~~12-in Horizontal Telescope~~

~~Records~~

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

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Monday, Dec. 30 1912.

Time: 10.07

T3 12407 shot disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 1 | H | |
| 2 | 2 | H2 | |
| 3 | 4 | Hp5 | |
| 4 | 2 | H0 | |
| 5 | 5 | H0 | |
| 6 | 2 | Hp5 | |
| 7 | 2 | Hp0 | |
| 8 | 4 | A0 | |
| 9 | 4 | H5 | |
| 10 | 7 | H0 | |
| 11 | 3 | F8 | |
| 12 | 2 | H0 | |
| 13 | 4 | H2 | |
| 14 | 3 | A0 | |
| 15 | 2 | K2 | |
| 16 | 5 | H5 | |
| 17 | 2 | Hp5 | |
| 18 | 4 | F0 | |
| 19 | 2 | G | |
| 20 | 2 | Hp5 | |
| 21 | 1 | A | |
| 22 | 3 | K0 | |
| 23 | 3 | F | |
| 24 | 2 | G | |
| 25 | 5 | A3 | |
| 26 | 5 | F2 | |
| 27 | 10+ | A | Burned out |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | −16° | 870 | 4 | 23.0 | −16 | 15.6 | 9.0 ✓ |
| 2 | −16° | 877 | 4 | 24.1 | −16 | 35.6 | 9.0 ✓ |
| 3 | −16° | 878 | 4 | 24.2 | −16 | 46.2 | 8.7 ✓ |
| 4 | −17° | 892 | 4 | 23.8 | −17 | 11.2 | 8.5 ✓ |
| 5 | −17° | 896 | 4 | 24.5 | −17 | 12.6 | 8.3 ✓ |
| 6 | −18° | 853 | 4 | 23.8 | −18 | 6.5 | 8.6 ✓ |
| 7 | −18° | 857 | 4 | 24.5 | −18 | 16.3 | 9.0 ✓ |
| 8 | −17° | 900 | 4 | 25.7 | −17 | 51.6 | 8.6 ✓ |
| 9 | −18° | 861 | 4 | 26.0 | −18 | 2.7 | 8.5 ✓ |
| 10 | −17° | 902 | 4 | 26.9 | −17 | 34.7 | 8.2 ✓ |
| 11 | −17° | 905 | 4 | 27.2 | −17 | 46.8 | 8.5 ✓ |
| 12 | −17° | 907 | 4 | 28.0 | −17 | 12.7 | 8.1 ✓ |
| 13 | −17° | 921 | 4 | 31.6 | −17 | 1.0 | 7.7 ✓ |
| 14 | −15° | 832 | 4 | 33.0 | −15 | 48.1 | 9.1 ✓ |
| 15 | −14° | 951 | 4 | 37.3 | −14 | 43.5 | 8.8 ✓ |
| 16 | −17° | 927 | 4 | 33.2 | −17 | 15.0 | 7.3 ✓ |
| 17 | −18° | 879 | 4 | 30.3 | −18 | 10.7 | 8.7 ✓ |
| 18 | −19° | 995 | 4 | 35.0 | −19 | 43.8 | 8.8 ✓ |
| 19 | −20° | 918 | 4 | 36.6 | −20 | 3.7 | 9.0 ✓ |
| 20 | −16° | 916 | 4 | 33.1 | −16 | 51.2 | 8.7 ✓ |
| 21 | −16° | 919 | 4 | 33.5 | −16 | 52.1 | 9.1 ✓ |
| 22 | −17° | 928 | 4 | 34.0 | −17 | 58.1 | 8.5 ✓ |
| 23 | −18° | 890 | 4 | 33.4 | −18 | 23.6 | 8.5 ✓ |
| 24 | −18° | 897 | 4 | 34.8 | −18 | 19.8 | 9.3 ✓ |
| 25 | −18° | 902 | 4 | 36.4 | −18 | 6.2 | 8.7 ✓ |
| 26 | −18° | 903 | 4 | 36.4 | −18 | 14.2 | 8.8 ✓ |
| 27 | −18° | 906 | 4 | 37.7 | −18 | 56.2 | 6.0 ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, Dec. 30, 1913.
B 12407 short drift.

| No | Int | Class | Remark |
|---|---|---|---|
| 28 | 4 | F5 | The following |
| 28a | 2 | F8 | are precisely |
| 29 | 5 | F0 | |
| 30 | 3 | G5 | |
| 31 | 7 | F0 | |
| 32 | 5 | A2 | |
| 33 | 6 | A0 | |
| 34 | 7 | F0 | |
| 35 | 2 | G | |
| 36 | 1 | A | |
| Time 11 15 37 | 1 | G | |
| 38 | 8 | F8 | |
| 39 | 9 | G0 | |
| 40 | 3 | A0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | −19° | 1003 | 4 | 38.0 | −19 | 5.3 | 9.0 | J |
| 28a | −19° | 1001 | 4 | 38.0 | −19 | 5.4 | 8.9 | J |
| 29 | −19° | 1004 | 4 | 38.2 | −19 | 10.9 | 8.7 | J |
| 30 | −18° | 910 | 4 | 38.7 | −18 | 26.0 | 8.6 | J |
| 31 | −18° | 916 | 4 | 40.0 | −18 | 5.3 | 7.7 | J |
| 32 | −17° | 945 | 4 | 39.1 | −17 | 35.21 | 8.5 | J |
| 33 | −16° | 944 | 4 | 39.5 | −16 | 47.2 | 8.7 | J |
| 34 | −16° | 947 | 4 | 40.5 | −16 | 25.4 | 8.5 | J |
| 35 | −17° | 942 | 4 | 38.6 | −17 | 39.1 | 8.8 | J |
| 36 | −14° | 923 | 4 | 25.6 | −14 | 44.8 | 9.1 | J |
| 37 | −14° | 928 | 4 | 29.2 | −14 | 7.9 / 7.5 | 9.2 | J |

Identified by AMC. Dec. 31, 1913
Checked by J.C.M. Jan. 27, 1913
Cards made out by Miss C.W.
Cards checked by J.B.W.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 38 | −16° | 956 | 4 | 42.0 | −16 | 35 | 6.5 | 9 | in B12628 |
| 39 | −17 | 954 | 4 | 41.4 | −17 | 12 | 5.5 | 12 | in " |
| 40 | −13 | 910 | 4 | 25.6 | −13 | 54 | 9.0 | 37 | in B12378 |

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday Dec. 30 1912

Time: 10.17 — P 12628 short disp.

| No. | Int | Class | Remark |
|---|---|---|---|
| 1 | 2 | Ko | |
| 2 | 6 | F2 | |
| 3 | 3 | Ke | |
| 4 | 5 | F2 | |
| 5 | 5 | F5 | |
| 6 | 8 | Ko | |
| 7 | 5 | Ko | |
| 8 | 6 | Ko | |
| 9 | 10+ | ly | Burned out |
| 10 | 1 | ly | |
| 11 | 1/3 | ly | |
| 11a | 1 | ly | Lemaron edge on free side of M |
| 12 | 10+ | ly | Burned out |
| 13 | 2 | K5 | |
| 14 | 5 | F5 | |
| 15 | 2 | Ko | |
| 16 | 3 | A8 | |
| 17 | 5 | K2 | |
| 18 | 1 | K5 | |
| Time: 10.20 19 | 3 | Ko | |
| " 10.27 20 | 5 | Ao | |
| 21 | 3 | Ko | |
| 22 | 3 | A2 | |
| 23 | 3 | F5 | |
| 24 | 4 | Ao | |
| 25 | 2 | Ko | |
| 26 | 4 | ko | |
| 27 | 4 | Ao | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | −15° | 865 | 4 | 41.2 | −15 | 25.7 | 8.2 J |
| 2 | −15° | 867 | 4 | 42.1 | −15 | 29.2 | 8.1 J |
| 3 | −15° | 868 | 4 | 42.7 | −15 | 58.3 | 8.2 J |
| 4 | −15° | 871 | 4 | 43.0 | −15 | 52.0 | 8.5 J |
| 5 | −16° | 960 | 4 | 43.1 | −16 | 3.7 | 8.5 J |
| 6 | −16° | 963 | 4 | 43.6 | −16 | 3.0 | 7.5 J |
| 7 | −15° | 874 | 4 | 44.2 | −15 | 48.8 | 8.5 J |
| 8 | −16° | 958 | 4 | 42.1 | −16 | 25.0 | 8.0 J |
| 9 | −16° | 956 | 4 | 42.0 | −16 | 35.3 | 6.5 V |
| 10 | −17° | 949 | 4 | 40.4 | −17 | 13.1 | 9.0 J |
| 11 | −17° | 952 | 4 | 40.8 | −17 | 30.6 | 9.0 J |
| 12 | −17° | 954 | 4 | 41.1 | −17 | 12.4 | 8.5 J |
| 13 | −17° | 960 | 4 | 42.5 | −17 | 23.7 | 8.2 J |
| 14 | −18° | 921 | 4 | 40.4 | −18 | 40.1 | 7.7 J |
| 15 | −18° | 927 | 4 | 41.9 | −18 | 30.7 | 8.6 J |
| 16 | −19° | 1022 | 4 | 44.2 | −19 | 18.8 | 8.6 J |
| 17 | −19° | 1023 | 4 | 44.4 | −19 | 9.3 | 7.3 J |
| 18 | −18° | 987 | 4 | 44.9 | −18 | 35.4 | 8.5 J |
| 19 | −18° | 949 | 4 | 47.1 | −18 | 3.9 | 8.3 J |
| 20 | −17° | 977 | 4 | 46.1 | −17 | 6.9 | 8.7 J |
| 21 | −17° | 978 | 4 | 46.6 | −17 | 12.7 | 8.7 J |
| 22 | −17° | 984 | 4 | 47.6 | −17 | 14.1 | 8.7 J |
| 23 | −16° | 993 | 4 | 48.9 | −16 | 7.0 | 8.7 J |
| 24 | −16° | 1001 | 4 | 50.9 | −16 | 26.8 | 8.9 J |
| 25 | −16° | 1009 | 4 | 52.0 | −16 | 26.0 | 8.8 J |
| 26 | −15° | 914 | 4 | 52.8 | −15 | 58.1 | 8.4 J |
| 27 | −16° | 917 | 4 | 53.2 | −15 | 35.8 | 9.0 J |

cards made out

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Monday, Dec. 30, 1912.
B 12628 abst disps.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 7 | A0 | |
| 29 | 3 | K2 | |
| 30 | 4 | K0 | |
| 31 | 6 | A2 | |
| 32 | 3 | F2 | |
| 33 | 1 | G | |
| 34 | 7 | F5 | |
| 35 | 5 | G5 | |
| 36 | 6 | F0 | |
| 37 | 3 | K0 | |
| 38 | 4 | K0 | |
| 39 | 2 | K2 | |
| 40 | 6 | K0 | |
| 41 | 4 | A2 | |
| 42 | 5 | A0 | |
| 43 | 1 | K0 | |
| 44 | 2 | G | |
| 45 | 6 | G5 | |
| 46 | 3 | J0 | |
| 47 | 3 | G5 | |
| 48 | 2 | F0 | |
| 49 | 3 | F2 | |
| 50 | 7 | G5 | |
| 51 | 3 | F5 | |
| 52 | 5 | F5 | |
| 53 | 2 | G5 | |
| 54 | 2 | F5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -16° | 1018 | 4 | 53.5 | -16 | 1.0 | 8.3 | ✓ |
| 29 | -16° | 1022 | 4 | 53.7 | -16 | 7.5 | 8.3 | ✓ |
| 30 | -16° | 1024 | 4 | 53.9 | -16 | 18.8 | 8.4 | ✓ |
| 31 | -16° | 1026 | 4 | 53.8 | -16 | 22.5 | 8.0 | ✓ |
| 32 | -15° | 927 | 4 | 56.0 | -15 | 54.8 | 8.5 | ✓ |
| 33 | -16° | 1027 | 4 | 56.4 | -16 | 5.0 | 8.7 | ✓ |
| 34 | -15° | 931 | 4 | 57.2 | -15 | 54.7 | 8.0 | ✓ |
| 35 | -15° | 938 | 4 | 58.0 | -15 | 9.1 | 7.5 | ✓ |
| 36 | -14° | 1025 | 4 | 57.1 | -14 | 50.4 | 8.5 | ✓ |
| 37 | -14° | 1039 | 4 | 59.2 | -14 | 59.0 | 8.5 | ✓ |
| 38 | -14° | 1050 | 4 5 | 0.8 | -14 | 45.0 | 8.3 | ✓ |
| 39 | -15° | 952 | 5 | 2.1 | -15 | 46.8 | 8.5 | ✓ |
| 40 | -15° | 953 | 5 | 2.9 | -15 | 51.0 | 8.3 | ✓ |
| 41 | -16° | 1057 | 5 | 3.5 | -16 | 9.7 | 8.7 | ✓ |
| 42 | -16° | 1060 | 5 | 4.0 | -16 | 10.0 | 8.6 | ✓ |
| 43 | -15° | 962 | 5 | 4.0 | -15 | 58.7 | 8.6 | ✓ |
| 44 | -17° | 990 | 4 5 | 49.1 | -17 | 59.7 | 8.5 | ✓ |
| 45 | -17° | 994 | 4 5 | 49.8 | -17 | 58.0 | 6.8 | ✓ |
| 46 | -18° | 959 | 4 5 | 50.6 | -18 | 20.4 | 7.5 | ✓ |
| 47 | -18° | 962 | 4 5 | 51.2 | -18 | 26.4 | 8.7 | ✓ |
| 48 | -18° | 960 | 4 5 | 50.6 | -18 | 37.8 | 8.3 | ✓ |
| 49 | -18° | 964 | 4 5 | 51.4 | -18 | 42.0 | 9.0 | ✓ |
| 50 | -18° | 966 | 4 5 | 52.3 | -18 | 1.9 | 7.0 | ✓ |
| 51 | -17° | 1009 | 4 5 | 54.3 | -17 | 48.0 | 8.0 | ✓ |
| 52 | -17° | 1011 | 4 5 | 54.9 | -17 | 46.6 | 7.8 | ✓ |
| 53 | -18° | 973 | 4 5 | 53.4 | -18 | 52.5 | 8.2 | ✓ |
| 54 | -18° | 964 | 4 5 | 57.1 | -18 | 24.3 | 8.8 | ✓ |

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Monday. Dec. 30. 1912.

B1262 Short disp.

| No. | Int | Class | Remark |
|---|---|---|---|
| 55 | 8 | Ib3 | |
| 56 | 9 | Fs | |
| 57 | 7 | F10 | |
| 58 | 3 | F0 | |
| 59 | 4 | Fs | |
| 60 | 4 | Fs | |
| 61 | 3 | Fe | |
| 62 | 4 | Fs | |
| 63 | 1 | A | |
| 64 | 1 | Fs | |
| Time: 10.35 65 | 1 | F | |
| " 10.55 66 | 2 | Fs | |
| 67 | 2 | F0 | |
| 68 | 1 | Fe | |
| 69 | 1 | Gs | The n.p. of two. |
| 70 | 2 | Gs | |
| 10.57 71 | 1 | G | |
| 72 | | | |
| 73 | | | |
| 74 | 10 | Fs | |
| 75 | 4 | Fs | |
| 76 | 6 | Fs | |
| 77 | 5 | Ao | |
| 78 | 5 | Ao | Dist. combined with 79 |
| 79 | R | A | Superposed on 78 (the southern star) Dist. comb. with 78 |

79



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | -18° | 990 | 5 | 58.2 | -18 | 5.3 | 7.3 | ✓ |
| 56 | -17° | 1028 | 5 | 0.7 | -17 | 29.5 | 6.5 | ✓ |
| 57 | -17° | 1029 | 5 | 1.3 | -17 | 28.6 | 7.0 | ✓ |
| 58 | -17° | 1030 | 5 | 1.4 | -17 | 25.2 | 8.5 | ✓ |
| 59 | -17° | 1031 | 5 | 2.1 | -17 | 31.3 | 8.0 | ✓ |
| 60 | -18° | 1010 | 5 | 2.1 | -18 | 18.4 | 7.2 | ✓ |
| 61 | -18° | 1011 | 5 | 2.6 | -18 | 5.5 | 8.5 | ✓ |
| 62 | -17° | 1035 | 5 | 2.6 | -17 | 12.5 | 8.8 | (-17° 1084 magn. 9.1 superposed |
| 63 | -16° | 947 | 5 | 0.1 | -15 | 58.8 | 9.0 | ✓ |
| 64 | -16° | 1042 | 4 | 59.9 | -16 | 1.4 | 9.0 | ✓ |
| 65 | -15° | 944 | 4 | 59.6 | -15 | 38.6 | 8.8 | ✓ |
| 66 | -19° | 1103 | 5 | 1.3 | -19 | 13.3 | 8.5 | ✓ |
| 67 | -19° | 1090 | 4 | 58.1 | -19 | 4.9 | 9.0 | ✓ |
| 68 | -19° | 1084 | 4 | 56.9 | -19 | 19.9 | 9.0 | ✓ |
| 69 | -19° | 1066 | 4 | 58.6 | -19 | 2.6 | 9.0 | ✓ |
| 70 | -20° | 964 | 4 | 50.0 | -20 | 17.7 | 9.0 | ✓ |
| 71 | -19° | 1053 | 4 | 50.4 | -19 | 26.7 | 9.0 | ✓ |

Identified by AMC. Jan. 10, 1913

Checked by J.B.W. Jan. 11, 1913

cards made out by M.C.W.

Cards checked by E.R.B.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 74 | -14° | 970 | 4 | 43.0 | -14 | 1 | 6.5 | ✓ |
| 75 | -14° | 981 | 4 | 45.0 | -14 | 50 | 7.8 | ✓ |
| 76 | -13° | 1004 | 4 | 45.7 | -13 | 31 | 7.6 | ✓ |
| 77 | -12° | 1011 | 4 | 45.1 | -12 | 59 | 8.2 | ✓ |
| 78 | -13° | 996 | 4 | 45.0 | -13 | 39 | 8.7 | ✓ |
| 79 | -13° | 997 | 4 | 46.0 | -13 | 40 | 8.9 | ✓ |

Identified on cards by AMC Nov. 20, 1914

Checked by EBM Nov. 21, 1914

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, Dec. 30, 1912.

Time: 12.03

B 14664 short disp.

| No | Ref. | Class | Remark |
|---|---|---|---|
| 1 | 6 | K0 | E. |
| 2 | 2 | A0 | E |
| 3 | 2 | A | E. |
| 4 | 3 | F | E. |
| 5 | 3 | A2 | |
| 6 | 2 | F5 | |
| 7 | 2 | K0 | |
| 8 | 4 | K0 | |
| 9 | 2 | F5 | |
| 10 | 4 | A | E |
| 11 | 1 | A | |
| 12 | 2 | A2 | |
| 13 | 2 | A2 | |
| 14 | 2 | F8 | |
| 15 | 3 | A5 | |
| 16 | 3 | A0 | |
| 17 | 3 | F2 | |
| 18 | 1 | G5 | |
| 19 | 4 | A5 | |
| 20 | 2 | A2 | |
| 21 | 1 | K5 | |
| 22 | 2 | A2 | |
| 23 | 2 | K0 | |
| 24 | 3 | A6 | |
| 25 | 6 | B9 | |
| 26 | 3 | F0 | |
| 27 | 3 | A0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | -2° | 1111 | 4 | 56.4 | -2 | 45.1 | 7.0 ✓ |
| 2 | -4° | 1002 | 4 | 53.7 | -4 | 40.0 | 8.8 ✓ |
| 3 | -5° | 1109 | 4 | 57.1 | -5 | 29.0 | 9.0 ✓ |
| 4 | -5° | 1105 | 4 | 50.8 | -5 | 36.0 | 8.9 ✓ |
| 5 | -6° | 1044 | 4 | 52.3 | -6 | 0.0 | 9.0 ✓ |
| 6 | -6° | 1040 | 4 | 51.6 | -6 | 29.7 | 8.8 ✓ |
| 7 | -6° | 1034 | 4 | 50.3 | -6 | 39.1 | 8.6 ✓ |
| 8 | -6° | 1024 | 4 | 48.5 | -6 | 20.5 | 8.0 ✓ |
| 9 | -6° | 1027 | 4 | 48.5 54.8 | -6 | 40.8 54.6 | 8.6 ✓ |
| 10 | -6° | 1019 | 4 | 47.2 | -6 | 49.7 | 8.3 ✓ |
| 11 | -7° | 941 | 4 | 52.1 | -7 | 17.2 | 9.1 ✓ |
| 12 | -6° | 1063 | 4 | 54.7 | -6 | 50.8 | 8.8 ✓ |
| 13 | -6° | 1064 | 4 | 54.9 | -6 | 39.2 | 8.6 ✓ |
| 14 | -6° | 1071 | 4 | 56.1 | -6 | 50.5 | 8.5 ✓ |
| 15 | -5° | 1135 | 4 | 58.6 | -5 | 55.0 | 8.8 ✓ |
| 16 | -5° | 1138 | 4 | 56.5 | -5 | 21.8 | 8.7 ✓ |
| 17 | -5° | 1125 | 4 | 54.3 | -5 | 25.7 | 8.5 ✓ |
| 18 | -5° | 1126 | 4 | 54.4 | -5 | 47.7 | 9.1 ✓ |
| 19 | -5° | 1124 | 4 | 54.3 | -5 | 54.6 | 9.0 ✓ |
| 20 | -5° | 1118 | 4 | 58.1 | -5 | 25.5 | 9.0 ✓ |
| 21 | -4° | 998 | 4 | 52.6 | -4 | 35.1 | 8.7 ✓ |
| 22 | -7° | 947 | 4 | 53.7 | -7 | 44.9 | 9.0 ✓ |
| 23 | -7° | 961 | 4 | 56.2 | -7 | 30.3 | 8.5 ✓ |
| 24 | -8° | 1014 | 4 | 56.1 | -8 | 7.6 | 8.8 ✓ |
| 25 | -8° | 1011 | 4 | 55.9 | -8 | 24.9 | 8.0 ✓ |
| 26 | -8° | 1019 | 4 | 57.4 | -8 | 26.1 | 8.5 ✓ |
| 27 | -8° | 1021 | 4 | 57.8 | -8 | 34.0 | 9.0 ✓ |

cards made out

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Monday Dec. 30 1912.

$\beta$ 14664 clear disp.

| Hr. | Int. | Class | Remarks |
|---|---|---|---|
| 28 | 3 | Ia | |
| 29 | 3 | Ao | |
| 30 | 5 | Ao | |
| 31 | 3 | Ao | |
| 32 | 2 | Ia5 | |
| 33 | 1 | K | |
| 34 | 2 | A2 | |
| 35 | 2 | Ko | |
| 36 | 1 | Ko | |
| 37 | 2 | K5 | |
| 38 | 1 | K | |
| 39 | 2 | Ia5 | |
| 40 | 1 | A3 | |
| 41 | 2 | Ao | |
| 42 | 2 | A | Partly superposed on 43. |
| 43 | 2 | Ao | |
| 44 | 3 | Ia | |
| 45 | 2 | Ia5 | |
| 46 | 2 | K2 | |
| 47 | 2 | Ao | |
| 48 | 2 | Ao | |
| 49 | 2 | Ko | |
| 50 | 2 | Ao | |
| 51 | 1 | A | |
| 52 | 3 | Ao | |
| 53 | 2 | Ao | |
| 54 | 2 | K5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | −8° | 1022.4 | 57.9 | −8 | 30.0 | 8.8 | ✓ |
| 29 | −8° | 1025 4 | 58.2 | −8 | 29.7 | 9.0 | ✓ |
| 30 | −8° | 1023 4 | 58.1 | −8 | 45.6 | 8.4 | ✓ |
| 31 | −7° | 974 4 | 59.4 | −7 | 55.9 | 8.5 | ✓ |
| 32 | −6° | 1081 4 | 58.0 | −6 | 43.6 | 8.4 | ✓ |
| 33 | −7° | 970 4 | 58.7 | −7 | 0.3 | 8.4 | ✓ |
| 34 | −6° | 1086 4 | 59.3 | −6 | 30.8 | 8.8 | ✓ |
| 35 | −4° | 1032 4 | 57.8 | −4 | 7.5 | 8.9 | ✓ |
| 36 | −3° | 998 4 | 57.0 | −3 | 36.6 | 8.5 | ✓ |
| 37 | −4° | 1042 4 | 59.5 | −4 | 41.6 | 8.3 | ✓ |
| 38 | −5° | 1168 5 | 1.8 | −5 | 10.9 | 9.0 | ✓ |
| 39 | −5° | 1177 5 | 3.5 | −5 | 7.5 | 8.8 | ✓ |
| 40 | −5° | 1181 5 | 4.1 | −5 | 29.7 | 9.5 | ✓ |
| 41 | −4° | 1068 5 | 5.6 | −4 | 50.8 | 9.0 | ✓ |
| 42 | −5° | 1191 5 | 6.2 | −5 | 9.1 | 9.0 | ✓ |
| 43 | −5° | 1190 5 | 6.2 | −5 | 15.8 | 9.0 | ✓ |
| 44 | −5° | 1197 5 | 6.7 | −5 | 23.1 | 9.0 | ✓ |
| 45 | −5° | 1198 5 | 6.8 | −5 | 3.0 | 9.0 | ✓ |
| 46 | −5° | 1201 5 | 7.2 | −5 | 26.0 | 8.5 | ✓ |
| 47 | −5° | 1204 5 | 8.0 | −5 | 25.4 | 9.0 | ✓ |
| 48 | −4° | 1079 5 | 7.7 | −4 | 48.1 | 9.0 | ✓ |
| 49 | −4° | 1077 5 | 7.5 | −4 | 9.8 | 8.5 | ✓ |
| 50 | −4° | 1081 5 | 8.1 | −4 | 5.2 | 9.1 | ✓ |
| 51 | −4° | 1085 5 | 8.9 | −4 | 37.7 | 9.2 | ✓ |
| 52 | −4° | 1090 5 | 10.4 | −4 | 53.8 | 8.7 | ✓ |
| 53 | −4° | 1093 5 | 10.8 | −4 | 39.6 | 9.0 | ✓ |
| 54 | −4° | 1095 5 | 11.0 | −4 | 35.9 | 9.0 | ✓ |

Cards run a de out

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Monday, Dec. 30 1912

D 14664 shot onto

| No | Int. | Class | Remark |
|---|---|---|---|
| 55 | 4 | A0 | |
| 56 | 3 | A0 | |
| 57 | 4 | F5 | |
| 58 | 2 | G5 | |
| 59 | 5 | B8 | |
| 60 | 3 | A0 | |
| 61 | 3 | G5 | A star partly superposed - n. ✓ following ✓ |
| 62 | 3 | B9 | |
| 63 | 4 | A3 | |
| 64 | 2 | A2 | |
| 65 | 2 | K5 | |
| 66 | 3 | K2 | |
| 67 | 2 | A | E. |
| 68 | 4 | A0 | |
| 69 | 2 | K5 | |
| 70 | 3 | A2 | |
| 71 | 3 | A0 | |
| 72 | 5 | A5 | |
| 73 | 7 | A5 | |
| 74 | 3 | K5 | |
| 75 | 1 | A | |
| 76 | 3 | A0 | |
| 77 | 2 | F5 | |
| 78 | 2 | K5 | |
| 79 | 2 | A0 | |
| 80 | 3 | B9 | |
| 81 | 3 | A3 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | -4° | 1102 | 5 | 12.3 | -4 | 29.6 | 8.5 ✓ |
| 56 | -5° | 1219 | 5 | 12.0 | -5 | 7.5 | 8.6 ✓ |
| 57 | -4° | 1105 | 5 | 13.2 | -4 | 56.8 | 8.5 ✓ |
| 58 | -5° | 1220 | 5 | 12.3 | -5 | 35.9 | 8.5 ✓ |
| 59 | -6° | 1141 | 5 | 13.0 | -6 | 0.2 | 8.5 ✓ |
| 60 | -5° | 1226 | 5 | 13.4 | -5 | 57.9 | 9.0 ✓ |
| 61 | -5° | 1228 | 5 | 13.5 | -5 | 58.7 | 8.5 J -5° 1229 Superposed |
| 62 | -5° | 1227 | 5 | 13.4 | -5 | 26.2 | 9.0 ✓ |
| 63 | -4° | 1113 | 5 | 16.7 | -4 | 42.3 | 8.4 ✓ |
| 64 | -5° | 1256 | 5 | 20.0 | -5 | 6.5 | 9.1 ✓ |
| 65 | -5° | 1259 | 5 | 20.5 | -5 | 22.3 | 8.5 ✓ |
| 66 | -5° | 1268 | 5 | 22.0 | -5 | 33.9 | 8.0 ✓ |
| 67 | -5° | 1277 | 5 | 23.6 | -5 | 36.7 | 8.5 ✓ |
| 68 | -5° | 1251 | 5 | 19.4 | -5 | 46.5 | 8.5 ✓ |
| 69 | -6° | 1176 | 5 | 18.9 | -6 | 7.5 | 8.0 ✓ |
| 70 | -6° | 1158 | 5 | 15.9 | -6 | 51.1 | 8.5 ✓ |
| 71 | -6° | 1163 | 5 | 16.7 | -6 | 58.7 | 8.5 ✓ |
| 72 | -6° | 1166 | 5 | 17.2 | -6 | 56.9 | 8.1 ✓ |
| 73 | -7° | 1075 | 5 | 19.0 | -7 | 5.7 | 8.5 ✓ |
| 74 | -7° | 1071 | 5 | 18.3 | -7 | 49.9 | 8.0 ✓ |
| 75 | -7° | 1076 | 5 | 19.4 | -7 | 24.9 | 9.0 ✓ |
| 76 | -7° | 1063 | 5 | 20.6 | -7 | 0.8 | 9.0 ✓ |
| 76 | -6° | 1163 | 5 | 16.7 | -6 | 58.7 | 8.5 ✓ |
| 77 | -6° | 1181 | 5 | 19.8 | -6 | 39.8 | 9.0 ✓ |
| 78 | -6° | 1180 | 5 | 19.6 | -6 | 37.5 | 8.5 J |
| 79 | -7° | 1058 | 5 | 16.3 | -7 | 22.3 | 9.2 J |
| 80 | -7° | 1054 | 5 | 15.6 | -7 | 44.6 | 8.0 ✓ |
| 81 | -8° | 1102 | 5 | 15.9 | -8 | 2.0 | 9.1 ✓ |

magn. 9.0

Cards made out

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Monday Dec. 30 1912.

