	..	37459i
18	314	28.6	+77 50	9.0	10.0	K	2	..	37714i	68	2223	29.0	+18 24	8.6	8.9	Fo	4	..	37608i
19	851	28.6	+63 14	7.28	7.56	Fo	7	..	37517i	69	2928	29.0	-12 29	10.1	10.5	F5	1	..	21395b
20	2276	28.6	-2 7	8.87	8.87	Ao	5	E	1934ob	70	2884	29.0	-13 56	9.5	10.3	G5	3	..	21395b
21	2860	28.6	-10 30	9.7	10.0	F2	2	..	21395b	71	2884	29.0	-14 16	10.1	10.7	G	1	..	21395b
22	2714	28.6	-18 27	8.7	8.8	A5	3	..	41239b	72	2828	29.0	-16 21	9.2	9.7	F8	2	..	41239b
23	2937	28.6	-20 17	8.58	9.0	A5	4	..	41239b	73	7396	29.0	-31 49	8.9	8.9	Ao	2	..	13047b
24	2938	28.6	-20 57	6.70	6.7	Ao	8	..	41239b	74	5778	29.0	-35 58	7.6	7.8	Ao	8	..	18436b
25	7184	28.6	-26 39	9.4	10.1	Ao	2	..	13281b	75	5266	29.0	-46 7	10.9	9.8	Ao	1	..	39931b
26	5757	28.6	-36 47	8.0	8.2	Fo	5	..	18436b	76	5267	29.0	-46 45	10.5	10.0	Go	1	..	39931b
27	5162	28.6	-41 49	8.5	9.4	G5	3	..	39945b	77	4787	29.0	-49 4	9.2	9.5	Go	2	..	39931b
28	5375	28.6	-43 11	10.0	9.3	Ao	2	..	39945b	78	4242	29.0	-50 32	10.0	9.2	Ao	3	..	39868b
29	5259	28.6	-46 43	7.8	7.7	Fo	6	..	39931b	79	2106	29.0	-57 15	8.8	9.3	Go	2	..	40105b
30	1410	28.6	-59 9	9.1	9.9	G5	1	..	38748b	80	2226	29.1	+40 24	6.56	6.90	F2	8	..	37459b
31	1111	28.6	-65 45	8.4	9.4	Ko	3	..	40074b	81	2660	29.1	-4 39	9.2	10.3	K2	2	..	22976b
32	1023	28.6	-66 51	9.1	10.2	K2	1	..	40074b	82	2871	29.1	-10 7	8.66	9.73	K2	3	..	21395b
33	1880	28.7	+44 6	8.5	9.3	G5	4	0,2	4904m	83	7655	29.1	-30 14	9.2	10.1	Ko	1	..	13281b
34	2936	28.7	-20 41	5.16	6.2	Ko	9	..	41239b	84	5764	29.1	-36 33	10.0	9.9	Ao	1	..	18436b
35	8490	28.7	-23 42	9.4	9.0	Go	1	..	13323b	85	5676	29.1	-38 42	6.41	7.8	F2	8	..	18436b
36	7387	28.7	-28 23	9.1	9.5	A3	2	..	13281b	86	5381	29.1	-42 21	9.1	10.2	K2	2	..	39945b
37	2475	28.7	-53 6	7.6	7.7	B8	6	..	39868b	87	5380	29.1	-42 48	10.2	10.2	A2	2	..	39945b
38	1453	28.7	-60 55	9.3	9.9	Go	2	..	40096b	88	5017	29.1	-47 51	10.5	9.0	Ao	2	..	39931b
39	1341	28.8	+55 8	8.7	9.7	Ko	1	..	38650i	89	2277	29.1	-55 34	8.2	8.3	F5	5	..	39868b
40	1350	28.8	+53 45	8.3	8.6	F2	4	..	38650i	90	1024	29.1	-66 55	8.6	8.6	B9	5	..	40074b
41	2224	28.8	+40 4	4.99	5.99	Ko	..	5,10	56,86	91	1351	29.2	+53 45	8.5	8.9	F5	3	..	38650i
42	2002	28.8	+31 0	8.7	9.3	Go	2	..	37741i	92	1850	29.2	+48 56	6.92	7.34	F5	5	..	38240i
43	2840	28.8	-7 16	9.9	10.2	Fo	2	..	22976b	93	2105	29.2	+16 54	8.7	9.3	G	3	E	37608i
44	2862	28.8	-10 57	9.2	10.2	Ko	1	..	21395b	94	2325	29.2	+0 50	10.04	10.60	Go	2	..	1934ob
45	2883	28.8	-15 0	9.0	10.0	Ko	3	..	21395b	95	2924	29.2	-2 42	8.4	8.9	F8	3	..	21505b
46	2824	28.8	-16 56	9.2	9.5	F2	3	..	41239b	96	2943	29.2	-6 36	9.5	10.6	K2	1	..	22976b
47	2645	28.8	-22 26	5.84	5.84	Ao	..	0,7-	56,127	97	7303	29.2	-25 18	8.7	10.4	K5	2	..	13281b
48	5261	28.8	-47 4	10.5	10.4	G5	1	..	39931b	98	5679	29.2	-38 12	7.03	7.9	Go	7	..	18436b
49	4477	28.8	-50 4	9.4	9.3	Ao	2	..	39931b	99	5235	29.2	-45 19	9.8	9.3	A2	3	..	39931b
50	1413	28.8	-59 36	9.8	9.9	A2	1	..	38748b	100	2537	29.2	-53 49	8.0	9.3	K5	3	..	39868b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1089	29.2	-67 45	8.5	8.8	Fo	5	..	40074b	51	5276	29.5	-46 52	9.4	9.0	Ao	4	..	39931b
2	1771	29.3	+28 22	8.3	9.3	Ko	2	..	37741i	52	4489	29.5	-49 15	10.2	9.5	Fo	1	..	39931b
3	2662	29.3	- 5 10	9.10	10.10	Ko	1	..	22976b	53	3921	29.5	-51 27	9.6	9.2	Ao	3	..	39868b
4	2664	29.3	-11 14	9.2	9.3	A2	5	..	21395b	54	2494	29.5	-52 23	9.7	9.8	A2	1	..	39868b
5	2931	29.3	-12 26	9.9	10.3	F5	3	..	21395b	55	2544	29.5	-53 36	8.2	9.3	Ma	2	..	39868b
6	2833	29.3	-15 15	8.81	9.88	K2	4	..	21395b	56	2417	29.5	-54 24	7.2	7.4	A2	2	2,8	42951b
7	2717	29.3	-18 28	9.5	9.5	A	1	..	41239b	57	2419	29.5	-54 46	9.8	9.8	Ao	1	..	39868b
8	2718	29.3	-18 33	9.2	9.3	A5	1	..	41239b	58	1025	29.5	-66 17	6.34	7.9	Ko	8	..	40074b
9	2744	29.3	-19 27	8.6	8.5	G5	2	..	41239b	59	519	29.5	-77 49	9.8	10.1	F2	8	..	21453b
10	5301	29.3	-40 18	10.4	9.7	Ao	2	..	39945b	60	359	29.6	+76 41	9.0	9.8	G5	2	..	37714i
11	4485	29.3	-49 34	8.5	8.6	B9	5	0,5	39868b	61	1224	29.6	+57 25	6.88	6.94	A2	8	..	38224i
12	2489	29.3	-52 56	8.4	8.4	B8	4	..	39868b	62	1314	29.6	+54 34	7.81	8.31	F8	5	..	38650i
13	587	29.3	-76 4	9.7	10.8	K2	1	..	21453b	63	1787	29.6	+47 59	9.1	9.9	G5	2	..	38336i
14	507	29.4	+71 4	9.6	10.2	Go	2	..	37706i	64	2007	29.6	+31 31	7.96	8.38	F5	5	..	37741i
15	1736	29.4	+45 39	9.6	10.4	G5	2	..	4904m	65	2117	29.6	+13 6	6.66	6.64	B9	7	..	37610i
16	1881	29.4	+44 19	10.0	11.0	K	1	..	4904m	66	2060	29.6	+11 35	8.9	9.5	G	2	..	37610i
17	1974	29.4	+26 38	7.8	7.8	B9	8	..	37741i	67	2198	29.6	+ 5 42	8.7	9.7	Ko	3	..	19340b
18	2115	29.4	+13 44	9.2	9.7	F8	2	R	37610i	68	2221	29.6	+ 2 3	9.9	10.0	A2	1	..	19340b
19	2243	29.4	+ 8 38	8.1	9.5	Ma	3	..	37610i	69	2216	29.6	- 0 57	8.3	9.5	K5	4	..	19340b
20	2197	29.4	+ 5 25	8.9	9.5	Go	3	..	19340b	70	2840	29.6	- 5 28	5.70	6.70	Ko	10	R	22976b
21	2210	29.4	+ 4 0	8.5	9.0	F8	5	..	19340b	71	2873	29.6	- 9 31	8.4	8.4	Ao	7	..	21395b
22	2713	29.4	- 3 20	8.2	8.3	A3	4	..	21505b	72	5775	29.6	-36 29	9.1	10.6	K2	1	..	18436b
23	2665	29.4	-11 22	9.9	10.0	A5	2	..	21395b	73	4798	29.6	-48 40	9.4	9.5	A5	2	..	39931b
24	2886	29.4	-14 56	9.9	10.9	Ko	1	..	21395b	74	2548	29.6	-54 1	9.8	9.8	Ao	1	..	39868b
25	2720	29.4	-18 40	9.0	10.1	K2	1	..	41239b	75	2423	29.6	-54 10	8.0	7.7	Ao	5	..	39868b
26	5783	29.4	-35 15	9.44	9.6	F5	2	..	18436b	76	2296	29.6	-57 5	7.2	7.3	Ao	4	..	39868b
27	5680	29.4	-38 56	9.0	9.4	G5	3	..	18436b	77	2112	29.6	-57 15	8.6	9.8	K5	2	..	40105b
28	5386	29.4	-42 31	10.2	10.3	A5	1	..	39945b	78	589	29.6	-77 4	9.6	10.4	G5	2	..	21453b
29	5573	29.4	-44 46	var.	var.	Ao	2	3,7 R	35949b	79	520	29.6	-77 49	9.8	10.1	F2	6	..	21453b
30	5274	29.4	-46 20	9.6	9.3	B	2	..	39931b	80	415	29.6	-79 24	9.4	10.2	G5	5	..	21453b
31	4251	29.4	-50 58	9.6	9.6	A2	2	..	39868b	81	727	29.7	+64 51	8.25	8.75	F8	4	..	37517i
32	2293	29.4	-56 42	9.1	9.3	Ko	2	..	40105b	82	1738	29.7	+45 1	10.3	11.3	Ko	1	..	4904m
33	2110	29.4	-57 31	8.3	7.4	B9	6	..	38748b	83	1882	29.7	+44 21	10.3	10.4	A3	1	..	4904m
34	1455	29.4	-60 48	6.9	7.5	Ao	7	..	40221b	84	1883	29.7	+44 8	10.3	11.1	G5	1	..	4904m
35	1135	29.4	-63 48	7.7	8.0	Fo	8	..	40221b	85	1979	29.7	+36 16	5.48	6.48	Ko	..	..	56,86
36	608	29.4	-73 13	7.8	7.8	Ao	7	..	22988b	86	2026	29.7	+35 12	7.62	8.18	Go	2	E	37345i
37	596	29.4	-74 43	8.8	8.8	Ao	5	..	21453b	87	2326	29.7	+ 1 39	8.9	9.9	Ko	3	..	19340b
38	588	29.4	-76 8	9.9	10.7	G5	1	..	21453b	88	2327	29.7	+ 1 6	8.3	9.1	G5	7	..	19340b
39	568	29.5	+70 43	6.84	7.18	F2	8	..	37706i	89	2888	29.7	-13 26	8.6	8.6	Ao	6	..	21395b
40	2021	29.5	+10 8	8.3	8.9	Go	2	..	37610i	90	2888	29.7	-14 36	9.2	9.3	A2	6	..	21395b
41	2531	29.5	- 0 3	8.48	9.55	K2	4	..	19340b	91	2722	29.7	-18 18	8.0	8.1	A2	5	..	41239b
42	2925	29.5	- 3 3	7.18	7.96	G5	5	..	21505b	92	7311	29.7	-25 57	10.2	10.4	A	1	..	13281b
43	2866	29.5	-10 36	9.5	10.1	Go	3	..	21395b	93	7579	29.7	-29 18	8.2	8.6	A2	7	..	13281b
44	2667	29.5	-11 47	9.2	9.7	F8	3	..	21395b	94	7667	29.7	-30 25	8.1	9.2	Ko	2	0,2	13281b
45	2721	29.5	-18 35	9.2	10.2	Ko	2	..	41239b	95	7407	29.7	-31 32	8.1	8.3	F5	5	..	13047b
46	2941	29.5	-20 38	9.0	10.2	Ko	1	..	41239b	96	6510	29.7	-32 31	8.0	8.6	A2	5	..	13047b
47	2942	29.5	-20 49	9.2	9.9	K2	1	R	41239b	97	5876	29.7	-37 25	10.0	9.6	Ao	2	..	18436b
48	2942	29.5	-20 49	9.2	10.2	K2	1	R	41239b	98	5172	29.7	-41 47	10.0	9.7	Fo	2	..	39945b
49	7400	29.5	-28 21	8.7	9.2	F8	4	..	13281b	99	5393	29.7	-42 9	8.9	9.7	K2	3	..	39945b
50	5574	29.5	-45 4	var.	var.	Mb	4	R	39931b	100	4491	29.7	-49 19	10.0	9.2	Ao	2	..	39931b

THE HENRY DRAPER CATALOGUE.

82900

9^h 29^m.7

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1253	29.7	^{m.} -62 21	var.	var.	Md	..	0,8 R	28,203	51	471	^{m.} 30.1 +73 11	6.98	7.06	A3	7	..	37714i	
2	1136	29.7	-63 33	8.0	9.2	F2	2	..	40221b	52	..	30.1 +45 21	..	..	G5	1	..	4904m
3	1090	29.7	-68 4	8.6	9.8	K5	1	..	40074b	53	2115	30.1 +14 35	9.2	10.2	Ko	2	..	37610i	
4	843	29.7	-71 9	8.8	9.1	F2	2	..	22988b	54	2231	30.1 + 2 52	9.2	9.6	F5	2	..	19340b	
5	1935	29.8	+43 25	8.7	9.5	G5	4	5,2	4904m	55	2328	30.1 + 0 58	9.2	9.7	F8	2	..	19340b	
6	2113	29.8	+14 31	8.3	8.3	B9	7	..	37610i	56	..	30.1 + 0 28	..	..	F5	2	..	19340b
7	2118	29.8	+13 0	8.7	9.1	F5	1	..	37610i	57	2666	30.1 - 4 27	7.44	8.51	K2	6	..	22976b	
8	2200	29.8	+ 5 13	9.2	9.3	A2	4	..	19340b	58	2667	30.1 - 4 56	7.14	8.14	Ko	7	..	22976b	
9	2199	29.8	+ 4 51	9.61	10.17	Go	2	..	19340b	59	2876	30.1 - 9 34	9.1	9.5	F5	4	..	21395b	
10	2664	29.8	- 4 43	9.7	10.0	Fo	1	..	22976b	60	2948	30.1 -20 39	8.6	8.7	G5	4	..	41239b	
11	7403	29.8	-28 7	9.1	10.1	Ko	1	..	13281b	61	7214	30.1 -26 44	9.7	10.4	Ko	1	..	13281b	
12	7582	29.8	-29 28	9.4	9.5	Ao	4	..	13281b	62	5688	30.1 -38 16	10.4	10.3	Go	1	..	18436b	
13	7409	29.8	-31 35	8.1	8.6	Ko	3	..	13047b	63	5690	30.1 -38 37	10.7	10.3	Ao	1	..	18436b	
14	5877	29.8	-37 21	9.1	10.1	K	1	..	18436b	64	5311	30.1 -40 12	10.0	10.0	A2	2	..	39945b	
15	5878	29.8	-37 57	9.4	9.3	Ko	1	..	18436b	65	4502	30.1 -49 19	7.6	8.3	G5	4	..	39931b	
16	5024	29.8	-47 28	8.4	9.3	Ko	3	..	39931b	66	3935	30.1 -51 39	9.6	9.5	Go	2	..	39868b	
17	5025	29.8	-47 38	10.0	9.6	A2	2	..	39931b	67	..	30.1 -66 9	..	..	Ma	1	..	40074b
18	3927	29.8	-51 53	9.2	9.0	F2	3	..	39868b	68	1027	30.1 -66 53	9.2	9.5	Fo	2	..	40074b	
19	2300	29.8	-56 39	7.4	7.2	B5	6	..	39868b	69	1198	30.2 +60 39	6.56	7.34	G5	7	0,8	38224i	
20	1414	29.8	-60 5	7.32	7.9	Go	7	..	38748b	70	1246	30.2 +58 58	8.79	9.79	Ko	2	..	38224i	
21	1461	29.8	-60 54	10.0	10.1	A2	1	..	40096b	71	2202	30.2 + 5 5	8.7	9.7	Ko	4	..	19340b	
22	1739	29.9	+45 33	10.0	10.8	G5	1	..	4904m	72	2841	30.2 - 5 24	9.2	9.8	Go	4	..	22976b	
23	2212	29.9	+ 4 29	8.5	9.7	K5	4	..	19340b	73	2947	30.2 - 6 38	8.8	9.6	G5	3	..	22976b	
24	2665	29.9	- 4 43	9.5	10.5	Ko	1	..	22976b	74	2672	30.2 -11 39	10.4	11.0	G	1	..	21395b	
25	2945	29.9	- 7 5	8.4	8.8	F5	6	..	22976b	75	2724	30.2 -18 57	9.2	9.8	G	1	..	41239b	
26	2889	29.9	-13 58	10.1	11.3	K5	1	..	21395b	76	2749	30.2 -19 46	9.5	10.0	K2	1	..	41239b	
27	2837	29.9	-15 56	7.8	9.2	Ma	3	..	21395b	77	8520	30.2 -23 45	9.2	9.0	Ko	2	5,2	13145b	
28	8517	29.9	-24 6	7.6	7.4	A3	6	..	13323b	78	8226	30.2 -24 42	8.3	8.9	G5	3	..	13323b	
29	7315	29.9	-26 5	10.4	9.8	Ao	2	..	13281b	79	7322	30.2 -25 28	8.2	9.9	G5	2	..	13281b	
30	5790	29.9	-35 42	8.0	7.8	Ao	6	..	18436b	80	6175	30.2 -33 14	9.6	8.9	F5	1	..	13047b	
31	3929	29.9	-51 42	9.6	9.6	K5	1	..	39868b	81	6174	30.2 -33 17	8.4	8.7	Fo	4	..	13047b	
32	2508	29.9	-52 24	8.0	8.0	Ao	6	..	39868b	82	5786	30.2 -36 23	7.65	8.7	K2	3	..	18436b	
33	2512	29.9	-53 1	9.0	9.0	B8	2	..	39868b	83	5884	30.2 -37 39	8.7	8.8	A3	4	..	18436b	
34	1570	29.9	-58 55	8.9	9.9	K2	2	..	38748b	84	4802	30.2 -48 34	5.35	5.18	B3	..	5,7	28,203	
35	1113	29.9	-66 6	9.2	9.5	Fo	2	..	40074b	85	4803	30.2 -48 43	8.9	9.2	Go	2	..	39931b	
36	1091	29.9	-67 54	8.8	10.0	K5	1	..	40074b	86	4504	30.2 -49 17	7.8	8.6	G5	3	..	39931b	
37	844	29.9	-71 20	8.7	9.7	Ko	1	..	22988b	87	2120	30.2 -57 27	7.3	8.6	Ma	3	..	38748b	
38	1200	30.0	+58 33	9.3	10.1	G5	2	..	38224i	88	2122	30.2 -57 31	6.9	6.5	B9	8	..	38748b	
39	2052	30.0	+38 0	8.3	9.1	G5	3	..	38241i	89	1042	30.2 -65 3	8.44	8.8	A5	2	..	40221b	
40	1879	30.0	+29 53	8.81	9.59	G5	1	..	37741i	90	..	30.2 -66 10	..	..	Ma	1	0,1	40096b
41	2842	30.0	- 7 45	9.5	9.8	Fo	2	..	22976b	91	295	30.3 +80 34	8.8	9.2	F5	3	..	37493i	
42	2869	30.0	-10 56	9.9	10.9	Ko	2	..	21395b	92	526	30.3 +69 45	8.04	8.32	Fo	5	..	37706i	
43	2670	30.0	-11 41	6.73	7.29	Go	10	..	21395b	93	1773	30.3 +28 5	9.5	9.6	A5	1	..	37741i	
44	2668	30.0	-12 10	8.6	8.6	Ao	6	..	21395b	94	2213	30.3 + 4 21	7.9	8.5	Go	8	..	19340b	
45	2889	30.0	-15 0	10.6	10.9	Fo	1	..	21395b	95	2232	30.3 + 3 4	9.2	9.3	A5	3	..	19340b	
46	2847	30.0	-22 4	9.0	9.3	Ko	2	..	13145b	96	2281	30.3 - 1 42	8.7	9.8	K2	2	E	19340b	
47	6722	30.0	-27 45	8.3	10.4	Ko	1	..	13281b	97	2928	30.3 - 2 49	8.4	8.5	A5	3	..	21505b	
48	7585	30.0	-29 28	9.2	9.2	Ao	2	..	13281b	98	2838	30.3 -15 34	9.2	10.3	K2	1	..	21395b	
49	5782	30.0	-36 42	9.4	9.9	Go	1	..	18436b	99	7218	30.3 -26 38	9.1	9.8	F5	3	..	13281b	
50	2431	30.0	-54 49	9.5	9.5	Ao	2	..	39868b	100	5316	30.3 -40 37	8.0	9.7	Ma	2	..	39945b	

	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5402	30.3	m. -42 11	9.4	10.3	K2	1	..	..	39945b-51	2654	30.7	m. -22 35	8.8	9.3	G5	2	..	..	13145b
2	2520	30.3	-52 54	9.1	8.7	B8	3	..	..	39868b-52	2656	30.7	-23 0	9.1	9.0	Go	2	2,2	..	13323b
3	316	30.4	+79 16	8.02	8.16	A5	5	..	..	37493i-53	8529	30.7	-23 24	9.1	8.4	Go	2	..	..	13323b
4	2116	30.4	+23 38	7.50	8.50	Ko	5	..	..	38046i-54	5790	30.7	-36 49	8.7	8.8	Go	3	..	..	18436b
5	2340	30.4	+20 29	7.19	8.19	Ko	7	..	..	37608i-55	5788	30.7	-36 50	8.8	9.0	Go	3	..	..	18436b
6	2026	30.4	+10 19	8.5	9.0	F8	2	..	..	37610i-56	4806	30.7	-48 51	9.6	9.8	Go	1	..	..	39931b
7	2843	30.4	-6 2	9.2	9.8	Go	3	..	..	22976b-57	4511	30.7	-49 48	10.2	9.3	Ao	1	..	..	39931b
8	2880	30.4	-9 52	9.5	10.5	Ko	2	..	..	21395b-58	4270	30.7	-50 49	5.16	4.99	B3	..	0,7 R	..	56,127
9	2673	30.4	-11 46	10.1	10.7	G	1	..	..	21395b-59	2535	30.7	-52 37	9.6	9.6	Ao	1	..	..	39868b
10	7594	30.4	-29 39	8.7	9.6	F2	2	..	..	13281b-60	2319	30.7	-56 43	8.4	8.9	B5	3	..	..	40105b
11	5787	30.4	-36 59	8.4	8.4	Ao	5	..	..	18436b-61	2128	30.7	-57 16	8.6	9.2	Ao	3	0,1	..	38748b
12	5693	30.4	-38 57	9.0	9.4	F5	3	..	..	18436b-62	1114	30.7	-65 52	9.1	9.5	F5	2	..	..	40074b
13	5318	30.4	-40 32	9.3	9.4	Go	2	..	..	39945b-63	913	30.7	-70 55	8.7	9.7	Ko	1	..	..	40074b
14	5317	30.4	-40 59	9.6	9.4	Ao	4	..	..	39945b-64	602	30.7	-74 20	8.0	8.5	F8	7	..	..	21453b
15	5183	30.4	-41 21	8.4	9.7	K2	2	..	..	39945b-65	213	30.8	+84 14	8.5	9.5	Ko	2	..	..	37546i
16	5589	30.4	-44 20	9.4	8.7	A3	3	..	..	39945b-66	1853	30.8	+49 44	8.32	8.74	F5	4	0,3	..	38336i
17	1043	30.4	-64 56	7.90	9.2	K5	3	..	..	40221b-67	1982	30.8	+36 3	7.20	7.62	F5	5	..	..	38241i
18	1078	30.4	-69 30	8.6	9.8	K5	2	..	..	40074b-68	1903	30.8	+32 34	8.7	9.5	G5	2	..	..	37741i
19	1079	30.4	-70 2	7.08	7.0	B8	8	..	..	22988b-69	2011	30.8	+31 37	5.74	7.09	Ma	8	..	..	37741i
20	577	30.5	+68 27	9.0	9.8	G5	1	..	..	37517i-70	2108	30.8	+17 41	8.1	9.1	Ko	3	..	..	37613i
21	728	30.5	+65 34	9.0	10.0	Ko	2	..	..	38654i-71	2119	30.8	+13 8	9.2	10.0	G5	1	..	..	37610i
22	1937	30.5	+43 40	9.6	10.2	G	1	..	..	4904m-72	2329	30.8	+1 43	8.9	9.7	G5	1	..	..	19340b
23	2077	30.5	+14 49	6.21	6.21	Ao	10	0,9	..	37610i-73	2220	30.8	-0 49	8.9	9.9	Ko	4	..	..	19340b
24	2233	30.5	+3 5	8.5	9.5	Ko	5	..	..	19340b-74	2894	30.8	-14 22	9.7	10.5	G5	2	..	..	21395b
25	2532	30.5	+0 3	9.2	10.3	K2	5	..	..	19340b-75	2841	30.8	-15 38	9.0	10.0	Ko	3	..	..	21395b
26	6727	30.5	-27 56	9.2	8.9	F5	3	..	..	13281b-76	2659	30.8	-22 45	8.8	9.3	Fo	3	5,2	..	13145b
27	5694	30.5	-39 0	8.7	8.5	A2	6	..	..	18436b-77	7599	30.8	-29 59	9.4	9.6	Ao	2	..	..	13281b
28	5639	30.5	-39 38	9.3	9.7	G5	2	..	..	39945b-78	6183	30.8	-33 56	7.24	7.2	B9	8	..	..	13047b
29	5638	30.5	-40 2	7.84	8.3	F8	6	..	..	39945b-79	5035	30.8	-47 47	10.2	10.1	A2	1	..	..	39931b
30	2566	30.5	-53 36	7.9	9.3	Ma	3	..	..	39868b-80	4271	30.8	-50 10	8.70	8.9	Ao	5	..	..	39868b
31	2313	30.5	-57 2	9.5	9.5	Ao	2	..	..	40105b-81	1572	30.8	-59 0	9.9	9.9	A	1	..	..	38748b
32	2126	30.5	-57 57	8.1	8.0	B9	6	..	..	38748b-82	1293	30.8	-61 32	9.6	9.6	B9	2	..	..	40096b
33	609	30.5	-73 43	8.1	8.4	Fo	5	..	..	22988b-83	2232	30.9	+19 21	8.7	9.5	G5	3	..	..	37608i
34	280	30.6	+82 3	8.7	9.7	Ko	2	..	..	37493i-84	2067	30.9	+11 53	7.9	8.7	G5	2	..	..	37610i
35	360	30.6	+75 53	7.52	8.52	Ko	5	..	..	37714i-85	2204	30.9	+4 58	7.71	8.78	K2	7	..	..	19340b
36	1981	30.6	+36 9	8.1	8.1	Ao	5	..	..	38241i-86	2674	30.9	-11 30	7.8	8.8	Ko	6	..	..	21395b
37	1774	30.6	+28 47	9.5	10.1	G	1	..	..	37741i-87	2658	30.9	-22 14	7.03	8.2	Ko	5	..	..	13323b
38	2950	30.6	-6 21	9.2	9.7	F8	2	..	..	22976b-88	7686	30.9	-31 0	9.7	9.8	K2	2	3,2	..	13281b
39	2839	30.6	-15 50	9.5	10.7	K5	1	..	..	21395b-89	5190	30.9	-41 39	10.7	10.2	A3	1	..	..	39945b
40	7229	30.6	-26 55	9.4	9.8	A5	2	..	..	13281b-90	5596	30.9	-44 23	7.1	7.5	B9	3	..	..	35949b
41	7417	30.6	-28 26	8.5	8.9	Ao	5	..	..	13281b-91	4807	30.9	-48 54	9.8	9.5	G	1	..	..	39931b
42	5321	30.6	-40 42	9.6	9.7	Ao	1	..	..	39945b-92	2445	30.9	-54 9	9.6	10.4	G5	1	..	..	39868b
43	2571	30.6	-53 12	8.4	8.0	Bo	3	..	..	39868b-93	847	30.9	-72 2	8.0	7.8	B3	5	..	..	22988b
44	603	30.6	-74 51	9.0	10.1	K2	2	..	..	21453b-94	836	30.9	-72 11	9.4	9.4	Ao	2	..	..	40074b
45	2223	30.7	+2 7	9.9	10.3	F5	1	..	..	19340b-95	835	30.9	-72 39	5.52	7.4	K2	8	R	..	22988b
46	2533	30.7	+0 39	7.69	8.69	Ko	3	..	..	21505b-96	611	30.9	-73 19	7.2	7.5	Fo	8	..	..	22988b
47	2843	30.7	-8 9	8.0	8.3	Fo	7	E	..	21395b-97	612	30.9	-73 43	8.1	8.4	F2	3	..	..	22988b
48	2893	30.7	-14 15	var.	var.	Md	..	R	..	56,201-98	1780	31.0	+28 13	7.07	8.07	Ko	6	..	..	37741i
49	2840	30.7	-16 2	9.2	9.6	F5	2	..	..	21395b-99	2063	31.0	+11 1	8.5	8.8	F2	2	..	..	37610i
50	2726	30.7	-19 7	9.0	9.3	Fo	3	41239b-100	2210	31.0	+9 15	9.2	9.2	A	2	37610i

THE HENRY DRAPER CATALOGUE.

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9^h 31^m.0

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2221	31.0	- 1 10	9.0	9.8	G5	4	..	19340b 51	5704	31.3	-38 27	7.8	9.4	K2	3	..	18436b	
2	2670	31.0	- 4 56	9.5	9.8	F2	3	..	22976b 52	5304	31.3	-46 35	8.2	8.7	Fo	4	..	39931b	
3	2675	31.0	-11 14	9.7	10.7	Ko	1	..	21395b 53	4276	31.3	-50 7	8.44	8.3	B5	7	..	39868b	
4	2728	31.0	-19 8	6.25	6.8	Ao	9	..	41239b 54	2592	31.3	-53 38	9.0	9.0	Ao	3	..	39868b	
5	2952	31.0	-20 34	9.2	9.3	Go	3	..	41239b 55	2448	31.3	-54 56	7.6	9.2	Ko	3	..	39868b	
6	7334	31.0	-25 38	9.5	10.4	Ko	1	..	13281b 56	2330	31.3	-56 24	8.6	8.9	A2	3	..	39868b	
7	7425	31.0	-31 59	9.4	9.5	K2	2	..	22915b 57	2139	31.3	-57 59	8.9	8.9	B8	3	..	38748b	
8	5803	31.0	-35 23	6.48	7.4	F5	8	..	18436b 58	1528	31.4	+46 22	7.9	8.3	F5	4	3,6	38336i	
9	5894	31.0	-37 39	8.4	9.1	Ko	2	..	18436b 59	2237	31.4	+ 3 2	10.6	11.1	F8	1	..	19340b	
10	5191	31.0	-41 41	8.8	10.2	Ko	2	..	39945b 60	2535	31.4	+ 0 2	9.9	10.3	F5	5	..	19340b	
11	1464	31.0	-60 11	7.06	8.4	Ko	6	..	40221b 61	2934	31.4	- 2 20	7.08	8.08	Ko	6	..	21505b	
12	1094	31.0	-67 12	8.2	8.5	F2	5	..	40074b 62	2677	31.4	-12 1	10.4	10.5	A2	2	..	21395b	
13	522	31.0	-78 7	9.6	10.6	Ko	2	..	21453b 63	2943	31.4	-12 26	9.2	10.2	Ko	3	..	21395b	
14	..	31.1	+78 18	var.	var.	Md	1	R	37493i 64	2836	31.4	-16 48	8.4	8.7	F2	4	..	41239b	
15	1202	31.1	+57 52	8.9	9.9	Ko	1	..	38224i 65	2753	31.4	-20 7	8.73	10.0	K5	1	..	41239b	
16	1741	31.1	+45 32	9.3	10.3	Ko	2	..	4904m 66	5650	31.4	-39 25	9.0	9.4	G5	3	..	39945b	
17	1938	31.1	+43 32	8.9	9.0	A5	3	2,2	4904m 67	5336	31.4	-41 2	8.4	8.3	A2	5	R	39945b	
18	2064	31.1	+11 18	7.6	7.6	Ao	5	..	37610i 68	5308	31.4	-46 58	10.0	10.1	A2	2	..	39931b	
19	2224	31.1	+ 1 55	9.9	10.7	G5	1	..	19340b 69	4815	31.4	-48 27	7.7	8.3	Fo	6	..	39931b	
20	2671	31.1	- 4 58	9.7	10.7	Ko	2	..	22976b 70	3953	31.4	-51 35	7.8	8.1	Fo	8	..	39868b	
21	2873	31.1	-10 24	9.2	10.0	G5	3	..	21395b 71	3954	31.4	-51 43	9.1	9.5	K2	2	..	39868b	
22	7240	31.1	-26 15	10.2	11.0	Ko	1	..	13281b 72	216	31.5	+84 12	8.9	9.2	F2	3	..	37546i	
23	5601	31.1	-44 47	8.6	9.0	Ko	3	..	39945b 73	1789	31.5	+48 1	7.8	8.3	F8	3	..	38336i	
24	962	31.1	-68 8	8.7	8.8	A2	4	..	40074b 74	1886	31.5	+44 39	8.52	9.70	K5	4	3,1	4904m	
25	914	31.1	-70 58	8.4	9.4	Ko	2	..	40074b 75	2944	31.5	-13 7	8.8	9.1	Fo	4	..	21395b	
26	602	31.2	+67 43	6.28	7.46	K5	8	..	37517i 76	2893	31.5	-14 2	9.2	10.3	K2	2	..	21395b	
27	1788	31.2	+48 27	8.5	9.1	Go	2	..	38336i 77	2897	31.5	-14 22	8.6	8.7	A5	6	..	21395b	
28	2054	31.2	+38 21	8.9	9.2	F2	2	..	38241i 78	7341	31.5	-25 28	8.5	9.9	Ma	2	..	13281b	
29	2952	31.2	- 6 58	9.2	9.5	F2	4	..	22976b 79	5707	31.5	-38 24	9.6	10.0	K2	1	..	18436b	
30	..	31.2	-11 26	..	..	G	1	..	21395b 80	5651	31.5	-39 46	8.5	8.9	F8	3	..	39945b
31	2895	31.2	-14 37	8.7	9.8	K2	4	..	21395b 81	5607	31.5	-44 11	9.6	9.3	Ao	2	..	39945b	
32	2854	31.2	-21 30	8.2	8.7	Ko	2	..	41239b 82	4278	31.5	-50 9	9.14	9.6	Ko	1	..	39868b	
33	7691	31.2	-30 19	9.4	10.1	G5	1	..	13281b 83	1576	31.5	-58 47	4.20	4.08	B5	..	R	28,203	
34	5333	31.2	-40 58	9.3	10.0	K5	1	..	39945b 84	1296	31.5	-62 1	8.53	9.9	K5	3	..	40221b	
35	4514	31.2	-49 58	8.90	8.9	Ao	5	..	39868b 85	346	31.5	-81 16	8.63	8.7	A2	5	0,3	20869b	
36	2555	31.2	-52 19	9.4	9.5	A2	1	..	39868b 86	465	31.6	+72 12	7.8	8.2	F5	5	..	37714i	
37	2136	31.2	-57 25	9.5	9.5	Ao	2	..	38748b 87	2014	31.6	+31 26	8.1	8.9	G5	3	..	37741i	
38	1256	31.2	-62 47	8.0	9.2	K5	3	..	40221b 88	2111	31.6	+22 23	8.6	8.6	Ao	4	..	38046i	
39	1257	31.2	-63 2	8.1	8.2	A3	7	..	40221b 89	2109	31.6	+16 54	5.92	6.92	Ko	8	0,8	37613i	
40	315	31.3	+78 0	8.3	8.6	F2	5	..	37714i 90	1997	31.6	+16 42	7.7	8.2	F8	3	..	37608i	
41	570	31.3	+70 45	9.0	9.8	G5	2	..	37706i 91	2206	31.6	+ 5 24	8.5	9.7	K5	3	..	19340b	
42	1855	31.3	+49 27	8.9	9.3	F5	2	..	38336i 92	2218	31.6	+ 4 44	9.9	10.4	F8	2	..	19340b	
43	1742	31.3	+44 52	8.62	9.69	K2	4	3,1	4904m 93	2238	31.6	+ 3 32	9.2	9.7	F8	4	..	19340b	
44	2012	31.3	+31 42	9.2	9.5	F	1	..	37741i 94	2719	31.6	- 9 6	9.5	10.1	Go	1	..	21395b	
45	2120	31.3	+23 29	7.04	7.04	Ao	7	..	37608i 95	2904	31.6	-18 12	8.4	8.5	A2	5	..	41239b	
46	2108	31.3	+22 42	7.90	8.90	Ko	4	..	37608i 96	7251	31.6	-27 5	7.50	7.8	Ao	8	..	13281b	
47	2159	31.3	+ 7 34	8.0	8.6	Go	3	..	9643b 97	7439	31.6	-28 58	8.3	10.4	Ko	1	..	13281b	
48	2205	31.3	+ 5 30	8.5	8.9	F5	3	..	19340b 98	7434	31.6	-31 17	10.9	9.5	Ao	2	..	13047b	
49	8247	31.3	-24 24	9.5	9.5	Ao	2	..	13323b 99	5653	31.6	-39 27	9.1	10.5	Mc	2	..	39945b	
50	5805	31.3	-35 22	10.4	9.4	A3	2	..	18436b 100	5340	31.6	-40 16	9.1	9.4	A5	2	..	39945b	

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3956	31.6	-51 28	9.1	9.2	F5	4	..	39868b	51	1421	31.9	-59 20	9.6	9.6	Ao	1	..	38748b
2	2317	31.6	-56 3	8.1	9.0	Ko	3	..	40105b	52	964	31.9	-68 45	9.3	10.3	Ko	1	..	21452b
3	590	31.6	-75 16	9.53	9.3	A2	4	..	21453b	53	1085	31.9	-69 15	8.8	8.8	Ao	4	..	40074b
4	523	31.6	-77 10	9.0	9.1	A3	5	..	21453b	54	838	31.9	-72 14	8.0	8.0	Ao	5	..	22988b
5	1249	31.7	+58 59	7.52	8.87	Ma	4	..	38224i	55	571	32.0	+70 4	9.3	9.9	G	1	R	37706i
6	1665	31.7	+50 20	8.1	8.1	B9	4	..	38650i	56	2878	32.0	-10 41	8.5	8.8	F2	5	..	21395b
7	1744	31.7	+45 24	9.1	9.9	G5	2	..	4904m	57	2899	32.0	-14 12	9.5	9.8	F2	4	..	21395b
8	2009	31.7	+37 4	9.1	10.1	Ko	1	..	38241i	58	2733	32.0	-18 33	9.7	9.8	A5	1	..	41239b
9	2874	31.7	-10 50	7.58	7.58	Ao	8	..	21395b	59	2861	32.0	-21 59	8.6	9.3	Ko	1	..	13323b
10	2946	31.7	-12 47	9.2	9.3	A2	4	..	21395b	60	8550	32.0	-23 47	9.1	9.0	Go	3	5.3	13281b
11	2838	31.7	-16 56	8.7	9.9	K5	1	..	41239b	61	8263	32.0	-24 16	6.52	7.5	F2	3	0.8	7734b
12	2955	31.7	-20 27	8.0	9.0	Ko	3	..	41239b	62	7262	32.0	-26 53	8.11	8.9	Ko	3	..	13281b
13	2859	31.7	-21 33	7.33	7.7	A3	7	..	41239b	63	7447	32.0	-28 32	10.4	9.9	A	1	..	13281b
14	7343	31.7	-25 31	8.1	8.9	K5	5	..	13281b	64	5818	32.0	-35 35	8.4	8.1	Ao	5	..	18436b
15	5428	31.7	-43 26	10.0	9.3	A2	2	..	39945b	65	5319	32.0	-46 21	9.6	9.3	A3	3	..	39931b
16	5270	31.7	-45 40	7.9	9.0	K2	3	..	39931b	66	5048	32.0	-48 4	8.4	8.1	Ao	4	..	39931b
17	5271	31.7	-46 6	10.2	9.6	Ao	3	..	39931b	67	2611	32.0	-53 50	9.2	9.2	B8	2	..	39868b
18	5045	31.7	-47 21	9.6	9.6	F5	1	..	39931b	68	1579	32.0	-58 36	9.4	9.4	Ao	3	..	38748b
19	5044	31.7	-47 38	8.0	8.1	Ao	6	..	39931b	69	1297	32.0	-61 50	10.2	10.2	A	1	..	40096b
20	4818	31.7	-48 41	8.4	8.6	Fo	3	..	39931b	70	528	32.1	+69 0	8.1	8.4	F2	8	R	37706i
21	1084	31.7	-69 9	8.9	8.9	Ao	3	..	40074b	71	528	32.1	+69 0	8.1	8.4	A2	8	R	37706i
22	1083	31.7	-69 18	8.8	8.9	A2	3	..	40074b	72	1666	32.1	+50 42	8.1	8.9	G5	4	..	38650i
23	215	31.8	+84 48	8.88	9.44	G	2	..	37546i	73	2127	32.1	+25 8	6.60	7.10	F8	8	3.8	37741i
24	2126	31.8	+24 51	9.01	9.57	Go	2	..	38646i	74	2331	32.1	+1 11	9.0	9.3	Fo	4	..	19340b
25	2083	31.8	+15 41	7.95	8.20	F2	4	0.4	37610i	75	2284	32.1	-1 28	8.9	9.4	F8	3	..	19340b
26	2846	31.8	-8 10	8.2	9.2	Ko	5	E	21395b	76	2847	32.1	-7 31	9.7	10.7	K	1	..	22976b
27	2876	31.8	-10 21	9.36	10.14	G5	2	..	21395b	77	6758	32.1	-27 32	7.7	8.0	A2	6	..	13281b
28	2895	31.8	-13 59	9.7	10.0	F2	3	..	21395b	78	6757	32.1	-27 39	8.9	10.4	Ko	1	..	13281b
29	2896	31.8	-14 2	9.9	10.5	Go	1	..	21395b	79	7448	32.1	-28 52	8.2	9.5	F8	3	..	13281b
30	2956	31.8	-21 1	8.2	8.1	A2	6	..	41239b	80	4824	32.1	-48 29	8.6	8.4	B9	5	..	39931b
31	7704	31.8	-30 47	7.9	7.6	A3	7	R	13047b	81	4527	32.1	-49 47	9.4	9.2	B5	1	..	39931b
32	7704	31.8	-30 47	7.9	7.6	G	7	R	13047b	82	2340	32.1	-56 32	9.4	10.4	Ko	1	..	40105b
33	4821	31.8	-48 34	9.0	8.7	A2	3	..	39931b	83	850	32.1	-71 42	8.3	8.3	Ao	4	..	22988b
34	2460	31.8	-54 10	9.0	9.8	K2	2	..	39868b	84	217	32.2	+84 10	8.9	9.9	Ko	1	..	37546i
35	1578	31.8	-58 9	8.6	9.0	A2	4	..	38748b	85	1206	32.2	+58 19	8.8	9.8	Ko	3	..	38224i
36	418	31.8	-79 14	10.0	10.4	F5	2	..	21453b	86	1687	32.2	+46 53	8.6	9.6	Ko	3	2.1	4904m
37	347	31.8	-81 24	8.17	9.7	K5	3	0.2	20869b	87	2232	32.2	+40 42	5.24	5.38	A5	..	5.10	56,86
38	1080	31.9	+62 33	8.9	9.7	G5	2	..	37517i	88	2110	32.2	+24 30	8.5	8.9	F5	3	..	38646i
39	1529	31.9	+46 23	9.0	9.6	Go	3	5.1	4904m	89	2000	32.2	+15 54	8.7	9.2	F8	2	E	37608i
40	2160	31.9	+7 17	5.14	6.14	Ko	10	..	37610i	90	2227	32.2	+2 20	7.9	8.5	Go	6	..	19340b
41	2956	31.9	-6 36	8.4	9.4	Ko	4	..	22976b	91	2332	32.2	+1 24	8.9	9.3	F5	3	..	19340b
42	2721	31.9	-9 0	9.2	10.2	Ko	1	..	21395b	92	6204	32.2	-33 10	8.4	9.2	K2	1	..	13047b
43	2885	31.9	-9 13	9.5	9.6	A2	2	..	21395b	93	5820	32.2	-35 52	7.48	8.2	G5	5	..	18436b
44	2877	31.9	-11 9	9.2	9.3	A2	4	..	21395b	94	5722	32.2	-38 34	10.4	10.0	Ao	1	..	18436b
45	7442	31.9	-28 36	8.9	10.1	F8	1	..	13281b	95	5437	32.2	-43 54	9.1	9.6	Ao	2	..	39945b
46	5815	31.9	-35 51	10.4	9.4	Ao	3	..	18436b	96	4825	32.2	-48 56	9.6	9.5	A5	2	..	39931b
47	5433	31.9	-43 45	7.6	7.8	Ao	3	..	35949b	97	1137	32.2	-63 35	6.9	6.9	B8	9	..	40221b
48	5274	31.9	-45 38	9.2	9.3	A2	2	..	39931b	98	965	32.2	-68 9	9.7	9.7	A	2	..	21452b
49	4822	31.9	-48 35	10.2	9.2	A2	2	..	39931b	99	1136	32.3	+61 9	8.7	9.7	Ko	3	..	38224i
50	4526	31.9	-49 45	9.2	9.3	Ao	2	..	39931b	100	1408	32.3	+52 47	8.1	8.7	Go	3	..	38650i

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2070	32.3	+12 20	9.2	9.8	Go	1	..	3761oi	51	2018	32.7	+31 13	8.7	9.0	Fo	4	..	3774ii
2	2219	32.3	+ 4 1	9.2	9.5	F	2	..	1934ob	52	2939	32.7	- 2 43	6.56	7.56	Ko	8	..	21505b
3	2220	32.3	+ 3 56	8.9	9.2	Fo	4	..	1934ob	53	2910	32.7	-17 59	8.8	8.8	Ao	4	..	41239b
4	2240	32.3	+ 2 59	9.6	10.2	Go	1	..	1934ob	54	5825	32.7	-35 41	10.0	9.4	Ao	3	..	18436b
5	2728	32.3	- 3 38	8.4	9.0	Go	3	..	21505b	55	5816	32.7	-36 24	9.1	9.6	Go	1	..	18436b
6	2901	32.3	-13 23	9.5	9.6	A3	3	..	21395b	56	5208	32.7	-41 39	9.3	9.7	F8	3	..	39945b
7	8554	32.3	-24 3	9.9	9.3	F5	2	3,2	13145b	57	5332	32.7	-46 20	9.4	9.6	A3	3	..	39931b
8	5355	32.3	-40 37	9.3	9.4	Fo	2	..	39945b	58	3977	32.7	-51 18	8.4	8.6	Ao	7	..	39868b
9	5202	32.3	-41 25	9.4	10.0	A3	2	..	39945b	59	1045	32.7	-64 33	7.6	8.0	F5	5	..	40221b
10	5442	32.3	-43 28	9.1	9.0	G5	1	..	39945b	60	421	32.7	-79 52	10.6	10.6	A	1	..	21453b
11	5276	32.3	-45 38	8.6	9.3	F8	3	..	39931b	61	1081	32.8	+62 24	8.3	8.4	A5	4	3,3	37517i
12	1115	32.3	-65 41	7.2	7.2	B8	7	..	40221b	62	2128	32.8	+13 10	6.80	7.58	G5	6	..	3761oi
13	1251	32.4	+59 19	8.3	8.8	F8	3	..	38224i	63	2536	32.8	+ 0 7	7.9	8.0	A2	4	..	21505b
14	2681	32.4	-11 46	8.7	9.1	F5	5	..	21395b	64	2854	32.8	- 5 43	8.6	9.1	F8	5	..	22976b
15	2948	32.4	-12 14	9.5	10.5	Ko	1	..	21395b	65	7455	32.8	-31 27	9.7	8.9	G5	2	..	13047b
16	2903	32.4	-13 13	8.6	8.9	F2	5	..	21395b	66	5820	32.8	-36 35	8.7	9.4	F8	2	..	18436b
17	7269	32.4	-26 25	7.78	9.0	K2	4	..	13281b	67	5669	32.8	-40 5	9.34	10.0	Ko	1	..	39945b
18	7446	32.4	-31 48	9.1	9.2	Ao	3	..	13047b	68	4831	32.8	-48 18	6.48	7.2	Fop	..	0,8R	28,203
19	5205	32.4	-41 46	9.4	9.7	F5	2	..	39945b	69	2599	32.8	-52 46	8.1	8.1	B9	5	..	39868b
20	5326	32.4	-47 1	9.8	9.9	A2	2	..	39931b	70	1137	32.9	+60 57	8.8	9.3	F8	3	..	38224i
21	4530	32.4	-49 23	9.8	9.5	A2	1	..	39931b	71	1943	32.9	+43 36	6.63	7.63	Ko	7	0,7	37459i
22	2590	32.4	-52 40	8.6	8.9	B9	4	..	39868b	72	1885	32.9	+30 19	8.8	9.1	F2	2	..	3774ii
23	526	32.4	-77 36	9.5	10.6	K2	1	..	21453b	73	2725	32.9	- 8 59	6.38	6.38	Ao	9	..	22976b
24	420	32.4	-79 31	9.3	10.4	K2	4	..	21453b	74	2951	32.9	-12 51	8.6	9.4	G5	4	..	21395b
25	1342	32.5	+55 18	9.0	9.1	A3	2	..	38224i	75	2844	32.9	-15 15	7.61	8.61	Ko	7	..	21395b
26	2232	32.5	+17 49	7.8	8.8	Ko	3	..	37608i	76	2843	32.9	-16 38	9.0	9.8	G5	2	..	41239b
27	2114	32.5	+17 18	7.9	8.7	G5	4	..	37608i	77	6771	32.9	-28 5	8.5	8.7	A5	6	..	13281b
28	2228	32.5	+ 2 15	10.6	11.4	G5	1	..	1934ob	78	7460	32.9	-28 57	8.9	8.7	Ao	4	..	13281b
29	2229	32.5	+ 2 9	7.02	7.80	G5	10	..	1934ob	79	7637	32.9	-29 46	7.48	7.9	A2	8	..	13281b
30	2961	32.5	-20 57	8.0	8.4	Ao	5	..	41239b	80	7458	32.9	-31 44	5.63	7.7	Ko	..	0,9	56,127
31	8273	32.5	-24 47	9.4	9.2	F2	3	R	13281b	81	5830	32.9	-35 57	9.4	9.3	Ao	3	..	18436b
32	8272	32.5	-24 51	5.94	6.8	Ko	..	0,8-	56,127	82	5821	32.9	-37 0	9.4	9.9	Go	1	..	18436b
33	7716	32.5	-30 49	9.1	9.5	Ao	2	..	13281b	83	5364	32.9	-40 8	10.0	10.0	Ao	1	..	39945b
34	6563	32.5	-32 53	8.4	7.6	Ao	4	..	13047b	84	5441	32.9	-42 23	10.0	10.0	Ao	2	..	39945b
35	2616	32.5	-53 44	7.6	8.1	B8	5	..	39868b	85	5285	32.9	-45 54	8.5	9.0	Go	4	..	39931b
36	1580	32.5	-58 46	8.6	10.2	K5	2	..	38748b	86	5063	32.9	-47 35	9.2	9.3	F8	2	..	39931b
37	1466	32.5	-60 19	8.4	8.8	Ao	4	..	40221b	87	4299	32.9	-51 4	7.4	8.0	Fo	8	..	39868b
38	1116	32.5	-65 18	9.6	10.0	F5	1	..	40074b	88	3979	32.9	-52 6	7.9	9.0	Ma	3	..	39868b
39	263	32.6	+83 47	7.89	8.17	Fo	5	..	37546i	89	1583	32.9	-59 2	9.0	9.4	Ao	3	..	38748b
40	1785	32.6	+28 28	7.9	8.5	Go	4	..	3774ii	90	1302	32.9	-61 18	8.8	9.4	G5	2	..	40221b
41	1985	32.6	+25 48	8.1	8.9	G5	2	..	38646i	91	1303	32.9	-62 1	8.43	10.2	K5	2	..	40221b
42	2111	32.6	+24 0	7.9	8.3	F5	4	..	37608i	92	918	32.9	-70 29	9.0	9.1	A2	2	..	22988b
43	2087	32.6	+14 48	6.60	6.94	F2	7	3,8	3761oi	93	359	32.9	-80 47	8.02	8.5	Fo	6	5,4	20869b
44	2904	32.6	-14 24	8.0	8.1	A2	8	..	21395b	94	1316	33.0	+53 57	7.40	8.40	Ko	6	0,4	3865oi
45	7356	32.6	-25 39	8.5	9.0	G5	4	..	13281b	95	1887	33.0	+30 36	8.02	8.58	Go	4	..	3774ii
46	5281	32.6	-46 5	9.4	9.6	Go	2	..	39931b	96	2126	33.0	+23 31	7.9	8.3	F5	4	..	38046i
47	2477	32.6	-54 14	10.1	10.1	Ao	2	..	39868b	97	2127	33.0	+22 57	9.5	10.5	Ko	1	..	38646i
48	1425	32.6	-59 26	8.9	9.9	Ko	1	..	38748b	98	2068	33.0	+21 36	8.2	8.6	F5	2	..	38046i
49	530	32.7	+69 46	9.19	9.75	G	1	..	37706i	99	7725	33.0	-30 32	7.02	8.3	Ko	5	..	13047b
50	1942	32.7	+43 9	8.9	9.4	F8	2	..	38336i	100	5924	33.0	-37 50	8.7	8.8	F8	3	..	18436b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5925	33.0	-37 57	9.4	9.4	F0	2	..	18436b	51	2033	33.4	+35 41	7.20	7.62	F5	6	..	38241i
2	966	33.0	-68 51	9.2	10.2	K0	2	..	21452b	52	2071	33.4	+11 14	7.6	7.7	A3	7	..	3761oi
3	1944	33.1	+43 24	8.37	9.37	K0	2	..	38336i	53	2733	33.4	-3 24	7.14	8.14	K0	3	..	21505b
4	2128	33.1	+23 25	9.1	9.2	A2	3	..	38046i	54	2953	33.4	-13 4	9.2	10.2	K0	2	..	21395b
5	2112	33.1	+22 0	7.7	8.7	K0	2	..	37608i	55	2845	33.4	-16 16	9.2	10.6	Ma	1	..	41239b
6	2249	33.1	+8 10	7.6	7.7	A2	4	..	3761oi	56	2846	33.4	-16 52	8.8	9.4	Go	2	..	41239b
7	2222	33.1	+4 3	9.9	11.0	K2	1	..	1934ob	57	2916	33.4	-18 10	9.5	9.6	A5	2	..	41239b
8	2230	33.1	+2 17	8.1	8.6	F8	8	..	1934ob	58	7366	33.4	-25 29	8.3	9.6	K0	2	..	13281b
9	2229	33.1	-1 2	8.5	8.5	A0	4	..	21505b	59	7728	33.4	-30 14	7.82	8.9	K0	2	..	13047b
10	2959	33.1	-7 10	9.5	10.0	F8	3	..	19137b	60	6035	33.4	-34 31	8.7	9.0	F8	3	..	18436b
11	2682	33.1	-11 34	10.4	11.0	G	1	..	21395b	61	5221	33.4	-41 30	9.8	10.0	A3	2	..	39945b
12	2846	33.1	-15 50	9.0	9.3	F0	5	..	21395b	62	5454	33.4	-43 50	9.6	9.3	A0	3	..	39945b
13	7465	33.1	-28 11	8.5	9.7	K0	2	..	13281b	63	4841	33.4	-48 15	8.9	8.6	B8	4	..	39931b
14	7641	33.1	-29 21	7.13	8.3	K0	7	..	13281b	64	3992	33.4	-52 1	9.2	9.3	A2	3	..	39868b
15	6571	33.1	-32 50	8.8	10.7	K2	2	..	22915b	65	2612	33.4	-52 30	6.10	8.1	G5	..	0,8	56,127
16	5822	33.1	-36 54	8.7	9.0	F0	3	..	18436b	66	2356	33.4	-56 47	10.0	10.1	A2	2	..	40105b
17	5926	33.1	-37 32	8.8	9.6	K0	2	..	18436b	67	2161	33.4	-57 16	9.2	9.2	B9	3	..	40105b
18	5736	33.1	-38 15	8.8	8.2	A0	5	..	18436b	68	527	33.4	-78 6	9.8	10.6	G5	2	..	21453b
19	5367	33.1	-40 54	10.0	9.7	F5	2	..	39945b	69	1989	33.5	+25 49	7.19	7.47	F0	7	..	37741i
20	1138	33.1	-64 0	8.9	9.5	Go	2	..	40221b	70	2072	33.5	+21 40	7.84	8.62	G5	4	..	37608i
21	1029	33.1	-66 37	9.5	10.0	F8	1	..	40074b	71	2944	33.5	-2 38	8.4	9.2	G5	2	..	21505b
22	378	33.2	+77 40	7.9	8.9	K0	5	..	37714i	72	5742	33.5	-38 45	9.3	9.7	A0	3	..	18436b
23	2032	33.2	+42 44	8.0	8.5	F8	3	..	38336i	73	5456	33.5	-43 30	10.0	9.3	A0	2	..	39945b
24	2163	33.2	+6 53	8.3	9.4	K2	3	2,2	1934ob	74	3994	33.5	-51 38	10.9	9.8	A0	2	..	39868b
25	2207	33.2	+5 6	4.78	5.78	K0	..	..	56,86	75	1428	33.5	-59 33	9.0	9.0	B8	3	..	40105b
26	2681	33.2	-4 43	8.0	9.1	K2	5	..	22976b	76	1427	33.5	-59 37	9.5	10.6	K2	1	..	40105b
27	2684	33.2	-11 42	10.4	10.9	F8	1	..	21395b	77	1139	33.5	-64 7	6.8	6.8	A0	7	..	40221b
28	2847	33.2	-15 47	8.8	9.9	K2	4	..	21395b	78	2236	33.6	+17 56	8.5	8.8	F	3	..	37608i
29	4538	33.2	-49 15	9.6	9.8	K0	1	..	39931b	79	2091	33.6	+14 52	8.39	9.17	G5	2	..	3761oi
30	3985	33.2	-52 6	9.6	9.2	A2	2	..	39868b	80	2853	33.6	-7 12	9.0	9.5	F8	4	..	19137b
31	2354	33.2	-56 9	9.8	9.8	B9	2	..	40105b	81	2850	33.6	-15 19	8.75	9.53	G5	3	..	21395b
32	2159	33.2	-57 35	7.6	8.6	K0	5	..	38748b	82	2741	33.6	-18 32	8.2	8.2	A0	5	..	41239b
33	422	33.2	-79 57	9.6	9.6	A0	5	..	21453b	83	2740	33.6	-19 11	8.8	9.0	A2	2	..	41239b
34	2351	33.3	+20 45	6.80	6.78	B9	10	..	37608i	84	6781	33.6	-27 31	9.2	9.7	F	1	..	13281b
35	2852	33.3	-7 38	9.0	10.1	K2	2	..	19137b	85	7731	33.6	-30 26	9.7	9.5	A3	3	1,2	22915b
36	2851	33.3	-7 47	9.7	10.2	F8	3	..	19137b	86	5685	33.6	-39 50	9.0	10.0	K2	2	..	39945b
37	2685	33.3	-12 4	9.9	10.9	K0	1	..	21395b	87	5644	33.6	-44 18	8.3	9.0	K2	2	..	39945b
38	2844	33.3	-16 12	9.1	10.1	K0	1	..	41239b	88	1470	33.6	-60 41	8.0	8.1	B9	6	..	40221b
39	2739	33.3	-18 33	8.0	8.0	A0	7	..	41239b	89	531	33.7	+69 42	5.74	6.74	K0	..	0,10	56,86
40	7646	33.3	-29 45	9.5	9.8	F8	2	..	13281b	90	608	33.7	+67 12	8.1	8.2	A2	4	..	37517i
41	5833	33.3	-35 39	6.09	7.5	K0	8	..	18436b	91	1253	33.7	+59 2	7.8	8.8	K0	4	..	38224i
42	5219	33.3	-41 35	8.8	10.2	K2	2	..	39945b	92	1693	33.7	+46 56	8.6	9.6	K0	1	..	38336i
43	5452	33.3	-42 49	8.6	9.1	K0	4	..	39945b	93	2245	33.7	+3 40	9.2	10.2	K0	3	..	1934ob
44	5342	33.3	-46 33	8.6	9.9	K5	2	..	39931b	94	2335	33.7	+1 23	9.9	10.7	G5	1	..	1934ob
45	4837	33.3	-48 20	8.8	8.3	A0	4	..	39931b	95	2909	33.7	-13 18	8.8	8.8	A0	4	..	21395b
46	4836	33.3	-48 55	4.49	4.63	A5	..	0,8R	28,203	96	2907	33.7	-15 11	9.06	9.06	A0	5	..	21395b
47	844	33.3	-73 4	8.2	9.3	K2	1	..	22988b	97	2767	33.7	-20 6	8.88	9.3	A2	4	..	41239b
48	218	33.4	+83 58	8.5	9.3	G5	2	..	37546i	98	7371	33.7	-25 55	8.3	9.0	G5	4	..	13281b
49	1861	33.4	+49 34	8.5	9.5	K0	3	..	3865oi	99	5686	33.7	-39 17	8.4	8.8	A2	4	..	39945b
50	2033	33.4	+42 31	8.22	9.22	K0	3	5,3	38336i	100	4000	33.7	-51 9	10.0	9.5	A3	2	..	39868b

THE HENRY DRAPER CATALOGUE.