B14664 short disp

| No | Int. | Class | Remark |
|---|---|---|---|
| 82 | 4 | Ao | |
| 83 | 1 | Ko | |
| 84 | 5 | Kfp | Many resemble 32 Gruis. |
| 85 | 3 | Ao | |
| 86 | 7 | F2 | |
| 87 | 2 | Ko | |
| 88 | 5 | Ao | |
| 89 | 2 | Ao | |
| 90 | 3 | Ao | |
| 91 | 4 | Ao | |
| 92 | 3 | Ao | |
| 93 | 7 | B9 | |
| 94 | 4 | A3 | |
| 95 | 2 | Ao | |
| 96 | 3 | K5 | |
| 97 | 3 | Ko | |
| 98 | 2 | F5 | |
| 99 | 4 | F0 | |
| 100 | 7 | Ao | |
| 101 | 4 | Ao | |
| 102 | 4 | K0 | |
| 103 | 4 | A2 | |
| 104 | 8 | F5 | |
| 105 | 7 | B9 | |
| 106 | 5 | A5 | |
| 107 | 2 | Ao | |
| 108 | 2 | Ao | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | -8° | 1103 | 5 | 15.9 | -8 | 14.1 | 8.8 |
| 83 | -8° | 1100 | 5 | 15.4 | -8 | 24.0 | 9.0 |
| 84 | -8° | 1099 | 5 | 15.4 | -8 | 48.1 | 7.0 |
| 85 | -8° | 1096 | 5 | 14.2 | -8 | 26.7 | 9.0 |
| 86 | -8° | 1092 | 5 | 13.4 | -8 | 10.4 | 8.0 -8° 1093 8.0 Superposed |
| 87 | -7° | 1051 | 5 | 14.8 | -7 | 48.4 | 8.7 |
| 88 | -7° | 1049 | 5 | 14.2 | -7 | 37.6 | 8.0 |
| 89 | -7° | 1044 | 5 | 13.2 | -7 | 22.4 | 9.0 |
| 90 | -7° | 1043 | 5 | 13.2 | -7 | 15.8 | 8.6 |
| 91 | -7° | 1041 | 5 | 12.8 | -7 | 4.6 | 8.4 |
| 92 | -7° | 1042 | 5 | 12.8 | -7 | 16.2 | 8.5 |
| 93 | -7° | 1036 | 5 | 12.3 | -7 | 30.4 | 8.0 |
| 94 | -7° | 1033 | 5 | 11.7 | -7 | 53.7 | 8.0 |
| 95 | -8° | 1087 | 5 | 12.5 | -8 | 8.2 | 9.1 |
| 96 | -8° | 1079 | 5 | 11.0 | -8 | 22.9 | 8.0 |
| 97 | -8° | 1078 | 5 | 10.8 | -8 | 48.7 | 8.4 |
| 98 | -8° | 1073 | 5 | 9.7 | -8 | 35.1 | 8.8 |
| 99 | -9° | 1125 | 5 | 12.6 | -9 | 35.8 | 8.5 |
| 100 | -9° | 1126 | 5 | 12.7 | -9 | 51.8 | 8.0 |
| 101 | -9° | 1124 | 5 | 12.4 | -9 | 55.7 | 9.3 |
| 102 | -10° | 1150 | 5 | 12.1 | -10 | 14.9 | 8.6 |
| 103 | -10° | 1149 | 5 | 11.8 | -10 | 40.4 | 8.4 |
| 104 | -10° | 1152 1153 | 5 | 12.5 | -10 | 54.2 | 8.5 |
| 105 | -11° | 1134 | 5 | 12.9 | -11 | 10.7 | 8.2 |
| 106 | -10° | 1159 | 5 | 13.8 | -10 | 40.8 | 8.7 |
| 107 | -10° | 1163 | 5 | 14.7 | -10 | 11.7 | 9.0 |
| 108 | -9° | 1137 | 5 | 15.3 | -9 | 14.5 | 9.0 |

Cards made out

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Tuesday, Dec. 30, 1912

B14664 clear cirs.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 2 | Ma | |
| 110 | 2 | A2 | |
| 111 | 3 | A3 | |
| 112 | 5 | F5 | |
| 113 | 7 | F0 | |
| 114 | 3 | A0 | |
| 115 | 2 | F5 | |
| 116 | 3 | A0 | |
| 117 | 1 | A | |
| 118 | 7 | A0 | |
| 119 | 3 | A0 | |
| 120 | 10 | B9 | |
| 121 | 2 | A | E. |
| 122 | 2 | B9 | |
| 123 | 4 | K0 | |
| 124 | 2 | K0 | |
| 125 | 2 | K0 | |
| 126 | 3 | F8 | |
| 127 | 6 | A0 | |
| 128 | 4 | F5 | |
| 129 | 1 | F8 | |
| 130 | 2 | F0 | |
| 131 | 2 | A | |
| 132 | 1 | F5 | |
| 133 | 3 | kp | |
| 134 | 2 | kp5 | |
| 135 | 1 | kp | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 109 | -9° | 1139 | 5 | 16.4 -9 | 28.3 | 8.6 ✓ |
| 110 | -9° | 1145 | 5 | 17.9 -9 | 22.0 | 9.0 ✓ |
| 111 | -8° | 1117 | 5 | 18.1 -8 | 51.2 | 9.0 ✓ |
| 112 | -9° | 1153 | 5 | 19.1 -9 | 13.1 | 8.0 ✓ |
| 113 | -9° | 1150 | 5 | 18.8 -9 | 40.7 | 8.0 ✓ |
| 114 | -10° | 1179 | 5 | 18.3 -10 | 4.4 | 9.0 ✓ |
| 115 | -10° | 1185 | 5 | 19.0 -10 | 24.9 | 8.5 ✓ |
| 116 | -10° | 1175 | 5 | 17.0 -10 | 8.0 | 9.0 ✓ |
| 117 | -9° | 1143 | 5 | 17.3 -9 | 58.4 | 9.0 ✓ |
| 118 | -10° | 1174 | 5 | 16.7 -10 | 33.4 | 8.0 ✓ |
| 119 | -9° | 1081 | 5 | 1.2 -9 | 17.7 | 8.5 ✓ |
| 120 | -8° | 1085 | 5 | 0.5 -8 | 50.4 | 7.5 ✓ |
| 121 | -9° | 1086 | 5 | 3.0 -9 | 17.5 | 9.0 ✓ |
| 122 | -9° | 1091 | 5 | 4.2 -9 | 35.1 | 9.0 ✓ |
| 123 | -9° | 1094 | 5 | 5.0 -9 | 16.2 | 8.0 ✓ |
| 124 | -9° | 1095 | 5 | 5.1 -9 | 7.3 | 8.5 ✓ |
| 125 | -9° | 1099 | 5 | 6.1 -9 | 0.1 | 8.4 ✓ |
| 126 | -7° | 997 | 5 | 4.6 -7 | 59.8 | 8.5 ✓ |
| 127 | -8° | ~~1057~~ 1057 | 5 | ~~6.0~~ 6.0 -8 | ~~14.1~~ 14.1 | 8.0 ✓ Thought this 1057 was ~~7.0~~ 6.0 when omitted from sets 1 & 2. |
| 128 | -7° | 1010 | 5 | 7.5 -7 | 51.7 | 8.5 ✓ |
| 129 | -7° | 1013 | 5 | 7.9 -7 | 52.0 | 8.5 ✓ |
| 130 | -7° | 1018 | 5 | 9.1 -7 | 35.9 | 8.5 ✓ |
| 131 | -6° | 1128 | 5 | 9.5 -6 | 45.0 | 9.0 ✓ |
| 132 | -5° | 1203 | 5 | 7.9 -5 | 53.2 | 9.0 ✓ |
| 133 | -5° | 1207 | 5 | 9.0 -5 | 45.1 | 8.3 ✓ |
| 134 | -5° | 1210 | 5 | 9.8 -5 | 47.7 | 8.5 ✓ |
| 135 | -6° | 1132 | 5 | 10.7 -6 | 47.3 | 8.5 ✓ |

cards made out

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Monday, Dec. 30, 1912.
B14664 short exps.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 1 | A | |
| 137 | 1 | A | |
| 138 | 2 | A2 | |
| 139 | 1 | $I_5$ | |
| 140 | 1 | $I_5$ | |
| 141 | 1 | $I'$ | |
| 142 | 2 | $I_2$ | |
| 143 | 2 | $B_9$ | |
| 144 | 6 | $I_0$ | |
| 145 | 5 | $A_2$ | |
| 146 | 8 | Comp. $B_9$ = $I_5$ $I'$ = $A_2$ $I_5$ = $a_3$ $I'$ | |
| Time 12.33 | 147 | 4 | $I'_0$ |
| | 148 | | |
| | 14 | | |

Tues. May 7, 1916

| | | | |
|---|---|---|---|
| 148 | 5 | $B_9$ | |
| 149 | 3 | $A_0$ | |
| 150 | 3 | $I_0$ | |
| 151 | 4 | $B_9$ | |
| 152 | 3 | $B_9$ | |
| 153 | 3 | $A_x$ | |
| 154 | 5 | $B_8$ | |
| 155 | 2 | $A_0$ | |
| 156 | 6 | $A_0$ | |
| 157 | 4 | $A_0$ | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 136 | -6° | 1140 | 5 | 12.6 | -6 | 16.6 | 9.3 | ✓ |
| 137 | -6° | 1143 | 5 | 13.3 | -6 | 27.5 | 9.0 | ✓ |
| 138 | -6° | 1145 | 5 | 13.4 | -6 | 34.7 | 9.0 | ✓ |
| 139 | -6° | 1165 | 5 | 16.9 | -6 | 1.7 | 8.4 | ✓ |
| 140 | -5° | 1244 | 5 | 17.6 | -5 | 40.7 | 9.0 | ✓ |
| 141 | -5° | 1245 | 5 | 18.5 | -5 | 17.4 | 8.5 | ✓ |
| 142 | -8° | 1085 | 5 | 12.1 | -8 | 48.4 | 9.1 | ✓ |
| 143 | -9° | 1119 | 5 | 11.8 | -9 | 12.4 | 9.0 | ✓ |
| 144 | -10° | 1131 | 5 | 7.6 | -10 | 35.5 | 7.5 | ✓ |
| 145 | -11° | 1105 | 5 | 6.7 | -11 | 29.3 | 8.5 | ✓ |
| 146 | -11° | 1117 | 5 | 9.4 | -11 | 31.0 | 7.0 | ✓ |
| 147 | -11° | 1119 | 5 | 9.7 | -11 | 25.1 | 8.0 | ✓ |

Identified by AMC. Jan. 9, 1913
Checked by J. C. M. Jan. 27, 1913
cards made out by M. C. W.
Cards checked from 113-147 by EBWB.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ✓ | 148 | -7° | 1024 | 5 | 9.9 | -7 | 6 | 8.0 | 116 | m B17409 |
| ✓ | 149 | -7° | 1016 | 5 | 8.6 | -7 | 6 | 8.7 | 114 | " " |
| ✓ | 150 | -7° | 989 | 5 | 3.0 | -7 | 15 | 8.7 | 109 | " " |
| ✓ | 151 | -7° | 985 | 5 | 1.9 | -7 | 22 | 7.5 | 108 | " " |
| ✓ | 152 | -5° | 1179 | 5 | 4.0 | -5 | 47 | 9.0 | 96 | " " |
| ✓ | 153 | -5° | 1208 | 5 | 9.4 | -5 | 14 | 8.7 | 101 | " " |
| ✓ | 154 | -2° | 1144 | 5 | 1.1 | -2 | 29 | 8.5 | 53 | " " |
| ✓ | 155 | -10° | 1117 | 5 | 4.6 | -10 | 11 | 9.0 | 338 | " B24605 |
| ✓ | 156 | -11° | 1098 | 5 | 5.2 | -11 | 8 | 7.8 | 334 | " " |
| | 157 | -8° | 1013 | 4 | 56.1 | -8 | 52 | 7.0 | | |

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday. Dec. 31. 1913.

Time: 10.00

B 3970 4 short exps

| Nr | Int. | Class | Remark |
|---|---|---|---|
| 1 | 3 | K2 | |
| 2 | 5 | K0 | |
| 3 | 2 | A3 | |
| 4 | 4 | G5 | |
| 5 | 3 | G0 | |
| 6 | 4 | G0 | |
| 7 | 2 | Wa | |
| 8 | 3 | A0 | |
| 9 | 3 | A3 | |
| 10 | 2 | F | |
| 11 | 3 | G5 | |
| 12 | 5 | K0 | |
| 13 | 3 | F | |
| 14 | 2 | G0 | |
| 15 | 1 | G5 | |
| 16 | 2 | K2 | |
| 17 | 2 | F5 | |
| 18 | 2 | K0 | The n.f. of two. |
| 19 | 2 | K0 | |
| 20 | 3 | A2 | |
| 21 | 4 | G0 | |
| 22 | 2 | K0 | |
| 23 | 3 | K0 | |
| 24 | 1 | K0 | |
| 25 | 3 | K0 | |
| 26 | 2 | A0 | |
| 27 | 3 | K0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | −15° | 1047 | 5 | 21.0 | −15 | 22.6 | 8.7 | ✓ |
| 2 | −15° | 1037 | 5 | 20.1 | −15 | 16.1 | 8.3 | ✓ |
| 3 | −15° | 1036 | 5 | 19.8 | −15 | 35.5 | 9.1 | ✓ |
| 4 | −15° | 1035 | 5 | 19.6 | −15 | 36.0 | 8.5 | ✓ |
| 5 | −16° | 1139 | 5 | 19.2 | −16 | 5.5 | 8.5 | ✓ |
| 6 | −16° | 1141 | 5 | 19.6 | −16 | 45.6 | 8.5 | ✓ |
| 7 | −16° | 1137 | 5 | 19.0 | −16 | 44.5 | 8.7 | ✓ |
| 8 | −16° | 1128 | 5 | 17.7 | −16 | 35.3 | 9.0 | ✓ |
| 9 | −16° | 1125 | 5 | 17.2 | −16 | 32.1 | 9.0 | ✓ |
| 10 | −15° | 1027 | 5 | 17.8 | −15 | 36.5 | 9.0 | ✓ |
| 11 | −15° | 1026 | 5 | 17.3 | −15 | 14.5 | 8.9 | ✓ |
| 12 | −14° | 1117 | 5 | 16.7 | −14 | 58.5 | 8.2 | ✓ |
| 13 | −15° | 1022 | 5 | 16.3 | −15 | 9.8 | 9.0 | ✓ |
| 14 | −15° | 1020 | 5 | 15.4 | −15 | 36.8 | 9.0 | ✓ |
| 15 | −14° | 1113 | 5 | 15.8 | −14 | 32.3 | 9.4 | ✓ |
| 16 | −14° | 1109 | 5 | 15.4 | −14 | 43.5 | 9.1 | ✓ |
| 17 | −15° | 1017 | 5 | 14.3 | −15 | 2.3 | 9.1 | ✓ |
| 18 | −14° | 1099 | 5 | 13.9 | −14 | 44.0 | 9.0 | ✓ |
| 19 | −14° | 1100 | 5 | 14.3 | −14 | 14.5 | 9.2 | ✓ |
| 20 | −14° | 1096 | 5 | 13.5 | −14 | 7.8 | 9.2 | ✓ |
| 21 | −13° | 1128 | 5 | 13.0 | −13 | 44.7 | 8.5 | ✓ |
| 22 | −14° | 1098 | 5 | 12.1 | −14 | 10.3 | 8.9 | ✓ |
| 23 | −13° | 1121 | 5 | 12.0 | −13 | 57.2 | 8.6 | ✓ |
| 24 | −13° | 1125 | 5 | 12.7 | −13 | 16.5 | 9.0 | ✓ |
| 25 | −13° | 1123 | 5 | 12.6 | −13 | 7.5 | 8.5 | ✓ |
| 26 | −13° | 1113 | 5 | 10.0 | −13 | 49.8 | 9.1 | ✓ |
| 27 | −14° | 1084 | 5 | 9.9 | −14 | 1.8 | 9.1 | ✓ |

Cards made out

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Tuesday Dec. 31 1912.

B 39 704 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 1 | K2 | |
| 29 | 3 | F6 | |
| 30 | 3 | F0 | |
| 31 | 2 | G5 | |
| 32 | 1 | G5 | |
| 33 | 1 | K | |
| 34 | 4 | F5 | |
| 35 | 4 | A3 | |
| 36 | 3 | A0 | |
| 37 | 3: | F5 | |
| 38 | 3 | F0 | |
| 39 | 4 | G5 | |
| 40 | 3 | G0 | |
| 41 | 2 | F5 | |
| 42 | 2 | G5 | |
| 43 | 2 | G0 | |
| 44 | 4 | K2 | |
| 45 | 2 | G5 | |
| 46 | 2 | G0 | |
| 47 | 4 | A3 | |
| 48 | 6 | G0 | The following of two. |
| 49 | 3 | F0 | |
| 50 | 8 | G0 | |
| 51 | 5 | A0 | |
| 52 | 2 | F0 | |
| 53 | 2 | A3 | |
| 54 | 3 | G5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | -14° | 1083 | 5 | 9.9 | -14 | 20.5 | 9.0 ✓ |
| 29 | -15° | 995 | 5 | 10.4 | -15 | 5.7 | 9.0 ✓ |
| 30 | -15° | 993 | 5 | 10.2 | -15 | 14.9 | 9.0 ✓ |
| 31 | -15° | 989 | 5 | 9.7 | -15 | 30.4 | 9.1 ✓ |
| 32 | -15° | 991 | 5 | 9.9 | -15 | 40.0 | 9.3 ✓ |
| 33 | -15° | 987 | 5 | 9.6 | -15 | 24.0 | 9.5 ✓ |
| 34 | -15° | 986 | 5 | 8.6 | -15 | 23.4 | 8.5 ✓ |
| 35 | -15° | 984 | 5 | 8.5 | -15 | 15.8 | 9.0 ✓ |
| 36 | -15° | 981 | 5 | 8.4 | -15 | 58.5 | 9.0 ✓ |
| 37 | -15° | 977 | 5 | 7.6 | -15 | 48.9 | 8.5 ✓ |
| 38 | -16° | 1079 | 5 | 7.6 | -16 | 17.8 | 9.0 ✓ |
| 39 | -16° | 1073 | 5 | 6.5 | -16 | 2.5 | 8.2 ✓ |
| 40 | -15° | 969 | 5 | 5.8 | -15 | 48.3 | 9.0 ✓ |
| 41 | -16° | 1066 | 5 | 5.4 | -16 | 3.9 | 9.0 ✓ |
| 42 | -15° | 963 | 5 | 4.8 | -15 | 54.5 | 9.0 ✓ |
| 43 | -16° | 1062 962 | 5 | 4.2 | -16 | 8.4 | 9.0 ✓ |
| 44 | -16° | 1060 | 5 | 4.0 | -16 | 10.0 | 8.6 ✓ |
| 45 | -15° | 962 | 5 | 4.0 | -15 | 53.7 | 8.6 ✓ |
| 46 | -16° | 1056 | 5 | 3.5 | -16 | 17.2 | 8.8 ✓ |
| 47 | -16° | 1057 | 5 | 3.5 | -16 | 9.7 | 8.7 ✓ |
| 48 | -15° | 953 | 5 | 2.9 | -15 | 51.0 | 8.3 ✓ |
| 49 | -15° | 952 | 5 | 2.1 | -15 | 40.8 | 8.5 ✓ |
| 50 | -15° | 950 | 5 | 1.6 | -15 | 17.5 | 6.5 ✓ |
| 51 | -14° | 1055 | 5 | 2.5 | -14 | 55.2 | 8.3 ✓ |
| 52 | -15° | 944 | 4 | 59.6 | -15 | 38.6 | 8.8 ✓ |
| 53 | -15° | 947 | 5 | 0.1 | -15 | 58.8 | 9.0 ✓ |
| 54 | -16° | 1042 | 4 | 59.9 | -16 | 1.4 | 9.0 ✓ |

Conds made out

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Tuesday, Dec. 31, 1912.

13 39704 short exp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 2 | F | Four faint. |
| 56 | 2 | F0 | |
| 57 | 2 | F0 | |
| 58 | 2 | F0 | |
| 59 | 3 | F8 | |
| 60 | 1 | G5 | The following of two. |
| 61 | 2 | G5 | (The middle of three) |
| 62 | 3 | F0 | |
| 63 | 2 | F5 | Two stars superposed? |
| 64 | 3 | G0 | |
| 65 | 3 | F5 | |
| 66 | 2 | F3 | |
| 67 | 3 | A3 | |
| 68 | 2 | F0 | |
| 69 | 3 | F5 | |
| 70 | 1 | G5 | |
| 71 | 1 | G5 | |
| 72 | 1 | G5 | |
| 73 | 3 | G5 | |
| 74 | 4 | A0 | |
| 75 | 2 | G0 | |
| 76 | 4 | K0 | |
| 77 | 2 | G5 | |
| 78 | 1 | F0 | |
| 79 | 2 | F2 | |
| 80 | 3 | G5 | |
| 81 | 2 | G0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | -16° | 1038 | 4 | 59.0 | -16 | 5.4 | 9.0 | ✓ |
| 56 | -16° | 1034 | 4 | 58.4 | -16 | 12.4 | 8.7 | ✓ |
| 57 | -16° | 1053 | 5 | 2.5 | -16 | 12.4 | 8.9 | ✓ |
| 58 | -17° | 1041 | 5 | 4.9 | -17 | 13.7 | 8.8 | ✓ |
| 59 | -16° | 1089 | 5 | 9.5 | -16 | 31.0 | 8.3 | ✓ |
| 60 | -16° | 1083 | 5 | 8.7 | -16 | 3.3 | 9.0 | ✓ |
| 61 | -16° | 1095 | 5 | 11.6 | -16 | 21.7 | 9.0 | ✓ |
| 62 | -15° | 1014 | 5 | 13.4 | -15 | 46.0 | 8.0 | ✓ |
| 63 | -14° | 1141 | 5 | 21.4 | -14 | 53.8 | 9.0 | ✓ |
| 64 | -14° | 1136 | 5 | 20.7 | -14 | 49.1 | 8.8 | ✓ |
| 65 | -14° | 1134 | 5 | 20.3 | -14 | 25.0 | 8.7 | ✓ |
| 66 | -14° | 1131 | 5 | 19.8 | -14 | 40.8 | 9.0 | ✓ |
| 67 | -14° | 1129 | 5 | 19.1 | -14 | 36.6 | 9.3 | ✓ |
| 68 | -14° | 1128 | 5 | 19.0 | -14 | 33.9 | 9.0 | ✓ |
| 69 | -14° | 1124 | 5 | 18.4 | -14 | 24.7 | 8.5 | ✓ |
| 70 | -14° | 1121 | 5 | 17.5 | -14 | 1.0 | 9.4 | ✓ |
| 71 | -14° | 1115 | 5 | 16.2 | -14 | 3.2 | 9.4 | ✓ |
| 72 | -14° | 1110 | 5 | 15.5 | -14 | 11.8 | 9.3 | ✓ |
| 73 | -14° | 1107 | 5 | 15.3 | -14 | 1.2 | 8.6 | ✓ |
| 74 | -13° | 1141 | 5 | 17.2 | -13 | 8.7 | 9.2 | ✓ |
| 75 | -12° | 1154 | 5 | 17.3 | -12 | 15.7 | 9.0 | ✓ |
| 76 | -12° | 1150 | 5 | 16.8 | -12 | 6.9 | 9.0 | ✓ |
| 77 | -12° | 1152 | 5 | 16.9 | -12 | 0.6 | 9.0 | ✓ -12° 1151 Diffuse mag. 9.0 superposed. |
| 78 | -11° | 1160 | 5 | 16.9 | -11 | 56.3 | 9.0 | ✓ |
| 79 | -11° | 1156 | 5 | 16.2 | -11 | 29.3 | 9.3 | ✓ |
| 80 | -12° | 1142 | 5 | 15.4 | -12 | 16.3 | 8.7 | ✓ |
| 81 | -11° | 1148 | 5 | 15.0 | -11 | 54.0 | 9.4 | ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, Dec. 31 1912

B 39704 short exp.

| Hr | Dst. | Class | Remark |
|---|---|---|---|
| 82 | 4 | A0 | |
| 83 | 2 | A2 | |
| 84 | 3 | F2 | |
| 85 | 3 | Bg | |
| 86 | 1 | K0 | |
| 87 | 3 | K0 | |
| 88 | 3 | A2 | |
| 89 | 2 | B3? | Almost cont. |
| 90 | 2 | K5 | |
| 91 | 3 | A3 | |
| 92 | 3 | A0 | |
| 93 | 2 | F2 | |
| 94 | 4 | G0 | |
| 95 | 3 | A0 | |
| 96 | 1 | K | |
| 97 | 5 | G5 | |
| 98 | 6 | G5 | |
| 99 | 8 | G8 | |
| 100 | 2 | F8 | |
| 101 | 3 | G5 | |
| 102 | 2 | F5 | |
| 103 | 2 | A0 | |
| 104 | 4 | F2 | |
| 105 | 2 | F5 | |
| 106 | 1 | A | |
| 107 | 3 | K0 | |
| 108 | 3 | A5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | -11° | 1147 | 5 | 14.8 | -11 | 37.5 | 9.0 ✓ |
| 83 | -11° | 1143 | 5 | 13.8 | -11 | 22.3 | 9.5 ✓ |
| 84 | -11° | 1138 | 5 | 13.4 | -11 | 13.0 | 8.5 ✓ |
| 85 | -11° | 1140 | 5 | 13.6 | -11 | 43.8 | 9.0 ✓ |
| 86 | -11° | 1133 | 5 | 12.8 | -11 | 21.5 | 9.3 ✓ |
| 87 | -11° | 1130 | 5 | 12.2 | -11 | 17.4 | 9.0 ✓ |
| 88 | -11° | 1126 | 5 | 10.9 | -11 | 8.0 | 9.0 ✓ |
| 89 | -10° | 1144 | 5 | 10.9 | -10 | 50.7 | 9.0 ✓ |
| 90 | -10° | 1140 | 5 | 9.3 | -10 | 24.8 | 9.0 ✓ |
| 91 | -10° | 1139 | 5 | 9.0 | -10 | 30.8 | 9.0 ✓ |
| 92 | -9° | 1110 | 5 | 9.1 | -9 | 58.5 | 9.0 ✓ |
| 93 | -10° | 1129 | 5 | 7.1 | -10 | 33.6 | 9.0 ✓ |
| 94 | -10° | 1125 | 5 | 6.5 | -10 | 48.5 | 9.0 ✓ |
| 95 | -11° | 1118 | 5 | 9.6 | -11 | 58.7 | 9.0 ✓ |
| 96 | -12° | 1115 | 5 | 9.4 | -12 | 18.3 | 9.0 ✓ |
| 97 | -12° | 1117 | 5 | 9.7 | -12 | 35.2 | 8.7 ✓ |
| 98 | -12° | 1121 | 5 | 9.0 | -12 | 31.6 | 8.3 ✓ |
| 99 | -12° | 1108 | 5 | 8.3 | -12 | 21.8 | 8.5 ✓ |
| 100 | -12° | 1104 | 5 | 7.5 | -12 | 27.7 | 9.0 ✓ |
| 101 | -12° | 1111 | 5 | 8.7 | -12 | 58.7 | 8.5 ✓ |
| 102 | -13° | 1107 | 5 | 9.4 | -13 | 9.4 | 9.0 ✓ |
| 103 | -12° | 1126 | 5 | 11.5 | -12 | 38.6 | 9.5 ✓ |
| 104 | -12° | 1124 | 5 | 11.1 | -12 | 25.9 | 8.4 ✓ |
| 105 | -13° | 1132 | 5 | 13.9 | -13 | 15.5 | 9.0 ✓ |
| 106 | -13° | 1109 | 5 | 9.7 | -13 | 13.9 | 9.2 ✓ |
| 107 | -13° | 1104 | 5 | 9.1 | -13 | 49.2 | 8.5 ✓ |
| 108 | -13° | 1093 | 5 | 6.7 | -13 | 5.6 | 9.1 ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday. D 1911.31. 1912.
B39704 about disp.

| No. | Ext. | Class | Remark |
|---|---|---|---|
| 109 | 1 | K0 | |
| 110 | 3 | F5 | The following of two. |
| 111 | 1 | K0 | |
| 112 | 4 | A0 | |
| 113 | 2 | G0 | |
| 114 | 2 | G5 | |
| 115 | 1 | K | |
| 116 | 1 | F | |
| 117 | 5 | A5 | |
| 118 | 3 | B9 | |
| 119 | 7 | G5 | |
| 120 | 1 | G5 | |
| 121 | 1 | F | |
| 122 | 2 | A | |
| 123 | 2 | K0 | |
| 124 | 3 | K0 | |
| 125 | 2 | K5 | |
| 126 | 2 | K5 | |
| 127 | 2 | K0 | Partly superposed on 128. |
| Time 10.30 128 | 3 | F8 | |
| 129 | | | |
| 130 | | | |
| 131 | | | cont. 133, 116 |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 109 | -13° | 1094 | 5 | 7.0 | -13 | 50.2 | 9.0 ✓ |
| 110 | -14° | 1073 | 5 | 6.9 | -14 | 48.3 | 9.0 ✓ |
| 111 | -14° | 1071 | 5 | 6.7 | -14 | 36.2 | 9.0 ✓ |
| 112 | -14° | 1070 | 5 | 6.3 | -14 | 44.4 | 8.9 ✓ |
| 113 | -14° | 1068 | 5 | 5.5 | -14 | 33.5 | 9.2 ✓ |
| 114 | -14° | 1067 | 5 | 5.4 | -14 | 15.7 | 8.8 ✓ |
| 115 | -14° | 1064 | 5 | 4.1 | -14 | 3.4 | 9.1 ✓ |
| 116 | -14° | 1062 | 5 | 4.0 | -14 | 31.8 | 9.3 ✓ |
| 117 | -15° | 965 | 5 | 4.9 | -15 | 14.2 | 8.5 ✓ |
| 118 | -15° | 968 | 5 | 5.7 | -15 | 14.8 | 9.1 ✓ |
| 119 | -15° | 971 | 5 | 6.0 | -15 | 7.7 | 7.3 ✓ |
| 120 | -15° | 973 | 5 | 6.6 | -15 | 4.3 | 9.1 ✓ |
| 121 | -15° | 976 | 5 | 7.5 | -15 | 13.3 | 9.2 ✓ |
| 122 | -16° | 1067 | 5 | 5.6 | -16 | 54.7 | 9.1 ✓ |
| 123 | -11° | 1171 | 5 | 19.7 | -11 | 39.6 | 9.0 ✓ |
| 124 | -10° | 1192 | 5 | 20.5 | -10 | 49.2 | 8.5 ✓ |
| 125 | -11° | 1170 | 5 | 19.3 | -11 | 2.7 | 8.8 ✓ |
| 126 | -10° | 1173 | 5 | 16.6 | -10 | 44.6 | 9.0 ✓ |
| 127 | -10° | 1169 | 5 | 15.9 | -10 | 42.4 | 8.9 ✓ |
| 128 | -10° | 1168 | 5 | 15.9 | -10 | 37.8 | 9.0 ✓ |

Identified by A.M.C. Jan. 16. 1913
Checked by J.C.M. Jan. 20, 1913
cards made out by M.C.W.
Cards checked by E.R.B.

111

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday Dec. 31 1912

Time: 10.57

B 1036 short disp

| No | Int | Class | Remark |
|---|---|---|---|
| 1 | 2 | K0 | |
| 2 | 4 | A2 | |
| 3 | 5 | B9 | |
| 4 | 2 | F8 | |
| 5 | 2 | A0 | |
| 6 | 4 | B9 | |
| 7 | 5 | B9 | Another star superposed. Probably class A. |
| 8 | 5 | B9 | |
| 9 | 1 | A | Nearly all superposed on 8. |
| 10 | 3 | B9 | |
| 11 | 4 | A | Another star superposed ? |
| 12 | 2 | A0 | |
| 13 | 3 | B9 | |
| 14 | 3 | B8 | |
| 15 | 5 | B8 | |
| 16 | 6 | B9 | |
| 17 | 2 | K0 | |
| 18 | 1 | A | |
| 19 | 1 | A | Nearly all superposed on 20. |
| 20 | 5 | B9 | |
| 21 | 4 | F5 | |
| 22 | 2 | A0 | |
| 23 | 4 | A0 | |
| 24 | 5 | B9 | |
| 25 | 2 | A0 | |
| 26 | 3 | F5 | |
| 27 | 1 | A | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | -4° | 1155 | 5 | 23.9 | -4 | 56.0 | 8.7 ✓ |
| 2 | -5° | 1285 | 5 | 25.6 | -5 | 4.2 | 8.7 ✓ |
| 3 | -5° | 1289 | 5 | 26.0 | -5 | 26.8 | 8.5 ✓ |
| 4 | -5° | 1295 | 5 | 26.8 | -5 | 42.8 | 9.1 ✓ -5° 1296 superposed. magn. 9.4 |
| 5 | -5° | 1301 | 5 | 27.4 | -5 | 49.0 | 9.1 ✓ |
| 6 | -5° | 1305 | 5 | 27.7 | -5 | 40.4 | 8.3 ✓ |
| 7 | -6° | 1282 | 5 | 27.7 | -6 | 6.2 | 9.1 ✓ |
| 8 | -6° | 1212 | 5 | 25.3 | -6 | 20.5 | 8.5 ✓ |
| 9 | -6° | 1211 | 5 | 26.2 | -6 | 30.7 | 9.1 ✓ |
| 10 | -6° | 1216 | 5 | 25.6 | -6 | 59.7 | 9.0 ✓ |
| 11 | -6° | 1218 | 5 | 25.8 | -6 | 36.4 | 9.0 ✓ -6° 1217 superposed. magn. 8.9 |
| 12 | -6° | 1224 | 5 | 26.4 | -6 | 43.6 | 9.0 ✓ |
| 13 | -6° | 1227 | 5 | 27.0 | -6 | 56.6 | 8.5 ✓ |
| 14 | -6° | 1288 | 5 | 28.1 | -6 | 39.5 | 8.5 ✓ |
| 15 | -6° | 1247 | 5 | 28.9 | -6 | 22.1 | 8.6 ✓ |
| 16 | -6° | 1254 | 5 | 29.5 | -6 | 32.9 | 8.3 ✓ |
| 17 | -7° | 1132 | 5 | 29.7 | -7 | 11.2 | 8.5 ✓ |
| 18 | -6° | 1244 | 5 | 28.6 | -6 | 50.7 | 9.2 ✓ |
| 19 | -6° | 1264 | 5 | 30.7 | -6 | 48.1 | 9.0 ✓ |
| 20 | -6° | 1267 | 5 | 30.8 | -6 | 49.0 | 8.8 ✓ |
| 21 | -6° | 1265 | 5 | 31.0 ~~30.8~~ | -6 | 29.5 ~~34.3~~ | 8.5 ~~9.1~~ ✓ |
| 22 | -6° | 1268 | 5 | 30.9 | -6 | 19.9 | 9.5 ✓ |
| 23 | -6° | 1271 | 5 | 31.2 | -6 | 13.7 | 8.5 ✓ |
| 24 | -6° | 1274 | 5 | 31.5 | -6 | 15.0 | 8.8 ✓ |
| 25 | -6° | 1278 | 5 | 32.0 | -6 | 10.4 | 9.0 ✓ |
| 26 | -6° | 1353 | 5 | 32.0 | -5 | 58.7 | 8.3 ✓ |
| 27 | -5° | 1346 | 5 | 31.1 | -5 | 30.8 | 9.0 ✓ |

Corrs made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, Dec. 31 1912

B10366 shutter slips.

| Hr. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 2 | A2 | |
| 29 | 3 | A0 | |
| 30 | 3 | B9 | |
| 31 | 2 | A0 | |
| 32 | 2 | B9 | |
| 33 | 5 | B5 | Hazy - from nebulosity. |
| 34 | 4 | B5 | |
| 35 | 3 | B | Cannot subdivide. |
| 36 | 1 | F5 | |
| 37 | 3 | B9 | |
| 38 | 5 | B8 | |
| 39 | 7 | B3 | |
| 40 | 1 | F5 | |
| 41 | 3 | A5 | |
| 42 | 3 | A | |
| 43 | 1 | F0 | |
| 44 | 3 | F0 | |
| 45 | 5 | F5 | |
| 46 | 2 | A0 | |
| 47 | 5 | B8 | |
| 48 | 3 | A0 | |
| 49 | 2 | A0 | |
| 50 | 1 | F5 | |
| 51 | 2 | A0 | |
| 52 | 3 | A5 | |
| 53 | 2 | F0 | |
| 54 | 6 | F0 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 28 | −5° | 1328 | 5 | 29.5 − 5 | 13.5 | 9.0 ✓ |
| 29 | −5° | 1335 | 5 | 29.3 − 5 | 30.4 | 9.0 ✓ |
| 30 | −5° | 1331 | 5 | 28.8 − 5 | 28.4 | 9.0 ✓ |
| 31 | −5° | 1327 | 5 | 28.4 − 5 | 11.7 | 9.0 ✓ |
| 32 | −5° | 1316 | 5 | 28.2 − 5 | 10.2 | 9.0 ✓ |
| 33 | −5° | 1325 | 5 | 28.4 − 5 | 22.4 | 9.0 ✓ |
| 34 | −5° | 1311 | 5 | 28.0 − 5 | 18.4 | 8.3 ✓ |
| 35 | Not in cat. | Trail of bright star −6° 1241 mag. ✓ 3.0 J.B.M. | | | | |
| 36 | −6° | 1245 | 5 | 28.7 − 6 | 6.6 | 9.1 ✓ |
| 37 | −5° | 1314 | 5 | 28.1 − 5 | 55.2 | 9.0 ✓ |
| 38 | −6° | 1287 | 5 | 28.1 − 6 | 1.7 | 8.3 ✓ |
| 39 | −6° | 1240 / 1314 | 5 | 28.2 − 6 | 7.8 / ~~55.2~~ | 8.2 / 8.9 ✓ |
| 40 | −7° | 1088 | 5 | 21.6 − 7 | 51.2 | 8.6 ✓ |
| 41 | −7° | 1089 | 5 | 22.1 − 7 | 54.3 | 8.5 ✓ |
| 42 | −7° | 1096 | 5 | 22.8 − 7 | 45.8 | 9.0 ✓ |
| 43 | −8° | 1142 | 5 | 23.3 − 8 | 44.6 | 9.0 ✓ |
| 44 | −8° | 1128 | 5 | 20.8 − 8 | 27.0 | 8.2 ✓ |
| 45 | −8° | 1133 | 5 | 21.7 − 8 | 29.6 | 8.5 ✓ |
| 46 | −7° | 1108 | 5 / 5 | 24.8 / 24.9 − 7 | 49.8 | 7.6 / 8.8 ✓ |
| 47 | −7° | 1103 | 5 | 24.7 − 7 | 10.0 | 7.6 ✓ |
| 48 | −7° | 1115 | 5 | 26.3 − 7 | 41.7 | 8.5 ✓ |
| 49 | −7° | 1122 | 5 | 27.4 − 7 | 29.6 | 9.0 ✓ |
| 50 | −8° | 1168 | 5 | 28.0 − 8 | 5.2 | 8.7 ✓ |
| 51 | −8° | 1170 | 5 | 28.4 − 8 | 22.3 | 9.0 ✓ |
| 52 | −9° | 1175 | 5 | 26.6 − 9 | 29.7 | 8.6 ✓ |
| 53 | −9° | 1176 | 5 | 27.0 − 9 | 9.2 | 8.5 ✓ |
| 54 | −10° | 1204 | 5 | 24.1 − 10 | 11.3 | 7.0 ✓ |

Candle made out

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Tuesday Dec. 31 1913.