83500

9^h 33^m.7

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2365	33.7	-56 41	8.4	9.3	K2	3	..	40105b	51	405	34.2	+74 30	8.8	9.6	G5	3	..	37714i
2	1429	33.7	-59 31	9.7	9.7	Ao	2	..	40105b	52	1320	34.2	+54 22	8.6	9.7	K2	2	..	38650i
3	1262	33.7	-62 14	9.4	9.7	Fo	1	..	40221b	53	1353	34.2	+53 4	8.1	9.1	Ko	2	E	38638i
4	1140	33.7	-63 27	8.7	9.7	Ko	1	..	40221b	54	1748	34.2	+44 59	8.7	8.8	A2	3	..	38336i
5	362	33.8	+76 21	8.6	9.6	Ko	2	..	37714i	55	1926	34.2	+29 7	9.5	10.5	K	1	..	37741i
6	466	33.8	+72 42	5.39	6.39	Ko	10	..	37714i	56	1792	34.2	+28 45	10.0	10.3	F	1	..	37741i
7	855	33.8	+63 10	8.1	9.1	Ko	2	..	37517i	57	2105	34.2	+ 6 56	9.0	9.8	G5	2	..	19340b
8	1319	33.8	+53 50	7.74	8.92	K5	4	0,3	38650i	58	2650	34.2	-53 19	8.9	8.9	Ao	3	..	39868b
9	2131	33.8	+13 46	6.94	7.36	F5	7	..	37610i	59	2170	34.2	-57 33	9.0	9.5	Ao	2	..	40105b
10	2132	33.8	+12 52	9.2	9.3	A5	2	..	37610i	60	1588	34.2	-58 49	9.6	9.7	A2	2	..	40105b
11	2220	33.8	+ 8 56	8.7	10.1	Ma	..	..	M	61	1589	34.2	-59 7	9.6	10.8	K5	1	..	40105b
12	2246	33.8	+ 3 46	9.9	10.5	G	1	..	19340b	62	455	34.2	-78 26	9.1	10.1	Ko	3	..	21453b
13	2286	33.8	- 1 39	9.2	9.2	Ao	3	E	19340b	63	351	34.2	-81 49	7.72	7.5	Ao	7	0,2-	13465b
14	2687	33.8	-11 20	7.8	8.8	Ko	7	..	21395b	64	1397	34.3	+56 19	6.67	7.67	Ko	5	..	38638i
15	2686	33.8	-12 11	8.7	9.7	Ko	3	..	21395b	65	2211	34.3	+ 5 32	9.2	9.6	F5	3	..	19340b
16	6039	33.8	-34 38	8.8	9.1	K2	2	..	18436b	66	2226	34.3	+ 4 8	9.9	10.5	Go	2	..	19340b
17	5827	33.8	-36 29	7.73	8.4	G5	6	..	18436b	67	2225	34.3	+ 3 56	9.4	10.8	Ma	1	..	19340b
18	5930	33.8	-37 23	9.3	9.3	G5	2	..	18436b	68	2232	34.3	+ 2 2	9.2	10.0	G5	1	..	19340b
19	4317	33.8	-50 39	9.6	9.8	Ao	3	..	39868b	69	2948	34.3	- 2 13	8.4	9.6	K5	3	..	22970b
20	2646	33.8	-53 13	5.53	5.6	A2	..	0,7-	56,127	70	2858	34.3	- 5 16	8.65	9.07	F5	5	0,2	22976b
21	1431	33.8	-59 15	9.4	9.4	B9	3	..	40105b	71	2884	34.3	-10 17	9.9	10.5	Go	1	..	21395b
22	1141	33.8	-64 5	9.7	9.7	Ao	1	..	40221b	72	2848	34.3	-17 11	6.87	7.15	Fo	8	..	41239b
23	1049	33.8	-64 30	6.88	6.6	A2	10	..	40221b	73	2921	34.3	-17 44	8.2	9.3	K2	2	..	41239b
24	336	33.8	-83 5	9.2	9.6	F5	2	..	20869b	74	8302	34.3	-24 32	9.1	9.7	F8	2	..	13281b
25	2034	33.9	+35 48	6.96	7.38	F5	7	..	38241i	75	5695	34.3	-39 57	8.94	9.7	Ko	2	..	39945b
26	2969	33.9	-20 28	8.6	9.0	A2	3	..	41239b	76	4009	34.3	-51 47	9.8	9.5	A3	3	..	39868b
27	7373	33.9	-25 32	9.5	9.9	G5	1	..	13281b	77	2511	34.3	-54 30	9.3	9.3	A	1	..	39868b
28	5691	33.9	-40 4	8.84	9.1	F2	4	..	39945b	78	1590	34.3	-58 35	8.9	8.5	B9	5	..	40105b
29	4546	33.9	-49 33	7.2	8.0	Go	8	..	39931b	79	1472	34.3	-60 56	8.4	8.5	A2	5	..	40221b
30	1030	33.9	-66 50	8.3	9.1	G5	3	..	40074b	80	2224	34.4	+ 4 25	9.9	11.0	K2	1	..	19340b
31	1098	33.9	-67 46	7.5	7.5	Ao	8	..	40074b	81	2249	34.4	+ 3 39	7.6	8.4	G5	7	..	19340b
32	853	33.9	-71 9	8.6	9.4	G5	1	..	22988b	82	2671	34.4	-22 30	9.0	9.3	F5	2	..	13323b
33	1987	34.0	+36 12	8.7	9.3	G	1	..	38241i	83	5303	34.4	-45 8	9.18	9.9	K5	1	..	39931b
34	2114	34.0	+22 39	8.1	8.2	A2	3	..	37608i	84	5357	34.4	-46 57	8.2	9.0	Ko	3	..	39931b
35	2946	34.0	- 2 23	7.14	7.14	Ao	7	..	21505b	85	4328	34.4	-51 6	10.2	9.6	A3	2	..	39868b
36	2736	34.0	- 3 34	7.8	8.9	K2	3	..	21505b	86	1591	34.4	-58 14	9.6	9.6	Ao	3	..	40105b
37	2908	34.0	-14 47	9.9	10.5	Go	2	..	21395b	87	1433	34.4	-59 42	9.0	9.4	Fo	3	..	40105b
38	7741	34.0	-30 29	9.7	10.1	Ko	1	2,1	13281b	88	1208	34.5	+57 57	8.7	9.7	Ko	2	..	38224i
39	6043	34.0	-34 59	8.39	9.3	K2	3	..	18436b	89	1793	34.5	+28 41	9.5	10.1	G	1	..	37741i
40	4320	34.0	-51 1	9.0	9.3	A2	5	..	39868b	90	2227	34.5	+ 4 44	8.06	9.06	Ko	6	..	19340b
41	2372	34.0	-56 58	9.6	10.7	K2	1	..	40105b	91	2688	34.5	-11 20	10.4	11.0	Go	2	..	21395b
42	594	34.0	-75 45	9.5	9.6	A2	4	..	21453b	92	2689	34.5	-11 31	10.4	11.2	G5	1	..	21395b
43	2075	34.1	+12 37	8.5	9.6	K2	2	..	37610i	93	2909	34.5	-14 44	9.9	10.3	F5	3	..	21395b
44	2248	34.1	+ 2 56	8.9	9.5	Go	4	..	19340b	94	7485	34.5	-31 53	8.7	8.9	Go	3	..	13047b
45	2737	34.1	- 3 56	8.1	9.2	K2	2	..	21505b	95	5081	34.5	-47 29	9.0	9.3	Ko	2	..	39931b
46	2893	34.1	- 9 58	9.1	9.7	Go	3	..	21395b	96	4858	34.5	-48 20	8.2	7.8	Fo	6	..	39931b
47	6788	34.1	-27 33	8.3	8.5	Ao	5	..	13281b	97	2656	34.5	-53 14	9.0	8.9	Bo	3	..	39868b
48	5462	34.1	-42 45	5.50	7.1	Ko	..	0,5 R	56,127	98	2175	34.5	-57 19	9.5	9.5	Ao	1	..	40105b
49	2505	34.1	-54 23	9.1	9.3	Fo	2	..	39868b	99	389	34.6	+75 3	6.69	6.97	Fo	9	..	37714i
50	317	34.2	+78 36	6.41	7.19	G5	7	..	37465i	100	1533	34.6	+51 22	9.1	9.5	F5	3	..	38650i

83600

9^h 34^m.6

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1892	34.6	+44 26	7.77	8.05	Fo	7	..	38336i	51	2886	34.9	-10 16	8.51	9.58	K2	3	..	21395b
2	2079	34.6	+10 57	8.9	9.7	G5	1	..	37610i	52	5768	34.9	-38 19	9.8	9.5	Ao	2	..	18436b
3	2041	34.6	+9 58	8.82	9.38	Go	1	..	37610i	53	5474	34.9	-42 35	10.2	9.5	Ao	2	..	39945b
4	2739	34.6	-3 45	8.6	8.6	Ao	5	..	21505b	54	4338	34.9	-50 35	9.8	9.5	Ao	1	..	39868b
5	2968	34.6	-6 57	9.5	10.6	K2	1	..	19137b	55	2645	34.9	-52 15	7.9	8.1	B8	6	..	39868b
6	2885	34.6	-10 46	9.5	9.6	A5	3	..	21395b	56	2525	34.9	-54 38	9.1	8.6	A2	3	..	39868b
7	2922	34.6	-17 52	8.4	8.4	Ao	5	..	41239b	57	2370	34.9	-55 52	7.7	8.6	Ko	3	..	40105b
8	2673	34.6	-22 39	7.24	7.6	B9	7	..	13323b	58	2382	34.9	-56 25	8.2	9.5	Ko	4	..	40105b
9	5850	34.6	-36 5	8.4	8.8	G5	4	..	18436b	59	1474	34.9	-60 46	9.2	10.2	Ko	2	..	40096b
10	5697	34.6	-39 10	6.66	7.3	F5	7	3.7	18436b	60	596	34.9	-75 14	8.14	8.2	Ko	7	..	21453b
11	5384	34.6	-40 40	10.9	10.0	Ao	2	..	39945b	61	611	35.0	+67 36	8.5	8.6	A5	2	..	38654i
12	5386	34.6	-40 59	10.2	9.4	Ao	3	..	39945b	62	610	35.0	+66 50	8.3	8.8	F8	3	..	37517i
13	2361	34.6	-55 10	9.3	10.3	Ko	1	..	39868b	63	1229	35.0	+57 23	9.8	10.9	K2	1	..	38224i
14	1434	34.6	-59 27	7.2	7.4	A3	8	..	40105b	64	2020	35.0	+31 11	9.5	10.1	G	1	..	37741i
15	150	34.7	+84 57	7.94	8.72	G5	4	..	37546i	65	2115	35.0	+24 33	9.2	10.2	Ko	1	..	38646i
16	1413	34.7	+52 35	8.3	8.9	Go	4	E	38638i	66	2127	35.0	+14 27	8.9	9.2	F2	2	..	37610i
17	2134	34.7	+25 29	8.1	8.7	Go	3	..	38646i	67	2741	35.0	-3 16	8.4	9.6	K5	2	..	22970b
18	2231	34.7	-0 41	4.10	5.10	Ko	..	O,R	1597c	68	2971	35.0	-6 20	9.2	10.2	Ko	1	..	19137b
19	2692	34.7	-11 59	10.1	10.6	F8	2	..	21395b	69	2899	35.0	-9 48	9.2	9.7	F8	2	..	21395b
20	2860	34.7	-15 30	8.2	8.5	Fo	7	..	21395b	70	2694	35.0	-11 15	10.4	11.2	G5	1	..	21395b
21	6239	34.7	-33 19	9.0	9.5	A2	3	..	13047b	71	2924	35.0	-17 37	8.2	9.0	G5	3	..	41239b
22	5361	34.7	-47 4	8.3	8.1	B9	4	..	39931b	72	6245	35.0	-33 52	9.4	9.6	A	1	..	13047b
23	4556	34.7	-49 23	10.2	9.5	F2	1	..	39931b	73	6244	35.0	-33 59	8.8	9.2	Ao	2	..	13047b
24	4335	34.7	-50 41	9.2	9.8	A2	1	..	39868b	74	5771	35.0	-39 5	7.5	8.4	Ko	3	..	39945b
25	2664	34.7	-53 46	7.1	6.7	Aop	..	I,3 R	56,127	75	4339	35.0	-50 21	9.4	9.2	A2	3	..	39868b
26	2516	34.7	-55 3	9.71	9.8	B8	1	..	39868b	76	4025	35.0	-51 55	9.8	9.3	Ao	2	..	39868b
27	1307	34.7	-61 12	8.4	8.4	B8	6	..	40221b	77	2373	35.0	-55 55	9.5	9.5	Ao	2	..	40105b
28	1322	34.8	+53 58	9.0	9.0	Ao	1	..	38638i	78	2383	35.0	-56 31	8.2	8.9	G5	4	..	40105b
29	1670	34.8	+49 49	8.99	9.99	Ko	2	..	38650i	79	1593	35.0	-58 57	8.1	8.1	Go	6	5,2	40105b
30	1895	34.8	+33 27	7.82	8.16	F2	5	..	37741i	80	1092	35.0	-69 20	9.0	10.0	K	1	..	40074b
31	1912	34.8	+32 2	8.8	10.0	K5	..	..	M	81	1532	35.1	+46 41	9.1	9.5	F5	2	..	38336i
32	1990	34.8	+26 28	7.9	8.9	Ko	2	..	38646i	82	2078	35.1	+21 29	8.1	8.9	G5	3	..	37608i
33	2541	34.8	-0 10	9.13	10.13	Ko	3	..	19340b	83	2136	35.1	+13 31	6.77	7.27	F8	7	..	37610i
34	2857	34.8	-7 40	9.2	9.5	F2	4	..	19137b	84	2233	35.1	+2 7	9.4	10.5	K2	1	..	19340b
35	2913	34.8	-13 56	9.0	9.8	G5	4	..	21395b	85	2232	35.1	-0 33	8.7	9.7	Ko	2	..	21505b
36	2861	34.8	-15 54	9.2	9.3	A2	3	..	21395b	86	2914	35.1	-13 14	9.5	10.0	F8	1	..	21395b
37	5238	34.8	-41 45	10.4	9.8	A2	1	..	39945b	87	2751	35.1	-19 6	8.4	8.5	A2	3	..	41239b
38	5304	34.8	-45 41	8.4	9.3	Ko	3	..	39931b	88	8599	35.1	-24 6	9.5	9.0	A3	3	..	13281b
39	2667	34.8	-53 9	9.3	10.3	Ko	1	..	39868b	89	5244	35.1	-41 19	9.4	9.3	A2	2	..	39945b
40	2367	34.8	-55 30	9.1	9.5	A2	3	..	40105b	90	5675	35.1	-45 3	9.08	9.0	Ao	4	2,4	39931b
41	1592	34.8	-58 15	9.5	9.6	A2	2	..	40105b	91	4866	35.1	-49 3	9.4	9.3	F5	2	..	39931b
42	1436	34.8	-59 56	9.3	9.3	Ao	3	..	40105b	92	2388	35.1	-56 45	8.7	9.8	K2	2	..	40105b
43	1118	34.8	-65 58	7.6	7.6	B9	6	..	40221b	93	1594	35.1	-58 31	9.7	9.7	Ao	2	..	40105b
44	1354	34.9	+53 38	9.3	9.9	Go	2	..	38638i	94	1050	35.1	-64 42	8.4	8.5	A2	4	..	40221b
45	1947	34.9	+43 2	8.3	9.3	Ko	4	..	38336i	95	921	35.1	-70 45	8.4	9.4	Ko	1	..	22988b
46	2223	34.9	+9 11	8.5	8.6	A2	2	..	37610i	96	509	35.2	+70 54	8.1	8.4	F2	5	3,3	37706i
47	2251	34.9	+8 44	7.7	8.5	G5	5	..	37610i	97	1894	35.2	+44 39	8.92	9.99	K2	1	..	38336i
48	2250	34.9	+3 25	9.2	10.2	Ko	2	..	19340b	98	2271	35.2	+39 25	6.96	7.74	G5	5	..	37459i
49	2861	34.9	-5 22	9.0	9.3	F2	3	0,2	22976b	99	2043	35.2	+9 53	8.52	9.30	G5	1	..	37610i
50	2898	34.9	-10 7	6.19	6.17	B9	10	..	21395b	100	2215	35.2	+4 49	8.81	9.81	Ko	4	..	19340b

THE HENRY DRAPER CATALOGUE.

83700

9^h 35^m.2

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2234	35.2	+ 2 2	10.6	11.6	Ko	1	..	1934ob	51	2234	35.5	- 0 39	9.2	9.2	Ao	3	..	21505b
2	2733	35.2	- 8 38	7.48	7.76	Fo	7	0,7	19137b	52	2290	35.5	- 1 15	8.5	9.3	G5	4	..	21505b
3	2752	35.2	-18 29	9.2	9.7	F8	2	..	41239b	53	2915	35.5	-13 38	9.1	10.1	Ko	3	..	21395b
4	7676	35.2	-29 8	9.5	10.1	F8	1	..	13281b	54	2917	35.5	-13 53	4.96	4.79	B3	..	R	56,86
5	7678	35.2	-29 25	7.78	8.9	Ko	6	..	13281b	55	2867	35.5	-15 54	8.4	9.8	Ma	1	..	41239b
6	5478	35.2	-42 25	9.4	7.8	Ao	3	0,7	35949b	56	6613	35.5	-32 29	9.4	8.9	Fo	2	..	13047b
7	5369	35.2	-46 53	9.4	9.3	F8	2	..	39931b	57	5854	35.5	-35 49	10.2	9.6	Ao	1	..	18436b
8	2376	35.2	-55 46	9.2	9.5	Fo	3	..	40105b	58	5953	35.5	-37 16	9.1	9.6	Ko	1	..	18436b
9	1596	35.2	-59 1	9.2	9.3	A5	3	..	40105b	59	5095	35.5	-47 50	9.0	8.5	A2	4	..	39931b
10	2037	35.3	+35 33	8.8	9.4	Go	2	..	38241i	60	4353	35.5	-50 24	8.4	8.9	Ko	3	..	39868b
11	2233	35.3	- 0 56	8.9	10.0	K2	3	..	1934ob	61	4031	35.5	-51 10	9.4	9.2	A3	4	..	39868b
12	2960	35.3	-12 32	7.07	7.49	F5	8	..	21395b	62	2679	35.5	-53 53	8.7	9.2	G5	2	..	39868b
13	2851	35.3	-16 42	8.4	8.7	F2	3	..	41239b	63	1599	35.5	-58 44	7.7	7.7	B9	8	..	40105b
14	2852	35.3	-16 48	9.0	9.5	F8	2	..	41239b	64	1031	35.5	-66 14	8.2	8.2	Ao	5	2,4	40221b
15	8314	35.3	-24 13	9.4	9.3	F2	2	..	13281b	65	858	35.6	+63 23	7.87	7.95	A3	5	..	37517i
16	5711	35.3	-39 44	10.4	9.3	Ao	2	..	39945b	66	1897	35.6	+33 31	8.9	10.3	Ma	..	..	M
17	5712	35.3	-39 46	10.2	9.8	Ao	1	..	39945b	67	2135	35.6	+23 8	9.5	10.3	G5	1	..	38646i
18	5681	35.3	-44 59	9.38	9.6	G5	1	..	39945b	68	2246	35.6	+18 24	8.5	8.9	F5	2	..	37608i
19	4872	35.3	-48 37	8.0	8.0	B9	6	..	39931b	69	2341	35.6	+ 1 29	10.2	10.7	F8	1	..	1934ob
20	4562	35.3	-50 4	7.6	7.6	A2	8	..	39868b	70	2343	35.6	+ 1 0	9.9	10.5	Go	2	..	1934ob
21	4345	35.3	-51 6	9.1	9.5	K5	1	..	39868b	71	2342	35.6	+ 0 58	9.34	9.62	Fo	3	..	1934ob
22	4028	35.3	-52 1	9.6	9.2	A2	3	..	39868b	72	2735	35.6	- 8 20	8.8	9.1	F2	2	..	19137b
23	2195	35.3	-57 25	9.4	10.4	Ko	1	..	40105b	73	2915	35.6	-15 6	9.31	10.31	Ko	1	..	21395b
24	2197	35.3	-58 6	9.5	9.5	Ao	3	..	40105b	74	7502	35.6	-31 42	9.9	9.5	B8	2	..	13047b
25	1099	35.3	-67 32	8.5	9.5	Ko	1	..	40074b	75	6617	35.6	-32 28	8.4	8.3	A5	5	..	13047b
26	354	35.3	-81 14	8.77	9.1	Go	3	..	20869b	76	5855	35.6	-35 38	9.1	9.6	K2	1	..	18436b
27	319	35.4	+79 36	6.13	6.41	Fo	10	5,10	37465i	77	5954	35.6	-37 7	9.4	9.3	F8	2	..	18436b
28	1398	35.4	+56 38	9.3	10.4	K2	2	..	38224i	78	5250	35.6	-41 8	10.0	9.3	Ao	2	..	19157b
29	1795	35.4	+27 35	8.9	9.7	G5	2	..	38646i	79	5308	35.6	-45 19	9.1	9.3	Fo	3	5,2	39931b
30	2198	35.4	+ 6 6	9.0	10.0	Ko	2	..	1934ob	80	5096	35.6	-47 40	9.1	9.0	Fo	3	..	39931b
31	2888	35.4	-10 19	6.19	6.25	A2	10	..	21395b	81	2398	35.6	-56 21	9.0	9.0	Ao	2	..	40105b
32	2913	35.4	-14 44	9.5	9.9	F5	4	..	21395b	82	1267	35.6	-62 53	8.9	8.9	Ao	5	..	40221b
33	2864	35.4	-15 27	9.5	9.9	F5	2	..	21395b	83	617	35.6	-74 29	9.3	9.9	Go	2	..	21453b
34	2776	35.4	-19 22	9.2	9.9	F5	1	..	41239b	84	1399	35.7	+56 8	8.7	9.7	Ko	3	..	38224i
35	7510	35.4	-28 28	7.98	9.4	K5	3	..	13281b	85	1533	35.7	+46 19	9.3	10.1	G5	1	..	38336i
36	7766	35.4	-30 54	9.2	10.1	F8	3	..	22915b	86	2013	35.7	+37 44	7.84	8.40	Go	4	..	38241i
37	6251	35.4	-33 13	9.4	10.1	Ao	2	..	22915b	87	2026	35.7	+31 43	6.08	7.26	K5	7	..	37741i
38	5852	35.4	-36 10	9.3	9.3	Ao	3	..	18436b	88	2130	35.7	+14 35	9.4	9.5	A2	2	..	37610i
39	5851	35.4	-36 14	10.2	9.6	B8	1	..	18436b	89	2076	35.7	+12 0	8.9	9.5	Go	2	..	37610i
40	5399	35.4	-40 14	8.68	8.3	Fo	4	..	39945b	90	2253	35.7	+ 8 39	8.9	9.4	F8	2	..	37610i
41	2657	35.4	-53 0	8.9	9.2	F2	2	..	39868b	91	2229	35.7	+ 4 15	8.6	9.7	K2	3	..	1934ob
42	2393	35.4	-57 5	7.2	7.4	Ao	9	..	40105b	92	2974	35.7	- 6 26	7.8	8.1	Fo	8	..	19137b
43	1441	35.4	-59 36	9.9	9.9	B9	2	..	40105b	93	2914	35.7	-14 42	9.5	10.6	K2	1	..	21395b
44	597	35.4	-75 12	9.68	9.1	A2	5	..	21453b	94	7686	35.7	-30 3	8.00	8.3	A2	7	..	13281b
45	151	35.4	-87 51	6.8	7.6	G5	6	0,5	22578b	95	6619	35.7	-32 39	10.0	9.5	A2	3	..	22915b
46	379	35.5	+77 11	8.6	8.9	F2	5	..	37714i	96	5957	35.7	-37 16	8.4	9.3	Ko	2	..	18436b
47	1895	35.5	+44 6	7.35	8.35	Ko	5	2,4	38336i	97	5252	35.7	-41 13	8.7	8.1	F8	4	..	19157b
48	2218	35.5	+ 4 51	9.26	10.26	Ko	2	..	1934ob	98	5687	35.7	-44 44	9.6	9.6	A2	2	..	39945b
49	2228	35.5	+ 4 10	9.9	10.0	A3	2	..	1934ob	99	5100	35.7	-47 17	9.0	9.3	G5	3	..	39931b
50	2252	35.5	+ 2 57	9.2	10.0	G5	2	..	1934ob	100	2399	35.7	-56 25	9.1	9.8	Go	1	..	40105b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	I443	35.7	-59 50	9.3	10.4	K2	I	..	40105b	51	5104	36.0	-47 33	9.0	8.2	A0	4	..	39931b
2	II43	35.7	-63 21	8.0	8.0	A0	5	..	40221b	52	5105	36.0	-47 47	7.5	8.1	F5	6	..	39931b
3	510	35.8	+71 33	9.6	10.2	G	I	..	37706i	53	2663	36.0	-52 30	7.4	8.6	K2	4	..	39868b
4	I867	35.8	+49 14	7.32	8.32	K0	7	..	38336i	54	2548	36.0	-54 56	10.0	10.1	A2	2	..	39868b
5	224I	35.8	+40 13	5.50	6.50	K0	..	5,7	56,86	55	1145	36.0	-63 40	8.8	9.1	F2	3	..	40221b
6	2039	35.8	+35 1	8.17	8.23	A2	4	..	38241i	56	1796	36.1	+47 56	9.1	10.3	K5	1	..	38336i
7	I797	35.8	+28 25	8.7	9.3	G0	3	..	37741i	57	2865	36.1	-6 8	9.2	9.5	F0	2	..	19137b
8		35.8	+10 21			F5	..	R	1619c	58	2982	36.1	-20 48	9.2	9.9	F8	1	..	41224b
9	2044	35.8	+10 21	3.76	4.18	A3	..			59	7523	36.1	-29 5	9.4	9.9	G5	1	..	13281b
10	2219	35.8	+4 59	9.6	9.9	F0	3	..	19340i	60	6065	36.1	-34 43	8.7	9.0	G0	2	..	13047b
11	2344	35.8	+1 42	9.9	10.5	G0	1	..	19340b	61	5258	36.1	-41 35	8.4	9.3	K0	2	..	19157b
12	5403	35.8	-40 23	7.8	8.0	K0	4	..	19157b	62	5314	36.1	-45 13	9.54	9.6	A0	3	0,2	39931b
13	5498	35.8	-43 51	9.1	10.2	K5	1	..	39945b	63	4882	36.1	-49 3	10.2	9.6	A3	2	..	39931b
14	2544	35.8	-55 2	9.01	10.1	K0	1	..	39868b	64	2693	36.1	-53 49	8.0	8.9	G5	4	..	38408i
15	2400	35.8	-56 25	10.0	10.1	A2	1	..	40105b	65	2554	36.1	-54 18	6.9	6.9	B3	..	5,3-	56,127
16	III9	35.8	-66 1	9.0	10.0	K0	4	2,2	21452b	66	2208	36.1	-57 50	7.6	7.7	B8	8	..	40105b
17	856	35.8	-71 15	8.7	9.1	F5	2	..	40074b	67	1120	36.1	-65 47	10.0	10.0	A0	1	..	40074b
18	619	35.8	-74 51	9.0	10.4	Ma	1	..	21453b	68	469	36.2	+71 53	8.8	9.6	G5	2	..	37706i
19	2272	35.9	+39 42	8.72	9.14	F5	2	..	38241i	69	1868	36.2	+48 53	6.34	6.34	A0	9	..	38336i
20	1933	35.9	+29 20	8.31	9.09	G5	3	..	37741i	70	1996	36.2	+41 27	8.1	8.9	G5	4	..	38241i
21	1991	35.9	+26 22	6.43	7.43	K0	6	..	37741i	71	2139	36.2	+13 21	8.3	9.1	G5	2	..	37610i
22	2226	35.9	+9 28	6.84	7.12	F0	7	..	37610i	72	2220	36.2	+5 10	8.1	9.1	K0	6	..	19340b
23	2345	35.9	+1 26	9.4	10.0	G0	1	..	19340b	73	2348	36.2	+0 51	8.94	9.22	F0	4	..	19340b
24	2920	35.9	-13 26	9.9	10.5	G0	1	..	21395b	74	2975	36.2	-7 11	8.2	8.2	A0	7	..	19137b
25	2930	35.9	-18 2	8.6	8.9	F0	4	..	41239b	75	2963	36.2	-12 38	8.1	9.3	K5	3	..	21395b
26	7775	35.9	-30 28	7.43	8.7	K5	5	..	13281b	76	7778	36.2	-30 17	9.2	9.2	A2	3	..	13281b
27	6258	35.9	-33 14	9.6	10.1	G5	2	..	22915b	77	5410	36.2	-40 45	8.8	8.3	A0	4	..	19157b
28	5786	35.9	-38 28	10.0	9.8	G	1	..	18436b	78	5505	36.2	-42 29	10.0	9.3	A3	2	..	19157b
29	5500	35.9	-43 47	9.0	9.3	F5	3	..	39945b	79	4578	36.2	-49 41	7.5	8.0	F0	6	..	39931b
30	5379	35.9	-46 8	9.6	9.9	F5	3	..	39931b	80	4365	36.2	-50 28	9.4	9.0	A0	3	..	39868b
31	R	35.9	-59 27	..	..	K0	1	..	40105b	81	2669	36.2	-52 49	7.4	8.1	B5	7	..	39868b
32	R	35.9	-59 38	Neb.	Neb.	Pd	1	..	76,22	82	2696	36.2	-53 52	9.1	9.3	F0	3	..	38408b
33	I308	35.9	-62 6	7.45	7.1	B9	7	..	40221b	83	2697	36.2	-54 2	8.3	9.5	K0	3	..	38408b
34	II44	35.9	-63 57	6.99	6.6	B5	10	..	40221b	84	1601	36.2	-58 58	10.1	10.1	A0	2	..	40105b
35	968	35.9	-68 29	9.1	10.2	K2	2	..	21452b	85	356	36.2	-81 58	8.9	9.3	F5	3	..	20869b
36	857	35.9	-71 59	9.0	9.1	A5	2	..	22988b	86	1345	36.3	+54 50	6.34	6.40	A2	8	..	38638i
37	529	35.9	-77 54	9.3	9.6	F2	5	..	21453b	87	1537	36.3	+51 3	8.1	8.9	G5	3	E	38638i
38	575	36.0	+70 44	7.9	9.0	K2	3	..	37706i	88	1535	36.3	+45 59	8.7	9.2	F8	3	..	38336i
39	I536	36.0	+51 44	7.34	8.69	Ma	4	0,3	38650i	89	2019	36.3	+34 46	8.37	9.37	K0	2	..	38241i
40	2247	36.0	+18 20	8.7	9.0	F2	3	..	37608i	90	1936	36.3	+29 10	8.6	8.9	F0	4	..	37741i
41	2346	36.0	+1 36	9.6	10.2	G0	2	..	19340b	91	2010	36.3	+16 13	7.9	8.9	K0	3	..	37608i
42	2698	36.0	-11 29	9.0	9.4	F5	5	..	21395b	92	2349	36.3	+0 59	9.4	9.8	F5	2	..	19340b
43	2699	36.0	-11 51	9.2	9.2	A0	4	..	21395b	93	2921	36.3	-13 38	10.4	11.4	K0	1	..	21395b
44	2981	36.0	-21 7	7.6	9.0	K0	4	0,4	13323b	94	6266	36.3	-33 23	8.7	8.9	A5	2	..	13047b
45	2682	36.0	-22 54	8.2	9.6	K5	3	..	13145b	95	4367	36.3	-51 3	8.9	9.2	A2	4	..	39868b
46	7396	36.0	-25 52	9.1	8.7	A0	6	..	13281b	96	2393	36.3	-56 4	8.4	8.1	A0	7	..	40105b
47	7327	36.0	-26 22	8.3	8.7	F2	6	..	13281b	97	2407	36.3	-57 4	8.8	9.5	K0	2	..	40105b
48	6259	36.0	-33 51	8.7	9.6	K2	3	..	22915b	98	1446	36.3	-59 12	9.1	9.9	K0	2	..	40105b
49	5497	36.0	-43 4	7.8	8.4	K0	5	..	19157b	99	1270	36.3	-62 41	9.6	9.7	A3	3	..	40221b
50	5697	36.0	-44 37	9.8	9.9	A0	2	..	39945b	100	1032	36.3	-66 15	8.8	8.8	A0	4	..	21452b

THE HENRY DRAPER CATALOGUE.