13 10366 shot disp.

| Hr. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 3 | Ao | |
| 56 | 1 | Jo | |
| 57 | 2 | J½ | |
| 58 | 2 | J½ | |
| 59 | 4 | As | |
| 60 | 2 | ½5 | |
| 61 | 4 | A2 | |
| 62 | 2 | ½0 | |
| 63 | 2 | ½5 | |
| 64 | 1 | A | |
| 65 | 1 | ½5 | |
| 66 | 1 | ½ | |
| 67 | 4 | B9 | |
| 68 | 3 | B9 | |
| 69 | 4 | B9 | |
| 70 | 3 | B8 | |
| 71 | 2 | B9 | |
| 72 | 3 | Jo | |
| 73 | 2 | Ao | |
| 74 | 2 | J½ | |
| 75 | 3 | A | E. |
| 76 | 4 | A | E. |
| Time 11.15 | 77 | 4 | ½5 E. |
| | 78 | | |
| | 79 | | |
| | 80 | | |
| | 81 | | |

cont. 133, 11 2



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | -10° | 1210 | 5 | 25.2 | -10 | 6.8 | 8.5 J |
| 56 | -10° | 1202 | 5 | 23.0 | -10 | 2.9 | 8.4 J |
| 57 | -10° | 1215 | 5 | 26.2 | -10 | 35.3 | 8.0 J |
| 58 | -10° | 1224 | 5 | 27.6 | -10 | 36.6 | 7.5 J |
| 59 | -10° | 1228 | 5 | 28.0 | -10 | 0.5 | 8.5 J |
| 60 | -10° | 1221 | 5 | 27.5 | -10 | 9.4 | 8.6 J |
| 61 | -10° | 1235 | 5 | 29.8 | -10 | 36.2 | 8.5 J |
| 62 | -10° | 1240 | 5 | 30.8 | -10 | 29.4 | 8.0 J |
| 63 | -3° | 1123 | 5 | 24.1 | -3 | 43.1 | 8.7 J |
| 64 | -4° | 1156 | 5 | 24.2 | -4 | 2.7 | 9.2 J |
| 65 | -4° | 1160 | 5 | 25.0 | -4 | 16.7 | 9.0 J |
| 66 | -4° | 1161 | 5 | 25.1 | -4 | 24.7 | 9.0 J |
| 67 | -4° | 1163 | 5 | 25.3 | -4 | 41.5 | 9.0 J |
| 68 | -4° | 1165 | 5 | 26.1 | -4 | 44.3 | 9.0 J |
| 69 | -4° | 1166 | 5 | 26.1 | -4 | 27.9 | 9.0 J |
| 70 | -4° | 1175 | 5 | 27.8 | -4 | 51.5 | 9.3 J |
| 71 | -4° | 1180 | 5 | 28.1 | -4 | 42.5 | 9.0 J |
| 72 | -3° | 1141 | 5 | 27.4 | -3 | 46.7 | 8.5 J |
| 73 | -3° | 1147 | 5 | 28.4 | -3 | 40.5 | 9.4 J |
| 74 | -3° | ~~1133~~ 1144 | 5 | ~~29.5~~ 28.4 | -3 | ~~24.2~~ 25.5 | ~~9.0~~ 8.8 J |
| 75 | -2° | 1297 | 5 | 27.0 | -2 | 29.3 | 8.5 J |
| 76 | -2° | 1305 | 5 | 28.0 | -2 | 28.8 | 9.0 J |
| 77 | -2° | 1307 | 5 | 28.5 | -2 | 27.9 | 8.5 J |

Identified by AMcA Jan. 9. 1913
Checked by J.C.M. Jan. 27, 1913
cards made out by Mr. C. W.
Cards checked by E.R.B.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, Dec. 31, 1912

Time: 11.47 — B 18394 chart corrs.

| No | Int | Class | Remark |
|---|---|---|---|
| 1 | 4 | A0 | |
| 2 | 3 | A0 | |
| 3 | 6 | F0 | |
| 4 | 2 | Ly5 | |
| 4a | 6 | F5 | |
| 5 | 3 | A0 | |
| 6 | 5 | A2 | |
| 7 | 4 | A0 | |
| 8 | 4 | A0 | |
| 9 | 3 | A0 | |
| 10 | 4 | F5 | |
| 11 | 1 | A2 | |
| 12 | 4 | F2 | |
| 13 | 5 | Ly5 | |
| 14 | 2 | A0 | |
| 15 | 4 | Bg | |
| 16 | 5 | F8 | |
| 17 | 2 | F0 | |
| 18 | 3 | A0 | |
| 19 | 3 | F5 | |
| 20 | 4 | K5 | |
| 21 | 5 | Bg | |
| Time: 11.57 | 23 | 3 | A0 |
| | 23 | | |
| | 24 | | |
| | 25 | | |
| | 26 | | |
| | 27 | | |

emh. 133, 104



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | -4° | 1223 | 5 | 35.6 | -4 | 43.1 | 8.5 |
| 2 | -5° | 1370 | 5 | 36.1 | -5 | 4.0 | 8.8 |
| 3 | -5° | 1379 | 5 | 37.3 | -5 | 32.1 | 7.8 |
| 4 | -5° | 1359 | 5 | 33.8 | -5 | 38.4 | 8.5 |
| 4a | -7° | 1167 | 5 | 39.5 | -7 | 0.7 | 7.8 |
| 5 | -6° | 1278 | 5 | 32.0 | -6 | 10.4 | 9.0 |
| 6 | -6° | 1277 | 5 | 31.9 | -6 | 34.8 | 8.4 |
| 7 | -6° | 1281 | 5 | 32.9 | -6 | 51.5 | 9.0 |
| 8 | -6° | 1286 | 5 | 34.4 | -6 | 50.5 | 9.0 |
| 9 | -6° | 1297 | 5 | 37.0 | -6 | 47.8 | 8.5 |
| 10 | -6° | 1301 | 5 | 37.8 | -6 | 49.2 | 8.5 |
| 11 | -6° | 1291 | 5 | 35.6 | -6 | 54.3 | 9.1 |
| 12 | -7° | 1153 | 5 | 35.7 | -7 | 24.7 | 8.0 |
| 13 | -7° | 1155 | 5 | 36.0 | -7 | 32.9 | 7.5 |
| 14 | -7° | 1158 | 5 | 36.6 | -7 | 21.7 | 9.0 |
| 15 | -8° | 1199 | 5 | 35.4 | -8 | 12.7 | 8.7 |
| 16 | -7° | 1156 | 5 | 36.5 | -7 | 58.1 | 8.2 |
| 17 | -9° | 1221 | 5 | 38.2 | -9 | 0.8 | 8.5 |
| 18 | -8° | 1213 | 5 | 39.7 | -8 | 53.5 | 8.5 |
| 19 | -9° | 1244 | 5 | 42.4 | -9 | 26.6 | 8.5 |
| 20 | -4° | 1236 | 5 | 39.0 | -4 | 4.6 | 8.8 |
| 21 | -4° | 1237 | 5 | 39.2 | -4 | 4.2 | 8.8 |
| 22 | -3° | 1181 | 5 | 36.7 | -3 | 40.7 | 8.7 |

Identified by AMC. Jan. 2, 1913
Checked by J.C.M. Jan. 10, 1913
cards made out by M. C. W.
Cards checked by S.R.B.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday Dec. 31 1912

Time: 11.55 B12754 Dust axis.

| No | Int. | Class | Remark |
|---|---|---|---|
| 1 | 6 | F5 | |
| 2 | 4 | K0 | |
| 3 | 3 | F2 | |
| 4 | 3 | A0 | |
| 5 | 3 | B9 | |
| 6 | 4 | B9 | |
| 7 | 5 | A0 | |
| 8 | 2 | ? | Partly superposed on 7. |
| 9 | 7 | A2 | |
| 10 | 6 | B8 | |
| 11 | 10+ | B | |
| 12 | 4 | A0 | |
| 13 | 3 | A2 | |
| 14 | 3 | ? | |
| 15 | 2 | A2 | |
| 16 | 7 | K0 | |
| 17 | 2 | K0 | The ∞ of two - |
| 17a | 1 | K0 | |
| 18 | 2 | K0 | |
| 19 | 3 | K0 | |
| 20 | 4 | A2 | |
| 21 | 3 | A3 | |
| 22 | 5 | A0 | |
| 23 | 3 | K0 | |
| 24 | 4 | B9 | |
| 25 | 10 | K5 | |
| 26 | 6 | B1 | |
| 27 | 4 | A3 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | −0° | 1044 | 5 | 32.7 | −0 | 47.1 | 8.5 |
| 2 | −1° | 990 | 5 | 31.6 | −1 | 14.4 | 8.4 |
| 3 | −1° | 991 | 5 | 31.7 | −1 | 19.7 | 9.0 |
| 4 | −1° | 995 | 5 | 32.3 | −1 | 27.0 | 9.4 |
| 5 | −1° | 994 | 5 | 32.1 | −1 | 40.0 | 9.2 |
| 6 | −2° | 1329 | 5 | 31.8 | −2 | 5.3 | 9.0 |
| 7 | −1° | 998 | 5 | 32.8 | −1 | 48.3 | 9.1 |
| 8 | −1° | 1000 | 5 | 32.8 | −1 | 45.7 | 8.8 |
| 9 | −1° | 999 | 5 | 32.8 | −1 | 31.4 | 8.4 |
| 10 | −1° | 1001 | 5 | 32.9 | −1 | 32.1 | 8.6 |
| 11 | −1° | 1005 | 5 | 33.6 | −1 | 34.0 | 8.4 |
| 12 | −1° | 1009 | 5 | 34.0 | −1 | 24.0<br>13.7 | 8.9<br>9.3 |
| 13 | −1° | 1007 6 7 | 5 | 33.8 | −1 | +2.2 | 6.2 Brighter Companion |
| 14 | −1° | 1008 | 5 | 33.9 | −1 | 5.0 | 9.1 |
| 15 | −0° | 1056 | 5 | 34.5 | −0 | 38.2 | 9.5 |
| 16 | −0° | 1059 | 5 | 35.1 | −0 | 5.7 | 8.1 |
| 17 | −0° | 1068 1 5 | 5 | 35.5 | −0 | 3.8 .6 | 9.6 −0.080 mags. 8.9 superposed |
| 17a | −0° | 1060 | 5 | 35.4 | −0 | 3.0 | 8.9 |
| 18 | +0° | 1160 | 5 | 35.6 | +0 | 6.3 | 9.2 |
| 19 | +0° | 1163 | 5 | 36.0 | +0 | 6.7 | 8.7 |
| 20 | +0° | 1170 | 5 | 36.9 | +0 | 4.6 | 9.2 |
| 21 | +0° | 1171 | 5 | 37.0 | +0 | 1.1 | 9.1 |
| 22 | −0° | 1073 | 5 | 37.4 | −0 | 7.2 | 9.1 |
| 23 | −0° | 1074 | 5 | 37.5 | −0 | 43.8 | 8.7 |
| 24 | −1° | 1313 | 5 | 36.4 | −1 | 0.2 | 8.9 |
| 25 | −1° | 1312 | 5 | 35.8 | −1 | 40.0 | 7.8 |
| 26 | −2° | 1350 | 5 | 35.7 | −2 | 22.7 | 8.5 |
| 27 | −2° | 1351 | 5 | 37.0 | −2 | 24.4 | 8.8 |

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Tuesday, Dec. 31, 1912.

B12754 chart disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 4 | Ao | |
| 29 | 3 | F2 | |
| 30 | 5 | kp | |
| 31 | 3 | Ao | |
| 32 | 4 | A2 | |
| 33 | 3 | A | Another star superposed. |
| 34 | 8 | dF0 | |
| 35 | 8 | F2 | |
| 36 | 10 | F0 | |
| 37 | 1 | k | |
| 38 | 5 | k5 | |
| 39 | 6 | A2 | |
| 40 | 4 | F0 | Another star superposed at north. |
| 41 | 1 | F5 | |
| 42 | 4 | F0 | |
| 43 | 8 | F2 | |
| 44 | 9 | F0 | |
| 45 | 4 | F5 | |
| 46 | 2 | G5 | |
| 47 | 10 | A0 | |
| 48 | 7 | F2 | |
| 49 | 3 | A0 | |
| 50 | 7 | B9 | |
| 51 | 4 | kp | |
| 52 | 4 | A0 | |
| 53 | 4 | Bp | The preceding Hyades star |
| 53a | 2 | A2 | seems on edge in full circle of 8-3 |
| 54 | 3 | A | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ·28 | -2° | 1363 | 5 | 37.7 | -2 | 33.8 | 8.8 1 v |
| ·29 | -2° | 1358 | 5 | 37.2 | -2 | 58.3 | 8.5 1 v |
| ·30 | -1° | 1019 | 5 | 38.1 | -1 | 39.7 | 8.6 1 v |
| ·31 | -1° | 1022 | 5 | 38.9 | -1 | 34.6 | 9.2 1 v |
| ·32 | -1° | 1026 | 5 | 39.7 | -1 | 25.2 | 9.0 1 v |
| ·33 | -1° | 1023 | 5 | 39.6 | -1 | 43.3 | 9.2 1 v 1024.5 39.6-1 46.8 magn. 9.4 superposed |
| ·34 | -2° | 1373 | 5 | 40.5 | -2 | 20.8 | 8.0 1 v |
| ·35 | -1° | 1030 | 5 | 41.4 | -1 | 50.4 | 7.8 1 v |
| ·36 | -1° | 1031 | 5 | 41.4 | -1 | 32.7 | 7.8 1 v |
| ·37 | -1° | 1034 | 5 | 41.8 | -1 | 28.0 | 9.2 1 v |
| ·38 | -1° | 1033 | 5 | 41.8 | -1 | 47.7 | 8.5 1 v |
| ·39 | -1° | 1032 | 5 | 41.7 | -1 | 57.2 | 9.0 1 v |
| ·40 | -0° | 1081 | 5 | 39.1 | -0 | 49.8 | 8.9 -0.6 1079 superposed magn. 9.2 |
| ·41 | -0° | 1082 | 5 | 39.5 | -0 | 57.0 | 9.2 1 v |
| ·42 | -0° | 1086 | 5 | 40.8 | -0 | 48.0 | 8.6 1 v |
| ·43 | -0° | 1088 | 5 | 40.9 | -0 | 42.7 | 9.0 1 v |
| ·44 | -0° | 1089 | 5 | 41.1 | -0 | 49.1 | 8.0 1 v |
| ·45 | -0° | 1091 | 5 | 41.5 | -0 | 42.8 | 8.5 1 v |
| ·46 | -0° | 1092 | 5 | 41.7 | -0 | 46.3 | 9.5 1 v |
| ·47 | -0° | 1095 | 5 | 42.2 | -0 | 44.4 | 8.0 1 v |
| ·48 | -0° | 1097 | 5 | 42.3 | -0 | 23.9 | 7.8 1 v |
| ·49 | -0° | 1098 | 5 | 43.5 | -0 | 13.9 | 9.2 1 v |
| ·50 | +0° | 1187 | 5 | 42.5 | +0 | 6.5 | 8.3 1 v |
| ·51 | +0° | 1193 | 5 | 43.5 | +0 | 17.8 | 9.0 1 v |
| ·52 | -0° | 1107 | 5 | 44.6 | -0 | 15.1 | 9.1 1 v |
| ·53 | -1° | 1038 | 5 | 43.3 | -1 | 27.9 | 8.2 1 v |
| ·53a | -1° | 1039 | 5 | 43.3 | -1 | 27.19 | 9.0 v |
| ·54 | -1° | 1040 | 5 | 43.5 | -1 | 19.0 | 8.9 1 v |

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Tuesday Dec. 31. 1912

B 13754 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 2 | A | |
| 56 | 5 | F5 | |
| 57 | 5 | A0 | |
| 58 | 1 | F | |
| 59 | 3 | Ma | |
| 60 | 6 | K5 | |
| 61 | 5 | A2 | |
| 62 | 5 | K5 | |
| 63 | 7 | K0 | |
| 64 | 3 | A | |
| 65 | 2 | A | |
| 66 | 1 | K5 | |
| 67 | 2 | G | |
| 68 | 10+ | A | |
| 69 | 7 | A | Almost all superposed on 70. |
| 70 | 7 | A | " " " " 69. |
| 71 | 5 | F5 | |
| 72 | 7 | B9 | |
| 73 | 6 | B9 | |
| 74 | 5 | A0 | |
| 75 | 4 | K0 | |
| 76 | 2 | K0 | |
| 77 | 4 | A0 | |
| 78 | 2 | A | |
| 79 | 5 | K0 | |
| 80 | 2 | K0 | |
| 81 | 3 | Ma | H & K bright? |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| .55 | -1° | 1046 | 5 | 44.6 | -1 | 22.9 | 9.2 | 1 v |
| .56 | -1° | 1047 | 5 | 44.7 | -1 | 3.7 | 8.9 | 1 v |
| .57 | -0° | 1109 | 5 | 45.0 | -0 | 57.4 | 8.9 | 1 v |
| .58 | -1° | 1055 | 5 | 46.1 | -1 | 18.5 | 9.2 | 1 v |
| .59 | -1° | 1059 | 5 | 47.0 | -1 | 6.2 | 8.2 | 1 r |
| .60 | -0° | ~~1064~~ 1118 | 5 | 47.8 | -0 | 57.8 | 8.5 | 1 v |
| .61 | -1° | 1064 | 5 | 48.2 | -1 | 5.6 | 9.1 | 1 v |
| .62 | -0° | 1122 | 5 | 48.5 | -0 | 54.5 | 8.6 | 1 v |
| .63 | -0° | 1115 | 5 | 47.7 | -0 | 31.4 | 8.1 | 1 v |
| .64 | -0° | 1114 | 5 | 47.5 | -0 | 15.4 | 9.1 | 1 v |
| .65 | -0° | 1117 | 5 | 47.8 | -0 | 15.9 | 9.3 | 1 v |
| .66 | +0° | 1221 | 5 | 48.8 | +0 | 7.7 | 9.2 | 1 v |
| .67 | -0° | 1124 | 5 | 49.5 | -0 | 24.5 | 9.2 | 1 v |
| .68 | +0° | 1227 | 5 | 50.0 | +0 | 0.4 | 8.1 | 1 v |
| .69 | +0° | 1230 | 5 | 50.0 | +0 | 22.7 | 9.0 | 1 v |
| .70 | +0° | 1229 | 5 | 50.0 | +0 | 21.7 | 9.2 | 1 r |
| .71 | +0° | 1242 | 5 | 52.4 | +0 | 2.0 | 8.6 | 1 v |
| .72 | -0° | 1137 | 5 | 52.7 | -0 | 31.0 | 8.0 | 1 v |
| .73 | -0° | 1138 | 5 | 53.0 | -0 | 41.5 | 8.6 | 1 v |
| .74 | -0° | 1144 | 5 | 54.9 | -0 | 5.5 | 8.9 | 1 v |
| .75 | -0° | 1150 | 5 | 55.8 | -0 | 35.3 | 8.0 | 1 v |
| .76 | -0° | 1154 | 5 | 56.6 | -0 | 12.7 | 8.7 | 1 v |
| .77 | -0° | 1149 | 5 | 55.4 | -0 | 56.3 | 9.0 | 1 v |
| .78 | -1° | 1093 | 5 | 54.7 | -1 | 4.6 | 9.4 | 1 v |
| .79 | -1° | 1092 | 5 | 54.4 | -1 | 40.0 | 8.5 | 1 v |
| .80 | -2° | 1447 | 5 | 54.4 | -2 | 4.9 | 9.0 | 1 v |
| .81 | -2° | 1448 | 5 | 54.5 | -2 | 21.4 | 8.0 | 1 v |

can also make out

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B 1754 short exp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 7 | A0 | |
| 83 | 6 | A0 | |
| 84 | 3 | F0 | |
| 85 | 10+ | B8 | |
| 86 | 4 | F0 | |
| 87 | 5 | A0 | |
| 88 | 5 | A0 | |
| 89 | 2 | F0 | |
| 90 | 4 | A2 | |
| 91 | 3 | A3 | |
| 92 | 3 | A0 | |
| 93 | 4 | F5 | |
| 94 | 4 | A0 | |
| 95 | 4 | F5 | |
| 96 | 4 | F0 | |
| 97 | 1 | F0 | |
| 98 | 4 | F0 | |
| 99 | 3 | A5 | |
| 100 | 6 | A0 | |
| 101 | 4 | A0 | |
| 102 | 6 | B5 | |
| 103 | 3 | B9 | |
| 104 | 5 | B9 | |
| 105 | 3 | B9 | |
| 106 | 7 | B5 | |
| 107 | 7 | A0 | |
| 108 | 4 | B9 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| ·82 | −2° | 1453 | 5 | 55.2 − 2 | 21.3 | 8.3 1 ∨ |
| ·83 | −2° | 1456 | 5 | 55.4 − 2 | 24.4 | 8.5 ∧ ∨ |
| ·84 | −2° | 1457 | 5 | 55.9 − 2 | 3.8 | 8.7 1 ∨ |
| ·85 | −2° | 1458 | 5 | 56.0 − 2 | 28.9 | 7.5 1 ∨ |
| ·86 | −2° | 1462 | 5 | 56.2 − 2 | 34.7 | 9.2 1 ∨ |
| ·87 | −2° | 1467 | 5 | 57.6 − 2 | 42.8 | 9.0 ∧ ∨ |
| ·88 | −2° | 1470 | 5 | 58.2 − 2 | 39.0 | 9.0 1 ∨ |
| ·89 | −3° | 1281 | 5 | 57.2 − 3 | 3.8 | 9.0 ∧ ∨ |
| ·90 | −3° | 1278 | 5 | 57.0 − 3 | 26.7 | 9.0 1 ∨ |
| ·91 | −3° | 1271 | 5 | 56.0 − 3 | 29.6 | 9.0 1 ∨ |
| ·92 | −3° | 1276 | 5 | 56.8 − 3 | 50.1 | 9.1 1 ∨ |
| ·93 | −2° | 1455 | 5 | 55.4 − 2 | 50.8 | 8.0 ∧ ∨ |
| ·94 | −3° | 1296 | 5 | 59.5 − 3 | 55.6 | 9.0 ∧ ∨ |
| ·95 | −3° | 1301 | 6 | 0.2 − 3 | 58.7 | 9.0 1 ∨ |
| ·96 | −4° | 1369 | 6 | 0.4 − 4 | 7.1 | 9.0 1 ∨ |
| ·97 | −4° | 1368 | 6 | 0.2 − 4 | 33.5 | 9.0 1 ∨ |
| ·98 | −4° | 1364 | 5 | 59.8 − 4 | 48.7 | 9.0 1 ∨ |
| ·99 | −4° | 1360 | 5 | 59.1 − 4 | 45.2 | 9.0 ∧ ∨ |
| ·100 | −5° | 1506 | 6 | 0.3 −5 | 22.4 | 8.8 1 ∨ |
| ·101 | −2° | 1330 | 5 | 32.0 − 2 | 36.6 | 9.0 ∧ ∨ |
| ·102 | −2° | 1328 | 5 | 31.8 − 2 | 44.2 | 8.3 1 ∨ |
| ·103 | −3° | 1165 | 5 | 31.9 − 3 | 2.5 | 9.2 ∧ ∨ |
| ·104 | −2° | 1332 | 5 | 32.5 − 2 | 45.7 | 9.1 ∧ ∨ |
| ·105 | −2° | 1335 | 5 | 33.0 − 2 | 35.4 | 9.0 ∧ ∨ |
| ·106 | −2° | 1336 | 5 | 33.1 − 2 | 31.8 | 9.0 ∧ ∨ |
| ·107 | −2° | 1344 | 5 | 33.8 − 2 | 47.7 | 8.5 ∧ ∨ |
| ·108 | −3° | 1172 | 5 | 34.3 − 3 | 3.6 | 9.0 1 ∨ |

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B13754 short drifs.

| No. | Dist. | Class | Remark. |
|---|---|---|---|
| 109 | 6 | B9 | |
| 110 | 8 | B3 | |
| 111 | 8 | A5 | |
| 112 | 10+ | B | |
| 113 | 8 | B9 | |
| 114 | 3 | K0 | |
| 115 | 4 | A3 | |
| 116 | 1 | K5 | |
| 117 | 3 | M0 | |
| 118 | 4 | A0 | |
| 119 | 3 | M5 | |
| 120 | 2 | M0 | |
| 121 | 2 | K5 | |
| 122 | 2 | A5 | |
| 123 | 2 | A | |
| 124 | 1 | M | |
| 125 | 5 | A5 | -3° 1192. Class K. superposed. |
| 126 | 4 | A0 | |
| 127 | 1 | M | |
| 128 | 1 | M0 | |
| 129 | 4 | M | |
| 130 | 4 | M0 | |
| 131 | 3 | A2 | |
| 132 | 5 | M0 | |
| 133 | 6 | M0 | |
| 134 | 6 | M5 | |
| 135 | 5 | M5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 109 | -2° | 1348 | 5 | 34.6 | -2 | 52.7 | 8.7 | 1 ✓ |
| 110 | -2° | 1345 | 5 | 34.4 | -2 | 19.7 | 8.5 | 1 ✓ |
| 111 | -2° | 1348 | 5 | 33.8 | -2 | 22.2 | 8.5 | 1 ✓ |
| 112 | trail of -2° | 1338 | 5 | 33.4 | -2 | 1.8 | 2 | 1 ✓ |
| 113 | -1° -2° | 997 1333 | 5 5 | 32.6 -1 32.6 | -2 | 60.8 1.0 | 8.7 8.5 | 1 ✓ same star |
| 114 | -3° | 1174 | 5 | 34.6 | -3 | 34.5 | 9.0 | 1 ✓ |
| 115 | -3° | 1177 | 5 | 35.1 | -3 | 24.2 | 8.8 | 1 ✓ |
| 116 | -3° | 1180 | 5 | 36.2 | -3 | 38.8 | 9.2 | 1 ✓ |
| 117 | -3° | 1182 | 5 | 36.8 | -3 | 53.2 | 9.1 | 1 ✓ |
| 118 | -4° | 1201 | 5 | 31.6 | -4 | 21.7 | 9.0 | 1 ✓ |
| 119 | -4° | 1203 | 5 | 32.1 | -4 | 46.5 | 8.8 | 1 ✓ |
| 120 | -4° | 1204 | 5 | 32.2 | -4 | 51.4 | 9.0 | 1 ✓ |
| 121 | -4.5 | 1355 | 5 | 32.6 | -4.5 | 8.6 | 9.0 | 1 ✓ |
| 122 | -4.5 | 1369 | 5 | 36.0 | -4.5 | 52.7 | 9.0 | 1 ✓ |
| 123 | -4° | 1224 | 5 | 35.8 | -4 | 54.5 | 9.2 | 1 ✓ |
| 124 | -4.5 | 1373 | 5 | 36.6 | -4.5 | 13.6 | 9.0 | 1 ✓ |
| 125 | -3° | 1194 1192 | 5 | 39.6 | -3 | 18.8 18.9 | 9.0 | 1 ✓ -3° 1192 mag 9.0 superposed |
| 126 | -3° | 1196 | 5 | 39.9 | -3 | 24.3 | 9.1 | 1 ✓ |
| 127 | -3° | 1201 | 5 | 40.9 | -3 | 14.3 | 9.0 | 1 ✓ |
| 128 | -3° | 1204 | 5 | 41.8 | -3 | 21.4 | 9.0 | 1 ✓ |
| 129 | -3° | 1208 | 5 | 42.3 | -3 | 12.5 | 8.7 | 1 ✓ |
| 130 | -2° | 1391 | 5 | 44.2 | -2 | 57.8 | 8.5 | 1 ✓ |
| 131 | -2° | 1398 | 5 | 45.7 | -2 | 44.2 | 9.0 | 1 ✓ |
| 132 | -3° | 1221 | 5 | 45.7 | -3 | 11.5 | 8.5 | 1 ✓ |
| 133 | -3° | 1223 | 5 | 46.1 | -3 | 35.4 | 8.5 | 1 ✓ |
| 134 | -3° | 1230 | 5 | 47.5 | -3 | 39.9 | 8.3 | 1 ✓ |
| 135 | -3° | 1229 | 5 | 47.4 | -3 | 14.2 | 8.5 | 1 ✓ |

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Tuesday, Dec. 31, 1912.
B 132754 short disp.

| No | Int. | Class | Remark |
|---|---|---|---|
| 136 | 1 | Ao | |
| 137 | 2 | Ao | |
| 138 | 4 | Ao | |
| 139 | 4 | Fo | |
| 140 | 5 | Ao | |
| 141 | 3 | A5 | |
| 142 | 2 | kA5 | |
| 143 | 5 | Fo | |
| 144 | 5 | Ao | |
| 145 | 7 | A5 | |
| 146 | 6 | Ao | |
| 147 | 4 | B9 | |
| 148 | 5 | Fo | |
| 149 | 4 | Ao | |
| 150 | 3 | A | |
| 151 | 2 | A | |
| 152 | 1 | F | |
| 153 | 2 | A | |
| 154 | 7 | A2 | |
| 155 | 8 | F5 | |
| 156 | 2 | F0 | |
| 157 | 2 | kA | |
| 158 | 2 | F | |
| 159 | 8 | B9 | |
| 160 | 9 | F0 | |
| 161 | 2 | kA5 | |
| 162 | 4 | B9 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 136 | -3° | 1228 | 5 | 47.2 | -3 | 5.2 | 9.0 | ∧ ∫ |
| 137 | -2° | 1403 | 5 | 47.8 | -2 | 56.4 | 9.3 | ∧ ∨ |
| 138 | -2° | 1412 | 5 | 48.7 | -2 | 49.2 | 8.7 | ∧ ∫ |
| 139 | -2° | 1414 | 5 | 48.8 | -2 | 49.5 | 8.7 | ∧ ∫ |
| 140 | -3° | 1241 | 5 | 49.6 | -3 | 5.7 | 8.5 | ∧ ∨ |
| 141 | -2° | 1417 | 5 | 49.8 | -2 | 33.1 | 9.0 | ∧ ∨ |
| 142 | -2° | 1418 | 5 | 50.0 | -2 | 31.3 | 8.8 | ∧ ∨ |
| 143 | -2° | 1420 | 5 | 50.3 | -2 | 39.8 | 8.5 | ∧ ∨ |
| 144 | -2° | 1422 | 5 | 50.8 | -2 | 33.9 | 9.0 | ∧ ∫ |
| 145 | -2° | 1423 | 5 | 50.9 | -2 | 2.6 | 8.0 | ∧ ∫ |
| 146 | -2° | 1427 | 5 | 51.3 | -2 | 6.7 | 8.5 | ∧ ∫ |
| 147 | -1° | 1075 | 5 | 50.4 | -1 | 50.5 | 9.2 | ∧ ∫ |
| 148 | -2° | 1416 | 5 | 49.7 | -2 | 11.2 | 8.5 | ∧ ∨ |
| 149 | -1° | 1070 | 5 | 49.2 | -1 | 51.3 | 9.0 | ∧ ∨ |
| 150 | -2° | 1413 | 5 | 48.8 | -2 | 13.4 | 8.5 | ∧ ∫ |
| 151 | -2° | 1411 | 5 | 48.5 | -2 | 15.1 | 9.5 | ∧ ∨ |
| 152 | -2° | 1409 | 5 | 48.2 | -2 | 30.8 | 8.8 | ∧ ∫ |
| 153 | -2° | 1406 | 5 | 47.9 | -2 | 25.0 | 9.1 | ∧ ∨ |
| 154 | -1° | 1060 | 5 | 47.8 | -1 | 57.7 | 8.2 | ∧ ∫ |
| 155 | -2° | 1395 | 5 | 45.2 | -2 | 19.5 | 7.8 | ∧ ∫ |
| 156 | -2° | 1386 | 5 | 43.2 | -2 | 7.3 | 9.0 | 14.2° 1387.5 N 3.2 - 2 bri superposed on |
| 157 | -2° | 1396 | 5 | 45.3 | -2 | 4.0 | 9.0 | ∧ ∨ |
| 158 | -2° | 1397 | 5 | 45.3 | -2 | 12.8 | 9.0 | ∧ ∫ |
| 159 | -1° | 1073 | 5 | 49.5 | -1 | 11.2 | 8.4 | ∧ ∨ |
| 160 | -1° | 1078 | 5 | 50.8 | -1 | 0.6 | 6.9 | ∧ ∫ |
| 161 | -1° | 1081 | 5 | 51.6 | -1 | 7.5 | 8.4 | ∨ |
| 162 | -1° | 1080 | 5 | 51.6 | -1 | 20.8 | 8.7 | ∧ ∨ |

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Tuesday Dec. 31. 1912.