9h 36m.3

1919 AnnHar 94...1C 83900

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	969	36.3	-68 41	8.5	9.7	K5	3	5,I	21452b	51	2042	36.7	+35 32	6.03	6.37	F2	8	..	38241i
2	622	36.3	-74 21	8.2	9.4	K5	3	..	21453b	52	2923	36.7	-13 31	9.5	10.6	K2	1	..	21395b
3	623	36.3	-75 0	10.1	10.1	A	1	..	21453b	53	2684	36.7	-23 8	4.74	4.55	B2p	..	3,8 R	56,86
4	362	36.3	-80 46	9.3	10.5	K5	2	E	21453b	54	5708	36.7	-44 9	9.6	9.6	K2	2	..	39945b
5	1356	36.4	+53 34	8.5	8.6	A3	4	..	38638i	55	5709	36.7	-45 7	9.44	9.3	Ao	2	..	39945b
6	2139	36.4	+23 46	8.1	8.6	F8	4	..	37608i	56	2681	36.7	-52 49	9.4	9.5	A2	2	..	39868b
7	2116	36.4	+22 1	8.7	9.5	G5	2	..	37608i	57	2398	36.7	-56 4	9.3	9.3	Ao	3	..	40105b
8	2083	36.4	+11 37	9.0	9.4	F5	1	..	37610i	58	2415	36.7	-56 51	8.9	8.6	B9	4	..	40105b
9	2256	36.4	+ 2 58	9.2	9.7	F8	1	..	19340b	59	2214	36.7	-57 28	8.8	8.9	A2	4	..	40105b
10	2350	36.4	+ 1 20	9.4	9.9	F8	3	..	19340b	60	364	36.7	-80 8	9.8	10.2	F5	3	..	21453b
11	2868	36.4	- 6 10	10.1	10.4	F2	1	..	19137b	61	363	36.8	+76 46	8.7	9.3	Go	4	..	37714i
12	2965	36.4	-12 30	9.7	10.5	G5	1	..	21395b	62	731	36.8	+65 26	6.18	6.52	F2	9	..	37517i
13	2919	36.4	-14 44	9.9	10.3	F5	1	..	21395b	63	1357	36.8	+53 28	8.5	9.0	F8	2	..	38638i
14	8619	36.4	-23 42	8.5	8.2	B8	4	..	13323b	64	2043	36.8	+34 50	8.80	9.36	Go	2	..	38241i
15	6268	36.4	-33 31	9.6	10.4	A5	2	..	22915b	65	2120	36.8	+17 31	8.1	8.1	B9	5	..	37608i
16	5727	36.4	-39 36	8.7	8.1	Ao	3	..	39945b	66	2131	36.8	+14 0	8.6	9.0	F5	2	..	37610i
17	4581	36.4	-49 46	9.1	9.0	F8	3	..	39931b	67	2227	36.8	+ 9 10	9.2	9.6	F5	2	..	37610i
18	2557	36.4	-54 11	10.1	10.1	Ao	2	..	38408b	68	2168	36.8	+ 7 11	8.7	9.1	F5	3	E	37610i
19	1146	36.4	-64 3	7.3	8.3	Ko	7	..	40221b	69	2222	36.8	+ 5 26	8.6	9.4	G5	6	..	19340b
20	1952	36.5	+43 31	8.7	8.8	A2	3	..	38336i	70	2237	36.8	+ 2 32	8.7	9.0	Fo	6	..	19340b
21	2041	36.5	+35 27	8.00	8.50	F8	4	..	38241i	71	2977	36.8	- 6 18	8.7	9.8	K2	3	..	19137b
22	2701	36.5	-11 51	9.7	10.7	Ko	2	..	21395b	72	2978	36.8	- 6 56	9.5	10.3	G5	1	..	19137b
23	2857	36.5	-16 56	8.0	9.2	K5	3	..	41239b	73	2933	36.8	-18 2	7.6	8.1	F8	7	..	41239b
24	7525	36.5	-28 24	8.9	10.2	K5	1	..	13281b	74	5733	36.8	-40 7	9.4	9.3	G5	2	..	39945b
25	7697	36.5	-30 7	9.50	9.6	A2	2	..	13281b	75	4891	36.8	-48 32	8.6	10.0	K5	1	..	39931b
26	7519	36.5	-31 56	8.9	10.1	Ko	3	..	22915b	76	2680	36.8	-52 35	8.4	8.3	Ao	5	..	39868b
27	5863	36.5	-36 43	7.71	7.8	F8	7	..	18436b	77	2416	36.8	-56 49	9.5	9.5	Ao	3	..	40105b
28	2673	36.5	-52 35	8.9	9.3	A2	2	..	39868b	78	429	36.8	-79 25	9.5	9.6	A5	6	..	21453b
29	2704	36.5	-53 52	10.3	10.3	Ao	1	..	38408b	79	365	36.8	-80 30	5.24	5.07	B3	..	2,9 R	56,127
30	1603	36.5	-58 40	9.4	10.2	G5	2	..	40105b	80	859	36.9	+62 51	8.1	8.9	G5	2	..	37517i
31	1602	36.5	-58 52	10.1	9.9	B	2	..	40105b	81	2251	36.9	+18 40	9.0	9.0	A	3	..	37608i
32	1272	36.5	-62 45	8.8	8.8	B8	4	..	40221b	82	2098	36.9	+15 13	8.6	9.6	Ko	2	..	37608i
33	168	36.5	-87 2	9.7	10.9	K5	1	..	22238b	83	2257	36.9	+ 8 2	8.9	9.9	Ko	1	..	9463b
34	1898	36.6	+33 28	7.05	7.83	G5	6	..	37741i	84	2292	36.9	- 1 17	9.2	9.6	F5	5	..	22970b
35	1993	36.6	+26 4	7.8	8.8	Ko	3	..	37741i	85	2870	36.9	- 5 26	9.0	9.1	A2	3	..	19137b
36	2744	36.6	- 3 49	8.0	9.2	K5	3	..	22970b	86	2702	36.9	-12 10	7.6	7.9	Fo	7	..	21395b
37	2903	36.6	-10 3	7.46	8.53	K2	5	..	21395b	87	2862	36.9	-17 10	9.1	9.4	Fo	3	..	41239b
38	8622	36.6	-23 28	9.4	9.3	G5	2	..	13145b	88	2934	36.9	-17 26	8.8	9.6	G5	2	..	41239b
39	6828	36.6	-27 24	8.3	9.9	Ko	1	..	13281b	89	2882	36.9	-21 20	8.2	9.0	F5	2	R	13323b
40	7699	36.6	-29 29	9.7	9.8	A	1	..	13281b	90	7705	36.9	-29 31	9.2	10.1	A3	1	..	13281b
41	2678	36.6	-52 56	8.3	8.3	A3	5	..	39868b	91	7526	36.9	-31 8	9.4	9.5	A	1	..	13047b
42	2565	36.6	-54 20	9.1	9.5	F5	3	0,2	38408b	92	7528	36.9	-32 4	9.7	10.4	Ao	1	..	22915b
43	2212	36.6	-57 52	10.2	11.2	K	1	..	40105b	93	6641	36.9	-32 28	8.1	10.1	K5	1	..	13047b
44	1477	36.6	-60 53	4.67	4.65	B9	..	R	28,203	94	5868	36.9	-35 35	7.33	8.2	F8	6	..	13116b
45	1313	36.6	-62 6	7.37	7.3	B8	7	..	40221b	95	5400	36.9	-46 53	9.8	10.1	Fo	1	..	39931b
46	1051	36.6	-64 33	8.7	9.2	F8	3	..	40221b	96	5116	36.9	-47 57	9.1	10.2	K5	1	..	39931b
47	1034	36.6	-66 13	8.7	9.1	F5	3	0,3	21452b	97	4053	36.9	-51 42	9.8	9.5	Ao	1	..	39868b
48	1033	36.6	-66 25	7.64	7.6	Fo	7	..	40221b	98	2401	36.9	-55 16	8.06	8.0	A2	7	..	40105b
49	1258	36.7	+59 36	8.8	8.9	A2	1	..	38224i	99	1605	36.9	-58 23	9.9	9.9	Ao	2	..	40105b
50	1400	36.7	+56 25	var.	var.	Go	4	R	38638i	100	1606	36.9	-58 50	8.1	7.8	A5	7	..	40105b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1277	36.9	-62 48	7.3	7.3	B9	8	..	40221b	51	2873	37.3	- 5 46	9.5	9.9	F5	4	..	19137b
2	531	36.9	-77 28	9.8	10.8	Ko	1	..	21453b	52	2971	37.3	-12 28	8.4	8.7	Fo	5	..	21395b
3	2016	37.0	+37 36	7.47	8.54	K2	4	..	38241i	53	2938	37.3	-17 28	9.2	9.6	F5	1	..	41239b
4	1920	37.0	+32 44	7.18	7.52	F2	7	..	37741i	54	2686	37.3	-22 47	9.2	10.2	K5	1	..	13145b
5	1898	37.0	+30 35	6.68	6.82	A5	..	5.9	56,86	55	5723	37.3	-44 23	8.5	9.9	K5	1	..	39945b
6	2238	37.0	+ 2 14	10.6	11.7	K2	1	..	19340b	56	5722	37.3	-44 43	9.6	9.9	Ao	2	..	39945b
7	2891	37.0	-10 47	9.1	9.4	F2	3	..	21395b	57	4061	37.3	-51 51	9.6	9.3	Ao	2	..	39868b
8	2924	37.0	-13 14	9.2	10.2	Ko	2	..	21395b	58	2422	37.3	-56 19	9.4	9.5	A2	2	..	40105b
9	2863	37.0	-16 17	9.7	10.9	K5	1	..	41239b	59	1754	37.4	+45 11	7.57	7.91	F2	4	..	38336i
10	7411	37.0	-25 27	8.7	9.0	Fo	4	..	13281b	60	2750	37.4	- 3 38	8.6	8.7	A5	4	..	22970b
11	6083	37.0	-35 2	8.59	9.6	K5	3	..	22915b	61	2869	37.4	- 7 26	9.2	10.2	Ko	1	..	19137b
12	5878	37.0	-36 26	8.4	9.3	Go	3	..	18436b	62	2868	37.4	- 7 34	9.5	10.0	F8	1	..	19137b
13	5804	37.0	-38 25	9.8	9.8	F8	1	..	18436b	63	2972	37.4	-12 36	8.8	9.6	G5	3	..	21395b
14	5519	37.0	-43 4	10.0	9.8	A2	2	..	39945b	64	2973	37.4	-12 42	9.7	9.8	A3	3	..	21395b
15	1608	37.0	-59 6	10.0	10.1	A2	1	..	40105b	65	2922	37.4	-14 35	10.6	11.0	F5	1	..	21395b
16	972	37.0	-68 9	8.8	8.9	A5	3	..	40074b	66	2990	37.4	-20 27	9.2	9.6	Ko	2	..	41224b
17	430	37.0	-79 7	9.8	10.9	K2	1	..	21453b	67	8639	37.4	-23 49	8.9	7.8	B9	5	..	13323b
18	431	37.0	-79 18	9.9	10.9	Ko	1	..	21453b	68	5275	37.4	-41 31	7.6	8.0	Ko	4	..	19157b
19	313	37.1	+81 25	9.3	9.6	Fo	2	..	37465i	69	5274	37.4	-41 43	10.7	9.5	A	1	..	19157b
20	2258	37.1	+ 7 52	8.9	9.5	Go	3	..	9643b	70	5337	37.4	-45 56	7.9	9.0	Ko	5	..	39931b
21	2239	37.1	+ 2 46	7.9	9.0	K2	5	..	19340b	71	5123	37.4	-47 21	9.0	9.0	Fo	3	..	39931b
22	2748	37.1	- 3 33	8.2	9.4	K5	4	..	22970b	72	2426	37.4	-56 17	8.9	10.4	K5	1	..	40105b
23	2872	37.1	- 5 56	9.7	9.8	A2	2	..	19137b	73	1319	37.4	-61 55	9.1	9.4	F8	2	..	40221b
24	2967	37.1	-12 59	9.2	10.6	Mb	..	..	M	74	1052	37.4	-64 33	9.2	10.0	G5	1	..	40221b
25	2921	37.1	-14 59	8.6	9.6	Ko	5	..	21395b	75	534	37.4	-77 54	8.7	9.3	Go	7	..	21453b
26	2936	37.1	-17 20	8.7	9.0	Fo	6	..	41239b	76	151	37.5	+84 51	8.38	8.88	F8	3	..	37546i
27	2785	37.1	-19 54	8.7	9.9	Ko	2	0,1	41224b	77	1800	37.5	+27 40	8.7	9.7	Ko	2	..	38646i
28	8633	37.1	-23 46	9.9	10.2	K2	1	..	13145b	78	2241	37.5	+ 2 15	7.9	9.2	Fo	5	..	19340b
29	5742	37.1	-39 16	8.7	8.4	Ao	3	..	39945b	79	2874	37.5	- 5 25	9.2	9.3	A5	4	..	19137b
30	5523	37.1	-42 43	9.6	9.5	A2	2	..	19157b	80	2871	37.5	- 7 37	9.33	9.89	Go	2	..	19137b
31	2714	37.1	-53 56	8.5	8.4	A2	6	..	38408b	81	2873	37.5	-15 28	8.2	9.2	Ko	3	..	41239b
32	2219	37.1	-57 58	9.9	10.9	Ko	1	..	40105b	82	2874	37.5	-15 32	8.8	8.8	Ao	5	..	41239b
33	1102	37.1	-67 7	7.8	8.8	Ko	4	..	40074b	83	8641	37.5	-23 15	8.5	8.0	Fo	4	..	13323b
34	1327	37.2	+54 14	9.3	10.7	Ma	2	..	38650i	84	7711	37.5	-29 39	9.7	8.9	A2	3	..	13281b
35	1953	37.2	+43 11	8.1	9.2	K2	3	..	38336i	85	7712	37.5	-29 51	6.77	8.3	Ko	7	..	13281b
36	1922	37.2	+32 4	8.8	9.1	Fo	2	..	37741i	86	7537	37.5	-31 44	8.5	8.3	A2	4	..	13047b
37	2121	37.2	+24 3	8.7	9.5	G5	2	..	37608i	87	6653	37.5	-32 7	9.1	9.8	Go	3	..	22915b
38	2867	37.2	- 7 18	8.2	8.8	Go	4	..	19137b	88	6086	37.5	-34 25	9.0	9.3	A5	1	..	13047b
39	2786	37.2	-19 43	8.6	9.9	G5	3	5,1	41224b	89	5987	37.5	-38 2	8.1	8.7	G5	4	..	13116b
40	7415	37.2	-25 31	8.5	9.0	F8	4	..	13281b	90	5277	37.5	-41 40	9.1	8.6	Ao	4	..	19157b
41	7536	37.2	-28 56	9.7	9.3	A5	2	..	13281b	91	5276	37.5	-41 58	10.4	9.8	Ao	1	..	39945b
42	6646	37.2	-32 57	7.00	7.3	Ao	9	..	13047b	92	2725	37.5	-53 37	9.4	10.4	Ko	1	..	38408b
43	5524	37.2	-42 29	9.0	8.9	F8	3	..	19157b	93	2421	37.5	-55 9	9.37	9.3	Ao	4	..	40105b
44	5336	37.2	-45 43	7.8	9.3	K2	5	0,3	39931b	94	2225	37.5	-57 38	10.7	10.7	Ao	2	..	40105b
45	4896	37.2	-48 46	10.0	9.2	Ao	3	..	39931b	95	2226	37.5	-57 59	8.9	8.9	B8	4	..	40105b
46	1279	37.2	-62 30	6.72	6.4	B8	9	..	40221b	96	1095	37.5	-69 25	9.4	9.4	Ao	2	..	40074b
47	625	37.2	-74 21	9.1	9.1	Ao	4	..	21453b	97	1871	37.6	+49 29	9.1	10.1	Ko	1	..	38650i
48	432	37.2	-79 45	9.7	10.8	K2	1	..	21453b	98	2084	37.6	+21 22	8.8	9.6	G5	1	..	37608i
49	2240	37.3	+ 2 36	9.9	10.5	Go	1	..	19340b	99	2983	37.6	- 6 36	9.7	10.8	K2	1	..	19137b
50	2546	37.3	+ 0 10	6.76	7.76	Ko	6	..	21505b	100	2698	37.6	-52 50	9.2	9.3	A2	1	..	39868b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2579	37.6	-54 32	7.2	7.2	B8	5	0,9	4447ob	51	2434	37.9	-56 34	9.7	9.8	A2	1	..	40105b
2	2429	37.6	-56 24	9.1	10.1	K2	2	..	40105b	52	2435	37.9	-56 48	5.83	7.3	Ko	..	..	56,127
3	2430	37.6	-56 40	8.9	10.1	Ko	2	..	40105b	53	1611	37.9	-58 35	7.4	8.4	Ko	7	0,2	40105b
4	2227	37.6	-57 58	9.5	9.5	B9	2	..	40105b	54	1321	37.9	-61 23	9.6	9.7	A2	2	..	40221b
5	1680	37.7	+49 53	8.47	8.55	A3	2	..	3865oi	55	536	37.9	-77 48	9.6	10.6	Ko	1	..	21453b
6	2022	37.7	+34 34	7.34	8.34	Ko	4	E	3774ii	56	1416	38.0	+51 51	9.0	10.0	Ko	2	..	38638i
7	1901	37.7	+30 27	5.73	5.79	A2	..	0,R	56,86	57	2351	38.0	+0 58	10.2	10.3	A3	2	..	13393b
8	2141	37.7	+25 4	8.8	9.3	F8	4	..	38642i	58	2742	38.0	-8 41	9.0	10.1	K2	1	..	19137b
9	2123	37.7	+24 15	8.9	10.0	K2	1	..	38642i	59	2897	38.0	-10 14	9.41	9.47	A2	3	..	21395b
10	2258	37.7	+18 14	7.9	7.9	B9	4	..	37608i	60	2689	38.0	-22 58	9.5	9.6	Ao	2	..	13145b
11	2133	37.7	+14 36	8.9	9.4	F8	2	..	3761oi	61	7354	38.0	-26 59	9.5	10.5	Ko	1	..	13281b
12	2229	37.7	+9 16	8.3	8.4	A3	3	..	3761oi	62	5887	38.0	-36 57	8.0	8.7	F8	5	..	18436b
13	2225	37.7	+5 29	8.7	9.0	Fo	5	..	1934ob	63	1480	38.0	-60 48	8.5	8.8	Ao	4	..	40221b
14	2875	37.7	-15 24	8.8	9.8	Ko	3	..	41239b	64	1105	38.0	-67 21	9.2	10.2	Ko	1	0,1	21452b
15	2760	37.7	-18 19	9.2	9.2	Ao	3	..	41239b	65	630	38.1	+66 5	7.22	8.57	Ma	5	..	37517i
16	2790	37.7	-20 1	8.6	9.6	K2	3	2,2	41224b	66	1417	38.1	+52 31	8.8	9.8	Ko	2	..	3865oi
17	8646	37.7	-23 28	5.04	5.60	Go	..	5,7	56,86	67	2984	38.1	-6 41	9.7	10.3	Go	1	..	19137b
18	8647	37.7	-23 59	9.2	10.0	K2	1	..	13145b	68	2943	38.1	-18 12	9.5	10.1	Go	2	..	41224b
19	4389	37.7	-50 29	8.8	9.6	K5	1	..	39868b	69	2993	38.1	-20 31	8.8	9.9	Ko	1	..	41224b
20	4391	37.7	-50 42	8.5	8.9	F5	4	..	39868b	70	5431	38.1	-40 10	9.14	9.3	G5	2	..	39945b
21	2228	37.7	-57 32	5.36	5.4	A2	..	..	56,127	71	5281	38.1	-41 49	7.2	7.7	Ao	4	0,9	35947b
22	848	37.7	-72 14	9.1	9.1	Ao	2	..	40074b	72	5537	38.1	-42 54	8.5	9.3	K2	3	0,2	39945b
23	2041	37.8	+42 31	6.82	6.90	A3	7	R	38336i	73	5347	38.1	-45 33	8.5	9.3	G5	3	5,2	39931b
24	2366	37.8	+20 39	7.00	8.00	Ko	7	..	37608i	74	4075	38.1	-52 5	7.9	8.3	A2	6	..	39868b
25	2085	37.8	+10 57	8.5	8.8	Fo	3	..	3761oi	75	2738	38.1	-53 58	9.8	9.8	Ao	2	..	38408b
26	2294	37.8	-1 47	8.7	9.7	Ko	2	..	2297ob	76	2428	38.1	-55 37	9.0	10.1	K2	2	3,1	40105b
27	2873	37.8	-7 39	var.	var.	Mb	5	R	55,15	77	1612	38.1	-58 41	8.4	9.3	Ko	3	..	40105b
28	2894	37.8	-10 25	8.4	9.4	Ko	3	..	21395b	78	1613	38.1	-58 46	9.0	9.0	B9	3	..	40105b
29	2926	37.8	-13 31	7.60	7.60	Ao	7	..	21395b	79	752	38.2	+64 7	6.50	6.84	F2	8	..	37517i
30	2925	37.8	-14 32	9.0	9.8	G5	4	..	21395b	80	2275	38.2	+38 54	8.7	9.7	Ko	2	..	38241i
31	2927	37.8	-14 34	8.5	8.6	A2	8	..	21395b	81	2046	38.2	+35 10	7.94	9.29	Ma	2	..	38241i
32	2992	37.8	-20 40	8.17	9.0	F8	6	0,5	41224b	82	2134	38.2	+13 54	7.18	8.18	Ko	4	..	3761oi
33	6657	37.8	-32 11	8.0	9.8	K5	1	..	13047b	83	2087	38.2	+10 59	6.84	7.26	F5	7	..	3761oi
34	5886	37.8	-36 37	7.8	8.2	Ao	7	..	13116b	84	2261	38.2	+3 5	7.32	7.82	F8	8	..	1934ob
35	5344	37.8	-46 4	10.0	9.6	A5	1	..	39931b	85	2876	38.2	-6 10	7.9	9.0	K2	7	..	19137b
36	4902	37.8	-48 9	9.1	8.9	B3	2	..	39931b	86	2691	38.2	-22 51	9.5	9.9	Go	1	..	13145b
37	4068	37.8	-51 11	7.8	8.4	A2	7	..	39868b	87	5348	38.2	-45 56	8.8	9.6	G5	2	..	39931b
38	2229	37.8	-57 36	9.7	9.8	A3	2	..	40105b	88	5420	38.2	-46 12	8.6	9.6	Ko	3	..	39931b
39	1320	37.8	-62 4	8.9	9.1	F8	3	..	40221b	89	4612	38.2	-49 20	9.2	9.5	Ko	1	..	39931b
40	1280	37.8	-62 33	8.4	8.4	B9	4	..	40221b	90	2431	38.2	-55 15	9.5	9.5	Ao	3	..	40105b
41	849	37.8	-72 15	9.1	9.2	A2	2	..	22988b	91	1053	38.2	-64 39	8.2	8.2	Ao	6	..	40221b
42	1260	37.9	+58 54	8.5	9.0	F8	4	..	38224i	92	1206	38.3	+60 8	9.3	9.7	F5	1	..	38224i
43	1358	37.9	+53 16	8.5	8.9	F5	3	..	38638i	93	1876	38.3	+49 4	8.7	9.7	Ko	3	..	38336i
44	2023	37.9	+33 51	8.5	9.1	Go	2	..	38241i	94	2136	38.3	+14 29	5.62	6.97	Ma	9	R	3761oi
45	2927	37.9	-13 40	9.0	10.0	Ko	2	..	21395b	95	2082	38.3	+12 37	8.3	9.5	K5	2	..	3761oi
46	2928	37.9	-14 12	9.9	10.3	F5	2	..	21395b	96	2206	38.3	+6 40	8.3	8.7	F5	3	E	3761oi
47	6852	37.9	-27 47	7.9	9.7	K2	3	..	13281b	97	2877	38.3	-5 34	9.1	9.4	Fo	3	..	19137b
48	6089	37.9	-34 23	9.1	9.3	A	1	..	13047b	98	2929	38.3	-13 26	8.8	9.8	Ko	3	..	21395b
49	4070	37.9	-51 25	9.6	9.3	A3	3	..	39868b	99	2693	38.3	-22 30	7.8	8.4	F2	5	..	13323b
50	2731	37.9	-53 47	9.7	9.8	A2	1	..	38408b	100	7360	38.3	-26 39	8.9	10.2	Ko	1	..	13281b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5886	38.3	-35 7	7.84	8.1	Ao	5	..	13116b	51	2452	38.8	-56 55	9.3	10.3	Ko	2	..	40105b
2	2441	38.3	-57 4	9.5	9.5	B9	3	..	40105b	52	2251	38.9	+19 20	6.64	7.64	Ko	8	..	37608i
3	2233	38.3	-58 4	9.8	10.1	Fo	1	..	40105b	53	2547	38.9	+ 0 2	9.2	10.2	Ko	3	..	22970b
4	1614	38.3	-58 57	9.2	10.2	Ko	1	..	40105b	54	2911	38.9	- 9 32	8.8	9.6	G5	3	..	19137b
5	321	38.4	+78 18	9.5	9.8	F	1	..	37493i	55	2873	38.9	-16 46	9.7	10.5	G5	1	..	41224b
6	1939	38.4	+29 16	8.7	9.7	Ko	1	..	37529i	56	2871	38.9	-16 58	8.6	9.7	K2	5	..	41224b
7	1996	38.4	+25 49	9.5	10.1	Go	1	..	38642i	57	2795	38.9	-19 55	6.70	7.8	Ko	8	5,8	13323b
8	2137	38.4	+14 16	8.9	9.5	G	2	..	37610i	58	6873	38.9	-27 42	10.4	10.5	Ao	1	..	13281b
9	2261	38.4	+ 8 25	8.1	8.7	Go	4	..	37610i	59	4405	38.9	-50 43	8.9	8.4	Ao	5	..	39868b
10	2985	38.4	- 6 22	8.4	8.5	A3	8	..	19137b	60	1450	38.9	-59 29	9.8	10.8	Ko	1	..	40105b
11	2899	38.4	-11 6	9.0	9.1	A2	4	..	21395b	61	1124	38.9	-65 38	7.4	8.2	G5	7	..	40221b
12	2995	38.4	-20 28	9.2	9.9	G5	1	..	41224b	62	1035	38.9	-66 48	9.6	9.7	A2	2	..	40074b
13	7553	38.4	-31 16	9.7	9.2	Fo	3	..	22915b	63	433	38.9	-79 23	9.1	9.7	Go	7	..	21453b
14	5136	38.4	-47 13	9.6	9.6	Ao	3	..	39931b	64	1419	39.0	+52 21	9.3	10.3	Ko	1	..	38650i
15	4910	38.4	-48 39	9.1	8.9	A2	3	..	39931b	65	1942	39.0	+29 10	7.68	7.82	A5	7	..	37741i
16	2443	38.4	-56 35	9.0	10.7	K2	1	..	40105b	66	2252	39.0	+19 28	8.3	8.9	G	1	..	37608i
17	1122	38.4	-65 37	8.9	9.7	G5	1	..	40221b	67	2234	39.0	+ 3 54	8.7	9.2	F8	4	..	19340b
18	1262	38.5	+59 19	9.1	9.9	G5	1	..	38224i	68	2987	39.0	- 7 11	9.7	10.3	Go	1	..	19137b
19	1757	38.5	+44 53	8.37	9.15	G5	2	..	38336i	69	2905	39.0	-10 34	9.5	10.3	G5	2	..	21395b
20	2262	38.5	+18 9	8.5	9.3	G5	2	..	37608i	70	2933	39.0	-14 43	8.6	9.0	F5	5	..	21395b
21	2262	38.5	+ 7 58	8.9	10.3	Ma	..	..	M	71	2998	39.0	-21 8	9.2	9.4	Go	2	..	13145b
22	2352	38.5	+ 0 58	8.39	8.67	Fo	6	..	13393b	72	6877	39.0	-28 0	8.7	9.6	Ao	4	..	13281b
23	2879	38.5	-15 52	8.0	9.0	Ko	4	..	41239b	73	7732	39.0	-29 20	8.0	8.9	G5	5	..	13281b
24	6097	38.5	-35 3	6.41	7.3	B9	9	..	13116b	74	7563	39.0	-31 7	8.9	9.2	K2	2	..	22915b
25	5823	38.5	-39 3	9.0	9.0	A	3	E	39945b	75	7565	39.0	-31 20	10.4	10.4	K2	1	..	22915b
26	5139	38.5	-47 39	9.4	9.0	A2	3	..	39931b	76	7566	39.0	-31 48	8.7	9.6	G5	4	..	22915b
27	2745	38.5	-53 46	7.9	8.3	Fo	7	..	39868b	77	1126	39.0	-65 25	9.1	10.2	K2	1	..	40221b
28	2594	38.5	-54 46	6.17	5.8	B5	7	O,R	44470b	78	1125	39.0	-66 7	8.5	8.8	Fo	3	..	40221b
29	410	38.6	+74 7	8.9	9.5	Go	3	..	37714i	79	1098	39.0	-69 50	9.0	9.1	A2	2	..	22988b
30	2962	38.6	- 2 54	8.6	9.2	Go	3	..	22970b	80	1402	39.1	+56 14	9.3	10.3	Ko	1	..	38224i
31	2881	38.6	-16 10	9.5	10.1	Go	2	..	41224b	81	2125	39.1	+16 53	8.9	9.7	G5	3	..	37608i
32	2889	38.6	-21 52	7.8	8.4	F2	4	..	13323b	82	2262	39.1	+ 3 23	8.9	10.0	K2	2	..	19340b
33	8656	38.6	-24 2	8.9	9.4	Ko	2	..	13145b	83	2881	39.1	- 5 43	8.5	9.9	Ma	5	..	19137b
34	6667	38.6	-32 57	7.34	8.0	A2	7	..	13047b	84	2978	39.1	-12 38	9.1	9.7	Go	2	..	21395b
35	5440	38.6	-40 14	8.64	9.2	Ko	3	..	39945b	85	3000	39.1	-20 42	8.2	8.2	B9	7	0,7	13323b
36	2237	38.6	-57 33	8.9	9.2	Ao	4	..	40105b	86	2892	39.1	-21 17	9.9	9.6	A2	2	..	13145b
37	1958	38.7	+43 42	8.1	8.5	F5	3	..	38336i	87	6879	39.1	-27 9	8.5	9.9	Ko	1	..	13281b
38	2048	38.7	+35 26	8.38	8.46	A3	4	..	38241i	88	5893	39.1	-35 12	8.39	9.1	K2	1	..	13116b
39	1940	38.7	+29 1	10.2	10.6	F5	1	..	37741i	89	5293	39.1	-41 16	8.7	8.9	Ao	4	..	19157b
40	2242	38.7	+ 2 32	9.9	10.5	Go	1	..	19340b	90	4922	39.1	-48 28	9.8	9.5	Ko	1	..	39931b
41	2880	38.7	- 5 45	9.2	9.3	A3	2	..	19137b	91	4410	39.1	-50 17	9.6	9.5	A2	2	..	39868b
42	2930	38.7	-13 14	8.0	8.8	G5	5	..	21395b	92	4089	39.1	-51 52	8.8	9.8	K5	1	..	39868b
43	5754	38.7	-44 36	9.4	9.9	A3	2	..	39945b	93	2607	39.1	-54 52	9.5	9.5	B9	3	..	39868b
44	5426	38.7	-46 25	7.1	8.7	Ma	5	..	39931b	94	1451	39.1	-59 23	9.8	10.8	Ko	1	..	40105b
45	2440	38.7	-55 29	9.5	9.5	Ao	2	..	40105b	95	1099	39.1	-69 10	8.9	9.7	G5	1	..	40074b
46	1615	38.7	-58 41	9.7	9.7	B8	1	..	40105b	96	434	39.1	-79 47	9.8	10.6	G5	1	..	21453b
47	1148	38.7	-63 9	8.8	10.0	K5	1	..	40221b	97	1801	39.2	+48 32	9.3	9.9	G	1	..	38336i
48	2890	38.8	-21 40	9.0	9.6	G5	2	..	13145b	98	2227	39.2	+ 5 24	8.6	8.9	Fo	3	..	9463b
49	6868	38.8	-28 2	9.9	9.7	Ao	2	..	13281b	99	2243	39.2	+ 2 26	7.9	8.9	Ko	6	..	19340b
50	5896	38.8	-36 31	7.5	9.1	Ma	3	..	18436b	100	2354	39.2	+ 1 32	9.0	10.1	K2	3	..	19340b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2548	39.2	+ 0 10	9.2	9.2	Ao	2	..	2297ob	51	2939	39.6	-13 22	9.0	10.0	Ko	2	..	21395b
2	2885	39.2	-16 1	9.2	10.0	G5	3	..	41224b	52	8402	39.6	-24 31	8.5	9.0	F8	4	..	13145b
3	7376	39.2	-26 43	8.9	9.6	F8	2	..	13281b	53	7741	39.6	-29 52	8.1	8.9	G5	5	..	22915b
4	7562	39.2	-28 42	8.1	8.7	Ao	5	..	13281b	54	5454	39.6	-40 43	8.0	8.9	G5	2	..	19157b
5	5552	39.2	-42 49	8.6	8.3	F8	4	..	19157b	55	4633	39.6	-49 44	10.2	9.6	Ao	2	..	39931b
6	5764	39.2	-44 34	9.4	9.3	A2	3	..	39945b	56	2733	39.6	-52 33	9.7	9.8	A2	1	..	39868b
7	2727	39.2	-53 7	8.9	8.9	B9	4	..	39868b	57	2734	39.6	-52 39	8.8	9.2	Fo	3	..	39868b
8	1453	39.2	-59 7	8.5	8.1	B8	6	..	40105b	58	2771	39.6	-53 47	10.1	10.1	Ao	2	..	38408b
9	1452	39.2	-60 6	8.9	9.4	F5	3	..	40105b	59	2618	39.6	-54 19	8.4	7.8	B8	8	..	38408b
10	392	39.3	+75 36	9.6	10.1	F8	2	..	37714i	60	2455	39.6	-55 56	9.6	10.1	F8	2	..	40105b
11	2935	39.3	-13 16	8.4	9.4	Ko	4	..	21395b	61	2254	39.6	-57 39	8.3	8.3	B8	7	..	40105b
12	2698	39.3	-22 19	8.5	9.0	G5	2	..	13323b	62	1456	39.6	-59 38	9.1	9.0	A2	5	..	40105b
13	8672	39.3	-23 40	10.2	9.3	Ao	3	..	13145b	63	2062	39.7	+38 22	8.9	9.9	Ko	1	..	3824i
14	7445	39.3	-25 30	9.2	9.4	G5	1	..	13145b	64	2238	39.7	+ 3 50	8.4	9.4	Ko	4	..	1934ob
15	4627	39.3	-49 41	8.3	9.3	Ko	2	..	39931b	65	2948	39.7	-18 5	10.1	10.1	Ao	1	..	41224b
16	2244	39.3	-57 7	8.9	10.9	K5	1	..	40105b	66	7381	39.7	-26 12	9.2	9.0	A3	3	..	13281b
17	1486	39.3	-60 35	9.0	9.1	A2	2	..	40221b	67	6881	39.7	-27 19	4.98	5.40	F5p	..	R	56,86
18	1325	39.3	-61 23	9.5	9.9	F5	1	..	40221b	68	7743	39.7	-29 45	9.7	9.6	Ao	3	..	22915b
19	1036	39.3	-66 17	8.5	8.8	F2	3	..	40221b	69	5458	39.7	-40 48	7.6	8.6	K2	3	..	19157b
20	1802	39.4	+28 14	7.40	7.68	Fo	7	..	37741i	70	4937	39.7	-48 35	9.8	9.2	A5	2	..	39931b
21	2236	39.4	+ 3 49	7.24	8.31	K2	7	..	1934ob	71	2773	39.7	-54 2	10.0	10.1	A3	2	..	38408b
22	2964	39.4	- 2 45	9.0	10.0	Ko	1	..	2297ob	72	2461	39.7	-56 9	9.8	9.8	Ao	2	..	40105b
23	2712	39.4	-11 25	8.4	9.0	Go	2	..	21395b	73	1129	39.7	-65 58	9.1	10.1	Ko	1	..	40074b
24	2936	39.4	-13 34	8.7	9.0	F2	5	..	21395b	74	1110	39.7	-67 29	9.0	9.0	Ao	4	..	40074b
25	2767	39.4	-19 4	8.6	9.1	F8	4	0,3	41224b	75	1111	39.7	-68 3	7.0	7.0	B8	4	0,9	4821b
26	4094	39.4	-51 35	9.8	9.2	Go	2	..	39868b	76	2242	39.8	- 0 19	9.23	10.01	G5	2	..	2297ob
27	4096	39.4	-51 43	9.8	9.6	Go	1	..	39868b	77	2704	39.8	-22 45	9.2	9.6	F8	1	..	13145b
28	2730	39.4	-52 30	9.7	9.8	A2	1	..	39868b	78	6685	39.8	-32 40	8.8	8.6	Ao	3	..	13047b
29	2767	39.4	-53 28	9.0	10.7	Ma	2	..	38408b	79	6115	39.8	-34 38	8.4	9.6	K	1	..	13047b
30	2452	39.4	-55 23	7.36	7.8	G5	8	..	40105b	80	5562	39.8	-43 6	9.0	8.6	F5	3	..	19157b
31	1454	39.4	-59 50	9.1	9.1	B9	4	..	40105b	81	2457	39.8	-55 52	9.5	9.5	Ao	2	..	40105b
32	1285	39.4	-62 14	8.1	8.1	Ao	5	..	40221b	82	1623	39.8	-58 8	9.4	9.4	B9	3	..	40105b
33	1107	39.4	-67 59	8.8	8.8	Ao	3	..	40074b	83	1622	39.8	-58 46	10.1	10.1	Ao	1	..	40105b
34	152	39.4	-87 29	9.1	9.4	Fo	3	..	22238b	84	1457	39.8	-59 52	8.9	8.8	Ao	5	..	40105b
35	1231	39.5	+57 35	5.36	6.71	Ma	7	..	38638i	85	1490	39.8	-60 42	8.2	9.0	Ko	3	..	40221b
36	2175	39.5	+ 7 37	9.6	9.9	F2	3	..	9463b	86	1038	39.8	-66 11	9.1	10.2	K2	1	..	40074b
37	2759	39.5	- 4 12	7.66	7.72	A2	7	..	2297ob	87	366	39.9	+76 11	9.5	10.1	Go	2	..	37714i
38	2883	39.5	- 5 58	9.5	10.0	F8	2	..	19137b	88	2253	39.9	+40 17	7.17	7.51	F2	6	..	38241i
39	2979	39.5	-13 0	9.2	10.2	Ko	1	..	21395b	89	2232	39.9	+ 9 11	8.5	9.3	G5	4	..	3761oi
40	1619	39.5	-59 5	8.8	9.6	Ko	2	..	40105b	90	2244	39.9	+ 2 20	9.2	10.0	G5	3	..	1934ob
41	1488	39.5	-61 5	9.1	10.2	K5	1	..	40221b	91	2989	39.9	- 6 14	8.0	8.0	B9	9	..	19137b
42	1037	39.5	-66 41	9.5	10.0	F8	1	..	40074b	92	2713	39.9	-11 12	8.0	9.0	Ko	5	..	21395b
43	931	39.5	-70 12	9.1	9.1	Ao	2	..	22988b	93	2801	39.9	-19 28	9.2	9.9	Go	1	..	41224b
44	539	39.5	-77 23	9.5	10.6	K2	1	..	21453b	94	2800	39.9	-19 52	9.5	9.6	A2	3	..	41224b
45	1545	39.6	+46 21	8.7	9.9	K5	1	..	38336i	95	7383	39.9	-26 59	8.3	9.3	Ko	3	..	13281b
46	2050	39.6	+34 58	var.	var.	Md	5	R	M	96	5783	39.9	-39 37	8.4	8.9	Ao	4	..	39945b
47	2128	39.6	+23 56	6.77	7.77	Ko	7	..	37608i	97	5566	39.9	-42 18	10.0	9.6	A2	2	..	39945b
48	2094	39.6	+11 16	8.90	10.25	Ma	..	..	M	98	5563	39.9	-42 24	8.9	8.7	F5	4	..	19157b
49	2884	39.6	- 5 38	9.7	10.2	F8	2	..	19137b	99	5563	39.9	-43 47	8.8	9.6	K5	1	..	19157b
50	2885	39.6	- 5 49	9.0	10.0	Ko	6	..	19137b	100	4420	39.9	-50 46	6.46	6.5	B8	6	3,9	42951b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4104	39.9	-51 29	9.2	9.2	A2	2	..	39868b	51	436	40.2	-79 54	7.8	7.8	B9	5	0,10	13465b
2	2463	39.9	-57 7	8.5	8.9	A0	6	..	40105b	52	1548	40.3	+46 3	8.7	9.2	F8	2	..	38336i
3	2259	39.9	-57 58	10.1	10.4	F2	1	..	40105b	53	1762	40.3	+45 35	6.80	7.80	K0	5	..	38336i
4	1492	39.9	-60 46	9.1	9.4	A0	2	..	40221b	54	2096	40.3	+21 48	8.7	9.3	G	2	..	37608i
5	1289	39.9	-62 18	7.8	8.1	F0	7	..	40221b	55	2254	40.3	+19 9	6.92	7.92	K0	7	..	37608i
6	861	40.0	+63 43	6.94	7.72	G5	6	..	37517i	56	2880	40.3	-16 31	9.7	10.3	G0	2	..	41224b
7	2233	40.0	+ 9 21	7.9	8.3	F5	7	..	37610i	57	2899	40.3	-21 59	9.2	9.6	G0	1	..	13145b
8	2940	40.0	-13 29	9.5	10.1	G0	2	..	21395b	58	6895	40.3	-27 10	7.02	7.7	F0	3	0,8	7734b
9	2890	40.0	-15 44	9.2	9.6	F5	5	..	41224b	59	7595	40.3	-31 53	11.4	10.7	A0	1	..	22915b
10	2878	40.0	-16 23	8.5	8.5	A0	6	..	41224b	60	5784	40.3	-44 9	8.0	8.4	A2	8	..	19157b
11	2877	40.0	-16 33	9.2	10.2	K0	3	..	41224b	61	2788	40.3	-53 26	5.71	5.4	A0	..	0,7 R	42951b
12	2705	40.0	-22 18	6.78	8.1	G5	7	..	13323b	62	2470	40.3	-56 30	7.4	7.7	B8	8	..	40105b
13	5369	40.0	-45 16	9.24	9.3	F8	2	..	39945b	63	2467	40.3	-57 0	9.4	9.5	A3	4	..	40105b
14	4425	40.0	-51 4	9.0	9.2	G5	2	..	39868b	64	1464	40.3	-59 34	7.4	7.3	B8	8	..	40105b
15	2632	40.0	-54 34	8.9	9.0	A5	5	..	38408b	65	1061	40.3	-65 3	9.5	9.6	A2	3	..	40221b
16	1042	40.0	-66 28	6.66	6.9	A0	10	..	40221b	66	1102	40.3	-69 8	9.4	9.4	A0	2	..	40074b
17	2095	40.1	+21 18	9.5	10.1	G	1	..	37608i	67	592	40.3	-76 19	10.1	10.2	A5	2	..	21453b
18	2049	40.1	+10 41	7.5	8.7	K5	4	..	37610i	68	1142	40.4	+60 52	9.0	10.0	K0	2	..	38224i
19	2245	40.1	+ 2 46	9.0	10.0	K0	2	..	19340b	69	1804	40.4	+28 14	9.1	9.6	F8	2	..	37741i
20	2551	40.1	+ 0 0	7.53	8.53	K0	8	..	13393b	70	2881	40.4	- 7 25	9.7	9.7	A0	2	..	19137b
21	2891	40.1	-15 51	9.5	10.5	K0	1	..	41224b	71	2938	40.4	-14 32	8.7	9.0	F2	4	..	18996b
22	2892	40.1	-16 5	9.5	10.5	K0	1	..	41224b	72	3006	40.4	-20 51	9.9	9.9	G5	1	..	13145b
23	2952	40.1	-17 14	7.09	8.16	K2	7	..	41224b	73	2708	40.4	-23 1	8.0	8.1	A0	7	..	13323b
24	2770	40.1	-18 59	7.8	8.8	K0	5	0,3	41224b	74	..	40.4	-23 34	var.	var.	Md	..	R	M
25	2897	40.1	-21 30	9.0	9.6	K5	2	..	13145b	75	7393	40.4	-26 55	8.3	9.0	F5	4	..	13281b
26	2898	40.1	-21 36	9.2	9.6	F5	2	..	13145b	76	7851	40.4	-30 44	9.1	9.5	F0	3	..	22915b
27	2706	40.1	-22 54	7.52	8.7	K0	4	..	13323b	77	5570	40.4	-43 36	8.9	9.0	B9	5	..	19157b
28	2707	40.1	-23 7	7.82	8.4	G5	4	..	13323b	78	5454	40.4	-46 38	9.1	9.9	K0	1	..	39931b
29	7387	40.1	-26 26	8.1	9.0	F5	5	..	13281b	79	5170	40.4	-47 17	10.0	9.6	A0	1	..	39931b
30	7578	40.1	-29 5	8.3	9.6	K0	2	..	13281b	80	5169	40.4	-47 27	9.0	8.8	F8	3	..	39931b
31	7850	40.1	-30 57	8.7	9.0	F5	4	..	22915b	81	864	40.4	-71 44	9.4	9.4	B9	2	..	22988b
32	6318	40.1	-33 24	8.0	8.4	F5	3	..	13047b	82	394	40.5	+75 26	8.97	9.53	G	2	..	37714i
33	4947	40.1	-48 52	8.3	8.9	K0	3	..	39931b	83	635	40.5	+65 56	9.0	9.8	G5	2	..	38654i
34	4639	40.1	-49 56	8.4	8.4	A3	5	..	39931b	84	2099	40.5	+21 17	8.2	9.0	G5	3	..	37608i
35	2784	40.1	-54 1	8.4	10.1	K5	2	..	38408b	85	2265	40.5	+18 20	7.9	8.7	G5	3	..	37608i
36	2465	40.1	-56 22	9.5	10.3	G5	1	..	40105b	86	2240	40.5	+ 4 1	8.1	8.6	F8	6	..	13393b
37	1462	40.1	-59 41	9.0	9.9	K0	1	..	40105b	87	2882	40.5	- 8 1	7.30	8.30	K0	9	..	19137b
38	322	40.2	+78 23	9.6	9.7	A5	1	..	37493i	88	2981	40.5	-12 45	9.2	9.3	A3	3	..	21395b
39	1944	40.2	+29 20	10.0	10.8	G5	1	..	37529i	89	2806	40.5	-19 12	9.9	9.9	F	1	..	41224b
40	1806	40.2	+27 32	7.9	8.9	K0	3	..	37741i	90	8415	40.5	-24 36	8.7	9.3	K0	2	..	13145b
41	2129	40.2	+24 14	3.12	3.68	Gop	..	R	2312c	91	7461	40.5	-26 6	8.5	9.7	K5	2	..	13281b
42	2239	40.2	+ 4 37	10.6	11.0	F5	2	..	13393b	92	5172	40.5	-48 2	9.1	8.7	A5	4	..	39931b
43	2880	40.2	- 7 29	9.2	10.3	K2	1	..	19137b	93	4432	40.5	-50 55	7.8	7.8	B3	4	..	39868b
44	2879	40.2	-16 32	9.9	10.5	G0	1	..	41224b	94	2268	40.5	-57 59	9.9	10.7	G5	1	..	40105b
45	7750	40.2	-29 9	8.7	10.1	G5	2	..	13281b	95	1264	40.6	+59 47	8.41	9.41	K0	3	..	38224i
46	7592	40.2	-31 56	9.2	9.6	K0	2	..	22915b	96	2101	40.6	+21 47	9.5	10.1	G	2	..	37608i
47	5850	40.2	-39 7	6.70	7.7	A5	10	..	13116b	97	2100	40.6	+20 57	7.44	8.22	G5	5	..	37608i
48	5166	40.2	-47 39	8.3	8.4	A3	5	..	39931b	98	2139	40.6	+13 55	8.9	9.2	F0	2	..	37610i
49	4948	40.2	-48 12	9.6	8.9	A2	3	..	39931b	99	2552	40.6	+ 0 15	8.5	8.6	A3	5	..	13393b
50	4108	40.2	-51 41	9.8	9.5	A0	3	..	39868b	100	2944	40.6	-13 29	10.1	10.5	F5	2	..	21395b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	3009	40.6	m. -20 12	8.18	9.0	G5	5	0,3	41224b	51	5799	40.9	-44 25	8.6	8.7	Ao	7	..	19157b
2	8691	40.6	-23 39	9.4	9.6	Ko	1	..	13145b	52	5182	40.9	-48 5	6.88	6.8	B8	8	..	39864b
3	7463	40.6	-25 49	9.9	9.7	F8	1	..	13281b	53	4438	40.9	-50 48	9.1	9.0	G5	2	..	39868b
4	7855	40.6	-30 41	9.1	9.6	F8	1	..	22915b	54	4119	40.9	-51 48	9.8	9.2	Ao	2	..	39868b
5	7596	40.6	-31 48	8.9	9.5	Fo	4	..	22915b	55	1466	40.9	-59 29	9.9	9.9	B9	1	..	40105b
6	5793	40.6	-44 56	9.8	9.9	Ao	1	..	39945b	56	1156	40.9	-63 26	9.3	9.3	Ao	4	..	40221b
7	4954	40.6	-48 28	9.8	9.2	Fo	2	..	39864b	57	1134	40.9	-65 32	9.6	9.6	Ao	2	..	40221b
8	2805	40.6	-53 38	10.3	10.4	A5	2	..	38408b	58	736	41.0	+65 22	7.08	7.50	F5	8	..	37517i
9	2804	40.6	-53 46	9.2	9.5	Fo	3	..	38408b	59	2044	41.0	+31 36	9.1	10.1	Ko	1	..	37529i
10	2644	40.6	-54 21	9.5	9.5	Ao	2	..	38408b	60	1808	41.0	+27 23	8.7	8.8	A2	3	..	37741i
11	2642	40.6	-54 36	8.8	8.9	A2	5	..	38408b	61	2090	41.0	+12 17	5.87	7.05	K5	8	..	37610i
12	1625	40.6	-58 12	9.2	9.3	A2	2	..	40105b	62	2243	41.0	+4 27	9.2	9.3	A3	3	..	13393b
13	1113	40.6	-67 59	8.3	9.7	Ma	2	..	40074b	63	2300	41.0	-2 8	7.97	8.97	Ko	5	..	22970b
14	2241	40.7	+4 6	9.2	9.7	F8	3	..	13393b	64	2771	41.0	-19 7	8.4	9.0	F2	6	3,3	41224b
15	2299	40.7	-1 26	7.9	8.3	F5	6	..	22970b	65	2811	41.0	-19 14	9.0	9.3	F2	3	3,2	41224b
16	2890	40.7	-6 5	9.2	10.4	K5	1	..	19137b	66	6907	41.0	-27 57	8.1	9.0	Fo	6	..	13281b
17	2809	40.7	-19 52	8.2	8.7	Fo	6	5,4	41224b	67	7758	41.0	-29 45	6.50	6.1	B2	4	..	7734b
18	7597	40.7	-31 40	9.2	9.6	A2	3	..	22915b	68	6335	41.0	-33 13	8.4	9.5	Ko	1	..	13047b
19	5915	40.7	-37 6	8.7	8.1	A2	6	..	13116b	69	5314	41.0	-41 49	9.3	9.5	G5	1	..	19157b
20	4645	40.7	-49 15	10.0	9.2	B9	2	..	39931b	70	5313	41.0	-42 3	10.0	9.5	A5	2	..	19157b
21	4434	40.7	-50 51	9.4	9.2	A	1	..	39868b	71	4440	41.0	-50 22	8.8	8.9	Ao	4	2,3	39864b
22	4433	40.7	-51 3	9.6	9.0	Ao	2	..	39868b	72	2475	41.0	-55 10	9.16	9.0	F2	4	..	38408b
23	2806	40.7	-53 17	8.0	8.0	B3	5	..	39868b	73	2477	41.0	-56 55	10.7	10.7	Ao	1	..	40105b
24	1465	40.7	-59 58	8.94	8.4	B8	4	..	40105b	74	2277	41.0	-57 28	8.9	8.6	B8	5	..	40105b
25	363	40.7	-81 18	8.58	8.4	A2	6	2,4	20869b	75	1048	41.0	-66 21	9.7	9.8	A3	2	..	40074b
26	1805	40.8	+48 30	8.5	8.6	A3	3	..	38336i	76	1233	41.1	+57 19	9.3	10.3	Ko	1	..	38224i
27	1961	40.8	+42 52	9.1	9.9	G5	1	..	38336i	77	1809	41.1	+27 38	8.6	9.2	Go	2	..	38646i
28	2969	40.8	-2 35	9.0	9.8	G5	1	..	22970b	78	2772	41.1	-18 14	8.0	8.8	G5	6	..	41224b
29	2912	40.8	-10 54	7.6	8.7	K2	5	..	21395b	79	7593	41.1	-29 5	7.6	9.0	Ko	5	..	13281b
30	2941	40.8	-14 58	9.7	10.5	G5	1	..	41224b	80	6709	41.1	-32 13	6.94	7.5	F5	8	..	22915b
31	2896	40.8	-15 55	10.4	10.4	Ao	2	..	41224b	81	6337	41.1	-33 21	8.1	8.3	Ao	4	..	13047b
32	2645	40.8	-54 29	10.1	10.1	Ao	2	..	38408b	82	5475	41.1	-40 43	8.7	8.6	Ao	7	..	19157b
33	2474	40.8	-56 23	8.9	10.1	K2	2	..	40105b	83	5463	41.1	-47 1	7.9	7.8	F2	6	..	39931b
34	2273	40.8	-57 11	8.0	8.6	F5	6	..	40105b	84	4126	41.1	-51 20	9.6	9.2	B9	4	..	39868b
35	2274	40.8	-57 42	8.2	9.5	K2	4	..	40105b	85	4125	41.1	-51 49	9.1	8.7	B9	4	..	39868b
36	1626	40.8	-58 44	8.7	9.0	Go	4	..	40105b	86	2479	41.1	-57 0	9.3	10.3	Ko	1	..	40105b
37	857	40.8	-73 7	8.2	8.2	Ao	4	..	22988b	87	2282	41.1	-57 11	9.5	9.5	B9	3	..	40105b
38	170	40.8	-86 43	9.2	9.2	Ao	3	..	13459b	88	1468	41.1	-59 25	7.7	7.8	B9	7	..	40105b
39	636	40.9	+66 15	9.0	10.0	Ko	2	..	38654i	89	2895	41.2	-5 37	8.6	9.1	F8	7	..	19137b
40	1543	40.9	+51 25	8.7	9.5	G5	2	E	38638i	90	2983	41.2	-12 46	8.6	9.2	Go	3	..	21395b
41	1993	40.9	+35 49	8.9	9.3	F5	2	..	38241i	91	3013	41.2	-20 33	9.5	9.9	F5	1	..	13145b
42	2181	40.9	+7 10	5.99	7.34	Ma	7	..	37610i	92	2901	41.2	-21 12	9.7	9.9	Go	1	..	13145b
43	2242	40.9	+3 54	8.5	8.5	Ao	6	..	13393b	93	8428	41.2	-25 0	9.1	9.7	Go	2	..	15600b
44	2970	40.9	-2 38	8.4	8.7	F2	5	..	22970b	94	5587	41.2	-42 35	8.9	8.9	A2	5	..	19157b
45	2957	40.9	-17 28	9.5	9.8	Fo	3	..	41224b	95	5808	41.2	-44 58	9.64	9.9	A2	2	..	39945b
46	7465	40.9	-25 15	8.9	9.3	G5	2	..	13145b	96	5389	41.2	-45 42	8.8	9.9	K5	2	..	39864b
47	7464	40.9	-25 20	8.9	9.7	G5	1	..	13145b	97	4649	41.2	-49 14	9.8	9.2	Fo	2	..	39931b
48	5870	40.9	-38 8	8.5	8.4	Ao	5	..	13116b	98	4652	41.2	-49 33	7.7	8.7	G5	5	..	39931b
49	5582	40.9	-42 48	10.9	9.8	Ao	1	..	39945b	99	2479	41.2	-55 33	9.0	10.1	Ko	2	..	38408b
50	5583	40.9	-42 54	10.9	9.8	Ao	1	0,1	39945b	100	2283	41.2	-57 35	8.9	9.3	F2	3	..	40105b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1628	41.2	-58 57	10.1	10.1	B8	1	..	40105b	51	6132	41.6	-34 11	8.2	9.9	K5	2	..	22915b
2	1469	41.2	-59 34	9.4	10.8	Ma	1	..	40105b	52	4459	41.6	-50 17	9.1	9.2	F8	1	..	39864b
3	976	41.2	-68 53	8.6	9.4	G5	3	..	40074b	53	4130	41.6	-51 54	9.6	9.0	Ao	2	..	39868b
4	1104	41.2	-69 55	9.0	9.4	F5	2	..	40074b	54	2658	41.6	-54 51	9.4	9.5	A2	4	..	38408b
5	442	41.2	-79 18	9.0	10.1	K2	4	..	21453b	55	2484	41.6	-55 22	9.4	9.5	A2	2	..	38408b
6	2267	41.3	+18 36	7.9	8.5	Go	3	..	37608i	56	2485	41.6	-55 33	8.2	7.8	B8	7	..	38408b
7	2246	41.3	+ 2 15	5.69	6.03	F2	10	..	13393b	57	1496	41.6	-60 24	10.4	10.5	A2	1	..	40105b
8	2812	41.3	-19 58	9.2	10.5	Ko	1	..	41224b	58	395	41.7	+75 4	9.07	9.63	G	2	..	37714i
9	2902	41.3	-21 18	8.8	9.6	Ko	2	..	13145b	59	1329	41.7	+54 44	7.26	7.54	Fo	6	..	38638i
10	6041	41.3	-37 17	10.9	8.5	Ko	5	..	13116b	60	1962	41.7	+42 54	8.1	8.5	F5	2	..	38336i
11	5391	41.3	-46 3	9.0	9.3	Ao	4	..	39864b	61	2026	41.7	+16 0	8.7	9.1	F5	2	..	37610i
12	4962	41.3	-49 2	7.8	8.9	F8	4	..	39864b	62	2248	41.7	+ 2 46	8.5	9.5	Ko	5	..	13393b
13	4654	41.3	-50 2	8.6	9.5	K5	1	..	39864b	63	2246	41.7	- 0 50	9.2	9.8	Go	1	..	22970b
14	1629	41.3	-58 43	9.1	9.0	B9	3	..	40105b	64	2977	41.7	- 2 44	7.40	7.74	F2	8	..	22970b
15	1907	41.4	+33 15	7.87	9.22	Ma	2	..	37741i	65	2976	41.7	- 3 4	8.7	8.8	A5	3	..	22970b
16	2247	41.4	+ 2 11	7.9	8.4	F8	6	..	13393b	66	2996	41.7	- 6 28	9.5	9.6	A2	1	..	19137b
17	2898	41.4	- 5 34	9.7	11.1	Ma	1	..	19137b	67	2920	41.7	- 9 47	8.26	8.54	Fo	5	..	18996b
18	2993	41.4	- 6 51	10.1	10.1	Ao	1	..	19137b	68	2903	41.7	-21 58	9.0	9.7	Go	1	..	13145b
19	2760	41.4	- 8 49	9.1	9.9	G5	1	..	19137b	69	2904	41.7	-22 11	7.41	8.4	Ko	5	..	13323b
20	2813	41.4	-19 16	6.97	7.7	Ao	8	0,9	13145b	70	6916	41.7	-27 23	8.7	10.4	Ko	1	..	13281b
21	3014	41.4	-20 54	9.7	9.9	G5	1	..	13145b	71	6918	41.7	-28 7	9.1	9.7	F8	2	..	13281b
22	8431	41.4	-24 55	9.1	10.5	K5	1	..	15600b	72	5926	41.7	-36 45	9.0	9.6	A2	1	..	13116b
23	7401	41.4	-26 20	8.7	9.3	K5	2	..	13281b	73	5325	41.7	-41 12	7.6	7.4	B9	8	..	19157b
24	6043	41.4	-37 21	7.5	8.4	F8	8	..	13116b	74	4657	41.7	-49 21	7.9	8.1	F8	6	..	39931b
25	5593	41.4	-43 4	10.0	9.8	A5	1	..	19157b	75	2487	41.7	-56 0	8.6	9.8	K5	2	..	38408b
26	5592	41.4	-43 8	9.8	9.3	Ao	4	..	19157b	76	2491	41.7	-57 7	7.4	7.8	G5	7	..	40105b
27	4963	41.4	-49 2	7.8	8.7	F8	5	..	39864b	77	979	41.7	-68 33	9.1	9.1	Ao	3	..	40074b
28	2824	41.4	-53 59	8.8	9.8	K2	3	..	38408b	78	607	41.7	-75 13	9.1	10.1	Kop	2	R	21453b
29	2483	41.4	-55 13	9.36	9.5	B9	3	..	38408b	79	1911	41.8	+30 2	8.1	9.1	Ko	2	..	37741i
30	1051	41.4	-66 19	9.8	9.8	A	1	..	40074b	80	2133	41.8	+24 6	6.72	7.72	Ko	7	..	37608i
31	866	41.4	-71 44	6.87	7.0	B9	8	..	22988b	81	2182	41.8	+ 7 33	7.9	9.0	K2	3	..	37610i
32	444	41.4	-79 56	9.6	10.6	Ko	2	..	21453b	82	2302	41.8	- 1 26	8.3	9.1	G5	3	..	22970b
33	1209	41.5	+60 34	7.24	8.24	Ko	6	..	38224i	83	2770	41.8	- 3 32	9.7	10.3	Go	1	..	22970b
34	1880	41.5	+49 31	8.1	9.2	K2	3	..	38336i	84	2717	41.8	- 4 45	8.4	9.4	Ko	4	..	22970b
35	2557	41.5	- 0 9	8.83	9.25	F5	5	..	13393b	85	2997	41.8	- 6 40	8.6	9.6	Ko	3	..	19137b
36	2946	41.5	-14 8	8.0	9.1	K2	5	..	18996b	86	2905	41.8	-21 52	8.6	9.3	G5	3	..	13145b
37	2898	41.5	-15 59	8.6	8.7	A2	5	..	41224b	87	5917	41.8	-35 24	6.80	7.9	F5	8	..	13116b
38	2814	41.5	-19 59	9.5	9.7	A5	3	0,1	41224b	88	2836	41.8	-53 47	7.2	7.2	A2	3	2,9	42951b
39	7471	41.5	-25 48	8.1	9.1	Ko	5	..	13281b	89	2294	41.8	-57 12	10.1	10.4	Fo	1	..	40105b
40	6915	41.5	-27 22	9.9	9.7	A5	2	..	13281b	90	2293	41.8	-57 31	9.5	9.5	B8	2	..	40105b
41	5593	41.5	-43 16	9.6	9.6	A2	3	..	19157b	91	1473	41.8	-59 32	8.7	8.7	B9	3	..	40105b
42	5193	41.5	-47 54	10.0	9.0	B9	2	..	39864b	92	1472	41.8	-59 41	10.2	10.2	Ao	1	..	40105b
43	5194	41.5	-48 3	8.2	8.5	F2	4	..	39864b	93	1159	41.8	-63 48	9.2	9.6	F5	2	..	40221b
44	4456	41.5	-50 13	9.33	9.2	Ao	2	..	39864b	94	1052	41.8	-66 34	8.6	8.9	Fo	3	..	40221b
45	2656	41.5	-54 38	9.1	9.3	F2	5	..	38408b	95	1106	41.8	-69 15	9.1	9.1	Ao	3	..	40074b
46	1331	41.5	-61 59	9.1	9.9	Ao	2	..	40221b	96	1105	41.8	-69 49	8.8	10.0	K5	1	..	40074b
47	367	41.6	+76 36	9.1	9.7	G	2	..	37714i	97	373	41.8	-80 56	10.4	10.4	Ao	2	E	21453b
48	2259	41.6	+40 44	9.1	9.5	F5	1	..	38241i	98	365	41.8	-81 15	6.76	7.9	Ko	..	0,7-	56,127
49	2019	41.6	+37 46	8.7	9.5	G5	2	..	38241i	99	617	41.9	+67 2	8.1	8.4	F2	5	..	37517i
50	6718	41.6	-32 13	9.8	10.1	Fo	2	..	22915b	100	2067	41.9	+38 4	8.8	9.4	Go	2	..	38241i

D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2239	41.9	+ 9 2	6.74	7.02	Fo	7	..	3761oi	51	2922	42.2	-10 4	7.06	7.40	F2	9	..	18996b
2	2245	41.9	+ 3 53	8.3	9.3	Ko	4	..	13393b	52	7887	42.2	-30 49	7.71	8.6	Ko	4	..	22915b
3	2558	41.9	- 0 9	7.98	8.48	F8	8	..	13393b	53	7888	42.2	-30 54	9.7	9.6	Go	2	..	22915b
4	2979	41.9	- 2 54	8.2	9.3	K2	5	..	22970b	54	6349	42.2	-33 58	9.1	9.6	Ao	4	..	22915b
5	2771	41.9	- 3 50	8.0	9.0	Ko	3	..	22970b	55	5923	42.2	-35 19	10.0	9.6	Ao	2	..	22915b
6	2718	41.9	-11 28	7.8	8.8	Ko	6	..	18996b	56	5486	42.2	-46 43	9.0	8.8	Ao	5	..	39864b
7	7477	41.9	-25 13	9.05	9.0	Go	5	..	13145b	57	4140	42.2	-51 49	7.6	7.8	F2	6	..	39868b
8	7476	41.9	-25 31	9.1	9.1	F5	4	..	13145b	58	2843	42.2	-53 30	9.4	9.5	A3	4	..	38408b
9	7411	41.9	-26 49	6.94	7.8	F2	3	2,7	7734b	59	1635	42.2	-59 1	7.9	8.2	G5	6	..	40105b
10	7769	41.9	-30 7	9.1	9.6	Ko	1	..	22915b	60	936	42.2	-71 0	8.7	9.8	K2	1	..	40074b
11	5826	41.9	-44 11	9.2	9.3	Fo	3	..	19157b	61	594	42.2	-77 1	10.2	10.2	A	3	..	21453b
12	5401	41.9	-45 28	8.0	8.4	Fo	6	..	39864b	62	1210	42.3	+60 28	8.7	9.2	F8	2	..	38224i
13	5483	41.9	-46 53	9.1	9.0	F5	3	..	39864b	63	1907	42.3	+44 0	7.90	8.68	G5	3	..	38336i
14	4659	41.9	-49 10	9.8	9.3	A2	1	..	39864b	64	2104	42.3	+10 51	7.57	7.71	A5	6	..	3761oi
15	2771	41.9	-52 47	8.7	9.5	G5	2	..	38408b	65	2247	42.3	- 0 32	8.3	8.7	F5	5	..	22970b
16	2772	41.9	-52 59	8.1	8.7	G5	5	..	38408b	66	2303	42.3	- 2 11	8.82	9.82	Ko	2	..	22970b
17	2667	41.9	-55 6	10.1	10.1	Ao	2	..	38408b	67	2763	42.3	- 8 43	9.0	10.0	Ko	2	..	19137b
18	1474	41.9	-59 19	9.6	9.7	A2	2	..	40105b	68	2918	42.3	-10 16	7.11	7.53	F5	10	..	18996b
19	630	41.9	-74 51	9.8	10.2	F5	2	..	21453b	69	2949	42.3	-13 34	8.8	10.0	K5	1	..	18996b
20	546	41.9	-77 58	10.2	10.2	Ao	3	..	21453b	70	2885	42.3	-16 21	8.7	9.7	Ko	2	..	41224b
21	445	41.9	-79 13	9.1	10.2	K2	3	..	21453b	71	2821	42.3	-19 54	8.6	9.6	F5	4	5,3	41224b
22	2095	42.0	+12 3	6.37	6.65	Fo	8	..	3761oi	72	7607	42.3	-29 1	8.5	8.7	A2	6	..	13281b
23	2772	42.0	- 3 28	9.2	9.2	Ao	2	..	22970b	73	6730	42.3	-33 2	10.4	10.1	Ao	2	..	22915b
24	2889	42.0	- 8 3	9.5	10.5	Ko	1	..	19137b	74	5411	42.3	-45 27	6.86	7.7	G5	7	..	39864b
25	2900	42.0	-16 5	7.8	8.3	F8	7	..	41224b	75	5214	42.3	-47 9	8.8	9.0	Fo	4	..	39864b
26	6724	42.0	-32 25	9.6	9.8	Ao	2	..	22915b	76	2850	42.3	-53 56	10.2	10.3	A3	1	..	38408b
27	6725	42.0	-33 3	6.96	7.3	Ao	7	..	13047b	77	2500	42.3	-55 17	9.1	9.0	B8	4	..	38408b
28	5329	42.0	-41 19	10.2	9.5	G5	1	..	19157b	78	1163	42.3	-63 53	9.4	9.5	A5	3	..	40221b
29	5600	42.0	-43 13	7.8	8.5	Ko	7	..	19157b	79	1234	42.4	+57 42	7.9	8.9	Ko	3	..	38638i
30	2840	42.0	-53 50	9.0	8.4	B9	5	..	38408b	80	2147	42.4	+13 58	8.1	9.1	Ko	4	..	3761oi
31	2669	42.0	-54 18	8.7	9.5	K2	4	..	38408b	81	2054	42.4	+10 32	7.6	8.4	G5	4	..	3761oi
32	1301	42.0	-62 37	9.4	9.4	Ao	2	..	40221b	82	2183	42.4	+ 7 17	8.9	9.2	F2	4	..	9463b
33	1053	42.0	-66 11	9.8	9.8	Ao	1	..	40074b	83	2559	42.4	+ 0 43	9.39	9.89	F8	2	..	13393b
34	980	42.0	-68 8	8.1	9.1	Ko	4	..	40074b	84	2099	42.4	- 7 0	9.5	10.6	K2	1	..	19137b
35	446	42.0	-79 56	8.7	8.7	B9	7	..	21453b	85	8726	42.4	-23 40	9.1	9.9	Ko	2	..	13145b
36	1330	42.1	+54 26	8.5	9.6	K2	1	..	38638i	86	8449	42.4	-24 13	9.1	9.1	F2	4	3,2	15600b
37	1551	42.1	+46 29	5.20	5.76	Go	10	..	38336i	87	7609	42.4	-28 31	8.3	9.0	A2	4	..	22915b
38	2011	42.1	+41 1	8.6	9.0	F5	3	..	38241i	88	5496	42.4	-40 40	9.4	9.6	Ko	2	..	39945b
39	2108	42.1	+21 5	7.8	8.1	Fo	7	..	37608i	89	4481	42.4	-50 25	8.2	8.9	Ko	3	2,3	39864b
40	2102	42.1	+11 18	7.81	8.81	Ko	2	..	3761oi	90	4146	42.4	-51 16	9.6	9.3	Fo	2	..	39868b
41	2773	42.1	- 4 1	8.6	9.8	K5	2	..	22970b	91	2498	42.4	-56 17	8.6	8.7	B8	3	..	40105b
42	5491	42.1	-40 11	7.98	8.6	F8	5	..	19157b	92	1636	42.4	-58 17	9.3	9.3	Ao	2	..	40105b
43	5832	42.1	-44 15	8.2	8.7	Ao	7	..	19157b	93	1497	42.4	-60 35	8.7	10.8	K5	1	..	40221b
44	5485	42.1	-46 47	9.6	9.6	Ao	2	..	39864b	94	1076	42.4	-64 12	8.3	9.5	K5	4	..	40221b
45	4666	42.1	-49 30	11.5	9.3	Ao	2	..	39864b	95	1078	42.4	-64 21	8.4	9.5	K2	4	..	40221b
46	302	42.2	+80 8	8.9	9.9	Ko	2	..	37493i	96	1118	42.4	-67 14	9.7	9.8	A2	2	..	40074b
47	582	42.2	+70 40	8.1	8.4	Fo	4	..	37706i	97	1108	42.4	-69 20	8.2	8.2	Ao	4	..	22988b
48	2096	42.2	+11 54	var.	var.	Md	..	O,I R	M	98	1109	42.4	-69 50	8.9	9.7	G5	1	..	40074b
49	2249	42.2	+ 2 47	8.1	8.7	Go	8	..	13393b	99	610	42.4	-75 28	8.7	8.8	A2	6	..	21453b
50	2902	42.2	- 5 21	8.55	8.83	Fo	6	..	19137b	100	1908	42.5	+44 8	7.76	7.82	A2	5	..	38336i

84800

9^h 42^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1948	42.5	+29 0	7.7	7.7	Ao	7	..	3774ii	51	1171	42.9	-64 2	8.0	8.0	B8	7	..	40221b
2	2887	42.5	-16 44	7.03	8.21	K5	7	..	41224b	52	1144	42.9	-65 44	9.7	9.8	A2	2	..	40074b
3	2907	42.5	-21 14	7.6	8.4	F8	6	3,5	13145b	53	860	42.9	-72 51	8.1	9.3	K5	1	..	40074b
4	8451	42.5	-24 47	9.2	9.9	K2	2	0,1	15600b	54	2262	43.0	+19 47	9.10	9.88	G5	2	..	37608i
5	5497	42.5	-40 13	7.74	8.0	A3	7	..	19157b	55	2234	43.0	+ 5 26	8.6	9.7	K2	3	..	13393b
6	5606	42.5	-43 1	10.5	9.8	Ao	3	..	19157b	56	2722	43.0	-12 7	8.4	9.5	K2	2	..	18996b
7	2782	42.5	-52 28	9.1	9.5	A3	3	..	38408b	57	8463	43.0	-24 51	8.5	9.3	G5	3	..	13145b
8	2502	42.5	-56 33	8.3	8.9	G5	4	..	40105b	58	7786	43.0	-29 42	9.5	10.4	Ko	1	..	22915b
9	2499	42.5	-56 44	6.58	6.5	B8	..	..	56,127	59	6149	43.0	-34 45	9.4	9.6	Ao	3	..	22915b
10	1333	42.5	-62 3	var.	var.	Go	..	R	28,203	60	4674	43.0	-50 7	7.53	8.1	A2	7	..	39864b
11	1167	42.5	-63 42	9.4	9.5	A2	3	..	40221b	61	2865	43.0	-53 41	8.7	8.9	B2	6	..	38408b
12	637	42.6	+66 4	6.29	6.57	Fo	10	..	37517i	62	1643	43.0	-58 17	8.7	9.1	F2	3	..	40105b
13	1687	42.6	+50 39	8.8	8.8	A	2	E	38638i	63	1641	43.0	-58 32	8.1	9.3	G5	3	..	40105b
14	2764	42.6	- 8 54	9.5	10.6	K2	2	..	19137b	64	1644	43.0	-58 35	8.0	8.4	Ko	7	0,1	40105b
15	5334	42.6	-41 21	10.4	9.5	A2	2	..	19157b	65	1307	43.0	-62 36	10.1	10.1	Ao	1	..	40221b
16	5846	42.6	-44 18	5.68	5.9	B3	..	0,8-	56,127	66	1061	43.0	-66 21	8.0	8.0	B9	8	..	40221b
17	5496	42.6	-46 55	10.2	10.1	G5	1	..	39864b	67	639	43.0	-74 5	8.3	9.3	Ko	5	..	21453b
18	4983	42.6	-48 40	8.3	9.2	K2	2	..	39864b	68	1361	43.1	+53 22	7.26	8.26	Ko	6	..	38638i
19	2302	42.6	-57 52	8.2	8.3	A2	7	..	40105b	69	2021	43.1	+36 59	8.1	8.6	F8	5	..	3824ii
20	396	42.7	+74 54	8.32	9.32	Ko	3	..	37714i	70	2035	43.1	+34 35	7.10	7.18	A3	6	..	3824ii
21	2247	42.7	+ 4 41	8.90	10.08	K5	1	..	13393b	71	1917	43.1	+29 57	8.91	9.91	Ko	1	..	37529i
22	2889	42.7	-16 24	9.0	9.8	G5	2	..	41224b	72	2155	43.1	+25 2	8.1	8.1	Ao	5	..	38642i
23	7894	42.7	-30 31	8.5	9.2	Ko	3	..	22915b	73	2058	43.1	+ 9 50	8.72	9.14	F5	2	..	37610i
24	7895	42.7	-30 48	6.79	7.3	Ao	9	..	22915b	74	2895	43.1	- 7 42	8.1	9.5	Ma	5	..	19137b
25	7632	42.7	-32 0	9.4	10.8	F8	3	..	22915b	75	7425	43.1	-26 38	8.9	9.9	Ko	2	..	15600b
26	5906	42.7	-38 52	7.42	8.1	Fo	8	..	13116b	76	7641	43.1	-31 47	8.5	9.6	Go	2	..	22915b
27	1638	42.7	-59 1	8.4	8.4	B8	5	..	40105b	77	2793	43.1	-52 30	8.8	9.2	B	4	..	38408b
28	514	42.8	+70 53	8.9	9.9	Ko	2	..	37706i	78	2512	43.1	-56 19	10.3	10.4	A2	1	..	40105b
29	1707	42.8	+47 6	8.7	8.8	A2	2	..	38336i	79	2149	43.2	+23 3	8.1	9.1	Ko	4	..	37608i
30	1909	42.8	+44 39	8.72	9.28	Go	2	..	38336i	80	2780	43.2	- 3 59	9.2	10.2	Ko	1	..	22970b
31	1995	42.8	+36 12	9.1	9.6	F8	2	..	3824ii	81	2908	43.2	- 5 26	7.90	8.97	K2	7	..	19137b
32	2248	42.8	+ 4 33	8.90	9.97	K2	1	..	13393b	82	3003	43.2	- 6 47	7.11	7.09	B9	10	..	19137b
33	2721	42.8	-11 36	8.6	8.7	A2	5	..	18996b	83	2926	43.2	-10 24	9.0	9.8	G5	2	..	18996b
34	7782	42.8	-29 21	10.4	10.1	Ao	3	..	22915b	84	2724	43.2	-12 5	8.8	9.4	Go	2	..	18996b
35	7781	42.8	-29 49	9.2	9.6	Ko	2	..	22915b	85	2953	43.2	-13 50	9.2	10.3	K2	1	..	18996b
36	4488	42.8	-50 54	9.4	9.2	Ao	1	..	39864b	86	2951	43.2	-14 28	8.6	8.6	Ao	7	..	18996b
37	2507	42.8	-55 20	8.2	9.5	K2	3	..	38408b	87	6935	43.2	-27 55	7.34	8.1	F8	8	..	13281b
38	2507	42.8	-56 30	9.1	9.8	G5	2	..	40105b	88	7788	43.2	-29 14	7.9	8.6	Ko	5	..	13281b
39	2509	42.8	-56 43	8.9	10.1	Ko	2	..	40105b	89	5231	43.2	-47 15	8.4	9.3	F8	3	..	39864b
40	2012	42.9	+41 32	8.3	9.3	K	1	..	3824ii	90	1145	43.2	-65 39	9.0	9.0	Ao	4	..	40221b
41	2261	42.9	+19 16	8.4	9.0	Go	3	..	37608i	91	938	43.2	-70 17	8.5	8.8	F2	4	..	22988b
42	2248	42.9	- 0 45	9.2	9.6	F5	2	..	22970b	92	462	43.2	-78 33	9.5	10.5	Ko	1	..	21453b
43	2894	42.9	- 8 1	8.8	9.3	F8	5	..	19137b	93	1709	43.3	+46 53	8.3	9.3	Ko	2	..	38336i
44	8459	42.9	-24 55	9.4	9.6	Ao	3	..	13145b	94	2250	43.3	+ 4 32	10.6	11.4	G5	1	..	13393b
45	5506	42.9	-40 56	8.7	9.6	Ko	1	..	19157b	95	2249	43.3	- 1 9	9.2	9.5	Fo	3	..	22970b
46	4988	42.9	-49 3	10.0	9.5	Ao	1	..	39864b	96	2926	43.3	- 9 43	8.8	9.8	Ko	1	..	18996b
47	4673	42.9	-49 27	9.1	9.0	Go	3	..	39864b	97	2952	43.3	-14 57	9.5	10.5	Ko	2	..	41224b
48	2788	42.9	-52 30	9.1	9.5	A2	3	..	38408b	98	2902	43.3	-15 34	8.7	9.0	Fo	4	..	41224b
49	2789	42.9	-52 36	9.8	9.8	Ao	1	..	38408b	99	7644	43.3	-31 10	9.7	9.5	G5	2	..	22915b
50	1640	42.9	-58 20	6.28	7.0	F5	7	..	34089b	100	6749	43.3	-32 47	6.78	7.7	G5	8	..	22915b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6367	43.3	-33 25	9.4	9.5	Ao	3	..	22915b	51	2099	43.6	+12 35	8.22	8.56	F2	3	..	3761oi
2	6072	43.3	-37 16	7.6	8.4	F8	8	..	13116b	52	2268	43.6	+ 8 46	7.9	8.3	F5	5	..	3761oi
3	5513	43.3	-40 59	8.0	8.9	G5	2	..	19157b	53	2268	43.6	+ 3 3	9.6	10.6	Ko	2	..	13393b
4	4162	43.3	-51 47	9.2	9.0	B9	3	..	39868b	54	7431	43.6	-26 33	8.9	9.7	F8	2	..	1560ob
5	2796	43.3	-52 59	9.0	10.0	Ko	1	..	38408b	55	6940	43.6	-27 31	8.1	8.7	F5	5	..	13281b
6	2870	43.3	-53 22	9.3	10.1	G5	1	..	38408b	56	6941	43.6	-27 48	9.1	9.0	Ao	3	..	13281b
7	2700	43.3	-54 53	8.5	8.9	Ao	5	..	38408b	57	7908	43.6	-30 9	9.7	10.1	G5	1	..	22915b
8	2514	43.3	-56 7	8.4	8.6	A2	6	..	38408b	58	6373	43.6	-33 38	8.7	9.6	G5	3	..	22915b
9	983	43.3	-68 35	9.4	9.4	A	1	..	40074b	59	5626	43.6	-42 48	8.5	9.2	K2	3	..	19157b
10	1112	43.3	-69 18	7.08	7.2	Ao	7	..	22988b	60	5237	43.6	-47 9	8.6	8.4	Ao	4	..	39864b
11	1211	43.4	+60 40	8.9	9.9	Ko	1	..	38224i	61	2311	43.6	-57 17	10.3	10.3	Ao	1	..	40105b
12	1424	43.4	+51 53	8.1	9.3	K5	3	..	38638i	62	863	43.6	-72 39	8.2	9.4	K5	2	..	40074b
13	1549	43.4	+51 36	9.0	9.0	Ao	3	..	38638i	63	643	43.6	-73 26	7.6	8.1	F8	7	..	21453b
14	2022	43.4	+37 14	6.92	8.10	K5	6	..	38241i	64	..	43.6	-76 59	..	..	K	1	..	21453b
15	2160	43.4	+12 59	8.66	9.44	G5	1	..	3761oi	65	2049	43.7	+42 1	9.1	9.1	Ao	3	..	38241i
16	2782	43.4	- 3 56	8.8	10.0	K5	2	..	22970b	66	2158	43.7	+25 40	9.2	10.2	Ko	1	E	38646b
17	2970	43.4	-17 22	9.2	9.3	A5	2	..	41224b	67	2265	43.7	+19 8	8.3	8.9	Go	3	..	37608i
18	2968	43.4	-17 54	8.4	8.7	Fo	5	..	41224b	68	2114	43.7	+15 5	8.1	8.1	Ao	5	..	3761oi
19	2787	43.4	-18 27	8.6	9.0	F5	5	..	41224b	69	2363	43.7	+ 1 15	9.2	9.8	Go	2	..	13393b
20	2828	43.4	-19 38	10.9	9.9	A	1	..	41224b	70	2362	43.7	+ 1 8	9.4	9.9	F8	2	..	13393b
21	8469	43.4	-24 58	9.9	9.7	Ao	2	..	13145b	71	2986	43.7	- 2 14	8.5	8.4	B5	7	..	22970b
22	6936	43.4	-27 8	7.6	8.2	Ao	7	E	13145b	72	2928	43.7	-11 4	9.0	10.0	Ko	1	..	18996b
23	7633	43.4	-28 29	9.1	9.3	Go	2	..	13281b	73	8473	43.7	-24 15	9.1	9.9	Ko	1	..	13145b
24	7645	43.4	-31 24	10.2	10.4	F2	2	..	22915b	74	8471	43.7	-24 44	7.9	8.1	A2	7	..	13145b
25	6750	43.4	-32 33	9.0	8.7	Ao	3	..	22915b	75	6944	43.7	-27 25	8.9	9.3	G5	2	..	13281b
26	6073	43.4	-37 44	6.94	7.8	K2	7	..	13116b	76	6163	43.7	-34 39	9.3	9.6	G5	2	..	22915b
27	4167	43.4	-51 27	9.2	9.2	Fo	3	..	39868b	77	5517	43.7	-40 23	8.0	8.3	A5	4	..	19157b
28	2797	43.4	-52 9	9.1	9.6	Ao	3	..	38408b	78	2802	43.7	-52 14	9.1	9.5	F5	2	..	38408b
29	1646	43.4	-58 53	7.6	6.9	Ao	7	..	34089b	79	2878	43.7	-53 45	8.9	9.0	A2	5	..	38408b
30	1476	43.4	-59 26	9.9	9.9	Ao	1	..	40105b	80	2313	43.7	-58 3	9.8	10.3	F8	1	..	40105b
31	1477	43.4	-59 43	10.1	10.1	Ao	2	..	40105b	81	1216	43.8	+58 41	9.3	10.3	Ko	1	..	38224i
32	1310	43.4	-62 37	9.1	9.1	Ao	4	..	40221b	82	2159	43.8	+24 52	8.56	9.56	Ko	1	..	38642i
33	1146	43.4	-65 46	9.5	9.6	A2	2	..	40221b	83	2115	43.8	+15 26	8.1	8.2	A2	5	..	3761oi
34	1069	43.4	-67 7	9.3	9.3	Ao	4	..	40074b	84	2928	43.8	- 9 27	6.98	6.98	Ao	10	..	18996b
35	631	43.4	-74 15	8.6	9.6	Ko	3	..	21453b	85	2906	43.8	-15 38	9.2	9.8	Go	2	..	41224b
36	613	43.4	-75 22	9.4	9.9	F8	2	..	21453b	86	2905	43.8	-15 51	9.2	9.3	A2	2	..	41224b
37	2151	43.5	+14 16	8.1	8.4	Fo	3	..	3761oi	87	2830	43.8	-19 29	8.2	9.4	K2	4	2,2	41224b
38	2107	43.5	+11 2	9.13	9.55	F5	1	..	3761oi	88	2722	43.8	-22 16	9.2	9.4	F5	1	..	13323b
39	2251	43.5	+ 2 28	10.6	11.2	Go	1	..	13393b	89	2724	43.8	-22 22	9.2	9.0	A2	3	..	13145b
40	2250	43.5	- 0 21	8.23	8.73	F8	6	..	22970b	90	7911	43.8	-30 31	8.5	9.8	Ko	1	..	22915b
41	3005	43.5	- 6 51	8.1	8.1	Ao	7	..	19137b	91	6083	43.8	-37 54	7.28	8.1	Go	8	..	13116b
42	2725	43.5	-11 31	9.2	9.6	F5	2	..	18996b	92	5628	43.8	-42 7	8.8	8.6	Ao	6	..	19157b
43	2994	43.5	-13 3	9.0	9.1	A2	4	..	18996b	93	2881	43.8	-53 50	9.7	9.8	A3	3	..	38408b
44	2720	43.5	-23 3	9.0	9.3	F5	1	..	13145b	94	2314	43.8	-57 53	10.4	10.4	Ao	1	..	40105b
45	2703	43.5	-54 58	9.33	9.5	Ao	3	..	38408b	95	1648	43.8	-59 1	9.6	9.6	B9	1	..	40105b
46	2520	43.5	-57 5	10.1	10.1	Ao	2	..	40105b	96	633	43.8	-74 20	9.1	10.1	Ko	1	..	21453b
47	1336	43.5	-61 30	9.0	9.7	K2	3	..	40221b	97	597	43.8	-76 19	8.1	8.1	B9	9	..	21453b
48	1885	43.6	+49 33	8.12	8.40	Fo	4	..	38336i	98	1146	43.9	+61 6	8.5	9.1	Go	3	..	38224i
49	2157	43.6	+24 54	8.56	9.63	K2	1	..	38642i	99	1268	43.9	+59 31	3.89	4.17	Fo	..	R	2553c
50	2274	43.6	+18 32	7.78	8.78	Ko	3	..	37608i	100	1352	43.9	+55 0	9.5	9.5	Ao	1	..	38638i