13 12 754 short disp.

| No | Int. | Class | Remark |
|---|---|---|---|
| 163 | 10+ | Q | Burned out |
| 164 | 2 | Q2 | |
| 165 | 1 | Y | |
| 166 | 1 | Q | |
| 167 | 2 | Q | |
| 168 | 5 | Y3g | |
| 169 | 1 | Yg | |
| 170 | 2 | Y | |
| 171 | 10+ | Y | Burned out. |
| 172 | 5 | Y5 | |
| 173 | 5 | Q | |
| 174 | 4 | Q | |
| 175 | 10+ | Q5 | |
| 176 | 2 | Y3g | |
| 177 | 3 | Q5 | |
| 178 | 5 | Q3 | |
| 179 | 1 | Yg5 | |
| 180 | 2 | Cont. | Cluster - no bright lines. |
| 181 | 4 | Y0 | |
| 182 | 7 | Y5 | |
| 183 | 4 | Y3g | |
| 184 | 2 | Y8 | |
| 185 | 3 | Y2 | |
| 186 | 3 | Y5 | |
| 187 | 5 | Y5 | |
| 188 | 2 | Y | |
| 189 | 2 | Yg5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| .163 | −1° | 1083 | 5 | 52.3 | − 1 | 26.5 | 7.4 ^ / |
| .164 | −1° | 1087 | 5 | 53.4 | − 1 | 37.1 | 9.1 ^ v |
| .165 | −1° | 1088 | 5 | 53.7 | − 1 | 34.2 | 9.3 ^ . |
| .166 | −2° | 1439 | 5 | 53.4 | − 2 | 4.0 | 9.0 ^ v |
| .167 | −2° | 1433 | 5 | 52.1 | − 2 | 21.5 | 8.5 ^ v |
| .168 | −2° | 1436 | 5 | 52.4 | − 2 | 20.6 | 8.5 ^ v |
| .169 | −2° | 1426 | 5 | 51.2 | − 2 | 38.4 | 9.0 ^ v |
| .170 | −2° | 1431 | 5 | 51.8 | − 2 | 51.3 | 9.2 ^ v |
| .171 | −3° | 1256 | 5 | 52.8 | − 3 | 4.8 | 5.7 ^ v |
| .172 | +0° | 1145 | 5 | 32.2 | + 0 | 44.4 | 7.8 ^ v |
| .173 | +0° | 1146 | 5 | 32.2 | + 0 | 50.1 | 9.0 ^ v |
| .174 | +0° | 1150 | 5 | 32.8 | + 0 | 53.8 | 9.0 ^ v |
| .175 | +0° | 1152 | 5 | 33.6 | + 0 | 15.5 | 7.3 ^ v |
| .176 | +0° | 1158 | 5 | 35.5 | + 0 | 27.7 | 9.3 ^ v |
| .177 | +0° | 1166 | 5 | 36.8 | + 0 | 59.1 | 9.2 ^ v |
| .178 | +0° | 1168 | 5 | 36.7 | + 0 | 53.7 | 9.0 ^ v |
| .179 | +0° | 1174 | 5 | 37.4 | + 0 | 30.7 | 8.9 ^ v |
| .180 | +0° | 1177 | 5 | 39.3 | + 0 | 0.9 | neb. ^ v |
| .181 | +0° | 1178 | 5 | 39.5 | + 0 | 54.5 | 8.8 ^ v |
| .182 | +1° | 1122 | 5 | 38.7 | + 1 | 28.9 | 8.5 ^ v |
| .183 | +1° | 1131 | 5 | 40.0 | + 1 | 24.2 | 9.1 ^ v |
| .184 | +1° | 1135 | 5 | 40.5 | + 1 | 40.9 | 9.1 ^ v |
| .185 | +1° | 1136 | 5 | 40.7 | + 1 | 39.5 | 8.7 ^ v |
| .186 | +1° | 1140 | 5 | 41.2 | + 1 | 59.2 | 9.0 ^ v |
| .187 | +2° | 1064 | 5 | 41.0 | + 2 | 14.9 | 8.8 ^ v |
| .188 | +1° | 1143 | 5 | 41.7 | + 1 | 24.6 | 9.4 ^ ~ |
| .189 | +1° | 1146 | 5 | 42.7 | + 1 | 20.1 | 9.0 ^ v |

Cards run a de out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, Dec. 31, 1912.

B 12754 short disp.

| No. | Int | Class | Remark |
|---|---|---|---|
| 190 | 3 | B8 | |
| 191 | 10 | B8 | |
| 192 | 2 | A | Partly superposed on 191. |
| 193 | 2 | A3 | |
| 194 | 3 | B8 | |
| 195 | 6 | B9 | |
| 196 | 3 | F0 | |
| 197 | 3 | B9 | |
| 198 | 4 | A2 | |
| 199 | 6 | F0 | |
| 200 | 3 | A5 | E. |
| 201 | 5 | G0 | |
| 202 | 4 | A2 | |
| 203 | 2 | F2 | |
| 204 | 5 | A2 | |
| 205 | 1 | A0 | |
| 206 | 7 | B9 | |
| 207 | 3 | F0 | |
| 208 | 4 | A | E. |
| 209 | 7 | A | E. |
| June 12.37 | 210 | 2 | A5 |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| .190 | +1° | 1147 | 5 | 42.9 | +1 | 43.4 | 9.0 1 ✓ |
| .191 | +0° | 1184 | 5 | 41.3 | +0 | 40.9 | 7.5 1 ✓ |
| .192 | +0° | 1183 | 5 | 41.3 | +0 | 36.9 | 9.2 1 ✓ |
| .193 | +0° | 1187 | 5 | 48.5 | +0 | 8.9 6.5 | 7.4 1 ✓ |
| .194 | +0° | 1203 | 5 | 46.0 | +0 | 44.6 | 9.0 1 ✓ |
| .195 | +1° | 1155 | 5 | 46.1 | +1 | 42.3 | 8.8 1 ✓ |
| .196 | +0° | 1211 | 5 | 47.5 | +0 | 32.7 | 8.9 1 ✓ |
| .197 | +0° | 1213 | 5 | 47.9 | +0 | 49.9 | 9.2 1 ✓ |
| .198 | +1° | 1161 | 5 | 48.7 | +1 | 46.0 | 9.2 1 ✓ |
| .199 | +2° | 1096 | 5 | 50.3 | +2 | 2.6 | 8.5 1 ✓ |
| .200 | +2° | 1095 | 5 | 50.2 | +2 | 34.5 | 9.1 1 ✓ |
| .201 | +1° | 1180 | 5 | 52.8 | +1 | 46.9 | 8.6 1 ✓ |
| .202 | +1° | 1184 | 5 | 53.5 | +1 | 58.7 | 8.7 1 ✓ |
| .203 | +1° | 1185 | 5 | 53.9 | +1 | 54.4 | 9.0 1 ✓ |
| .204 | +2° | 1118 | 5 | 54.4 | +2 | 10.3 | 8.6 1 ✓ |
| .205 | +1° | 1191 | 5 | 54.6 | +1 | 45.4 | 8.7 1 ✓ |
| .206 | +1° | 1196 | 5 | 54.9 | +1 | 5.0 | 9.1 1 ✓ |
| .207 | +1° | 1197 | 5 | 55.2 | +1 | 6.3 | 8.7 1 ✓ |
| .208 | +2° | 1120 | 5 | 56.8 | +2 | 5.3 | 9.1 1 ✓ |
| .209 | +2° | 1126 | 5 | 57.5 | +2 | 7.0 | 8.4 1 ✓ |
| .210 | −3° | 1304 | 6 | 1.0 | −3 | 1.8 | 9.0 1 ✓ |

1163 5 48.5 +1 49.3 meas. 93 superposed

Identified by ANC. Jan. 2, 1913

Checked. Jan. 23, 1913. LDW.

cards made out by M. C. W.

Cards checked by S.R.B.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday January 1, 1913

Time 12.16 — 59 — B10X84 Short.

| No. | Sect. | Class | Remark |
|---|---|---|---|
| 1 | 2 | A0 | |
| 2 | 1 | K | |
| 3 | 1 | K2 | |
| 4 | 3 | A2 | |
| 5 | 5 | F8 | |
| 6 | 4 | A2 | |
| 7 | 3 | F0 | |
| 8 | 2 | F5 | |
| 9 | 2 | F0 | |
| 10 | 3 | F2 | |
| 11 | 2 | F5 | |
| 12 | 3 | F0 | |
| 13 | 6 | G5 | |
| 14 | 3 | F5 | |
| 15 | 3 | A2 | |
| 16 | 5 | G0 | |
| 17 | 1 | F5 | |
| 18 | 1 | K0 | |
| 19 | 1 | G0 | |
| 20 | 1 | K | |
| 21 | 1 | G5 | |
| 22 | 1 | K | |
| 23 | 1 | K0 | |
| 24 | 3 | F8 | |
| 25 | 1 | G | |
| 26 | 2 | A3 | |
| 27 | 2 | F8 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | −0° | 662 | 4 | 7.0 | −0 | 43.3 | 8.8 |
| 2 | −0° | 659 | 4 | 6.6 | −0 | 52.0 | 8.7 |
| 3 | −1° | 605 | 4 | 7.8 | −1 | 34.5 | 8.8 |
| 4 | −2° | 826 | 4 | 3.6 | −2 | 52.4 | 8.6 |
| 5 | −3° | 725 | 4 | 8.0 | −3 | 32.1 | 8.4 |
| 6 | −3° | 727 | 4 | 8.5 | −3 | 53.5 | 8.5 |
| 7 | −3° | 730 | 4 | 8.9 | −3 | 29.8 | 8.6 |
| 8 | −3° | 732 | 4 | 9.5 | −3 | 28.8 | 8.9 |
| 9 | −3° | 745 | 4 | 12.2 | −3 | 28.1 | 8.8 |
| 10 | −2° | 864 | 4 | 12.5 | −2 | 49.0 | 8.7 |
| 11 | −2° | 863 | 4 | 12.0 | −2 | 5.0 | 9.0 |
| 12 | −2° | 866 | 4 | 12.8 | −2 | 1.4 | 9.1 |
| 13 | −1° | 615 | 4 | 11.6 | −1 | 15.9 | 8.3 |
| 14 | −1° | 612 | 4 | 10.2 | −1 | 14.5 | 8.8 |
| 15 | −1° | 608 | 4 | 9.4 | −1 | 7.9 | 8.8 |
| 16 | −0° | 668 | 4 | 9.2 | −0 | 55.8 | 8.0 |
| 17 | −0° | 667 | 4 | 8.6 | −0 | 48.6 | 9.0 |
| 18 | −1° | 609 | 4 | 9.4 | −1 | 29.6 | 8.8 |
| 19 | −1° | 613 | 4 | 10.1 | −1 | 52.7 | 9.0 |
| 20 | −1° | 609 | 4 | 8.4 | −1 | 56.8 | 8.8 |
| 21 | −2° | 841 | 4 | 7.0 | −2 | 52.4 | 8.7 |
| 22 | −2° | 834 | 4 | 5.7 | −2 | 17.5 | 9.0 |
| 23 | −1° | 616 | 4 | 12.2 | −1 | 36.9 | 9.0 |
| 24 | −1° | 632 | 4 | 16.2 | −1 | 55.5 | 8.9 |
| 25 | −1° | 629 | 4 | 15.8 | −1 | 36.7 | 8.8 |
| 26 | −0° | 697 | 4 | 17.3 | −0 | 40.8 | 9.0 |
| 27 | −0° | 696 | 4 | 16.8 | −0 | 5.0 | 8.7 |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday January 1, 1913

B 10584 59 short.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 3 | Ko | |
| 29 | 10+ | a | |
| ~~30~~ | | | |
| 31 | | | |
| ~~32~~ | | | |
| ~~33~~ | | | |
| 30 | 3 | Ko | |
| 31 | 8 | Ao | |
| 32 | 3 | a2 | |
| 33 | 3 | A3 | |
| 34 | 5 | A5 | |
| 35 | 5 | F8 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -2° | 904 | 4 | 19.6 | -2 | 29.6 | 8.5 | U |
| 29 | -4° | 818 | 4 | 16.5 | -4 | 5.3 | 5.5 | U |

Identified by J. B. W. Jan. 11, 1913

Checked by AMC, Jan. 13, 1913

cards made out by Miss C. W.

Cards checked & made out by S. R. B.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ✓ | 30 | -2° | 820 | 4 | 2.3 | -2 | 4 | 8.5 | 81 on B23816 |
| ✓ | 31 | -3° | 696 | 4 | 2.6 | -3 | 57 | 6.5 | 189 " " |
| ✓ | 32 | -4° | 744 | 4 | 1.3 | -4 | 24 | 8.3 | 190 " " |
| ✓ | 33 | -4° | 736 | 3 | 59.9 | -4 | 46 | 8.8 | 193 " " |
| ✓ | 34 | -0 | 666 | 4 | 8.2 | -0 | 23 | 7.5 | 78 on B23793 |
| ✓ | 35 | -1 | 577 | 3 | 56.8 | -1 | 34 | F3 | 102 on B22816 |

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Wednesday January 1, 1913

Time 12.35

B 11798 Short.

| No. | Int. | class | Remark |
|---|---|---|---|
| 1 | 3 | Fa | |
| 2 | 3 | F5 | |
| 3 | 2 | A | |
| 4 | 4 | K0 | |
| 5 | 10 | K0 | |
| 6 | 4 | M | |
| 7 | 5 | A5 | |
| 8 | 4 | K5 | |
| 9 | 2 | A5 | |
| 10 | 5 | K2 | |
| 11 | 4 | A0 | |
| 12 | 1 | K0 | |
| 13 | 4 | F5 | |
| 14 | 3 | K0 | |
| 15 | 2 | F8 | |
| 16 | 3 | Fa | |
| 17 | 2 | F | |
| 18 | 3 | K5 | |
| 19 | 2 | B5 | |
| 20 | 2 | K5 | |
| 21 | 1 | K | |
| 22 | 1 | K | |
| 23 | 2 | B0 | |
| 24 | 3 | K0 | |
| Time 11.40 25 | 1 | K | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | −10° | 895 | 4 | 13.3 | −10 | 51.1 | 8.5 |
| 2 | −10° | 892 | 4 | 12.7 | −10 | 56.1 | 8.4 |
| 3 | −10° | 884 | 4 | 10.8 | −10 | 20.3 | 9.1 |
| 4 | −10° | 872 | 4 | 7.9 | −10 | 56.6 | 8.1 |
| 5 | −10° | 867 | 4 | 7.5 | −10 | 37.4 | 4.8 |
| 6 | −10° | 863 | 4 | 6.6 | −10 | 45.2 | 7.7 |
| 7 | −10° | 860 | 4 | 5.7 | −10 | 56.7 | 8.3 |
| 8 | −10° | 858 | 4 | 5.3 | −10 | 50.7 | 8.6 |
| 9 | −11° | 825 | 4 | 4.8 | −11 | 17.8 | 8.9 |
| 10 | −11° | 821 | 4 | 3.9 | −11 | 42.8 | 7.8 |
| 11 | −10° | 855 | 4 | 3.3 | −10 | 33.4 | 9.0 |
| 12 | −11° | 809 | 4 | 2.1 | −11 | 19.1 | 8.8 |
| 13 | −12° | 807 | 4 | 2.6 | −12 | 22.6 | 8.4 |
| 14 | −13° | 814 | 4 | 0.6 | −13 | 3.2 | 8.2 |
| 15 | −13° | 812 | 3 | 59.8 | −13 | 36.2 | 8.5 |
| 16 | −12° | 798 | 3 | 59.5 | −12 | 18.2 | 8.7 |
| 17 | −12° | 793 | 3 | 58.9 | −12 | 1.1 | 8.4 |
| 18 | −12° | 823 | 4 | 6.6 | −12 | 40.0 | 8.2 |
| 19 | −13° | 843 | 4 | 7.5 | −13 | 35.6 | 8.6 |
| 20 | −13° | 848 | 4 | 9.7 | −13 | 32.8 | 8.0 |
| 21 | −13° | 857 | 4 | 12.0 | −13 | 37.5 | 8.8 |
| 22 | −13° | 858 | 4 | 12.4 | −13 | 41.0 | 8.8 |
| 23 | −12° | 839 | 4 | 9.7 | −12 | 48.4 | 9.0 |
| 24 | −12° | 855 | 4 | 12.0 | −12 | 5.3 | 8.3 |
| 25 | −11° | 829 | 4 | 6.1 | −11 | 29.8 | 8.6 |

Identified by J.B.W. Jan. 11, 1913.

Checked by AMC Jan. 13, 1913

cards made out by M. C. 25.

Cards checked by ETM.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday January 1, 1913

Time 1.26

T 37625 for Bright Stars

| No. | Dist. | Class | Remarks |
|---|---|---|---|
| 1 | 7 | F2 | |
| 2 | 6 | A2 | |
| 3 | 5 | A2 | |
| 4 | 6 | K0 | |
| 5 | 2 | B9 | |
| 6 | 8 | K5 | |
| 7 | 2 | A0 | |
| 8 | 2 | B9 | |
| 9 | 4 | B9 | |
| 10 | 2 | A5 | |
| 11 | 3 | A0 | |
| 12 | 4 | B9 | |
| 13 | 7 | B8 | E. |
| 14 | 8 | A2 | E. |
| 15 | 10+ | B | |
| 16 | 4 | B9 | |
| 17 | 8 | B3 | |
| 18 | 3 | B8 | |
| 19 | 2 | B9 | |
| 20 | 3 | A0 | |
| 21 | 8 | A0 | |
| 22 | 4 | F | E |
| 23 | 5 | A0 | |
| 24 | 6 | B9 | |
| 25 | 7 | B3 | |
| 26 | 6 | A0 | |
| 27 | 6 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -6° | 1293 | S | 35.9 | -6 | 52.3 | 6.5 | 1 |
| 2 | -6° | 1302 | S | 37.5 | -6 | 55.4 | 7.3 | 1 |
| 3 | -4° | 1231 | S | 37.4 | -4 | 45.8 | 7.5 | 1 |
| 4 | -4° | 1235 | S | 38.8 | -4 | 19.8 | 6.5 | 1 |
| 5 | -4° | 1237 | S | 39.2 | -4 | 4.2 | 8.8 | 1 |
| 6 | -4° | 1244 | S | 41.4 | -4 | 8.6 | 6.5 | 1 |
| 7 | -5° | 1406 | S | 41.5 | -5 | 53.4 | 8.5 | 1 |
| 8 | -6° | 1314 | S | 41.0 | -6 | 10.8 | 8.5 | 1 |
| 9 | -6° | 1313 | S | 40.7 | -6 | 29.5 | 7.7 | 1 |
| 10 | -6° | 1317 | S | 41.3 | -6 | 42.3 | 8.0 | 1 |
| 11 | -7° | 1162 | S | 37.6 | -7 | 49.0 | 8.0 | 1 |
| 12 | -9° | 1213 | S | 36.7 | -9 | 0.4 | 7.3 | 1 |
| 13 | -10° | 1258 | S | 38.9 | -10 | 29.2 | 7.0 | 1 |
| 14 | -10° | 1281 | S | 40.6 | -10 | 35.5 | 6.5 | 1 |
| 15 | -9° | 1235 | S | 40.9 | -9 | 44.2 | 2.5 | 1 |
| 16 | -8° | 1219 | S | 41.2 | -8 | 25.0 | 7.5 | 1 |
| 17 | -7° | 1187 | S | 44.4 | -7 | 34.0 | 6.0 | 1 |
| 18 | -7° | 1192 | S | 44.9 | -7 | 20.5 | 8.0 | 1 |
| 19 | -7° | 1194 | S | 45.3 | -7 | 25.0 | 8.7 | 1 |
| 20 | -7° | 1190 | S | 44.7 | -7 | 58.1 | 8.3 | 1 |
| 21 | -9° | 1255 | S | 45.2 | -9 | 5.4 | 6.0 | 1 |
| 22 | -9° | 1254 | S | 45.2 | -9 | 58.7 | 7.5 | 1 |
| 23 | -9° | 1262 | S | 48.0 | -9 | 12.6 | 8.0 | 1 |
| 24 | -5° | 1434 | S | 46.6 | -5 | 44.3 | 7.0 | 1 |
| 25 | -4° | 1281 | S | 47.4 | -4 | 5.8 | 7.0 | 1 |
| 26 | -4° | 1288 | S | 48.3 | -4 | 57.2 | 7.8 | 1 |
| 27 | -4° | 1289 | S | 48.3 | -4 | 38.4 | 6.0 | 1 |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday January 1, 1913

I 37625

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 28 | 8 | A5 | |
| 29 | 2 | Bq | |
| 30 | 4 | A2 | |
| 31 | 3 | A2 | E |
| 32 | 4 | A | E |
| 33 | 4 | A5 | E |
| 34 | 3 | A | E |
| 35 | 5 | K0 | E |
| 36 | 7 | Bq | E |
| 37 | 3 | K0 | |
| 38 | 2 | A | |
| 39 | 4 | A0 | |
| 40 | 4 | A | E |
| 41 | 8 | A | E |
| 42 | 9 | B | E |
| 43 | 4 | A5 | |
| 44 | 5 | A0 | |
| 45 | 6 | F2 | |
| 46 | 9 | A01 | |
| time 1.35 47 | 10 | B8 | E |
| 48 | | | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | −4° | 1291 | 5 | 48.4 | −4 | 49.0 | 7.0 | J |
| 29 | −3° | 1238 | 5 | 48.9 | −3 | 49.9 | 8.5 | J |
| 30 | −1° | 1060 | 5 | 47.8 | −1 | 57.7 | 8.2 | J |
| 31 | −0° | 1089 | 5 | 41.1 | −0 | 49.1 | 8.0 | J |
| 32 | −0° | 1095 | 5 | 42.2 | −0 | 44.4 | 8.0 | J |
| 33 | −1° | 1031 | 5 | 41.4 | −1 | 32.7 | 7.8 | J |
| 34 | −1° | 1073 | 5 | 49.5 | −1 | 11.2 | 8.4 | J |
| 35 | −1° | 1078 | 5 | 50.8 | −1 | 0.6 | 6.9 | J |
| 36 | −1° | 1083 | 5 | 52.3 | −1 | 26.5 | 7.4 | J |
| 37 | −2° | 1423 | 5 | 50.9 | −2 | 2.6 | 8.0 | J |
| 38 | −2° | 1427 | 5 | 51.3 | −2 | 6.7 | 8.5 | J |
| 39 | −2° | 1458 | 5 | 56.0 | −2 | 28.9 | 7.5 | J |
| 40 | −3° | 1297 | 5 | 59.7 | −3 | 19.2 | 7.0 | J |
| 41 | −3½° | 1362 | 5 | 59.5 | −3½ | 10.7 | 6.0 | J |
| 42 | −6° | 1391 | 5 | 57.2 | −6 | 42.3 | 6.0 | J |
| 43 | −6° | 1412 | 5 | 59.9 | −6 | 12.0 | 6.0 | J |
| 44 | −7° | 1257 | 5 | 55.2 | −7 | 17.6 | 7.0 | J |
| 45 | −9° | 1284 | 5 | 52.1 | −9 | 23.4 | 7.0 | J |
| 46 | −9° | 1285 | 5 | 52.2 | −9 | 35.0 | 5.5 | J |
| 47 | −10° | 1349 | 5 | 55.0 | −10 | 35.9 | 5.6 | J |

Identified by J. B. W. Jan. 11, 1913

Checked by AMC Jan. 13, 1913

cards made out by Miss C. W.

Cards checked by S.I.B.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, Jan. 3 1913

I 38213

Time: 10.02

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 2 | $I_2$ | E. |
| 2 | 1 | $K_5$ | |
| 3 | 2 | $I_{p0}$ | |
| 4 | 1 | $F_2$ | |
| 5 | 1 | $A_2$ | |
| 6 | 1 | $A_{p2}$ | |
| 7 | 1 | $I_{p5}$ | |
| 8 | 1 | $A_{s5}$ | |
| 9 | 6 | $K_0$ | |
| 10 | 4 | $B_5$ | |
| 11 | 1 | $K_0$ | |
| 12 | 3 | $A_0$ | |
| 13 | 2 | $K_5$ | |
| 14 | 3 | $I_{p5}$ | |
| 15 | 3 | $K_0$ | |
| 16 | 1 | $K_0$ | |
| 17 | 4 | $A_2$ | Cuspidia star superposed ? 18 8 14 8 je star to S. from letter |
| 18 | 4 | $B_9$ | |
| 19 | 3 | $B_3$ | |
| 20 | 1 | $I_{p5}$ | |
| 21 | 1 | $I_{p5}$ | E. |
| 22 | 3 | $A_0$ | |
| 23 | 2 | $F_5$ | |
| 10.08 24 | 2 | $I_2$ | E. |
| 10.18 25 | 2 | $K_0$ | |
| 26 | 2 | $F_2$ | |
| 27 | 1 | $A_2$ | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | +22° | 874 | 5 | 8.8 | +22 | 42.0 | 9.0 | ✓ |
| 2 | +22° | 856 | 5 | 5.6 | +22 | 30.2 | 8.6 | ✓ |
| 3 | +22° | 855 | 5 | 5.4 | +22 | 31.7 | 9.2 | ✓ |
| 4 | +21° | 792 | 5 | 4.0 | +21 | 38.8 | 9.0 | ✓ |
| 5 | +19° | 865 | 5 | 3.5 | +19 | 44.8 | 9.1 | ✓ |
| 6 | +19° | 858 | 5 | 2.3 | +19 | 5.5 | 8.9 | ✓ |
| 7 | +18° | 783 | 5 | 0.7 | +18 | 46.4 | 8.2 | ✓ |
| 8 | +20° | 877 | 4 | 57.3 | +20 | 30.4 | 9.3 | ✓ |
| 9 | +21° | 755 | 4 | 55.7 | +21 | 4.6 | 6.7 | ✓ |
| 10 | +21° | 754 | 4 | 55.7 | +21 | 27.7 | 8.2 | ✓ |
| 11 | +21° | 747 | 4 | 53.4 | +21 | 6.4 | 8.6 | ✓ |
| 12 | +22° | 812 | 4 | 55.2 | +22 | 19.6 | 8.8 | ✓ |
| 13 | +23° | 828 | 4 | 55.6 | +23 | 19.0 | 8.0 | ✓ |
| 14 | +23° | 830 | 4 | 55.8 | +23 | 26.8 | 8.5 | ✓ |
| 15 | +23° | 833 | 4 | 56.0 | +23 | 42.7 | 8.5 | ✓ |
| 16 | +23° | 824 | 4 | 55.0 | +23 | 52.6 | 8.4 | ✓ |
| 17 | +23° | 815 | 4 | 54.5 | +23 | 36.5 | 8.7 | Riccardi. 4423°814 magn. 9.2 superpos. |
| 18 | +24° | 733 | 4 | 53.9 | +24 | 5.6 | 8.3 | ✓ |
| 19 | +23° | 804 | 4 | 53.5 | +23 | 48.6 | 8.5 | ✓ |
| 20 | +24° | 730 | 4 | 53.6 | +24 | 16.3 | 8.5 | ✓ |
| 21 | +25° | 773 | 4 | 54.5 | +25 | 33.0 | 8.5 | ✓ |
| 22 | +24° | 758 | 4 | 58.1 | +24 | 11.4 | 8.8 | ✓ |
| 23 | +24° | 753 | 4 | 58.8 | +24 | 37.0 | 9.0 | ✓ |
| 24 | +24° | 772 | 4 | 1.9 | +24 | 57.0 | 8.3 | ✓ |
| 25 | +20° | 869 | 4 | 54.7 | +20 | 42.9 | 8.3 | ✓ |
| 26 | +19° | 839 | 4 | 53.8 | +19 | 44.5 | 8.8 | ✓ |
| 27 | +19° | 894 | 4 | 51.8 | +19 | 33.1 | 9.1 | ✓ |

cards made out

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Friday Jan. 3 1913.
I 38213

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 2 | K0 | |
| 29 | 2 | K5 | |
| 30 | 1 | K5 | |
| June 1920 31 | 2 | K2 | |
| ~~32~~ | | | |
| ~~33~~ | | | |
| 32 | 5 | K0 | |
| 33 | 8 | B8 | Hγ bright? not seen distinctly |
| 34 | 3 | B5 | |
| 35 | 10 | G0 | |
| 36 | 2 | G0 | |
| 37 | ~~3~~ 2 | A2 | |
| 38 | 2 | A0 | |
| 39 | 3 | B9 | 4128,31 shrunk. |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | +19° | 8.31 | 4 | 50.9 | +19 | 58.3 | 8.7 | ✓ |
| 29 | +18° | 763 | 4 | 49.6 | +18 | 49.9 | 9.1 | ✓ |
| 30 | +19° | 8.19 | 4 | 49.0 | +19 | 5.7 | 9.0 | ✓ |
| 31 | +22° | 754 | 4 | 38.8 | +22 | 3.2 | 8.7 | ✓ |

Identified by J. B. W. Jan. 11, 1913
Checked by AMC. Jan. 13, 1913
cards made out by M. C. W.
Cards checked by E.P.K.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 32 | +23° | 837 | 4 | 56.4 | +23 | 36 | 8.0 | |
| 33 | +21° | 766 | 4 | 59.3 | +21 | 30 | 6.3 | |

Identified on cards by AMC. Mar. 31, 1915
checked by comparison with cards already checked A.J.C.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ✓ | 34 | +24° | 719 | 4 | 50.0 | +24 | 16 | 8.0 | 70 on I 38153 |
| ✓ | 35 | +18° | 779 | 4 | 58.9 | +18 | 27 | 5.2 | 45 on I 37388 |
| ✓ | 36 | +21° | 783 | 5 | 2.3 | +21 | 36 | 8.6 | 97 " " |
| ✓ | 37 | +21° | 779 | 5 | 1.6 | +21 | 48 | 9.0 | 100 " " |
| ✓ | 38 | +21° | 774 | 5 | 1.0 | +21 | 39 | 9.1 | 103 " " |
| ✓ | 39 | +23° | 855 | 4 | 59.6 | +23 | 3 | 8.8 | 142 " " |

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday Jan. 3. 1913.

Time 11.52

I 38126

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 2 | A0 | |
| 2 | 2 | A0 | |
| 3 | 1 | K5 | |
| 4 | 3 | A0 | |
| 5 | 2 | K5 | |
| 6 | 2 | A0 | |
| 7 | 3 | A | Another star superposed? yes |
| 8 | 5 | A2 | |
| 9 | 4 | A0 | |
| 10 | 2 | K0 | |
| 11 | 5 | F5 | |
| 12 | 1 | F3 | |
| 13 | 6 | A3 | Lines 4077, 4132, 31 + other metallic strong. Comp? |
| 14 | 1 | A | |
| 15 | 1 | K5 | |
| 16 | 2 | F5 | |
| 17 | 5 | F0 | |
| 18 | 2 | A0 | |
| 19 | 3 | A2 | |
| 20 | 3 | A0 | |
| 21 | 4 | F5 | |
| 22 | 3 | F5 | |
| 23 | 1 | A0 | |
| 24 | 1 | A5 | |
| 25 | 1 | M | |
| 26 | 1 | K5 | |
| 27 | 4 | F0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | +31° | 1226 | 6 | 2.9 | +31 | 27.1 | 8.8 | ✓ |
| 2 | +31° | 1227 | 6 | 3.0 | +31 | 26.0 | 9.0 | ✓ |
| 3 | +31° | 1231 | 6 | 4.1 | +31 | 26.6 | 9.0 | ✓ |
| 4 | +31° | 1239 | 6 | 5.4 | +31 | 42.4 | 8.6 | ✓ |
| 5 | +31° | 1244 | 6 | 5.8 | +31 | 30.4 | 8.0 | ✓ |
| 6 | +31° | 1246 | 6 | 6.3 | +31 | 52.8 | 8.5 | ✓ |
| 7 | +32° | 1227 | 6 | 5.0 | +32 | 29.0 | 9.2 | 4 32° 1226 Superposed meas 8.9 |
| 8 | +33° | 1286 | 6 | 6.5 | +33 | 13.7 | 7.5 | ✓ |
| 9 | +32° | 1234 | 6 | 6.7 | +32 | 56.8 | 8.0 | ✓ |
| 10 | +32° | 1238 | 6 | 7.3 | +32 | 17.6 | 8.4 | ✓ |
| 11 | +32° | 1243 | 6 | 8.0 | +32 | 18.8 | 8.0 | ✓ |
| 12 | +32° | 1244 | 6 | 8.2 | +32 | 38.3 | 9.2 | ✓ |
| 13 | +32° | 1246 | 6 | 8.4 | +32 | 32.7 | 8.0 | ✓ |
| 14 | +32° | 1247 | 6 | 8.4 | +32 | 56.2 | 9.0 | ✓ |
| 15 | +33° | 1292 | 6 | 8.8 | +33 | 12.6 | 8.8 | ✓ |
| 16 | +33° | 1294 | 6 | 9.2 | +33 | 31.7 | 8.5 | ✓ |
| 17 | +33° | 1297 | 6 | 9.5 | +33 | 50.7 | 7.8 | ✓ |
| 18 | +32° | 1251 | 6 | 9.1 | +32 | 21.4 | 8.8 | ✓ |
| 19 | +32° | 1264 | 6 | 12.0 | +32 | 27.8 | 8.5 | ✓ |
| 20 | +32° | 1268 | 6 | 12.1 | +32 | 47.6 | 8.5 | ✓ |
| 21 | +32° | 1268 | 6 | 13.1 | +32 | 49.7 | 8.0 | ✓ |
| 22 | +31° | 1271 | 6 | 11.4 | +31 | 41.8 | 7.7 | ✓ |
| 23 | +31° | 1272 | 6 | 11.6 | +31 | 23.0 | 8.8 | ✓ |
| 24 | +31° | 1274 | 6 | 12.2 | +31 | 17.9 | 8.9 | ✓ |
| 25 | +31° | 1274 | 6 | 12.2 | +31 | 4.5 / 17.9 | 8.9 | ✓ |
| 26 | +30° | 1210 | 6 | 12.7 | +30 | 54.0 | 9.2 | ✓ |
| 27 | +31° | 1278 | 6 | 13.1 | +31 | 0.7 | 7.8 | ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday. Jan. 3. 1913.
I 38126

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 5 | F0 | |
| 29 | 2 | G5 | |
| 30 | 8 | A0 | |
| 31 | 9 | A0 | |
| 32 | 5 | F0 | |
| 33 | 2 | A0 | |
| 34 | 3 | B9 | |
| 35 | 1 | A0 | |
| 36 | 7 | A0 | |
| 37 | 3 | A2 | |
| 38 | 1 | F | |
| 39 | 7 | A0 | |
| 40 | 4 | A0 | |
| 41 | 3 | A | E. |
| 42 | 1 | A | E. |
| 43 | 10 | F0 | |
| 44 | 1 | A | Partly superposed on 43 |
| 45 | 1 | A2 | E. |
| 46 | 2 | A | E. |
| 47 | 2 | F0 | |
| 48 | 1 | A0 | |
| 49 | 3 | G5 | |
| 50 | 1 | F | |
| 51 | 6 | F0 | |
| 52 | 2 | A3 | |
| 53 | 3 | G0 | |
| 54 | 2 | F5 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 28 | +30° | 1196 | 6 | 10.9 | +30 | 25.6 | 7.8 ✓ |
| 29 | +30° | 1209 | 6 | 12.4 | +30 | 27.0 | 8.1 ✓ |
| 30 | +30° | 1211 | 6 | 12.8 | +30 | 1.6 | 7.0 ✓ |
| 31 | +29° | 1189 | 6 | 11.8 | +29 | 25.6 | 7.0 ✓ |
| 32 | +29° | 1190 | 6 | 11.9 | +29 | 35.7 | 6.4 ✓ |
| 33 | ~~+29°~~ 30° | 1161 | 6 | 5.4 | ~~+29~~ +30 | 59.3 | 8.6 ✓ |
| 34 | ~~+29°~~ 30° | 1167 | 6 | 6.5 | ~~+29~~ +30 | 49.7 | 8.5 ✓ |
| 35 | ~~+29°~~ 30° | 1168 | 6 | 6.6 | ~~+29~~ +30 | 33.4 | 8.7 ✓ |
| 36 | +29° 31° | 1172 | 6 | 7.1 | +29 30 | 8.6 | 7.0 ✓ |
| 37 | +29° 30° | 1177 | 6 | 7.6 | +29 30 | 2.8 | 8.0 ✓ |
| 38 | +30° | 1185 | 6 | 9.1 | +30 | 18.8 | 8.7 ✓ |
| 39 | +29° | 1170 | 6 | 9.3 | +29 | 50.3 | 7.0 ✓ |
| 40 | +29° | 1165 | 6 | 8.5 | +29 | 15.9 | 7.7 ✓ |
| 41 | +28° | 1062 | 6 | 7.2 | +28 | 58.6 | 7.5 ✓ |
| 42 | +29° | 1153 | 6 | 6.0 | +29 | 19.2 | 8.3 ✓ |
| 43 | +29° | 1154 | 6 | 6.1 | +29 | 33.0 | 4.4 ✓ |
| 44 | +29° | 1155 | 6 | 6.2 | +29 | 16.0 | 8.5 ✓ |
| 45 | +29° | 1145 | 6 | 3.6 | +29 | 26.0 | 8.9 ✓ |
| 46 | +29° | 1147 | 6 | 4.0 | +29 | 4.2 | 8.2 ✓ |
| 47 | +31° | 1251 | 6 | 7.2 | +31 | 35.5 | 7.8 ✓ |
| 48 | +31° | 1263 | 6 | 9.1 | +31 | 9.8 | 8.6 ✓ |
| 49 | +32° | 1277 | 6 | 14.4 | +32 | 26.1 | 8.2 ✓ |
| 50 | +31° | 1283 | 6 | 14.4 | +31 | 50.7 | 8.5 ✓ |
| 51 | +32° | 1287 | 6 | 15.8 | +32 | 21.0 | 7.5 ✓ |
| 52 | +32° | 1292 | 6 | 16.5 | +32 | 33.4 | 8.7 ✓ |
| 53 | +33° | 1318 | 6 | 16.0 | +33 | 19.0 | 8.4 ✓ |
| 54 | +33° | 1320 | 6 | 16.7 | +33 | 12.0 | 8.5 ✓ |

cards made out

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Friday, Jan. 3, 1913.
I 38126

| No | Int. | Class | Remark |
|---|---|---|---|
| 55 | 7 | F0 | |
| 56 | 2 | F2 | |
| 57 | 3 | F0 | |
| 58 | 2 | F2 | |
| 59 | 1 | F2 | |
| 60 | 2 | G5 | |
| 61 | 2 | Ma | |
| 62 | 2 | F0 | |
| 63 | 1 | F0 | |
| 64 | 2 | F0 | |
| 65 | 3 | F5 | |
| 66 | 2 | A2 | |
| 67 | 2 | A | Imagi defective. |
| 68 | 3 | A2 | |
| 69 | 2 | F0 | E. |
| 70 | 3 | A2 | |
| 71 | 8 | F2 | Hydrogen lines sharp. |
| 72 | 1 | G5 | |
| 73 | 1 | Mb | |
| 74 | 7 | F0 | |
| 75 | 6 | K3 | |
| 76 | 2 | K2 | |
| 77 | 2 | A0 | |
| 78 | 4 | F0 | |
| 79 | 5 | F8 | |
| 80 | 2 | A3 | |
| 81 | 2 | F0 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 55 | +32° | 1300 | 6 | 18.1 | +32 | 38.6 | 6.5 | 1 |
| 56 | +32° | 1302 | 6 | 18.4 | +32 | 57.4 | 8.4 | 1 |
| 57 | +33° | 1329 | 6 | 18.9 | +33 | 14.4 | 8.5 | 1 |
| 58 | +33° | 1332 | 6 | 19.6 | +33 | 25.2 | 8.1 | 1 |
| 59 | +32° | 1311 | 6 | 20.7 | +32 | 52.5 | 8.6 | 1 |
| 60 | +32° | 1314 | 6 | 21.2 | +32 | 52.0 | 8.4 | 1 |
| 61 | +32° | 1316 | 6 | 21.5 | +32 | 54.4 | 8.1 | 1 |
| 62 | +32° | 1319 | 6 | 21.9 | +32 | 12.7 | 8.2 | 1 |
| 63 | +32° | 1304 | 6 | 19.0 | +32 | 13.2 | 8.3 | 1 |
| 64 | +32° | 1306 | 6 | 19.6 | +32 | 30.5 | 8.4 | 1 |
| 65 | +33° | 1337 | 6 | 21.6 | +33 | 50.9 | 7.8 | 1 |
| 66 | +33° | 1342 | 6 | 22.3 | +33 | 40.8 | 8.9 | 1 |
| 67 | +33° | 1343 | 6 | 22.7 | +33 | 47.0 | 8.9 | 1 |
| 68 | +33° | 1345 | 6 | 23.0 | +33 | 36.4 | 8.5 | 1 |
| 69 | +33° | 1354 | 6 | 23.9 | +33 | 26.5 | 8.8 | 1 |
| 70 | +32° | 1323 | 6 | 23.0 | +32 | 55.2 | 8.8 | 1 |
| 71 | +35° | 1375 | 6 | 7.8 | +35 | 11.4 | 6.5 | 1 |
| 72 | +35° | 1376 | 6 | 8.1 | +35 | 22.3 | 8.5 | 1 |
| 73 | +35° | 1377 | 6 | 8.3 | +35 | 39.2 | 8.6 | 1 |
| 74 | +35° | 1380 | 6 | 9.2 | +35 | 14.9 | 7.0 | 1 |
| 75 | +34° | 1319 | 6 | 9.9 | +34 | 41.5 | 7.8 | 1 |
| 76 | +34° | 1318 | 6 | 9.4 | +34 | 16.8 | 8.7 | 1 |
| 77 | +35° | 1388 | 6 | 10.2 | +35 | 5.6 | 8.8 | 1 |
| 78 | +35° | 1387 | 6 | 12.3 | +35 | 17.0 | 8.1 | 1 |
| 79 | +34° | 1327 | 6 | 12.4 | +34 | 39.8 | 7.2 | 1 |
| 80 | +34° | 1329 | 6 | 13.0 | +34 | 44.0 | 8.8 | 1 |
| 81 | +34° | 1331 | 6 | 13.9 | +34 | 20.1 | 8.2 | 1 |

Cards made out

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Friday, Jan. 2, 1913.
E 38126

| No | Int. | Class | Remark |
|---|---|---|---|
| 82 | 3 | A0 | |
| 83 | 8 | A0 | |
| 84 | 4 | A2 | |
| 85 | 6 | K0 | |
| 86 | 4 | K2 | |
| 87 | 2 | A3 | |
| 88 | 6 | K3 | |
| 89 | 3 | A2 | |
| 90 | 5 | K0 | |
| 91 | 3 | A0 | |
| 92 | 7 | K0 | |
| 93 | 2 | K0 | |
| 94 | 2 | K0 | |
| 95 | 5 | A3 | |
| 96 | 4 | K8 | |
| 97 | 8 | A0 | |
| 98 | 6 | A3 | |
| 99 | 3 | K5 | Perhaps Nova. |
| 100 | 1 | K | |
| 101 | 1 | A3 | |
| 102 | 2 | K5 | |
| 103 | 2 | A | E. |
| 104 | 2 | K2 | |
| 105 | 2 | A2 | E. |
| 106 | 4 | A2 | |
| 107 | 7 | K2 | |
| 108 | 3 | A5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | +34° | 1386 | 6 | 15.0 | +34 | 27.7 | 8.6 ✓ |
| 83 | +35° | 1392 | 6 | 13.5 | +35 | 35.7 | 7.0 ✓ |
| 84 | +35° | 1395 | 6 | 14.8 | +35 | 30.9 | 8.3 ✓ |
| 85 | +35° | 1397 | 6 | 15.0 | +35 | 19.4 | 7.5 ✓ |
| 86 | +35° | 1399 | 6 | 15.0 | +35 | 13.3 | 8.1 ✓ |
| 87 | +35° | 1401 | 6 | 15.7 | +35 | 47.8 | 8.9 ✓ |
| 88 | +35° | 1408 | 6 | 17.3 | +35 | 30.8 | 7.4 ✓ |
| 89 | +36° | 1430 | 6 | 17.2 | +36 | 16.6 | 8.4 ✓ |
| 90 | +36° | 1436 | 6 | 18.2 | +36 | 17.5 | 7.7 ✓ |
| 91 | +36° | 1439 | 6 | 18.4 | +36 | 8.5 | 8.4 ✓ |
| 92 | +36° | 1442 | 6 | 19.0 | +36 | 34.9 | 7.4 ✓ |
| 93 | +35° | 1415 | 6 | 18.1 | +35 | 25.4 | 8.2 ✓ |
| 94 | +35° | 1416 | 6 | 18.2 | +35 | 5.3 | 8.1 ✓ |
| 95 | +35° | 1417 | 6 | 18.7 | +35 | 7.1 | 8.7 ✓ |
| 96 | +35° | 1420 | 6 | 19.0 | +35 | 20.8 | 8.5 ✓ |
| 97 | +34° | 1356 | 6 | 19.0 | +34 | 56.9 | 7.0 ✓ |
| 98 | +34° | 1355 | 6 | 18.8 | +34 | 34.2 | 7.5 ✓ |
| 99 | +34° | 1343 | 6 | 16.9 | +34 | 5.1 | 7.5 ✓ |
| 100 | +34° | 1351 | 6 | 18.3 | +34 | 0.1 | 8.6 ✓ |
| 101 | +33° | 1328 | 6 | 18.7 | +33 | 49.2 | 8.9 ✓ |
| 102 | +34° | 1371 | 6 | 21.2 | +34 | 55.5 | 8.3 ✓ |
| 103 | +34° | 1373 | 6 | 21.6 | +34 | 53.1 | 9.0 ✓ |
| 104 | +34° | 1379 | 6 | 22.5 | +34 | 40.7 | 8.2 ✓ |
| 105 | +34° | 1384 | 6 | 23.1 | +34 | 27.9 | 9.0 ✓ |
| 106 | +36° | 1446 | 6 | 20.0 | +36 | 42.0 | 8.0 ✓ |
| 107 | +37° | 1524 | 6 | 21.7 | +37 | 16.2 | 6.5 ✓ |
| 108 | +36° | 1452 | 6 | 22.2 | +36 | 42.3 | 7.8 ✓ |

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Friday. Jan 3. 1913.
I 38126

| No. | Int | Class | Remark |
|---|---|---|---|
| 109 | 1 | K2 | |
| 110 | 2 | K0 | |
| 111 | 3 | K0 | |
| 112 | 3 | A2 | |
| 113 | 1 | A | |
| 114 | 2 | K5 | |
| 115 | 2 | K2 | |
| 116 | 2 | K | |
| 117 | 4 | K0 | |
| 118 | 4 | A0 | |
| 119 | 3 | K2 | |
| 120 | 5 | Comp. | K = 0.214. Ba. = K. Kk = A |
| 121 | 3 | Neb | |
| 122 | 2 | K0 | |
| 123 | 3 | B9 | |
| 124 | 2 | K0 | |
| 125 | 2 | K0 | |
| 126 | 1 | A | |
| 127 | 1 | A | |
| 128 | 6 | B9 | |
| 129 | 2 | A0 | |
| 130 | 5 | K5 | |
| 131 | 3 | K0 | |
| 132 | 3 | A0 | |
| 133 | 3 | A2 | |
| 134 | 4 | A2 | |
| 135 | 2 | K2 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 109 | +35° | 1426 | 6 | 20.2 | +35 | 55.9 (42.3) | 8.9 (6) |
| 110 | +35° | 1424 | 6 | 19.9 | +35 | 45.3 | 8.6 |
| 111 | +35° | 1316 | 5 | 52.6 | +35 | 19.6 | 8.5 |
| 112 | +35° | 1324 | 5 | 54.0 | +35 | 8.1 | 8.4 |
| 113 | +34° | 1239 | 5 | 52.8 | +34 | 13.6 | 9.3 |
| 114 | +34° | 1250 | 5 | 54.5 | +34 | 41.2 | 8.7 |
| 115 | +34° | 1249 | 5 | 54.4 | +34 | 22.4 | 8.2 |
| 116 | +34° | 1255 | 5 | 56.3 | +34 | 58.5 | 8.9 |
| 117 | +35° | 1339 | 5 | 57.4 | +35 | 14.4 | 7.7 |
| 118 | +34° | 1260 | 5 | 57.6 | +34 | 49.7 | 8.2 |
| 119 | +34° | 1266 | 5 | 58.4 | +34 | 50.9 | 8.0 |
| 120 | +35° | 1345 | 5 | 58.8 | +35 | 8.3 | 8.0 |
| 121 | +34° | 1272 | 5 | 59.4 | +34 | 54.8 | 7.7 |
| 122 | +34° | 1279 | 6 | 0.3 | +34 | 10.3 | 8.5 |
| 123 | +33° | 1270 | 6 | 1.9 | +33 | 55.6 | 8.6 |
| 124 | +33° | 1265 | 6 | 1.2 | +33 | 1.1 | 8.2 |
| 126 | +33° | 1260 | 6 | 0.7 | +33 | 18.3 | 8.8 |
| 126 | +33° | 1263 | 6 | 1.1 | +33 | 27.5 | 8.9 |
| 127 | +33° | 1264 | 6 | 1.2 | +33 | 38.8 | 8.9 |
| 128 | +33° | 1274 | 6 | 3.1 | +33 | 0.0 | 8.0 |
| 129 | +33° | 1275 | 6 | 3.8 | +33 | 11.9 | 8.6 |
| 130 | +33° | 1280 | 6 | 4.5 | +33 | 16.5 | 6.7 |
| 131 | +33° | 1279 | 6 | 4.2 | +33 | 40.0 | 7.6 |
| 132 | +33° | 1282 | 6 | 5.6 | +33 | 52.3 | 8.5 |
| 133 | +33° | 1287 | 6 | 6.5 | +33 | 57.7 | 8.1 |
| 134 | +34° | 1304 | 6 | 6.0 | +34 | 43.3 | 8.1 |
| 135 | +35° | 1366 | 6 | 5.2 | +35 | 16.0 | 8.9 |

Cards made out

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Friday Jan. 3, 1913.
I 38126

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 1 | Ly | |
| 137 | 8 | F5 | |
| 138 | 3 | Ao | |
| 139 | 8 | A | |
| 140 | 3 | Ly5 | |
| 141 | 3 | F0 | |
| 142 | 1 | Ly | |
| 143 | 1 | F5 | |
| 144 | 2 | Ao | |
| 145 | 8 | K3g | |
| 146 | 5 | K2 | |
| 147 | 1 | K0 | |
| 148 | 3 | K5 | |
| 149 | 3 | Ao | |
| 150 | 2 | Ao | |
| 151 | 4 | F8 | |
| 152 | 3 | A | E. |
| 153 | 8 | B8 | |
| 154 | 6 | K3g | |
| 155 | 6 | K0 | |
| 156 | 3 | Ao | |
| 157 | 2 | F5 | |
| 158 | 2 | Ao | |
| 159 | 2 | K0 | |
| 160 | 1 | Ly | |
| 161 | 1 | F5 | |
| 162 | 2 | K0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 136 | +35° | 1370 | 6 | 5.7 | +35 | 2.2 | 8.8 |
| 137 | +36° | 1388 | 6 | 5.9 | +36 | 11.5 | 6.6 |
| 138 | +36° | 1380 | 6 | 2.5 | +36 | 9.6 | 8.5 |
| 139 | +35° | 1356 | 6 | 2.2 | +35 | 32.4 | 8.5 |
| 140 | +35° | 1362 | 6 | 3.3 | +35 | 22.5 | 8.2 |
| 141 | +36° | 1339 | 5 | 53.3 | +36 | 31.7 | 8.2 |
| 142 | +36° | 1341 | 5 | 53.6 | +36 | 23.6 | 8.8 |
| 143 | +36° | 1343 | 5 | 54.0 | +36 | 25.3 | 8.9 |
| 144 | +36° | 1348 | 5 | 55.6 | +36 | 22.3 | 9.0 |
| 145 | +36° | 1360 | 5 | 57.6 | +36 | 16.1 | 6.8 |
| 146 | +36° | 1364 | 5 | 58.1 | +36 | 4.6 | 7.4 |
| 147 | +35° | 1341 | 5 | 57.8 | +35 | 41.9 | 8.5 |
| 148 | +36° | 1367 | 5 | 59.1 | +36 | 41.4 | 7.7 |
| 149 | +37° | 1427 | 5 | 59.8 | +37 | 13.3 | 8.3 |
| 150 | +37° | 1429 | 6 | 0.0 | +37 | 6.8 | 8.7 |
| 151 | +37° | 1428 | 6 | 0.0 | +37 | 35.4 | 8.0 |
| 152 | +37° | 1434 | 6 | 1.0 | +37 | 43.4 | 8.5 |
| 153 | +37° | 1443 | 6 | 3.6 | +37 | 11.4 | 7.0 |
| 154 | +37° | 1448 | 6 | 4.2 | +37 | 21.2 | 7.9 |
| 155 | +37° | 1469 | 6 | 6.2 | +37 | 41.9 | 7.5 |
| 156 | +37° | 1478 | 6 | 10.2 | +37 | 14.1 | 8.4 |
| 157 | +36° | 1402 | 6 | 10.2 | +36 | 16.3 | 8.6 |
| 158 | +36° | 1406 | 6 | 11.1 | +36 | 37.9 | 8.3 |
| 159 | +36° | 1407 | 6 | 11.2 | +36 | 22.7 | 7.8 |
| 160 | +36° | 1412 | 6 | 13.1 | +36 | 8.4 | 8.6 |
| 161 | +36° | 1416 | 6 | 13.4 | +36 | 8.4 | 9.1 |
| 162 | +36° | 1422 | 6 | 15.1 | +36 | 6.6 | 8.0 |

cards made out

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Friday, Jan. 3, 1913.
I 38126

| No. | Int. | Class | Remark |
|---|---|---|---|
| 163 | 4 | H0 | |
| 164 | 5 | K5 | |
| 165 | 8 | A2 | |
| 166 | 3 | K0 | |
| 167 | 4 | K0 | |
| 168 | 7 | F8 | |
| 169 | 10 | A2 | |
| 170 | 5 | K0 | |
| 171 | 7 | A2 | |
| 172 | 5 | A0 | |
| 173 | 8 | B9 | |
| 174 | 4 | K0 | |
| 175 | 8 | F8 | |

Line: 12.22

enl. 132, 13K



| | | | | | | |
|---|---|---|---|---|---|---|
| 163 | +37° | 1501 | 6 | 14.6 | +37 | 24.2 | 6.8 | K |
| 164 | +38° | 1490 | 6 | 15.8 | +38 | 7.4 | 7.5 | K |
| 165 | +38° | 1452 | 6 | 9.7 | +38 | 29.4 | 7.0 | K |
| 166 | +38° | 1475 | 6 | 13.4 | +38 | 5.9 | 7.8 | K |
| 167 | +38° | 1484 | 6 | 14.5 | +38 | 38.0 | 7.7 | K |
| 168 | +37° | 1405 | 5 | 55.1 | +37 | 58.0 | 6.7 | K |
| 169 | +38° | 1377 | 5 | 56.6 | +38 | 29.9 | 6.0 | K |
| 170 | +38° | 1382 | 5 | 57.6 | +38 | 5.4 | 7.0 | K |
| 171 | +37° | 1421 | 5 | 58.2 | +37 | 59.7 | 7.2 | K |
| 172 | +38° | 1391 | 5 | 59.6 | +38 | 19.0 | 7.5 | K |
| 173 | +29° | 1213 | 6 | 15.6 | +29 | 47.4 | 6.8 | K |
| 174 | +30° | 1232 | 6 | 18.3 | +30 | 43.6 | 7.1 | K |
| 175 | +30° | 1238 | 6 | 19.2 | +30 | 34.9 | 6.0 | K |

Identified by ANC. Jan. 16, 1913
Checked by J.C.M. Jan. 24, 1913
Cards made out by M. C. W.
Cards checked by S.R.B.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday Jan. 6. 1913.

Time: 12.00

T 38205 long. disp.

| No | Int | Class | Remarks |
|---|---|---|---|
| 1 | 2 | $A_2$ | E. |
| 2 | 3 | F | E. Focus poor. |
| 3 | 2 | $A_3$ | E. |
| 4 | 3 | $A_0$ | |
| 5 | 3 | A | |
| 6 | 2 | A | Superposed on 5. |
| 7 | 10 | $A_0$ | |
| 8 | 7 | $A_0$ | |
| 9 | 4 | A | E. |
| 10 | 5 | $K_0$ | E. |
| 11 | 8 | $K_3$ | E. |
| 12 | 3 | $F_3$ | |
| 13 | 2 | $A_0$ | |
| 14 | 3 | $G_0$ | |
| 15 | 5 | $A_0$ | |
| 16 | 9 | $A_0$ | |
| 17 | 3 | $A_0$ | |
| 18 | 2 | $G_5$ | |
| 19 | 3 | $A_2$ | |
| 20 | 3 | $K_2$ | |
| 21 | 2 | $A_0$ | |
| 22 | 7 | $A_0$ | |
| 23 | 2 | $F_1$ | |
| 24 | 7 | A | E. |
| 25 | 2 | $K_0$ | |
| 26 | 1 | A | |
| 27 | 4 | $F_8$ | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | +2° | 1087 | 5 | 48.5 | +2 | 24.8 | 9.1 ✓ |
| 2 | +1° | 1161 | 5 | 48.7 | +1 | 46.0 | 9.2 ✓ +1°1163 superposed. mogn. 9.2 |
| 3 | +2° | 1095 | 5 | 50.2 | +2 | 34.5 | 9.1 ✓ |
| 4 | +2° | 1104 | 5 | 52.1 | +2 | 57.4 | 8.8 ✓ |
| 5 | +0° | 1229 | 5 | 50.0 | +0 | 21.7 | 9.2 ✓ |
| 6 | +0° | 1230 | 5 | 50.0 | +0 | 22.7 | 9.0 ✓ |
| 7 | +0° | 1239 | 5 | 51.4 | +0 | 31.7 | 5.7 ✓ |
| 8 | +0° | 1227 | 5 | 50.0 | +0 | 0.4 | 8.1 ✓ |
| 9 | −1° | 1073 | 5 | 49.5 | −1 | 11.2 | 8.4 ✓ |
| 10 | −1° | 1078 | 5 | 50.8 | −1 | 0.6 | 6.9 ✓ |
| 11 | −1° | 1083 | 5 | 52.3 | −1 | 26.5 | 7.4 ✓ |
| 12 | −0° | 1137 | 5 | 52.7 | −0 | 31.0 | 8.0 ✓ |
| 13 | −0° | 1138 | 5 | 53.0 | −0 | 41.5 | 8.6 ✓ |
| 14 | +0° | 1242 | 5 | 52.4 | +0 | 2.0 | 8.6 ✓ |
| 15 | +1° | 1191 | 5 | 54.6 | +1 | 45.4 | 8.7 ✓ |
| 16 | +1° | 1195 | 5 | 54.8 | +1 | 40.8 | 7.4 ✓ |
| 17 | +1° | 1196 | 5 | 54.9 | +1 | 5.0 | 9.1 ✓ |
| 18 | +1° | 1197 | 5 | 55.2 | +1 | 6.3 | 8.7 ✓ |
| 19 | −0° | 1144 | 5 | 54.8 | −0 | 5.5 | 8.9 ✓ |
| 20 | −0° | 1150 | 5 | 55.8 | −0 | 35.3 | 8.0 ✓ |
| 21 | −0° | 1149 | 5 | 56.4 | −0 | 56.3 | 9.0 ✓ |
| 22 | −1° | 1104 | 5 | 57.4 | −1 | 34.1 | 7.4 ✓ |
| 23 | −1° | 1105 | 5 | 57.6 | −1 | 7.0 | 8.5 ✓ |
| 24 | −2° | 1458 | 5 | 56.0 | −2 | 28.9 | 7.5 ✓ |
| 25 | −0° | 1164 | 5 | 58.1 | −0 | 31.7 | 8.5 ✓ |
| 26 | −1° | 1108 | 5 | 58.2 | −1 | 13.8 | 9.0 ✓ |
| 27 | −0° | 1172 | 5 | 59.1 | −0 | 59.8 | 8.0 ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, Jan 6, 1913.

I 38305 long disp.

| No | Int. | Class | Remarks |
|---|---|---|---|
| 28 | 2 | A0 | |
| 29 | 1 | G5 | |
| 30 | 1 | K0 | |
| 31 | 3 | A0 | |
| 32 | 3 | A0 | |
| 33 | 3 | K0 | |
| 34 | 3 | G0 | |
| 35 | 5 | B9 | |
| 36 | 6 | B9 | |
| 37 | 4 | A0 | |
| 38 | 3 | B9 | |
| 39 | 3 | A0 | |
| 40 | 2 | B | Hydrogen lines hardly seen. |
| 41 | 4 | B9 | |
| 42 | 3 | A0 | |
| 43 | 6 | K0 | |
| 44 | 4 | M0 | |
| 45 | 6 | F2 | |
| 46 | 2 | A2 | |
| 47 | 2 | A0 | |
| 48 | 1 | K0 | |
| 49 | 1 | G5 | |
| 50 | 2 | A0 | Line 4128, 3i strong. |
| 51 | 2 | A2 | |
| 52 | 2 | A2 | |
| 53 | 3 | A0 | |
| 54 | 2 | G0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | −0° | 1177 | 5 | 59.9 | −0 | 53.4 | 8.9 | ✓ |
| 29 | −1° | 1116 | 6 | 0.2 | −1 | 13.0 | 8.8 | ✓ |
| 30 | −1° | 1120 | 6 | 0.9 | −1 | 24.1 | 8.4 | ✓ |
| 31 | −1° | 1114 | 6 | 0.0 | −1 | 56.2 | 8.6 | ✓ |
| 32 | −1° | 1121 | 6 | 1.0 | −1 | 55.7 | 8.7 | ✓ |
| 33 | −0° | 1192 | 6 | 2.2 | −0 | 22.7 | 8.5 | ✓ |
| 34 | −0° | 1194 | 6 | 2.7 | −0 | 33.1 | 9.0 | ✓ |
| 35 | −0° | 1193 | 6 | 2.7 | −0 | 17.3 | 8.5 | ✓ |
| 36 | +1° | 1235 | 6 | 2.3 | +1 | 0.0 | 8.2 | ✓ |
| 37 | +0° | 1317 | 6 | 4.4 | +0 | 46.7 | 8.8 | ✓ |
| 38 | +0° | 1324 | 6 | 5.5 | +0 | 47.6 | 8.6 | ✓ |
| 39 | +0° | 1328 | 6 | 5.8 | +0 | 37.1 | 8.5 | ✓ |
| 40 | +0° | 1327 | 6 | 5.8 | +0 | 11.7 | 8.5 | ✓ |
| 41 | −0° | 1204 | 6 | 4.2 | −0 | 44.7 | 8.5 | ✓ |
| 42 | +0° | 1264 | 5 | 56.8 | +0 | 37.3 | 8.7 | ✓ |
| 43 | +0° | 1269 | 5 | 57.7 | +0 | 52.2 | 7.7 | ✓ |
| 44 | +0° | 1270 | 5 | 57.9 | +0 | 37.1 | 7.0 | ✓ |
| 46 | +1° | 1218 | 5 | 59.7 | +1 | 30.9 | 8.1 | ✓ |
| 46 | +1° | 1241 | 6 | 3.7 | +1 | 36.7 | 9.0 | ✓ |
| 47 | +1° | 1243 | 6 | 4.2 | +1 | 47.9 | 8.6 | ✓ |
| 48 | +1° | 1252 | 6 | 5.8 | +1 | 48.7 | 8.7 | ✓ |
| 49 | +2° | 1161 | 6 | 6.2 | +2 | 2.6 | 8.9 | ✓ |
| 50 | +0° | 1338 | 6 | 7.0 | +0 | 53.8 | 8.8 | ✓ |
| 51 | +2° | 1175 | 6 | 7.9 | +2 | 10.7 | 9.0 | ✓ |
| 52 | +1° | 1281 | 6 | 9.1 | +1 | 55.7 | 9.1 | ✓ |
| 53 | +3° | 1197 | 6 | 8.9 | +3 | 9.5 | 9.0 | ✓ |
| 54 | +3° | 1204 | 6 | 13.5 | +3 | 11.5 | 8.7 | ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday. Jan. 6. 1913.

I 38205 long drift

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 1 | A | |
| 56 | 2 | $A_0$ | |
| 57 | 4 | $F_0$ | |
| 58 | 2 | $A_0$ | |
| 59 | 2 | $F_0$ | |
| 60 | 2 | $F_0$ | |
| 61 | 5 | $F_0$ | |
| 62 | 1 | A | |
| 63 | 2 | $A_2$ | |
| 64 | 4 | $A_0$ | |
| 65 | 3 | $A_0$ | |
| 66 | 2 | $A_2$ | |
| 67 | 3 | $A_2$ | |
| 68 | 3 | $A_3$ | |
| 69 | 3 | $A_2$ | |
| 70 | 2 | $A_0$ | |
| 71 | 1 | $G_0$ | |
| 72 | 2 | $G_5$ | |
| 73 | 1 | Ma | |
| 74 | 2 | A | |
| 75 | 3 | $K_0$ | |
| 76 | 4 | $K_0$ | |
| 77 | 2 | $G_0$ | |
| 78 | 3 | $A_2$ | |
| 79 | 7 | $A_0$ | |
| 80 | 4 | $A_0$ | Partly superposed on 79. |
| 81 | 3 | $A_5$ | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 55 | +1° | 1308 | 6 | 13.3 +1 | 56.1 | 9.2 ✓ |
| 56 | +2° | 1199 | 6 | 14.1 +2 | 27.8 | 9.0 ✓ |
| 57 | +2° | 1200 | 6 | 14.2 +2 | 24.6 | 7.9 ✓ |
| 58 | +2° | 1203 | 6 | 14.5 +2 | 11.0 | 9.0 ✓ |
| 59 | +2° | 1205 | 6 | 14.8 +2 | 7.3 | 9.0 ✓ |
| 60 | +2° | 1210 | 6 | 15.7 +2 | 49.2 | 9.0 ✓ |
| 61 | +2° | 1213 | 6 | 16.2 +2 | 44.5 | 7.3 ✓ |
| 62 | +1° | 1322 | 6 | 16.4 +1 | 46.1 | 9.0 ✓ |
| 63 | +1° | 1323 | 6 | 16.6 +1 | 19.4 | 9.2 ✓ |
| 64 | +0° | 1400 | 6 | 15.8 +0 | 56.9 | 8.5 ✓ |
| 65 | +0° | 1405 | 6 | 16.6 +0 | 22.9 | 9.0 ✓ |
| 66 | +0° | 1409 | 6 | 17.4 +0 | 13.1 | 9.0 ✓ |
| 67 | +0° | 1410 | 6 | 17.6 +0 | 21.7 | 8.9 ✓ |
| 68 | +0° | 1407 | 6 | 17.2 +0 | 58.2 | 8.8 ✓ |
| 69 | +1° | 1330 | 6 | 17.5 +1 | 1.5 | 9.0 ✓ |
| 70 | +3° | 1229 | 6 | 16.6 +3 | 9.3 | 9.2 ✓ |
| 71 | +2° | 1219 | 16 | 17.1 +2 | 55.6 | 9.0 ✓ |
| 72 | +3° | 1237 | 6 | 17.7 +3 | 4.8 | 8.9 ✓ |
| 73 | +3° | 1233 | 6 | 17.1 +3 | 50.5 | 8.8 ✓ |
| 74 | +3° | 1238 | 6 | 17.7 +3 | 55.1 | 9.0 ✓ |
| 75 | +4° | 1254 | 6 | 19.0 +4 | 54.4 | 8.9 ✓ |
| 76 | +4° | 1253 | 6 | 18.7 +4 | 10.8 | 8.2 ✓ |
| 77 | +3° | 1247 | 6 | 19.0 +3 | 31.2 | 8.8 ✓ |
| 78 | +3° | 1250 | 6 | 19.2 +3 | 14.5 | 8.7 ✓ |
| 79 | +2° | 1139 | 6 | 1.4 +2 | 31.5 | 6.5 ✓ |
| 80 | +2° | 1140 | 6 | 1.4 +2 | 31.9 | 8.0 ✓ |
| 81 | +2° | 1137 | 5 | 59.9 +2 | 8.9 | 8.7 ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday Jan. 6, 1913.
I 38205 long disp.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 82 | 2 | A2 | |
| 83 | 1 | A | |
| 84 | 1 | I | |
| Time 12.17.85 | 1 | G5 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 82 | +1° | 12.17 | 5 | 59.5 +1 | 51.2 | 8.9 J |
| 83 | +1° | 12.14 | 5 | 58.9 +1 | 47.0 | 9.3 J |
| 84 | +1° | 12.18 | 6 | 0.3 +1 | 41.2 | 9.0 J |
| 85 | +1° | 12.27 | 6 | 0.9 +1 | 36.3 | 8.9 V |

Identified by A.M.C. Jan. 21, 1913
Checked by J.C.M. Jan. 27, 1913
cards made out by M.C.W.
Cards checked by E.R.H.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday January 7, 1913