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1362	m. 43.9	+53 18	9.5	10.0	F8	1	..	38638i	51	222	m. 44.3	+83 57	8.20	8.76	Go	3	..	38331i
2	2266	43.9	+18 59	8.3	8.9	G	2	..	37608i	52	2001	44.3	+36 21	7.29	8.29	Ko	5	..	38241i
3	2251	43.9	- 0 33	9.2	9.7	F8	1	..	2297ob	53	2013	44.3	+25 52	8.9	10.0	K2	1	..	38642i
4	2898	43.9	- 8 2	9.2	9.5	Fo	3	..	19137b	54	2382	44.3	+20 16	9.5	10.3	G5	3	..	37608i
5	2770	43.9	- 8 46	9.7	10.2	F8	2	..	19137b	55	2771	44.3	- 8 22	7.01	8.08	K2	7	..	19137b
6	2891	43.9	-16 26	9.2	10.2	Ko	2	..	41224b	56	2894	44.3	-16 40	9.7	9.7	Ao	3	..	41224b
7	7593	43.9	-25 32	9.4	9.3	Go	2	..	13145b	57	2893	44.3	-17 7	9.2	10.4	K5	1	..	41224b
8	5512	43.9	-46 11	10.2	10.5	Mb	2	..	39931b	58	3021	44.3	-20 53	8.8	9.6	G5	2	0,2	13145b
9	5004	43.9	-48 13	10.5	9.5	B8	1	..	39864b	59	2727	44.3	-23 10	9.2	9.4	F	2	..	13145b
10	2805	43.9	-52 51	10.3	10.3	A	1	..	38408b	60	8758	44.3	-23 50	8.9	9.0	Fo	3	..	13145b
11	1480	43.9	-59 26	9.1	9.1	Ao	3	..	40105b	61	6765	44.3	-32 12	9.0	9.0	A2	3	..	22915b
12	1115	43.9	-69 39	7.2	7.2	B8	8	..	22988b	62	5011	44.3	-48 10	8.3	8.3	A2	5	..	39864b
13	83	44.0	+87 3	7.97	8.75	G5	4	..	37546i	63	1498	44.3	-60 39	8.5	9.7	Ko	4	R	40105b
14	1363	44.0	+53 36	9.3	10.1	G5	1	..	38638i	64	644	44.3	-74 6	8.3	9.1	G5	4	..	21453b
15	1913	44.0	+44 28	8.47	8.89	F5	3	..	38336i	65	1364	44.4	+53 41	9.0	9.1	A2	2	..	38638i
16	2053	44.0	+31 33	6.87	7.01	A5	8	..	37741i	66	..	44.4	+53 7	..	..	R3	..	..	M
17	2111	44.0	+21 17	7.9	8.7	G5	5	..	37608i	67	1426	44.4	+52 30	8.7	9.2	F8	2	..	38638i
18	2267	44.0	+19 7	8.3	9.1	G5	2	..	37608i	68	1814	44.4	+27 17	8.9	9.9	Ko	1	..	37529i
19	2931	44.0	-10 6	8.96	8.96	Ao	3	..	18996b	69	2383	44.4	+20 4	8.8	9.9	K2	2	..	37608i
20	2907	44.0	-15 58	8.6	8.7	A2	6	..	41224b	70	2141	44.4	+17 18	7.9	9.0	K2	3	..	37608i
21	2892	44.0	-16 25	9.2	10.2	Ko	1	..	41224b	71	2060	44.4	+10 16	10.2	10.6	F5	1	..	37610i
22	2725	44.0	-22 12	8.06	8.2	B9	6	1,6	13145b	72	2252	44.4	- 0 23	9.2	10.2	Ko	1	..	2297ob
23	8477	44.0	-25 5	8.90	9.1	Ko	5	..	13145b	73	2729	44.4	- 4 25	8.7	9.5	G5	2	..	2297ob
24	5875	44.0	-45 5	8.88	9.9	Ko	1	..	39945b	74	2772	44.4	- 8 36	9.5	10.3	G5	1	..	19137b
25	2531	44.0	-56 53	8.3	9.8	Ma	2	..	40105b	75	2973	44.4	-17 58	8.6	8.7	A2	5	..	41224b
26	1315	44.0	-62 15	7.8	7.9	A3	7	..	40221b	76	2794	44.4	-19 10	8.2	8.4	F2	5	0,7	13145b
27	1081	44.0	-64 18	8.7	9.5	G5	3	..	40221b	77	3022	44.4	-20 58	8.6	9.0	G5	5	0,4	41224b
28	1148	44.0	-66 1	9.8	9.8	Ao	2	..	40074b	78	6768	44.4	-32 39	10.0	10.7	Ao	2	..	22915b
29	2261	44.1	+40 6	6.76	7.94	K5	6	..	38241i	79	5945	44.4	-35 22	8.7	9.1	F5	2	..	13116b
30	2038	44.1	+34 5	7.9	8.3	F5	5	..	38241i	80	5435	44.4	-46 5	8.6	8.5	A2	5	..	39864b
31	2269	44.1	+ 2 51	10.2	10.7	F8	1	..	13393b	81	5524	44.4	-47 0	8.3	9.0	G5	3	..	39864b
32	2728	44.1	- 4 24	8.2	9.6	Ma	2	..	2297ob	82	2536	44.4	-55 59	8.6	8.4	B8	4	..	38408b
33	2900	44.1	- 8 0	9.2	10.0	G5	1	..	19137b	83	2322	44.4	-57 43	8.2	8.0	B8	7	..	40105b
34	2972	44.1	-17 18	9.7	10.1	F5	1	..	41224b	84	1481	44.4	-59 23	10.1	10.1	Ao	2	..	40105b
35	2792	44.1	-18 50	7.17	8.17	Ko	6	0,8	13145b	85	1483	44.4	-59 40	10.1	10.4	Fo	1	..	40105b
36	7805	44.1	-29 51	7.90	9.2	G5	4	..	22915b	86	1551	44.5	+51 30	9.3	9.4	A3	2	..	38638i
37	4692	44.1	-49 29	6.88	7.7	Ao	8	..	39864b	87	2163	44.5	+25 2	6.95	7.37	F5	7	0,6	38642i
38	2884	44.1	-53 8	9.5	9.5	Ao	2	..	38408b	88	2144	44.5	+17 2	8.5	9.1	Go	3	..	37608i
39	1769	44.2	+45 33	8.1	8.4	F2	6	..	38336i	89	2117	44.5	+15 22	8.5	8.8	Fo	2	..	37608i
40	2113	44.2	+21 39	6.01	6.29	Fo	10	..	37608i	90	2118	44.5	+15 2	8.3	9.4	K2	1	..	37608i
41	2101	44.2	+12 35	8.95	9.73	G5	1	..	37610i	91	2108	44.5	+11 34	7.48	7.98	F8	4	..	37610i
42	2912	44.2	-21 32	7.24	7.4	Ao	7	0,8	13145b	92	2251	44.5	+ 4 34	8.95	10.02	K2	2	..	13393b
43	7510	44.2	-25 57	6.75	7.6	Fo	4	..	7734b	93	2270	44.5	+ 3 35	9.4	9.8	F5	2	..	13393b
44	6085	44.2	-37 10	7.18	8.4	K2	5	..	13116b	94	2252	44.5	+ 2 17	9.6	10.2	Go	2	..	13393b
45	5523	44.2	-40 58	8.1	8.6	A3	5	..	19157b	95	2366	44.5	+ 1 7	9.4	10.0	Go	2	..	13393b
46	2885	44.2	-53 50	9.2	9.8	Go	1	..	38408b	96	2564	44.5	+ 0 10	8.9	9.4	F8	2	..	2297ob
47	1179	44.2	-63 47	8.6	8.6	Ao	6	..	40221b	97	2785	44.5	- 3 26	9.2	9.5	F2	2	..	2297ob
48	1149	44.2	-66 5	8.9	9.2	Fo	3	..	40221b	98	2915	44.5	-21 44	9.0	9.7	K2	1	..	13145b
49	1129	44.2	-67 12	8.9	9.0	A2	6	..	40074b	99	6387	44.5	-33 20	10.7	10.1	Go	2	..	22915b
50	634	44.2	-74 23	8.1	8.1	B9	8	..	21453b	100	6170	44.5	-34 33	7.31	7.7	A3	8	..	13116b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	6089	44.5	m. -37 23	8.7	8.4	A2	5	..	13116b	51	5892	44.8	m. -44 26	9.4	9.6	G5	2	..	19157b
2	5359	44.5	-41 35	10.2	9.8	A2	1	..	19157b	52	2823	44.8	-52 31	9.0	9.5	F5	2	..	38408b
3	5631	44.5	-43 33	7.9	8.1	A2	8	..	19157b	53	2899	44.8	-53 46	9.4	10.4	Ko	1	..	38408b
4	5258	44.5	-47 24	9.4	9.6	F2	3	..	39864b	54	2902	44.8	-53 56	7.2	8.3	Ko	8	..	38408b
5	2539	44.5	-55 19	9.5	9.5	Ao	3	..	38408b	55	2731	44.8	-54 50	9.0	9.5	B9	3	..	38408b
6	2540	44.5	-55 29	8.6	9.2	G5	4	..	38408b	56	2544	44.8	-55 44	8.3	8.9	Ko	5	..	38408b
7	1482	44.5	-59 32	9.7	9.7	B9	2	..	40105b	57	2540	44.8	-56 59	9.5	9.8	Fo	3	..	40105b
8	1556	44.6	+46 1	7.9	8.3	F5	4	..	38336i	58	2334	44.8	-57 43	8.5	8.9	A2	6	..	40105b
9	2051	44.6	+42 45	8.7	9.7	Ko	2	..	38336i	59	1501	44.8	-60 40	9.9	9.9	A	2	..	40221b
10	2915	44.6	- 5 48	10.1	10.7	Go	1	..	19137b	60	397	44.9	+74 53	8.97	9.53	Go	2	..	37714i
11	3010	44.6	- 6 52	9.1	9.2	A5	2	..	19137b	61	584	44.9	+70 21	8.2	9.2	Ko	4	..	37706i
12	2773	44.6	- 8 43	8.7	9.1	F5	5	..	19137b	62	1941	44.9	+31 52	7.28	8.63	Ma	3	..	37741i
13	2728	44.6	-22 55	9.2	9.6	A	1	..	13145b	63	2306	44.9	- 2 8	8.72	9.06	F2	5	..	2297ob
14	8487	44.6	-24 11	7.58	8.7	Ko	5	..	13145b	64	2732	44.9	-11 48	8.6	8.9	Fo	2	..	18996b
15	8486	44.6	-24 46	8.9	9.3	Ko	4	..	13145b	65	2895	44.9	-16 34	9.2	10.2	Ko	2	..	41224b
16	8485	44.6	-24 53	10.4	9.7	Ko	1	..	13145b	66	3025	44.9	-20 49	9.5	10.5	K5	1	..	41224b
17	6771	44.6	-32 21	8.2	8.6	A2	5	..	22915b	67	4196	44.9	-52 3	8.4	8.6	Ko	6	..	38408b
18	6389	44.6	-33 51	9.4	9.8	Go	2	..	22915b	68	2139	45.0	+24 8	9.5	10.5	Ko	1	..	38642i
19	5950	44.6	-36 51	8.7	9.3	Ko	1	..	13116b	69	2255	45.0	- 0 37	9.9	10.2	Fo	2	..	2297ob
20	6090	44.6	-37 52	8.7	9.0	Go	2	..	13116b	70	2919	45.0	-21 18	9.0	9.4	F5	2	3,2	13145b
21	5362	44.6	-41 50	9.4	9.8	K2	1	..	39945b	71	7819	45.0	-29 45	9.1	8.9	Ao	3	..	22915b
22	2725	44.6	-54 7	9.1	9.5	F5	6	..	38408b	72	7818	45.0	-29 58	9.20	8.9	Fo	3	..	22915b
23	1084	44.6	-64 36	3.15	3.43	Fo	..	R	28,203	73	6172	45.0	-34 27	8.7	9.1	A5	2	..	13116b
24	872	44.6	-64 36	6.03	6.31	Fo	..	R	28,203	74	6095	45.0	-37 47	9.4	9.1	Ao	1	..	13116b
25	636	44.6	-71 19	7.8	8.9	K2	3	..	22988b	75	1650	45.0	-58 24	10.4	10.4	A	1	..	40105b
26	615	44.6	-75 4	10.0	10.1	A3	3	..	21453b	76	2264	45.1	+40 40	8.6	9.0	F5	1	..	38241i
27	448	44.6	-75 26	8.5	9.0	F8	5	..	21453b	77	2023	45.1	+36 58	7.81	8.15	F2	5	..	38241i
28	2731	44.7	-79 8	7.7	8.7	Ko	8	..	21453b	78	2239	45.1	+ 5 42	8.5	9.6	K2	3	..	13393b
29	2975	44.7	-11 19	7.00	8.07	K2	6	..	18996b	79	2566	45.1	+ 0 35	7.44	7.86	F5	8	..	13393b
30	6772	44.7	-17 51	8.8	8.9	A5	4	..	41224b	80	2565	45.1	+ 0 14	7.38	8.38	Ko	7	..	13393b
31	6391	44.7	-33 2	8.7	10.4	K2	2	..	22915b	81	2307	45.1	- 1 40	8.9	9.7	G5	2	..	2297ob
32	5888	44.7	-33 53	9.1	9.6	Ao	3	..	22915b	82	3002	45.1	-12 20	8.0	8.4	F5	4	..	18996b
33	5260	44.7	-45 6	9.38	9.6	A2	2	..	39945b	83	6777	45.1	-32 56	8.0	8.9	K2	5	..	22915b
34	4527	44.7	-47 53	10.0	9.9	B8	1	..	39864b	84	5533	45.1	-40 11	9.44	9.3	F5	1	..	19157b
35	2542	44.7	-50 30	8.4	9.2	Ko	1	..	39864b	85	5267	45.1	-47 27	7.8	8.1	Ao	7	..	39864b
36	2330	44.7	-55 30	8.9	9.5	G5	2	..	38408b	86	4532	45.1	-50 32	8.9	8.9	Fo	4	..	39864b
37	1500	44.7	-57 12	8.9	9.5	Go	4	..	40105b	87	4199	45.1	-51 57	9.6	9.2	A2	5	..	38408b
38	1184	44.7	-60 34	9.1	8.7	Ao	4	..	40221b	88	2827	45.1	-52 33	9.1	8.9	Fo	5	..	38408b
39	873	44.7	-63 8	8.2	9.2	Ko	4	..	40221b	89	2735	45.1	-55 6	9.23	9.2	Ao	5	..	38408b
40	616	44.7	-71 45	var.	var.	Mb	3	R	33946b	90	1651	45.1	-58 12	9.9	9.9	Ao	2	..	40105b
41	621	44.7	-75 37	9.6	9.6	Ao	4	..	21453b	91	1503	45.1	-60 7	9.51	9.7	Ao	4	0,2	40105b
42	2061	44.8	+67 44	8.1	9.1	Ko	3	..	38654i	92	1502	45.1	-60 33	8.2	8.2	A2	5	..	40221b
43	2253	44.8	+10 8	8.5	9.3	G5	2	..	37610i	93	1138	45.1	-67 9	9.2	9.8	Go	1	..	40074b
44	2774	44.8	+ 2 16	8.5	8.9	F5	6	..	13393b	94	986	45.1	-69 2	8.4	9.8	Mb	..	..	M
45	2910	44.8	- 8 53	9.5	9.8	Fo	3	..	19137b	95	645	45.1	-73 39	7.2	7.3	A2	10	..	21453b
46	3024	44.8	-16 10	8.0	9.1	K2	4	..	41224b	96	1150	45.2	+61 13	9.0	9.5	F8	2	..	38224i
47	2916	44.8	-21 0	9.2	10.2	K5	1	..	41224b	97	2054	45.2	+41 59	8.3	9.3	K	1	..	38241i
48	2730	44.8	-21 27	9.1	9.3	F8	2	3,1	41224b	98	2276	45.2	+18 12	7.9	8.5	Go	3	..	37608i
49	6966	44.8	-22 55	9.2	9.9	K	1	..	13145b	99	2274	45.2	+ 7 56	9.2	9.6	F5	4	..	9463b
50	6966	44.8	-28 5	8.3	9.0	F8	4	..	13281b	100	3011	45.2	- 6 21	9.5	9.9	F5	1	..	19137b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2778	45.2	m. 8 59	9.9	10.4	F8	1	..	19137b	51	2549	45.4	-56 37	8.2	8.9	G5	5	..	40105b
2	7522	45.2	-25 33	8.5	9.6	K2	3	..	13145b	52	2346	45.4	-57 38	10.0	10.1	A2	2	..	40105b
3	6779	45.2	-32 41	9.8	10.4	Go	2	..	22915b	53	1658	45.4	-58 13	8.8	9.4	Ko	2	..	40105b
4	6403	45.2	-33 30	9.4	10.7	Ko	2	..	22915b	54	1487	45.4	-59 44	8.6	9.0	F5	4	..	40221b
5	5955	45.2	-35 30	8.4	9.1	Ko	2	..	13116b	55	1188	45.4	-63 13	8.9	9.5	Go	2	..	40221b
6	5955	45.2	-36 43	6.05	7.5	Ko	9	..	13116b	56	1141	45.4	-67 35	8.7	9.5	G5	2	..	40074b
7	6099	45.2	-37 52	8.0	9.0	F2	3	..	13116b	57	876	45.4	-71 33	8.5	9.7	K5	2	..	40074b
8	5372	45.2	-41 57	10.2	9.3	Ao	2	..	19157b	58	2157	45.5	+14 36	8.1	8.9	G5	2	..	37610i
9	5648	45.2	-43 1	6.67	8.0	Ko	8	..	19157b	59	2105	45.5	+12 19	6.66	6.66	Ao	9	..	37610i
10	2340	45.2	-57 12	8.5	9.8	Ma	3	..	40105b	60	2736	45.5	-11 48	8.4	8.8	F5	4	..	18996b
11	1154	45.2	-65 43	9.8	9.8	Ao	1	..	40074b	61	2957	45.5	-14 53	9.0	9.3	Fo	4	..	41224b
12	1139	45.2	-67 49	8.2	8.5	Fo	5	..	40074b	62	8776	45.5	-24 7	9.7	9.9	F5	2	..	13145b
13	473	45.3	+72 9	7.58	7.58	Ao	6	..	37714i	63	7526	45.5	-25 42	9.7	9.7	F5	2	..	15600b
14	1427	45.3	+52 4	8.7	9.0	F2	3	..	38638i	64	7682	45.5	-31 13	9.9	10.7	A2	1	..	22915b
15	2115	45.3	+21 17	9.5	10.5	K	2	..	37608i	65	6406	45.5	-34 4	10.0	10.8	G5	1	..	22915b
16	2270	45.3	+19 48	8.05	8.13	A3	5	..	37608i	66	1116	45.5	-69 30	9.7	9.7	A	1	..	40074b
17	2240	45.3	+4 49	6.24	6.66	F5	10	..	13393b	67	383	45.5	-80 25	9.1	9.4	Fo	4	..	21453b
18	2255	45.3	+2 18	8.1	9.1	Ko	6	..	13393b	68	2164	45.6	+13 33	6.70	7.88	K5	6	..	37610i
19	2256	45.3	-0 57	7.9	8.9	Ko	7	..	22970b	69	2112	45.6	+11 22	8.14	8.14	Ao	4	..	37610i
20	2309	45.3	-1 33	8.9	9.2	F2	3	..	22970b	70	2275	45.6	+8 36	7.9	8.7	G5	3	..	37610i
21	2939	45.3	-9 35	8.6	9.8	K5	1	..	18996b	71	2242	45.6	+5 28	8.5	9.5	Ko	4	..	13393b
22	2938	45.3	-9 44	8.8	9.9	K2	3	..	19137b	72	2257	45.6	-0 19	9.9	11.0	K2	1	..	22970b
23	2839	45.3	-19 48	9.2	9.6	K2	2	2,I	41224b	73	2258	45.6	-0 42	8.9	9.9	Ko	3	..	22970b
24	8773	45.3	-23 54	8.3	9.3	K2	2	..	13145b	74	2310	45.6	-2 2	8.7	9.9	K5	3	..	22970b
25	7662	45.3	-28 34	8.7	9.0	Ao	6	..	22915b	75	2897	45.6	-16 32	9.2	9.6	F5	1	..	41224b
26	7933	45.3	-30 16	9.20	10.4	Ko	2	..	22915b	76	8777	45.6	-24 1	9.1	8.4	A2	4	..	13145b
27	5532	45.3	-46 16	9.4	9.6	Ao	3	..	39864b	77	7665	45.6	-28 25	7.6	8.7	Ko	7	..	22915b
28	2830	45.3	-52 10	7.6	8.6	Ko	7	..	38408b	78	7827	45.6	-29 26	8.0	8.0	F2	6	..	22915b
29	2738	45.3	-54 29	10.1	10.1	Ao	2	..	38408b	79	5377	45.6	-41 40	9.0	8.6	Ao	4	..	19157b
30	2737	45.3	-55 2	7.78	9.5	Ma	4	..	38408b	80	5376	45.6	-41 51	9.3	9.2	K2	2	0,I	39945b
31	1504	45.3	-60 16	10.2	10.2	Ao	1	..	40105b	81	5655	45.6	-42 20	9.1	8.9	Ao	6	..	19157b
32	1342	45.3	-61 46	9.8	9.9	A2	2	..	40221b	82	5536	45.6	-46 35	9.2	9.6	A3	4	..	39864b
33	1088	45.3	-64 39	9.3	9.3	Ao	4	..	40221b	83	4715	45.6	-49 59	9.78	9.3	A2	1	..	39864b
34	1081	45.3	-67 1	9.6	9.6	A	1	..	40074b	84	2742	45.6	-54 34	9.8	9.8	Ao	2	..	38408b
35	1331	45.4	+54 32	4.54	4.60	A2	..	0,R	56,87	85	2554	45.6	-55 44	9.1	9.8	K2	2	..	38408b
36	1366	45.4	+53 37	8.9	9.3	F5	3	..	38638i	86	1085	45.6	-66 24	8.1	9.3	K5	3	..	40221b
37	1690	45.4	+50 13	8.17	9.35	K5	2	..	38638i	87	987	45.6	-69 7	8.6	10.0	Ma	1	..	40074b
38	1689	45.4	+50 5	7.77	8.33	Go	5	0,4	38336i	88	868	45.6	-73 7	9.1	10.1	Ko	1	..	39946b
39	1922	45.4	+30 38	9.1	9.9	G5	1	..	37529i	89	639	45.6	-74 35	9.4	9.4	B8	5	..	21453b
40	1954	45.4	+29 24	9.5	10.0	F8	1	..	37529i	90	1915	45.7	+44 17	9.0	9.8	G5	1	..	38336i
41	2142	45.4	+24 20	8.8	9.6	G5	2	..	38642i	91	2266	45.7	+40 5	7.62	7.70	A3	6	..	38241i
42	2255	45.4	+3 50	8.7	9.8	K2	3	..	13393b	92	1814	45.7	+28 4	8.7	9.7	Ko	2	..	37529i
43	3012	45.4	-6 13	9.1	9.9	G5	1	..	19137b	93	2165	45.7	+25 26	9.1	10.1	Ko	1	..	38642i
44	3026	45.4	-20 40	8.6	9.0	A2	6	0,3	41224b	94	3013	45.7	-6 55	7.04	7.38	F2	10	..	19137b
45	7524	45.4	-25 24	9.2	9.9	K2	1	..	13145b	95	8504	45.7	-24 17	9.4	9.0	B8	3	..	13145b
46	6404	45.4	-33 47	10.4	10.7	Ao	2	..	22915b	96	5961	45.7	-35 48	6.30	7.8	Ko	9	..	13116b
47	6184	45.4	-34 34	9.4	9.7	G5	2	..	22915b	97	4549	45.7	-50 12	8.48	8.9	G5	3	..	39864b
48	5652	45.4	-42 20	9.4	9.3	A5	2	..	19157b	98	2839	45.7	-53 4	8.9	10.0	K2	1	..	38408b
49	2912	45.4	-53 7	8.1	8.6	Go	6	..	38408b	99	647	45.7	-73 37	9.8	9.9	A2	2	..	21453b
50	2548	45.4	-55 57	6.14	7.4	Ko	..	0,10	56,127	100	210	45.7	-85 33	6.94	6.9	F2	5	3,10	11010b

THE HENRY DRAPER CATALOGUE.

85300

9^h 45^m. 8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1889	45.8	+49 40	7.67	8.45	G5	4	..	38336i	51	2842	46.1	-19 38	8.6	9.3	Ko	4	0,2	41224b
2	2039	45.8	+16 48	8.5	9.5	Ko	3	..	37608i	52	3032	46.1	-20 19	7.83	8.2	Ao	5	0,7	13145b
3	2276	45.8	+ 8 33	9.2	9.3	A3	3	..	9463b	53	6793	46.1	-32 52	10.0	10.8	G5	2	..	22915b
4	2370	45.8	+ 1 17	8.5	8.6	A2	6	..	13393b	54	6198	46.1	-35 0	10.0	9.9	Ao	1	..	22915b
5	8506	45.8	-24 9	9.5	9.6	Go	2	..	13145b	55	5470	46.1	-45 16	5.26	5.21	B8	..	0, R	28,203
6	7464	45.8	-26 45	8.3	9.6	Ko	1	..	13145b	56	5287	46.1	-47 29	7.8	8.1	Bo	5	..	39864b
7	7938	45.8	-30 54	8.2	9.5	K2	2	..	22915b	57	2555	46.1	-56 23	10.3	10.4	A3	2	..	40105b
8	6410	45.8	-34 5	8.0	8.9	Fo	3	..	13116b	58	2557	46.1	-57 7	9.8	9.8	B9	2	..	40105b
9	6104	45.8	-37 11	9.3	9.3	Ao	2	..	13116b	59	1161	46.1	-65 43	9.3	10.3	Ko	1	..	40074b
10	5952	45.8	-38 29	8.7	8.9	K2	3	..	13116b	60	741	46.2	+65 16	7.50	8.50	Ko	4	..	37517i
11	5541	45.8	-40 31	9.6	9.6	A3	1	..	19157b	61	2387	46.2	+20 38	8.1	9.1	Ko	4	..	37608i
12	5539	45.8	-46 46	10.0	9.9	F8	1	..	39864b	62	2278	46.2	+17 57	8.1	8.6	F8	3	..	37608i
13	1491	45.8	-59 40	7.6	7.0	Ko	6	..	40221b	63	2569	46.2	+ 0 47	8.9	10.0	K2	3	..	13393b
14	1346	45.8	-61 42	8.8	10.4	K2	1	..	40221b	64	2794	46.2	- 3 46	6.00	6.06	A2	10	..	22970b
15	1320	45.8	-62 23	9.1	9.4	Fo	2	..	40221b	65	3004	46.2	-12 28	8.4	9.2	G5	2	..	18996b
16	988	45.8	-68 19	9.0	9.1	A2	2	..	40074b	66	2843	46.2	-19 28	9.2	9.7	Go	2	..	41224b
17	1943	45.9	+31 55	8.5	9.3	G5	2	..	37529i	67	3033	46.2	-20 59	8.1	8.7	Fo	5	0,4	41224b
18	2256	45.9	+ 2 16	9.9	10.5	Go	2	..	13393b	68	7533	46.2	-25 52	8.5	9.0	Ao	5	..	13145b
19	2312	45.9	- 1 33	var.	var.	Nb	1	R	13393b	69	5544	46.2	-40 23	8.7	9.5	Ko	1	..	19157b
20	2905	45.9	- 7 50	9.7	9.7	Ao	3	..	19137b	70	2924	46.2	-53 41	9.2	9.8	Go	2	..	38408b
21	7529	45.9	-25 49	9.4	9.6	A2	2	..	13145b	71	1270	46.3	+59 1	9.3	10.3	Ko	1	..	38224i
22	6194	45.9	-34 39	9.8	9.9	Ao	4	..	22915b	72	1918	46.3	+43 57	7.9	8.9	Ko	3	..	38336i
23	5873	45.9	-39 42	7.48	8.3	Ao	8	0,8	19157b	73	2076	46.3	+38 24	6.74	7.02	Fo	7	..	38241i
24	5283	45.9	-47 35	9.8	9.6	Ao	3	..	39864b	74	2004	46.3	+36 48	7.72	8.14	F5	4	..	38241i
25	2919	45.9	-53 44	9.1	9.5	Fo	4	..	38408b	75	1956	46.3	+29 44	9.01	9.51	F8	2	..	37529i
26	2744	45.9	-54 51	10.0	10.1	A2	2	..	38408b	76	2169	46.3	+24 52	5.33	5.39	A2	10	0, R	38642i
27	2558	45.9	-55 59	8.9	9.5	Ao	3	..	38408b	77	2258	46.3	+ 3 51	7.6	7.6	Ao	9	..	13393b
28	2554	45.9	-56 31	10.3	10.3	Ao	1	..	40105b	78	2274	46.3	+ 3 38	9.2	9.5	Fo	3	..	13393b
29	1507	45.9	-60 46	9.9	10.2	F2	2	..	40221b	79	2314	46.3	- 1 23	7.38	8.45	K2	7	..	22970b
30	1189	45.9	-63 31	8.9	9.3	F5	4	..	40221b	80	2923	46.3	- 5 43	6.52	7.08	Go	10	..	19137b
31	1924	46.0	+30 47	8.6	9.0	F5	2	..	37529i	81	3005	46.3	-13 3	8.7	8.8	A2	3	..	18996b
32	2017	46.0	+26 47	8.8	9.4	Go	2	..	37529i	82	2916	46.3	-15 25	7.45	8.45	Ko	8	..	41224b
33	2568	46.0	+ 0 18	8.9	8.9	Ao	6	..	13393b	83	6985	46.3	-27 39	8.9	9.6	Fo	2	..	13281b
34	2920	46.0	- 6 1	9.5	10.1	Go	1	..	19137b	84	6799	46.3	-32 23	9.0	10.1	Ko	1	..	22915b
35	2740	46.0	-11 15	8.0	9.1	K2	3	..	18996b	85	6801	46.3	-32 37	9.4	10.1	F8	2	..	22915b
36	3031	46.0	-20 36	8.6	8.7	A5	5	0,3	41224b	86	6800	46.3	-32 48	9.0	9.2	G5	4	..	22915b
37	7830	46.0	-30 1	9.2	9.6	Fo	3	..	22915b	87	5971	46.3	-35 48	7.6	8.2	A2	8	..	13116b
38	6791	46.0	-33 7	8.8	10.7	K2	2	..	22915b	88	5387	46.3	-41 18	7.8	8.4	K2	4	..	19157b
39	6414	46.0	-33 39	8.7	9.8	Go	4	..	22915b	89	5386	46.3	-42 6	10.4	9.6	G5	1	..	19157b
40	5381	46.0	-41 34	var.	var.	Mc	..	R	M	90	4727	46.3	-49 19	8.5	8.6	Ko	3	..	39864b
41	4213	46.0	-51 40	7.6	7.7	B8	8	..	38408b	91	2853	46.3	-52 37	8.6	9.2	Ko	4	..	38408b
42	2920	46.0	-53 27	9.2	9.8	Go	3	..	38408b	92	2925	46.3	-53 36	8.7	8.6	F2	7	..	38408b
43	2921	46.0	-53 39	10.3	10.3	Ao	2	..	38408b	93	2358	46.3	-57 35	9.0	9.8	Ko	2	..	40105b
44	1660	46.0	-58 19	9.0	8.8	Fo	4	..	40105b	94	1324	46.3	-62 33	7.8	7.8	Ao	3	..	34089b
45	327	46.1	+78 25	7.48	8.48	Ko	6	5,4	37714i	95	1123	46.3	-69 29	8.8	9.8	Ko	1	..	40074b
46	2020	46.1	+41 27	7.9	8.0	A3	5	..	38241i	96	598	46.3	-76 19	5.35	7.3	Ko	..	R	56,127
47	2275	46.1	+18 52	8.6	9.4	G5	2	..	37608i	97	2021	46.4	+40 52	7.9	8.9	Ko	3	..	38241i
48	2273	46.1	+ 3 2	9.6	10.2	Go	2	..	13393b	98	2154	46.4	+23 29	8.1	8.6	F8	4	..	37608i
49	2958	46.1	-15 10	9.5	10.5	Ko	1	..	41224b	99	2258	46.4	+ 2 8	10.2	10.6	F5	1	..	13393b
50	2899	46.1	-16 45	9.7	10.1	F5	2	..	41224b	100	2906	46.4	- 8 5	9.2	9.5	F2	3	..	19137b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2901	46.4	^{m.} -16 ^o 16	9.1	9.4	Fo	4	..	41224b	51	5961	46.7	-38 22	7.6	8.1	Ao	6	..	13116b
2	2980	46.4	-18 11	7.30	7.72	F5	7	..	41224b	52	5296	46.7	-47 30	9.1	9.9	G5	1	..	39864b
3	2844	46.4	-19 40	8.8	9.6	K5	2	3,2	41224b	53	4734	46.7	-49 52	8.3	8.0	B9	5	..	39864b
4	3036	46.4	-20 37	7.87	8.2	Go	6	0,5	41224b	54	2565	46.7	-56 32	8.8	10.3	K2	2	..	40105b
5	2739	46.4	-22 32	var.	var.	Np	2	R	13145b	55	1501	46.7	-59 48	8.34	8.4	A3	3	..	34089b
6	5546	46.4	-40 51	9.6	9.8	F5	2	..	19157b	56	1196	46.7	-63 58	8.8	10.0	K5	1	..	40221b
7	5475	46.4	-45 42	9.0	9.3	F2	3	..	39864b	57	518	46.8	+71 34	8.1	8.9	G5	4	..	37706i
8	5041	46.4	-48 31	10.2	9.3	A2	2	..	39864b	58	542	46.8	+69 23	8.7	9.1	F5	4	..	37706i
9	4730	46.4	-49 9	7.6	7.8	F8	7	..	39864b	59	1412	46.8	+56 15	8.3	9.3	Ko	3	..	38638i
10	4729	46.4	-49 54	10.9	9.5	A2	1	..	39864b	60	2784	46.8	- 8 27	9.5	9.8	F2	2	..	19137b
11	4563	46.4	-50 9	7.88	7.7	F8	6	..	39864b	61	2940	46.8	-10 52	6.81	8.16	Ma	7	..	18996b
12	2564	46.4	-55 13	9.5	9.5	Ao	3	..	38408b	62	2964	46.8	-14 54	9.2	10.2	Ko	3	..	41224b
13	2562	46.4	-57 5	10.3	10.3	A	1	..	40105b	63	2799	46.8	-19 11	8.0	8.7	Ko	6	5,4	41224b
14	368	46.5	+76 37	9.1	9.7	G	2	..	37714i	64	7705	46.8	-32 3	8.7	9.8	Ko	1	..	22915b
15	1920	46.5	+44 31	8.5	9.0	F8	2	..	38336i	65	5677	46.8	-42 54	8.6	9.0	K2	2	..	19157b
16	2006	46.5	+36 0	7.30	8.48	K5	4	..	38241i	66	5662	46.8	-43 38	9.6	9.0	B5	3	..	19157b
17	2059	46.5	+30 52	8.6	9.2	Go	2	..	37529i	67	5048	46.8	-48 11	9.8	8.9	F8	2	..	39864b
18	2795	46.5	- 3 38	9.2	10.0	G5	1	..	22970b	68	2757	46.8	-55 5	9.7	9.8	A5	3	..	38408b
19	2742	46.5	- 4 29	8.4	9.6	K5	4	..	22970b	69	1667	46.8	-58 21	7.9	7.7	Ao	5	..	34089b
20	2963	46.5	-13 15	7.96	8.96	Ko	5	..	18996b	70	1329	46.8	-62 50	9.5	9.5	Ao	3	..	40221b
21	2960	46.5	-14 12	8.5	9.0	F8	4	..	18996b	71	319	46.9	+80 51	8.07	8.85	G5	4	..	37465i
22	5671	46.5	-43 6	10.2	9.5	Ao	2	..	19157b	72	1220	46.9	+58 10	7.52	8.30	G5	3	..	38638i
23	5659	46.5	-43 11	10.2	9.9	Ao	2	..	19157b	73	1959	46.9	+29 29	9.5	10.1	Go	1	..	37529i
24	1327	46.5	-62 41	8.0	8.4	F5	4	..	40221b	74	2281	46.9	+ 8 36	8.5	9.3	G5	3	..	9463b
25	1219	46.6	+58 30	8.5	9.6	K2	2	..	38224i	75	2196	46.9	+ 6 56	9.2	9.6	F5	3	..	9463b
26	2068	46.6	+35 35	8.27	8.83	Go	2	..	38241i	76	2278	46.9	+ 3 39	9.6	10.2	Go	2	..	13393b
27	1947	46.6	+32 1	7.8	8.6	G5	4	E	37741i	77	2277	46.9	+ 3 18	8.5	9.1	Go	5	..	13393b
28	2170	46.6	+25 36	7.8	8.9	K2	3	..	38642i	78	2798	46.9	- 4 9	9.9	10.0	A2	1	..	22970b
29	2571	46.6	+ 0 4	9.33	9.75	F5	3	..	13393b	79	2908	46.9	- 7 28	9.1	9.2	A5	4	..	19137b
30	2993	46.6	- 2 24	9.1	10.1	Ko	1	..	22970b	80	7545	46.9	-25 25	9.1	9.6	Ko	2	..	13145b
31	2918	46.6	-16 5	8.2	8.6	F5	7	..	41224b	81	7476	46.9	-26 57	8.1	9.6	F8	2	..	13281b
32	6987	46.6	-28 1	8.1	9.1	G5	5	..	22915b	82	5927	46.9	-44 13	9.2	9.0	Ao	5	..	19157b
33	7951	46.6	-30 28	8.7	9.5	K2	3	..	22915b	83	5558	46.9	-46 28	6.02	7.8	Ko	..	0,8	28,204
34	6803	46.6	-32 55	9.0	9.0	Ao	6	..	22915b	84	4228	46.9	-51 29	10.5	9.5	A2	3	..	38408b
35	5044	46.6	-48 22	10.5	9.3	B9	2	..	39864b	85	2759	46.9	-54 48	8.4	8.9	Ao	5	..	38408b
36	4733	46.6	-49 58	7.58	8.6	Ma	3	..	39864b	86	1428	47.0	+52 29	9.0	9.3	Fo	3	..	38638i
37	2362	46.6	-57 26	8.7	8.9	B8	4	..	40105b	87	..	47.0	+ 4 14	..	..	F2	2	..	13393b
38	944	46.6	-70 27	8.6	9.8	K5	2	..	22988b	88	2279	47.0	+ 3 42	9.0	10.2	K5	3	..	13393b
39	1553	46.7	+51 7	7.40	8.18	G5	5	..	38336i	89	2967	47.0	-13 36	7.8	8.8	Ko	7	..	18996b
40	1815	46.7	+28 15	7.70	8.70	Ko	4	..	38642i	90	2800	47.0	-19 0	8.6	9.6	Ko	4	0,1	41224b
41	1819	46.7	+27 27	8.1	9.1	Ko	2	..	38642i	91	7478	47.0	-26 27	9.1	9.6	F2	2	..	13281b
42	2148	46.7	+16 57	8.4	8.4	B9	3	..	37608i	92	6117	47.0	-37 35	8.7	9.3	Ko	1	..	13116b
43	2797	46.7	- 4 0	9.0	9.4	F5	2	..	22970b	93	5971	47.0	-38 21	9.1	9.3	Ao	2	..	13116b
44	2963	46.7	-14 23	4.29	5.29	Ko	..	R	56,87	94	2569	47.0	-57 5	8.6	8.9	A2	4	..	40105b
45	2902	46.7	-17 6	9.2	10.4	K5	1	..	41224b	95	2368	47.0	-57 35	7.6	7.8	B5	7	..	40105b
46	2981	46.7	-18 10	9.5	10.0	F8	1	..	41224b	96	2367	47.0	-57 45	7.9	7.7	B8	6	..	40105b
47	2741	46.7	-22 29	8.94	9.7	G5	1	..	13145b	97	1347	47.0	-61 47	8.8	8.2	Ao	6	..	40221b
48	7543	46.7	-25 28	9.2	9.6	Ko	1	..	13145b	98	945	47.0	-70 18	8.6	8.6	Ao	3	..	22988b
49	7953	46.7	-31 3	7.7	8.0	Fo	6	..	22915b	99	450	47.0	-80 3	8.4	9.4	Ko	5	0,1	21453b
50	7702	46.7	-31 18	8.9	10.4	Ko	1	..	22915b	100	351	47.0	-82 20	8.20	8.5	Ao	7	0,7	13465b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1216	47.1	+60 24	7.12	8.19	K2	6	..	38224i	51	7964	47.4	-30 16	9.30	9.6	F5	3	..	22915b
2	1557	47.1	+46 10	8.7	9.5	G5	2	..	38291i	52	6123	47.4	-37 43	7.5	8.7	G5	6	..	13116b
3	2019	47.1	+26 29	4.10	5.10	Ko	..	R	1841c	53	2875	47.4	-52 50	8.6	8.6	A5	7	..	38408b
4	2280	47.1	+ 2 55	5.88	5.88	Ao	7	..	38657i	54	2876	47.4	-53 5	8.8	9.3	Ko	5	..	38408b
5	2573	47.1	+ 0 33	6.29	7.29	Ko	10	..	13393b	55	1509	47.4	-59 57	9.4	9.4	B9	2	..	40105b
6	2574	47.1	+ 0 18	9.2	10.4	K5	2	..	13393b	56	1555	47.5	+51 1	8.3	8.6	Fo	5	E	38336i
7	2945	47.1	- 9 23	8.0	9.1	K2	5	..	19137b	57	2138	47.5	+22 36	8.5	9.7	K5	2	..	37608i
8	2965	47.1	-14 28	9.2	10.2	K	1	..	18996b	58	2909	47.5	- 7 38	5.16	5.22	A2	..	R	56,87
9	2849	47.1	-19 18	8.7	9.6	Ko	2	0,1	41224b	59	2788	47.5	- 8 46	7.8	8.9	K2	6	..	19137b
10	2850	47.1	-19 35	8.0	9.0	K2	5	2,4	41224b	60	6999	47.5	-27 52	9.1	9.7	F8	3	..	15600b
11	7709	47.1	-31 17	9.9	9.8	Fo	2	..	22915b	61	7854	47.5	-29 30	9.2	10.0	Fo	1	..	22915b
12	5678	47.1	-43 1	8.4	8.4	K5	5	..	19157b	62	6215	47.5	-34 48	8.7	9.0	F5	2	..	13116b
13	1508	47.1	-60 8	8.49	8.1	B8	6	..	40221b	63	5499	47.5	-45 44	5.72	7.3	Ko	..	0,6	28,204
14	1164	47.1	-65 41	9.4	9.8	F5	2	..	40221b	64	4749	47.5	-50 3	10.5	9.6	Ao	1	..	39864b
15	743	47.2	+65 43	9.1	10.1	Ko	2	..	38654i	65	4241	47.5	-52 5	11.5	9.6	F5	1	..	38408b
16	2156	47.2	+23 6	8.1	9.1	Ko	3	..	38642i	66	2878	47.5	-52 49	8.9	9.0	A2	4	..	38408b
17	2262	47.2	+ 2 46	8.9	9.2	F2	3	..	13393b	67	1510	47.5	-60 30	8.7	8.7	B8	5	..	40221b
18	2787	47.2	- 8 28	10.1	10.7	Go	1	..	19137b	68	1105	47.5	-64 42	9.7	9.8	A2	1	..	40221b
19	2920	47.2	-16 4	6.31	7.31	Ko	9	..	41224b	69	2261	47.6	+ 4 21	9.6	10.2	Go	3	..	13393b
20	2904	47.2	-16 53	9.0	9.6	Go	3	..	41224b	70	2283	47.6	+ 3 26	8.6	8.7	A2	7	..	13393b
21	6431	47.2	-33 59	9.4	10.1	F2	3	..	22915b	71	2790	47.6	- 8 55	9.2	9.3	A2	3	..	19137b
22	6119	47.2	-37 31	9.4	9.4	F5	1	..	13116b	72	2970	47.6	-14 53	9.1	10.1	Ko	1	..	41224b
23	6120	47.2	-38 4	9.4	9.3	A2	2	..	13116b	73	2851	47.6	-19 45	10.1	9.9	F5	1	..	41224b
24	5053	47.2	-48 7	10.0	9.2	Ao	3	..	39864b	74	8806	47.6	-23 27	8.7	9.0	F5	3	..	13145b
25	4572	47.2	-51 2	8.8	9.0	K2	1	..	39864b	75	7488	47.6	-26 56	8.7	9.0	A2	3	E	13145b
26	4234	47.2	-51 42	9.4	9.3	F2	4	..	38408b	76	7692	47.6	-28 36	8.1	9.4	Ko	4	..	22915b
27	4233	47.2	-52 3	10.5	9.5	A	1	..	38408b	77	6821	47.6	-32 31	7.18	7.7	G5	5	..	22915b
28	2765	47.2	-54 12	9.8	9.8	Ao	3	..	38408b	78	6218	47.6	-34 26	10.2	9.9	A2	2	..	22915b
29	2579	47.2	-55 26	9.1	9.5	Ao	3	..	38408b	79	5400	47.6	-42 3	9.6	9.3	A2	3	..	19157b
30	1668	47.2	-59 0	8.3	9.0	G5	4	..	40105b	80	4750	47.6	-49 46	10.2	9.3	Ao	2	..	39864b
31	1505	47.2	-59 32	9.0	9.6	G5	2	..	40105b	81	2588	47.6	-55 42	9.8	9.8	Ao	1	..	38408b
32	1506	47.2	-59 46	9.7	9.7	B9	2	..	40105b	82	389	47.7	+77 6	7.88	8.66	G5	6	5,4	37714i
33	588	47.3	+70 31	8.3	9.1	G5	3	..	37706i	83	1151	47.7	+61 36	6.42	7.42	Ko	8	..	38654i
34	543	47.3	+69 33	Neb.	Neb.	Con.	2	R	37706i	84	1413	47.7	+56 35	9.0	10.1	K2	1	..	38638i
35	2244	47.3	+ 4 53	9.11	9.89	G5	2	..	13393b	85	2073	47.7	+35 28	7.02	8.09	K2	5	..	38241i
36	2745	47.3	- 5 5	9.7	9.7	Ao	2	..	19137b	86	2391	47.7	+20 25	7.46	8.24	G5	5	..	37608i
37	3016	47.3	- 7 8	8.4	9.6	K5	2	..	19137b	87	2747	47.7	- 4 24	8.6	9.0	F5	2	..	22970b
38	2968	47.3	-13 17	9.0	9.8	G5	2	..	18996b	88	2927	47.7	- 5 41	8.4	9.4	Ko	4	..	19137b
39	7716	47.3	-31 36	9.4	10.4	A2	1	..	22915b	89	2988	47.7	-17 34	9.5	9.6	A2	2	..	41224b
40	5306	47.3	-47 36	10.2	9.3	Ao	3	..	39864b	90	7493	47.7	-26 16	9.9	9.3	Go	7	..	15600b
41	2872	47.3	-52 55	9.0	8.9	B	3	R	38408b	91	7492	47.7	-26 17	10.2	9.1	Go	6	2,5	15600b
42	1095	47.3	-67 2	9.3	9.3	Ao	3	..	40074b	92	7720	47.7	-31 58	8.9	10.5	K2	1	..	22915b
43	1125	47.3	-69 36	7.8	8.2	F5	4	..	22988b	93	5685	47.7	-43 4	9.8	8.9	Ao	3	..	19157b
44	624	47.4	+67 46	9.3	10.5	K5	1	..	38654i	94	2883	47.7	-52 43	8.6	8.9	Fo	6	..	38408b
45	2048	47.4	+34 25	8.3	9.1	G5	2	..	38241i	95	2885	47.7	-52 43	8.8	8.9	B5	4	..	38408b
46	1925	47.4	+30 45	9.5	10.1	G	1	..	37529i	96	1510	47.7	-60 4	7.54	7.3	Ao	5	..	34089b
47	2259	47.4	+ 4 0	9.6	10.2	Go	3	..	13393b	97	..	47.8	+35 24	var.	var.	Md	..	R	M
48	2995	47.4	- 2 32	9.0	10.0	Ko	2	..	22970b	98	2065	47.8	+10 4	8.9	9.7	G5	2	..	37610i
49	2946	47.4	-10 6	9.21	9.71	F8	3	..	19137b	99	2910	47.8	- 7 19	9.7	10.3	G	1	R	19137b
50	8801	47.4	-23 45	8.1	8.7	Ko	4	..	13145b	100	2909	47.8	-16 58	8.6	8.9	Fo	4	..	41224b

85600

9h 47m.8

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8809	47.8	-23 18	9.4	9.0	G5	2	..	13145b	51	7498	48.1	-26 45	9.4	9.9	G5	2	..	15600b
2	7695	47.8	-28 12	8.9	8.7	Ao	5	..	22915b	52	6230	48.1	-34 38	8.4	8.5	A2	4	..	13116b
3	5504	47.8	-45 23	9.4	9.6	Ao	2	..	39864b	53	5695	48.1	-42 31	9.6	8.9	Ao	3	..	19157b
4	5507	47.8	-46 3	7.5	7.3	B8	..	3,7	28,204	54	2955	48.1	-53 14	10.1	10.1	Ao	2	..	38408b
5	5316	47.8	-47 28	9.2	9.9	Ko	1	..	39864b	55	1673	48.1	-58 57	5.78	7.4	K2	..	2,7	56,127
6	5065	47.8	-48 29	9.6	9.5	Ko	1	..	39864b	56	1335	48.1	-62 17	5.59	7.4	Ko	..	0,7	56,127
7	5067	47.8	-49 3	10.5	9.2	A3	2	..	39864b	57	1924	48.2	+44 42	9.42	9.98	Go	3	..	38336i
8	4248	47.8	-51 28	8.9	8.1	Ao	3	..	39864b	58	1972	48.2	+43 45	8.9	9.3	F5	3	..	38336i
9	2592	47.8	-55 13	9.8	9.8	Ao	2	..	38408b	59	1964	48.2	+29 39	9.08	9.50	F5	2	..	37529i
10	2379	47.8	-57 39	8.9	9.5	Go	2	..	40105b	60	2279	48.2	+19 24	7.9	7.9	Ao	5	..	37608i
11	1511	47.8	-60 37	9.1	9.9	Ao	2	..	40221b	61	2375	48.2	+ 1 18	9.2	10.2	Ko	2	..	13393b
12	1149	47.8	-67 57	6.84	7.8	G5	7	..	40074b	62	5683	48.2	-43 20	8.5	8.5	A5	6	..	19157b
13	467	47.8	-78 51	9.6	10.2	Go	2	..	21453b	63	5073	48.2	-48 11	9.8	9.8	Ko	1	..	39864b
14	1963	47.9	+29 39	9.26	9.82	Go	1	..	37529i	64	5074	48.2	-48 24	10.2	9.3	Ao	2	..	39864b
15	2021	47.9	+26 7	7.04	8.11	K2	6	..	38642i	65	4758	48.2	-49 36	9.2	9.2	Go	2	..	39864b
16	2373	47.9	+ 1 37	8.3	9.3	Ko	4	..	13393b	66	2790	48.2	-54 55	8.23	8.3	A5	7	..	38408b
17	2921	47.9	-15 55	8.6	9.1	F8	5	..	41224b	67	1676	48.2	-58 40	8.8	10.2	Ma	1	..	40105b
18	2991	47.9	-17 38	9.2	10.2	K	1	..	41224b	68	1513	48.2	-59 19	8.9	9.6	A2	3	..	40105b
19	2803	47.9	-18 43	9.7	10.1	F5	1	..	41224b	69	1514	48.2	-59 21	9.3	10.5	K5	1	..	40105b
20	5403	47.9	-41 58	9.8	9.5	Ao	3	..	19157b	70	1101	48.2	-66 40	8.4	8.7	Fo	5	..	40221b
21	5944	47.9	-44 41	7.9	8.2	B9	9	..	19157b	71	642	48.2	-74 22	9.3	10.1	G5	2	..	21453b
22	5508	47.9	-46 5	4.56	6.9	G5	..	0,8 R	28,204	72	1816	48.3	+28 10	7.57	7.57	Ao	7	..	38642i
23	2887	47.9	-52 25	8.5	8.9	Go	6	..	38408b	73	1821	48.3	+27 45	9.1	10.1	Ko	1	..	37529i
24	2950	47.9	-53 20	9.5	9.8	Fo	2	..	38408b	74	2393	48.3	+20 43	9.5	10.3	G5	2	..	37608i
25	2593	47.9	-55 48	8.4	9.5	K5	3	..	38408b	75	2264	48.3	+ 2 31	var.	var.	A2	3	R	13393b
26	2380	47.9	-57 30	8.9	10.1	Ko	1	..	40105b	76	2263	48.3	- 0 19	8.38	9.45	K2	5	..	13393b
27	1511	47.9	-59 9	9.0	9.0	Ao	2	..	40105b	77	2928	48.3	-21 29	9.9	9.6	A2	2	..	13145b
28	1169	47.9	-65 39	8.8	8.9	A2	5	..	40221b	78	7502	48.3	-26 48	10.2	10.5	K5	1	..	15600b
29	1098	47.9	-66 16	8.7	8.7	B9	4	..	40221b	79	7867	48.3	-29 23	9.4	9.9	F2	2	..	22915b
30	552	47.9	-77 29	10.0	10.0	Ao	1	..	21453b	80	7981	48.3	-30 47	8.9	9.3	G5	2	..	22915b
31	640	48.0	+66 15	8.6	9.2	Go	3	..	38654i	81	5953	48.3	-44 35	9.2	9.0	A2	4	..	19157b
32	2022	48.0	+26 33	8.8	9.3	F8	1	..	37529i	82	5078	48.3	-49 4	9.6	9.8	K2	1	..	39864b
33	2117	48.0	+11 38	8.7	9.5	G5	1	..	37610i	83	2792	48.3	-54 11	7.2	7.7	Go	8	..	38408b
34	2245	48.0	+ 5 0	8.3	8.4	A2	7	..	13393b	84	1514	48.3	-60 38	8.5	10.4	K5	1	..	40221b
35	2912	48.0	- 7 49	9.9	10.2	F2	2	..	19137b	85	1107	48.3	-64 59	8.18	8.1	B8	6	..	40221b
36	2992	48.0	-17 53	9.0	10.0	Ko	2	..	41224b	86	878	48.3	-71 48	9.6	9.7	A2	2	..	39946b
37	8812	48.0	-23 15	8.5	8.7	G5	4	..	13145b	87	622	48.3	-75 42	9.0	9.1	A2	5	..	21453b
38	5682	48.0	-43 27	10.9	10.1	Ao	2	..	19157b	88	1925	48.4	+44 15	8.7	9.2	F8	3	..	38336i
39	2952	48.0	-53 23	9.4	9.5	A2	3	..	38408b	89	2127	48.4	+15 12	7.89	8.45	Go	5	..	37610i
40	2382	48.0	-57 33	9.0	9.8	G5	2	..	40105b	90	2953	48.4	- 9 26	7.04	7.04	Ao	10	..	19137b
41	1512	48.0	-59 22	9.3	9.6	Fo	3	..	40105b	91	2752	48.4	-12 8	8.6	9.6	Ko	4	..	18996b
42	656	48.0	-73 26	8.7	9.1	F5	4	..	21453b	92	3013	48.4	-13 5	8.6	9.4	G5	2	..	18996b
43	621	48.0	-75 19	6.90	7.4	F5	10	..	21453b	93	7503	48.4	-26 17	7.9	8.5	A5	7	..	13145b
44	474	48.1	+71 53	9.3	9.8	F8	2	..	37714i	94	7871	48.4	-29 54	9.5	9.4	Ao	4	..	22915b
45	1894	48.1	+48 49	8.6	9.6	Ko	2	..	38336i	95	5703	48.4	-42 30	9.6	9.8	K2	1	..	19157b
46	2374	48.1	+ 1 26	9.0	9.8	G5	2	..	13393b	96	5685	48.4	-43 11	10.5	9.9	Ao	2	..	19157b
47	3020	48.1	- 6 53	9.0	10.1	K2	2	..	19137b	97	4257	48.4	-51 54	9.4	8.6	A5	6	..	38408b
48	2923	48.1	-15 27	8.6	9.7	K2	4	..	41224b	98	2957	48.4	-53 53	9.8	9.8	Ao	3	..	38408b
49	2993	48.1	-17 48	8.6	9.0	F5	4	..	41224b	99	2600	48.4	-56 2	9.0	9.0	Ao	4	..	38408b
50	7499	48.1	-26 21	10.2	9.9	Ao	2	..	15600b	100	2592	48.4	-56 34	9.8	9.8	Ao	3	..	40105b

THE HENRY DRAPER CATALOGUE.