Trine 1.15

B 20894 Short

| No. | Dist. | Class | Remark |
|---|---|---|---|
| 1 | 3 | a3 | |
| 2 | 3 | A0 | |
| 3 | 3 | A0 | |
| 4 | 4 | F2 | |
| 5 | 5 | A0 | |
| 6 | 7 | B9 | |
| 7 | 7 | A5 | |
| 8 | 6 | B9 | |
| 9 | 2 | A2 | |
| 10 | 3 | A3 | |
| 11 | 5 | F0 | |
| 12 | 1 | K5 | |
| 13 | 1 | F5 | |
| 14 | 2 | K2 | |
| 15 | 10+ | A | Burned out |
| 16 | 4 | A0 | |
| 17 | 5 | F2 | |
| 18 | 5 | F0 | |
| 19 | 2 | A0 | |
| 20 | 3 | F5 | |
| 21 | 1 | K | |
| 22 | 5 | F2 | |
| 23 | 6 | B9 | |
| 24 | 2 | A2 | |
| 25 | 7 | B5 | |
| 26 | 3 | G | From Hd to H2 superposed on 25 |
| 27 | 5 | K0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | -3° | 1271 | 5 | 56.0 | -3 | 29.6 | 9.0 ✓ |
| 2 | -3° | 1278 | 5 | 57.0 | -3 | 26.7 | 9.0 ✓ |
| 3 | -3° | 1276 | 5 | 56.8 | -3 | 50.1 | 9.1 ✓ |
| 4 | -4° | 1336 | 5 | 55.5 | -4 | 1.53 | 9.0 ✓ |
| 5 | -4° | 1351 | 5 | 58.3 | -4 | 36.7 | 8.8 ✓ |
| 6 | -4° | 1352 1346 | 5 | 58.4 58.0 | -4 | 46.9 55.6 | 8.8 9.4 ✓ |
| 7 | -5° | 1497 | 5 | 58.8 | -5 | 3.1 | 8.8 ✓ |
| 8 | -4° | 1356 | 5 | 58.9 | -4 | 33.6 | 9.0 ✓ |
| 9 | -4° | 1357 | 5 | 58.9 | -4 | 44.3 | 9.2 ✓ |
| 10 | -4° | 1360 | 5 | 59.1 | -4 | 45.2 | 9.0 ✓ |
| 11 | -4° | 1364 | 5 | 59.8 | -4 | 48.7 | 9.0 ✓ |
| 12 | -4° | 1365 | 6 | 0.0 | -4 | 34.9 | 9.3 ✓ |
| 13 | -4° | 1366 | 6 | 0.1 | -4 | 32.2 | 9.5 ✓ |
| 14 | -4° | 1368 | 6 | 0.2 | -4 | 33.5 | 9.0 ✓ |
| 15 | -4° | 1362 | 5 | 59.5 | -4 | 10.7 | 6.0 ✓ |
| 16 | -3° | 1296 | 5 | 59.5 | -3 | 55.6 | 9.0 ✓ |
| 17 | -3° | 1301 | 6 | 0.2 | -3 | 58.7 | 9.0 ✓ |
| 18 | -4° | 1369 | 6 | 0.4 | -4 | 7.1 | 9.0 ✓ |
| 19 | -4° | 1353 | 5 | 58.4 | -4 | 19.7 | 9.2 ✓ |
| 20 | -5° | 1500 | 5 | 59.0 | -5 | 38.5 | 9.0 ✓ |
| 21 | -5° | 1501 | 5 | 59.3 | -5 | 26.5 | 9.5 ✓ |
| 22 | -5° | 1503 | 6 | 0.2 | -5 | 33.6 | 8.8 ✓ |
| 23 | -5° | 1506 | 6 | 0.3 | -5 | 22.4 | 8.8 ✓ |
| 24 | -5° | 1507 | 6 | 0.5 | -5 | 24.0 | 9.4 ✓ |
| 25 | -5° | 1515 | 6 | 1.3 | -5 | 19.2 | 8.5 ✓ |
| 26 | -5° | 1516 | 6 | 1.4 | -5 | 22.7 | 9.0 ✓ |
| 27 | -5° | 1517 | 6 | 1.6 | -5 | 18.2 | 8.0 ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday January 7, 1913

B 20894 Short.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 28 | 7 | F5 | |
| 29 | 5 | B3 | |
| 30 | 10+ | F0 | |
| 31 | 2 | A2 | |
| 32 | 1 | G | |
| 33 | 4 | B5 | |
| 34 | 1 | A | Hyd. lines indistinct |
| 35 | 2 | F0 | |
| 36 | 2 | A0 | |
| 37 | 4 | K2 | |
| 38 | 2 | F2 | |
| 39 | 5 | A0 | |
| 40 | 4 | F0 | |
| 41 | 5 | B9 | |
| 42 | 3 | A2 | |
| 43 | 4 | A0 | |
| 44 | 3 | F5 | |
| 45 | 3 | A0 | |
| 46 | 10+ | A | |
| 47 | 2 | A0 | |
| 48 | 1 | B5 | |
| 49 | 10+ | B3 | Burned out. |
| 50 | 2 | K0 | |
| 51 | 1 | A | |
| 52 | 2 | F8 | |
| 53 | 10+ | B9 | |
| 54 | 8 | B8 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | -5° | 1520 | 6 | 2.2 | -5 | 19.1 | 8.5 ✓ |
| 29 | -5° | 1521 | 6 | 2.4 | -5 | 2.6 | 8.0 ✓ |
| 30 | -5° | 1523 | 6 | 2.5 | -5 | 40.7 | 6.3 ✓ |
| 31 | -5° | 1514 | 6 | 1.2 | -5 | 43.4 | 9.5 ✓ |
| 32 | -5° | 1513 | 6 | 1.0 | -5 | 52.4 | 9.2 ✓ |
| 33 | -6° | 1431 | 6 | 2.4 | -6 | 18.1 | 9.0 ✓ |
| 34 | -6° | 1433 | 6 | 2.7 | -6 | 16.9 | 9.8 ✓ |
| 35 | -6° | 1435 | 6 | 2.8 | -6 | 23.5 | 9.5 ✓ |
| 36 | -6° | 1436 | 6 | 3.2 | -6 | 18.6 | 9.5 ✓ |
| 37 | -5° | 1533 | 6 | 4.1 | -5 | 42.4 | 8.7 ✓ |
| 38 | -5° | 1531 | 6 | 3.9 | -5 | 26.8 | 9.1 ✓ |
| 39 | -5° | 1535 | 6 | 4.2 | -5 | 9.8 | 9.1 ✓ |
| 40 | -4° | 1391 | 6 | 4.3 | -4 | 57.9 | 9.1 ✓ |
| 41 | -4° | 1383 | 6 | 3.0 | -4 | 40.0 | 8.5 ✓ |
| 42 | -4° | 1379 | 6 | 2.7 | -4 | 31.9 | 9.0 ✓ |
| 43 | -4° | 1380 | 6 | 2.8 | -4 | 18.6 | 9.0 ✓ |
| 44 | -4° | 1381 | 6 | 2.9 | -4 | 11.0 | 9.0 ✓ |
| 45 | -4° | 1376 | 6 | 2.2 +.9 | -4 | 44 8.8 | 9.2 ✓ |
| 46 | -6° | 1439 | 6 | 4.0 | -6 | 43.8 | 6.8 ✓ |
| 47 | -6° | 1443 | 6 | 4.7 | -6 | 46.0 | 9.5 ✓ |
| 48 | -6° | 1446 | 6 | 4.8 | -6 | 31.3 | 5.2 } Prismatic Companion |
| 49 | -6° | 1446 | 6 | 4.8 | -6 | 31.3 | 5.2 } ✓ |
| 50 | -6° | 1450 | 6 | 5.6 | -6 | 42.6 | 9.3 ✓ |
| 51 | -6° | 1451 | 6 | 5.9 | -6 | 50.0 | 9.4 ✓ |
| 52 | -6° | 1455 | 6 | 6.2 | -6 | 44.2 | 9.4 ✓ |
| 53 | -7° | 1332 | 6 | 6.9 | -7 | 12.8 | 6.5 ✓ |
| 54 | -6° | 1461 | 6 | 6.9 | -6 | 46.9 | 8.0 ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday January 7, 1913
B.D. 10894

| no. | Int. | Class | Remarks |
|---|---|---|---|
| 55 | 4 | K0 | |
| 56 | 2 | A0 | |
| 57 | 1 | A | |
| 58 | 6 | A0 | |
| 59 | 6 | B F0 | |
| 60 | 10+ | K | Burned out. |
| 61 | 5 | A2 | |
| 62 | 3 | K0 | |
| 63 | 9 | B8 | |
| 64 | 4 | A0 | |
| 65 | 2 | A0 | |
| 66 | 5 | A | |
| 67 | 2 | A | Nearly all superposed on 66 |
| 68 | 2 | K0 | |
| 69 | 5 | A0 | |
| 70 | 3 | F5 | |
| 71 | 3 | A0 | |
| 72 | 2 | F2 | |
| 73 | 2 | K0 | |
| 74 | 5 | G5 | |
| 75 | 1 | F0 | |
| 76 | 3 | G5 | |
| 77 | 7 | F0 | |
| 78 | 9 | B9 | |
| 79 | 5 | A2 | |
| 80 | 3 | B9 | |
| 81 | 4 | F0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | -6° | 1463 | 6 | 7.4 | -6 | 48.7 | 8.5 ✓ |
| 56 | -6° | 1464 | 6 | 7.4 | -6 | 39.4 | 9.5 ✓ |
| 57 | -6° | 1465 | 6 | 7.4 | -6 | 35.2 | 9.2 ✓ |
| 58 | -6° | 1467 | 6 | 7.6 | -6 | 32.4 | 9.0 ✓ |
| 59 | -6° | 1470 | 6 | 7.9 | -6 | 48.6 | 8.9 ✓ |
| 60 | -6° | 1469 | 6 | 7.8 | -6 | 13.8 | 4.5 ✓ |
| 61 | -6° | 1472 | 6 | 8.2 | -6 | 18.8 | 8.8 ✓ |
| 62 | -6° | 1473 | 6 | 8.3 | -6 | 7.2 | 8.9 ✓ |
| 63 | -6° | 1475 | 6 | 8.7 | -6 | 9.7 | 8.0 ✓ |
| 64 | -5° | 1585 | 6 | 8.1 | -5 | 46.1 | 9.0 ✓ |
| 65 | -5° | 1559 | 6 | 8.4 | -5 | 41.5 | 9.5 ✓ |
| 66 | -5° | 1562 | 6 | 8.5 | -5 | 46.9 | 9.2 ✓ |
| 67 | -5° | 1561 | 6 | 8.5 | -5 | 47.2 | 9.3 ✓ |
| 68 | -5° | 1560 | 6 | 8.4 | -5 | 54.0 | 9.0 ✓ |
| 69 | -5° | 1553 | 6 | 7.9 | -5 | 16.2 | 8.9 ✓ |
| 70 | -4° | 1420 | 6 | 7.2 | -4 | 54.7 | 9.1 ✓ |
| 71 | -4° | 1412 | 6 | 6.6 | -4 | 54.4 | 9.3 ✓ |
| 72 | -5° | 1539 | 6 | 5.4 | -5 | 47.7 | 9.2 ✓ |
| 73 | -6° | 1453 | 6 | 6.1 | -6 | 19.6 | 9.0 ✓ |
| 74 | -6° | 1456 | 6 | 6.2 | -6 | 22.0 | 8.4 ✓ |
| 75 | -6° | 1459 | 6 | 6.3 | -6 | 3.7 | 9.5 ✓ |
| 76 | -6° | 1460 | 6 | 6.6 | -6 | 9.1 | 9.0 ✓ |
| 77 | -7° | 1338 | 6 | 7.7 | -7 | 23.8 | 8.7 ✓ |
| 78 | -7° | 1341 | 6 | 8.0 | -7 | 39.7 | 8.2 ✓ |
| 79 | -7° | 1342 | 6 | 8.2 | -7 | 56.7 | 8.8 ✓ |
| 80 | -7° | 1335 | 6 | 7.3 | -7 | 55.8 | 9.2 ✓ |
| 81 | -7° | 1330 | 6 | 6.8 | -7 | 42.6 | 9.1 ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday January 7, 1913

{ B 20894 Short.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 82 | 3 | Fs | |
| 83 | 3 | Ao | |
| 84 | 4 | Ko | |
| 85 | 10 | B8 | |
| 86 | 2 | Go | |
| 87 | 4 | Ko | |
| 88 | 2 | A2 | |
| 89 | 1 | A | |
| 90 | 8 | Fs | |
| 91 | 10 | B8 | |
| 92 | 10+ | A | |
| 93 | 3 | Ao | |
| 94 | 2 | Mb | |
| 95 | 3 | Ao | |
| 96 | 2 | A2 | |
| 97 | 2 | A2 | |
| 98 | 5 | A2 | |
| 99 | 4 | Ao | |
| 100 | 3 | F1 | |
| 101 | 2 | F8 | |
| 102 | 5 | Fs | |
| 103 | 3 | Fo | |
| 104 | 4 | Ko | |
| 105 | 3 | A5 | |
| 106 | 2 | Go | |
| 107 | 4 | K2 | |
| 108 | 3 | Ko | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | -7° | 1328 | 6 | 6.4 | -7 | 40.3 | 9.0 ✓ |
| 83 | -7° | 1329 | 6 | 6.5 | -7 | 28.8 | ~~8.5~~ 9.1 ✓ |
| 84 | -7° | 1327 | 6 | 6.1 | -7 | 25.0 | 8.5 ✓ |
| 85 | -7° | 1313 | 6 | 4.0 | -7 | 15.6 | 7.0 ✓ |
| 86 | -7° | 1308 | 6 | 3.6 | -7 | 8.0 | 8.5 ✓ |
| 87 | -7° | 1305 | 6 | 3.2 | -7 | 4.9 | 8.5 ✓ |
| 88 | -7° | 1302 | 6 | 2.8 | -7 | 10.7 | 9.3 ✓ |
| 89 | -7° | 1303 | 6 | 2.9 | -7 | 23.6 | 9.5 ✓ |
| 90 | -8° | 1364 | 6 | 8.1 | -8 | 35.1 | 7.8 ✓ |
| 91 | -8° | 1361 | 6 | 8.0 | -8 | 45.7 | 7.5 ✓ |
| 92 | -8° | 1368 | 6 | 8.5 | -8 | 59.4 | 6.3 ✓ |
| 93 | -9° | 1389 | 6 | 9.2 | -9 | 5.5 | 9.1 ✓ |
| 94 | -8° | 1371 | 6 | 9.2 | -8 | 47.2 | 9.1 ✓ |
| 95 | -8° | 1370 | 6 | 8.8 | -8 | 22.6 | 9.4 ✓ |
| 96 | -8° | 1373 | 6 | 9.8 | -8 | 26.7 | 9.5 ✓ |
| 97 | -7° | 1346 | 6 | 8.8 | -7 | 49.9 | 9.4 ✓ |
| 98 | -7° | 1348 | 6 | 9.0 | -7 | 42.6 | 8.9 ✓ |
| 99 | -7° | 1349 | 6 | 9.5 | -7 | 16.9 | 8.6 ✓ |
| 100 | -7° | 1345 | 6 | 8.5 | -7 | 13.8 | 8.8 ✓ |
| 101 | -7° | 1347 | 6 | 9.0 | -7 | 0.0 | 9.1 ✓ |
| 102 | -7° | 1352 | 6 | 10.1 | -7 | 46.9 | 8.5 ✓ |
| 103 | -7° | 1355 | 6 | 10.5 | -7 | 52.4 | 9.3 ✓ |
| 104 | -7° | 1358 | 6 | 10.7 | -7 | 50.8 | 8.7 ✓ |
| 105 | -8° | 1379 | 6 | 10.8 | -8 | 9.1 | 9.3 ✓ |
| 106 | -8° | 1381 | 6 | 11.0 | -8 | 10.1 | 9.5 ✓ |
| 107 | -7° | 1365 | 6 | 11.6 | -7 | 46.9 | 8.8 ✓ |
| 108 | -7° | 1361 | 6 | 11.7 | -7 | 53.2 | 9.0 ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday January 7, 1913

B 21894 Hnt.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 109 | 4 | A0 | |
| 110 | 2 | G0 | |
| 111 | 3 | F0 | |
| 112 | 3 | F5 | |
| 113 | 4 | K0 | |
| 114 | 3 | A2 | |
| 115 | 2 | G5 | |
| 116 | 5 | A0 | |
| June 1.35 | 117 | 3 | K0 |
| June 8. 1913 June 11.38 | 118 | 9 | B9 |
| 119 | 2 | F0 | |
| 120 | 4 | G5 | |
| 121 | 10+ | A5 | |
| 122 | 10+ | A | Furnace out. |
| 123 | 2 | A3 | |
| 124 | 4 | F8 | |
| 125 | 7 | A2 | |
| 126 | 10+ | A | Furnace out |
| 127 | 3 | A0 | |
| 128 | 4 | F2 | |
| 129 | 10+ | F | Furnace out. |
| 130 | 2 | A2 | |
| 131 | 1 | A | |
| 132 | 1 | F | |
| 133 | 3 | A0 | |
| 134 | 6 | A3 | |



| | | | | | |
|---|---|---|---|---|---|
| 109 | -7° | 1359 | 6 | 10.9 | -7 | 30.9 | 9.0 | ✓ |
| 110 | -7° | 1358 | 6 | 10.4 | -7 | 24.5 | 8.6 | ✓ |
| 111 | -7° | 1354 | 6 | 10.4 | -7 | 0.7 | 9.2 | ✓ |
| 112 | -7° | 1361 | 6 | 11.0 | -7 | 11.2 | 9.1 | ✓ |
| 113 | -7° | 1363 | 6 | 11.3 | -7 | 8.1 | 8.5 | ✓ |
| 114 | -6° | 1486 | 6 | 10.8 | -6 | 37.7 | 9.1 | ✓ |
| 115 | -6° | 1488 | 6 | 11.1 | -6 | 46.2 | 9.0 | ✓ |
| 116 | -6° | 1491 | 6 | 12.4 | -6 | 24.1 | 9.0 | ✓ |
| 117 | -6° | 1495 | 6 | 12.7 | -6 | 45.2 | 8.8 | ✓ |
| 118 | -7° | 1375 | 6 | 12.9 | -7 | 11.3 | 8.3 | ✓ |
| 119 | -7° | 1371 | 6 | 12.7 | -7 | 38.6 | 8.9 | ✓ |
| 120 | -7° | 1376 | 6 | 13.0 | -7 | 42.5 | 9.0 | ✓ |
| 121 | -7° | 1378 | 6 | 13.1 | -7 | 48.3 | 7.5 | ✓ |
| 122 | -7° | 1373 | 6 | 12.7 | -7 | 45.5 | 5.5 | ✓ |
| 123 | -7° | 1368 | 6 | 11.9 | -7 | 3.9 | 9.5 | ✓ |
| 124 | -8° | 1391 | 6 | 12.9 | -8 | 0.1 | 9.0 | ✓ |
| 125 | -8° | 1390 | 6 | 12.8 | -8 | 13.3 | 8.3 | ✓ |
| 126 | -8° | 1386 | 6 | 12.2 | -8 | 32.2 | 6.8 | ✓ |
| 127 | -8° | 1387 | 6 | 12.3 | -8 | 35.7 | 9.0 | — |
| 128 | -8° | 1385 | 6 | 11.8 | -8 | 50.7 | 8.7 | ✓ |
| 129 | -9° | 1411 | 6 | 11.9 | -9 | 20.2 | 5.8 | ✓ |
| 130 | -9° | 1403 | 6 | 10.5 | -9 | 15.5 | 9.3 | ✓ |
| 131 | -8° | 1375 | 6 | 10.1 | -8 | 58.6 | 9.8 | ✓ |
| 132 | -8° | 1378 | 6 | 10.6 | -8 | 58.2 | 9.5 | ✓ |
| 133 | -9° | 1412 | 6 | 12.3 | -9 | 18.6 | 9.3 | ✓ |
| 134 | -9° | 1416 | 6 | 12.6 | -9 | 14.1 | 8.7 | ✓ |

Carols made out

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Wednesday, Jan. 8. 1913.

B20894 short disp.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 135 | 6 | Ao | |
| 136 | 2 | ½o | |
| 137 | 2 | ½o | |
| 138 | 2 | A2 | |
| 139 | 7 | ½o | |
| 140 | 1 | A | |
| 141 | 4 | ½o | |
| 142 | 10 | Ao | |
| 143 | 6 | Ao | |
| 144 | 2 | ½o | |
| 145 | 3 | Ao | |
| 146 | 1 | ½o | |
| 147 | 1 | ½5 | |
| 148 | 9 | Ao | |
| 149 | 8 | Ma | |
| 150 | 4 | A2 | |
| 151 | 6 | Ao | |
| 152 | 4 | Ao | |
| 153 | 4 | ½o | |
| 154 | 2 | ½o | |
| 155 | 3 | A2 | |
| 156 | 3 | Ao | |
| 157 | 2 | ½o | |
| 158 | 1 | ½5 | |
| 159 | 2 | ½5 | |
| 160 | 9 | ½4 | |
| 161 | 2 | ½5 | |



| | | | | | |
|---|---|---|---|---|---|
| 135 | -9° | 1419 | 6 | 12.7 | -9 | 20.0 | 8.5 | J |
| 136 | -9° | 1420 | 6 | 13.1 | -9 | 31.0 | 9.1 | √ |
| 137 | -9° | 1417 | 6 | 12.6 | -9 | 44.0 | 9.0 | ✓ |
| 138 | -9° | 1415 | 6 | 12.5 | -9 | 27.0 | 9.6 | J |
| 139 | -8° | 1392 | 6 | 13.2 | -8 | 46.6 | 8.2 | √ |
| 140 | -9° | 1422 | 6 | 13.7 | -9 | 13.0 | 9.4 | √ |
| 141 | -9° | 1429 | 6 | 14.2 | -9 | 3.1 | 9.1 | √ |
| 142 | -9° | 1431 | 6 | 14.8 | -9 | 36.9 | 7.5 | √ |
| 143 | -9° | 1434 | 6 | 15.1 | -9 | 28.6 | 8.2 | √ |
| 144 | -8° | 1405 | 6 | 15.2 | -8 | 59.2 | 9.0 | J |
| 145 | -8° | 1406 | 6 | 15.6 | -8 | 42.5 | 9.4 | √ |
| 146 | -8° | 1407 | 6 | 15.7 | -8 | 34.9 | 9.5 | √ |
| 147 | -8° | 1402 | 6 | 14.8 | -8 | 57.9 | 9.1 | √ |
| 148 | -8° | 1404 | 6 | 15.0 | -8 | 9.9 | 8.0 | √ |
| 149 | -8° | 1401 | 6 | 14.7 | -8 | 10.1 | 7.3 | J |
| 150 | -8° | 1396 | 6 | 14.0 | -8 | 5.1 | 8.9 | J |
| 151 | -7° | 1399 | 6 | 15.6 | -7 | 33.9 | 8.5 | √ |
| 152 | -7° | 1401 | 6 | 16.0 | -7 | 52.4 | 8.8 | √ |
| 153 | -7° | 1403 | 6 | 16.5 | -7 | 47.5 | 8.7 | √ |
| 154 | -8° | 1412 | 6 | 16.1 | -8 | 15.5 | 9.2 | √ |
| 155 | -8° | 1415 | 6 | 17.0 | -8 | 8.5 | 9.0 | √ |
| 156 | -8° | 1421 | 6 | 17.6 | -8 | 3.4 | 9.2 | √ |
| 157 | -7° | 1394 | 6 | 15.2 | -7 | 15.6 | 9.2 | √ |
| 158 | -7° | 1398 | 6 | 15.6 | -7 | 9.4 | 9.0 | √ |
| 159 | -6° | 1511 | 6 | 14.3 | -6 | 43.3 | 9.0 | √ |
| 160 | -6° | 1507 | 6 | 13.9 | -6 | 37.7 | 8.2 | J |
| 161 | -6° | 1506 | 6 | 13.7 | -6 | 31.9 | 9.4 | √ |

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Wednesday Jan. 8 1913.

B 20894 chart disps.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 162 | 1 | A | |
| 163 | 1 | -g | |
| 164 | 3 | $g_5$ | |
| 165 | 6 | $A_3$ | |
| 166 | 7 | $A_0$ | |
| 167 | 6 | $A_5$ | |
| 168 | 1 | h? | Maybe defect. Defect. Omit. |
| 169 | 7 | $A_0$ | |
| 170 | 6 | $A_0$ | |
| 171 | 7 | $g_0$ | |
| 172 | 5 | A | Partly superposed on 173. |
| 173 | 5 | $A_2$ | |
| 174 | 7 | $A_0$ | |
| 175 | 5 | $A_0$ | |
| 176 | 4 | $g_5$ | |
| 177 | 4 | $g_0$ | |
| 178 | 5 | $g_5$ | |
| 179 | 3 | $g_0$ | |
| 180 | 2 | $A_5$ | |
| 181 | 3 | $g_4$ | |
| 182 | 3 | $g_4$ | |
| 183 | 8 | $A_2$ | |
| 184 | 6 | $A_2$ | Nearly all superposed on 183. |
| 185 | 5 | $g_0$ | |
| 186 | 2 | A | |
| 187 | 2 | $A_0$ | |
| 188 | 2 | $g_0$ | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 162 | -6° | 1499 | 6 | 13.2 | -6 | 45.0 | 9.4 ✓ |
| 163 | -6° | 1498 | 6 | 13.0 | -6 | 33.3 | 9.3 ✓ |
| 164 | -6° | 1504 | 6 | 13.6 | -6 | 15.6 | 9.0 ✓ |
| 166 | -5° | 1599 | 6 | 14.6 | -5 | 53.1 | 9.0 ✓ |
| 166 | -5° | 1601 | 6 | 14.2 | -5 | 59.0 | 9.1 ✓ |
| 167 | -6° | 1508 | 6 | 14.0 | -6 | 1.1 | 9.0 ✓ |
| 168 | Approx. -5° | Approx. 1855 1597 | 4 6 | 13.8 13.8 | -5 -5 | 58.6 56.4 | Just on B 20743 9.0 ≠ Not on Bache plt. |
| 169 | -5° | 1604 | 6 | 14.7 | -5 | 38.4 | 8.6 ✓ |
| 170 | -5° | 1602 | 6 | 14.6 | -5 | 14.4 | 8.5 ✓ |
| 171 | -5° | 1606 | 6 | 14.9 | -5 | 23.0 | 8.2 ✓ |
| 172 | -5° | 1607 | 6 | 15.1 | -5 | 6.4 | 8.5 ✓ |
| 173 | -5° | 1608 | 6 | 15.1 | -5 | 12.6 | 8.7 ✓ |
| 174 | -5° | 1612 | 6 | 15.7 | -5 | 21.1 | 8.5 ✓ |
| 175 | -5° | 1616 | 6 | 16.0 | -5 | 23.3 | 9.0 ✓ |
| 176 | -5° | 1614 | 6 | 15.8 | -5 | 38.0 | 9.0 ✓ |
| 177 | -6° | 1517 | 6 | 14.9 | -6 | 22.7 | 9.0 ✓ |
| 178 | -6° | 1526 | 6 | 15.9 | -6 | 28.0 | 8.4 ✓ |
| 179 | -6° | 1527 | 6 | 16.2 | -6 | 20.9 | 9.0 ✓ |
| 180 | -5° | 1563 4 | 6 | 9.8 | -5 | 50.1 46.7 | 5 ∧ J -5° 1563 magn 9.4 superposed 9.4 |
| 181 | -5° | 1566 | 6 | 10.2 | -5 | 36.3 | 9.4 ✓ |
| 182 | -5° | 1568 | 6 | 10.4 | -5 | 52.1 | 9.5 ✓ |
| 183 | -5° | 1565 | 6 | 10.1 | -5 | 18.2 | 8.0 ✓ |
| 184 | Trail of 183. Omit. ✓ | | | | | | |
| 185 | -5° | 1567 | 6 | 10.4 | -5 | 15.7 | 8.7 ✓ |
| 186 | -6° | 1570 | 6 | 10.5 | -5 | 13.0 | 9.4 ✓ |
| 187 | -5° | 1571 | 6 | 10.7 | -5 | 26.4 | 9.3 ✓ |
| 188 | -5° | 1586 | 6 | 12.5 | -5 | 40.7 | 9.1 ✓ |

Cards made out

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Wednesday Jan. 8, 1913
B20894 short drifts.

| | No. | Int | Class | Remark |
|---|---|---|---|---|
| | 189 | 4 | A5 | |
| | 190 | 3 | A0 | |
| | 191 | 2 | F5 | |
| | 192 | 1 | F8 | |
| | 193 | 4 | A2 | |
| | 194 | 2 | Ma | |
| | 195 | 2 | K2 | |
| | 196 | 4 | A0 | |
| | 197 | 16 | A2 | |
| | 198 | 8 | A0 | |
| | 199 | 7 | A0 | |
| | 200 | 4 | A2 | |
| | 201 | 6 | A0 | |
| 11.45 | 202 | 5 | A2 | |
| 11.55 | 203 | 3 | A2 | |
| | 204 | 3 | F2 | |
| | 205 | 2 | F5 | |
| | 206 | 4 | A0 | |
| | 207 | 2 | A5 | |
| | 208 | 2 | A2 | |
| | 209 | 3 | A0 | |
| | 210 | 4 | F0 | |
| | 211 | 2 | F0 | |
| | 212 | 7 | A5 | |
| | 213 | 4 | F5 | |
| | 214 | 7 | A0 | |
| | 215 | 3 | K0 | E. |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 189 | -5° | 1591 | 6 | 13.0 | -5 | 30.1 | 9.0 |
| 190 | -5° | 1593 | 6 | 13.1 | -5 | 31.9 | 9.3 |
| 191 | -6° | 1483 | 6 | 10.0 | -6 | 43.8 | 9.1 |
| 192 | -6° | 1481 | 6 | 9.8 | -6 | 52.9 | 9.3 |
| 193 | -5° | 1584 | 6 | 12.2 | -5 | 9.1 | 9.1 |
| 194 | -5° | 1588 | 6 | 12.6 | -5 | 14.0 | 9.0 |
| 195 | ~~-4°~~ -5° | ~~1470~~ 1590 | 6 | ~~12.8~~ 13.8 | ~~-4~~ -5 | 5.5 ~~16.9~~ | 9.0 |
| 196 | -5° | 1595 | 6 | 13.3 | -5 | 9.3 | 9.3 |
| 197 | -4° | 1467 | 6 | ~~14.6~~ 13.7 | -4 | 31.5 | 7.3 |
| 198 | -4° | 1470 | 6 | 14.0 | -4 | 16.9 | 8.0 |
| 199 | -4° | 1476 | 6 | 15.0 | -4 | 41.5 | 8.0 |
| 200 | -4° | 1479 | 6 | 15.4 | -4 | 47.3 | 8.6 |
| 201 | -4° | 1480 | 6 | 15.7 | -4 | 53.7 | 8.7 |
| 202 | -5° | 1609 | 6 | 15.4 | -5 | 1.4 | 8.3 |
| 203 | -4° | 1402 | 6 | 5.6 | -4 | 1.7 | 9.0 |
| 204 | -4° | 1403 | 6 | 5.7 | -4 | 12.0 | 9.0 |
| 205 | -4° | 1401 | 6 | 5.6 | -4 | 14.6 | 9.2 |
| 206 | -4° | 1415 | 6 | 6.8 | -4 | 13.6 | 9.1 |
| 207 | -3° | 1351 | 6 | 7.4 | -3 | 51.2 | 9.5 |
| 208 | -3° | 1353 | 6 | 7.5 | -3 | 55.4 | 9.5 |
| 209 | -3° | 1359 | 6 | 8.7 | -3 | 44.9 | 9.3 |
| 210 | -3° | 1361 | 6 | 8.8 | -3 | 55.3 | 8.7 |
| 211 | -3° | 1363 | 6 | 9.0 | -3 | 57.2 | 9.0 |
| 212 | -3° | 1362 | 6 | 9.0 | -3 | 20.1 | 8.7 |
| 213 | -3° | 1368 | 6 | 9.5 | -3 | 18.4 | 8.7 |
| 214 | -3° | 1370 | 6 | 9.5 | -3 | 10.0 | 8.7 |
| 215 | -3° | 1373 | 6 | 10.2 | -3 | 0.1 | 9.1 |

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Wednesday Jan 8, 1913

B20894 Slist disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 216 | 4 | $g_0$ | C. |
| 217 | 7 | A | E. |
| 218 | 5 | $g_5$ | E. |
| 219 | 8 | $g_0$ | E. |
| 220 | 7 | $g_0$ | |
| 221 | 4 | $F_5$ | |
| 222 | 3 | $A_2$ | |
| 223 | 4 | $A_0$ | |
| 224 | 1 | K | |
| 225 | 4 | $A_0$ | |
| 226 | 3 | g | Another star superposed on fol. side. |
| 227 | 10+ | | Completely burned out. |
| 228 | 7 | $F_0$ | |
| 229 | 2 | $A_2$ | |
| 230 | 10+ | A | Burned out |
| 231 | 10+ | | Completely burned out. |
| 232 | 2 | $g_0$ | |
| 233 | 3 | $A_0$ | |
| 234 | 2 | $A_0$ | |
| 235 | 1 | g | |
| 236 | 2 | $g_5$ | |
| 237 | 2 | $g_5$ | |
| 238 | 3 | $g_0$ | |
| 239 | 3 | $A_0$ | |
| 240 | 4 | $F_8$ | |
| 241 | 2 | $F_2$ | |
| 242 | 10+ | | Completely burned out. |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | -3° | 1374 | 6 | 10.3 | -3 | 3.8 | 9.1 ✓ |
| 217 | -2° | 1553 | 6 | 11.2 | -2 | 55.3 | 8.7 ✓ |
| 218 | -2° | 1556 | 6 | 11.5 | -2 | 57.3 | 8.7 ✓ |
| 219 | -3° | 1385 | 6 | 11.8 | -3 | 10.6 | 9.2 ✓ |
| 220 | -3° | 1386 | 6 | 11.9 | -3 | 22.9 | 8.5 ✓ |
| 221 | -3° | 1384 | 6 | 11.5 | -3 | 40.1 | 8.6 ✓ |
| 222 | -4° | 1451 | 6 | 11.9 | -4 | 7.0 | 9.0 ✓ |
| 223 | -4° | 1457 | 6 | 12.6 | -4 | 27.2 | 8.8 ✓ |
| 224 | -4° | 1461 | 6 | 13.3 | -4 | 11.7 | 9.0 ✓ |
| 225 | -3° | 1396 | 6 | 13.8 | -3 | 56.5 | 9.0 ✓ |
| 226 | -3° | 1395 | 6 | 13.8 | -3 | 42.0 | 9.1 ✓ |
| 227 | -11° | 1460 | 6 | 14.6 | -11 | 42.3 | 5.9 ✓ |
| 228 | -10° | 1455 | 6 | 10.8 | -10 | 40.0 | 7.0 ✓ |
| 229 | -10° | 1452 | 6 | 10.5 | -10 | 40.0 | 9.0 ✓ |
| 230 | -11° | 1386 | 6 | 0.1 | -11 | 9.3 | 7.0 ✓ |
| 231 | -10° | 1349 | 5 | 55.0 | -10 | 35.9 | 5.6 ✓ |
| 232 | -9° | 1319 | 5 | 57.5 | -9 | 31.5 | 9.0 ✓ |
| 233 | -9° | 1317 | 5 | 57.2 | -9 | 36.4 | 9.1 ✓ |
| 234 | -9° | 1312 | 5 | 56.2 | -9 | 14.8 | 9.0 ✓ |
| 235 | -9° | 1307 | 5 | 55.8 | -9 | 36.9 | 9.0 ✓ |
| 236 | -9° | 1308 | 5 | 55.8 | -9 | 41.5 36.9 | 9.2 ✓ |
| 237 | -9° | 1303 | 5 | 55.4 | -9 | 11.3 | 9.0 ✓ |
| 238 | -8° | 1290 | 5 | 55.4 | -8 | 35.1 | 9.0 ✓ |
| 239 | -8° | 1288 | 5 | 55.2 | -8 | 38.7 | 9.3 ✓ |
| 240 | -8° | 1280 | 5 | 53.7 | -8 | 28.5 | 9.3 ✓ |
| 241 | -8° | 1281 | 5 | 53.8 | -8 | 57.1 | 9.2 ✓ |
| 242 | -6° | 1391 | 5 | 51.2 | -6 | 48.3 | 6.0 ✓ |

Cards made out

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Wednesday. Jan. 8. 1913

B2089 plus 8 exps.

| No. | Int | Class | Remark |
|---|---|---|---|
| Time 12.07 243 | 10+ | B9 | |
| 244 | | | |
| 245 | 10 | B9 | |
| ✓ 246 | 5 | K0 | |
| 247 | 4 | K5 | Partly superp. on stars of north |

cmch 133, 30



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 243 | -7° | 1257 | 5 | 55.2 | -7 | 17.6 | 7.0 | ✓ |

Identified by AMC. Jan. 14, 1913
Checked by J.C.M. Jan. 24, 1913
cards made out by M. C. W.
Cards checked by E.R.B.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 246 | -8° | 1346 | 6 | 6.0 | -8 | 42 | 6.7 | ✓ |
| 246 | -7° | 1407 | 6 | 6.1 | -4 | 58 | 7.7 | ✓ |

Idents on cards by AMC. Jan. 15, 1915
Checked by A. J. C. Jan. 15, 1915

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | -4° | 1512 | 6 | 19.8 | -4 | 22 | 8.0 | Partly superp. on -4° 1514 |

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Wednesday. Jan 8. 1913.
B 1268 Short (cont. fr. B 56. 170)

| No | Int. | Class | Remark |
|---|---|---|---|
| 109 | 1 | F8 | |
| 110 | 6 | B5 | |
| 111 | 3 | A2 | |
| 112 | 2 | A | |
| 113 | 1 | F | |
| 114 | 5 | A2 | |
| 115 | 2 | A | |
| 116 | 3 | A5 | E. |
| 117 | 2 | A | E. |
| 118 | 2 | Ko | E. |
| 119 | 2 | A | Partly superposed on 120. |
| 120 | 4 | K2 | |
| 12.35 121 | 3 | A0 | |
| 122 | 7 | A | |

cont. 133, 28



| | | | | | | |
|---|---|---|---|---|---|---|
| 109 | −0° | 1254 | 6 | 11.9 | −0 | 14.3 | 8.8 | J |
| 110 | −0° | 1247 | 6 | 10.7 | −0 | 19.6 | 8.5 | J |
| 111 | +0° | 1360 | 6 | 9.6 | +0 | 16.5 | 9.0 | J |
| 112 | −1° | 1176 | 6 | 9.4 | −1 | 9.0 | 9.4 | J |
| 113 | −0° | 1219 | 6 | 6.2 | −0 | 34.0 | 9.0 | J |
| 114 | +0° | 1338 | 6 | 7.0 | +0 | 53.8 | 8.8 | V |
| 115 | +0° | 1340 | 6 | 7.1 | +0 | 45.1 | 9.2 | J |
| 116 | +1° | 1282 | 6 | 9.2 | +1 | 23.5 | 9.1 | J |
| 117 | +1° | 1288 | 6 | 9.9 | +1 | 22.9 | 9.2 | J |
| 118 | +1° | 1286 | 6 | 9.7 | +1 | 2.8 | 9.0 | J |
| 119 | +0° | 1389 | 6 | 13.3 | +0 | 54.6 | 9.1 | V |
| 120 | +0° | 1390 | 6 | 13.4 | +0 | 48.0 | 8.5 | J |
| 121 | +0° | 1400 | 6 | 15.8 | +0 | 56.9 | 8.5 | V |
| 122 | +2° | 1132 | 5 | 59.4 | +2 | 11.5 | 8.0 | J |

Identified by AMG. Jan. 14, 1913
Checked by J.C.M. Jan. 27, 1913
cards made out by M. C. W.
Cards checked by S.R.B.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, Jan. 13, 1913.

Time: 10.15

B 205-34 about (cont from Vol 57, p. 16)

| No. | Int. | Class | Remark |
|---|---|---|---|
| 177 | 2 | $K_0$ | |
| 178 | 2 | $F_5$ | |
| 179 | 3 | $K_5$ | |
| 180 | 3 | $K_5$ | |
| 181 | 1 | $M$ | |
| 182 | 2 | $M_0$ | |
| 183 | 1 | $A_3$ | |
| 184 | 1 | $M$ | |
| 185 | 4 | $M_0$ | |
| 186 | 1 | $F_2$ | |
| 187 | 6 | $A_0$ | |
| 188 | 1 | $K_5$ | |
| 189 | 4 | $F_8$ | |
| 190 | 3 | $A_0$ | |
| 191 | 2 | $A_2$ | |
| 192 | 1 | $M_0$ | |
| 193 | 5 | $F_5$ | |
| 194 | 7 | $F_9$ | |
| 195 | 1 | $F_5$ | |
| 196 | 1 | $M_0$ | |
| 197 | 4 | $K_5$ | |
| 198 | 4 | $F_8$ | |
| 199 | 7 | $F_8$ | |
| 200 | 1 | $A_2$ | |
| 201 | 2 | $F_2$ | |
| 202 | 1 | $K_5$ | |
| 203 | 3 | $A_0$ | Pretty superposed on 204 |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 177 | −37° | 3337 | 7 | 44 | −37 | 58.1 | 8.9 |
| 178 | −37° | 3387 | 7 | 45 | −37 | 38.7 | 9.2 |
| 179 | −38° | 3213 | 7 | 5.5 | −38 | 4.6 | 8.9 |
| 180 | −38° | 3212 | 7 | 5.5 | −38 | 12.6 | 9.1 |
| 181 | −38° | 3202 | 7 | 4.4 | −38 | 26.6 | 8.7 |
| 182 | −38° | 3198 | 7 | 4.0 | −38 | 32.6 | 9.2 |
| 183 | −38° | 3197 | 7 | 4.0 | −38 | 25.0 | 9.9 |
| 184 | −39° | 3108 | 7 | 4.4 | −39 | 0.6 | 9.3 |
| 185 | −39° | 3098 | 7 | 3.9 | −39 | 5.0 | 9.0 |
| 186 | −38° | 3200 | 7 | 4.1 | −38 | 45.2 | 9.7 |
| 187 | −39° | 3074 | 7 | 2.3 | −39 | 7.0 | 8.5 |
| 188 | −39° | 3064 | 7 | 1.4 | −39 | 2.3 | 9.1 |
| 189 | −38° | 3153 | 7 | 1.2 | −38 | 57.8 | 9.0 |
| 190 | −39° | 3062 | 7 | 1.2 | −39 | 4.6 | 9.1 |
| 191 | −39° | 3057 | 7 | 0.8 | −39 | 12.2 | 9.0 |
| 192 | −39° | 3080 | 6 | 58.0 | −39 | 21.6 | 9.3 |
| 193 | −39° | 3014 | 6 | 56.7 | −39 | 17.7 | 8.5 |
| 194 | −39° | 3002 | 6 | 56.0 | −39 | 38.3 | 7.7 |
| 195 | −39° | 3005 | 6 | 56.1 | −39 | 18.1 | 9.0 |
| 196 | −39° | 2999 | 6 | 55.7 | −39 | 21.7 | 9.2 |
| 197 | −39° | 2992 | 6 | 55.2 | −39 | 25.9 | 8.3 |
| 198 | −38° | 3079 | 6 | 55.6 | −38 | 39.4 | 9.1 |
| 199 | −38° | 3070 | 6 | 55.0 | −38 | 39.6 | 8.5 |
| 200 | −38° | 3063 | 6 | 54.7 | −38 | 28.5 | 9.7 |
| 201 | −38° | 3048 | 6 | 53.5 | −38 | 35.5 | 9.5 |
| 202 | −38° | 3052 | 6 | 53.9 | −38 | 50.0 | 9.0 |
| 203 | −38° | 3050 | 6 | 53.6 | −38 | 55.5 | 9.5 |

cards marked out

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Monday Jan. 13, 1913

13205 3h short drop.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 204 | 4 | A3 | |
| 205 | 2 | A0 | |
| 205a | 4 | [illegible] | |
| 206 | 4 | A3 | |
| 207 | 5 | A0 | |
| 208 | 5 | A0 | |
| 209 | 1 | M5 | |
| 210 | 2 | A0 | |
| 211 | 1 | M2 | |
| 212 | 3 | A2 | |
| 213 | 3 | A2 | Vanity superposed on 214 |
| 214 | 2 | A0 | " " " 213. |
| 215 | 3 | A3 | |
| 216 | 3 | A0 | |
| 217 | 5 | A2 | |
| 218 | 3 | A5 | |
| 219 | 2 | A0 | |
| 220 | 6 | A2 | |
| 221 | 2 | K5 | −39° 2943 Magn. 9.5 Superposed |
| 222 | 1 | M8 | |
| 223 | 1 | M5 | |
| 224 | 5 | A2 | |
| 225 | 6 | A0 | |
| 226 | 6 | A3 | |
| 227 | 3 | A5 | |
| 228 | 3 | K5 | |
| 229 | 2 | M0 | |
| 230 | 2 | A2 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 204 − 39° | 2972 | 6 | 58.6 − 39 | 0.9 | 9.2 | 1 ✓ |
| 205 − 39° | 2977 | 6 | 58.6 − 39 | 12.1 | 9.5 | 1 ✓ |
| 205a − 38° | 3034 | 6 | 52.5 − 38 | 49.0 | 8.9 | 1 ✓ |
| 206 − 39° | 2970 | 6 | 53.5 − 39 | 29.8 | 8.9 | 1 ✓ |
| 207 − 39 | 2962 | 6 | 53.0 − 39 | 39.8 | 9.1 | 1 ✓ −39° 2961 6 52.9−39 38.9 magn. 9.9 superposed |
| 208 − 39° | 2986 | 6 | 54.7 − 39 | 49.3 | 9.0 | 1 ✓ |
| 209 − 39° | 2977 | 6 | 54.2 − 39 | 48.3 | 8.7 | 1 ✓ |
| 210 − 40° | 2827 | 6 | 55.4 − 40 | 13.8 | 9.5 | 1 ✓ |
| 211 − 40° | 2821 | 6 | 55.0 − 40 | 16.8 | 8.9 | 1 ✓ |
| 212 − 40° | 2815 2784 | 6 | 54.4 − 40 | 15.8 | 8.8 | 1 ✓ |
| 213 − 40° | 2809 | 6 | 53.8 − 40 | 12.3 | 8.9 | 1 ✓ |
| 214 − 40° | 2807 | 6 | 53.7 − 40 | 14.3 | 9.1 | 1 ✓ |
| 215 − 39° | 2965 | 6 | 53.2 − 39 | 57.0 | 8.8 | 1 ✓ |
| 216 − 39° | 2958 | 6 | 53.5 − 39 | 57.3 | 9.0 | 1 ✓ |
| 217 − 39° 40° | 2787 | 6 | 51.5 − 39 | 2.4 | 8.3 | 1 ✓ |
| 218 − 39° | 2959 | 6 | 53.6 − 39 | 17.7 | 8.9 | 1 ✓ |
| 219 − 39° | 2949 | 6 | 53.7 − 39 | 28.6 | 9.4 | 1 ✓ |
| 220 − 39° | 2946 | 6 | 53.5 − 39 | 19.2 | 8.5 | 1 ✓ |
| 221 − 39° | 2944 | 6 | 51.2 − 39 | 13.7 | 9.5 | 1 ✓ It is not the following spectra which precedes superposed Slow lines Eastman chart Plate B 2886 |
| 222 − 38° | 3013 3011 | 6 | 50.3 − 38 | 41.1 | 9.6 | 1 ✓ |
| 223 − 39° | 2926 | 6 | 50.4 − 39 | 5.7 | 9.5 | 1 ✓ |
| 224 − 39° | 2925 | 6 | 50.1 − 39 | 9.2 | 8.5 | 1 ✓ |
| 225 − 39° | 2923 | 6 | 50.0 − 39 | 26.3 | 8.7 | 1 ✓ |
| 226 − 39° | 2927 | 6 | 50.4 − 39 | 36.3 | 9.0 | 1 ✓ |
| 227 − 39° | 2937 | 6 | 50.9 − 39 | 47.3 | 9.5 | 1 ✓ |
| 228 − 40° | 2767 | 6 | 50.3 − 40 | 1.9 | 8.5 | 1 ✓ |
| 229 − 39° | 2934 | 6 | 50.6 − 39 | 59.8 | 8.7 | 1 ✓ |
| 230 − 40° | 2788 | 6 | 50.8 − 40 | 7.8 | 9.2 | 1 ✓ |

Cards made with.

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Monday, Jan. 13, 1913.
B 20534 shot disp.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 231 | 3 | K0 | |
| 232 | 4 | K2 | |
| 233 | 3 | F5 | |
| 234 | 8 | F0 | E. |
| 235 | 5 | F8 | |
| 236 | 2 | K0 | |
| 237 | 4 | G5 | |
| 238 | 3 | G0 | |
| 239 | 7 | A2 | |
| 240 | 7 | B8 | |
| 241 | 2 | A3 | |
| 242 | 8 | B8 | |
| 243 | 2 | A3 | |
| 244 | 4 | F0 | |
| 245 | 4 | G5 | |
| 246 | 2 | A0 | |
| 247 | 1 | F8 | |
| 248 | 1 | G5 | |
| 249 | 1 | F0 | |
| 250 | 2 | F0 | |
| 251 | 2 | A0 | |
| 252 | 1 | K0 | |
| 253 | 8 | A5 | |
| 254 | 2 | A | Partly superposed on 256. |
| 255 | 2 | G0 | |
| 256 | 2 | K2 | |
| 257 | 10+ | A | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 231 | -40° | 2776 | 6 | 50.5 | -40 | 18.4 | 9.0 1 ∨ |
| 232 | -40° | 2781 | 6 | 50.7 | -40 | 41.4 | 8.3 1 – |
| 233 | -40° | 2793 | 6 | 52.4 | -40 | 38.4 | 9.0 1 ∨ |
| 234 | -40° | 2796 | 6 | 52.4 | -40 | 49.4 | 7.7 1 ∨ |
| 235 | -38° | 2998 | 6 | 49.3 | -38 | 47.1 | 9.0 1 ∨ -38° 2997 6 49.2 -38 277 mean 9.9 |
| 236 | -38° | 2992 | 6 | 48.9 | -38 | 49.1 | 8.5 1 ∧ ∨ |
| 237 | -38° | 2990 | 6 | 48.8 | -38 | 52.6 | 8.7 1 ∨ |
| 238 | -38° | 2983 2988 | 6 | 48.6 48.8 | -38 | 30.3 | 9.0 1 ∧ ∨ |
| 239 | -38° | 2983 | 6 | 48.2 | -38 | 28.4 | 8.3 1 ∨ |
| 240 | -38° | 2973 | 6 | 47.8 | -38 | 29.3 | 8.3 1 ∧ ∨ |
| 241 | -38° | 2966 | 6 | 47.2 | -38 | 29.9 | 9.0 1 ∧ ∨ |
| 242 | -38° | 2970 | 6 | 47.4 | -38 | 4.2 | 7.7 1 ∧ ∨ |
| 243 | -37° | 2958 3133 | 6 | 48.8 48.7 | -37 | 3.7 57.2 | 9.5 1 ∧ – |
| 244 | -38° | 2955 | 6 | 46.6 | -38 | 14.4 | 8.7 1 ∧ ∨ |
| 245 | -37° | 3137 | 6 | 48.1 | -37 | 42.2 | 8.5 1 ∨ |
| 246 | -37° | 3156 | 6 | 49.5 | -37 | 48.2 | 9.6 1 ∧ ∨ |
| 247 | -37° | 3143 | 6 | 48.6 | -37 | 47.7 | 9.5 1 ∧ ∨ |
| 248 | -37° | 3139 | 6 | 48.2 | -37 | 59.7 | 9.1 1 ∧ ∨ |
| 249 | -37° | 3133 3130 | 6 6 | 47.7 47.6 | -37 -37 | 57.2 52.7 | 9.6 1 ∨ |
| 250 | -37° | 3118 | 6 | 46.4 | -37 | 48.7 | 9.3 1 ∧ ∨ |
| 251 | -37° | 3116 | 6 | 46.3 | -37 | 59.2 | 9.7 1 ∧ ∨ |
| 252 | -37° | 3114 | 6 | 46.2 | -37 | 20.9 | 9.4 1 ∧ ∨ |
| 253 | -37° | 3094 | 6 | 44.1 | -37 | 27.5 | 8.3 1 ∧ ∨ |
| 254 | -37° | 3091 | 6 | 44.0 | -37 | 44.3 | 9.5 1 ∧ ∨ |
| 255 | -37° | 3093 | 6 | 44.1 | -37 | 51.9 | 9.3 1 ∧ ∨ |
| 256 | -37° | 3088 | 6 | 43.9 | -37 | 50.9 | 8.5 1 ∧ ∨ |
| 257 | -37° | 3080 | 6 | 43.1 | -37 | 47.3 | 5.3 1 ∧ ∨ |

Cards made out

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Thursday, Jany. 13, 1913.
B 20534 slant disp.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 258 | 3 | K0 | |
| 259 | 2 | G0 | |
| 260 | 4 | A2 | |
| 261 | 3 | A0 | |
| 262 | 2 | A2 | |
| 263 | 7 | K0 | |
| 264 | 7 | A2 | |
| 265 | 2 | K0 | |
| 266 | 8 | A0 | |
| 267 | 1 | A | |
| 268 | 2 | G0 | |
| 269 | 2 | A2 | |
| 270 | 4 | A0 | |
| 271 | 7 | A2 | |
| 272 | 8 | K0 | |
| 273 | 3 | F0 | |
| 274 | 1 | K0 | |
| 275 | 3 | A0 | |
| 276 | 1 | A | Partly superposed on 275. |
| 277 | 3 | A2 | |
| 278 | 7 | F0 | |
| 279 | 4 | A5 | |
| 280 | 4 | K2 | |
| 281 | 2 | F0 | |
| 282 | 10+ | A | |
| 283 | 3 | F2 | |
| 284 | 2 | K0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 258 | -37° | 3075 | 6 | 42.7 | -37 | 57.9 | 8.5 |
| 259 | -38° | 2900 | 6 | 42.8 | -38 | 14.5 | 9.0 |
| 260 | -38° | 2899 | 6 | 42.7 | -38 | 37.8 | 9.3 |
| 261 | -38° | 2931 | 6 | 45.2 | -38 | 31.0 | 8.7 |
| 262 | -38° | 2926 | 6 | 44.8 | -38 | 18.4 | 9.4 |
| 263 | -38° | 2914 | 6 | 44.1 | -38 | 31.3 | 8.0 |
| 264 | -38° | 2912 | 6 | 44.0 | -38 | 45.2 | 8.5 |
| 265 | -39° | 2846 | 6 | 43.4 | -39 | 1.6 | 8.7 |
| 266 | -38° | 2905 | 6 | 43.2 | -38 | 47.3 | 7.7 |
| 267 | -38° | 2982 | 6 | 48.1 | -38 | 59.1 | 9.5 |
| 268 | -39° | 2894 | 6 | 47.6 | -39 | 4.7 | 9.0 |
| 269 | -38° | 2969 | 6 | 47.3 | -38 | 55.1 | 9.6 |
| 270 | -39° | 2883 | 6 | 46.6 | -39 | 20.2 | 8.7 |
| 271 | -38° | 2949 | 6 | 46.1 | -38 | 59.7 | 9.2 |
| 272 | -38° | 2948 | 6 | 46.0 | -38 | 55.2 | 7.5 |
| 273 | -38° | 2943 | 6 | 45.8 | -38 | 56.4 | 9.0 |
| 274 | -38° | 2933 | 6 | 44.6 | -38 | 53.2 | 9.8 |
| 275 | -39° | 2862 | 6 | 44.2 | -39 | 3.9 | 9.5 |
| 276 | -39° | 2861 | 6 | 44.2 | -39 | 0.2 | 9.5 |
| 277 | -39° | 2860 | 6 | 44.1 | -39 | 20.2 | 9.5 |
| 278 | -39° | 2853 | 6 | 43.9 | -39 | 32.4 | 8.3 |
| 279 | -39° | 2850 | 6 | 43.6 | -39 | 38.4 | 8.7 |
| 280 | -40° | 2699 | 6 | 44.7 | -40 | 0.1 | 8.5 |
| 281 | -39° | 2836 | 6 | 42.3 | -39 | 18.8 | 9.3 |
| 282 | -39° | 2831 | 6 | 41.9 | -39 | 24.8 | 6.7 |
| 283 | -38° | 2882 | 6 | 41.1 | -38 | 38.8 | 9.0 |
| 284 | -38° | 2871 | 6 | 40.4 | -38 | 18.6 | 8.7 |

Cards smacke out

C.P.D. 39° 1108 6 VII-39 18.0 mags. 9.4 superposed. not in Chm.

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Monday. Jan. 13. 1913.

B 3205 34 short exp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 285 | 2 | A3 | |
| 286 | 10+ | F5 | |
| 287 | 2 | A0 | |
| 288 | 5 | F0 | |
| 289 | 3 | A5 | |
| 290 | 4 | A5 | |
| 291 | 3 | F8 | |
| 292 | 5 | G0 | |
| 293 | 6 | A2 | |
| 294 | 7 | K0 | |
| 295 | 8 | B8 | |
| 296 | 4 | G5 | |
| 297 | 2 | A2 | |
| 298 | 2 | A5 | |
| 299 | 10+ | A3 | |
| 300 | 2 | F2 | |
| 301 | 2 | K2 | |
| 302 | 5 | A0 | |
| 303 | 2 | A1 | |
| 304 | 2 | A | Focus poor |
| 305 | 10+ | A2 | |
| 306 | 5 | A5 | |
| 307 | 1 | F0 | |
| 308 | 2 | G5 | |
| 309 | 1 | K2 | |
| 310 | 3 | A | E. |
| 311 | 1 | G0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 285 | -37° | 3060 | 6 | 41.7 | -37 | 59.3 | 9.1 | ∧ ∨ |
| 286 | -37° | 3065 | 6 | 41.9 | -37 | 38.3 | 6.5 | ∧ ∨ |
| 287 | -37° | 3061 | 6 | 41.7 | -37 | 22.0 | 9.5 | ∧ ∨ |
| 288 | -37° | 3058 | 6 | 41.6 | -37 | 17.0 | 8.3 | ∧ ∨ |
| 289 | -37° | 3050 | 6 | 41.2 | -37 | 10.4 | 8.8 | ∧ ∨ |
| 290 | -37° | 3044 | 6 | 41.0 | -37 | 29.3 | 9.0 | ∧ ∨ |
| 291 | -37° | 3053 | 6 | 41.3 | -37 | 39.3 | 9.0 | ∧ ∨ |
| 292 | -37° | 3035 | 6 | 40.2 | -37 | 56.4 | 2.5 | ∧ — |
| 293 | -37° | 3036 | 6 | 40.2 | -37 | 40.7 | 8.5 | ∧ — |
| 294 | -37° | 3029 | 6 | 39.9 | -37 | 39.3 | 7.5 | ∧ ∨ |
| 295 | -37° | 3022 | 6 | 38.7 | -37 | 15.2 | 8.3 | ∧ ∨ |
| 296 | -38° | 3085 | 6 | 37.8 / 38.7 | -38 | 53.4 / 50.6 | 8.7 | ∧ ∨ |
| 297 | -38° | 2843 | 6 | 38.0 | -38 | 5.4 | 9.4 | ∧ ∨ |
| 298 | -38° | 2838 | 6 | 37.5 | -38 | 9.1 | 9.6 | ∧ ∨ |
| 299 | -38° | 2844 | 6 | 38.0 | -38 | 17.1 | 6.8 | ∧ — |
| 300 | -38° | 2823 | 6 | 36.7 | -38 | 12.6 | 8.6 | ∧ ∨ |
| 301 | -38° | 2834 | 6 | 37.1 | -38 | 18.4 | 8.5 | ∧ ∨ |
| 302 | -38° | 2856 | 6 | 38.8 | -38 | 50.4 | 8.7 | ∧ — |
| 303 | -39° | 2793 | 6 | 39.0 | -39 | 0.9 | 9.3 | ∧ ∨ |
| 304 | -39° | 2791 | 6 | 38.8 | -39 | 7.9 | 9.4 | ∧ ∨ |
| 305 | -39° | 2798 | 6 | 39.2 | -39 | 4.7 | 6.6 | ∧ ∨ |
| 306 | -39° | 2800 | 6 | 39.4 | -39 | 15.3 | 8.3 | ∧ ∨ |
| 307 | -39° | 2763 | 6 | 36.6 | -39 | 17.2 | 9.5 | ∧ ∨ |
| 308 | -39° | 2748 | 6 | 36.0 / 35.7 | -39 | 12.2 / 17.7 | 9.0 / 8.6 | ∧ ∨ |
| 309 | -39° | 2725 | 6 | 35.4 | -39 | 22.7 | 9.0 | ∧ ∨ |
| 310 | -38° | 2818 | 6 | 35.7 | -38 | 40.4 | 8.5 | ∧ ∨ |
| 311 | -39° | 2998 | 6 | 36.4 | -37 | 9.5 | 9.5 | ∧ ∨ |

-37° 3996 6 36.3-37.88 magn. 9.6 superposed

cards made out

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Monday. Jan. 13, 1913.

B20534 about disp.

| | hr | Int. | Class | Remark |
|---|---|---|---|---|
| 10.40 | 312 | 1 | F4 | |
| 11.10 | 313 | 3 | K2 | |
| | 314 | 2 | K0 | |
| | 315 | 3 | K0 | |
| | 316 | 2 | F5 | |
| | 317 | 3 | A3 | |
| | 318 | 1 | A5 | |
| | 319 | 3 | F8 | |
| Twice 11.14 | 320 | 2 | K0 | |
| | 321 | | | |
| | 322 | | | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 312 - 36° | 3078 | 6 | 36.8 - 36 | 51.1 | 9.4 | 1 ⌣ |
| 313 - 39° | 2912 | 6 | 49.0 - 39 | 32.3 | 8.0 | 1 ⌣ |
| 314 - 40° | 2756 | 6 | 49.2 - 40 | 10.4 | 9.0 | 1 ⌣ |
| 315 - 40° | 2754 | 6 | 49.0 - 40 | 21.4 | 8.6 | 1 ⌣ |
| 316 - 40° | 2729 | 6 | 46.9 - 40 | 10.4 | 8.7 | 1 ⌣ |
| 317 - 40° | 2721 | 6 | 46.7 - 40 | 28.0 | 9.4 | 1 ⌣ |
| 318 - 39° | 2882 | 6 | 46.3 - 39 | 30.3 | 9.3 | 1 ⌣ |
| 319 - 39° | 2808 | 6 | 40.3 - 39 | 33.4 | 9.1 | 1 ⌣ |
| 320 - 37° | 2955 | 6 | 33.4 - 37 | 50.0 | 9.0 | 1 ⌣ |

Identified by AMC. March 4, 1913

Checked Dec. 31 1913 H.D.W.

Cards made out by G.R.B.

Cards checked by AMC.

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Monday, Jany. 13 1913.

Time: 10.54

B 1855.8 Long disk (for bright stars)

| No. | Dist. | Class | Remark |
|---|---|---|---|
| 1 | 5 | B9 | |
| 2 | 6 | F0 | |
| 3 | 2 | A3 | |
| 4 | 2 | A0 | |
| 5 | 2 | A0 | |
| 6 | 3 | F0 | |
| 7 | 4 | B9 | |
| 8 | 4 | F0 | |
| 9 | 8 | K0 | |
| 10 | 9 | B9 | |
| 11 | 9 | B3 | |
| 12 | 4 | A0 | |
| 13 | 5 | F5 | |
| 14 | 2 | G0 | |
| 15 | 2 | A5 | |
| 16 | 6 | K0 | |
| 17 | 3 | B8 | |
| 18 | 4 | A2 | |
| 18w | 5 | B8 | |
| 19 | 7 | B8 | |
| 20 | 7 | F2 | |
| 21 | 5 | A3 | |
| 22 | 8 | B9 | |
| 23 | 3 | A0 | |
| 24 | 3 | A2 | |
| 25 | 3 | A0 | |
| 26 | 7 | B5 | |
| 27 | 10+ | B3 | Pumped out. |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | -36° | 2869 | 6 | 19.4 | -36 | 57.3 | 7.5 ✓ |
| 2 | -37° | 2887 | 6 | 22.9 | -37 | 49.4 | 6.8 ✓ |
| 3 | -38° | 2677 | 6 | 24.6 | -38 | 14.2 | 8.0 ✓ |
| 4 | -37° | 2864 | 6 | 25.6 | -37 | 55.2 | 8.5 ✓ |
| 5 | -38° | 2707 | 6 | 26.9 | -38 | 10.7 | 9.0 ✓ -38° 2708 Lupercal mags. 9.5 |
| 6 | -37° | 2883 | 6 | 27.6 | -37 | 59.2 | 8.0 ✓ |
| 7 | -37° | 2882 | 6 | 27.5 | -37 | 5.3 | 7.9 ✓ |
| 8 | -37° | 2901 | 6 | 28.9 | -37 | 43.7 | 7.7 ✓ |
| 9 | -37° | 2889 | 6 | 28.1 | -37 | 35.8 | 6.8 ✓ |
| 10 | -36° | 3009 | 6 | 31.1 | -36 | 41.4 | 6.0 ✓ |
| 11 | -36° | 3031 | 6 | 32.9 | -36 | 52.7 | 6.3 ✓ |
| 12 | -36° | 3011 | 6 | 31.2 | -36 | 9.7 | 7.1 ✓ |
| 13 | -35° | 3005 | 6 | 31.5 | -35 | 58.4 | 6.9 ✓ |
| 14 | -36° | 3020 | 6 | 31.8 | -36 | 2.7 | 7.4 ✓ |
| 15 | -36° | 3021 | 6 | 31.9 | -36 | 31.7 | 8.3 ✓ |
| 16 | -38° | 2782 | 6 | 32.8 | -38 | 2.6 | 6.7 ✓ |
| 17 | -38° | 2793 | 6 | 33.5 | -38 | 31.3 | 7.5 ✓ |
| 18a | -38° | 2761 | 6 | 31.2 | -38 | 42.5 | 7.7 ✓ |
| 18 | -37° | 2970 | 6 | 34.4 | -37 | 52.6 | 7.5 ✓ |
| 19 | -40° | 2508 | 6 | 26.6 | -40 | 20.7 | 6.6 ✓ |
| 20 | -40° | 2482 | 6 | 24.7 | -40 | 59.0 | 6.5 ✓ |
| 21 | -40° | 2458 | 6 | 21.8 | -40 | 54.2 | 7.2 ✓ |
| 22 | -40° | 2440 | 6 | 20.7 | -40 | 12.8 | 6.5 ✓ |
| 23 | -41° | 2405 | 6 | 22.2 | -41 | 34.0 | 8.0 ✓ |
| 24 | -42° | 2579 | 6 | 28.5 | -42 | 28.0 | 8.7 ✓ |
| 25 | -42° | 2618 | 6 | 32.5 | -42 | 1.2 | 8.8 ✓ |
| 26 | -43° | 2540 | 6 | 33.5 | -43 | 20.6 | 6.9 ✓ |
| 27 | -43° | 2546 | 6 | 33.9 | -43 | 5.2 | 3.5 ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday Jan. 13, 1913.

B 18558 long disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 4 | A0 | |
| 29 | 5 | B8 | |
| 30 | 2 | A3 | |
| 31 | 2 | F0 | |
| 32 | 2 | A0 | |
| 33 | 8 | G5 | |
| 34 | 3 | A0 | Partly superposed on 33. |
| 35 | 4 | A0 | |
| 36 | 8 | A3 | |
| 37 | 3 | A0 | |
| 38 | 2 | A0 | |
| 39 | 7 | A2 | |
| 40 | 3 | G9 | |
| 41 | 2 | A0 | |
| 42 | 3 | A2 | |
| 43 | 2 | F2 | |
| 44 | 8 | G5 | |
| 45 | 10 | G9 | |
| 46 | 2 | A3 | |
| 47 | 4 | A0 | |
| 48 | 7 | G8 | |
| Time: 11.05 | 49 | 4 | G9 |
| | 50 | | |
| | 51 | | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 28 | -43° | 2587 | 6 | 35.0 - 43 | 42.7 | 8.1 ✓ |
| 29 | -43° | 2596 | 6 | 36.0 - 43 | 17.3 | 7.7 ✓ |
| 30 | -40° | 2597 | 6 | 34.3 - 40 | 55.1 | 8.5 ✓ |
| 31 | -40° | 2611 | 6 | 36.1 - 40 | 38.8 | 8.3 ✓ |
| 32 | -40° | 2617 | 6 | 36.6 - 40 | 21.4 | 8.1 ✓ |
| 33 | -40° | 2625 | 6 | 37.2 - 40 | 13.6 | 6.8 ✓ |
| 34 | -40° | 2626 | 6 | 37.2 - 40 | 10.1 | 8.0 ✓ |
| 35 | -39° | 2777 | 6 | 37.8 - 39 | 39.8 | 7.7 ✓ |
| 36 | -39° | 2798 | 6 | 39.2 - 39 | 4.7 | 6.6 ✓ |
| 37 | -39° | 2800 | 6 | 39.4 - 39 | 15.3 | 8.3 ✓ |
| 38 | -38° | 2856 | 6 | 38.8 - 38 | 50.4 | 8.7 ✓ |
| 39 | -38° | 2844 | 6 | 38.0 - 38 | 17.1 | 6.5 ✓ |
| 40 | -37° | 3022 | 6 | 38.7 - 37 | 15.2 | 8.3 ✓ |
| 41 | -36° | 3097 | 6 | 38.3 - 36 | 30.6 | 8.0 ✓ |
| 42 | -36° | 3130 | 6 | 41.1 - 36 | 43.4 | 7.7 ✓ |
| 43 | -37° | 3058 | 6 | 41.6 - 37 | 17.0 | 8.3 ✓ |
| 44 | -37° | 3065 | 6 | 41.9 - 37 | 38.3 | 6.5 ✓ |
| 45 | -37° | 3080 | 6 | 43.1 - 37 | 47.3 | 5.3 ✓ |
| 46 | -37° | 3094 | 6 | 44.1 - 37 | 27.5 | 8.3 ✓ |
| 47 | -38° | 2905 | 6 | 43.2 - 38 | 47.3 | 7.7 ✓ |
| 48 | -39° | 2831 | 6 | 41.9 - 39 | 2H8 | 6.7 ✓ |
| 49 | -40° | 2734 | 6 | 41.4 - 40 | 23.8 | 7.5 ✓ |

Identified by A.M.C. Mar. 4, 1913
Checked by J.C.M. March 10, 1913
Cards made out by M. C. W.
Cards checked by S.R.B.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday. June 13, 1918.