85700

9^h 48^m.4

1919AnHar...94...1C

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1515	48.4	-59 52	8.8	8.5	Go	3	..	40221b	51	2955	48.8	-9 39	8.7	9.2	F8	4	..	19137b
2	1337	48.4	-62 42	8.4	8.4	Ao	4	..	40221b	52	2806	48.8	-19 1	7.6	8.4	G5	5	..	13145b
3	1201	48.4	-63 47	8.2	9.2	Ko	5	..	40221b	53	3042	48.8	-20 34	9.0	9.3	G5	2	..	41224b
4	553	48.4	-78 6	8.8	10.0	K5	4	..	21453b	54	2751	48.8	-22 18	9.0	9.6	Ko	2	..	13145b
5	321	48.5	+80 53	8.6	9.1	F8	2	..	37465i	55	7574	48.8	-25 41	8.3	9.4	K5	2	..	13145b
6	2061	48.5	+42 38	8.7	9.7	Ko	2	..	38336i	56	5994	48.8	-35 30	8.7	9.7	Ma	3	..	22915b
7	2077	48.5	+35 14	8.5	9.7	K5	1	..	38241i	57	5583	48.8	-46 40	9.8	9.9	K	1	..	39864b
8	2066	48.5	+31 8	8.1	8.5	F5	3	..	37529i	58	2903	48.8	-52 11	7.4	8.4	Ko	8	..	38408b
9	2224	48.5	+6 26	6.27	7.62	Ma	9	..	13393b	59	2800	48.8	-54 8	9.0	9.5	Fo	4	..	38408b
10	2264	48.5	-1 9	8.6	9.7	K2	3	..	22970b	60	1338	48.8	-62 33	9.5	9.6	A2	2	..	40221b
11	2915	48.5	-7 34	9.7	10.3	G	1	..	19137b	61	2247	48.9	+5 25	9.2	10.2	Ko	2	..	13393b
12	2971	48.5	-13 29	8.8	9.1	F2	3	..	18996b	62	2248	48.9	+5 25	6.98	8.16	K5	8	..	13393b
13	8819	48.5	-23 56	8.9	9.7	Ko	2	..	13145b	63	2803	48.9	-3 33	9.5	10.3	G5	1	..	22970b
14	5704	48.5	-43 5	10.5	9.5	A	1	..	19157b	64	2915	48.9	-17 2	9.5	9.5	Ao	3	..	41224b
15	2594	48.5	-56 39	8.9	9.0	B9	4	..	40105b	65	8831	48.9	-23 38	8.1	9.3	K5	2	..	13145b
16	1678	48.5	-58 49	8.7	8.7	Ao	3	..	40105b	66	7989	48.9	-30 26	10.4	10.0	A2	2	..	22915b
17	1774	48.6	+45 9	9.1	9.9	G5	3	..	38336i	67	2599	48.9	-56 31	9.5	9.5	B8	3	..	40105b
18	2288	48.6	+39 36	8.7	9.7	Ko	1	..	38241i	68	1516	48.9	-59 58	8.54	8.7	Go	5	..	40221b
19	1950	48.6	+32 44	8.5	9.3	G5	2	E	37529i	69	1352	48.9	-61 34	8.7	8.7	B9	4	..	40221b
20	2067	48.6	+10 44	7.9	9.3	Mb	2	..	37610i	70	1416	49.0	+55 53	9.3	10.3	Ko	1	..	38224i
21	3003	48.6	-2 21	9.0	10.1	K2	1	..	22970b	71	1818	49.0	+27 49	8.9	9.9	Ko	1	..	37529i
22	2924	48.6	-15 30	9.5	10.7	K5	1	..	41224b	72	2956	49.0	-10 7	8.31	8.73	F5	5	..	18996b
23	2994	48.6	-17 27	7.8	9.2	Ma	4	..	41224b	73	2754	49.0	-22 22	9.5	9.9	Ko	1	..	13145b
24	3040	48.6	-20 20	8.93	9.3	Go	3	..	41224b	74	2753	49.0	-22 29	8.58	9.3	Ko	3	..	13145b
25	7505	48.6	-26 52	6.32	7.3	F8	4	..	7734b	75	5700	49.0	-43 49	10.2	10.1	F8	1	..	19157b
26	6839	48.6	-32 18	9.3	10.7	Ko	1	..	22915b	76	4772	49.0	-49 50	10.2	9.3	B9	1	..	39864b
27	6134	48.6	-37 40	9.1	9.6	Ko	1	..	13116b	77	4265	49.0	-51 14	7.5	7.6	B5	6	..	39864b
28	5916	48.6	-39 31	8.0	8.6	A2	6	0.6	13116b	78	2613	49.0	-55 16	9.7	9.8	A3	2	..	38408b
29	5917	48.6	-40 5	9.18	8.9	B9	3	..	19157b	79	2600	49.0	-56 11	9.1	10.4	Ko	2	..	40105b
30	5708	48.6	-42 11	9.2	9.5	Ko	1	..	19157b	80	1679	49.0	-58 22	8.0	9.3	K5	4	..	40105b
31	2963	48.6	-53 33	10.4	10.4	Ao	2	..	38408b	81	1517	49.0	-59 28	8.8	8.8	B8	4	..	40105b
32	872	48.6	-72 52	8.8	9.4	Go	2	..	39946b	82	469	49.0	-78 19	8.7	9.5	G5	6	..	21453b
33	643	48.6	-74 56	10.0	10.1	A2	2	..	21453b	83	1896	49.1	+48 56	7.9	8.0	A2	4	..	38336i
34	2802	48.7	-3 24	7.34	7.32	B9	8	..	22970b	84	2792	49.1	-8 15	9.1	10.2	K2	1	..	19137b
35	2925	48.7	-15 17	8.66	10.01	Ma	1	..	41224b	85	7886	49.1	-29 15	9.1	9.9	F8	3	..	22915b
36	2750	48.7	-23 13	7.8	8.7	Ko	4	..	13145b	86	7887	49.1	-29 58	10.2	10.5	Go	1	..	22915b
37	5710	48.7	-42 18	9.6	9.0	A2	3	..	19157b	87	6467	49.1	-33 39	8.7	9.0	Ao	2	..	13116b
38	5517	48.7	-45 48	9.0	9.0	A2	4	..	39864b	88	5994	49.1	-36 57	8.7	9.0	F8	4	..	13116b
39	2968	48.7	-53 25	8.7	8.1	Ao	7	..	38408b	89	5718	49.1	-42 18	9.8	9.0	Ao	3	..	19157b
40	2964	48.7	-53 49	8.4	8.6	B	6	R	38408b	90	4267	49.1	-51 58	11.5	9.5	A2	2	..	38408b
41	1516	48.7	-60 7	7.69	8.4	Ko	6	..	40221b	91	2907	49.1	-53 3	8.3	8.9	Go	6	..	38408b
42	174	48.7	-86 47	8.0	8.0	Ao	7	..	13459b	92	2396	49.1	-57 47	9.5	9.5	Ao	3	..	40105b
43	544	48.8	+69 22	9.3	10.3	K	1	..	37706i	93	600	49.1	-76 33	8.4	9.4	Ko	5	..	21453b
44	2079	48.8	+37 54	8.6	8.6	Ao	3	..	38241i	94	390	49.2	+77 45	8.5	9.3	G5	2	..	37465i
45	1969	48.8	+29 10	8.1	8.5	F5	2	E	38642i	95	1698	49.2	+50 17	5.34	5.40	A2	..	O,R	56,87
46	2141	48.8	+21 56	9.7	10.2	F8	1	..	38642i	96	2262	49.2	+3 48	8.1	8.4	Fo	8	..	13393b
47	2152	48.8	+17 38	8.3	9.1	G5	2	..	37608i	97	2976	49.2	-14 11	9.2	9.5	F2	2	..	18996b
48	2285	48.8	+8 33	7.09	7.87	G5	5	..	37610i	98	2856	49.2	-19 22	9.0	9.3	G5	1	..	13145b
49	2203	48.8	+7 25	8.5	8.6	A3	7	..	13393b	99	3043	49.2	-20 36	9.5	9.9	K2	1	..	41224b
50	2377	48.8	+1 46	10.2	10.8	G	1	..	13393b	100	2933	49.2	-22 4	9.0	9.6	G5	2	..	13145b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7888	49.2	m. ° ' 29 31	9.4	10.5	Ko	1	..	22915b	51	2984	49.5	° ' 53 44	8.9	8.9	B9	4	..	38408b
2	7994	49.2	° ' 30 13	9.45	10.5	Ko	2	..	22915b	52	1519	49.5	° ' 60 31	8.7	9.0	Ao	3	..	40221b
3	5996	49.2	° ' 36 47	8.7	8.8	A2	4	..	13116b	53	1110	49.5	° ' 66 19	8.6	8.6	B9	5	..	40221b
4	6142	49.2	° ' 37 56	7.44	8.1	F8	7	..	13116b	54	414	49.6	° ' +73 58	8.9	9.2	Fo	4	..	37714i
5	5926	49.2	° ' 39 21	8.7	8.9	A3	4	0.4	13116b	55	2206	49.6	° ' + 7 38	8.3	8.3	Ao	6	..	9463b
6	5587	49.2	° ' 46 13	8.8	9.3	G5	3	..	39864b	56	2263	49.6	° ' + 4 29	8.5	8.9	F5	5	..	13393b
7	4601	49.2	° ' 50 34	9.2	8.9	A2	3	..	39864b	57	2752	49.6	° ' - 4 37	8.7	9.8	K2	3	..	19137b
8	2977	49.2	° ' 53 29	9.3	10.1	G5	2	..	38408b	58	3019	49.6	° ' -12 27	8.5	8.5	Ao	6	..	18996b
9	2976	49.2	° ' 53 51	9.1	9.5	B	3	..	38408b	59	7585	49.6	° ' -25 28	5.00	7.1	Ko	..	0.7	56.87
10	2808	49.2	° ' 54 59	8.18	8.3	B8	7	..	38408b	60	7035	49.6	° ' -27 32	6.88	6.7	B9	4	..	7734b
11	2619	49.2	° ' 55 35	8.9	10.3	Fo	2	..	38408b	61	6854	49.6	° ' -32 46	7.56	7.6	Fo	6	5.6	22915b
12	2618	49.2	° ' 55 45	9.1	9.8	A2	1	..	38408b	62	6145	49.6	° ' -37 35	9.4	9.1	F5	2	..	13116b
13	1680	49.2	° ' 58 53	9.5	10.1	Go	1	..	40105b	63	5423	49.6	° ' -41 50	8.0	8.3	F2	8	..	19157b
14	1156	49.2	° ' 67 36	9.8	9.8	A	1	..	40074b	64	5424	49.6	° ' -41 59	9.0	9.8	G5	1	..	19157b
15	873	49.2	° ' 72 45	9.1	9.1	Ao	3	..	39946b	65	5728	49.6	° ' -42 20	10.0	9.5	F	1	..	19157b
16	1221	49.3	° ' +59 55	8.31	9.38	K2	3	..	38224i	66	5591	49.6	° ' -46 17	9.0	9.3	Go	2	..	39864b
17	2266	49.3	° ' + 2 23	9.6	10.4	G5	2	..	13393b	67	4280	49.6	° ' -51 36	9.1	9.3	K2	2	..	38408b
18	2379	49.3	° ' + 0 55	9.19	9.69	F8	4	..	13393b	68	4279	49.6	° ' -52 6	10.9	9.5	Ao	1	..	38408b
19	7514	49.3	° ' -26 7	9.7	9.7	Go	3	..	15600b	69	2911	49.6	° ' -52 25	8.8	8.9	F2	5	..	38408b
20	7748	49.3	° ' -31 38	7.90	8.4	F8	7	..	22915b	70	2815	49.6	° ' -54 17	10.1	10.1	Ao	2	..	38408b
21	5706	49.3	° ' -44 7	7.5	8.1	F5	8	..	19157b	71	2816	49.6	° ' -54 54	6.68	6.7	Bo	8	..	38797b
22	5339	49.3	° ' -48 1	9.6	10.2	Ko	1	..	39864b	72	1519	49.6	° ' -59 46	9.9	9.9	Ao	2	..	40105b
23	5098	49.3	° ' -49 2	10.5	9.3	Go	1	..	39864b	73	1343	49.6	° ' -62 18	8.9	9.0	A2	3	..	40221b
24	4775	49.3	° ' -49 18	9.4	9.2	A3	3	..	39864b	74	879	49.6	° ' -71 40	8.5	8.6	A3	4	..	22988b
25	4603	49.3	° ' -51 1	8.3	9.2	K5	1	..	39864b	75	624	49.6	° ' -75 24	9.7	10.2	F8	2	..	21453b
26	1353	49.3	° ' -61 57	8.4	8.7	F5	4	..	40221b	76	1337	49.7	° ' +54 44	6.76	8.11	Ma	6	..	38638i
27	658	49.3	° ' -73 44	7.8	7.8	Ao	9	..	21453b	77	1338	49.7	° ' +54 31	8.9	9.4	F8	1	..	38638i
28	545	49.4	° ' +68 57	8.1	9.1	Ko	5	..	37706i	78	2027	49.7	° ' +37 40	8.7	9.5	G5	2	..	38241i
29	1431	49.4	° ' +52 44	6.79	7.79	Ko	7	..	38638i	79	2267	49.7	° ' + 2 21	9.9	10.3	F5	2	..	13393b
30	1557	49.4	° ' +51 40	8.6	9.0	F5	3	..	38638i	80	2807	49.7	° ' - 3 31	9.2	9.7	F8	2	..	22970b
31	2205	49.4	° ' + 7 33	9.2	9.5	Fo	4	..	9463b	81	2920	49.7	° ' - 7 21	8.5	8.5	Ao	5	..	19137b
32	2380	49.4	° ' + 1 40	9.4	10.4	Ko	1	..	13393b	82	2756	49.7	° ' -11 35	9.5	10.0	F8	1	..	18996b
33	2381	49.4	° ' + 1 25	7.68	8.18	F8	8	..	13393b	83	3021	49.7	° ' -12 28	7.02	7.52	F8	9	..	18996b
34	2266	49.4	° ' - 0 48	8.3	8.3	B8	6	..	22970b	84	2917	49.7	° ' -16 54	9.2	10.3	K2	1	..	41224b
35	2997	49.4	° ' -17 48	8.0	8.3	F2	7	..	41224b	85	2857	49.7	° ' -19 50	8.5	9.0	G5	3	..	13145b
36	5340	49.4	° ' -47 48	9.8	9.6	F2	2	..	39864b	86	7586	49.7	° ' -25 42	10.4	9.9	G5	2	..	15600b
37	5100	49.4	° ' -48 27	8.0	8.0	Ko	5	..	39864b	87	6146	49.7	° ' -37 49	8.0	8.7	Ao	4	..	13116b
38	4273	49.4	° ' -51 38	8.0	8.1	G5	7	..	38408b	88	5425	49.7	° ' -41 22	7.4	7.8	Fo	8	..	19157b
39	2981	49.4	° ' -53 27	9.9	10.3	F5	1	..	38408b	89	4613	49.7	° ' -51 2	10.0	8.9	A2	2	..	39864b
40	1341	49.4	° ' -62 11	9.0	9.0	Ao	3	..	40221b	90	4282	49.7	° ' -51 24	9.6	8.3	B8	6	..	38408b
41	478	49.5	° ' +73 21	5.96	6.96	Ko	9	..	37714i	91	2820	49.7	° ' -54 33	8.9	10.9	Ko	1	..	38408b
42	1778	49.5	° ' +45 39	8.9	9.7	G5	4	..	38336i	92	556	49.7	° ' -77 49	7.8	7.8	B8	10	..	21453b
43	2178	49.5	° ' +25 7	7.16	7.66	F8	7	..	38642i	93	625	49.8	° ' +67 14	8.5	9.6	K2	3	..	38654i
44	2581	49.5	° ' + 0 3	8.1	8.2	A2	7	..	13393b	94	2753	49.8	° ' - 5 5	8.90	9.18	Fo	5	..	19137b
45	2319	49.5	° ' - 2 9	8.07	9.07	Ko	6	..	22970b	95	2921	49.8	° ' - 7 29	9.7	10.5	G5	2	..	19137b
46	2806	49.5	° ' - 3 58	8.6	9.7	K2	4	..	22970b	96	2918	49.8	° ' -17 9	9.5	9.6	A3	2	..	41224b
47	8551	49.5	° ' -25 0	8.34	9.3	K2	3	..	13145b	97	2756	49.8	° ' -22 51	8.6	8.5	Go	3	..	13145b
48	6003	49.5	° ' -35 56	10.0	9.3	Ko	2	..	13116b	98	5594	49.8	° ' -41 4	9.0	9.5	Fo	1	..	19157b
49	5726	49.5	° ' -42 44	9.0	9.3	Ko	2	..	19157b	99	4284	49.8	° ' -51 16	9.2	9.5	Ko	1	..	38408b
50	4608	49.5	° ' -50 28	9.0	8.7	F8	2	..	39864b	100	2607	49.8	° ' -56 58	9.8	9.8	Ao	2	..	40105b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	394	49.8	-80 36	8.19	9.4	Ma	6	5,I	21453b	51	2810	50.2	-18 32	5.16	6.51	Ma	..	5,10	28,204
2	2083	49.9	+38 33	8.1	8.7	Go	4	..	38241i	52	8563	50.2	-24 28	9.4	9.9	F5	1	..	15600b
3	2072	49.9	+31 38	8.8	10.0	K5	..	..	M	53	4622	50.2	-50 40	6.00	6.7	B3	..	2,10	56,127
4	2582	49.9	+0 17	8.1	9.5	Ma	5	..	13393b	54	4291	50.2	-51 10	9.8	9.2	F5	3	..	38408b
5	2935	49.9	-22 1	6.34	6.4	A2	6	..	7734b	55	1521	50.2	-59 41	10.1	10.1	A0	2	..	40105b
6	7042	49.9	-28 2	8.7	9.3	G5	2	E	22915b	56	1356	50.2	-61 52	8.2	8.4	A0	3	..	34089b
7	7724	49.9	-28 21	8.5	9.6	K0	2	E	22915b	57	557	50.2	-77 29	9.9	10.0	A2	2	..	21453b
8	6859	49.9	-32 51	9.0	9.0	G5	3	..	22915b	58	1933	50.3	+30 15	8.1	8.6	F8	4	..	37529i
9	6003	49.9	-36 9	9.4	9.1	A0	3	..	13116b	59	2287	50.3	+8 33	9.2	9.5	F2	4	..	9463b
10	5545	49.9	-45 21	9.6	9.6	A2	2	..	39864b	60	2289	50.3	+3 29	10.6	11.2	Go	1	..	13393b
11	4618	49.9	-50 9	9.8	9.3	A0	1	..	39864b	61	2948	50.3	-10 34	7.56	8.63	K2	7	..	18996b
12	2608	49.9	-56 42	9.0	9.5	F0	3	..	40105b	62	7906	50.3	-29 14	8.3	9.3	F5	3	..	22915b
13	1683	49.9	-58 53	9.9	9.9	B9	2	..	40105b	63	6256	50.3	-34 26	7.15	8.1	A2	8	..	13116b
14	1111	49.9	-66 39	8.7	8.7	A0	4	..	40221b	64	6009	50.3	-36 49	7.50	8.2	F2	7	..	13116b
15	762	50.0	+63 50	7.67	8.45	G5	4	0,4	38654i	65	6152	50.3	-37 43	9.1	9.7	K2	2	..	39922b
16	2072	50.0	+10 34	8.1	8.9	G5	3	..	37610i	66	5736	50.3	-42 27	8.0	8.3	G5	7	..	19157b
17	2268	50.0	-0 55	8.9	9.7	G5	2	..	22970b	67	5605	50.3	-46 37	9.6	10.1	K0	1	..	39864b
18	3027	50.0	-7 0	9.2	10.3	K2	1	..	19137b	68	5354	50.3	-47 44	9.4	9.3	A0	4	..	39864b
19	2938	50.0	-21 43	9.0	9.7	A5	2	..	13145b	69	2634	50.3	-55 31	9.5	9.5	A0	3	..	38408b
20	8005	50.0	-30 56	9.1	10.0	K2	1	..	22915b	70	1347	50.3	-63 2	9.1	9.6	F8	3	..	40221b
21	6004	50.0	-35 52	9.4	9.4	A5	1	..	13116b	71	661	50.3	-74 1	10.0	10.1	A3	1	..	21453b
22	5716	50.0	-43 25	10.5	10.1	A	1	..	19157b	72	1820	50.4	+47 57	8.7	9.7	K0	2	..	38336i
23	5348	50.0	-47 44	9.4	9.6	A0	3	..	39864b	73	1931	50.4	+44 27	8.3	8.8	F8	2	..	38291i
24	2994	50.0	-53 49	8.3	8.6	B8	7	..	38408b	74	2012	50.4	+35 47	7.7	8.7	K0	3	..	38241i
25	2831	50.0	-54 30	9.5	10.1	Go	1	..	38408b	75	1953	50.4	+32 44	8.8	9.8	K0	1	..	37529i
26	881	50.0	-71 55	9.7	9.7	A0	2	..	39946b	76	2026	50.4	+26 28	8.1	9.1	K0	5	0,2	38642i
27	329	50.1	+78 18	9.1	9.7	G	1	..	37493i	77	2795	50.4	-9 12	8.8	9.9	K2	2	..	19137b
28	1223	50.1	+58 23	9.3	10.1	G5	1	..	38224i	78	7045	50.4	-27 37	8.3	9.4	G5	4	..	15600b
29	2180	50.1	+25 41	8.8	9.3	F8	1	..	38642i	79	6012	50.4	-38 33	8.8	9.8	K0	2	..	40276b
30	2160	50.1	+23 6	9.1	10.1	K0	1	..	38642i	80	5987	50.4	-44 49	5.75	6.0	B5	..	..	56,127
31	2124	50.1	+21 27	9.1	9.2	A2p	3	R	38642i	81	5115	50.4	-49 5	9.6	9.0	F2	2	..	39864b
32	2283	50.1	+19 17	7.9	8.2	F0	5	..	37608i	82	2837	50.4	-54 37	9.5	10.7	K5	1	..	38408b
33	2793	50.1	-9 5	9.5	10.3	G5	1	..	19137b	83	2639	50.4	-55 25	9.8	9.8	A0	3	..	38408b
34	2959	50.1	-9 42	8.7	9.9	K5	2	..	19137b	84	1686	50.4	-58 49	10.2	10.2	A0	1	..	40105b
35	2919	50.1	-16 17	9.2	10.2	K0	3	..	41224b	85	1116	50.4	-64 38	8.9	10.1	K5	1	..	40221b
36	6483	50.1	-34 1	10.2	10.8	A5	2	..	22915b	86	1159	50.4	-67 37	8.8	9.8	K	1	..	40074b
37	6006	50.1	-35 19	8.8	9.4	K0	1	..	13116b	87	872	50.5	+62 56	8.3	9.4	K2	3	2,2	37725i
38	2918	50.1	-52 56	8.3	8.1	F0	7	..	38408b	88	2291	50.5	+18 1	7.7	8.0	F2	4	..	37608i
39	2996	50.1	-53 23	9.4	9.5	A5	3	..	38408b	89	2384	50.5	+1 39	9.2	9.7	F8	2	..	13393b
40	2997	50.1	-53 45	9.6	9.8	A0	2	..	38408b	90	2270	50.5	-0 39	8.1	9.1	K0	5	..	22970b
41	1684	50.1	-58 11	8.4	8.8	F2	6	..	40105b	91	2941	50.5	-21 52	8.4	9.1	K0	3	..	13145b
42	1520	50.1	-59 36	10.1	10.2	A2	2	..	40105b	92	2759	50.5	-23 1	7.92	9.4	K2	3	..	13145b
43	1158	50.1	-67 8	8.4	8.4	A0	4	E	40221b	93	8567	50.5	-24 53	9.5	10.5	Ma	1	..	15600b
44	1127	50.1	-69 19	8.3	9.1	G5	1	..	22988b	94	7596	50.5	-26 4	8.9	9.3	K0	4	..	13145b
45	1224	50.2	+57 54	5.99	6.77	G5	7	..	38638i	95	6259	50.5	-34 22	9.3	9.9	K0	2	..	22915b
46	1824	50.2	+27 19	8.1	9.1	K0	4	0,2	38642i	96	5948	50.5	-39 44	8.2	8.9	K0	2	..	19157b
47	2290	50.2	+18 36	9.0	9.6	G	2	..	37608i	97	5613	50.5	-46 10	6.74	8.2	K0	7	..	39864b
48	2758	50.2	-12 0	7.68	7.96	F0	8	..	18996b	98	4295	50.5	-51 17	9.0	8.9	G5	4	..	38408b
49	2929	50.2	-15 43	6.67	7.23	Go	9	..	41224b	99	2840	50.5	-54 19	9.0	8.9	A2	2	..	38797b
50	3003	50.2	-17 39	9.5	10.1	Go	2	..	41224b	100	2842	50.5	-54 22	7.7	7.8	B8	4	..	38797b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	642	50.6	+66 23	8.6	8.7	A2	3	..	38654i	51	5440	50.9	-41 55	10.4	9.6	Ao	2	..	19157b
2	2289	50.6	+ 8 9	6.72	7.72	Ko	5	..	3761oi	52	2647	50.9	-55 54	9.4	9.5	A2	3	..	40105b
3	2757	50.6	- 4 30	7.22	8.20	K2	9	..	19137b	53	1213	50.9	-63 43	9.4	9.5	A2	3	..	40221b
4	7911	50.6	-29 10	9.9	10.7	Go	1	..	22915b	54	1162	50.9	-67 17	8.8	9.8	K	1	..	40074b
5	5741	50.6	-42 51	7.7	8.6	Ko	6	..	19157b	55	882	50.9	-71 28	6.7	6.7	B8	8	..	22988b
6	5556	50.6	-45 16	8.58	8.5	G5	3	..	39864b	56	371	51.0	+76 29	7.9	9.0	K2	2	..	37714i
7	2923	50.6	-52 34	9.0	9.8	Ko	1	..	38408b	57	1565	51.0	+46 24	8.6	9.2	Go	3	..	38336i
8	2409	50.6	-57 9	8.9	9.3	B9	4	..	40105b	58	2085	51.0	+38 33	9.5	10.3	G5	1	..	38241i
9	1160	50.6	-67 52	9.4	9.4	Ao	2	..	40074b	59	2128	51.0	+11 9	8.5	8.5	Ao	3	..	3761oi
10	1161	50.6	-67 56	8.9	9.7	G5	1	..	40074b	60	2075	51.0	+10 43	8.5	9.3	G5	1	..	3761oi
11	1724	50.7	+47 47	8.7	9.7	Ko	1	..	38336i	61	2798	51.0	- 8 41	9.0	9.3	F2	3	..	19137b
12	1920	50.7	+32 51	6.60	6.94	F2	7	0,8	37529i	62	2950	51.0	-10 47	8.8	9.8	Ko	1	..	18996b
13	2585	50.7	+ 0 21	10.6	11.0	F5	2	..	13393b	63	3029	51.0	-13 1	8.8	9.6	G5	1	..	18996b
14	2962	50.7	- 9 22	9.2	9.7	F8	2	..	19137b	64	2979	51.0	-15 12	9.7	9.7	Ao	2	..	41224b
15	2811	50.7	-18 22	9.7	10.2	F8	2	..	41224b	65	3007	51.0	-17 39	9.1	10.2	K2	1	..	41224b
16	7047	50.7	-28 4	7.7	9.1	Ko	7	..	22915b	66	2814	51.0	-19 12	7.38	7.2	Ao	8	..	13145b
17	6490	50.7	-34 3	9.6	11.3	K2	1	..	22915b	67	7744	51.0	-28 29	9.9	9.6	A3	2	..	15600b
18	6013	50.7	-35 9	8.39	9.3	Ko	1	..	13116b	68	6265	51.0	-34 21	10.0	9.9	Ao	2	..	22915b
19	6016	50.7	-36 52	8.0	8.7	Ao	6	..	13116b	69	5995	51.0	-44 20	8.6	9.0	Fo	4	..	19157b
20	5122	50.7	-48 54	8.9	8.0	B9	6	..	39864b	70	5361	51.0	-47 36	9.2	9.6	Ko	2	..	39864b
21	3006	50.7	-53 10	9.0	9.8	G5	1	..	38408b	71	4796	51.0	-49 10	9.6	9.6	K	1	..	39864b
22	2410	50.7	-57 10	8.9	9.2	Ao	4	..	40105b	72	4635	51.0	-51 4	9.6	9.5	A5	2	..	38408b
23	471	50.7	-78 9	9.5	9.8	F	2	R	21453b	73	3010	51.0	-53 29	9.1	10.1	Ko	2	..	38408b
24	626	50.8	+67 36	9.5	10.7	K5	1	..	38654i	74	2648	51.0	-55 9	9.3	9.3	Ao	3	..	38408b
25	1093	50.8	+62 36	8.1	9.1	Ko	3	E	38654i	75	1690	51.0	-58 54	10.5	10.5	Ao	1	..	40105b
26	2029	50.8	+37 14	8.7	9.7	Ko	1	..	38241i	76	1359	51.0	-61 39	7.4	7.8	A2	3	..	34089b
27	2290	50.8	+ 3 16	8.5	8.5	Ao	8	..	13393b	77	602	51.0	-76 51	9.0	10.1	K2	3	..	21453b
28	2939	50.8	- 5 41	8.6	9.6	Ko	4	..	19137b	78	520	51.1	+71 15	9.0	9.5	F8	2	..	37706i
29	2797	50.8	- 8 22	6.54	6.62	A3	6	..	10987b	79	2184	51.1	+25 32	8.7	9.3	Go	2	..	38642i
30	2921	50.8	-17 0	7.10	8.45	Ma	7	..	41224b	80	2262	51.1	+ 9 24	5.93	6.93	Ko	8	0,7	3761oi
31	2865	50.8	-19 31	8.0	8.2	Ao	6	..	13145b	81	2815	51.1	- 3 21	8.4	8.9	F8	3	..	22970b
32	7739	50.8	-28 48	8.0	9.7	K5	1	..	22915b	82	3033	51.1	- 7 0	7.03	8.03	Ko	7	..	19137b
33	6877	50.8	-32 37	9.4	9.4	A2	3	..	22915b	83	3049	51.1	-20 17	7.68	8.0	Go	6	..	13145b
34	5743	50.8	-43 5	8.3	8.7	K2	4	..	19157b	84	6157	51.1	-37 31	9.4	9.9	A	2	..	39922b
35	5557	50.8	-45 18	8.3	8.5	Ao	5	..	39864b	85	6018	51.1	-38 17	8.5	8.6	B3	3	..	13116b
36	4791	50.8	-49 47	9.2	9.3	K2	1	..	39864b	86	6019	51.1	-38 27	9.3	10.1	K5	1	..	40276b
37	2926	50.8	-52 31	8.7	9.0	Ao	5	..	38408b	87	4801	51.1	-49 46	5.89	6.3	Ao	..	0,9	56,127
38	3008	50.8	-53 45	8.5	10.4	K5	2	..	38408b	88	1117	51.1	-64 38	9.8	9.8	A	1	..	40221b
39	2846	50.8	-54 37	9.5	9.5	Ao	3	..	38408b	89	949	51.1	-70 59	7.4	8.5	K2	4	..	22988b
40	1523	50.8	-59 18	8.8	10.5	Ko	1	..	40105b	90	1822	51.2	+28 34	8.1	8.6	F8	5	0,4	37529i
41	1524	50.8	-59 23	9.9	9.9	B9	1	..	40105b	91	2136	51.2	+15 13	7.54	8.32	G5	4	0,3	37608i
42	1222	50.9	+60 45	8.8	9.3	F8	3	..	38224i	92	2265	51.2	+ 4 15	9.2	10.3	K2	2	..	13393b
43	2161	50.9	+23 36	8.9	9.7	G5	2	..	38642i	93	2926	51.2	- 7 17	9.7	9.8	A2	1	..	19137b
44	2264	50.9	+ 3 56	9.6	10.1	F8	2	..	13393b	94	2951	51.2	-11 0	9.0	9.8	G5	1	..	18996b
45	2291	50.9	+ 3 24	9.9	10.4	F8	2	..	13393b	95	2980	51.2	-15 5	8.86	9.42	Go	3	..	41224b
46	2587	50.9	+ 0 26	8.9	9.0	A5	5	..	13393b	96	3051	51.2	-21 1	8.8	10.3	G5	2	..	13145b
47	8579	50.9	-25 3	9.60	9.3	Ao	3	..	13145b	97	2945	51.2	-21 22	9.2	10.3	Ko	2	2,2	13145b
48	6879	50.9	-32 53	7.51	8.1	G5	5	5,4	22915b	98	7747	51.2	-28 25	9.7	9.6	Go	1	..	15600b
49	6493	50.9	-33 13	7.51	8.2	G5	6	5,7	22915b	99	5562	51.2	-45 16	7.68	8.5	B9	6	..	39864b
50	5610	50.9	-40 18	8.4	8.6	F5	4	..	19157b	100	1525	51.2	-59 22	10.8	10.8	Ao	1	..	40105b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1118	51.2	-64 32	8.4	9.5	K2	4	..	40221b	51	8593	51.6	-24 36	8.0	8.7	K2	5	..	13145b
2	877	51.2	-73 0	9.2	10.3	K2	1	..	39946b	52	7539	51.6	-26 27	8.3	8.7	A2	6	..	13145b
3	1975	51.3	+43 39	8.7	9.7	Ko	1	..	38291i	53	7541	51.6	-26 35	9.4	10.2	Ao	5	..	13145b
4	1922	51.3	+33 27	8.3	9.3	Ko	1	..	38241i	54	7057	51.6	-28 2	8.9	9.6	A3	3	E	22915b
5	2185	51.3	+25 26	8.6	9.6	Ko	1	..	38642i	55	8035	51.6	-31 0	10.9	10.2	A2	1	..	22915b
6	2932	51.3	-16 0	9.2	9.3	A2	4	..	41224b	56	6507	51.6	-34 0	8.7	9.3	F5	2	..	13116b
7	2870	51.3	-19 29	8.8	10.0	Ma	3	..	13145b	57	6027	51.6	-36 41	8.5	9.3	G5	2	..	13116b
8	2764	51.3	-22 24	9.1	10.4	K5	1	..	13145b	58	3024	51.6	-53 55	8.9	9.5	Ko	2	..	38408b
9	6505	51.3	-34 6	9.4	10.8	Ko	1	..	22915b	59	2660	51.6	-55 9	9.8	9.8	Ao	2	..	38408b
10	5961	51.3	-39 58	7.74	8.1	Ao	7	..	19157b	60	2644	51.6	-56 37	8.3	10.1	K5	2	..	40105b
11	5616	51.3	-41 7	var.	var.	Nb	2	R	40276b	61	2420	51.6	-57 15	8.3	8.3	Oc	4	..	40105b
12	4640	51.3	-50 21	9.0	8.7	Ao	4	..	39864b	62	1697	51.6	-58 48	9.1	9.0	B5	4	..	40105b
13	4639	51.3	-50 31	8.8	8.9	K2	2	..	39864b	63	1698	51.6	-59 1	9.6	10.8	K5	1	..	40105b
14	2933	51.3	-52 10	8.6	9.2	A5	3	..	38408b	64	1120	51.6	-66 51	8.3	8.7	F5	4	..	40221b
15	2861	51.3	-54 53	9.0	10.7	K2	1	..	38408b	65	1436	51.7	+52 3	8.1	8.7	Go	5	..	38638i
16	2634	51.3	-56 8	9.8	9.8	B9	2	O,I	40105b	66	1566	51.7	+45 53	6.50	7.50	Ko	6	..	38336i
17	2635	51.3	-56 42	9.0	9.3	B3	3	..	40105b	67	1977	51.7	+29 38	8.21	8.35	A5	4	R	37529i
18	2418	51.3	-57 57	6.72	6.8	B5	7	..	34089b	68	2186	51.7	+25 16	8.1	9.1	Ko	3	..	38642i
19	1693	51.3	-58 8	8.8	8.8	B8	2	..	40105b	69	2325	51.7	- 1 25	9.0	9.1	A3	3	..	22970b
20	417	51.4	+74 39	8.82	9.60	G5	2	..	37714i	70	2324	51.7	- 1 49	8.3	8.4	A2	6	..	22970b
21	1823	51.4	+28 2	8.9	9.9	Ko	1	..	37529i	71	2802	51.7	- 8 22	8.5	9.3	G5	4	..	19137b
22	2128	51.4	+21 15	8.8	9.3	F8	4	..	37608i	72	2803	51.7	- 8 46	8.6	9.6	Ko	4	..	19137b
23	2817	51.4	- 3 22	8.5	8.9	F5	5	..	22970b	73	3031	51.7	-13 0	7.03	8.10	K2	8	..	18996b
24	6883	51.4	-32 7	8.7	10.0	K5	2	..	22915b	74	8596	51.7	-24 50	9.7	10.4	Ko	2	..	15600b
25	2862	51.4	-54 40	8.5	8.3	Ao	3	..	38797b	75	8037	51.7	-30 50	9.4	9.9	Ko	1	..	22915b
26	1694	51.4	-58 47	9.1	10.1	F2	1	..	40105b	76	6030	51.7	-38 26	9.8	10.1	Ko	1	..	40276b
27	663	51.4	-73 36	8.2	9.3	K2	2	..	21453b	77	5759	51.7	-42 31	9.1	9.5	G5	1	..	19157b
28	648	51.4	-74 25	9.5	10.5	Ko	1	..	21453b	78	5758	51.7	-42 54	9.2	8.9	A2	5	..	19157b
29	1274	51.5	+59 26	6.82	7.89	K2	6	..	38224i	79	6005	51.7	-44 22	8.6	9.3	Ko	2	..	19157b
30	2084	51.5	+35 37	8.6	8.7	A2	2	..	38241i	80	2422	51.7	-57 51	9.3	10.3	Ko	1	..	40105b
31	1975	51.5	+29 2	7.42	8.42	Ko	4	O,3	37529i	81	1700	51.7	-58 13	9.0	9.4	Fo	2	..	40105b
32	2156	51.5	+24 29	8.7	9.5	G5	4	..	38642i	82	1699	51.7	-58 35	8.7	8.7	Fo	5	..	40105b
33	2399	51.5	+20 14	7.70	8.26	Go	5	..	37608i	83	1356	51.7	-62 59	8.9	8.9	B9	5	..	40221b
34	2266	51.5	+ 4 31	8.1	9.1	Ko	4	..	13393b	84	1120	51.7	-64 50	8.6	9.8	K5	1	..	40221b
35	2588	51.5	+ 0 0	8.3	9.5	K5	6	..	13393b	85	626	51.7	-76 7	9.6	9.6	Ao	2	..	21453b
36	2801	51.5	- 8 45	9.5	10.0	F8	1	..	19137b	86	644	51.8	+65 48	8.6	9.1	F8	4	E	37517i
37	2871	51.5	-19 15	8.0	9.2	Ko	4	..	13145b	87	1223	51.8	+60 34	9.5	10.3	G5	1	..	38224i
38	8590	51.5	-24 8	9.9	9.7	F5	1	3,I	15600b	88	2284	51.8	+19 46	8.00	9.00	Ko	4	O,3	37608i
39	6025	51.5	-36 25	8.7	9.6	Ko	1	..	13116b	89	2966	51.8	- 9 53	8.5	9.5	Ko	3	..	19137b
40	1695	51.5	-58 16	9.1	9.9	Ko	2	..	40105b	90	2936	51.8	-15 25	9.7	10.9	K5	1	..	41224b
41	1119	51.5	-64 12	9.8	9.8	Ao	2	..	40221b	91	3013	51.8	-17 45	9.5	10.0	F8	1	..	41224b
42	155	51.5	-87 31	9.2	10.3	K2	2	..	22578b	92	7613	51.8	-25 37	9.7	9.7	A5	1	..	13145b
43	1227	51.6	+58 28	9.6	9.9	F2	1	..	38224i	93	8043	51.8	-30 37	7.06	7.3	Ao	8	..	22915b
44	1822	51.6	+48 42	7.8	8.6	G5	4	..	38336i	94	6511	51.8	-33 45	9.4	10.2	Ao	2	..	22915b
45	1726	51.6	+47 26	8.3	8.8	F8	2	..	38336i	95	6032	51.8	-39 5	6.95	8.1	Ko	7	O,8	19157b
46	2033	51.6	+41 32	5.19	5.61	F5	10	..	38241i	96	5456	51.8	-41 47	9.1	9.2	Ao	3	..	19157b
47	2269	51.6	+ 4 43	6.80	7.22	F5	10	..	13393b	97	5760	51.8	-42 43	8.3	8.0	A3	8	..	19157b
48	2268	51.6	+ 4 26	8.5	9.6	K2	3	..	13393b	98	5370	51.8	-47 54	10.5	10.1	A2	1	..	39864b
49	2293	51.6	+ 3 23	9.6	10.2	Go	2	..	13393b	99	2646	51.8	-56 54	6.82	6.5	B9	7	..	34089b
50	2268	51.6	+ 1 49	10.2	10.8	G	1	..	13393b	100	2426	51.8	-57 27	9.8	11.2	Ma	1	..	40105b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2424	51.8	-58 0	8.9	8.9	A2	5	..	40105b	51	2431	52.1	-57 31	9.8	9.8	B9	2	..	40105b
2	2086	51.9	+35 35	7.43	8.61	K5	3	..	38241i	52	1702	52.1	-59 3	10.3	10.6	Fo	1	..	40105b
3	2270	51.9	+ 3 49	8.3	8.8	F8	6	..	13393b	53	1530	52.1	-59 44	10.1	10.1	Ao	2	..	40105b
4	2269	51.9	+ 2 14	9.6	10.1	F8	1	..	13393b	54	1358	52.1	-62 47	8.7	8.7	B9	5	..	40221b
5	2045	51.9	- 5 19	8.40	8.82	F5	7	..	19137b	55	1165	52.1	-67 15	8.4	9.2	G5	3	..	40074b
6	2023	51.9	-16 59	8.7	9.8	K2	2	..	41224b	56	1129	52.1	-69 9	8.1	9.5	Ma	2	..	40074b
7	3052	51.9	-20 47	8.2	9.5	K2	2	..	13145b	57	419	52.2	+74 42	9.22	9.28	A2	2	..	37714i
8	7614	51.9	-25 19	9.2	9.6	Fo	2	..	13145b	58	522	52.2	+71 13	8.9	9.3	F5	2	..	37714i
9	7790	51.9	-31 14	9.7	10.0	K5	1	..	22915b	59	1438	52.2	+52 33	8.1	8.2	A2	6	..	38638i
10	7792	51.9	-31 37	9.7	10.0	Go	1	..	22915b	60	2189	52.2	+25 5	8.5	9.5	Ko	1	..	38642i
11	5626	51.9	-40 21	6.34	8.3	Ma	6	..	19157b	61	2407	52.2	+20 39	8.6	9.1	F8	4	..	37571i
12	3032	51.9	-53 34	9.5	9.5	Ao	2	..	38408b	62	2271	52.2	+ 2 35	8.4	8.5	A5	5	..	13393b
13	2873	51.9	-55 2	9.53	9.5	A3	3	..	38408b	63	2819	52.2	- 3 45	8.7	9.5	G5	3	..	22970b
14	1528	51.9	-59 21	9.1	8.7	B5	3	..	40105b	64	2938	52.2	-15 25	8.0	8.5	F8	8	..	41224b
15	1529	51.9	-60 10	7.84	8.7	Ko	5	..	40221b	65	3015	52.2	-18 11	9.2	10.2	Ko	1	..	41224b
16	1128	51.9	-69 25	6.99	7.1	B8	8	..	22988b	66	7622	52.2	-26 4	6.23	6.6	A2	6	..	7734b
17	1275	52.0	+59 14	8.1	9.1	Ko	2	..	38224i	67	6895	52.2	-32 57	5.86	7.3	Ko	..	O, R	56,127
18	1356	52.0	+55 33	9.3	10.3	Ko	1	..	38638i	68	2658	52.2	-56 28	8.4	9.5	Ko	3	..	40105b
19	2069	52.0	+42 4	8.1	9.1	Ko	1	..	38291i	69	2434	52.2	-57 29	8.9	9.8	Ko	2	..	40105b
20	2295	52.0	+ 2 56	10.2	10.8	Go	2	..	13393b	70	1703	52.2	-58 17	9.4	9.4	B8	5	..	40105b
21	2270	52.0	+ 2 17	9.2	10.0	G5	2	..	13393b	71	1531	52.2	-59 40	10.5	10.5	Ao	1	..	40105b
22	2272	52.0	- 0 53	8.9	9.3	F5	4	..	22970b	72	1360	52.2	-63 4	9.5	9.5	A	2	..	40221b
23	2765	52.0	-12 13	8.5	9.0	F8	5	..	18996b	73	1239	52.3	+57 24	8.8	8.9	A5	3	..	38638i
24	2988	52.0	-13 55	8.4	9.6	K5	1	..	18996b	74	1702	52.3	+50 37	6.59	6.59	Ao	..	O, R	56,87
25	3053	52.0	-20 23	9.23	10.0	Ko	3	5,2	41224b	75	2034	52.3	+41 13	7.8	8.8	Ko	3	..	38241i
26	8866	52.0	-23 37	7.9	8.2	Go	6	..	13145b	76	2286	52.3	+18 52	10.6	11.2	G	2	..	37608i
27	7933	52.0	-29 53	8.7	9.4	F5	3	..	22915b	77	2259	52.3	+ 5 35	8.4	8.7	Fo	6	..	13393b
28	8046	52.0	-30 24	9.4	9.6	Ko	2	..	22915b	78	..	52.3	+ 2 28	..	..	A2	2	..	13393b
29	7795	52.0	-31 46	8.1	9.9	Ma	3	..	22915b	79	2590	52.3	+ 0 21	8.1	9.2	K2	5	..	13393b
30	6171	52.0	-38 2	7.73	9.1	K5	2	..	13116b	80	2764	52.3	- 4 42	8.6	9.0	F5	7	..	19137b
31	5753	52.0	-43 9	9.1	9.0	A3	4	..	19157b	81	3040	52.3	- 6 54	9.1	10.3	K5	1	..	19137b
32	4810	52.0	-49 13	10.0	9.3	F2	1	..	39864b	82	2924	52.3	-17 9	8.7	9.9	K5	2	..	41224b
33	4321	52.0	-51 50	8.3	8.1	A3	5	..	38797b	83	7767	52.3	-28 47	7.6	8.1	Ao	8	..	22915b
34	3035	52.0	-53 51	10.0	10.1	A2	2	..	38408b	84	6523	52.3	-33 16	8.8	9.3	Ko	4	..	22915b
35	2666	52.0	-55 49	8.4	8.0	Ao	5	..	38797b	85	5145	52.3	-48 35	9.4	9.2	F8	3	..	39864b
36	1276	52.1	+59 39	8.11	8.39	Fo	3	..	38224i	86	4325	52.3	-51 49	8.9	8.9	Ao	4	..	38797b
37	2295	52.1	+39 25	8.2	8.6	F5	5	..	38241i	87	4327	52.3	-52 6	10.5	9.6	Fo	1	..	38408b
38	2156	52.1	+16 56	7.38	8.38	Ko	5	O,4	37608i	88	2955	52.3	-52 30	7.9	8.0	B5	5	..	38797b
39	2385	52.1	+ 1 42	8.5	9.5	Ko	4	..	13393b	89	1707	52.3	-58 16	7.61	7.9	Ao	3	I,9	34089b
40	2949	52.1	- 5 59	9.5	10.0	F8	1	..	19137b	90	1532	52.3	-59 28	9.7	9.7	Ao	3	..	40105b
41	2807	52.1	- 8 54	8.5	8.6	A2	5	..	19137b	91	1122	52.3	-66 42	9.5	9.5	A	1	E	40221b
42	2805	52.1	- 9 7	7.8	8.6	G5	6	..	19137b	92	1001	52.3	-68 33	8.9	10.0	K2	1	..	40074b
43	3014	52.1	-17 46	9.5	9.8	F2	1	..	41224b	93	1560	52.4	+51 8	9.3	10.3	Ko	1	..	38638i
44	2770	52.1	-23 13	8.6	9.4	A2	4	..	13145b	94	1923	52.4	+33 30	8.7	9.5	G5	1	..	38673i
45	8603	52.1	-24 51	8.7	8.5	F8	4	..	13145b	95	2157	52.4	+24 16	9.5	10.3	G5	1	..	38642i
46	7936	52.1	-29 28	8.2	9.4	Ko	2	..	22915b	96	2272	52.4	+ 2 7	8.5	9.5	Ko	2	..	13393b
47	7937	52.1	-29 39	7.9	9.9	Ko	2	..	22915b	97	2820	52.4	- 3 27	9.2	9.5	F2	4	..	22970b
48	8049	52.1	-30 58	9.4	8.7	B3	3	..	22915b	98	2067	52.4	- 9 25	8.8	9.6	G5	3	..	19137b
49	5628	52.1	-40 18	9.4	9.6	Ko	1	..	19157b	99	2939	52.4	-15 25	9.2	10.2	Ko	2	..	41224b
50	2656	52.1	-56 57	8.5	9.8	Ko	2	..	40105b	100	2926	52.4	-16 17	8.6	8.9	F2	5	..	41224b

THE HENRY DRAPER CATALOGUE.

86300

9^h 52^m.4

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	7551	52.4	-27 0	6.32	7.1	A2	5	..	7734b	51	5149	52.7	-48 21	9.4	9.0	Fo	4	..	39864b
2	7069	52.4	-28 3	7.7	9.0	A3	5	..	22915b	52	4662	52.7	-50 52	6.47	7.0	B3	..	0,8	56,127
3	6018	52.4	-44 47	7.84	8.4	Ko	5	..	19157b	53	3052	52.7	-53 9	6.84	6.8	B8	8	..	38797b
4	5378	52.4	-47 14	9.2	9.3	G5	1	..	39864b	54	2669	52.7	-56 37	9.2	9.8	Go	1	..	40105b
5	5376	52.4	-47 35	9.4	8.8	A2	3	..	39864b	55	2668	52.7	-57 3	8.9	10.4	Ma	2	..	40105b
6	5377	52.4	-47 42	10.0	9.3	Ao	2	..	39864b	56	477	52.7	-78 33	9.5	10.3	G5	1	..	21453b
7	1533	52.4	-59 49	9.7	9.7	B9	2	..	40105b	57	1938	52.8	+43 56	8.1	8.9	G5	3	..	38291i
8	1121	52.4	-64 36	8.3	9.5	K5	3	..	40221b	58	1824	52.8	+28 15	6.42	6.70	Fo	6	..	38203i
9	1375	52.5	+53 45	8.5	9.0	F8	4	..	38638i	59	2141	52.8	+15 42	7.6	8.4	G5	4	0,5	37571i
10	1439	52.5	+52 21	9.0	9.4	F5	2	..	38638i	60	2183	52.8	+12 55	5.18	5.18	Ao	..	2,R	56,87
11	2075	52.5	+31 0	8.1	9.1	Ko	2	..	37529i	61	2272	52.8	+ 4 15	10.6	11.1	F8	1	..	13393b
12	2163	52.5	+23 9	7.86	7.92	A2	5	..	37571i	62	7561	52.8	-26 50	8.3	8.7	F8	6	E	13145b
13	2133	52.5	+21 27	8.7	9.1	F5	5	..	37571i	63	7775	52.8	-28 34	9.5	9.9	K2	1	..	15600b
14	2271	52.5	+ 4 44	9.31	9.73	F5	3	..	13393b	64	6906	52.8	-32 58	10.0	10.0	A2	2	..	22915b
15	3041	52.5	- 7 3	9.7	10.9	K5	1	..	19137b	65	2681	52.8	-55 26	8.5	8.6	A3	3	..	38797b
16	2931	52.5	- 7 42	8.7	9.8	K2	3	..	19137b	66	2682	52.8	-55 56	10.1	10.1	Ao	1	..	40105b
17	5588	52.5	-45 55	8.3	9.0	Ko	3	..	39864b	67	2673	52.8	-57 1	9.0	9.0	F8	4	..	40105b
18	3045	52.5	-53 35	8.1	9.0	K2	3	..	38797b	68	2147	52.9	+22 46	8.3	9.1	G5	4	..	37571i
19	1709	52.5	-58 38	7.10	7.7	B8	5	..	34089b	69	2269	52.9	+ 8 48	6.27	7.27	Ko	6	0,7	37610i
20	457	52.5	-79 35	6.54	6.7	Ao	9	..	13465b	70	2957	52.9	-10 21	9.11	9.11	Ao	3	..	18996b
21	225	52.6	+84 24	6.48	7.48	Ko	5	5,5	37546i	71	2942	52.9	-16 3	6.66	6.94	Fo	9	..	41224b
22	399	52.6	+75 14	7.09	7.87	G5	8	..	37714i	72	7564	52.9	-26 8	9.2	9.1	Go	4	..	15600b
23	1979	52.6	+29 4	8.8	9.8	Ko	1	..	37529i	73	7565	52.9	-26 10	9.9	9.7	F8	1	..	15600b
24	2992	52.6	-13 52	9.2	9.6	F5	2	..	18996b	74	7563	52.9	-26 23	9.2	9.7	F8	1	..	15600b
25	2984	52.6	-15 6	9.56	9.56	A	2	..	41224b	75	7562	52.9	-26 43	8.1	8.7	F2	6	E	13145b
26	2928	52.6	-16 58	9.7	10.3	Go	2	..	41224b	76	6909	52.9	-32 23	7.08	7.6	A2	8	0,9	13116b
27	2927	52.6	-17 6	9.9	10.0	A5	1	..	41224b	77	6292	52.9	-34 36	8.4	8.1	A2	4	..	13116b
28	2951	52.6	-21 43	9.7	10.3	F8	1	..	13145b	78	1242	53.0	+57 18	5.71	6.89	K5	7	..	38638i
29	6035	52.6	-37 2	8.7	9.1	A2	3	..	13116b	79	2953	53.0	- 5 59	9.2	10.3	K2	1	..	19137b
30	5631	52.6	-40 29	9.6	8.9	Ao	3	..	19157b	80	2987	53.0	-15 3	9.1	9.4	Fo	3	..	41224b
31	5645	52.6	-46 35	8.3	8.7	A2	6	..	39864b	81	2775	53.0	-22 26	9.7	10.3	G5	2	..	13145b
32	5381	52.6	-47 17	7.1	7.8	G5	6	..	39864b	82	8060	53.0	-30 41	9.7	8.5	Ao	4	..	22915b
33	5150	52.6	-48 49	10.5	9.6	A	1	..	39864b	83	6049	53.0	-38 29	10.9	10.1	A	1	..	40276b
34	3050	52.6	-53 57	10.3	10.3	Ao	1	..	38408b	84	5387	53.0	-47 12	7.5	8.2	Ko	4	..	39864b
35	1240	52.7	+56 56	7.34	8.34	Ko	3	..	38638i	85	4334	53.0	-51 21	8.2	8.0	Ao	7	..	38797b
36	1357	52.7	+55 17	9.0	9.4	F5	2	..	38638i	86	2967	53.0	-52 33	8.9	9.6	Ko	2	..	38408b
37	1561	52.7	+51 28	8.7	9.3	Go	3	..	38638i	87	2902	53.0	-54 51	10.3	10.3	Ao	1	..	38408b
38	1940	52.7	+30 1	8.2	9.2	Ko	2	0,1	37529i	88	1002	53.0	-68 43	6.82	6.9	B9	9	..	22988b
39	1980	52.7	+28 58	9.1	10.2	K2	1	..	37529i	89	561	53.0	-77 11	8.9	10.0	K2	2	..	21453b
40	2081	52.7	+10 10	8.5	8.9	F5	2	..	37610i	90	481	53.1	+72 54	8.3	8.7	F5	3	..	37714i
41	2329	52.7	- 1 28	6.72	7.50	G5	9	..	22970b	91	3059	53.1	-20 42	7.82	8.6	G5	4	..	13145b
42	2330	52.7	- 1 29	8.7	9.7	Ko	3	..	22970b	92	7566	53.1	-26 53	9.9	9.6	F8	3	..	15600b
43	2968	52.7	- 9 16	9.1	10.2	K2	3	..	19137b	93	7954	53.1	-29 13	9.2	10.7	K2	1	..	15600b
44	7774	52.7	-28 33	10.4	9.6	F8	2	..	15600b	94	7953	53.1	-29 58	9.4	10.8	Ko	1	..	22915b
45	6903	52.7	-32 42	9.4	9.4	F8	5	..	22915b	95	8062	53.1	-30 58	9.7	10.0	Ko	1	..	22915b
46	6527	52.7	-33 16	10.0	10.5	A2	3	..	22915b	96	6296	53.1	-34 13	9.3	9.4	Ao	4	..	22915b
47	6289	52.7	-34 21	7.45	8.4	F5	6	..	13116b	97	6295	53.1	-35 3	9.59	9.7	Ko	2	..	22915b
48	6031	52.7	-35 13	9.29	9.4	G5	4	..	22915b	98	6052	53.1	-38 34	10.0	9.8	Ao	3	..	40276b
49	5775	52.7	-42 7	9.1	9.6	G5	2	..	19157b	99	6053	53.1	-38 49	10.7	10.1	Ao	1	..	40276b
50	5385	52.7	-47 56	7.9	9.6	K5	2	..	39864b	100	6028	53.1	-44 54	9.6	9.9	Ao	2	..	19157b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5158	53.1	-48 36	9.8	9.6	Ko	1	..	39864b	51	6039	53.5	-35 11	9.49	9.7	Ko	2	..	22915b
2	2970	53.1	-52 50	9.0	9.5	F8	2	..	38408b	52	5394	53.5	-47 36	10.2	9.6	Fo	1	..	39864b
3	3068	53.1	-53 57	8.2	7.7	B9	7	..	38797b	53	5168	53.5	-49 5	7.2	8.1	Go	6	..	39864b
4	1003	53.1	-68 20	7.7	8.3	Go	5	..	40074b	54	1714	53.5	-58 20	9.04	8.8	Fo	4	..	40105b
5	649	53.1	-74 54	7.8	7.8	B9	8	..	21453b	55	564	53.5	-77 48	9.5	10.5	K	1	..	21453b
6	1982	53.2	+29 38	10.2	11.2	Ko	2	..	37529i	56	322	53.6	+81 10	10.3	10.8	F8	1	..	37465i
7	2297	53.2	+ 2 50	9.0	10.0	Ko	2	..	13393b	57	323	53.6	+81 10	10.3	10.8	F8	1	R	37465i
8	2593	53.2	+ 0 3	9.4	9.5	A5	3	..	13393b	58	550	53.6	+69 12	7.8	8.1	Fo	7	..	37706i
9	6917	53.2	-32 51	10.0	10.2	Ko	1	..	22915b	59	2037	53.6	+41 11	8.9	8.9	A	1	..	38241i
10	5661	53.2	-46 12	7.9	9.3	K5	2	..	39864b	60	1826	53.6	+27 59	8.0	8.6	Go	3	..	38203i
11	1366	53.2	-62 38	9.2	9.3	A2	3	..	40221b	61	3019	53.6	-17 35	9.5	10.7	K5	1	R	41224b
12	1365	53.2	-63 6	9.5	9.5	Ao	2	..	40221b	62	8883	53.6	-23 22	9.1	10.3	Ko	1	..	13145b
13	563	53.2	-77 20	10.0	10.0	A	1	..	21453b	63	8622	53.6	-24 39	6.66	7.7	A2	5	2,10	7734b
14	1825	53.3	+48 25	8.1	8.5	F5	3	..	38291i	64	7640	53.6	-25 13	10.2	10.4	Ao	1	..	15600b
15	2035	53.3	+41 4	8.7	9.7	Ko	1	..	38241i	65	7961	53.6	-29 8	8.5	9.4	Ko	2	..	22915b
16	2090	53.3	+38 15	9.2	9.6	F5	1	..	38241i	66	2980	53.6	-52 10	6.15	7.0	B3	10	..	38797b
17	2078	53.3	+30 53	8.1	9.1	Ko	3	..	37529i	67	2915	53.6	-54 43	9.3	10.3	Ko	2	..	38408b
18	2190	53.3	+24 53	9.01	9.07	A2	3	..	38642i	68	2706	53.6	-55 51	9.4	9.7	Fo	2	..	40105b
19	2134	53.3	+11 26	7.34	7.68	F2	6	..	37610i	69	2454	53.6	-58 2	9.7	9.7	Ao	6	..	40105b
20	2954	53.3	- 6 8	9.2	10.2	Ko	1	..	19137b	70	1715	53.6	-58 28	8.9	10.5	K5	1	..	40105b
21	3039	53.3	-12 39	7.48	8.66	K5	6	..	18996b	71	1128	53.6	-64 10	9.1	9.5	F5	3	..	40221b
22	7780	53.3	-28 34	9.7	9.3	F5	3	..	22915b	72	885	53.6	-72 5	9.0	9.1	A5	2	..	22988b
23	7956	53.3	-29 59	10.2	10.5	F8	1	..	22915b	73	1094	53.7	+62 5	8.5	9.5	Ko	3	E	37725i
24	5479	53.3	-41 58	10.0	8.9	B8	4	..	19157b	74	2030	53.7	+25 58	8.9	9.9	Ko	1	..	38642i
25	5786	53.3	-42 50	9.4	9.2	F8	3	..	19157b	75	2139	53.7	+20 53	9.5	10.0	F8	2	..	37571i
26	5162	53.3	-48 42	9.8	9.2	F2	2	..	39864b	76	2263	53.7	+ 5 16	7.31	8.66	Ma	6	..	13393b
27	2909	53.3	-54 36	7.9	7.6	A3	6	..	38797b	77	2386	53.7	+ 0 49	8.84	9.84	Ko	4	..	13393b
28	2447	53.3	-57 37	10.3	10.3	B9	3	..	40105b	78	2824	53.7	- 3 42	8.2	9.3	K2	4	..	22970b
29	1713	53.3	-58 27	9.1	9.0	Ao	3	..	40105b	79	2934	53.7	- 7 47	8.6	9.1	F8	4	..	19137b
30	1536	53.3	-59 17	9.2	9.3	A2	3	..	40105b	80	3041	53.7	-12 49	9.2	10.2	K	1	..	18996b
31	950	53.3	-70 28	8.5	8.8	Fo	2	..	40074b	81	2996	53.7	-13 28	7.45	8.63	K5	5	..	18996b
32	665	53.3	-73 24	9.2	9.3	A2	4	..	21453b	82	2877	53.7	-19 49	9.2	10.0	F8	3	0,2-	41224b
33	645	53.4	+66 34	9.1	9.9	G5	1	..	38654i	83	3061	53.7	-21 5	9.2	9.7	Ko	1	0,1	13145b
34	1959	53.4	+32 16	9.5	9.8	Fo	2	..	37529i	84	7787	53.7	-28 40	9.5	10.4	K2	1	..	15600b
35	2136	53.4	+10 56	7.34	8.34	Ko	3	..	37610i	85	6302	53.7	-34 50	9.3	9.9	K2	2	..	22915b
36	2298	53.4	+ 2 59	9.9	11.1	K5	1	..	13393b	86	6186	53.7	-37 41	9.4	9.1	A2	3	..	40276b
37	7784	53.4	-28 16	8.9	9.6	K2	3	0,2	15600b	87	6058	53.7	-39 6	8.7	9.8	K5	2	..	40276b
38	5606	53.4	-45 9	8.68	8.4	B3	5	..	19157b	88	5779	53.7	-43 13	9.1	9.0	F5	3	..	19157b
39	4831	53.4	-49 24	7.5	7.6	B8	8	..	39864b	89	3083	53.7	-53 33	10.6	10.6	Ao	1	..	38408b
40	3075	53.4	-54 6	3.70	3.58	B5	..	R	28,204	90	2704	53.7	-55 34	8.4	8.6	B8	4	..	40105b
41	2451	53.4	-57 11	7.4	8.0	B9	5	R	34089b	91	2457	53.7	-57 16	10.6	10.6	Ao	1	..	40105b
42	2450	53.4	-57 30	10.1	10.7	G	1	..	40105b	92	566	53.7	-77 9	8.8	9.8	Ko	1	..	21453b
43	951	53.4	-70 25	10.0	10.0	A	1	..	40074b	93	565	53.7	-77 23	9.8	9.8	Ao	2	..	21453b
44	2237	53.5	+ 6 35	7.9	8.9	Ko	7	..	9463b	94	1563	53.8	+51 43	8.5	9.7	K5	2	..	38638i
45	3022	53.5	- 3 10	8.4	9.2	G5	2	..	22970b	95	2164	53.8	+23 45	8.3	9.3	Ko	3	..	37608i
46	3045	53.5	- 6 43	8.8	9.8	Ko	3	..	19137b	96	2274	53.8	+ 4 16	9.9	10.4	F8	2	..	13393b
47	2931	53.5	-16 30	9.5	10.5	Ko	1	..	41224b	97	2300	53.8	+ 2 53	8.9	9.4	F8	4	..	13393b
48	7814	53.5	-31 19	8.7	9.0	F5	3	..	22915b	98	2387	53.8	+ 1 29	9.2	9.7	F8	3	..	13393b
49	6921	53.5	-32 47	9.3	8.7	A5	4	..	22915b	99	2388	53.8	+ 0 58	8.9	9.7	G5	4	..	13393b
50	6539	53.5	-33 44	8.5	9.0	Ao	2	..	13116b	100	2961	53.8	-10 36	8.4	8.7	Fo	3	..	18996b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2780	53.8	-22 40	9.5	9.7	A	1	..	13145b	51	6046	54.1	-35 34	8.7	9.1	G5	2	..	13116b
2	7789	53.8	-28 27	9.2	9.3	F8	3	..	22915b	52	5653	54.1	-40 17	9.4	10.5	Mc	2	..	40276b
3	5998	53.8	-40 6	9.6	9.5	F5	2	..	40276b	53	5490	54.1	-41 43	8.0	9.2	K2	3	..	19157b
4	5667	53.8	-47 5	9.8	9.0	Ao	4	..	39864b	54	2712	54.1	-55 15	9.78	10.0	A2	3	..	38408b
5	5170	53.8	-48 54	10.0	9.2	Fo	2	..	39864b	55	1545	54.1	-59 25	9.5	9.5	B9	4	..	40105b
6	2989	53.8	-52 57	9.1	9.3	A2	4	0,2	38408b	56	1540	54.1	-60 50	9.3	9.3	Ao	3	..	40221b
7	3091	53.8	-53 23	10.3	10.3	Ao	2	..	38408b	57	1370	54.1	-62 55	7.6	7.6	B9p	5	1,4 R	13761b
8	1538	53.8	-59 11	9.9	10.2	Fo	1	..	40105b	58	1008	54.1	-68 14	8.8	8.8	Ao	4	..	40074b
9	1243	53.9	+57 27	9.1	9.5	F5	1	..	38638i	59	524	54.2	+71 15	8.1	8.9	G5	4	..	37706i
10	1564	53.9	+51 5	8.8	9.9	K2	1	..	38638i	60	1378	54.2	+53 36	7.55	8.05	F8	7	..	38638i
11	1980	53.9	+42 48	7.54	8.61	K2	4	..	38291i	61	1941	54.2	+44 29	8.9	9.0	A3	1	..	38291i
12	1961	53.9	+31 57	8.5	9.5	Ko	3	..	37529i	62	2275	54.2	+8 54	9.2	10.0	G5	1	..	13402b
13	1946	53.9	+30 8	5.86	6.86	Ko	7	..	38203i	63	2301	54.2	+3 26	9.2	9.2	Ao	6	..	13393b
14	1983	53.9	+29 26	9.1	9.2	A2	2	..	37529i	64	7791	54.2	-28 49	7.30	7.7	Ko	8	..	22915b
15	2165	53.9	+23 9	9.5	10.5	Ko	1	..	38642i	65	6192	54.2	-37 42	9.0	9.7	K5	2	..	39922b
16	2148	53.9	+21 49	6.61	6.67	A2	8	..	37571i	66	6006	54.2	-39 42	9.6	8.9	Ao	4	1,4	19157b
17	2296	53.9	+7 54	8.7	8.8	A3	4	..	9463b	67	6009	54.2	-39 51	9.4	10.1	K2	1	..	40276b
18	3023	53.9	-3 5	8.6	9.0	F5	3	..	22970b	68	5404	54.2	-47 10	10.5	9.6	A5	2	..	39864b
19	2811	53.9	-8 19	9.7	10.0	F2	1	..	19137b	69	4347	54.2	-51 48	9.1	10.9	A3	1	..	38408b
20	5794	53.9	-42 22	9.1	8.9	Ao	5	..	19157b	70	2993	54.2	-52 20	9.0	9.2	G5	1	..	38797b
21	5783	53.9	-43 48	9.0	9.9	K5	1	..	19157b	71	2931	54.2	-54 47	9.9	10.0	A2	3	..	38408b
22	5615	53.9	-45 27	8.4	9.3	K5	1	..	19157b	72	2694	54.2	-56 23	7.6	8.5	A2	6	..	38797b
23	5399	53.9	-47 56	6.42	5.7	B5	10	..	39864b	73	1541	54.2	-60 34	9.5	9.5	Ao	2	..	40105b
24	5172	53.9	-49 4	10.0	9.5	Ao	3	..	39864b	74	551	54.3	+69 30	8.24	9.24	Ko	3	..	37706i
25	4342	53.9	-51 26	8.5	8.9	Ko	3	..	38797b	75	2128	54.3	+12 4	9.2	9.6	F5	2	..	37724i
26	2687	53.9	-57 6	9.4	10.0	Go	3	..	40105b	76	2275	54.3	+4 20	9.2	9.6	F5	3	..	13393b
27	1719	53.9	-58 36	9.5	10.5	Ko	2	..	40105b	77	2273	54.3	+2 30	8.9	9.5	Go	2	..	13393b
28	1540	53.9	-59 29	10.1	10.1	Ao	1	..	40105b	78	2332	54.3	-1 28	9.2	10.4	K5	1	..	22970b
29	1542	53.9	-59 33	9.1	9.9	Ko	2	..	40105b	79	3028	54.3	-2 36	7.44	7.72	Fo	8	..	22970b
30	1007	53.9	-68 21	8.5	8.5	B9	4	..	40074b	80	2785	54.3	-22 28	10.1	10.3	F2	1	..	13145b
31	1133	53.9	-69 32	8.8	8.8	Ao	2	..	40074b	81	7579	54.3	-26 35	10.2	9.7	Go	2	..	15600b
32	952	53.9	-70 38	8.4	8.8	F5	2	..	22988b	82	6551	54.3	-33 40	10.2	10.5	Ao	1	..	22915b
33	1377	54.0	+53 33	8.9	9.4	F8	2	..	38638i	83	5795	54.3	-43 20	10.5	9.9	A5	2	..	19157b
34	2031	54.0	+26 38	8.5	9.5	Ko	2	..	38642i	84	5673	54.3	-46 33	8.9	8.7	B9	6	..	39864b
35	3024	54.0	-2 32	7.40	7.74	F2	8	..	22970b	85	2937	54.3	-54 26	9.4	9.4	B9	3	..	38408b
36	2825	54.0	-3 59	9.2	10.4	K5	1	..	22970b	86	667	54.3	-73 9	8.8	9.6	G5	3	0,2	39946b
37	2812	54.0	-8 49	9.7	10.2	F8	1	..	19137b	87	485	54.3	-78 13	9.0	9.4	F5	6	..	21453b
38	2999	54.0	-13 40	7.8	7.9	A2	8	..	18996b	88	487	54.3	-79 5	9.5	10.0	F8	4	..	21453b
39	2957	54.0	-21 51	7.8	9.1	Ko	3	..	13145b	89	1359	54.4	+55 35	8.7	9.0	F2	1	..	38638i
40	8889	54.0	-23 51	7.89	8.2	F5	5	..	13145b	90	2191	54.4	+25 2	7.91	8.69	G5	5	..	38642i
41	7969	54.0	-29 44	9.2	9.9	Ko	1	..	22915b	91	2771	54.4	-4 56	9.1	10.3	K5	1	..	22970b
42	6003	54.0	-39 56	10.0	9.8	A3	1	..	40276b	92	3045	54.4	-12 17	7.68	7.68	Ao	7	..	18996b
43	6044	54.0	-44 26	9.1	9.3	F8	3	..	19157b	93	2949	54.4	-15 32	7.25	7.25	Ao	9	..	41224b
44	3094	54.0	-53 54	8.9	9.1	B9	3	..	38797b	94	3065	54.4	-21 12	9.2	9.7	Ko	2	5,2-	40313b
45	1369	54.0	-61 14	9.5	9.9	F5	2	..	40221b	95	2958	54.4	-21 43	8.2	9.1	G5	4	..	13145b
46	1947	54.1	+29 47	9.01	9.79	G5	1	..	37529i	96	8895	54.4	-23 15	9.7	10.4	Ko	1	..	13145b
47	2970	54.1	-9 44	9.5	10.0	F8	3	..	19137b	97	7580	54.4	-26 46	10.2	9.6	Ao	2	..	15600b
48	3021	54.1	-17 27	9.5	9.9	F5	1	..	41224b	98	6554	54.4	-33 11	8.2	8.7	F2	6	2,4	40082b
49	3022	54.1	-18 0	9.7	10.7	Ko	1	..	41224b	99	5676	54.4	-46 56	9.1	9.6	G5	1	..	39864b
50	6311	54.1	-35 1	10.0	9.3	Ao	4	..	22915b	100	4692	54.4	-50 34	9.1	8.7	Fo	3	..	39864b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2906	54.4	52 25	8.2	8.3	B8	4	..	38797b	51	8083	54.8	30 13	8.45	7.8	B8	5	..	22915b
2	3104	54.4	53 18	9.7	9.7	B8	3	..	38408b	52	6942	54.8	33 2	8.7	8.7	Go	5	0,5 R	40082b
3	2720	54.4	55 19	9.9	10.0	A3	2	..	38408b	53	5502	54.8	41 53	10.9	9.8	A2	2	..	19157b
4	2723	54.4	56 3	8.9	8.2	A2	5	0,4	40105b	54	2951	54.8	54 30	9.0	9.4	F8	4	..	38408b
5	2471	54.4	57 30	10.0	10.0	B9	3	..	40105b	55	1739	54.8	58 23	var.	var.	Mb	6	R	40105b
6	953	54.4	70 55	6.42	6.1	Bo	10	..	22988b	56	1738	54.8	58 36	8.67	9.2	B8	6	..	40105b
7	1442	54.5	52 24	8.3	8.8	F8	3	..	38638i	57	1557	54.8	59 29	9.8	9.8	B8	2	..	40105b
8	2140	54.5	21 44	var.	var.	Md	..	R	56,201	58	1380	54.8	61 12	9.1	9.2	B9	4	..	40221b
9	2055	54.5	16 39	8.5	9.1	G	3	..	37571i	59	1011	54.8	68 37	6.34	6.1	B5	10	..	22988b
10	2267	54.5	5 42	8.0	8.4	F5	8	..	13393b	60	363	54.8	82 26	8.29	8.6	Fo	5	5,5	20869b
11	2276	54.5	3 52	6.63	6.77	A5	9	..	13393b	61	1421	54.9	56 6	8.3	9.1	G5	3	..	38638i
12	8898	54.5	23 28	6.12	6.3	B5	7	..	7734b	62	1344	54.9	54 7	8.7	9.7	Ko	1	..	38638i
13	7829	54.5	31 38	8.9	9.4	F8	2	..	22915b	63	2301	54.9	8 31	4.89	6.24	Ma	..	0,8 R	1854c
14	6556	54.5	34 3	8.7	10.8	Ko	1	..	22915b	64	3030	54.9	2 59	8.6	8.9	Fo	4	..	22970b
15	6012	54.5	39 57	9.3	9.8	F5	1	..	40276b	65	2774	54.9	5 10	9.55	10.62	K2	1	..	22970b
16	2703	54.5	56 56	8.4	8.9	Fo	6	0,5	40105b	66	2951	54.9	15 46	9.5	10.1	Go	1	..	41224b
17	2473	54.5	57 17	10.2	10.3	A2	2	..	40105b	67	2789	54.9	22 39	9.2	10.3	Ko	1	..	13145b
18	1732	54.5	58 53	9.9	10.0	A5	1	..	40105b	68	2788	54.9	23 8	9.2	9.5	Fo	2	..	13145b
19	1551	54.5	59 14	8.8	9.3	B9	6	..	40105b	69	6058	54.9	36 52	9.3	9.9	K5	1	..	39922b
20	1231	54.5	63 11	9.1	9.2	A2	4	..	40221b	70	6057	54.9	36 53	10.0	9.6	F5	1	..	39922b
21	2239	54.6	6 5	8.3	9.3	Ko	5	..	13393b	71	4701	54.9	50 31	9.0	8.7	Ao	5	..	39864b
22	2275	54.6	1 7	9.2	9.8	Go	1	..	22970b	72	4360	54.9	51 23	9.8	9.8	K2	1	..	38408b
23	2936	54.6	7 23	7.8	8.6	G5	7	..	19137b	73	2712	54.9	57 1	9.5	10.3	G5	1	..	40105b
24	3001	54.6	13 16	8.0	8.1	A2	7	..	18996b	74	1548	54.9	60 16	7.79	8.9	G5	6	0,5-	40105b
25	2883	54.6	19 42	8.0	8.5	F8	6	..	13145b	75	1379	54.9	61 27	6.9	7.7	Ao	7	..	34089b
26	2884	54.6	19 53	6.94	8.4	K2	7	..	13145b	76	1375	54.9	62 17	8.3	9.3	Ko	2	..	40221b
27	2786	54.6	22 19	9.5	10.3	Go	1	..	13145b	77	552	55.0	69 16	7.9	8.3	F5	7	..	37706i
28	7831	54.6	31 19	9.9	9.4	B9	2	..	22915b	78	1732	55.0	47 23	8.9	9.7	G5	1	..	38291i
29	6050	54.6	35 25	5.25	6.8	Fo	..	R	56,127	79	1571	55.0	46 36	8.8	9.6	G5	1	..	38291i
30	5665	54.6	40 53	7.4	8.6	G5	5	5,7	19157b	80	1827	55.0	28 39	7.9	8.5	Go	4	..	38203i
31	2945	54.6	54 25	10.0	10.0	Ao	1	..	38408b	81	2163	55.0	24 2	9.5	9.6	A2	3	E	37571i
32	2943	54.6	54 36	10.6	10.6	Ao	2	..	38408b	82	2153	55.0	21 57	8.9	9.0	A3	3	..	37571i
33	2725	54.6	55 41	8.9	8.6	B8	4	..	38797b	83	2240	55.0	6 43	7.9	8.3	F5	7	..	9463b
34	1233	54.6	64 1	6.49	8.0	Ko	8	..	40221b	84	3026	55.0	18 11	7.8	7.9	A2	7	..	41224b
35	889	54.6	71 16	8.8	9.8	Ko	2	..	39946b	85	3066	55.0	21 5	9.2	9.5	F8	3	0,3	13145b
36	890	54.6	71 59	8.8	10.0	K5	1	..	39946b	86	6202	55.0	37 28	10.0	10.1	Ao	1	..	39922b
37	476	54.7	71 50	8.1	9.1	Ko	3	..	37706i	87	5632	55.0	45 29	9.0	9.0	B8	3	..	19157b
38	2965	54.7	10 14	8.46	9.64	K5	3	..	18996b	88	2479	55.0	57 47	10.4	10.7	Fo	1	..	40105b
39	2966	54.7	10 35	8.8	9.4	Go	1	..	18996b	89	1559	55.0	59 12	10.1	10.1	B8	1	..	40105b
40	7650	54.7	25 43	8.9	9.9	K5	3	..	15600b	90	1560	55.0	60 6	10.1	10.1	A	1	..	40105b
41	6056	54.7	36 41	9.4	10.1	K5	1	..	39922b	91	650	55.0	74 25	9.8	9.9	A2	2	..	21453b
42	4844	54.7	49 39	9.1	8.9	G5	3	..	39864b	92	570	55.0	77 25	9.0	9.5	F8	4	..	21453b
43	2946	54.7	54 49	10.3	10.3	B8	2	..	38408b	93	1156	55.1	61 26	9.0	9.8	G5	1	E	37725i
44	2727	54.7	55 35	8.9	8.6	Ao	4	..	38797b	94	2775	55.1	4 32	7.6	8.7	K2	7	..	22970b
45	2729	54.7	55 51	9.7	9.7	Ao	2	..	38797b	95	2952	55.1	15 49	8.6	9.8	K5	2	..	41224b
46	1737	54.7	58 46	9.0	9.8	Fo	4	..	40105b	96	2889	55.1	19 42	9.1	10.0	Fo	3	2,2	41224b
47	1168	54.7	67 25	8.6	9.8	K5	1	..	40074b	97	5505	55.1	41 55	8.7	8.9	Ao	5	..	19157b
48	891	54.7	71 21	8.9	10.0	K2	1	..	39946b	98	5804	55.1	43 9	10.0	10.1	Ao	2	..	19157b
49	2963	54.8	6 1	9.5	10.1	Go	1	..	19137b	99	5690	55.1	47 0	7.6	8.5	K2	4	..	39864b
50	2992	54.8	14 29	9.2	10.3	K2	2	..	18996b	100	2486	55.1	57 15	8.5	9.1	B9	5	..	40105b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2488	55.1	-57 50	10.6	10.6	B9	1	..	40105b	51	2938	55.4	-7 16	9.5	10.3	G5	1	..	19137b
2	2487	55.1	-58 3	10.0	10.0	B9	3	..	40105b	52	7990	55.4	-29 47	8.3	9.9	Go	2	..	22915b
3	1381	55.1	-62 6	7.2	8.1	G5	5	..	34089b	53	6948	55.4	-32 8	9.0	9.0	Ao	3	..	22915b
4	1238	55.1	-63 28	8.6	9.8	K5	2	..	40221b	54	6064	55.4	-44 28	6.94	7.0	Ao	8	..	40189b
5	954	55.1	-71 2	9.5	9.8	Fo	1	..	39946b	55	5638	55.4	-45 49	8.0	8.1	Fo	5	..	39864b
6	2059	55.2	+16 20	7.70	8.70	Ko	3	..	37571i	56	4373	55.4	-51 47	9.1	9.3	Ko	3	..	38408b
7	2302	55.2	+3 35	9.2	10.2	Ko	2	..	13393b	57	2968	55.4	-54 9	8.5	10.0	K2	3	..	38408b
8	2277	55.2	-0 35	9.2	10.2	Ko	1	..	22970b	58	2966	55.4	-54 50	9.4	10.0	Go	2	..	38408b
9	2776	55.2	-4 40	9.2	10.3	K2	1	..	22970b	59	1345	55.5	+53 50	9.1	9.9	G5	1	..	38638i
10	3054	55.2	-6 13	8.4	8.7	Fo	6	..	19137b	60	1380	55.5	+52 52	8.7	9.7	Ko	2	..	38638i
11	2792	55.2	-22 52	8.6	10.0	K2	2	..	13145b	61	2600	55.5	+0 17	8.9	9.9	Ko	3	..	13393b
12	7114	55.2	-27 51	7.9	9.6	K5	4	..	15600b	62	2954	55.5	-16 1	8.0	8.1	A2	7	..	41224b
13	6323	55.2	-34 23	10.4	10.7	F5	3	..	22915b	63	2796	55.5	-22 36	9.1	9.5	A5	2	..	13145b
14	6062	55.2	-44 32	8.5	8.8	Ko	2	..	19157b	64	8914	55.5	-24 1	8.9	9.2	Fo	4	..	13145b
15	5414	55.2	-48 0	8.5	8.4	Ko	4	..	39864b	65	8094	55.5	-30 52	7.34	8.7	K2	5	..	22915b
16	4851	55.2	-49 25	8.5	8.7	G5	4	..	39864b	66	7845	55.5	-32 5	8.1	9.0	Ko	3	..	22915b
17	4366	55.2	-51 21	9.6	9.3	Ko	2	0,1	38408b	67	6951	55.5	-32 43	9.8	9.9	Go	2	..	40082b
18	4369	55.2	-52 4	10.2	9.6	B9	1	..	38408b	68	6328	55.5	-34 32	9.0	10.1	Go	4	..	22915b
19	3010	55.2	-52 40	9.0	9.3	Ao	3	..	38408b	69	6327	55.5	-34 53	9.4	10.7	K2	2	..	22915b
20	3126	55.2	-53 23	10.0	10.0	B8	2	..	38408b	70	6210	55.5	-37 29	9.4	10.4	Ao	2	..	39922b
21	1566	55.2	-59 25	10.0	10.1	A2	3	..	40105b	71	1750	55.5	-58 17	9.30	9.2	B8	4	..	40105b
22	1565	55.2	-59 34	8.4	8.7	B9	3	0,8	34089b	72	1242	55.5	-63 51	8.4	8.4	Ao	6	..	40221b
23	1381	55.2	-62 53	9.6	9.6	Ao	2	..	40221b	73	1199	55.5	-66 5	8.6	9.8	K5	1	..	40221b
24	1133	55.2	-64 17	9.5	9.5	Ao	3	..	40221b	74	606	55.5	-76 49	8.4	9.6	K5	5	..	21453b
25	1228	55.3	+60 39	8.8	9.8	Ko	4	..	37725i	75	1423	55.6	+56 34	9.3	9.4	A3	1	..	38638i
26	1445	55.3	+52 37	9.3	10.3	Ko	1	..	38638i	76	2038	55.6	+37 0	7.9	8.5	Go	4	..	38241i
27	1984	55.3	+43 28	8.3	9.3	Ko	2	..	38291i	77	2083	55.6	+31 3	7.8	7.9	A2	4	..	38203i
28	1964	55.3	+32 26	5.60	6.38	G5	10	R	38673i	78	1986	55.6	+29 16	6.99	8.06	K2	4	..	38203i
29	1965	55.3	+32 1	8.6	8.6	A	1	R	38203i	79	2303	55.6	+8 42	9.0	10.1	K2	1	..	13402b
30	2415	55.3	+20 26	9.5	10.1	G	2	..	37571i	80	2821	55.6	-9 8	8.4	9.5	K2	4	..	19137b
31	2303	55.3	+18 2	7.9	8.3	F5	5	..	37571i	81	2955	55.6	-15 49	8.8	9.8	Ko	3	..	41224b
32	3828	55.3	-3 47	9.2	9.5	Fo	3	..	22970b	82	3030	55.6	-17 21	8.6	8.6	Ao	6	..	41224b
33	3055	55.3	-7 3	9.0	9.1	A2	5	..	19137b	83	5696	55.6	-46 17	9.6	9.3	A3	2	..	39864b
34	2938	55.3	-17 10	9.0	9.1	A2	4	..	41224b	84	5197	55.6	-48 44	9.8	9.3	Ao	2	..	39864b
35	7660	55.3	-25 55	7.57	8.7	K5	6	..	40303b	85	4856	55.6	-49 32	9.8	9.5	A2	2	..	39864b
36	6945	55.3	-33 0	9.0	10.0	Ko	1	..	40082b	86	2975	55.6	-54 30	9.2	10.0	G5	2	..	38408b
37	6058	55.3	-35 13	9.44	10.7	K2	2	..	22915b	87	1572	55.6	-59 37	9.4	9.5	A2	3	..	40105b
38	5817	55.3	-42 13	9.1	8.9	A2	4	..	19157b	88	1201	55.6	-65 27	9.0	9.0	Ao	3	..	40221b
39	5993	55.3	-46 37	7.6	8.4	K2	5	..	39864b	89	219	55.6	-85 58	9.8	9.8	Ao	3	..	22238b
40	2744	55.3	-55 53	9.8	9.8	Ao	2	..	38797b	90	630	55.7	+67 27	8.6	9.8	K5	1	..	38654i
41	2717	55.3	-56 12	8.5	10.0	Ko	3	5,3	40105b	91	1245	55.7	+57 44	7.9	8.3	F5	5	..	38638i
42	2716	55.3	-56 33	9.6	10.6	Ko	1	..	40105b	92	1986	55.7	+43 17	8.9	9.0	A2	2	..	38291i
43	2719	55.3	-57 6	10.6	10.6	Ao	2	..	40105b	93	1967	55.7	+32 20	9.2	9.6	F5	2	..	37529i
44	1748	55.3	-58 56	9.5	10.7	K5	1	..	40105b	94	2280	55.7	+9 27	8.0	8.6	Go	4	..	37724i
45	1446	55.4	+52 19	9.1	10.2	K2	1	..	38638i	95	3056	55.7	-6 37	8.4	8.7	F2	9	..	19137b
46	1566	55.4	+50 59	7.84	8.18	F2	4	..	38638i	96	2972	55.7	-10 25	8.6	8.6	B8	6	..	18996b
47	2094	55.4	+35 7	8.7	9.2	F8	1	..	38241i	97	5817	55.7	-44 4	9.1	9.0	A2	3	..	19157b
48	2154	55.4	+22 19	9.5	9.6	A5	2	..	37571i	98	5698	55.7	-46 31	9.6	9.0	Ao	3	..	39864b
49	2391	55.4	+1 19	9.4	10.2	G5	1	..	13393b	99	4858	55.7	-49 55	9.4	8.9	A2	3	..	39864b
50	2278	55.4	-0 46	9.2	10.2	Ko	2	..	22970b	100	2751	55.7	-56 0	9.6	9.7	A2	2	0,2	38797b

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	1987	55.8	+29 2	8.8	9.4	Go	2	..	37529i	51	2730	56.1	-56 36	9.1	9.7	B8	4	..	40105b
2	2269	55.8	+5 29	8.1	9.3	K5	1	..	9463b	52	1760	56.1	-58 40	10.4	10.4	B9	1	..	40105b
3	3057	55.8	-6 13	9.0	9.3	F2	5	..	19137b	53	1141	56.1	-64 10	9.2	9.2	B9	3	..	40221b
4	6064	55.8	-36 34	10.4	10.7	Ao	1	..	39922b	54	631	56.2	+66 55	8.7	9.2	F8	2	..	38654i
5	5422	55.8	-48 2	10.5	9.0	A3	3	..	39864b	55	882	56.2	+63 3	7.44	8.44	Ko	6	..	38654i
6	4859	55.8	-49 58	8.78	8.4	Ao	4	..	39864b	56	1791	56.2	+45 3	8.8	9.8	Ko	1	..	38291i
7	3025	55.8	-52 24	9.8	9.8	Ao	2	..	38408b	57	2167	56.2	+24 28	8.1	9.1	Ko	3	E	37571i
8	2756	55.8	-55 50	9.0	9.1	A2	3	1,2	38797b	58	3008	56.2	-13 40	8.6	9.7	K2	5	..	18996b
9	1574	55.8	-59 38	9.5	9.8	F2	3	..	40105b	59	3009	56.2	-13 44	9.0	9.6	Go	3	..	18996b
10	1139	55.8	-66 32	8.0	8.0	Ao	6	..	40221b	60	3071	56.2	-20 55	9.5	10.3	K5	1	..	41224b
11	2093	55.9	+38 13	8.7	9.2	F8	2	..	38241i	61	6039	56.2	-39 48	9.8	9.6	Go	2	..	39922b
12	1988	55.9	+29 0	8.7	9.2	F8	3	..	38203i	62	6038	56.2	-40 6	9.74	8.7	Ao	4	0,4	19157b
13	2305	55.9	+3 0	10.2	10.3	A2	3	..	13393b	63	5688	56.2	-40 26	9.0	9.2	F5	4	0,3	19157b
14	2831	55.9	-3 47	8.7	8.8	A5	6	..	22970b	64	5653	56.2	-45 33	8.6	9.3	K2	2	..	19157b
15	2830	55.9	-3 53	9.5	9.9	F5	4	..	22970b	65	5203	56.2	-48 28	8.4	8.9	Ko	3	..	39864b
16	2890	55.9	-19 28	9.7	10.0	A2	3	0,1	41224b	66	4391	56.2	-52 5	9.4	9.3	Fo	3	..	38408b
17	8106	55.9	-30 9	9.35	9.3	A2	3	..	22915b	67	2986	56.2	-54 53	8.8	9.4	A3	4	..	38797b
18	6332	55.9	-34 50	7.5	8.2	Ao	5	..	13116b	68	1387	56.2	-62 52	7.6	8.4	G5	5	..	34089b
19	6067	55.9	-35 34	7.48	7.8	Go	7	..	13116b	69	1251	56.2	-63 53	9.5	9.5	Ao	3	..	40221b
20	5829	55.9	-42 32	8.0	9.0	Ko	3	..	19157b	70	767	56.3	+64 35	8.1	8.4	F2	4	..	38654i
21	2723	55.9	-56 58	9.9	10.9	Ko	1	..	40105b	71	1706	56.3	+50 21	7.50	8.50	Ko	4	..	38291i
22	2512	55.9	-57 25	9.0	9.4	Fo	4	..	40105b	72	1736	56.3	+46 51	8.17	8.95	G5	4	..	38291i
23	2510	55.9	-57 39	7.4	7.8	B9	6	0,10	34089b	73	1970	56.3	+32 1	7.50	8.28	G5	2	..	38203i
24	2508	55.9	-57 46	9.7	9.7	A	3	..	40105b	74	2832	56.3	-3 22	9.5	9.6	A3	4	..	22970b
25	1575	55.9	-59 14	8.2	9.8	Ko	3	..	40105b	75	8108	56.3	-30 18	8.7	9.0	A2	5	..	22915b
26	2061	56.0	+16 10	7.9	8.9	Ko	4	..	37571i	76	6336	56.3	-34 12	9.4	10.4	G5	2	..	40082b
27	2219	56.0	+7 42	8.9	9.4	F8	4	..	13402b	77	5521	56.3	-41 51	10.7	9.2	A3	3	..	19157b
28	2306	56.0	+3 46	9.2	10.2	Ko	2	..	13393b	78	5205	56.3	-48 53	8.4	8.0	B9	5	..	39864b
29	3032	56.0	-2 42	7.28	8.46	K5	7	..	22970b	79	2734	56.3	-57 2	10.3	10.3	B8	2	..	40105b
30	7595	56.0	-26 40	8.5	9.1	K5	4	..	15600b	80	2519	56.3	-57 22	9.9	10.9	Ko	1	..	40105b
31	8001	56.0	-29 16	9.4	10.5	Ko	1	..	15600b	81	2518	56.3	-57 38	10.0	10.3	Fo	2	..	40105b
32	5516	56.0	-41 59	8.0	9.0	K2	4	..	19157b	82	1584	56.3	-59 15	9.8	9.8	Ao	2	..	40105b
33	4863	56.0	-49 22	9.0	8.9	Go	2	..	39864b	83	157	56.3	-87 29	8.9	10.0	K2	2	3,1	22578b
34	3144	56.0	-53 58	10.3	10.3	Ao	2	..	38408b	84	1231	56.4	+58 35	7.38	7.88	F8	4	..	38638i
35	2726	56.0	-56 27	10.1	10.7	G	1	..	40105b	85	2277	56.4	+4 44	9.21	9.49	Fo	4	..	13393b
36	1384	56.0	-61 50	8.0	8.3	A5	5	..	34089b	86	3059	56.4	-6 40	9.1	10.1	Ko	3	..	19137b
37	1140	56.0	-64 57	9.2	9.2	Ao	6	..	40221b	87	6073	56.4	-35 28	9.4	10.1	A5	3	0,2	22915b
38	464	56.0	-79 57	9.5	9.8	F2	5	..	21453b	88	5833	56.4	-42 24	7.8	8.0	A2	9	0,9	19157b
39	525	56.1	+71 21	8.3	8.8	F8	4	..	37706i	89	5827	56.4	-43 57	9.8	9.0	B5	4	..	19157b
40	1158	56.1	+61 24	8.7	9.7	Ko	2	..	37725i	90	4868	56.4	-49 45	9.4	8.9	Ao	3	..	39864b
41	1735	56.1	+47 11	9.8	10.8	Ko	1	..	38291i	91	4395	56.4	-52 4	9.0	10.0	K5	1	..	38408b
42	2280	56.1	-0 17	9.18	9.18	Ao	5	..	13393b	92	1763	56.4	-58 15	9.2	9.2	B9	4	..	40105b
43	8003	56.1	-29 14	10.4	10.2	Ao	1	..	15600b	93	1210	56.4	-65 30	7.8	7.8	B8	8	..	40221b
44	7855	56.1	-31 41	8.9	8.7	A2	2	..	22915b	94	1246	56.5	+57 9	7.9	8.3	F5	4	..	38638i
45	6334	56.1	-34 26	10.0	10.4	Ao	2	..	40082b	95	1346	56.5	+54 21	9.0	10.0	Ko	2	..	38638i
46	6067	56.1	-36 16	8.0	9.5	G5	4	5,2	39922b	96	2041	56.5	+37 30	9.2	9.8	Go	2	..	38241i
47	5202	56.1	-49 6	9.0	9.2	F5	2	..	39864b	97	2160	56.5	+22 11	8.8	9.9	K2	2	..	38642i
48	4390	56.1	-51 22	9.6	9.3	Ko	1	..	38408b	98	2132	56.5	+12 38	7.9	8.9	Ko	5	..	37724i
49	3029	56.1	-52 44	9.0	9.2	F2	4	..	38797b	99	2220	56.5	+7 33	9.2	10.2	Ko	1	..	13402b
50	2731	56.1	-56 20	9.9	10.7	G5	1	..	40105b	100	2276	56.5	+2 46	8.7	9.7	Ko	4	..	13393b

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THE HENRY DRAPER CATALOGUE.

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2311	59.0	+ 3 42	6.42	6.76	F2	10	..	19341b	51	957	59.3	-70 15	7.24	7.6	F2	5	..	22988b
2	8046	59.0	-29 45	8.9	8.5	A2	4	..	22915b	52	478	59.4	+72 41	9.1	9.9	G5	2	..	37706i
3	7009	59.0	-32 45	6.76	7.8	Ko	8	..	40082b	53	596	59.4	+70 21	8.7	9.1	F5	4	..	37706i
4	6615	59.0	-33 11	9.4	9.9	Ao	3	..	40082b	54	590	59.4	+67 49	8.6	9.1	F8	2	..	38654i
5	6250	59.0	-37 46	9.4	10.1	G5	1	..	39922b	55	634	59.4	+66 48	7.9	9.1	K5	3	..	38654i
6	6082	59.0	-39 14	11.1	10.1	G5	1	..	39922b	56	769	59.4	+64 5	9.1	10.1	Ko	1	..	38654i
7	6085	59.0	-39 47	10.2	9.8	Ao	2	..	39922b	57	1573	59.4	+51 26	7.79	8.21	F5	4	..	38638i
8	1820	59.0	-58 13	9.5	10.3	G5	1	..	40105b	58	1956	59.4	+30 14	8.41	8.83	F5	2	..	38203i
9	1705	59.0	-59 41	9.5	9.5	Ao	3	..	40105b	59	3068	59.4	- 6 44	7.46	8.24	G5	7	..	40281b
10	1237	59.1	+60 45	8.7	9.8	K2	1	..	37725i	60	2838	59.4	- 8 41	8.6	8.9	Fo	5	..	19137b
11	1237	59.1	+57 59	9.8	10.6	G5	1	..	38224i	61	7165	59.4	-28 0	7.7	8.3	F8	4	..	39939b
12	1450	59.1	+51 53	7.8	7.9	A2	5	..	38638i	62	6109	59.4	-35 51	9.0	10.1	Fo	2	..	40276b
13	2288	59.1	+ 9 18	9.4	9.5	A5	2	..	13402b	63	5759	59.4	-46 9	6.27	6.6	Ao	..	0,7-	56,127
14	2608	59.1	+ 0 26	9.9	10.5	Go	1	..	19341b	64	4436	59.4	-51 34	7.9	8.0	A2	7	..	38797b
15	2985	59.1	-10 7	9.06	9.84	G5	2	..	18996b	65	2574	59.4	-57 12	9.8	10.6	G5	1	..	40105b
16	3045	59.1	-18 1	9.2	10.0	G5	2	..	40313b	66	1727	59.4	-59 40	9.6	9.6	Ao	2	..	40105b
17	8710	59.1	-24 36	10.6	10.1	F8	1	..	40303b	67	901	59.4	-71 50	7.7	8.2	F8	6	..	22988b
18	8711	59.1	-24 50	6.73	7.7	Ao	9	..	40303b	68	403	59.4	-81 6	8.66	9.5	Ko	1	..	13465b
19	7639	59.1	-26 25	7.30	8.1	Fo	6	..	39939b	69	390	59.4	-81 21	8.38	8.8	A2	5	2,3	20869b
20	7862	59.1	-28 33	7.9	8.5	G5	4	..	39939b	70	1940	59.5	+33 42	8.2	9.0	G5	1	..	38673i
21	2825	59.1	-55 23	9.6	10.0	F5	1	..	38797b	71	2173	59.5	+22 19	8.7	9.5	G5	1	..	37571i
22	2823	59.1	-55 43	8.9	8.6	A2	6	..	38797b	72	2199	59.5	+13 20	8.5	9.3	G5	2	..	37724i
23	2826	59.1	-55 46	7.7	8.2	G5	5	..	38797b	73	2341	59.5	- 2 13	9.27	10.34	K2	1	R	22970b
24	1416	59.1	-61 17	9.0	9.8	A2	3	..	40221b	74	3050	59.5	-18 7	9.5	9.5	Ao	2	..	40313b
25	1154	59.1	-66 38	9.7	9.8	A3	1	..	40074b	75	2834	59.5	-18 58	9.2	10.2	Ko	2	..	40313b
26	648	59.2	+65 48	8.5	8.9	F5	7	..	38654i	76	7917	59.5	-31 57	8.9	10.5	Ko	1	..	40082b
27	2251	59.2	+ 6 30	9.0	9.3	Fo	3	..	13402b	77	6380	59.5	-34 8	9.6	10.7	K	1	..	40082b
28	2250	59.2	+ 5 54	9.2	10.4	K5	1	..	13402b	78	6130	59.5	-44 57	8.78	9.7	K2	1	..	40189b
29	2289	59.2	- 1 13	8.5	9.0	F8	6	..	22970b	79	5486	59.5	-47 38	9.6	9.7	A5	2	..	39864b
30	3046	59.2	-17 37	8.0	8.0	Ao	6	..	40313b	80	3218	59.5	-54 4	8.3	8.8	B2	4	..	38797b
31	2832	59.2	-18 24	9.2	9.3	A2	3	..	40313b	81	3055	59.5	-54 9	9.9	10.0	A5	2	..	38797b
32	6105	59.2	-36 52	8.7	8.6	B9	5	..	40276b	82	2834	59.5	-55 14	9.74	9.4	A3	3	..	38797b
33	6252	59.2	-37 38	9.6	10.7	F2	1	..	39922b	83	2832	59.5	-55 31	9.4	9.4	Ao	3	..	38797b
34	5872	59.2	-43 21	7.7	7.9	Ko	6	..	19157b	84	2580	59.5	-57 17	9.6	9.4	B	2	..	40105b
35	4429	59.2	-52 6	10.5	9.8	A2	2	..	38408b	85	1737	59.5	-60 1	10.3	10.3	Ao	2	..	40105b
36	3209	59.2	-53 11	10.2	10.3	A3	2	..	38408b	86	280	59.6	+82 53	7.59	8.59	Ko	4	..	37465i
37	2783	59.2	-57 3	10.2	10.3	A2	1	..	40105b	87	1581	59.6	+46 8	8.6	9.6	Ko	1	..	38291i
38	1409	59.2	-62 33	9.1	10.1	Ko	2	..	40221b	88	2174	59.6	+22 27	8.3	9.3	K	2	..	37571i
39	1155	59.2	-66 26	9.7	9.8	A2	1	..	40074b	89	2429	59.6	+20 24	8.1	8.9	G5	3	..	37571i
40	2098	59.3	+38 8	8.6	8.7	A3	2	..	38241i	90	2164	59.6	+15 38	7.7	8.7	Ko	2	..	37571i
41	2279	59.3	+ 5 35	9.2	10.3	K2	1	..	13402b	91	2162	59.6	+11 7	9.0	9.3	F2	3	..	37724i
42	2789	59.3	- 4 29	9.7	10.5	G5	1	..	22970b	92	2280	59.6	+ 5 29	8.0	8.6	Go	7	..	13402b
43	3017	59.3	-14 45	8.7	9.2	F8	2	..	40247b	93	2088	59.6	-10 1	8.5	9.7	K5	2	..	18996b
44	3047	59.3	-17 37	5.78	5.78	Ao	6	0,10	5873b	94	2076	59.6	-22 5	7.8	9.2	K5	4	..	40303b
45	8716	59.3	-24 59	9.25	9.7	K5	2	..	40303b	95	8971	59.6	-23 38	8.5	9.5	Ko	3	..	40303b
46	6090	59.3	-39 24	10.9	10.4	Ko	1	..	39922b	96	6383	59.6	-34 23	8.0	9.5	Ko	4	..	40082b
47	5250	59.3	-48 50	9.2	9.2	A2	3	..	39864b	97	6112	59.6	-36 47	9.8	11.3	Ma	1	..	39922b
48	2571	59.3	-57 59	9.9	10.3	F5	1	..	40105b	98	6135	59.6	-38 48	7.00	8.1	K5	6	..	40276b
49	1724	59.3	-59 24	8.8	9.2	B9	4	..	40105b	99	6137	59.6	-39 5	10.7	9.8	F8	2	..	39922b
50	1223	59.3	-65 20	9.5	9.5	Ao	3	..	40221b	100	5711	59.6	-45 12	8.28	7.9	A2	3	..	40189b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5253	59.6	m. -48 25	9.8	9.2	Fo	2	..	39864b	51	6628	59.9	-33 44	9.1	9.7	Fo	3	..	40082b
2	1832	59.6	-58 21	8.6	8.7	B8	4	..	40105b	52	5740	59.9	-40 28	8.7	9.5	K5	1	..	40276b
3	1831	59.6	-58 48	8.9	8.9	A2	3	..	40105b	53	5891	59.9	-42 18	9.1	8.7	B9	5	..	19157b
4	1741	59.6	-59 21	9.5	9.5	B9	3	..	40105b	54	5881	59.9	-43 17	8.8	9.2	Ko	2	..	19157b
5	1740	59.6	-59 28	8.9	9.2	Ao	4	..	40105b	55	5490	59.9	-47 40	8.87	9.2	B8	2	..	39864b
6	1602	59.6	-60 49	8.4	8.6	B3	6	5.3	40221b	56	4767	59.9	-50 35	8.6	8.7	B9	4	..	38797b
7	1423	59.6	-61 54	8.9	9.2	A2	4	..	40221b	57	3063	59.9	-54 27	8.8	9.4	B8	4	..	38797b
8	1224	59.6	-65 26	7.36	7.4	B8	8	..	40221b	58	1756	59.9	-59 21	8.4	8.6	Ao	7	..	40105b
9	579	59.6	-77 59	9.6	10.6	K	1	..	21453b	59	1610	59.9	-60 15	9.3	9.3	Ao	4	0.4	40105b
10	649	59.7	+66 9	9.8	10.8	Ko	1	..	38654i	60	1159	59.9	-66 59	9.0	9.3	Fo	2	..	40074b
11	2050	59.7	+41 31	7.60	7.88	Fo	5	..	38241i	61	1018	59.9	-68 12	9.3	10.3	Ko	1	..	40074b
12	2430	59.7	+19 55	8.35	9.13	G5	2	..	37571i	62	2102	0.0	+35 28	7.39	8.39	Ko	5	..	38241i
13	2291	59.7	- 0 52	9.2	10.2	Ko	1	..	22970b	63	1991	0.0	+29 7	9.6	10.4	G5	1	..	37529i
14	2841	59.7	- 8 24	9.0	10.2	K5	1	..	40281b	64	3057	0.0	-17 44	9.8	10.8	Ko	2	..	40313b
15	2835	59.7	-18 56	8.6	8.7	A2	5	..	40313b	65	2816	0.0	-22 25	9.3	10.0	Fo	1	..	40303b
16	7171	59.7	-27 53	7.29	8.1	F8	5	..	39939b	66	6142	0.0	-39 3	8.8	8.4	A2	5	..	40276b
17	5887	59.7	-42 44	9.2	9.2	G5	2	..	19157b	67	5893	0.0	-42 11	9.1	9.3	K	1	..	19157b
18	4902	59.7	-49 34	9.2	8.9	Ao	3	..	39864b	68	2850	0.0	-56 3	9.4	9.4	Ao	2	..	38797b
19	1839	59.7	-58 8	8.4	8.6	F5	6	..	40105b	69	2792	0.0	-56 43	9.5	10.3	G5	2	..	40105b
20	902	59.7	-71 34	9.4	9.8	F5	2	..	39946b	70	1848	0.0	-58 23	8.9	9.2	Ao	3	..	40105b
21	1430	59.8	+56 17	7.30	8.30	Ko	5	..	38638i	71	1768	0.0	-59 51	9.6	9.6	B9	3	..	40105b
22	2101	59.8	+35 9	8.02	9.02	Ko	2	..	38241i	72	1435	0.0	-61 32	8.9	8.9	Ao	4	..	40221b
23	2316	59.8	+ 8 29	7.24	7.66	F5	8	..	37724i	73	2079	0.1	+34 44	8.37	9.15	G5	3	..	38241i
24	2787	59.8	-11 15	7.8	8.8	Ko	5	..	18996b	74	2817	0.1	-22 27	9.3	10.3	G5	1	..	40303b
25	3055	59.8	-17 27	7.9	8.0	A2	7	..	40313b	75	8980	0.1	-23 32	9.3	10.3	Ko	1	..	40303b
26	8974	59.8	-23 26	10.2	10.3	F2	1	..	40303b	76	7026	0.1	-32 31	8.8	9.6	Go	2	..	40082b
27	8973	59.8	-23 48	5.80	6.7	Fo	..	0,10	56,127	77	6100	0.1	-39 29	6.44	8.0	Ko	8	..	40276b
28	7920	59.8	-31 15	9.7	9.4	F2	2	..	40082b	78	5257	0.1	-48 8	8.9	8.6	Ko	3	..	39864b
29	7021	59.8	-32 11	9.3	9.4	F5	2	..	40082b	79	1771	0.1	-59 28	8.5	9.3	Ko	3	..	40105b
30	6115	59.8	-36 6	9.0	9.8	F5	3	..	40276b	80	375	0.2	+76 18	8.6	9.0	F5	3	..	37714i
31	5738	59.8	-40 29	9.0	8.6	F5	6	5.5	19157b	81	1165	0.2	+61 24	7.38	8.56	K5	5	3,4	37725i
32	5717	59.8	-45 16	9.38	8.9	Ao	1	..	40189b	82	1431	0.2	+56 8	8.1	8.4	F2	5	..	38638i
33	3143	59.8	-52 34	8.7	8.6	F5	3	..	38797b	83	1364	0.2	+55 18	8.8	10.0	K5	1	..	38638i
34	2789	59.8	-56 23	9.7	9.7	Ao	3	0.3	38797b	84	2052	0.2	+41 35	8.2	9.0	G5	2	E	38291i
35	2584	59.8	-57 37	8.7	9.7	Go	4	..	40105b	85	2054	0.2	+41 24	8.1	8.9	G5	1	E	38291i
36	1752	59.8	-59 41	6.02	6.7	A5	7	2,10	34089b	86	3052	0.2	- 3 2	7.54	8.72	K5	6	..	22970b
37	1608	59.8	-60 10	9.6	9.6	Ao	3	..	40105b	87	2788	0.2	-11 29	8.7	9.7	K	1	..	18996b
38	1431	59.8	-61 40	6.44	8.7	K5	3	..	34089b	88	7179	0.2	-27 42	6.87	7.9	B9	8	..	39939b
39	1185	59.8	-67 28	9.0	9.5	F8	2	..	40074b	89	7878	0.2	-29 1	9.6	10.1	F5	1	..	15600b
40	468	59.8	-79 7	10.3	10.3	A	1	..	21453b	90	6145	0.2	-38 46	10.1	9.8	Ko	1	..	40276b
41	598	59.9	+70 25	7.90	8.18	Fo	6	..	37706i	91	5896	0.2	-42 12	9.6	9.0	Ao	3	..	19157b
42	2286	59.9	+40 4	7.17	7.31	A5	7	..	38241i	92	2853	0.2	-55 14	8.74	8.8	A3	4	..	38797b
43	2095	59.9	+31 35	7.86	7.94	A3	3	..	38203i	93	2798	0.2	-57 5	8.9	9.4	Ao	6	0.4	38797b
44	1990	59.9	+29 13	8.7	9.7	Ko	2	..	37529i	94	2596	0.2	-57 37	10.2	10.0	B	1	..	40105b
45	1844	59.9	+26 58	8.8	9.8	Ko	1	..	37529i	95	1162	0.2	-66 32	9.8	9.8	A	1	..	40074b
46	2289	59.9	+ 9 8	8.9	9.5	Go	3	..	37724i	96	1020	0.2	-68 50	8.5	8.6	A2	4	..	40297b
47	2610	59.9	+ 0 0	8.5	8.8	Fo	6	..	19341b	97	610	0.2	-76 14	9.4	10.4	K	1	..	21453b
48	2791	59.9	- 4 49	8.8	9.3	F8	3	..	22970b	98	470	0.2	-79 29	9.8	10.2	F5	2	..	21453b
49	7172	59.9	-27 15	8.3	10.0	K2	1	..	39939b	99	1952	0.3	+44 3	9.4	9.7	F	1	..	38291i
50	7023	59.9	-32 50	9.0	9.9	Ao	1	..	40082b	100	2077	0.3	+16 14	6.28	6.56	Fo	10	..	37571i

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2163	0.3	+11 24	8.5	9.5	Ko	3	..	37724i	51	2287	0.6	+ 3 53	8.0	8.0	Ao	6	..	19341b
2	3053	0.3	- 2 53	7.74	8.81	K2	6	..	22970b	52	3074	0.6	-12 29	8.7	9.1	F5	3	..	18996b
3	2789	0.3	-11 41	8.5	9.7	K5	1	..	18996b	53	2959	0.6	-17 9	9.8	11.0	K5	1	..	40313b
4	3073	0.3	-12 35	4.72	4.67	B8	..	R	56,87	54	3059	0.6	-17 27	10.2	11.3	K2	1	..	40313b
5	3092	0.3	-21 9	8.5	9.1	Ao	4	..	40313b	55	3094	0.6	-20 52	8.6	10.0	Mb	1	..	40313b
6	3236	0.3	-54 3	9.7	10.0	Fo	1	..	38797b	56	7183	0.6	-27 42	6.89	7.5	Ao	8	..	39939b
7	1784	0.3	-59 43	9.2	9.2	Ao	5	..	40105b	57	7889	0.6	-28 59	9.8	10.3	Ko	1	..	15600b
8	653	0.3	-74 17	9.7	10.1	F5	2	..	21453b	58	8070	0.6	-29 45	9.3	9.3	Go	3	..	40082b
9	635	0.4	+67 20	7.9	8.5	Go	5	..	38654i	59	6393	0.6	-34 40	7.7	9.5	K5	4	..	40082b
10	1238	0.4	+60 15	8.3	9.1	G5	4	..	37725i	60	6151	0.6	-38 46	10.5	10.7	K2	1	..	39922b
11	1286	0.4	+59 37	9.4	10.4	Ko	1	..	38224i	61	6105	0.6	-39 15	9.5	9.5	F2	2	..	40276b
12	2097	0.4	+31 42	8.4	9.2	G5	1	..	38203i	62	5904	0.6	-42 35	9.6	9.5	G5	1	..	19157b
13	2987	0.4	-10 43	8.1	8.6	F8	6	..	18996b	63	2602	0.6	-58 3	10.0	10.0	Ao	2	..	40105b
14	2957	0.4	-16 28	8.3	9.1	G5	6	..	40313b	64	1856	0.6	-59 0	8.3	8.3	B9	6	..	40105b
15	2818	0.4	-22 30	9.2	10.3	G5	1	..	40303b	65	1800	0.6	-59 22	9.3	9.3	B9	2	..	40105b
16	7883	0.4	-28 58	10.7	10.5	Ao	1	..	15600b	66	1802	0.6	-59 34	8.7	9.8	Ko	3	..	40105b
17	8066	0.4	-30 4	9.35	9.4	F8	2	..	40082b	67	1806	0.6	-59 38	9.6	9.6	A	3	..	40105b
18	6637	0.4	-33 34	10.5	10.5	A	1	..	40082b	68	1801	0.6	-60 6	8.9	9.2	A2	4	..	40105b
19	6638	0.4	-34 6	8.5	9.4	F5	3	..	40082b	69	1418	0.6	-62 52	8.5	9.5	Ko	3	..	40221b
20	6126	0.4	-35 42	9.7	10.4	Ao	1	..	40082b	70	650	0.7	+66 30	7.83	9.01	K5	4	..	38654i
21	6148	0.4	-38 49	9.1	9.6	Ko	1	..	40276b	71	2298	0.7	+18 56	8.3	8.4	A3	3	..	37571i
22	5750	0.4	-40 24	10.5	10.1	A3	2	..	40276b	72	2794	0.7	-12 2	8.7	9.0	Fo	3	..	18996b
23	5574	0.4	-41 56	11.0	9.6	Ao	2	..	19157b	73	3095	0.7	-20 36	9.2	9.7	F8	2	..	40313b
24	3155	0.4	-52 27	8.5	8.6	A	5	R	38797b	74	3096	0.7	-20 59	9.3	10.0	Ko	1	..	40313b
25	2860	0.4	-55 42	8.3	9.1	Ko	2	..	38797b	75	2822	0.7	-22 13	8.7	10.3	Ko	2	..	40303b
26	1791	0.4	-59 43	8.4	8.7	G5	6	..	40105b	76	7931	0.7	-31 39	8.4	9.0	A2	4	..	40082b
27	1440	0.4	-61 26	8.4	8.9	B9	3	..	40221b	77	6153	0.7	-38 38	8.8	9.8	K2	2	..	40276b
28	1415	0.4	-63 2	9.3	9.3	B9	2	..	40221b	78	5894	0.7	-43 44	10.0	9.1	A2	3	..	19157b
29	1228	0.4	-65 12	8.68	9.8	K5	1	..	40221b	79	6156	0.7	-44 21	10.2	9.7	Fo	1	..	40189b
30	1714	0.5	+49 50	8.14	9.14	Ko	2	..	38291i	80	4447	0.7	-51 19	7.8	7.6	B9	9	..	38797b
31	2288	0.5	+40 0	7.62	8.62	Ko	3	..	38241i	81	1809	0.7	-59 40	9.5	9.5	Ao	4	..	40105b
32	2098	0.5	+31 13	8.7	9.7	Ko	1	..	37529i	82	479	0.8	+72 10	7.65	8.65	Ko	5	2,5	37706i
33	2177	0.5	+24 19	8.3	9.4	K2	1	..	38642i	83	2086	0.8	+42 47	8.2	9.3	K2	2	..	38291i
34	2150	0.5	+21 3	9.3	10.3	K	2	..	37571i	84	3075	0.8	-13 5	9.1	10.1	Ko	2	..	40247b
35	2843	0.5	- 9 3	8.3	8.4	A2	7	..	40281b	85	8740	0.8	-24 50	9.6	9.7	Fo	3	..	40303b
36	2990	0.5	- 9 59	8.7	9.2	F8	4	..	18996b	86	7745	0.8	-25 12	9.25	9.5	Ko	3	..	40303b
37	5576	0.5	-41 44	7.9	8.7	K5	3	..	19157b	87	8163	0.8	-30 42	9.3	9.4	F5	3	..	40082b
38	6154	0.5	-44 12	8.9	9.4	K2	2	..	19157b	88	6129	0.8	-36 11	7.9	8.3	A2	6	..	40276b
39	5502	0.5	-47 25	9.1	9.7	K5	1	..	39864b	89	6111	0.8	-39 30	10.8	10.5	K2	1	..	39922b
40	5500	0.5	-47 57	7.1	7.4	G5	7	..	39864b	90	2809	0.8	-56 51	9.1	10.0	Ko	2	2,2	40105b
41	2861	0.5	-55 25	8.2	8.2	B8	8	..	38797b	91	2606	0.8	-57 13	10.3	10.3	Ao	1	..	40105b
42	2601	0.5	-57 17	9.9	10.0	A2	3	3,2	38797b	92	1860	0.8	-58 53	8.9	8.9	B5	4	..	40105b
43	1441	0.5	-61 24	6.34	6.4	B8	8	..	34089b	93	1813	0.8	-59 47	9.7	9.8	A2	2	..	40105b
44	1416	0.5	-62 42	9.2	9.2	Ao	3	..	40221b	94	1620	0.8	-60 49	8.6	9.8	K5	1	..	40221b
45	1142	0.5	-69 8	9.2	10.2	K	1	..	40074b	95	1161	0.8	-64 17	9.2	9.5	F2	2	..	40221b
46	674	0.5	-73 33	9.2	9.3	A2	4	..	21453b	96	903	0.8	-72 7	10.0	10.0	Ao	1	..	39946b
47	1453	0.6	+52 39	9.7	10.7	Ko	1	..	38638i	97	496	0.8	-78 42	9.5	9.8	F2	4	..	21453b
48	1582	0.6	+46 23	8.7	9.5	G5	2	..	38291i	98	558	0.9	+68 56	9.0	9.8	G5	2	..	37706i
49	1959	0.6	+30 23	8.8	9.2	F5	3	..	37529i	99	1249	0.9	+57 45	9.0	9.8	G5	2	..	37725i
50	2179	0.6	+22 0	7.04	8.04	Ko	5	..	37571i	100	1798	0.9	+45 34	7.49	7.83	F2	7	..	38291i

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10^h 0^m.9

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2288	m. 0.9	o 4 3	8.4	8.7	Fo	5	..	19341b	51	5510	m. 1.2	o -47 31	10.2	9.4	Ao	2	..	39864b
2	2798	0.9	- 4 56	9.3	9.3	Ao	3	0,2	40281b	52	4791	1.2	-50 49	6.62	6.9	B9	10	..	38797b
3	7185	0.9	-27 14	9.3	10.3	Ko	2	..	15600b	53	3089	1.2	-54 28	7.9	8.0	B8	6	..	38797b
4	7037	0.9	-32 16	8.8	9.9	K5	2	..	40082b	54	1279	1.2	-63 57	9.2	9.6	F5	2	..	40221b
5	6644	0.9	-33 23	9.5	9.4	F8	2	..	40082b	55	1999	1.3	+28 59	9.6	9.9	F2	2	..	37529i
6	6130	0.9	-35 54	6.28	7.3	Ko	9	..	40276b	56	2291	1.3	+ 3 59	8.0	8.4	F5	7	..	19341b
7	5581	0.9	-41 50	11.9	9.8	A	2	..	39922b	57	7750	1.3	-25 21	9.5	9.7	F8	2	..	40303b
8	5897	0.9	-43 21	10.5	10.2	Ao	1	..	19157b	58	7752	1.3	-25 45	8.8	9.5	F2	3	..	39939b
9	5507	0.9	-47 15	10.5	10.0	A2	1	..	39864b	59	7663	1.3	-26 47	7.7	8.9	K2	4	..	39939b
10	5506	0.9	-47 30	9.4	10.5	K2	1	..	39864b	60	8169	1.3	-30 24	6.74	7.8	Ko	8	..	40082b
11	4449	0.9	-51 34	10.0	9.3	F8	2	..	38797b	61	6132	1.3	-36 8	9.5	10.1	F5	3	..	40276b
12	1816	0.9	-59 23	9.1	8.9	B9	3	..	40105b	62	6283	1.3	-37 18	9.7	10.7	G5	1	..	39922b
13	1818	0.9	-59 43	9.3	10.3	Ko	1	..	40105b	63	1825	1.3	-59 39	9.1	9.8	Ao	2	..	40105b
14	1623	0.9	-60 36	8.5	9.5	Ma	3	..	40221b	64	1239	1.4	+60 28	9.6	10.1	F8	2	..	37725i
15	1622	0.9	-61 2	9.2	9.5	Fo	2	..	40221b	65	1351	1.4	+54 29	9.4	10.4	Ko	1	..	38665i
16	497	0.9	-78 41	9.9	10.2	F	1	..	21453b	66	2313	1.4	+38 47	8.0	9.0	Ko	3	..	38241i
17	327	0.9	-83 11	9.1	9.2	A3	3	..	20869b	67	1961	1.4	+30 1	7.36	7.78	F5	5	..	38203i
18	559	1.0	+69 11	9.7	9.8	A3	2	..	37706i	68	2166	1.4	+11 40	8.7	9.9	K5	2	..	37724i
19	750	1.0	+65 2	9.0	9.1	A2	2	..	38654i	69	2235	1.4	+ 7 23	8.7	9.8	K2	4	..	13402b
20	1583	1.0	+46 35	8.5	9.3	G5	1	..	38291i	70	2258	1.4	+ 6 1	9.7	10.5	G5	2	..	13402b
21	2103	1.0	+38 31	8.2	8.5	F2	5	..	38241i	71	2846	1.4	- 8 27	9.6	9.7	A2	1	..	40281b
22	2106	1.0	+34 51	8.92	9.70	G5	1	..	38241i	72	3101	1.4	-20 27	7.48	9.1	K5	4	..	40313b
23	2314	1.0	+ 2 55	8.3	9.1	G5	6	..	19341b	73	6651	1.4	-33 41	9.1	10.0	G	1	..	40082b
24	2796	1.0	-11 32	8.9	9.9	K	1	..	18996b	74	6134	1.4	-35 29	8.6	9.8	Ko	3	..	40082b
25	3097	1.0	-21 6	9.3	9.5	F8	2	..	40313b	75	6116	1.4	-39 40	9.7	10.1	G5	2	..	39922b
26	7039	1.0	-32 37	10.1	9.9	A3	1	..	40082b	76	5513	1.4	-47 18	8.5	8.2	F5	6	..	39864b
27	5585	1.0	-41 41	6.56	8.0	Ko	9	..	19157b	77	2874	1.4	-55 19	8.6	8.6	Ao	5	..	38797b
28	5582	1.0	-41 49	9.1	9.8	K5	1	..	39922b	78	1871	1.4	-58 11	9.2	9.2	Ao	3	..	40105b
29	5898	1.0	-44 6	8.8	9.4	Ko	2	..	19157b	79	1802	1.5	+45 38	8.3	8.6	Fo	3	..	38291i
30	1864	1.0	-58 44	8.5	8.6	B9	5	..	40105b	80	2000	1.5	+29 44	8.11	8.89	G5	3	..	38203i
31	1447	1.0	-61 45	9.0	8.9	Fo	4	..	40221b	81	2180	1.5	+24 5	9.0	10.0	Ko	1	..	38642i
32	337	1.1	+77 57	8.7	8.7	Ao	4	0,3	37714i	82	2259	1.5	+ 6 6	6.29	7.07	G5	8	..	13402b
33	402	1.1	+74 54	9.12	9.68	G	1	..	37714i	83	2344	1.5	- 1 20	9.3	10.3	Ko	1	..	22970b
34	1166	1.1	+61 26	9.1	10.1	Ko	2	5,2	37725i	84	9007	1.5	-23 28	10.3	10.4	Ko	1	..	40303b
35	2319	1.1	+ 8 26	8.5	8.9	F5	4	..	37724i	85	7899	1.5	-28 38	7.30	8.5	Ko	4	..	39939b
36	2908	1.1	-20 4	8.63	9.7	Ko	2	..	40313b	86	8175	1.5	-30 43	9.2	10.0	K5	1	..	40082b
37	9001	1.1	-23 41	8.3	8.8	Ao	5	..	40303b	87	6135	1.5	-35 18	8.8	10.1	K5	2	..	40082b
38	7040	1.1	-32 54	6.94	7.6	Fo	7	..	40082b	88	5593	1.5	-41 28	8.6	8.6	F8	4	..	19157b
39	6405	1.1	-34 24	6.64	7.5	Ko	7	..	13116b	89	3186	1.5	-53 0	9.0	8.9	A3	4	..	38797b
40	5735	1.1	-45 24	7.24	7.9	Ko	5	..	40189b	90	3272	1.5	-53 11	8.8	10.0	K2	2	..	38797b
41	5785	1.1	-46 27	7.7	8.3	Ko	3	..	13040b	91	2616	1.5	-57 45	10.0	10.3	Fo	2	..	40105b
42	4451	1.1	-51 32	7.4	8.6	Ko	5	..	38797b	92	904	1.5	-72 3	9.8	9.8	Ao	2	..	39946b
43	1865	1.1	-58 11	9.1	9.5	Bp	1	R	40105b	93	655	1.5	-74 42	9.2	10.4	K5	2	..	21453b
44	1166	1.1	-64 15	9.4	9.5	A2	4	..	40221b	94	1239	1.6	+58 45	9.1	10.2	K2	1	..	37725i
45	1387	1.2	+53 42	8.1	8.1	Ao	5	..	38638i	95	1990	1.6	+43 31	9.1	9.9	G5	1	..	38291i
46	2317	1.2	+18 23	7.9	8.5	Go	5	..	37571i	96	2110	1.6	+35 44	4.47	4.61	A5	..	5,10	56.87
47	2206	1.2	+13 17	7.37	7.51	A5	8	..	37724i	97	2963	1.6	-16 45	10.5	10.6	A2	1	..	40313b
48	2315	1.2	+ 3 19	9.3	9.8	F8	3	..	19341b	98	2877	1.6	-55 12	9.98	10.0	F8	1	..	38797b
49	2288	1.2	+ 2 31	8.9	9.4	F8	5	..	19341b	99	2876	1.6	-55 17	8.54	9.1	Ko	2	..	38797b
50	2294	1.2	- 1 0	9.3	10.4	K2	1	..	22970b	100	2825	1.6	-56 24	6.88	7.6	Fo	8	..	38797b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	5624	3.6	-41 14	9.1	9.2	B9	4	1,3	40276b	51	6313	4.0	-37 26	8.8	8.7	A2	6	..	40276b
2	5775	3.6	-45 17	8.98	10.3	K2	1	..	40189b	52	6314	4.0	-37 39	9.7	10.7	G	1	..	40276b
3	5560	3.6	-48 2	8.3	8.9	K0	2	..	13040b	53	6213	4.0	-38 45	10.1	9.9	A0	2	..	40276b
4	3151	3.6	-54 45	8.6	10.3	K0	1	..	38757b	54	4824	4.0	-50 31	8.6	8.9	A5	4	..	38797b
5	2909	3.6	-55 27	9.6	9.7	A2	2	..	38797b	55	3167	4.0	-54 28	8.3	10.0	K5	3	..	38797b
6	1434	3.6	-62 58	9.4	9.5	A2	3	..	40221b	56	1921	4.0	-58 45	8.4	8.9	G5	3	..	40105b
7	2106	3.7	+38 39	8.6	9.4	G5	1	..	38241i	57	504	4.0	-78 40	9.2	9.7	F8	4	..	21453b
8	2206	3.7	+25 2	8.8	9.6	G5	3	..	38642i	58	473	4.0	-79 25	9.3	10.3	K0	3	..	21453b
9	2307	3.7	+19 1	7.11	7.89	G5	7	..	37571i	59	756	4.1	+65 2	8.1	9.1	K0	3	..	38654i
10	2811	3.7	-12 2	8.3	9.4	K2	4	3,2	40247b	60	2087	4.1	+15 51	8.5	9.1	Go	2	..	37724i
11	3094	3.7	-12 33	9.3	9.9	Go	3	..	40247b	61	3003	4.1	-11 3	9.1	10.1	K0	1	..	40281b
12	2851	3.7	-18 16	9.3	10.4	K2	1	..	40313b	62	2997	4.1	-21 16	8.5	9.7	K2	3	..	40313b
13	6156	3.7	-36 50	6.36	7.3	K0	8	..	40276b	63	8801	4.1	-24 29	8.1	8.5	K0	6	..	40303b
14	6310	3.7	-37 52	8.2	8.6	A2	7	..	40276b	64	7787	4.1	-25 11	9.75	9.7	A2	3	..	40303b
15	5561	3.7	-47 46	6.73	6.7	B3	..	2,10	56,127	65	7936	4.1	-28 29	9.2	10.0	Go	2	..	39939b
16	1291	3.8	+59 7	8.5	9.6	K2	3	..	37725i	66	8212	4.1	-30 36	7.85	8.7	Go	5	..	40082b
17	1956	3.8	+43 51	9.0	9.4	F5	1	..	38291i	67	6162	4.1	-37 4	9.5	10.1	K0	1	..	40276b
18	1947	3.8	+33 17	8.4	9.4	K0	2	..	38673i	68	2875	4.1	-57 3	8.6	8.5	F0	4	0,4	38797b
19	1986	3.8	+32 5	10.0	10.6	Go	2	..	37529i	69	2686	4.1	-57 58	8.4	9.1	G5	4	..	40105b
20	1853	3.8	+27 33	8.0	8.3	F0	3	..	38203i	70	896	4.1	-72 30	10.0	10.0	A0	2	..	39946b
21		3.8	+20 49			F5			37571i	71	2116	4.2	+10 5	7.52	8.87	Ma	3	..	37724i
22	2156	3.8	+20 49	6.65	7.07	A2	7	R	37571i	72	2321	4.2	+ 2 52	7.6	8.2	Go	8	..	19341b
23	3082	3.8	- 7 8	9.6	10.2	Go	1	..	40281b	73	2293	4.2	+ 2 26	9.3	9.4	A3	2	..	19341b
24	3000	3.8	-10 24	6.46	6.46	A0	10	..	40281b	74	2618	4.2	+ 0 15	10.7	11.1	F5	2	..	19341b
25	3036	3.8	-15 7	6.16	6.16	A0	9	..	40247b	75	3005	4.2	-10 42	9.6	10.1	F8	2	..	40281b
26	3070	3.8	-18 1	8.9	10.0	K2	2	..	40313b	76	3097	4.2	-12 42	7.9	8.9	K0	4	..	40247b
27	2995	3.8	-21 59	9.3	9.2	A0	4	..	40303b	77	8802	4.2	-24 39	9.2	10.0	K0	1	..	40303b
28	3245	3.8	-52 46	var.	var.	Ma	2	R	38797b	78	6457	4.2	-34 41	var.	var.	F2	1	R	40082b
29	2869	3.8	-56 34	8.6	9.4	F8	4	..	38797b	79	1287	4.2	-64 6	8.4	8.4	B9	5	..	40221b
30	1918	3.8	-58 54	8.8	9.2	B8	2	..	40105b	80	506	4.2	-78 42	9.3	9.8	F8	3	..	21453b
31	1673	3.8	-60 43	7.3	7.4	A0	6	0,8	34089b	81	376	4.3	+76 32	9.1	9.5	F5	2	..	37714i
32	1473	3.8	-61 51	9.0	9.2	B8	4	..	40221b	82	2088	4.3	+16 26	8.3	9.1	G5	2	..	37571i
33	2408	3.9	+ 0 52	9.39	10.17	G5	2	..	19341b	83	2301	4.3	- 1 11	7.8	9.0	K5	6	..	19341b
34	2812	3.9	-12 8	9.1	9.2	A3	6	..	40247b	84	3039	4.3	-14 59	7.46	8.24	G5	7	..	40313b
35	2928	3.9	-19 50	9.1	10.3	K0	1	..	40313b	85	3071	4.3	-17 41	9.3	10.3	K0	2	..	40313b
36	8207	3.9	-30 13	9.45	9.4	F5	3	..	40082b	86	9042	4.3	-23 59	9.0	10.3	K2	1	..	40303b
37	6688	3.9	-33 56	9.5	11.3	K5	1	..	40082b	87	8805	4.3	-24 23	9.6	9.7	F5	2	..	40303b
38	6159	3.9	-36 34	8.5	9.2	A0	5	..	40276b	88	8127	4.3	-29 15	7.8	8.7	F5	4	..	39939b
39	6312	3.9	-38 1	9.1	9.2	A2	5	..	40276b	89	5634	4.3	-41 25	9.5	9.8	K0	2	..	40276b
40	5954	3.9	-42 24	8.8	8.9	F0	4	0,4	19157b	90	3258	4.3	-52 37	9.3	9.3	A0	2	..	38797b
41	6215	3.9	-44 35	9.6	8.9	Go	2	..	40189b	91	3173	4.3	-54 42	10.2	10.3	A2	2	..	38757b
42	3158	3.9	-55 2	10.3	10.3	A	2	..	38797b	92	2693	4.3	-57 53	8.0	8.5	Go	7	..	40105b
43	908	3.9	-72 1	8.6	9.4	G5	2	..	39946b	93	1476	4.3	-61 34	8.4	8.3	A2	3	..	34089b
44	85	4.0	+87 46	8.7	9.7	K0	3	..	37793i	94	1244	4.3	-65 49	9.3	9.3	A0	2	..	40074b
45	155	4.0	+85 47	8.56	9.34	G5	2	..	37546i	95	1028	4.3	-68 34	9.7	9.7	A0	2	..	40297b
46	1721	4.0	+50 0	7.22	7.56	F2	7	..	38291i	96	2321	4.4	+38 53	8.8	9.6	G5	1	..	38241i
47	2168	4.0	+15 43	8.9	9.3	F5	1	..	37571i	97	2322	4.4	+ 2 51	8.6	9.4	G5	5	..	19341b
48	2265	4.0	+ 6 39	6.83	7.83	K0	7	0,8	37724i	98	2859	4.4	- 8 14	9.2	10.2	K0	2	..	40281b
49	6690	4.0	-33 38	8.8	9.4	A2	4	..	40082b	99	8807	4.4	-24 34	8.4	9.4	K0	3	..	40303b
50	6456	4.0	-34 31	7.19	8.0	A2	7	..	13116b	100	7089	4.4	-32 22	8.8	9.4	K0	3	..	40082b

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10^h 35^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2181	35.0	+10 20	8.9	9.5	Go	2	..	38228i	51	2378	35.3	-59 49	8.8	8.5	B8	5	R	21154b
2	2974	35.0	-23 10	9.3	9.5	F2	1	..	13324b	52	1766	35.3	-61 46	9.1	9.1	B9	2	I,3	31521b
3	6699	35.0	-37 18	7.98	8.9	G5	4	..	41389b	53	998	35.3	-73 4	9.5	9.9	F5	3	..	40298b
4	5816	35.0	-49 0	10.0	10.3	F2	2	..	38573b	54	584	35.4	+69 8	8.08	8.16	A3	3	O,3-	37346i
5	3909	35.0	-54 36	7.2	7.3	B8	8	..	40250b	55	2049	35.4	+30 44	8.3	8.8	F8	4	E	37582i
6	2461	35.0	-58 12	9.1	8.9	A0	3	..	40090b	56	2116	35.4	+26 13	7.73	8.73	K0	4	..	38208i
7	420	35.0	-82 51	9.1	10.1	K0	1	..	13465b	57	2242	35.4	+12 36	7.9	9.0	K2	3	..	38228i
8	1427	35.1	+53 30	7.10	7.38	F0	7	..	37717i	58	2335	35.4	+ 6 0	9.0	9.8	G5	2	..	13394b
9	1653	35.1	+46 2	9.0	10.1	K2	1	..	38672i	59	3185	35.4	-13 43	9.3	10.3	K	1	..	19017b
10	2236	35.1	+15 28	8.1	8.2	A2	5	..	38228i	60	2995	35.4	-18 16	8.8	9.9	K2	1	..	13136b
11	2391	35.1	+ 8 16	10.0	10.8	G5	2	..	13394b	61	6025	35.4	-41 54	8.0	8.8	K0	4	..	15319b
12	2343	35.1	+ 7 9	10.0	10.4	F5	3	..	13394b	62	5817	35.4	-48 31	9.6	10.6	K5	1	..	38573b
13	2374	35.1	+ 5 3	8.4	9.4	K0	2	..	13394b	63	3916	35.4	-55 5	6.62	6.3	B8	..	I,9-	28,204
14	2362	35.1	- 0 23	9.20	9.76	Go	3	..	19393b	64	3682	35.4	-55 28	7.2	6.9	B3	..	5,4R	28,204
15	3101	35.1	-15 48	8.9	9.7	G5	1	..	13136b	65	2112	35.4	-61 8	8.9	10.0	A0	3	..	21154b
16	3104	35.1	-16 58	9.6	9.9	F0	2	..	13136b	66	1769	35.4	-61 16	7.3	9.1	K0	7	..	21154b
17	8060	35.1	-26 57	9.8	10.2	F2	2	..	22920b	67	1534	35.4	-63 59	6.7	6.7	B9	6	..	38834b
18	6554	35.1	-39 27	8.6	9.0	K2	3	..	41389b	68	1245	35.4	-68 45	7.9	7.9	A0	8	..	40297b
19	6076	35.1	-47 42	11.5	10.4	A2	1	..	38573b	69	3233	35.5	-12 45	8.3	8.7	F5	5	..	19017b
20	3627	35.1	-57 16	8.3	9.1	B2	3	..	40090b	70	8511	35.5	-29 19	9.8	10.5	K	2	..	22920b
21	2471	35.1	-58 45	7.9	8.0	B9	2	..	43205b	71	8512	35.5	-29 20	9.6	10.5	G	2	..	22920b
22	1764	35.1	-62 2	9.7	9.7	B9	3	I,2	21154b	72	6200	35.5	-40 33	9.5	9.1	G5	2	..	41389b
23	564	35.1	-78 16	9.1	9.5	F5	5	..	21453b	73	6316	35.5	-46 12	9.6	9.6	A0	3	..	38573b
24	678	35.2	+66 14	5.12	6.12	K0	10	..	37346i	74	5322	35.5	-50 36	9.2	9.5	F0	2	..	13780b
25	2367	35.2	+ 4 34	8.40	9.58	K5	3	..	13394b	75	3784	35.5	-52 58	9.3	9.3	B9	3	..	40250b
26	2976	35.2	- 8 31	7.7	8.8	K2	4	..	13379b	76	3618	35.5	-56 48	9.1	9.7	K0	2	..	40090b
27	3230	35.2	-12 53	8.8	8.9	A2	3	..	19017b	77	3637	35.5	-57 37	9.1	9.1	A0	3	..	21154b
28	2976	35.2	-22 56	9.6	9.5	F0	1	..	13324b	78	1383	35.5	-64 27	7.7	7.7	A0	7	..	38834b
29	8508	35.2	-29 17	9.8	10.0	A0	3	..	22920b	79	1323	35.5	-69 48	7.4	7.4	B8	7	..	40297b
30	7529	35.2	-33 6	7.41	8.5	K0	5	..	13048b	80	539	35.5	-79 47	8.4	8.8	F5	3	..	21530b
31	6630	35.2	-36 0	9.2	10.4	K0	1	..	41389b	81	2172	35.6	+35 13	8.8	10.2	Ma	3	..	37582i
32	6572	35.2	-36 55	7.59	8.9	K2	4	..	41389b	82	2078	35.6	+29 5	8.4	9.4	K0	2	E	38208i
33	6703	35.2	-38 1	9.5	9.5	K0	1	..	41389b	83	2364	35.6	+19 23	8.4	9.5	K2	3	..	38647i
34	5318	35.2	-50 47	9.0	9.2	A5	3	..	13780b	84	2422	35.6	- 1 40	9.3	10.1	G5	2	..	19393b
35	3912	35.2	-54 21	7.6	9.1	K5	4	..	40250b	85	3235	35.6	-12 59	8.9	10.0	K2	3	..	19017b
36	2474	35.2	-58 18	6.09	8.5	Mb	..	5,3	28,204	86	6085	35.6	-47 50	10.0	10.2	F5	2	..	38573b
37	1690	35.2	-62 14	9.4	9.4	A0	2	..	38834b	87	5820	35.6	-48 29	8.6	8.6	B9	7	..	13780b
38	997	35.2	-73 4	9.3	9.7	F5	3	..	40298b	88	5326	35.6	-50 10	9.8	9.8	F2	2	..	38573b
39	3120	35.3	- 6 10	8.1	9.2	K2	4	..	13379b	89	5325	35.6	-50 32	9.4	9.5	G5	1	..	13780b
40	3103	35.3	-15 51	8.3	9.1	G5	5	..	13136b	90	2116	35.6	-60 38	9.1	10.0	K0	4	..	21154b
41	2977	35.3	-23 6	8.1	8.2	F0	7	..	13324b	91	1695	35.6	-62 14	8.7	8.8	A2	3	2,4	31521b
42	8348	35.3	-28 47	9.5	9.9	A2	4	..	22920b	92	1539	35.6	-63 9	8.7	8.7	A0	2	..	38834b
43	7526	35.3	-32 13	8.8	8.8	A0	2	..	13048b	93	2183	35.7	+ 9 47	9.7	10.3	G	1	..	13394b
44	6573	35.3	-37 8	10.1	9.8	A5	1	..	41389b	94	2468	35.7	+ 1 2	8.7	9.0	F2	4	..	13378b
45	6403	35.3	-43 2	8.2	9.1	Mb	2	..	43044b	95	2363	35.7	- 0 21	9.5	9.9	F5	3	..	19393b
46	5432	35.3	-49 28	9.8	9.8	F8	2	..	38573b	96	2997	35.7	-19 4	8.9	9.4	F8	1	..	13136b
47	4037	35.3	-53 14	9.4	9.4	B8	2	..	40250b	97	3238	35.7	-21 3	9.1	9.5	Go	1	..	13324b
48	3914	35.3	-54 17	9.7	9.7	A0	2	..	40250b	98	6205	35.7	-40 13	8.54	9.0	K2	2	..	41389b
49	3915	35.3	-55 5	4.37	4.93	Go	..	O,R	28,204	99	6407	35.7	-42 34	9.2	9.0	A2	3	..	15319b
50	3677	35.3	-55 17	9.3	9.4	A2	3	..	40250b	100	6464	35.7	-43 42	9.6	9.9	G5	1	..	15319b

92800

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	8194	37.8	-25 44	9.3	10.8	K5	1	..	22920b	51	3678	38.1	-56 56	9.6	9.7	A2	3	..	40090b
2	8540	37.8	-29 45	9.8	10.0	Go	2	..	22920b	52	2552	38.1	-58 35	9.4	9.4	B9	1	..	40090b
3	8458	37.8	-31 21	9.5	9.2	A5	2	..	13048b	53	2472	38.1	-59 19	9.1	9.1	B9	3	..	40090b
4	7567	37.8	-33 8	7.49	8.5	F2	7	..	13048b	54	2171	38.1	-60 54	8.9	9.4	B5	4	R	21154b
5	5851	37.8	-48 32	9.8	10.4	K2	2	..	38573b	55	1658	38.2	+46 44	8.1	8.6	F8	6	3,5 R	38672i
6	5350	37.8	-50 14	9.04	10.1	K2	1	..	13780b	56	2287	38.2	+13 55	9.5	10.1	G	1	..	38666i
7	3738	37.8	-55 14	10.0	10.0	A	1	..	40250b	57	2385	38.2	+ 4 49	7.61	7.67	A2	6	..	3773ii
8	3737	37.8	-55 49	8.9	9.5	F8	2	..	40250b	58	2351	38.2	+ 2 27	8.5	8.8	F2	3	..	3773ii
9	2546	37.8	-58 15	9.02	9.1	Oa	..	0,1	28,204	59	3119	38.2	-10 32	8.5	8.5	Ao	6	..	19017b
10	2166	37.8	-60 59	8.2	9.1	G5	6	..	21154b	60	3137	38.2	-21 59	8.1	8.6	F2	7	..	40282b
11	1760	37.9	+50 20	7.17	8.17	Ko	5	0,3	38665i	61	6738	38.2	-44 44	8.5	9.0	Fo	3	..	13780b
12	2383	37.9	+ 5 11	8.6	9.0	F5	5	..	3773ii	62	3837	38.2	-52 27	9.1	10.1	K5	1	..	40250b
13	8195	37.9	-25 49	9.8	9.9	G5	3	..	22920b	63	2475	38.2	-59 55	9.5	9.5	Ao	2	..	40090b
14	8086	37.9	-26 59	10.0	10.2	F8	2	..	22920b	64	2176	38.2	-60 33	8.9	8.8	B9	4	0,7	31521b
15	6733	37.9	-44 42	9.4	9.4	Ao	2	..	13780b	65	287	38.2	-84 46	8.2	9.2	Ko	3	..	13459b
16	6122	37.9	-47 53	10.2	10.4	Ao	2	..	38573b	66	1432	38.3	+52 56	8.25	9.25	Ko	3	..	37717i
17	5465	37.9	-49 40	9.6	10.1	Ao	2	..	38573b	67	2041	38.3	+43 0	8.8	9.8	Ko	1	..	38640i
18	3952	37.9	-55 6	9.7	9.7	Ao	2	..	40250b	68	2352	38.3	+ 2 42	8.5	8.8	F2	4	..	3773ii
19	3687	37.9	-57 51	9.4	9.4	Ao	3	..	21154b	69	2473	38.3	+ 1 7	8.6	9.6	Ko	2	..	13378b
20	1803	37.9	-61 14	8.9	9.4	K2	2	..	21154b	70	2986	38.3	- 8 33	9.3	9.7	F5	2	..	13417b
21	1578	37.9	-63 16	8.1	9.2	K2	1	..	38834b	71	9264	38.3	-24 59	10.00	9.9	Go	2	..	22920b
22	2040	38.0	+42 54	7.8	8.8	Ko	3	..	38640i	72	6492	38.3	-43 53	9.1	9.0	F8	2	..	15319b
23	2087	38.0	+29 13	8.1	8.6	F8	3	..	38208i	73	5467	38.3	-50 1	9.6	9.8	A2	3	..	38573b
24	2123	38.0	+26 17	9.3	9.9	Go	2	..	38208i	74	3684	38.3	-57 3	10.0	10.0	Ao	3	..	40090b
25	2253	38.0	+23 43	5.05	5.11	A2	..	0,10	56,87	75	2561	38.3	-58 48	9.2	9.2	B9	2	..	40090b
26	2262	38.0	+22 23	9.0	9.8	G5	1	..	38208i	76	2560	38.3	-59 2	8.4	9.7	Mb	1	..	40090b
27	2366	38.0	- 0 57	8.9	9.7	G5	2	..	19393b	77	2478	38.3	-59 23	9.0	8.5	B8	5	..	40090b
28	2980	38.0	- 3 53	8.3	9.5	K5	2	..	19393b	78	1718	38.3	-62 26	9.2	9.2	Ao	2	0,2	31521b
29	3217	38.0	- 6 21	9.6	10.6	Ko	2	..	13417b	79	1454	38.3	-67 11	8.1	9.5	Ma	3	..	40297b
30	2987	38.0	-22 24	8.8	9.5	Ko	3	..	40282b	80	504	38.4	+72 49	7.18	8.18	Ko	4	..	37554i
31	8384	38.0	-28 59	10.0	11.1	K5	1	..	22920b	81	2178	38.4	+35 17	9.7	10.3	Go	2	..	37582i
32	6359	38.0	-46 29	10.0	9.3	F8	1	..	13780b	82	1923	38.4	+27 55	8.8	9.3	F8	4	..	38208i
33	5353	38.0	-51 2	9.4	9.8	F2	2	..	38573b	83	1929	38.4	+27 13	9.7	10.5	G5	1	..	38208i
34	4068	38.0	-53 12	9.2	10.6	Mb	3	..	37600b	84	2368	38.4	+18 51	6.70	7.70	Ko	6	0,6	38647i
35	2548	38.0	-58 36	8.9	9.7	Ko	1	..	40090b	85	2386	38.4	+ 4 46	8.16	8.72	Go	4	..	3773ii
36	2468	38.0	-59 10	8.6	9.7	K2	1	..	40090b	86	2983	38.4	- 3 22	8.8	8.8	Ao	5	..	19393b
37	1583	38.0	-63 35	7.0	7.0	B9	7	1,6	31521b	87	2989	38.4	-22 45	10.5	11.0	Ko	1	..	40282b
38	350	38.1	+80 49	9.4	10.2	G5	1	..	37465i	88	8200	38.4	-25 21	8.1	9.3	Ko	4	..	22920b
39	617	38.1	+67 56	6.32	..	Na	4	R	37554i	89	8094	38.4	-27 6	9.2	9.9	A2	4	..	22920b
40	1805	38.1	+47 42	8.6	8.7	A5	4	..	38308i	90	6675	38.4	-35 59	8.9	10.4	Ko	1	..	41389b
41	2384	38.1	+ 5 16	5.99	6.99	Ko	9	..	3773ii	91	5360	38.4	-50 13	9.14	9.8	K2	2	..	38573b
42	3204	38.1	- 3 2	9.2	9.7	F8	3	..	19393b	92	4974	38.4	-51 26	8.6	9.2	Ao	5	..	40250b
43	3201	38.1	-14 13	8.7	9.8	K2	3	..	19017b	93	3687	38.4	-56 36	9.7	9.7	Ao	1	..	40090b
44	2988	38.1	-23 2	6.88	7.9	Ko	8	..	40282b	94	2567	38.4	-58 37	8.7	9.1	B	2	R	40090b
45	7572	38.1	-32 12	5.73	6.1	Ao	..	..	56,128	95	2564	38.4	-58 59	8.9	9.4	Ao	2	..	40090b
46	6058	38.1	-41 23	8.0	9.6	K5	1	..	15319b	96	1720	38.4	-62 59	7.6	7.7	A5	7	3,6	31521b
47	6361	38.1	-46 42	7.3	8.5	Ko	5	..	13780b	97	1456	38.4	-67 23	8.9	9.0	A2	5	..	40297b
48	5354	38.1	-50 36	10.0	9.6	Ao	3	..	38573b	98	1342	38.4	-69 10	9.7	9.7	Ao	1	..	40297b
49	3833	38.1	-52 59	8.7	8.6	B8	5	..	40250b	99	1168	38.4	-71 7	8.8	10.0	K5	2	..	40298b
50	3676	38.1	-56 29	8.2	8.2	Bo	7	..	40090b	100	760	38.4	-73 30	8.6	8.6	Ao	4	..	40298b

THE HENRY DRAPER CATALOGUE.

92900

10^h 38^m.5

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	797	38.5	+65 26	8.5	9.0	F8	5	..	37346i	51	1817	38.8	-61 41	8.4	9.5	K5	3	..	21154b
2	1323	38.5	+59 14	9.0	10.0	Ko	2	..	37716i	52	1267	38.8	-69 2	8.9	10.3	Ma	1	..	40297b
3	2363	38.5	+40 26	8.3	8.9	Go	3	..	3864oi	53	1986	38.9	+49 4	8.00	9.00	Ko	3	0,3	38672i
4	2340	38.5	+ 6 30	9.3	9.9	Go	2	..	13394b	54	2144	38.9	+42 15	7.70	8.88	K5	3	..	3864oi
5	7643	38.5	-28 1	8.6	9.3	Fo	4	..	2292ob	55	2406	38.9	+ 3 45	7.9	9.1	K5	1	..	3773ii
6	6931	38.5	-34 29	7.7	8.9	Ko	5	..	13048b	56	3133	38.9	- 5 33	8.3	9.3	Ko	4	..	13379b
7	6929	38.5	-35 6	8.5	9.3	Ko	2	0,2	41327b	57	3251	38.9	-12 36	10.2	10.3	A2	1	..	19017b
8	4074	38.5	-54 1	7.9	8.0	Ao	7	..	40250b	58	3204	38.9	-13 21	9.6	10.7	K2	1	..	19017b
9	2570	38.5	-58 39	9.0	9.1	A2	2	R	4009ob	59	3169	38.9	-14 16	8.9	10.1	K5	3	..	19017b
10	2183	38.5	-60 24	9.0	9.1	B8	3	R	21154b	60	2993	38.9	-22 49	9.6	10.7	K5	1	..	40282b
11	1812	38.5	-61 23	9.0	9.1	B8	5	..	21154b	61	6626	38.9	-36 46	9.1	9.2	Ao	3	..	41389b
12	1813	38.5	-61 43	9.7	9.7	Ao	2	..	21154b	62	4079	38.9	-53 52	9.8	10.2	F5	2	..	3760ob
13	1811	38.5	-61 52	9.5	9.5	B8	3	..	21154b	63	3755	38.9	-56 2	8.4	10.0	K5	1	..	40250b
14	1008	38.5	-72 46	7.8	9.2	Ma	3	..	40298b	64	2581	38.9	-58 42	5.44	5.27	B3P	..	R	28,205
15	798	38.6	+65 36	8.1	9.1	Ko	3	..	37346i	65	2192	38.9	-60 42	9.2	9.2	B9	3	..	21154b
16	1280	38.6	+58 27	9.4	9.5	A5	3	..	37716i	66	1592	38.9	-63 53	6.9	6.9	B9	4	..	38834b
17	1763	38.6	+49 58	7.62	8.62	Ko	3	0,3	38672i	67	1459	38.9	-67 22	8.9	8.9	B9	6	..	40297b
18	2174	38.6	+38 2	8.8	9.4	Go	4	..	37582i	68	1098	38.9	-71 46	8.8	8.8	Ao	5	..	40298b
19	3008	38.6	-18 20	8.1	8.9	G5	3	..	13130b	69	501	39.0	+72 29	9.1	10.1	K	1	..	37554i
20	2990	38.6	-22 18	9.8	9.8	Ko	1	..	40282b	70	922	39.0	+63 7	9.4	10.0	G	2	..	37716i
21	8099	38.6	-26 47	8.2	9.9	G5	4	..	2292ob	71	2342	39.0	+ 6 25	9.3	9.7	F5	2	..	13394b
22	8098	38.6	-26 48	11.2	10.8	A3	3	R	2292ob	72	3205	39.0	-14 0	9.6	10.4	G5	2	..	19017b
23	8391	38.6	-28 52	9.8	10.8	F5	2	..	2292ob	73	8662	39.0	-30 20	7.37	8.8	K5	3	..	13048b
24	4075	38.6	-53 9	9.5	10.3	G5	1	..	3760oi	74	8664	39.0	-30 34	8.2	8.2	A2	5	..	13048b
25	3962	38.6	-54 54	8.5	9.1	Ko	3	..	40250b	75	8667	39.0	-30 41	8.2	8.8	Ko	2	..	13048b
26	3749	38.6	-55 57	8.5	9.7	K5	1	..	40250b	76	6501	39.0	-44 5	10.0	9.7	Ao	2	..	15319b
27	3696	38.6	-57 30	9.5	9.5	Ao	2	..	21154b	77	3850	39.0	-52 17	9.5	9.6	A2	3	..	40250b
28	2574	38.6	-58 8	8.8	9.1	Fo	4	..	21154b	78	3845	39.0	-52 22	9.0	9.5	Ao	4	..	40250b
29	3207	38.7	- 2 40	8.8	9.8	Ko	3	..	19393b	79	4080	39.0	-53 43	8.0	8.8	F5	5	..	40250b
30	3132	38.7	- 6 4	9.6	10.2	G	2	R	13379b	80	4081	39.0	-54 6	9.0	10.0	Ko	3	..	3760ob
31	9265	38.7	-24 13	9.8	9.9	F8	3	..	40282b	81	3967	39.0	-54 29	8.6	9.5	K5	2	..	40250b
32	8101	38.7	-26 17	8.1	9.0	Ko	6	..	2292ob	82	3700	39.0	-57 47	9.0	8.8	Bo	4	..	4009ob
33	8392	38.7	-29 2	9.0	11.1	K5	4	..	2292ob	83	2508	39.0	-59 56	9.0	9.9	K2	1	..	4009ob
34	8467	38.7	-31 14	6.64	7.6	Ko	7	..	13048b	84	2195	39.0	-60 36	9.0	8.8	Ao	4	..	21154b
35	6681	38.7	-35 12	9.1	9.5	F8	1	..	41375b	85	2193	39.0	-60 50	9.0	9.2	B8	2	..	21154b
36	3696	38.7	-56 21	7.2	7.1	B2	5	..	43205b	86	2936	39.1	- 5 1	9.3	9.6	Fo	2	..	13379b
37	2575	38.7	-59 4	9.1	8.9	B8	3	..	4009ob	87	6693	39.1	-38 32	7.08	8.1	Go	7	..	41389b
38	1589	38.7	-63 57	5.20	5.03	B3	..	0,9	28,204	88	1821	39.1	-61 23	9.0	10.0	K5	1	..	21154b
39	2375	38.8	+38 53	8.8	8.8	Ao	4	E	37582i	89	1439	39.1	-64 10	7.5	7.5	Ao	5	..	38834b
40	2022	38.8	+33 9	7.62	7.76	A5	6	..	37582i	90	2119	39.2	+40 54	8.05	8.83	G5	4	..	3864oi
41	2514	38.8	+20 17	6.10	6.18	A3	8	0,9	38647i	91	2230	39.2	+21 14	8.8	9.4	Go	2	..	38208i
42	3208	38.8	- 2 31	9.1	9.7	Go	3	..	19393b	92	2273	39.2	+10 53	7.6	8.7	K2	5	..	38228i
43	2992	38.8	-22 36	8.7	9.2	K2	3	..	40282b	93	2195	39.2	+ 9 54	9.7	10.3	Go	2	..	13394b
44	9268	38.8	-24 34	8.4	9.6	G5	4	..	2292ob	94	2399	39.2	+ 9 25	9.7	10.8	K2	2	..	13394b
45	8394	38.8	-28 33	7.82	9.0	Ko	7	..	2292ob	95	3102	39.2	- 8 6	9.1	9.7	G	1	..	13417b
46	8469	38.8	-31 37	7.10	7.4	Ao	8	..	13048b	96	3252	39.2	-12 16	9.1	10.3	K5	1	..	19017b
47	6624	38.8	-36 16	8.8	9.5	G5	1	..	41389b	97	3170	39.2	-14 39	9.1	9.6	F8	3	..	19017b
48	6136	38.8	-48 6	7.9	8.1	B8	5	..	1378ob	98	9497	39.2	-23 47	9.6	10.4	Ko	1	..	40282b
49	5861	38.8	-48 32	7.1	8.9	K5	5	..	1378ob	99	5870	39.2	-48 56	8.5	9.5	Ko	2	..	1378ob
50	5367	38.8	-50 10	9.49	10.1	Ko	2	..	38573b	100	3707	39.2	-57 12	9.5	9.5	B9	2	..	4009ob

1919AnHar...94...1C

THE HENRY DRAPER CATALOGUE.

93100

10^h 40^m.0

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2379	40.0	+ 4 16	8.0	9.1	K2	2	..	3773i	51	2117	40.3	+36 6	9.7	10.3	G	2	..	37582i
2	2408	40.0	+ 3 0	6.57	7.64	K2	9	..	3773i	52	2180	40.3	+31 13	5.37	5.35	B9	..	..	56,87
3	3145	40.0	-22 1	9.3	9.5	F5	4	..	40282b	53	2477	40.3	+ 1 32	7.9	8.9	K0	4	..	3773i
4	2997	40.0	-22 26	9.3	9.5	F5	3	..	40282b	54	8115	40.3	-26 59	9.3	10.8	G5	2	..	2292ob
5	6644	40.0	-36 24	6.78	7.3	F8	8	..	41389b	55	6651	40.3	-36 45	8.5	9.5	K0	2	..	41389b
6	6351	40.0	-45 41	8.5	9.1	Go	3	0,2	1378ob	56	4095	40.3	-53 46	8.7	9.1	A2	3	..	4025ob
7	4990	40.0	-51 19	9.1	9.6	A2	4	0,2	3760ob	57	3992	40.3	-54 14	10.3	10.3	A0	2	..	3760ob
8	4991	40.0	-51 40	8.9	9.2	F0	4	..	4025ob	58	3728	40.3	-57 5	8.9	9.1	F0	4	..	4009ob
9	3863	40.0	-52 34	8.8	10.1	Mb	4	0,1	3760ob	59	3741	40.3	-57 52	8.5	8.5	A0	2	2,7	43205b
10	3990	40.0	-54 14	9.1	9.7	Go	3	..	3760ob	60		40.3	-59 3			B			
11	3988	40.0	-54 23	8.9	9.4	G5	2	..	4025ob	61	2631	40.3	-59 3	7.2	7.6	A3	7	R	4009ob
12	3987	40.0	-54 37	10.0	10.0	A0	2	..	3760ob	62	2561	40.3	-59 12	8.4	8.8	Oc	..	0,4	28,205
13	3731	40.0	-57 10	8.6	8.8	B5	4	..	4009ob	63	1619	40.3	-63 44	6.14	6.2	B3	..	0,8	28,205
14	2612	40.0	-58 35	8.4	8.2	A3	6	..	21154b	64	1109	40.3	-71 40	7.5	8.0	F8	8	..	40298b
15	1731	40.0	-63 8	7.7	8.9	K5	2	5,2	31521b	65	727	40.3	-74 57	6.85	7.0	B9	8	..	40298b
16	1106	40.0	-71 14	8.6	9.4	G5	5	..	40298b	66	289	40.3	-84 47	9.1	10.2	K2	3	..	22238b
17	1105	40.0	-71 18	8.8	10.0	K5	3	..	40298b	67	2366	40.4	+40 1	8.2	8.5	F2	3	..	38640i
18	427	40.0	-82 36	9.0	9.8	G5	2	..	13465b	68	2118	40.4	+36 13	9.7	10.5	G5	2	..	37582i
19	2476	40.1	+ 1 2	8.9	9.9	K0	1	..	13378b	69	2409	40.4	+ 8 3	7.9	8.9	K0	5	..	38228i
20	3104	40.1	- 7 30	9.3	9.7	F5	2	..	13417b	70	3121	40.4	-16 54	9.1	9.5	F5	2	..	1313ob
21	8112	40.1	-26 54	10.3	11.1	K2	1	..	2292ob	71	8571	40.4	-29 9	7.80	9.1	K2	7	..	2292ob
22	6769	40.1	-37 37	7.73	8.4	F8	5	..	41389b	72	6094	40.4	-41 54	8.8	9.1	A2	3	..	15319b
23	5493	40.1	-49 13	9.1	9.6	A0	3	..	1378ob	73	6522	40.4	-43 26	9.1	9.4	G5	2	..	15319b
24	5492	40.1	-49 19	7.9	9.2	F0	4	..	1378ob	74	3996	40.4	-54 44	9.1	10.3	K5	2	..	3760ob
25	3864	40.1	-52 31	8.6	9.5	K0	6	2,4	3760ob	75	2229	40.4	-60 49	9.1	9.7	A0	2	..	21154b
26	4094	40.1	-54 7	8.3	9.1	G5	3	..	4025ob	76	1390	40.4	-67 6	8.3	9.5	K5	2	..	40297b
27	3778	40.1	-55 16	7.46	8.8	K0	5	..	4025ob	77	799	40.5	+65 23	9.4	10.2	G5	2	..	37346i
28	2617	40.1	-59 2		8.5	B				78	2199	40.5	+10 33	8.9	10.1	K5	2	..	13394b
29	2618	40.1	-59 2	7.07	8.5	B	8	R	4009ob	79	2355	40.5	+ 7 19	10.0	10.0	A0	3	..	13394b
30	2556	40.1	-59 21	8.9	8.3	B5	4	..	4009ob	80	2347	40.5	+ 5 54	8.1	8.2	A5	6	..	3773i
31	2548	40.1	-59 36	6.71	6.3	Ocp	..	R	28,205	81	2370	40.5	- 0 57	8.7	9.3	G	2	..	19393b
32	1281	40.2	+57 53	6.49	7.84	Ma	7	0,7	37717i	82	3105	40.5	- 8 5	8.3	9.4	K2	4	..	13417b
33	1408	40.2	+55 42	8.1	8.9	G5	3	..	37717i	83	2937	40.5	-11 20	9.3	9.3	A0	2	..	19017b
34	1394	40.2	+54 20	8.7	9.1	F5	2	..	37717i	84	3017	40.5	-19 10	8.7	9.5	Go	1	..	13136b
35	2024	40.2	+33 8	7.52	7.80	F0	6	..	37582i	85	7663	40.5	-27 48	9.5	9.9	A0	4	..	2292ob
36	2073	40.2	+32 36	8.8	9.4	Go	2	..	37582i	86	8694	40.5	-30 49	8.0	9.2	K5	2	..	13048b
37	1925	40.2	+28 30	8.8	9.2	F5	2	..	38208i	87	3734	40.5	-56 20	10.0	10.0	A0	1	..	4009ob
38	2408	40.2	+ 8 31	8.6	9.6	K0	2	..	38228i	88	3731	40.5	-56 32	10.2	10.2	A	1	..	4009ob
39	2354	40.2	+ 7 29	8.3	8.8	F8	4	..	38228i	89	3748	40.5	-57 53	8.6	10.0	K2	2	3,1	4009ob
40	9505	40.2	-24 4	9.3	10.4	K0	2	..	40282b	90	2637	40.5	-58 46	8.9	9.1	B	2	R	21154b
41	9282	40.2	-24 35	9.6	9.9	G5	2	..	2292ob	91	2577	40.5	-59 22	8.5	8.5	A0	4	..	4009ob
42	6949	40.2	-34 50	8.0	8.0	A5	6	..	41375b	92	2575	40.5	-59 41	8.8	8.8	A0	3	..	21154b
43	4996	40.2	-51 26	9.4	10.4	K2	2	..	3760ob	93	2232	40.5	-60 42	8.9	9.7	A0	2	..	21154b
44	3991	40.2	-55 2	8.42	9.4	K5	3	..	4025ob	94	1623	40.5	-63 26	5.09	4.92	B3	..	..	28,205
45	3724	40.2	-56 51	10.3	10.2	B5	2	..	4009ob	95	2125	40.6	+26 6	8.7	9.7	K0	2	..	38208i
46	2555	40.2	-59 34	9.0	8.8	B	5	R	4009ob	96	3227	40.6	- 7 3	8.7	8.7	A0	6	..	13417b
47	1452	40.2	-64 57	7.9	8.9	K0	2	..	38834b	97	6638	40.6	-39 44	9.1	8.7	A0	4	..	41327b
48	502	40.3	+72 11	8.1	8.5	F5	4	..	37554i	98	6524	40.6	-43 20	9.0	8.8	A2	6	..	15319b
49	1287	40.3	+59 46	9.11	9.89	G5	2	..	37716i	99	5390	40.6	-50 22	7.9	8.6	G5	4	..	1378ob
50	1410	40.3	+55 21	8.9	9.9	K	1	..	37717i	100	3874	40.6	-52 39	9.8	9.8	A0	4	..	3760ob

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	4121	41.9	-53 28	9.7	9.7	Ao	2	..	4025ob	51	2442	42.2	- 1 21	8.4	8.8	F5	3	..	22977b
2	2681	41.9	-58 9	9.4	9.4	Ao	3	..	4009ob	52	6114	42.2	-42 6	7.3	8.2	G5	7	..	15319b
3	2680	41.9	-58 53	8.0	7.3	Bo	3	..	43205b	53	6484	42.2	-42 40	6.57	7.4	A3	7	..	43044b
4	2260	41.9	-60 22	9.4	10.2	G5	1	..	21154b	54	4125	42.2	-53 43	9.9	10.2	F2	3	..	3760ob
5	1637	41.9	-63 42	8.6	9.2	Go	2	..	38834b	55	2690	42.2	-59 2	9.9	9.9	A	1	R	4009ob
6	2272	42.0	+22 26	8.8	9.8	Ko	2	..	37504i	56	627	42.3	+70 44	8.7	9.2	F8	4	..	37554i
7	2204	42.0	+ 9 47	9.27	9.83	Go	2	..	13394b	57	2123	42.3	+41 37	6.85	6.93	A3	8	..	3864oi
8	3181	42.0	-15 12	7.01	7.01	Ao	8	..	1313ob	58	2371	42.3	+40 17	7.02	8.02	Ko	5	..	3864oi
9	9306	42.0	-25 1	7.53	8.9	K5	6	..	2292ob	59	2373	42.3	+19 30	8.0	8.8	G5	2	..	37504i
10	8237	42.0	-25 32	6.86	7.4	Ko	8	..	2292ob	60	2412	42.3	+ 3 2	8.1	9.3	K5	4	..	37731i
11	8238	42.0	-25 52	7.8	8.4	K5	5	..	2292ob	61	2374	42.3	- 1 12	8.5	9.5	Ko	4	..	22977b
12	6112	42.0	-42 8	7.1	7.8	F2	4	..	43044b	62	3000	42.3	- 8 30	9.3	9.9	Go	2	..	13417b
13	6179	42.0	-47 36	8.5	9.9	Ko	2	..	9453b	63	3127	42.3	-16 53	8.7	8.8	A5	2	..	1313ob
14	5021	42.0	-51 24	9.2	9.6	G5	4	..	3760ob	64	3269	42.3	-20 59	8.7	9.5	Fo	6	..	40282b
15	5019	42.0	-51 28	9.6	9.6	A5	3	..	3760ob	65	7635	42.3	-32 53	8.2	8.2	B9	6	..	13048b
16	5020	42.0	-51 42	9.0	9.3	Ao	7	..	3760ob	66	6729	42.3	-35 34	7.9	9.5	K5	1	..	41375b
17	4122	42.0	-53 38	9.9	10.0	A3	3	R	3760ob	67	3828	42.3	-55 25	9.6	10.2	Go	2	..	3760ob
18	4021	42.0	-54 40	9.4	9.7	Fo	4	..	3760ob	68	3783	42.3	-56 18	9.1	9.1	B8	2	..	4009ob
19	3770	42.0	-56 21	9.4	9.4	B9	2	..	4009ob	69	2692	42.3	-58 48	7.9	7.9	A5	8	3,I	21154b
20	2683	42.0	-58 58	7.9	9.4	Ma	4	..	21154b	70	1283	42.4	+57 51	7.8	8.4	Go	5	..	37717i
21	2659	42.0	-59 40	8.8	8.8	Ao	7	0,4	21154b	71	1866	42.4	+45 21	7.8	8.8	Ko	4	..	38308i
22	2263	42.0	-60 36	9.7	9.7	B9	2	..	21154b	72	2299	42.4	+24 48	9.21	9.99	G5	2	..	38208i
23	2262	42.0	-60 48	9.4	9.4	Ao	4	..	21154b	73	2413	42.4	+ 3 20	9.3	9.9	Go	4	..	13378b
24	1469	42.0	-64 11	7.7	7.8	A2	3	..	38834b	74	9532	42.4	-24 2	7.8	8.4	A5	7	..	40282b
25	1490	42.0	-67 18	9.4	9.5	A2	2	..	40075b	75	6975	42.4	-34 8	9.1	9.4	Ao	3	..	13048b
26	102	42.0	-88 11	9.4	10.5	K2	2	..	22238b	76	6121	42.4	-41 24	9.2	8.5	A5	5	..	15319b
27	803	42.1	+65 40	6.24	6.22	B9	10	..	37346i	77	5412	42.4	-50 32	7.8	8.6	Ao	7	..	1378ob
28	1283	42.1	+37 51	7.9	8.5	Go	5	..	37717i	78	3896	42.4	-53 2	9.3	10.1	G5	5	..	3760ob
29	2160	42.1	+34 8	9.0	10.0	Ko	2	..	37582i	79	3899	42.4	-53 6	9.3	10.1	G5	3	..	3760ob
30	2274	42.1	+17 27	8.7	9.3	Go	2	..	38647i	80	4127	42.4	-53 18	10.0	10.0	Ao	4	..	3760ob
31	2358	42.1	+ 6 52	7.01	7.07	A2	8	..	37731i	81	3787	42.4	-56 18	9.7	9.7	Ao	1	..	4009ob
32	2941	42.1	-11 29	8.7	9.0	F2	2	..	13409b	82	3783	42.4	-57 57	9.7	9.7	Ao	2	..	4009ob
33	3101	42.1	-19 21	9.2	9.6	F8	1	..	13136b	83	2268	42.4	-60 45	9.3	9.1	B3	3	..	21154b
34	6676	42.1	-37 7	9.2	9.8	F5	1	..	41327b	84	1865	42.4	-61 25	7.6	6.9	B5	4	..	43205b
35	6288	42.1	-40 49	8.5	9.0	G5	5	..	41327b	85	1746	42.4	-62 19	8.6	9.1	F8	3	0,3-	38834b
36	6113	42.1	-41 35	8.9	8.8	A2	5	..	15319b	86	467	42.4	-81 31	8.27	8.5	F5	4	..	13465b
37	6432	42.1	-47 6	9.6	9.6	G5	1	..	9453b	87	2272	42.5	+23 52	8.8	9.3	F8	2	..	38208i
38	6180	42.1	-47 36	9.4	10.6	Mb	..	..	M	88	2443	42.5	- 1 34	8.7	9.8	K2	3	..	22977b
39	5906	42.1	-48 52	9.2	9.8	G5	6	..	9453b	89	3214	42.5	-13 27	8.2	9.0	G5	6	..	19017b
40	5408	42.1	-50 40	8.5	9.0	Ao	4	E	1378ob	90	3006	42.5	-22 26	9.8	10.2	Go	1	..	40282b
41	4022	42.1	-54 42	9.0	10.3	K5	1	..	3760ob	91	7680	42.5	-27 14	8.4	9.3	G5	2	..	41399b
42	3773	42.1	-56 14	9.1	9.1	B8	4	..	4009ob	92	7639	42.5	-32 36	8.8	9.4	Ao	2	..	41375b
43	3772	42.1	-56 26	8.9	8.8	Ao	4	..	4009ob	93	6682	42.5	-36 49	8.3	8.9	Fo	4	..	41327b
44	3777	42.1	-57 1	var.	var.	Ko	2	R	4009ob	94	6553	42.5	-43 45	7.8	8.4	Ao	4	..	43044b
45	2265	42.1	-61 5	8.6	8.3	B5	5	4,8	31521b	95	6187	42.5	-47 12	9.1	9.1	Go	2	..	9453b
46	1857	42.1	-61 58	9.4	9.4	B8	4	..	21154b	96	6186	42.5	-47 20	9.1	9.1	F5	3	..	9453b
47	1743	42.1	-62 21	9.4	9.2	B3	2	..	21154b	97	5913	42.5	-48 54	2.84	3.62	G5	..	R	28,205
48	2120	42.2	+37 26	9.7	10.3	Go	2	..	37582i	98	3901	42.5	-52 20	9.4	9.5	A5	3	..	37662b
49	2185	42.2	+35 9	9.3	10.1	G5	2	..	37582i	99	3900	42.5	-52 44	8.7	9.6	Ko	2	..	37662b
50	2408	42.2	+ 8 48	8.9	10.0	K2	1	..	38228i	100	2695	42.5	-58 55	8.4	8.5	B9	6	..	21154b

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H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	638	43.1	-76 43	9.1	10.1	Ko	3	..	21453b	51	1938	43.6	+27 21	8.8	9.8	Ko	1	..	38208i
2	2418	43.2	+ 3 1	8.7	9.3	G	3	..	13378b	52	2240	43.6	+21 26	8.7	9.5	G5	3	..	37504i
3	2950	43.2	-11 36	8.8	9.3	F8	2	..	13409b	53	2520	43.6	+20 20	9.7	10.3	Go	2	..	37504i
4	7257	43.2	-33 28	9.4	10.0	F2	1	..	41375b	54	2418	43.6	+ 8 45	8.1	9.1	Ko	2	..	38228i
5	6987	43.2	-34 30	8.8	9.2	F2	2	..	41375b	55	2446	43.6	- 1 26	6.19	7.54	Ma	7	..	37731i
6	6674	43.2	-39 13	8.5	9.4	Ko	3	..	41327b	56	3157	43.6	-21 56	9.3	9.8	F5	3	..	40282b
7	1655	43.2	-63 52	5.10	4.98	B5	..	2.9	28,205	57	8536	43.6	-31 10	5.90	5.8	Ao	..	..	56,128
8	1412	43.2	-66 18	9.2	9.2	Ao	2	..	38834b	58	6815	43.6	-38 6	8.1	9.5	K5	2	..	41327b
9	1203	43.3	+61 5	9.4	9.4	A	2	..	37716i	59	5050	43.6	-51 38	10.5	9.8	Ao	3	..	37600b
10	1474	43.3	+55 49	9.0	9.5	F8	3	..	37717i	60	5051	43.6	-52 0	9.1	9.0	B8	7	..	37600b
11	2039	43.3	+32 57	8.2	9.0	G5	4	..	37582i	61	4048	43.6	-54 45	9.4	10.6	K5	1	..	37600b
12	2365	43.3	+ 7 32	8.5	9.7	K5	2	..	19611b	62	3821	43.6	-56 56	6.28	7.9	K5	2	..	43205b
13	2366	43.3	+ 6 49	9.7	10.2	F8	2	..	19611b	63	2048	43.7	+43 36	7.8	8.8	Ko	4	..	38640i
14	2419	43.3	+ 2 55	8.7	9.0	F2	4	..	13378b	64	2148	43.7	+41 54	7.8	8.4	Go	4	..	38640i
15	3218	43.3	-14 6	9.6	9.6	Ao	4	..	13409b	65	2359	43.7	+ 1 56	8.7	9.1	F5	2	..	13378b
16	6497	43.3	-42 56	9.1	9.9	K2	1	..	15319b	66	3116	43.7	- 7 46	9.1	10.2	K2	2	..	13417b
17	3844	43.3	-55 23	9.4	10.0	Go	3	..	37600b	67	5056	43.7	-51 28	10.0	9.6	A2	6	..	37600b
18	3812	43.3	-56 38	9.1	9.1	B5	4	..	40090b	68	5053	43.7	-51 43	6.95	7.9	Ao	5	..	42159b
19	3810	43.3	-56 48	7.2	7.3	Ao	4	R	43205b	69	4145	43.7	-53 28	8.7	9.7	K5	3	..	40250b
20	2692	43.3	-59 16	9.2	9.1	B5	3	..	21154b	70	3823	43.7	-56 25	10.2	10.2	A	1	..	40090b
21	2693	43.3	-60 3	8.48	8.3	B9	4	0.6	31521b	71	1204	43.8	+61 8	7.9	8.7	G5	4	..	37716i
22	425	43.4	+75 34	8.82	9.24	F5	4	..	37742i	72	2125	43.8	+37 9	10.9	11.7	G5	2	..	37582i
23	630	43.4	+70 8	8.9	9.7	G5	2	..	37554i	73	3117	43.8	- 8 13	9.3	10.4	K2	3	..	13417b
24	2124	43.4	+37 42	9.2	9.6	F5	3	..	37582i	74	9330	43.8	-24 38	9.5	9.8	F8	4	..	40282b
25	2408	43.4	+17 47	9.0	9.5	F8	2	..	37504i	75	6310	43.8	-40 46	9.2	9.6	Ko	2	..	41327b
26	8249	43.4	-25 53	8.1	8.3	Go	5	..	41399b	76	5547	43.8	-49 51	9.0	9.6	Ko	4	0.1	37600b
27	7260	43.4	-34 5	8.6	10.3	K5	1	..	41375b	77	5058	43.8	-51 48	9.0	9.2	A5	6	..	37600b
28	6745	43.4	-38 58	9.7	9.6	Ao	2	..	41327b	78	3919	43.8	-52 35	9.2	10.3	K2	4	..	37600b
29	3915	43.4	-52 50	9.8	11.2	Mb	2	..	37600b	79	3855	43.8	-55 8	9.4	10.8	Mb	1	..	37600b
30	4045	43.4	-54 10	8.3	8.8	Fo	6	..	40250b	80	3856	43.8	-55 27	8.0	9.1	Ko	7	0.3	37600b
31	3847	43.4	-55 16	9.55	9.4	B	4	..	37600b	81	3829	43.8	-56 58	8.9	10.0	K5	1	..	40090b
32	2696	43.4	-59 34	8.8	9.1	Bo	5	R	21154b	82	2715	43.8	-59 3	8.9	8.8	Ao	4	..	40090b
33	1504	43.4	-67 44	9.1	9.7	Go	1	..	40075b	83	2712	43.8	-60 5	8.24	8.0	B2	6	0.7	31521b
34	1123	43.4	-71 38	7.7	8.8	K2	5	..	40298b	84	1505	43.8	-65 23	7.6	7.4	B3	6	..	38834b
35	402	43.5	+76 32	7.14	7.22	A3	7	..	37465i	85	1292	43.9	+57 5	9.4	9.7	Fo	2	..	37716i
36	2072	43.5	+29 57	6.29	7.29	Ko	8	..	37582i	86	1991	43.9	+49 35	8.8	9.8	Ko	1	..	38672i
37	2367	43.5	+ 7 31	8.5	8.8	Fo	6	..	19611b	87	2208	43.9	+10 42	7.5	7.5	Ao	..	0.8	56,87
38	3221	43.5	- 2 43	8.1	8.5	F5	6	..	22977b	88	3233	43.9	- 6 39	8.9	9.9	Ko	1	..	13417b
39	3031	43.5	-18 42	8.8	9.6	G5	3	..	13130b	89	3158	43.9	-21 53	8.9	10.1	K2	2	..	40282b
40	3272	43.5	-20 38	8.27	8.6	A5	7	..	40282b	90	6136	43.9	-41 25	9.2	9.3	F5	3	..	41327b
41	8532	43.5	-31 30	9.3	9.4	F5	2	..	41375b	91	6210	43.9	-47 35	9.6	9.6	A2	3	..	9453b
42	5049	43.5	-51 48	11.5	10.1	Ao	3	..	37600b	92	5059	43.9	-51 47	8.9	8.9	Ao	8	..	37600b
43	3917	43.5	-52 44	9.8	10.4	G	2	..	37600b	93	3857	43.9	-55 56	8.9	9.5	A2	3	..	40090b
44	3849	43.5	-55 9	10.0	10.0	Ao	4	..	37600b	94	3834	43.9	-57 0	9.7	9.7	Ao	3	..	40090b
45	3817	43.5	-56 23	9.7	9.7	B9	2	..	40090b	95	2713	43.9	-59 21	6.69	5.8	B5	..	0.6	28,205
46	3803	43.5	-57 34	9.0	9.1	B8	4	..	40090b	96	1126	43.9	-71 51	9.5	10.0	F8	2	..	40298b
47	2703	43.5	-59 41	9.1	9.1	Ao	3	2.3	21154b	97	1294	44.0	+60 26	8.7	9.7	Ko	2	..	37716i
48	1660	43.5	-63 44	7.8	7.8	Ao	4	..	38834b	98	1818	44.0	+47 10	9.4	10.2	G5	2	..	38308i
49	1302	43.5	-68 41	6.63	7.4	A2	9	..	40075b	99	2074	44.0	+30 29	8.9	9.7	G5	2	..	38711i
50	1145	43.6	+62 15	9.0	9.6	G	2	..	37716i	100	2278	44.0	+22 14	9.0	9.0	Ao	4	..	37504i

H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.	H.D.	DM.	R.A. 1900	Dec. 1900	Ptm.	Ptg.	Sp.	Int.	Rem.	Pl. No.
1	2170	44.0	+16 23	8.9	9.3	F5	2	..	38666i	51	6217	44.3	-47 49	7.5	7.7	F2	9	..	9453b
2	2283	44.0	+11 4	5.27	5.27	Ao	..	..	56,87	52	5433	44.3	-50 47	10.2	10.1	Ao	2	..	37600b
3	3118	44.0	- 7 38	8.8	9.8	Ko	3	..	13417b	53	3929	44.3	-52 20	10.1	10.4	F2	2	R	37600b
4	3010	44.0	- 8 34	7.18	8.18	Ko	5	..	13409b	54	3927	44.3	-52 20	9.3	9.6	A3	3	..	37662b
5	6754	44.0	-38 18	8.8	8.7	A2	5	..	41327b	55	4059	44.3	-54 37	9.2	10.3	Fo	3	..	37600b
6	5425	44.0	-50 24	9.6	10.1	G5	3	E	37600b	56	4060	44.3	-54 47	10.2	10.0	K2	3	..	37600b
7	3921	44.0	-52 18	9.9	10.4	F8	2	..	37600b	57	3866	44.3	-55 23	9.7	9.7	B	4	..	37600b
8	3922	44.0	-52 28	10.4	10.4	Ao	4	..	37600b	58	3849	44.3	-56 13	10.0	10.0	Ao	5	2,2	37600b
9	3923	44.0	-52 28	10.4	10.4	Ao	2	..	37600b	59	1888	44.3	-61 30	8.4	8.5	A	1	..	4009ob
10	4051	44.0	-54 50	10.2	10.2	B9	3	..	37600b	60	1757	44.3	-62 22	9.6	9.7	Ao	5	0,3	21154b
11	3811	44.0	-57 40	9.7	9.7	Ao	3	..	4009ob	61	1129	44.3	-71 56	10.0	10.0	Ao	2	..	21154b
12	2717	44.0	-58 10	9.0	8.6	Ao	5	..	4009ob	62	1436	44.4	+52 49	7.8	8.1	A2	2	..	40298b
13	2720	44.0	-58 34	9.4	9.4	Ao	3	..	4009ob	63	2166	44.4	+34 32	9.0	9.8	Fo	3	..	37717i
14	1670	44.0	-64 2	6.6	6.4	B3	9	..	38834b	64	1931	44.4	+28 31	6.12	6.54	G5	3	..	37582i
15	170	44.0	-87 38	9.2	10.3	K2	2	..	22578b	65	2410	44.4	+18 36	9.3	9.8	F5	8	..	38208i
16	2522	44.1	+20 32	10.0	10.8	G5	1	..	37504i	66	2954	44.4	- 4 57	8.8	9.1	F8	2	..	37504i
17	2279	44.1	+17 41	7.17	8.17	Ko	5	..	37504i	67	8259	44.4	-25 43	10.3	9.8	Fo	7	..	13417b
18	2368	44.1	+ 7 17	8.5	9.3	G5	6	..	19611b	68	8629	44.4	-29 58	8.6	9.1	F5	3	..	40282b
19	2952	44.1	- 4 52	7.85	8.85	Ko	7	..	13417b	69	8743	44.4	-30 13	7.36	8.5	A5	2	..	13048b
20	6824	44.1	-37 12	9.5	9.5	A	2	..	41327b	70	6757	44.4	-35 25	8.8	9.2	Ko	5	..	13048b
21	6565	44.1	-43 51	7.9	8.2	B9	4	..	43044b	71	6313	44.4	-40 55	9.4	9.3	A5	2	..	41375b
22	6467	44.1	-46 31	9.4	8.7	A2	4	..	9453b	72	6219	44.4	-47 13	6.60	7.8	Ko	1	..	41327b
23	2722	44.1	-59 8	8.1	8.3	B5	5	..	4009ob	73	3869	44.4	-56 6	8.5	8.6	G5	9	..	9453b
24	1885	44.1	-61 28	8.9	9.1	B	3	..	21154b	74	3855	44.4	-56 18	9.0	10.2	Ao	7	2,2	4009ob
25	1508	44.1	-65 24	8.6	8.7	A5	3	..	38834b	75	2725	44.4	-60 7	9.54	9.2	K5	1	..	4009ob
26	670	44.2	+66 48	9.4	9.8	F5	2	..	37346i	76	1675	44.4	-63 21	8.2	9.2	Ao	3	..	21154b
27	1513	44.2	+51 47	8.6	9.8	K5	1	..	38672i	77	768	44.4	-73 55	9.8	9.8	Ko	2	..	38834b
28	2385	44.2	+ 3 58	7.9	8.0	A2	7	..	37731i	78	554	44.4	-79 57	5.48	7.1	Ao	2	..	40298b
29	2448	44.2	- 2 14	8.57	9.57	Ko	4	..	22977b	79	2050	44.5	+43 33	9.4	10.4	Ko	..	0,8 R	28,205
30	3193	44.2	-14 38	8.3	8.7	F5	6	..	13130b	80	2265	44.5	+23 43	8.0	8.4	Ko	1	..	38308i
31	7699	44.2	-27 23	6.92	7.3	A2	7	..	41399b	81	2957	44.5	-11 26	8.3	9.4	F5	5	..	37504i
32	6826	44.2	-37 32	8.5	8.9	F8	3	..	41327b	82	3276	44.5	-20 53	9.6	10.1	K2	3	..	13409b
33	5063	44.2	-51 16	8.2	9.2	Ko	6	..	37600b	83	3012	44.5	-22 22	9.8	10.1	Go	1	..	40282b
34	5065	44.2	-51 57	9.4	9.6	F5	5	..	37600b	84	8159	44.5	-26 17	7.48	7.8	F8	1	..	40282b
35	4147	44.2	-53 18	10.0	10.0	Ao	3	..	37662b	85	8455	44.5	-28 36	9.5	10.2	F2	7	..	41399b
36	3843	44.2	-56 55	9.4	9.4	B9	3	..	4009ob	86	8631	44.5	-30 7	8.20	8.2	Ko	1	..	41399b
37	2720	44.2	-59 24	6.12	6.1	A2p	..	0,6 R	28,205	87	7661	44.5	-32 52	9.9	10.0	G5	4	..	13048b
38	1672	44.2	-63 44	6.4	6.4	Ao	10	..	38834b	88	6831	44.5	-37 47	8.09	8.6	F5	1	..	41375b
39	1305	44.2	-68 55	6.68	6.2	B8	9	..	40075b	89	3930	44.5	-52 48	8.9	9.5	Ko	5	..	41327b
40	671	44.3	+67 6	7.9	7.9	Ao	4	2,3	37346i	90	4150	44.5	-53 37	9.2	10.0	G5	3	..	37662b
41	2264	44.3	+23 22	8.8	9.4	Go	3	..	37504i	91	3860	44.5	-56 28	9.4	9.4	G5	2	..	37662b
42	2999	44.3	- 3 30	6.49	6.55	A2	10	..	22977b	92	3821	44.5	-57 39	9.4	9.5	B9	4	..	4009ob
43	3011	44.3	-22 26	9.1	10.1	Go	2	..	40282b	93	2733	44.5	-58 41	8.9	9.4	A2	3	..	4009ob
44	8451	44.3	-28 34	8.21	8.9	Ko	4	..	41399b	94	2734	44.5	-59 1	8.7	8.9	K5	1	..	4009ob
45	8738	44.3	-30 32	7.55	8.2	F8	6	..	13048b	95	1759	44.5	-63 6	8.9	9.5	B	2	..	4009ob
46	6706	44.3	-36 37	9.5	9.5	F2	2	..	41327b	96	2128	44.6	+36 39	7.73	7.81	Go	1	R	38834b
47	6756	44.3	-38 58	10.8	10.1	Ao	2	..	41327b	97	2251	44.6	+14 49	8.74	9.81	A3	8	..	37582i
48	6686	44.3	-39 8	9.9	9.7	F5	1	..	41327b	98	2486	44.6	+ 1 29	8.3	9.4	K2	1	..	38228i
49	6505	44.3	-42 54	9.0	9.0	Fo	4	..	15319b	99	3235	44.6	- 6 14	9.1	10.1	K2	3	..	13378b
50	6822	44.3	-44 47	7.9	8.4	A3	7	..	15319b	100						Ko	2	..	13417b

Table with columns: H.D., DM., R.A. 1900, Dec. 1900, Ptm., Ptg., Sp., Int., Rem., Pl. No. and a second set of the same columns. Rows contain star data including identifiers like 1845, 1540, 1434, etc.

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102500

11h 42m.7

Table with 20 columns: H.D., DM., R.A. 1900, Dec. 1900, Ptm., Ptg., Sp., Int., Rem., Pl. No. (repeated). Rows 1-50 containing star data.

- 1894, the spectrum is of Class Ma, having the lines H γ and H δ bright. The line H δ is 5 times as bright as H γ .
78647. λ Velorum. The hydrogen lines are strong for this class.
78695. Perhaps of Class K2.
78712. RS Cancr. Variable. Class III. Max. 5.4. Min. 6.6. Period, irregular.
78764. E Carinae. The line H β is a narrow bright line, having only a slight contrast to other portions of the spectrum, and superposed on a wide dark band.
- 78774.5. H. D. 78774 precedes 4 $^{\circ}$, south 1'.0.
78791. G Carinae. Line 4077.9 is stronger than normal. Read 5,10 R, for 5, R.
78801. — Velorum. Variable. Class IV. Max. 8.1. Min. 9.0. Period, unknown.
78922. ϵ Pyxidis. Read 1,10 R, for 1, R.
78982. The star +20 $^{\circ}$ 2282, ptm. magn. 8.9, follows 0 $^{\circ}$.3, south 4'.8. The spectrum is superposed and appears to be of Class K.
78991. Index Catalogue, 2448. Gaseous nebula.
79028. c Ursae Majoris.
- 79210.1. H. D. 79210 precedes 1 $^{\circ}$.9, south 0'.2. Bu. 4972. P. A. 65 $^{\circ}$.4, Dist. 19".05. The photometric magnitudes of the two components are 7.90 and 8.01, respectively. Parallax, 0".15. Proper motion, 1".69, 248 $^{\circ}$.5.
79256. The star C.D.M. -41 $^{\circ}$ 4883, ptm. magn. 11.1, precedes 0 $^{\circ}$.2, south 1'.0. The spectrum is superposed and is also of Class A.
- 79267.8. The spectrum is composite.
79351. a Carinae.
79371. The observation, Ko, on I 38639, residual 10, was rejected. The spectrum is very faint on that plate.
79384. N. G. C. 2792. Ptm. magn. 11.8. Planetary nebula.
79402. SY Velorum. Variable. Class III. Max. 8.5. Min. 9.5. Period perhaps irregular.
79439. e Ursae Majoris. Read 3,10 R, for 3, R.
79447. i Carinae.
79469. θ Hydrae.
79554. π Cancr.
79609. Perhaps of Class F5.
79611. The classification is difficult, owing to the partial superposition of the spectra of H. D. 79610 and H. D. 79638.
79627. N. G. C. 2808. Globular cluster. A trace is seen of the dark lines H and K, but other portions of the spectrum appear to be nebulous without lines.
79646. The lines are narrow.
79735. z Velorum.
79837. ζ Octantis. Read 2,10 R, for 2, R.
79870. Lines 4128.1 and 4131.1 are well marked.
79917. l Velorum.
79940. k Velorum.
79957. The spectrum is suspected to be composite. Traces of lines are seen which may belong to a fainter spectrum of Class G or K.
80007. β Carinae. The line K is stronger than in the typical star. Read 0,10 R, for 0, R.
80038. C. D.M. -46 $^{\circ}$ 5043 = C. P. D. -46 $^{\circ}$ 3529 and 3530. The latter star follows 1 $^{\circ}$.0, north 0'.4. The photographic magnitudes on the International Scale are 10.4 and 10.7.
80077. All lines are very faint except H γ which is well marked. H β is suspected to be bright.
80092. The star C. P. D. -54 $^{\circ}$ 2131, magn. 8.7, follows 1 $^{\circ}$.0, south 0'.4. The spectrum may be also of Class A.
80139. The star C.D.M. -41 $^{\circ}$ 4950, ptm. magn. 9.6, follows 2 $^{\circ}$.8, north 5'.6. The spectrum may be of Class G.
80209. The spectrum is very indistinct and the class is uncertain.
80230. g Carinae. The observation, G5, on B 38748, residual 10, was rejected. The image is too dense on that plate to show the true nature of the spectrum.
80255. RU Carinae. Variable. Max. 10.9. Min. 12.1. Period, irregular.
80283. The star C. P. D. -58 $^{\circ}$ 1458, magn. 9.0, follows 0 $^{\circ}$.0, south 0'.4. The spectrum appears to be also of Class A.
80348. The spectrum is indistinct on both plates.
- 80388, 9. Bu. 5017. P. A. 171 $^{\circ}$.4, Dist. 29".02. Magn. 8.58 and 8.88 in the Potsdam Catalogue. On chart plates, the north preceding component is seen to be about 0.4 brighter than the south following. The spectrum is hazy. Both may be of Class G.
80404. i Carinae.
80456. K Velorum.
80519. The spectrum may be nearer to Class G than to K.
80558. The lines are narrow and the spectrum is like that of β Orionis. The observation, Bo, on B 42951, residual 8, was rejected. The lines are not well seen on that plate.
80586. P Hydrae.
- 80606.7. H. D. 80606 precedes 2 $^{\circ}$.23, south 0'.5. The stars appear nearly equally bright on a chart plate.
80714. The observation, G5, on I 38639, residual 13, was rejected. The spectrum is faint and near the edge on that plate.
80741. Perhaps of Class B8.
80834. The lines are so faint that the spectrum appears to be nearly continuous.
80837. RW Velorum. Variable. Class II. Max. 8.5. Min. 11.0. Period, unknown. On a photograph taken April 13, 1910, the spectrum is of Class Mc, having the line H δ bright.
80874. θ Pyxidis. Read 5,10 R, for 5, R.
81055. RW Carinae. Variable. Class II. Max. 8.5. Min. <11.5. Period, 322 d . On a photograph taken May 21, 1898, the spectrum is of Class Mb, having the lines H γ , H δ and H ζ bright. The relative intensities are 10, 20 and 1.
81062. Perhaps of Class A5.
81101. k Carinae. The line 4226.9 is about 0.8 as intense as in the spectrum of α Phoenicis.
81119. N. G. C. 2867. Planetary nebula.
81146. κ Leonis.
81163. The line H δ is strong for this class and the continuous spectrum resembles that of Class G5 or Ko.
81169. λ Pyxidis.
81188. κ Velorum.
81222. V Velorum. Variable. Class IV. Max. 7.5. Min. 8.2. Period, 4 d .3709.

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81405. Lines 4077.9, 4128.1, and 4131.1 are well marked.
81432. RS Velorum. Variable. Class II. Max. 9.5. Min. < 13.5. Period, 421^d. On a photograph taken March 24, 1909, the spectrum is of Class Mc, having H γ and H δ bright. The latter line is 10 times as bright as H γ .
81471. The lines are narrow.
81539. The spectrum is near the edge of the second plate.
81711. The observation, F2, on B 13154, residual 10, was rejected. The spectrum is indistinct on that plate.
81774. The spectrum is suspected to be composite.
81780. Read 0,10-, for 0,R.
81797. α Hydrae.
81799. G Hydrae. Read 0,10 R, for 0,R.
81848. I Velorum.
81858. ω Leonis.
81937. h Ursae Majoris. The lines are somewhat narrow.
81997. τ^1 Hydrae. Read 0,10 R, for 0,R.
- 82072,3. The spectrum is composite. Bu. 5114. P. A. 30^o.9, Dist. 0^o.69, magn. 7.7 and 8.5.
- 82084,5. The spectrum is composite.
82109. The photometric magnitude of this star combined with H.D. 82121, as given in H.A. 54, 109, is 7.18.
82121. See H. D. 82109.
82150. ϵ Antliae. Read 2,10 R, for 2,R.
82210. d Ursae Majoris. Read 0,10 R, for 0,R.
82308. λ Leonis. Read 0,10 R, for 0,R.
82328. θ Ursae Majoris. The hydrogen lines are as strong as in Class F5, while line 4226.9 and several other metallic lines are as strong as in Class G5. Proper motion, 1^o.11, 239^o.7.
82381. h Leonis.
- 82383,4. ζ^1 Antliae. Innes 9^h 39. P. A. 210^o.5, Dist. 8^o.49, combined magn. 5.94.
82395. ξ Leonis.
82434. ψ Velorum.
82446. τ^2 Hydrae.
82513. ζ^2 Antliae.
82554. ι Chamaeleontis. The lines are narrow and sharply defined and resemble in intensity those in the spectrum of ϵ Aurigae.
82610. S Antliae. Variable. Class IV. Max. 6.3. Min. 6.8. Period, 0^d.32416936.
82668. N Velorum. Suspected of variability. Read 5,10 R, for 5,R.
82818. The star +14^o 2111, ptm. magn. 10.6, precedes 3^o.1, north 6^o.4. The spectrum is superposed and appears to be of Class G.
82829. S Velorum. Variable. Class V. Max. 7.8. Min. 9.3. Period, 5^d.933577.
- 82847,8. C. DM. -20^o 2942 = C. P. D. -20^o 4613 and 4614. The latter star follows 1^o.0, north 0^o.5
82850. U Velorum. Variable. Class III. Max. 8.2. Min. 8.6. Period, irregular.
82870. A Hydrae.
82901. R Carinae. Variable. Class II. Max. 4.5. Min. 10.0. Period, 309^d.3. On a photograph taken April 3, 1896, the spectrum is of Class Mb, having the lines H γ , H δ , H ζ , H η , H θ , and H ι bright. The relative intensities are 10, 50, 4, 3, 1, and 0.5, respectively.
83048. X Hydrae. Variable. Class II. Max. 8.4. Min. 11.8. Period, 296^d. On a photograph taken May 11, 1895, a faint spectrum is seen, in which the line H δ is 4 times as bright as H γ .
83058. L Velorum.
83095. H Carinae.
83114. Y Draconis. Variable. Class II. Max. 8.5. Min. 13. Period, 336^d. On a photograph taken December 3, 1904, the spectrum is of Class Mb, having the lines H γ and H δ bright, and of nearly equal intensity.
83167. The star C. DM. -40^o 5337, ptm. magn. 10.4, follows 3^o.9, north 1^o.3. The spectrum is superposed and appears to be also of Class A2.
83183. h Carinae.
- 83231,2. The spectrum is composite. Innes 9^h 50. P. A. 116^o.6, Dist. 7^o.33, magn. 8.1 and 9.2.
83255. The spectrum is very faint. It may be nearer to Class F than to G.
- 83270,1. The spectrum is composite.
83331. The observation, G5, on B 13323, residual 15, was rejected. The spectrum is partly superposed on that of H. D. 83332.
83368. The spectrum resembles that of ξ Phoenicis, H. D. 3980. Lines 4077.9, 4128.1, 4131.1 and 4215.7 are very strong.
83446. M Velorum.
83548. y Velorum.
83618. ι Hydrae. Read 0,10 R, for 0,R.
83625. Lines 4077.9, 4128.1, and 4131.1 are strong. The spectrum is like that of ν Fornacis, H. D. 12767.
83754. κ Hydrae.
- 83808,9. σ Leonis. The spectrum is composite. This star is a spectroscopic binary.
83831. This star is C. DM. -59^o 2484, magn. 10.2, and is not contained in the Cape Photographic Durchmusterung.
83832. I. C. 2501. Gaseous nebula. C. DM. -59^o 2483, magn. 10.
83944. m Carinae.
83950. W Ursae Majoris. Variable. Class IV. Max. 7.9. Min. 8.6. Period, 0^d.166815.
83953. I Hydrae. The line H β is a narrow, bright line superposed on a hazy, dark band. Other lines are dark.
83979. ζ Chamaeleontis.
83989. The observation, A3, on B 41224, residual 12, was rejected. The spectrum is too near the edge of that plate.
84107. f Leonis. Read 0,10 R, for 0,R.
84123. The lines appear to be narrow.
84127. R Sextantis. Variable. Class III. Max. 9.5. Min. 10.6. Period, irregular.
84194. ψ Leonis.
84228. Read 0,10-, for 0,R.
84346. R Leonis Minoris. Variable. Class II. Max. 7.0. Min. 13.0. Period, 371^d.5. On photographs taken December 16, 1908, and January 15, 1909, the spectrum is of Class Mb, having the line H δ 7 times as bright as H γ .
84367. θ Antliae. The spectrum is probably composite. The line K is less intense than H.

84441. ϵ Leonis. The intensities of the lines resemble those in the spectrum of ζ Capricorni. In the distribution of light, the spectrum resembles those of Class Ko. See H.A. 28, 97, Remark 99.
84461. O Velorum.
84474. RR Hydrae. Variable. Class II. Max. 8.4. Min. <13.0. Period, 336^d.8. On a photograph taken January 15, 1905, the spectrum is of Class Ma, having H γ and H δ nearly equally bright. This star is C. P. D. -23° 46'2, and is not contained in the Cordoba Durchmusterung.
84678. The spectrum is peculiar in having a wide absorption band at 4227, and should probably be classed K5R.
84748. R Leonis. Variable. Class II. Max. 4.6. Min. 10.5. Period, 312^d.8. On numerous photographs the spectrum is of Class Mc, having the line H γ from 2 to 8 times as bright as H δ . See also H.A. 56, 255.
84810. I Carinae. Variable. Class IV. Max. 3.6. Min. 5.0. Period, 35^d.523.
84999. ν Ursae Majoris.
85063. The observation, Ma, on B 40221, residual 10, was rejected. The spectrum is in poor focus on that plate.
- 85123,4. ν Carinae. Innes 9^h 52. P. A. 184°, Dist. 0".25, combined magn. 3.08.
85140. — Carinae. Variable. Class III. Max. 9.3. Min. 10.2. Period unknown, perhaps irregular.
85235. ϕ Ursae Majoris. Read 0,10 R, for 0,R.
85319. — Sextantis. Variable. The range is about 0.34 magn. Period probably irregular.
85340. SU Velorum. Variable. Class III. Max. 9.2. Min. 10.5. Period, irregular.
85355. u Velorum. Read 0,10 R, for 0,R.
85376. g Leonis. Read 0,10 R, for 0,R.
85396. ν Chamaeleontis.
85405. Y Hydrae. Variable. Class III. Max. 6.5. Min. 8.0. Period, irregular. The spectrum is somewhat peculiar. The dark band 4640 to 4750 is very strong and the bright portion from 4340 to 4640 is less intense than in Classes Na or Nb, and has only 0.2, the intensity of band 4750 to 4870.
85444. ν^1 Hydrae.
85503. μ Leonis.
85534. N. G. C. 3031, Messier 81. Spiral nebula?
85541. Probably of Class Bo.
85558. γ Sextantis.
85597. S Leonis Minoris. Variable. Class II. Max. 8.5. Min. 11. Period, 293^d. On a photograph taken December 4, 1904, the spectrum is of Class Mb, having H γ and H δ nearly equal in brightness.
85599. The class is uncertain.
85622. m Velorum.
85675. T Sextantis. Variable. Max. 8.9. Min. 9.6. Period probably short.
85740. Of Class Bo or Oe5.
85795. Read 0,10-, for 0,R.
85931. Line 4077.9 is strong.
86023. The lines are narrow and the class is uncertain. The region of the line K is very indistinct.
86111. X Velorum. Variable. Class III. Max. 9.5. Min. 11.8. Period, irregular.
86167. The spectrum is suspected to be composite. The observation, G5, on I 38203, was rejected. The spectrum is very near the edge of that plate.
86267. Read 0,10-, for 0,R.
86360. ν Leonis. Read 2,10 R, for 2,R.
86440. ϕ Velorum. A typical star of Class B5. See page 7.
86441. The lines are narrow.
- 86456,7. H. D. 86456 precedes 3°, in the same approximate declination.
86461. The star -17° 30'8, ptm. magn. 9.9, precedes 1°.5, north 0'.6. The spectrum is of Class K.
86557. The lines are narrow.
86608. V Leonis. Variable. Class II. Max. 8.6. Min. <13.5. Period, 273^d.1. On a photograph taken March 27, 1894, the spectrum is very faint and shows the line H δ to be bright.
86629. η Antliae.
86652. The observation, Ko, on B 13116, residual 10, was rejected.
86655. RR Carinae. Variable. Class III. Max. 8.2. Min. 9.6. Period irregular. On a photograph taken May 5, 1893, the spectrum is of Class Mc.
86663. π Leonis.
86728. The lines are somewhat narrow, and strong lines are present. The line H δ appears to be strong for this class.
86729. Perhaps of Class B8.
86936. SZ Carinae. Variable. Class III. Max. 8.6. Min. 10.1. Period, irregular.
- 87037,8. H. D. 87037 follows 0°.8, north 1'.0. The lines are wide and almost double. Both spectra are probably of Class Ao.
87166. The lines are very hazy.
87373. This star is also S. B. D. -2° 30'8, magn. 8.5.
87504. ν^2 Hydrae.
87524. The star C. P. D. -52° 31'56, magn. 8.7, follows 1°.0, north 1'.5. The spectrum is superposed and appears to be also of Class A.
87643. The line H β is bright.
87737. η Leonis. The lines are very narrow and sharply defined. See H.A. 28, 24, for a description of this spectrum.
87816. R Velorum. Suspected at Cordoba to vary from 6.5 to 7.5 magn. Variability not confirmed by other observers. Line H δ appears strong for this class.
87837. A Leonis. Read 0,10 R, for 0,R.
87877. N. G. C. 3132. The spectrum is superposed on that of H. D. 87892.
87884. The proximity of this star to α Leonis makes the spectrum difficult to classify.
87901. α Leonis. The lines are wide. With H. D. 87884, this is Bu. 5331. P. A. 306°.8, Dist. 176".73.
87971. μ Chamaeleontis.
87976. The observation, A3, on I 38242, residual 9, was rejected. The spectrum is in poor definition on that plate.
- 88021,2. The spectrum is composite.
88028. — Velorum. Variable. Class III. Max. 9.1. Min. 9.9. Period probably irregular.

88078. Y Antliae. Variable. Class V. Max. 9.1. Min. 9.9. Period, 3^d.0519.
88161. Strong lines are present, especially 4271 and 4383 to 4385.
88206. Q Velorum.
88213. Perhaps of Class F₅.
88230. The spectrum is very peculiar. Lines 4226.9, 4435.8, and 4455.0 are very strong, and other strong lines are present. It resembles the spectrum of 61 Cygni, but is more peculiar. Parallax, 0".17. Proper motion, 1".45, 248".9.
88262. R Antliae. Suspected of variability at Cordoba but not certainly confirmed.
88284. λ Hydrae.
88366. S Carinae. Variable. Class II. Max. 5.8. Min. 9.0. Period, 148^d.7. On a photograph taken April 23, 1903, the lines Hβ, Hγ, Hδ, Hξ, and Hη are bright and have the following intensities, 6, 10, 5, 2, and 1. The continuous spectrum does not show any characteristics of Class M, but is rather of Class K. Line 4226.9 is not present, and very few absorption lines are seen. The brightest portion of the spectrum is between Hβ and Hγ. On a photograph taken June 15, 1904, the spectrum is banded, of Class Ma, having Hβ, Hγ, Hδ, Hξ, and Hη bright, with the following intensities, 1, 10, 12, 2, and 1.
88367. Index Catalogue, 2553. Gaseous nebula.
88415. The spectrum may be intermediate between Classes K₅ and Ma.
88517. — Sextantis. Variable. Class III. Max. 9.1. Min. 9.8. Period probably irregular.
- 88605.6. The spectrum is composite. Both stars may be of nearly the same brightness.
88651. U Ursae Majoris. Variable. Class III. Max. 7.0. Min. 8.3. Period, irregular.
88661. The line Hβ is bright.
88714. The spectrum is suspected to be composite.
88790. The spectrum may be intermediate between Classes K₅ and Ma.
- 88821.2. C.D.M. — 39° 6223 probably = C.P.D. — 39° 4266 and 4268. The latter star follows 1".6, south 0'.1.
88825. Read 1,10-, for 1,R.
- 88849.50. Bu. 5356. P.A. 166°.8, Dist. 16".76, magn. 6.1 and 7.0.
88918. SU Carinae. Variable. Class II. Max. 10.0. Min. <15.5. On a photograph taken March 12, 1897, a faint spectrum is visible which is probably of Class Ma, and in which the line Hδ is 3 times as bright as Hγ.
88923. The spectrum is suspected to be composite.
88946. Z Carinae. Variable. Class II. Max. 10.0. Min. 13.4. Period, 386^d. On a photograph taken May 5, 1893, a very faint spectrum is seen, in which the bright line Hδ is 4 times as strong as Hγ. The star is C.D.M. — 58° 3108, magn. 10.5, and is not contained in the Cape Photographic Durchmusterung.
88955. q Velorum.
88981. M Carinae. Read 0,10 R, for 0,R.
89021. λ Ursae Majoris.
89025. ζ Leonis. Read 2,10 R, for 2,R.
89080. ω Carinae. The lines are wide.
89234. ST Carinae. Variable. Class V. Max. 9.2. Min. 10.3. Period, 0^d.901652.
89249. The line Hβ is bright. The spectrum appears otherwise continuous. Perhaps it is of Class B.
89254. ε Sextantis.
89355. N. G. C. 3201. A globular cluster.
89388. q Carinae. The lines Hβ, Hγ, and Hδ are strong for Class K₅. Read 0,10 R, for 0,R.
89413. A star about 0.3 magn. fainter than H. D. 89413 precedes 0".71, south 26".4. The spectrum is superposed but is not defined. The Durchmusterung number and magnitude probably refer to both objects.
89448. The spectrum is indistinct probably due to its partial superposition on that of H. D. 89447.
- 89484.5. γ Leonis. Bu. 5388. P.A. 116°.1, Dist. 3".74, combined magn. 2.30.
89516. N. G. C. 3211. Planetary nebula.
89571. Read 0,10-, for 0,R.
89744. Parallax, 0".114, in Walkey's list, but certainly less than 0".1, according to Schlesinger.
89758. μ Ursae Majoris. Read 0,10 R, for 0,R.
89841. RY Velorum. Variable. Max. 8.0. Min. 10.0. Class and period, unknown.
89845. — Carinae. Variable. Max. 9.8. Min. 10.5. Class and period, unknown.
89890. J Velorum. The lines Hβ and Hγ are variable. On a photograph taken June 2, 1893, they were bright, but on photographs taken in 1895, 1896, 1899, and 1919, they were wholly dark. See H.A. 28, 183, Remark 99.
89920. The star C. DM. — 43° 6191, ptm. magn. 9.8, follows 0".8, south 0'.9. The spectrum is superposed but cannot be classified.
- 89974.5. H. D. 89974 precedes 0".5, north 0'.3.
89984. The star C. DM. — 30° 8401, ptm. magn. 12.1, precedes 0".6, north 0'.7. The photometric magnitude 8.20 applies to the combined light of both stars.
89991. — Carinae. Variable. Max. 9.1. Min. 9.7. Class and period, unknown.
89998. r Velorum.
- 90030.1. H. D. 90030 precedes 1".0, north 0'.4. These two stars = C. P. D. — 37° 4115 and 4116.
- 90076.7. The spectrum is composite.
90089. The lines are narrow, and lines of peculiar intensity are probably present.
90177. The line Hβ is bright. Other lines are very faint.
90187. The spectrum is almost continuous. It may be of Class Oe₅.
90255. N. G. C. 3242. Planetary nebula. Ptm. magn. 7.94.
90264. L Carinae.
90315. Probably of Class B₀.
90360. Perhaps of Class F₅.
90432. μ Hydrae.
90508. The line Hδ is strong for this class.
90513. The star +1° 2441, ptm. magn. 9.5, follows 0".9, north 1'.0. The spectrum is superposed and is probably also of Class K₂.
90519. The spectrum is nearly all superposed on that of H. D. 90520, which follows 0".6, south 1'.8.

90589. I Carinae.
 90610. α Antliae.
 90613. C. P. D. $-54^{\circ} 3642 =$ C. DM. $-54^{\circ} 3491$ and 3492 .
 The latter star follows $1^{\circ}.5$, south $0'.1$, C. DM. magn. 9.4 . The spectrum is hazy.
 90707. Perhaps of Class Oe5.
 90772. The lines are narrow, and several are very intense. See H.A. 28, 188, Remark 182, for detailed description of the lines. The spectrum resembles that of ϵ Aurigae, H. D. 31964.
 90853. s Carinae. Read $0,10$ R, for $0, R$.
 90877. Perhaps of Class K5. The star $+38^{\circ} 2146$, ptm. magn. 9.8 , precedes $2^{\circ}.3$, south $4'.6$. The spectrum is partly superposed and appears to be of Class F.
 90882. δ Sextantis. Read $1,10$ R, for $1, R$. This star is also B. D. $-1^{\circ} 2395$.
 90912. YZ Carinae. Variable. Class IV. Max. 9.0 . Min. 10.7 . Period, $18^d.158$.
 90966. $H\beta$ is a very narrow bright line superposed on a hazy dark band. $H\gamma$ and $H\delta$ are dark and wide.
 90972. δ Antliae.
 91026,7. H. D. 91026 precedes $0^{\circ}.5$, south $0'.3$.
 91039. UX Carinae. Variable. Class IV. Max. 8.1 . Min. 9.1 . Period, $3^d.6822$. The spectrum changes from F2 at maximum to G5 at minimum. It was classified G5 on a photograph taken May 11, 1909, where the image is very faint and at which time the star must have been near minimum.
 91054. The lines are narrow.
 91110. RT Velorum. Variable. Class II. Max. 10.5 . Min. <12.0 . Period, unknown. On a photograph taken March 25, 1908, the faint spectrum is seen, having the line $H\delta$ bright.
 91120. On a photograph taken December 16, 1904, the line $H\beta$ appears to be double.
 91168,9. These spectra are almost completely superposed. H. D. 91168 precedes $0^{\circ}.8$, south $0'.4$.
 91172,3. The spectrum is composite.
 91303. The observation, F $_0$, on B 13780, residual 10, was rejected. The region of the line K is indistinct on that plate.
 91316. ρ Leonis. Line 3805.1 has great intensity. Lines 3982.8 and 3994.9 are slightly stronger than normal. See H.A. 28, 94, Remark 13.
 91321,2. C. DM. $-31^{\circ} 8319 =$ C. P. D. $-31^{\circ} 3057$ and 3058 . The latter star follows $0^{\circ}.5$, south $0'.4$.
 91355,6. s Velorum. Innes $10^h 48$. P. A. $217^{\circ}.9$, Dist. $13''.6$, combined magn. 5.60 . Both spectra must be similar, since no peculiarity is observed in the combined spectrum.
 91375. K Carinae.
 91442. The spectrum is probably composite. Several solar lines are more intense than in typical spectra of Class A3, and there is a trace of the band G as in spectra of Classes G and K.
 91465. p Carinae. The lines $H\beta$ and $H\gamma$ are bright. In the case of $H\beta$, a double reversal is seen, a dark line being superposed on the bright line. Both $H\beta$ and $H\gamma$ are slightly displaced toward the edge of shorter wave length of the underlying dark bands.
 91504. t Velorum.
 91533. The lines are narrow and the spectrum resembles that of α Cygni.
 91573. Read $0,10$, for $0, R$.
 91593. The star C. P. D. $-54^{\circ} 3795$, magn. 8.0 , precedes $1^{\circ}.0$, south $0'.4$. The photometric magnitude refers to the combined light of the two stars.
 91595. Y Carinae. Variable. Class IV. Max. 8.1 . Min. 8.6 . Period, $3^d.6401$.
 91620. — Octantis. Variable. Max. 8.6 . Min. 11.0 . The period may be long.
 91629. The spectrum has the lines $H\beta$ and $H\gamma$ as strong as in Class F8, but the distribution of light resembles that of Class G5. It was classified F8 on B 43205, on which $H\gamma$ looks especially strong.
 91637. S Sextantis. Variable. Class II. Max. 9.2 . Min. 11.7 . Period, 257^d .
 91648,9. H. D. 91648 precedes $1^{\circ}.0$, south $1'.0$. These two stars are of nearly equal brightness on chart plates. The lines $H\gamma$ and $H\delta$ in the combined spectrum are stronger than in Class K. It is probable that the spectrum of the preceding star is of Class F and that of the following, of Class K.
 91650. The star C. P. D. $-52^{\circ} 3685$, magn. 9.4 , follows $5^{\circ}.0$, south $0'.6$. The spectrum is partly superposed and is also of Class A.
 91651. The lines are narrow.
 91661. Perhaps of Class F5.
 91745. — Velorum. Variable. Class II. Max. 11 . Min. <15 . Period about one year. The spectrum is very faint and may belong to Class R3 or R5.
 91793. U Antliae. Variable. Class III. Max. 8.3 . Min. 9.3 . Period, irregular.
 91938. C. DM. $-32^{\circ} 7475 =$ C. P. D. $-32^{\circ} 2923$ and 2924 . The former star precedes $0^{\circ}.0$, north $0'.6$, and its photographic magnitude reduced to the International Scale is 10.3 .
 91942. r Carinae.
 91943. The star C. P. D. $-57^{\circ} 3500$, magn. 8.4 , follows $0^{\circ}.0$, south $1'.3$. The spectrum is superposed and is of some division of Class B, since, besides the hydrogen lines, the helium line 4471.6 of this spectrum is identified among the lines of H. D. 91943.
 91958. The lines are narrow.
 92055. U Hydrae. Variable. Class III. Max. 4.5 . Min. 6.3 . Period, irregular.
 92063. t¹ Carinae.
 92090. RZ Carinae. Variable. Class II. Max. 9.0 . Min. <13.2 . Period 272^d . On a photograph taken on April 7, 1902, the spectrum is of Class Mb, having the line $H\delta$ 5 times as bright as $H\gamma$.
 92122,3. H. D. 92122 follows $1^{\circ}.0$, north $0'.3$.
 92139,40. p Velorum. Innes $10^h 59$. P. A. $261^{\circ}.4$, Dist. $0''.66$, magn. 4.5 and 5.0 . The spectrum is composite. The combined spectrum has the appearance of Class G, with the hydrogen lines as strong as in Class A5, and line K slightly fainter than H. The spectrum of the fainter component is not certainly defined, but must be of earlier type than that of the brighter component.

92168. The spectrum is very peculiar. The hydrogen lines, $H\beta$, $H\gamma$, and $H\delta$ are as strong as in Class F5. From this characteristic, it was classified F5p on I 37582. The line K and the end of shorter wave length resemble spectra of Class Ko. Strong metallic lines are present, somewhat as in spectra having narrow lines. The width of the lines, however, appears to be normal.
92207. The lines are narrow and the spectrum resembles that of α Cygni.
92214. ϕ Hydrae.
92245. The lines are wide.
92252. The lines are narrow.
92305. γ Chamaeleontis.
92314. The star C. P. D. $-59^\circ 2355$, magn. 9.8, precedes $0^s.5$, north $0'.1$. The photometric magnitude may refer to the combined light of these two stars.
92380. The star C. P. D. $-53^\circ 4028$, magn. 9.5, follows $1^s.0$, south $1'.2$. The spectrum is partly superposed and appears to be of Class A.
- 92397.8. t^2 Carinae. Innes $10^h 62$. P. A. $19^o.0$, Dist. $15''.2$, magn. 4.7 and 7.5. The companion is A. G. C. 14560. On photographs taken with short dispersion, which show the violet end clearly, the spectrum is of the composite type. The line K is barely seen and the hydrogen lines $H\zeta$, $H\eta$, $H\theta$, $H\epsilon$, etc., are as strong as in Class A stars.
92449. x Velorum. Line 4077.9 is 1.5 as strong as in the spectrum of α Aurigae. Read $0,10 R$, for $0,R$.
92451. The lines are narrow.
92464. The helium line 4121.0 appears to be less intense than in the spectrum of α Pavonis, the typical star.
92562. C. DM. $-25^\circ 8179 =$ C. P. D. $-25^\circ 4619$ and 4620 . The former star precedes $0^s.5$, north $0'.2$. The magnitudes in the C. P. D. are 9.6 and 9.6. The combined magnitude reduced to the International Scale is given in Column 6.
92608. The star C. P. D. $-59^\circ 2408$, magn. 8.8, precedes $0^s.0$, south $1'.5$. The spectrum is partly superposed and appears to be of Class A.
92626. The spectrum is peculiar and resembles that of S. D. $-19^\circ 3634$, $13^h 1^m.1$, $-19^\circ 31'$, described on page 10, as intermediate between Classes K and Ro.
92658. This star is C. P. D. $-41^\circ 4775$, and is not contained in the Cordoba Durchmusterung.
92664. The lines 4128.1 and 4131.1 are strong. The observation B3, residual 7, on B 38834, is rejected. The spectrum is too dense on that plate which was taken with short dispersion.
92668. The lines 4077.9 , 4128.1 , and 4131.1 are fairly well marked.
- 92692,3. The spectrum is composite.
92704. The lines appear to be narrow.
92719. Line $H\delta$ is strong, and 4077.9 is well marked. Read $0,10 R$, for $0,R$.
92740. The lines H and K are dark and narrow. Line 4059 is very bright. This line is interesting on account of its possible identity with the line in the spectra of Novae, which shows such remarkable variations. See H. A. 28, 175, Remarks 9 and 10 for more detailed description of the lines in this spectrum.
92763. R Ursae Majoris. Variable. Class II. Max. 7.0. Min. 13.5. Period, $302^d.1$. On photographs taken February 22, 1906, and February 6, 1907, the spectrum is of Class Mb, having $H\gamma$ and $H\delta$ bright. The line $H\delta$ was equal to $H\gamma$ on the first date and 7 times as bright as $H\gamma$ on the second date.
92839. Probably variable with a range of 0.45 magn.
92854. The lines are narrow.
92855. The spectrum was classified G5 in H.A. 56, 87, but it is faint on plates taken with the 11-inch Draper Telescope.
92894. The star C. P. D. $-58^\circ 2565$, magn. 8.8, precedes $3^s.0$, south $1'.5$. The spectrum is superposed and makes that of H. D. 92894 very uncertain.
92909. The star C. P. D. $-58^\circ 2573$, magn. 8.8, follows $5^s.0$, north $0'.8$. The spectrum is partly superposed and appears to be of a later division of Class B.
92910. The lines are narrow.
92922. The star C. DM. $-26^\circ 8099$, ptm. magn. 8.2, follows $2^s.5$, north $1'.0$. The spectrum is superposed and makes the classification of H. D. 92922 rather difficult.
92930. The star $-5^\circ 3131$, ptm. magn. 9.6, precedes $1^s.4$, north $0'.9$. The spectrum is superposed and is probably also of Class G.
92964. The lines are narrow.
93003. The helium line 4121.0 is fainter than in α Pavonis, the typical star.
93030. θ Carinae. Line 4685.9 is as strong as in Class Oe5. Line 4649.3 is very faint, and less intense than 4641.9. The lines are somewhat narrow. See also H. A. 28, 176, Remark 23.
93070. w Carinae.
- 93128,9. On some photographs there is an appearance of bright lines in the spectrum of one of these stars.
93131. See H. D. 92740. These two spectra are alike.
93146. The star C. P. D. $-59^\circ 2554$, magn. 8.7, precedes $0^s.0$, south $0'.9$. The spectrum is superposed and appears to be also of Class B.
- 93160,1. These two stars are A. G. C. 14689, magn. $8\frac{1}{2}$ and 14690, magn. $8\frac{1}{4}$. The former precedes $1^s.7$, north $4''.8$. In the spectrum of the following star, the lines H and K are narrow and K is of about the intensity as in Class A3. The spectrum may, however, contain helium lines. The spectrum of the preceding component is of some division of Class B.
93190. Probably of Class Oe5 or Bo.
93203. VY Carinae. Variable. Class IV. Max. 7.8. Min. 9.2. Period, $18^d.984$.
- 93204,5. H. D. 93204 precedes $1^s.5$, south $0'.3$. Both spectra are probably of Class B. Apparent traces of bright lines are seen.
93206. The line K appears stronger than normal.
93237. The lines 4128.1 and 4131.1 are stronger than normal. Read $3,10 R$, for $3,R$.
93239. Perhaps of Class F5.
93247. SV Velorum. Variable. Class IV. Max. 8.8. Min. 10.8 . Period, $14^d.097$.
93250. Perhaps of Class B2. The lines are faint and difficult to identify, owing to nebulosity being superposed.

93251. The spectrum is suspected to be composite. The line K appears to be too faint for Class F2.
93257. m Leonis. On I 375504, the spectrum was recorded as of Class A3, which is entirely wrong and appears to be simply a repetition of the Class of H. D. 92941, which was observed just before this star.
93291. k Leonis.
93308. η Carinae. Nova Carinae, No. 1. The star was of the fourth magnitude at the time of the first recorded observation in 1677. In 1751, it was of the second magnitude, and from 1837 to 1854, it was about magn. 0.3. In 1869, it had declined to the seventh magnitude, and has fluctuated between the seventh and eighth magnitudes since that time. The spectrum is characterized by numerous bright lines, and has changed, as described in H.A. 28, 175, Remark 2, and H.A. 76, 37.
- 93339,40. H. D. 93339 precedes 3^s.5, south 0'.3.
93343. The stars C. P. D. -59° 2635, magn. 9.1, and -59° 2636, magn. 9.1, follow 0^s.5, 0^s.5, north 0'.2, and 0'.7, respectively. The spectra of both are probably also of Class B.
93381. The star C. DM. -27° 7671, ptm. magn. 9.5, precedes 1^s.0, south 2'.0. The spectrum is superposed and is of Class A.
93397. b¹ Hydrae.
93417. The star C. P. D. -53° 4123, magn. 9.2, follows 0^s.5, south 4'.8. The spectrum is superposed and is probably of Class B.
93444. SX Carinae. Variable. Max. 8.3. Min. 10.0. Other facts concerning the variation are unknown.
93455. The star C. P. D. -58° 2689, magn. 9.4, precedes 2^s.0, south 0'.1. The lines H β , H γ , and H δ of this star are superposed on the spectrum of H. D. 93455.
93497. μ Velorum.
93503. The lines are narrow.
93504. The lines are narrow.
93506. TZ Carinae. Variable. Class III. Max. 8.4. Min. 9.6. Period probably irregular.
93517. Probably of Class A0. The region from H δ to the end of shorter wave length is superposed on the spectrum of H. D. 93540.
93537. The star C. P. D. -58° 2697, magn. 9.2, precedes 1^s.5, south 4'.7. The spectrum is partly superposed and appears to be of Class B.
93561. Perhaps of Class B2.
93619. The lines are narrow. Line 4077.9 is stronger than normal.
93632. The star C. P. D. -59° 2700, magn. 9.6, follows 2^s.0, south 0'.3. The star C. P. D. -59° 2702, magn. 9.3, follows 3^s.5, north 0'.2. The spectra of these two stars are superposed on that of H. D. 93632 and give it a hazy, indistinct appearance.
93702. l Leonis.
93737. The lines are narrow.
- 93753,4. The spectrum is composite.
93779. δ^1 Chamaeleontis.
93796. The star C. P. D. -62° 1760, magn. 9.2, follows 0^s.5, south 0'.1. The spectrum is superposed and is probably of the same, or nearly the same, class.
93813. ν Hydrae.
93843. The line H β is suspected to be bright.
93844. The lines are narrow.
93845. δ^2 Chamaeleontis.
93883. The star C. DM. -35° 6767, ptm. magn. 11.0, precedes 2^s.0, south 0'.5. The spectrum is superposed and the lines H γ and H δ are seen among those of H. D. 93883.
93911. The lines are narrow.
93923. The lines are narrow.
93946. Lines 4077.9, 4128.1, and 4131.1 are stronger than normal.
94008. The spectrum is suspected to be composite.
94018. C. DM. -40° 6337 = C. P. D. -40° 4775 and 4776. The latter star follows 0^s.0, south 0'.2. It is about 0.4 magn. fainter than -40° 4775 on chart plates.
94054. The lines are narrow.
94103. RS Hydrae. Variable. Class II. Max. 8.6. Min. 12.0. Period, 338^d. On a photograph taken April 13, 1896, the faint spectrum, which is probably of Class M, has the line H δ bright.
94175. The observation, Go, on I 37554, residual 10, was rejected. The spectrum is too poor on that plate.
94259. WW Carinae. Variable. Class IV. Max. 9.6. Min. 10.7. Period, 4^d.676.
94334. ω Ursae Majoris. Read 0,10 R, for 0,R.
94362. W Leonis. Variable. Class II. Max. 9. Min. <14. Period, 388^d. On a photograph taken April 1, 1905, the spectrum is of Class Mb, having the line H δ 6 times as bright as H γ .
94367. The lines are narrow and the spectrum resembles that of β Orionis.
94388. b³ Hydrae.
94402. p¹ Leonis.
94406. SS Velorum. Variable. Class III. Max. 10.0. Min. 10.9. Period, irregular. This star is C. DM. -52° 4032, magn. 10.2, and is not contained in the Cape Photographic Durchmusterung.
94412. TY Carinae. Variable. Max. 9.8. Min. 11.5. Class and period, unknown.
94435. A star about 0.2 magn. fainter than H. D. 94435 follows 4^s, north 0'.2. The spectrum is superposed and appears to be of Class F or F5.
94464. The star C. P. D. -57° 3928, magn. 8.8, precedes 2^s.5, south 0'.5. The spectrum is superposed and is probably of Class A.
94507. RU Velorum. Variable. Class II. Max. 10.7. Min. 15.3. On photographs taken June 28, and July 1, 1907, the spectrum is of Class Ma, having H δ 7 times as bright as H γ .
94510. u Carinae. The line 4226.9 appears to be slightly fainter than in the typical star. Read 5,10 R, for 5,R.
- 94530,1. The spectrum is composite.
- 94601,2. Bu. 5603. P. A. 107^s.5, Dist. 6^s.38, combined magn. 4.32. The two spectra are probably alike or nearly alike, since no peculiarity is seen in the combined spectrum.
94613. — Carinae. Variable. Max. 9.0. Min. 9.7. Class and period, unknown.

94650. Innes 10^h 83. P. A. 281°.2, Dist. 1".21, magn. 6.5 and 7.3. The lines are broad. The photometric and photographic magnitudes and class of spectrum refer to the combined light. It is probable, however, that both spectra are similar, if not exactly alike.
94660. The lines 4128.1 and 4131.1 are the strongest except those of hydrogen.
94693. This star is C. P. D. -34° 4388. The star -34° 4389, magn. 9.0, follows 0°.0, south 0'.6. The photometric magnitude refers to the combined light of these two stars.
94713. This star is C. DM. -53° 3755, magn. 10.5, and is not contained in the Cape Photographic Durchmusterung.
94727. The star +53° 1446, ptm. magn. 9.4, follows 0°.6, north 2'.4. The spectrum is superposed and appears to be also of Class K.
94776. T Carinae. Suspected of variability at Cordoba, but not yet confirmed. The line 4226.9 is 0.8 as intense as in α Phoenicis, the typical star.
94777. WZ Carinae. Variable. Class IV. Max. 8.3. Min. 10.2. Period, 21^d.9.
94878. The lines H β , H γ , H δ , and H ϵ are bright, and the spectrum belongs to the P Cygni class. It appears to be like that of H. D. 94910.
94890. ι Antliae. Read 0,10 R, for 0,R.
94910. The spectrum resembles that of P Cygni, when taken with the same dispersion. The lines H β , 4471.6, H γ , and H δ are strong bright lines having narrow absorption lines on the edge of shorter wave length. Other lines of similar nature, but fainter, are seen, such as 4026, and 4172. Faint absorption lines are also visible.
95013. This star is C. DM. -52° 4068, magn. 10.5, and is not contained in the Cape Photographic Durchmusterung.
95109. U Carinae. Variable. Class IV. Max. 6.8. Min. 8.0. Period, 38^d.7397. The lines are narrow. The spectrum probably changes with phase.
95128. The spectrum is somewhat peculiar. The lines of hydrogen are strong, yet in several other respects, the class resembles G5. Read 0,10 R, for 0,R.
95142. The star C. P. D. -68° 1379, magn. 9.2, follows 7°.0, north 5'.1. The spectrum is partly superposed and is probably of Class K.
- 95235.6. The spectrum is composite.
95272. α Crateris.
95301. The star C. P. D. -52° 4082, magn. 9.5, follows 0°.5, south 5'.3. The spectrum is superposed and is of Class A.
95344. δ Leonis.
95356. The lines are broad.
95370. ι Velorum. Read 0,10 R, for 0,R.
95382. ϵ Leonis.
95384. R Crateris. Variable. Range small. Period probably irregular.
95390. The lines are narrow.
95405. The spectrum has a wide band of absorption in the region of 4227, and thus resembles Class R. It may be intermediate between Classes K and R, as described on page 10.
95418. β Ursae Majoris.
95487. The spectrum may be of Class F5.
95536. The line K is strong for this class.
95541. Index Catalogue No. 2621. Gaseous nebula.
95578. p^2 Leonis. Read 0,10 R, for 0,R.
95589. The line H β is suspected to be bright.
95608. b Leonis. Read 0,10 R, for 0,R.
95649. Perhaps of Class F5.
95689. α Ursae Majoris.
95692. The star +23° 2300, ptm. magn. 9.6, precedes 2°.7, south 6'.2. The spectrum is superposed and is of Class K.
95707. The lines are narrow.
95735. Parallax, 0".40. Proper motion, 4".71, 186°.4.
95741. The star -2° 3274, ptm. magn. 10.2, follows 1°.5, north 0'.2. The spectrum is superposed and appears to be also of Class G5.
95821. Nova Velorum. The first spectrum of this new star was obtained 548 days after its appearance on a chart photograph, and was that of a gaseous nebula. See H.A. 76, 37.
95849. p^3 Leonis.
95853. This star is C. P. -21° 4846, magn. 9.1, and is not contained in the Southern Bonn Durchmusterung.
95880. The lines appear to be narrow.
- 95943.4. H. D. 95943 precedes 0°.0, north 0'.4. The two spectra may be similar.
96040. The lines appear to be narrow.
96042. H γ and H δ are suspected to be bright. The spectrum may resemble those of the P Cygni Class.
96097. χ Leonis.
- 96118.9. The spectrum is composite.
- 96120.1. H. D. 96120 precedes 1°.0, north 0'.2. The lines are double in the combined spectrum.
96124. η Octantis.
96202. χ^1 Hydrae.
96228. The star C. P. D. -59° 3015, magn. 9.4, follows 4°.0, south 0'.4, spectrum probably of Class K5. The photometric magnitude refers to the combined light of these two stars.
96229. On page 200, column 9, the letter R should be transferred to H. D. 96228.
96308. Probably of Class B0.
96314. χ^2 Hydrae.
96390. The star +76° 415, ptm. magn. 9.0, precedes 10°.0, south 1'.9. The spectrum is partly superposed. It is not well defined but is probably of Class G0 or G5.
96430. The class is uncertain and may be of some division of B. The spectra of several adjacent stars are partly superposed.
96436. p^4 Leonis.
96446. The spectrum contains a very strong dark line at the approximate wave length 3869. No other spectrum has been found in which this line is so strong. The helium lines are also very strong.
96566. z Carinae.
96616. The strontium lines 4077.9 and 4215.7 are the most intense lines except those of hydrogen. The lines 4128.1 and 4131.1 are well marked. The spectrum resembles that of ι Phoenicis, described in H.A. 28, 187, Remark 159.

96650. RW Centauri. Variable. Class III. Max. 10.2. Min. 11.2. Period, irregular. This star is C. DM. $-54^{\circ} 3975$, and is not contained in the Cape Photographic Durchmusterung.
96830. RS, Nova Carinae, No. 2. The first spectrum was taken on April 14, 1895, six days after the appearance of the star on a chart plate. The spectrum was of the Nova form, having bright and dark hydrogen lines. On June 15, 1895, bands 4363 and 4650 were the strongest. See H.A. 76, 37.
96833. ψ Ursae Majoris. The lines are indistinct. The class may be Oe5.
96880. The lines are indistinct. The class may be Oe5.
96918. α Carinae. The lines are very narrow and the spectrum resembles that of δ Canis Majoris, H. D. 54605.
96919. The lines 4128.1 and 4131.1 are strong. Line K is strong, and the spectrum appears to resemble that of α Doradus, H. D. 29305, described in H.A. 28, 186, Remark 145.
97082. — Carinae. Variable. Max. 7. Min. 8. Class and period, unknown. The class of spectrum indicates variability in short period. The lines are somewhat narrow and the intensities agree in some respects with those in the spectrum of δ Canis Majoris, H. D. 54605.
97171. The star C. P. D. $-51^{\circ} 5404$, magn. 10.2, follows $2^{\circ}.4$, south $1^{\circ}.0$. The spectrum is superposed and is also of Class A.
97173. The star C. P. D. $-58^{\circ} 3232$, magn. 8.4, follows $0^{\circ}.5$, south $1^{\circ}.5$. The spectrum is partly superposed and is also of Class A.
- 97206.7 H. D. 97206 precedes $3^{\circ}.0$, south $0^{\circ}.4$. Both spectra appear to be of Class B.
97264. SU Centauri. Variable. Class V. Max. 8.7. Min. 9.6. Period, $5^d.35442$.
97277. β Crateris.
97284. The star C. P. D. $-60^{\circ} 2595$ precedes $8^{\circ}.0$, south $0^{\circ}.6$. The photometric magnitude of the combined light of these two stars given in H.A. 54, 126, is 8.79.
97334. The lines are somewhat narrow, and strong metallic lines are present. The line H δ is strong for Class G0.
- 97336.7. The spectrum is composite.
97375. The star $-20^{\circ} 3370$, ptm. magn. 9.3, precedes $0^{\circ}.8$, north $1^{\circ}.2$. The spectrum is superposed and appears to be also of Class G.
- 97399.400. H. D. 97399 follows $1^{\circ}.3$, north $1^{\circ}.9$. The spectra are almost completely superposed. Both are probably of or near Class B0.
97409. The lines appear to be very broad.
97534. γ Carinae. The lines are very narrow and the spectrum resembles that of ϵ Aurigae, H. D. 31964. See H.A. 28, 188, Remark 182.
97584. The star $+74^{\circ} 456$ a, ptm. magn. 8.2, follows 1° , in the same approximate declination. The spectrum is partly superposed and is probably also of Class K5.
97585. ρ^5 Leonis. Read o, r, R, for o, R.
97603. δ Leonis.
97633. θ Leonis.
97689. The lines 4077.9, 4128.1, and 4131.1 are well marked, but not more than 0.4 as strong as the line K.
97907. n Leonis.
97920. Perhaps of Class F5.
97950. The spectrum appears to be nearly continuous with a bright band at about 4686.
98014. SY Carinae. Variable. Class III. Max. 8.8. Min. 10.0. Period probably irregular.
- 98027.8. The spectrum is composite.
98058. ϕ Leonis.
98074. The star C. P. D. $-61^{\circ} 2157$, magn. 9.7, follows $0^{\circ}.0$, south $0^{\circ}.3$. The spectrum is superposed and appears to be of Class G or K.
98217. The spectrum resembles that of 61 Cygni in the intensity of lines between H β and H γ .
- 98230.1. ξ Ursae Majoris. Bu. 5734. P. A. $238^{\circ}.7$, Dist. $1^{\circ}.75$, combined magnitude 3.86. Parallax, $0^{\circ}.15$.
98262. ν Ursae Majoris. Line 4226.9 is somewhat stronger than in α Bootis.
98421. The lines appear double. The star C. P. D. $-60^{\circ} 2798$, magn. 9.4, precedes $1^{\circ}.5$, south $0^{\circ}.2$. The spectrum is superposed and is probably also of Class A, which causes the double appearance of the lines.
98430. δ Crateris.
98466. A star follows 2° , south $1^{\circ}.1$. The spectrum is superposed and makes that of H. D. 98466 uncertain.
98518. The class is uncertain, due to the partial superposition of the spectrum on that of H. D. 98517.
98664. σ Leonis. The helium line 4026.3 and a trace of 4471.6 are present as in Class B9.
98678. RS Centauri. Variable. Class II. Max. 9.2. Min. <12.9 . Period, 166 d . On a photograph taken November 19, 1895, the spectrum is of Class Ma, having H γ and H δ equally bright.
98718. π Centauri. The lines are broad.
- 98744.5. H. D. 98745 follows $0^{\circ}.5$, south $0^{\circ}.4$.
98767. — Centauri. Variable. Class III. Max. 9.7. Min. 10.4. Period, irregular. This star is C. DM. $-55^{\circ} 3979$, magn. $10\frac{1}{4}$, and is not contained in the Cape Photographic Durchmusterung.
98898. Perhaps of Class B8.
98923. The spectrum is suspected to be composite.
98991. λ Crateris.
99028. ι Leonis.
- 99049.50. The spectrum is composite.
99059. This star is C. DM. $-22^{\circ} 8867$, and is not contained in the Southern Bonn Durchmusterung.
- 99103.4. Innes 11 b 19. P. A. $291^{\circ}.8$, Dist. $2^{\circ}.62$, combined magnitude, 5.34.
99145. The star C. DM. $-57^{\circ} 3904$, ptm. magn. 7.2, follows $0^{\circ}.4$, south $0^{\circ}.2$. No trace is seen of its spectrum. It is probably also of Class K5.
99167. ϵ Crateris.
99211. γ Crateris.
99257. This star is C. DM. $-22^{\circ} 8883$, and is not contained in the Southern Bonn Durchmusterung.
99278. The class is uncertain. Lines are seen which belong to the spectra of adjacent faint stars.
99364. C. P. D. $-24^{\circ} 4666$. The star C. P. D. $-24^{\circ} 4667$, follows $0^{\circ}.5$, south $0^{\circ}.5$. This star has the same magnitude in the Cape Photographic Durchmusterung as H. D. 99364, but it is about 0.4 magn. fainter on chart plates.

99368. The star C. DM. $-49^{\circ} 6150$, ptm. magn. 10.2, precedes $1^{\circ}.9$, south $4'.7$. The spectrum is partly superposed and is of Class A.
99390. The spectrum is suspected to be composite, as lines are seen which appear to belong to a spectrum of Class G.
99416. The class is uncertain, due to the superposition of the spectra of adjacent stars.
99564. κ Crateris.
99573. The star C. DM. $-50^{\circ} 6012$, ptm. magn. 9.4, precedes $2^{\circ}.2$, north $1'.5$. The magnitude of this star combined with H. D. 99573 is given in H.A. 54, 128, as 8.39.
- 99574.5. The spectrum is composite.
99592. ST Ursae Majoris. Variable. Class IV? Max. 8.2. Min. 9.0. Period, $8^d.8?$
99604. The star C. P. D. $-54^{\circ} 4541$, magn. 9.6, precedes $2^{\circ}.0$, south $0'.6$. The spectrum is superposed and appears to be also of Class Ko. The photometric magnitude of these two stars, as given in H. A. 54, 128, is 9.24.
99612. Perhaps of Class A5.
99640. The star C. DM. $-45^{\circ} 7008$, ptm. magn. 10.2, precedes $0^{\circ}.6$, north $0'.7$. The spectrum is superposed and appears to be also of Class K.
99648. τ Leonis.
99842. One bright band is seen, which appears to be 5007, but it is uncertain.
99944. The line K is strong for this class.
99998. ϵ Leonis.
100029. λ Draconis. The observation K2, on I 37554, residual 8, was rejected. The spectrum is too dense on photographs taken with the 8-inch Telescope which have an hour's exposure.
100060. This star is C. P. D. $-20^{\circ} 5199$. C. P. D. $-20^{\circ} 5200$, precedes $1^{\circ}.0$, north $0'.4$. The latter is 0.8 magn. fainter than H. D. 100060 on chart plates, although both have magn. 9.2 in the Cape Photographic Durchmusterung. A few lines are seen belonging to the fainter spectrum but it cannot be classified.
100198. The lines are narrow and the spectrum resembles that of α Cygni.
100261. α^1 Centauri. The lines are narrow and the spectrum resembles that of δ Canis Majoris.
100262. α^2 Centauri. The lines are narrow and the spectrum resembles that of α Cygni.
- 100273.4. H. D. 100273 precedes $1^{\circ}.1$, north $0'.2$. The lines are hazy and both spectra may be of Class F5.
- 100286.7. N Hydrae. Bu. 5820. P. A. $210^{\circ}.0$, Dist. $9''.00$, combined magnitude 5.07.
100336. $-$ Muscae. Variable. Class III. Max. 9.5. Min. 10.5. The spectrum is very peculiar. Four bright lines are seen, three of which are H β , H γ , and H δ and the fourth appears to be the band 4650, present in spectra of Class O. The spectrum resembles that of 232848, Z Andromedae and also several new stars at late stages of their history. The light curve of Z Andromedae, given in H. C. 168, resembles that of new stars in having sudden outbursts in light.
100407. ξ Hydrae.
100429. The star C. P. D. $-60^{\circ} 3043$, magn. 9.5, follows $2^{\circ}.0$, north $0'.6$. The spectrum is superposed and is probably also of Class K.
100623. Parallax, $0''.238$ in Walkey's list. This value is considered by Schlesinger to be "exceedingly dubious." Proper motion, $1''.08$, $321^{\circ}.0$.
100673. A Centauri.
100698. The spectrum is very faint except between 4227 and H ϵ . In this respect it resembles the spectra of several variable stars.
100710. The spectrum is suspected to be composite and to have a fainter spectrum of Class G superposed.
100733. C¹ Centauri.
- 100792.3. H. D. 100792 precedes $3^{\circ}.5$, in same declination. The two spectra are probably similar.
100825. C² Centauri.
100826. The lines are narrow and the spectrum resembles that of η Leonis, which is described in H.A. 28, 24,
100841. λ Centauri. A typical star of Class B η . See page 7.
100889. θ Crateris.
100920. ν Leonis.
100971. SU Draconis. Variable. Class IV. Max. 9.0. Min. 9.7. Period, $0^d.3978$.
100976. This star is C. P. D. $-26^{\circ} 4551$, and is not contained in the Cordoba Durchmusterung.
101067. C³ Centauri. Read 2, 10 R, for 2, R.
101132. π Chamaeleontis.
101153. ω Virginis.
101198. ι Crateris.
101221. The star C. P. D. $-59^{\circ} 3666$, magn. 8.9, follows $0^{\circ}.0$, north $1'.3$. The spectrum is superposed and is probably also of Class B η .
- 101310.11. The spectrum is composite.
- 101379.80. Innes 11^b 42. Comes = 11.3 magn. The spectrum is composite. The bright star must have a close companion of nearly equal brightness.
101414. RR Muscae. Variable. Class III. Max. 8.6. Min. 10.2. Period, irregular. This star is A. G. C. 15946, magn. 8.5, and is not contained in the Cape or Cordoba Durchmusterungs.
101431. σ Hydrae.
101501. The lines are narrow. Line 4226.9 and several others have strong intensity.
101548. The star $+59^{\circ} 1396$, ptm. magn. 9.2, precedes $0^{\circ}.6$, north $0'.5$. The spectrum is superposed and makes that of H. D. 101548 indistinct.
101570. The hydrogen lines are as strong as in Class G η , but in some respects, especially in the distribution of light, the spectrum resembles Class Ko.
101602. UZ Centauri. Variable. Class IV. Max. 8.7. Min. 9.5. Period, $3^d.3345$.
101605. RU Ursae Majoris. Variable. Class II. Max. 8.5. Min. <14.0 . On a photograph taken March 27, 1900, a faint spectrum is seen, which is probably of Class Ma, and in which the line H γ is twice as bright as H δ .
101650. This star is C. DM. $-22^{\circ} 9062$, and is not contained in the Southern Bonn Durchmusterung.
101947. The lines are narrow and the spectrum resembles that of δ Canis Majoris.

101964. The photographic magn. 10.7, is derived from the magnitude 9.8 in the Cape Photographic Durchmusterung which appears to be wrong. On 3 chart plates examined, this star is brighter than C. P. D. $-61^{\circ} 2571$, H. D. 102009, whose magn. is 8.3.
- 101993.4. H. D. 101993 precedes $1^{\circ}.5$, in the same declination.
102070. ζ Crateris.
102124. ξ Virginis.
102131. The star $+16^{\circ} 2291$, ptm. magn. 8.9, follows $2^{\circ}.3$, north $5^{\circ}.3$. The spectrum is partly superposed and appears to be of Class G.
- 102171.2. The spectrum is composite.
102212. ν Virginis.
102224. χ Ursae Majoris.
102248. The star C. P. D. $-60^{\circ} 3315$, magn. 8.3, follows $1^{\circ}.5$, south $1^{\circ}.0$. The spectrum is superposed and appears to be also of Class B.
102249. λ Muscae.
- 102319.20. The spectrum is composite.
102334. The line K is strong for this Class. The lines are probably narrow.
102350. The spectrum is somewhat peculiar in combining characteristics of Classes G₀ and K₀. The hydrogen lines are as strong as in Class G₀, but some lines resemble those of Class K₀ in intensity.
102365. Proper motion, $1^{\prime}.58$, $284^{\circ}.3$.
102510. A¹ Virginis. Read 0,10 R, for 0,R.
102552. SV Centauri. Variable. Class V. Max. 8.80. Min. 9.8. Period, $1^{\text{d}}.66117$.
102584. μ Muscae.
102590. The spectrum is suspected to be composite. Bu. 5926. P. A. $314^{\circ}.6$, Dist. $0^{\prime}.95$, magns. 6.8 and 11.0.
102647. β Leonis.
102660. Lines 4077.9, 4128.1, and 4131.1 are strong.
102681. X Centauri. Variable. Class II. Max. 7.3. Min. 13.0. Period, $313^{\text{d}}.9$. On a photograph taken May 21, 1895, the spectrum is of Class Ma, having the line H δ 1.5 as bright as H γ .
102721. The lines are broad.
102776. j Centauri. The lines are broad.
102854. N. G. C. 3918. Gaseous nebula.
102870. β Virginis. Parallax, $0^{\prime}.10$. A typical star of Class F8. See page 8.
102878. The lines are narrow, and the spectrum is like that of α Cygni.
- 102942.3. The spectrum is composite. The spectrum of the brighter component has narrow lines and the intensities bear some resemblance to those in the spectrum of δ Canis Majoris.
102946. The spectrum is slightly peculiar in the intensity of some lines. A strong absorption line is present at the approximate wave length 4200, and appears to be situated on a bright band. Line 4226.9 is very strong. H γ is suspected to be bright.
102964. B Centauri.
102997. Bright lines are suspected to be present.
- 103046.7. H. D. 103046 precedes $1^{\circ}.5$, south $0^{\circ}.9$. The two classes of spectra are very clearly defined. Chart plates show the two stars to be equally bright.
103095. Groombridge 1830. Proper motion, $7^{\prime}.06$, $145^{\circ}.3$. A strong line is present at 4383 It may be a blend of 4383 and 4385.
103104. Perhaps of Class B8.
103137. — Muscae. Variable. Max. 9.4. Min. 10.3. Class and period, unknown. The class of spectrum indicates variability in short period.
103154. S Crateris. Variable. Class III. Max. 8.2. Min. 9.2. On photographs taken April 1, 1905 and January 29, 1906, the spectrum is of Class Mc, and the line H δ is suspected to be slightly bright.
103192. β Hydrae.
103287. γ Ursae Majoris.
103354. Line 4077.9 is strong.
103445. The observation, F5, on B 13466, residual 10, was rejected. The image is very faint on that plate.
103484. A² Virginis.
103513. W Centauri. Variable. Class II. Max. 8.6. Min. 13.1. Period, $204^{\text{d}}.3$. On a photograph taken June 14, 1895, the spectrum is of Class Mb, having H γ and H δ equally bright.
103516. The lines are narrow and the spectrum resembles that of α Cygni.
103578. o Leonis.
103632. η Crateris.
103681. Z Ursae Majoris. Variable. Class II. Min. 7.2. Max. 8.7. Period appears to be generally irregular but sometimes about 120^{d} . On a photograph taken March 13, 1904, the spectrum is of Class Mc, having H δ 3 times as bright as H γ .
103856. The spectrum is suspected to be composite. It was classified F2 on B 19003.
103877. Lines 4077.9, 4128.1, and 4131.1 are stronger than normal.
103885. The spectrum is probably composite. The line K appears to be too faint for Class F2. A spectrum of Class A may be superposed.
103932. Proper motion, $1^{\prime}.21$, $234^{\circ}.8$.
104010. The star C. P. D. $-57^{\circ} 5144$, magn. 9.3, precedes $4^{\circ}.0$, south $0^{\circ}.2$. The spectrum is also of Class K.
104035. The lines are narrow and the intensities resemble those in the spectrum of α Cygni.
104041. The star C. DM. $-35^{\circ} 7583$, ptm. magn. 10.9, precedes $0^{\circ}.3$, south $2^{\circ}.0$. The spectrum is superposed and makes that of H. D. 104041 very indistinct.
- 104107.8. H. D. 104107 precedes $0^{\circ}.0$, south $0^{\circ}.2$. Both spectra are probably of Class K.
104141. The star C. DM. $-50^{\circ} 6557$, ptm. magn. 9.4, follows $4^{\circ}.4$, south $0^{\circ}.3$. The spectrum is superposed and is of Class A.
104174. ϵ Chamaeleontis.
104181. b Virginis. Read 0,10 R, for 0,R.
104202. This is the brightest component of Bu. 5990. The fainter component is $+71^{\circ} 595$, which precedes 4° , north $0^{\circ}.5$, ptm. magn. 8.04. This spectrum was looked for on several plates taken with short dispersion, and, although faint, it appears to be of Class K. Chart plates show that $+71^{\circ} 595$ is at least 1.5 magn. fainter than $+71^{\circ} 596$, which confirms the spectrum of Class K.

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| <p>104268. A line at about 4383 is very strong.</p> <p>104294. This star is C. P. D. $-19^{\circ} 5004$, and is not contained in the Southern Bonn Durchmusterung.</p> <p>104321. π Virginis.</p> <p>104408,9. H. D. 104408 precedes $1^{\circ}.0$, north $1^{\circ}.0$. The separation of the two spectra is difficult, but the spectrum of Class K seems to belong to the southern star.</p> <p>104449. The spectrum is suspected to be composite.</p> <p>104513. Read $0,10-$, for $0,R$.</p> <p>104533,4. The spectrum is composite. On B 40107, it was classified F5, with the remark, "May be composite. The line K is 0.8 as strong as H."</p> <p>104556. The observation G_0, on Mc 4906, residual 10, was rejected.</p> <p>104583. The star C. P. D. $-60^{\circ} 3632$, magn. 9.4, precedes</p> | <p>$0^{\circ}.3$, north $2^{\circ}.6$. The spectrum is superposed and is also of Class A.</p> <p>104671. θ^1 Crucis.</p> <p>104759,60. H. D. 104759 follows $1^{\circ}.5$, north $0^{\circ}.6$. Both spectra are probably of Class F8.</p> <p>104811,2. The spectrum is composite.</p> <p>104829,30. H. D. 104829 precedes $0^{\circ}.96$, north $24^{\circ}.0$. Both spectra may be alike.</p> <p>104841. θ^2 Crucis.</p> <p>104886. RX Virginis. Variable. Class III. Max. 7.2. Min. 8.8. Period, irregular.</p> <p>104901. The star C. P. D. $-61^{\circ} 2935$, magn. 8.8, follows $2^{\circ}.0$, south $0^{\circ}.3$. The spectrum is superposed and appears to be of the same, or nearly the same, class as H. D. 104901.</p> <p>104902. κ Chamaeleontis.</p> |
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END OF VOLUME 94.