Time: 11.19

B 12657 about disp.

| No | Int | Class | Remark |
|---|---|---|---|
| 1 | 4 | K0 | |
| 2 | 2 | K5 | |
| 3 | 1 | K5 | |
| 4 | 1 | K5 | |
| 5 | 5 | A5 | |
| 6 | 10+ | B | Burned out |
| 7 | 10+ | B | |
| 8 | 5 | A0 | |
| 9 | 3 | A2 | |
| 10 | 5 | Ma | |
| 11 | 1 | A | Partly superposed on 10. |
| 12 | 6 | A0 | |
| 13 | 2 | A0 | |
| 14 | 10 | A | Burned out |
| 15 | 5 | B8 | E. |
| 16 | 3 | B | E. |
| 17 | 8 | K5 | E. |
| 18 | 2 | A0 | |
| 19 | 6 | B9 | |
| 20 | 1 | A | |
| 21 | 3 | K0 | |
| 22 | 9 | A5 | |
| 23 | 2 | A0 | |
| 24 | 2 | K5 | Another star superposed at north. |
| 25 | 7 | A2 | ~~Another star superposed at~~ |
| 26 | 4 | K5 | |
| 27 | 3 | A0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -33° | 2982 | 6 | 22.1 | -33 | 20.1 | 7.5 | ∧ ∨ |
| 2 | -33° | 2989 | 6 | 22.7 | -33 | 1.6 | 8.5 | ∧ ∨ |
| 3 | -33° | 2987 | 6 | 22.6 | -33 | 20.7 | 9.0 | ∧ ∨ |
| 4 | -32° | 3047 | 6 | 22.5 | -32 | 49.0 | 8.6 | ∧ ∨ |
| 5 | -32° | 3058 | 6 | 22.8 | -32 | 32.5 | 8.3 | ∧ ∨ |
| 6 | -32° | 3066 | 6 | 23.5 | -32 | 30.2 | 4.7 | ∧ ∨ |
| 7 | -32° | 3072 | 6 | 24.0 | -32 | 17.3 | 6.5 | ∧ ∨ |
| 8 | -32° | ~~3060~~ 3074 | 6 | 24.1 | -32 | 45.5 | 9.7 | ∧ ∨ |
| 9 | -32° | 3109 | 6 | 26.2 | -32 | 24.4 | 8.7 | ∧ ∨ |
| 10 | -32° | 3121 | 6 | 26.8 | -32 | 46.6 | 7.1 | ∧ ∨ |
| 11 | -32° | 3120 | 6 | 26.7 | -32 | 48.5 | 9.5 | ∧ ∨ |
| 12 | -32° | 3159 | 6 | 29.2 | -32 | 56.5 | 8.2 | ∧ ∨ |
| 13 | -32° | 3154 | 6 | 28.9 | -32 | 24.6 | 9.0 | ∧ ∨ |
| 14 | -32° | 3168 | 6 | 30.0 | -32 | 37.4 | 6.1 | ∧ ∨ |
| 15 | -32° | 3171 | 6 | 30.3 | -32 | 12.2 | 8.3 | ∧ ∨ |
| 16 | -32° | 3202 | 6 | 32.3 | -32 | 6.4 | 7.7 | ∧ ∨ |
| 17 | -32° | 3216 | 6 | 33.1 | -32 | 18.4 | 5.7 | ∧ ∨ |
| 18 | -32° | 3230 | 6 | 34.2 | -32 | 43.1 | 8.7 | ∧ ∨ |
| 19 | -32° | 3256 | 6 | 35.4 | -32 | 47.1 | 8.5 | ∧ ∨ |
| 20 | -32° | 3257 | 6 | 35.4 | -32 | 37.8 | 9.3 | ∧ ∨ |
| 21 | -32° | 3268 | 6 | 36.1 | -32 | 39.7 | 8.1 | ∧ ∨ |
| 22 | -32° | 3298 | 6 | 38.1 | -32 | 35.1 | 7.3 | ∧ ∨ |
| 23 | -32° | 3305 | 6 | 38.4 | -32 | 52.4 | 9.3 | ∧ ∨ |
| 24 | -33° | 3156 | 6 | 37.1 | -33 | 20.8 | 8.3 | ∧ ∨ |
| 25 | -34° | 2926 | 6 | 36.0 | -34 | 5.9 | 7.7 | ∧ ∨ |
| 26 | -35° | 3047 | 6 | 34.6 | -35 | 2.0 | 8.3 | ∧ ∨ |
| 27 | -35° | 3046 | 6 | 34.5 | -35 | 23.7 | 9.0 | ∧ ∨ |

This star is mags. 8.6 in the zone catalogue. Plainly an error in count-wires. 9.7 in GPD + correspond with Empl-on plate

mags. 9.5

-32 3255 superposed

mags. 8.7

-33 3155 superposed

Cards made out

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Monday Jan. 13, 1913

B 12,657 short disp

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 5 | $J_0$ | |
| 29 | 5 | $J_2$ | |
| 30 | 6 | $J_8$ | |
| 31 | 1 | $J_{12}$ | |
| 32 | 2 | $P_3$ | |
| 33 | 5 | $A_{13}$ | |
| 34 | 2 | $J_5$ | |
| 35 | 8 | $A_{13}$ | |
| 36 | 3 | $A_{13}$ | |
| 37 | 3 | $A_{10}$ | |
| 38 | 1 | $l_5$ | |
| 39 | 1 | $J_5$ | |
| 40 | 9 | $A_{15}$ | |
| 41 | 1 | $J$ | |
| 42 | 1 | $A$ | |
| 43 | 3 | $l_{10}$ | |
| 44 | 5 | $l_5$ | |
| 45 | 6 | $J_5$ | |
| 46 | 4 | $A_{12}$ | |
| 47 | 2 | $A_{15}$ | |
| 48 | 10 | $J_8$ | |
| 49 | 2 | $J_5$ | |
| 50 | 4 | $A_{12}$ | |
| 51 | 10 | $J_5$ | |
| 52 | 8 | $A_{10}$ | |
| 53 | 8 | $J_5$ | |
| 54 | 5 | $l_{10}$ | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | − 35° | 3049 | 6 | 34.8 | − 35 | 25.8 | 8.3 | 1 v |
| 29 | − 35° | 3050 | 6 | 35.0 | − 35 | 53.9 | 8.3 | 1 v |
| 30 | − 35° | 3034 | 6 | 38.5 | − 35 | 59.9 | 7.7 | 1 v |
| 31 | − 34° | 2851 | 6 | 20.3 | − 34 | 2.0 | 8.3 | 1 v |
| 32 | − 34° | 2893 | 6 | 23.8 | − 34 | 18.4 | 8.0 | 1 v |
| 33 | − 34° | 2907 | 6 | 24.9 | − 34 | 0.4 | 7.5 | 1 v |
| 34 | − 34° | 2914 | 6 | 25.6 | − 34 | 55.0 | 9.3 | 1 v |
| 35 | − 34° | 2921 | 6 | 26.4 | − 34 | 54.8 | 7.5 | 1 v |
| 36 | − 34° | 2925 | 6 | 26.8 | − 34 | 33.0 | 8.5 | 1 v |
| 37 | − 34° | 2932 | 6 | 27.2 | − 34 | 24.8 | 8.7 | 1 v |
| 38 | − 34° | 2939 | 6 | 27.9 | − 34 | 7.4 | 8.5 | 1 v |
| 39 | − 34° | 2940 | 6 | 28.0 | − 34 | 15.4 | 9.3 | 1 v |
| 40 | − 33° | 3080 | 6 | 30.2 | − 33 | 54.7 | 7.0 | 1 v |
| 41 | − 33° | 3061 | 6 | 29.0 | − 33 | 43.9 | 8.5 | 1 v |
| 42 | − 33° | 3091 | 6 | 31.1 | − 33 | 7.1 | 8.5 | 1 v |
| 43 | − 34° | 2964 | 6 | 30.4 | − 34 | 44.4 | 8.5 | 1 v |
| 44 | − 34° | 2965 | 6 | 30.5 | − 34 | 57.0 | 8.0 | 1 v |
| 45 | − 35° | 3008 | 6 | 31.5 | − 35 | 4.5 | 7.7 | 1 v |
| 46 | − 34° | 2978 | 6 | 32.1 | − 34 | 34.4 | 8.7 | 1 v |
| 47 | − 35° | 2987 | 6 | 29.9 | − 35 | 7.0 | 8.7 | 1 v |
| 48 | − 35° | 2947 | 6 | 26.8 | − 35 | 10.5 | 6.5 | 1 v |
| 49 | − 35° | 2946 | 6 | 26.6 | − 35 | 23.8 | 8.3 | 1 v |
| 50 | − 35° | 2948 | 6 | 26.8 | − 35 | 32.0 | 8.4 | 1 v |
| 51 | − 36° | 2990 | 6 | 29.4 | − 36 | 8.1 | 5.9 | 1 v |
| 52 | − 36° | 3011 | 6 | 31.2 | − 36 | 9.7 | 7.1 | 1 v |
| 53 | − 35° | 3005 | 6 | 31.5 | − 35 | 58.4 | 6.9 | 1 v |
| 54 | − 36° | 3020 | 6 | 31.8 | − 36 | 2.7 | 7.4 | 1 v |

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Monday June 13, 1913.
12657 sheet disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 10+ | A | Burned out |
| 56 | 4 | A3 | |
| 57 | 10+ | B3? | Burned out |
| 58 | 2 | K0 | |
| 59 | 3 | K0 | |
| 60 | 4 | K0 | |
| 61 | 4 | B8 | focus poor |
| 62 | 3 | B9 | " " |
| 63 | 7 | K0 | |
| 64 | 8 | B8 | |
| 65 | 4 | K2 | |
| 66 | 2 | K5 | |
| 67 | 1 | A | |
| 68 | 7 | M2 | |
| 69 | 7 | B9 | |
| 70 | 1 | K | |
| 71 | 3 | A2 | |
| 72 | 7 | K0 | |
| 73 | 3 | K0 | |
| 74 | 1 | K0 | |
| 75 | 2 | A2 | |
| 76 | 2 | A2 | |
| 77 | 1 | K5 | |
| 78 | 2 | K5 | |
| 79 | 2 | K0 | |
| 80 | 3 | K0 | |
| 81 | 2 | K0 | Party suspended on 80. |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | -36° | 3009 | 6 | 31.1 | -36 | 41.4 | 6.0 1 v |
| 56 | -36° | 3021 | 6 | 31.9 | -36 | 31.7 | 8.3 1 √ |
| 57 | -36° | 3031 | 6 | 32.9 | -36 | 52.7 | 6.3 1 √ |
| 58 | -37° | 2977 | 6 | 35.0 | -37 | 1.1 | 8.5 1 √ |
| 59 | -36° | 3065 | 6 | 35.7 | -36 | 58.6 | 8.1 1 √ |
| 60 | -37° | 2974 | 6 | 34.8 | -37 | 25.1 | 7.9 1 √ |
| 61 | -37° | 2979 | 6 | 35.2 | -37 | 31.0 | 8.7 1 √ |
| 62 | -37° | 2983 | 6 | 35.5 | -37 | 37.0 | 9.2 1 √ |
| 63 | -38° | 2817 | 6 | 35.7 | -38 | 2.8 | 7.0 1 √ |
| 64 | -37° | 2970 | 6 | 34.4 | -37 | 52.6 | 7.5 1 √ |
| 65 | -37° | 2932 | 6 | 31.3 | -37 | 45.1 | 7.7 1 √ |
| 66 | -37° | 2929 | 6 | 31.1 | -37 | 21.1 | 8.0 1 √ |
| 67 | -37° | 2913 | 6 | 30.1 | -37 | 2.7 | 9.0 1 √ |
| 68 | -36° | 2962 | 6 | 27.3 | -36 | 51.3 | 6.9 1 √ |
| 69 | -37° | 2882 | 6 | 27.5 | -37 | 5.3 | 7.9 1 √ |
| 70 | -37° | 2885 | 6 | 27.8 | -37 | 22.7 | 8.6 1 √ |
| 71 | -38° | 2782 | 6 | 29.1 | -38 | 0.2 | 9.0 1 √ |
| 72 | -38° | 2730 | 6 | 29.0 | -38 | 31.7 | 6.9 1 √ |
| 73 | -38° | 2740 | 6 | 29.7 | -38 | 45.0 | 8.3 1 √ |
| 74 | -38° | 2713 | 6 | 27.5 | -38 | 33.0 | 8.3 1 √ |
| 75 | -38° | 2697 | 6 | 26.2 | -38 | 40.5 | 8.5 1 √ |
| 76 | -39° | 2652 | 6 | 26.6 | -39 | 0.8 | 9.1 1 √ |
| 77 | -38° | 2709 | 6 | 27.0 | -38 | 57.0 | 8.0 1 √ |
| 78 | -39° | 2637 | 6 | 25.9 | -39 | 40.0 | 8.3 1 √ |
| 79 | -39° | 2623 | 6 | 24.6 | -39 | 41.5 | 8.5 1 √ |
| 80 | -40° | 2486 | 6 | 25.1 | -40 | 18.2 | 7.7 1 √ |
| 81 | -40° | 2487 | 6 | 25.1 | -40 | 19.2 | 6.0 1 √ |

There is no corresponding plate for star at -38° 2700 but there is a star at that exact position on plate 2697 & it is not in C.P.D. Error in catn.

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, Jan 13 1913
B1265 7 plat cuts.

| No. | Int | Class | Remark |
|---|---|---|---|
| 82 | 2 | 1/0 | |
| 83 | 7 | 1/2 | |
| 84 | 3 | 1/5 | |
| 85 | 4 | 1/5 | |
| 86 | 2 | 1/8 | |
| 87 | 1 | 1/5 | |
| 88 | 2 | 1/3 | |
| 89 | 2 | 1/4 | |
| 90 | 3 | 1/2 | |
| Trine 11.34 91 | 4 | 1/0 | |
| 92 | | | |
| 93 | | | |
| 94 | | | |
| 95 | | | |

cmk 134, 74



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | -40° | 2505 | 6 | 26.4 | -40 | 29.4 | 8.5 1 v |
| 83 | -40° | 2512 | 6 | 27.0 | -40 | 49.5 | 6.5 1 v |
| 84 | -41° | 2442 | 6 | 26.9 | -41 | 15.3 | 7.8 1 v |
| 85 | -39° | 2680 | 6 | 29.5 | -39 | 33.0 | 8.0 1 v |
| 86 | -40° | 2532 | 6 | 29.0 | -40 | 32.3 | 8.5 1 v |
| 87 | -40° | 2528 | 6 | 28.8 | -40 | 56.9 | 8.2 1 v |
| 88 | -41° | 2460 | 6 | 29.3 | -41 | 2.4 | 8.5 1 v |
| 89 | -40° | 2547 | 6 | 30.0 | -40 | 58.8 | 8.5 1 v |
| 90 | -40° | 2555 | 6 | 31.0 | -40 | 55.5 | 8.4 1 v |
| 91 | -40° | 2562 | 6 | 31.8 | -40 | 56.8 | 7.7 1 v |

Identified by AMC Jan 27. 1913
Checked Feb. 17 1913 HDW.
Cards made out by Mr. C.W.
Cards checked by E.K.B.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, Jan. 14, 1913.

B 7406 long disp.

Time: 19.35

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 3 | A2 | |
| 2 | 10+ | B | |
| 3 | 5 | B8 | E. |
| 4 | 4 | A0 | E. |
| 5 | 6 | B8 | E. |
| 6 | 7 | A0 | E. |
| 7 | 2 | A2 | |
| 8 | 6 | A5 | |
| 9 | 10 | B3 | |
| 10 | 6 | F5 | |
| 11 | 3 | B9 | |
| 12 | 3 | A | |
| 13 | 6 | B9 | |
| 14 | 8 | B5 | |
| 15 | 3 | A0 | |
| 16 | 3 | F5 | |
| 17 | 5 | B9 | |
| 18 | 5 | B8 | |
| 19 | 10+ | B3 | |
| 20 | 10+ | G5 | |
| 21 | 10+ | B | H&S bright |
| 22 | 10+ | K5 | |
| 23 | 5 | B5 | E. |
| 24 | 7 | B8 | E. |
| 25 | 5 | A3 | E. |
| 26 | 9 | B9 | |
| 27 | 8 | B9 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | −32° | 3403 | 6 | 44.9 | −32 | 23.8 | 7.5 | ✓ |
| 2 | −32° | 3404 | 6 | 45.2 | −32 | 21.8 | 4.0 | ✓ |
| 3 | −31° | 3717 | 6 | 45.7 | −31 | 33.4 | 6.3 | ✓ |
| 4 | −31° | 3781 | 6 | 49.6 | −31 | 38.5 | 6.9 | ✓ |
| | −31° | 3808 | 6 | 51.2 | −31 | 37.5 | 6.7 | ✓ |
| 5 | −36 | 3426 | 7 | 8.1 | −36 | 1.7 | 8.3 | |
| | −30° | 3757 | 6 | 54.0 | −30 | 49.7 | 6.7 | ✓ |
| 6 | −36 | 3451 | 7 | 9.8 | −36 | 13.2 | 7.0 | |
| 7 | −33° | 3410 | 6 | 55.8 | −33 | 42.0 | 8.5 | ✓ |
| 8 | −33° | 3402 | 6 | 55.1 | −33 | 17.9 | 6.9 | ✓ |
| 9 | −33° | 3389 | 6 | 53.9 | −33 | 56.4 | 5.4 | ✓ |
| 10 | −35° | 3233 | 6 | 52.8 | −35 | 20.5 | 6.5 | ✓ |
| 11 | −33.5° | 3243 | 6 | 53.8 | −35 | 14.9 | 7.9 | ✓ |
| 12 | −35° | 3272 | 6 | 56.2 | −35 | 39.7 | 8.0 | ✓ |
| 13 | −35° | 3282 | 6 | 57.3 | −35 | 22.2 | 6.8 | ✓ |
| 14 | −36° | 3421 | 7 | 8.0 | −36 | 20.3 | 6.3 | ✓ |
| 15 | −36° | 3426 | 7 | 8.1 | −36 | 1.7 | 8.3 | ✓ |
| 16 | −36° | 3451 | 7 | 9.8 | −36 | 13.2 | 7.3 | ✓ |
| 17 | −36° | 3464 | 7 | 10.7 | −36 | 0.5 | 7.5 | ✓ |
| 18 | −37° | 3411 | 7 | 10.4 | −37 | 2.0 | 7.3 | ✓ |
| 19 | −36° | 3485 | 7 | 12.4 | −36 | 22.0 | 6.6 | ✓ |
| 20 | −36° | 3489 | 7 | 12.8 | −36 | 51.4 | 2.7 | ✓ |
| 21 | −36° | 3512 | 7 | 13.9 | −36 | 30.4 | 5.3 | ✓ |
| 22 | −36° | 3519 | 7 | 14.2 | −36 | 31.0 | 5.4 | ✓ |
| 23 | −36° | 3578 | 7 | 18.8 | −36 | 6.3 | 7.1 | ✓ |
| 24 | −35° | 3569 | 7 | 19.5 | −35 | 36.0 | 6.6 | ✓ |
| 25 | −37° | 3549 | 7 | 20.4 | −37 | 3.3 | 6.7 | ✓ |
| 26 | −38° | 3309 | 7 | 14.3 | −38 | 58.9 | 5.8 | ✓ |
| 27 | −38° | 3288 | 7 | 12.2 | −38 | 6.2 | 6.3 | ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, Jan. 14. 1913.

B 7406

| No | Int. | Class | Remark |
|---|---|---|---|
| 28 | 9 | A0 | E. |
| 29 | 4 | A2 | |
| 30 | 10+ | B5 | |
| 31 | 6 | A | E. |
| 32 | 2 | A2 | |
| 33 | 3 | B9 | |
| 34 | 9 | B8 | E. |
| 35 | 5 | B9 | E. Trans very poor. |
| 36 | 7 | A2 | |
| 37 | 3 | A0 | |
| 38 | 3 | A | |
| 39 | 4 | B9 | |
| 40 | 7 | B8 | E. |
| 41 | 8 | B5 | E. |
| 42 | 7 | B8 | E. |
| 43 | 4 | A2 | |
| 44 | 3 | A0 | |
| 45 | 4 | B9 | |
| 46 | 7 | A5 | E. |
| 47 | 9 | B5 | E. Partly off the plate. |
| 48 | 6 | B3 | E. |
| 49 | 6 | A5 | E |
| 50 | 3 | B8 | |
| 51 | 3 | B1 | |
| 52 | 5 | G0 | |

Time: 11.46



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 28 | -40° | 2987 | 7 | 8.1 | -40 | 18.0 | 5.7 | ✓ | |
| 29 | -38° | 3233 | 7 | 7.1 | -38 | 53.7 | 7.1 | ✓ | |
| 30 | -39° | 3105 | 7 | 4.7 | -39 | 27.3 | 5.3 | ✓ | |
| 31 | -40° | 2930 | 7 | 3.0 | -40 | 41.9 | 6.2 | ✓ | |
| 32 | -38° | 3254 | 7 | 9.2 | -38 | 16.6 | 7.5 | ✓ | |
| 33 | -37° | 3313 | 7 | 2.0 | -37 | 31.0 | 7.9 | ✓ | |
| 34 | -37° | 3080 | 6 | 43.1 | -37 | 47.3 | 5.3 | ✓ | |
| 35 | -37° | 3065 | 7 | 41.9 | -37 | 38.3 | 6.5 | ✓ | |
| 36 | -36° | 3189 | 6 | 47.3 | -36 | 5.3 | 6.2 | ✓ | |
| 37 | -34° | 3182 | 6 | 49.7 | -34 | 4.0 | 7.3 | ✓ | |
| 38 | -33° | 3278 | 6 | 45.6 | -33 | 44.0 | 7.7 | ✓ | |
| 39 | -34° | 3120 | 6 | 44.3 | -34 | 48.2 | 6.5 | ✓ | |
| 40 | -33° | 3813 | 7 | 22.1 | -33 | 52.8 | 6.5 | ✓ | |
| 41 | -31° | 4454 | 7 | 18.8 | -31 | 58.0 | 5.8 | ✓ | |
| 42 | -31° | 4437 | 7 | 18.2 | -31 | 40.8 | 6.9 | ✓ | |
| 43 | -31° | 4430 | 7 | 17.8 | -31 | 48.2 | 7.5 | ✓ | |
| 44 | -32° | 3934 | 7 | 17.4 | -32 | 21.3 | 7.5 | ✓ | |
| 45 | -32° | 3873 | 7 | 13.8 | -32 | 7.3 | 7.5 | ✓ | |
| 46 | -30° | 4234 | 7 | 12.1 | -30 | 40.2 | 7.1 | ✓ | |
| 47 | -30° | 4184 | 7 | 10.5 | -30 | 28.5 | 6.1 | ✓ | |
| 48 | -30° | 4143 | 7 | 9.0 | -30 | 52.2 | 6.9 | ✓ | |
| 49 | -30° | 4081 | 7 | 7.2 | -30 | 36.5 | 6.6 | ✓ | Partly off plate. |
| 50 | -31° | 4099 | 7 | 4.4 | -31 | 44.0 | 7.7 | ✓ | |
| 51 | -34° | 3400 | 7 | 6.7 | -34 | 10.5 | 7.9 | ✓ | |

Identified by J.C.M. August 14, 1913

Checked by Annie. Aug 22, 1913

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 52 | -38° | 3163 | 7 | 1.8 | -38 | 12 | 6.5 | Cards made out by Fr. C. W. |

Cards checked by AJC

165 on B20534

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday Jan 14 1913.

Time: 11.57

B2067 0 dist disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 10+. | F0 + E. | |
| 2 | 2 | F0 | |
| 3 | 4 | F5 | |
| 4 | 3 | F5 | |
| 5 | 2 | F | |
| 6 | 4 | F0 | |
| 7 | 3 | F0 | |
| 8 | 3 | A2 | |
| 9 | 1 | F0 | |
| 10 | 4 | F5 | |
| 11 | 2 | F0 | |
| 12 | 3 | A0 | |
| 13 | 2 | A0 | |
| 14 | 4 | F0 | |
| 15 | 5 | A0 | |
| 16 | 2 | F2 | |
| 17 | 3 | A0 | |
| 18 | 2 | F2 | |
| 19 | 4 | F2 | |
| 20 | 3 | F2 | |
| 21 | 8 | A0 | |
| 22 | 2 | F2 | |
| 23 | 4 | F5 | |
| 24 | 3 | F0 | |
| 25 | 3 | F0 | |
| 26 | 4 | F5 | |
| 27 | 3 | F5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -33° | 3415 | 6 | 56.2 | -33 | 17.3 | 6.9 | ∧ ✓ |
| 2 | -33° | 3408 | 6 | 55.7 | -33 | 28.7 | 9.3 | ∧ ✓ |
| 3 | -33° | 3397 | 6 | 54.6 | -33 | 42.1 | 9.0 | ∧ ✓ |
| 4 | -34° | 3249 | 6 | 54.9 | -34 | 10.2 | 9.3 | ∧ ✓ |
| 5 | -34° | 3265 | 6 | 56.6 | -34 | 31.0 | 9.6 | ∧ ✓ |
| 6 | -34° | 3274 | 6 | 57.3 | -34 | 15.1 | 9.0 | ∧ ✓ |
| 7 | -34° | 3279 | 6 | 57.7 | -34 | 43.9 | 9.3 | ∧ ✓ |
| 8 | -34° | 3287 | 6 | 58.2 | -34 | 17.1 | 9.6 | ∧ ✓ |
| 9 | -34° | 3284 | 6 | 58.2 | -34 | 3.6 | 9.3 | ✓ ✓ |
| 10 | -33° | 3451 | 6 | 58.9 | -33 | 24.8 | 7.5 | ∧ ✓ |
| 11 | -33° | 3461 | 6 | 59.5 | -33 | 37.5 | 8.7 | ∧ ✓ |
| 12 | -33° | 3468 | 7 | 0.0 | -33 | 42.4 | 9.6 | ∧ ✓ |
| 13 | -33° | 3470 | 7 | 0.1 | -33 | 32.0 | 9.8 | ∧ ✓ |
| 14 | -33° | 3475 | 7 | 0.3 | -33 | 18.8 | 8.5 | ∧ ✓ |
| 15 | -33° | 3483 | 7 | 0.9 | -33 | 10.8 | 8.5 | ∧ ✓ |
| 16 | -33° | 3485 | 7 | 0.9 | -33 | 47.3 | 9.3 | ∧ ✓ |
| 17 | -33° | 3497 | 7 | 1.6 | -33 | 52.1 | 9.6 | ∧ ✓ |
| 18 | -34° | 3330 | 7 | 1.2 | -34 | 17.0 | 9.3 | ∧ ✓ |
| 19 | -34° | 3334 | 7 | 1.5 | -34 | 18.6 | 8.9 | ∧ ✓ |
| 20 | -34° | 3339 | 7 | 1.8 | -34 | 32.8 | 8.7 | ∧ ✓ |
| 21 | -34° | 3343 | 7 | 2.0 | -34 | 32.8 | 8.5 | ∧ ✓ |
| 22 | -34° | 3305 | 6 | 59.2 | -34 | 44.4 | 9.6 | ∧ ✓ = 36 3303 Wings 9.6 superposed |
| 23 | -34° | 3311 | 6 | 59.9 | -34 | 50.3 | 9.5 | ∧ ✓ |
| 24 | -34° | 3326 | 7 | 1.0 | -34 | 51.4 | 9.3 | ∧ ✓ |
| 25 | -34° | 3329 | 7 | 1.9 | -34 | 56.7 | 9.6 | ∧ ✓ |
| 26 | -34° | 3342 | 7 | 1.9 | -34 | 51.4 | 9.1 | ∧ ✓ |
| 27 | -34° | 3352 | 7 | 2.8 | -34 | 54.7 | 9.3 | ∧ ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, Jan. 14, 1913.
B 3 6670 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 8 | Ap | |
| 29 | 2 | Ko | Partly superposed on 28. |
| 30 | 5 | Bp | |
| 31 | 5 | Fp | |
| 32 | 3 | Ao | |
| 33 | 2 | Fo | |
| 34 | 2 | Fk | |
| 35 | 2 | A3 | |
| 36 | 2 | A5 | |
| 37 | 1 | Ko | |
| 38 | 1 | A | |
| 39 | 2 | Ko | |
| 40 | 7 | Ao | |
| 41 | 6 | Ao | |
| 42 | 2 | Ao | Partly superposed on 41. |
| 43 | 4 | Ao | |
| 44 | 7 | Ao | |
| 45 | 2 | Fo | |
| 46 | 3 | A5 | |
| 47 | 4 | A2 | |
| 48 | 3 | Bp | |
| 49 | 2 | K2 | |
| 50 | 3 | Bp | |
| 51 | 3 | Ao | |
| 52 | 5 | Fo | |
| 53 | 2 | Fp | |
| 54 | 1 | Bp | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -34° | 3360 | 7 | 3.3 | -34 | 38.8 | 8.0 | ∧✓ |
| 29 | -34° | 3358 | 7 | 3.3 | -34 | 45.3 | 8.7 | ∧✓ |
| 30 | -34° | 3355 | 7 | 3.0 | -34 | 25.7 | 9.3 | ∧✓ |
| 31 | -34° | 3351 | 7 | 2.7 | -34 | 14.6 | 8.5 | ∧✓ |
| 32 | -34° | 3348 | 7 | 2.6 | -34 | 12.6 | 9.7 | ∧✓ |
| 33 | -34° | 3347 | 7 | 2.3 | -34 | 12.0 | 9.3 | ∧✓ |
| 34 | -34° | 3345 | 7 | 2.1 | -34 | 13.0 | 9.0 | ∧✓ |
| 35 | -34° | 3344 | 7 | 2.0 | -34 | 9.6 | 9.3 | ∧✓ |
| 36 | -33° | 3509 | 7 | 2.4 | -33 | 58.6 | 9.5 | ∧✓ |
| 37 | -33° | 3503 | 7 | 2.0 | -33 | 44.6 | 9.3 | ∧✓ |
| 38 | -33° | 3505 | 7 | 2.1 | -33 | 51.1 | 9.7 | ∧✓ |
| 39 | -34° | 3357 | 7 | 3.1 | -34 | 0.0 | 9.5 | ∧✓ |
| 40 | -33° | 3532 | 7 | 4.1 | -33 | 51.6 | 8.7 | ∧✓ |
| 41 | -33° | 3524 | 7 | 3.7 | -33 | 31.4 | 8.7 | ∧✓ |
| 42 | -33° | 3526 | 7 | 3.8 | -33 | 29.4 | 9.7 | ∧✓ |
| 43 | -33° | 3539 | 7 | 4.6 | -33 | 28.1 | 9.6 | ∧✓ |
| 44 | -33° | 3549 | 7 | 5.3 | -33 | 49.6 | 9.0 | ∧✓ |
| 45 | -33° | 3553 | 7 | 5.5 | -33 | 51.6 | 9.9 | ∧✓ |
| 46 | -34° | 3384 | 7 | 5.2 | -34 | 6.0 | 9.7 | ∧✓ |
| 47 | -34° | 3377 | 7 | 4.5 | -34 | 26.6 | 9.2 | ∧✓ |
| 48 | -34° | 3372 | 7 | 4.2 | -34 | 38.4 | 9.2 | ∧✓ |
| 49 | -34° | 3377 | 7 | 4.5 | -34 | 42.1 | 9.2 | ∧✓ |
| 50 | -34° | 3369 | 7 | 4.0 | -34 | 56.7 | 9.3 | ∧✓ |
| 51 | -35° | 3367 | 7 | 3.9 | -35 | 5.7 | 9.7 | ∧✓ |
| 52 | -34° | 3378 | 7 | 4.6 | -34 | 57.7 | 8.9 | ∧✓ |
| 53 | -35° | 3371 | 7 | 4.6 | -35 | 17.7 | 9.5 | ∧✓ |
| 54 | -35° | 3376 | 7 | 5.2 | -35 | 16.2 | 9.7 | ∧✓ |

cards made out.

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Tuesday Jan. 14, 1913.
B 20670 chart disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 7 | Ao | |
| 56 | 3 | Ko | |
| 57 | 2 | Bg | |
| 58 | 2 | A5 | |
| 59 | 3 | G5 | |
| 60 | 4 | Ko | Another star superposed on fol. side. |
| 61 | 3 | K2 | |
| 63 | 3 | K5 | |
| 63 | 4 | Ao | |
| 64 | 3 | F2 | |
| 65 | 6 | A2 | |
| 66 | 3 | K0 | |
| 67 | 3 | K5 | |
| 68 | 5 | A2 | |
| 69 | 2 | G2 | |
| 70 | 1 | K2 | |
| 71 | 5 | K5 | |
| 72 | 2 | K0 | |
| 73 | 2 | Ao | |
| 74 | 4 | K5 | |
| 75 | 2 | K2 | |
| 76 | 2 | K5 | |
| 77 | 5 | G5 | |
| 78 | 1 | A | |
| 79 | 2 | A2 | |
| 80 | 3 | A2 | |
| 81 | 2 | Ao | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 55 | -35° | 3385 | 7 | 6.3 | -35 | 9.2 | 8.3 | ∧ | ✓ |
| 56 | -34° | 3391 | 7 | 6.2 | -34 | 50.2 | 9.0 | ∧ | ✓ |
| 57 | -34° | 3393 | 7 | 6.4 | -34 | 38.2 | 9.6 | ∧ | ✓ |
| 58 | -34° | 3398 | 7 | 6.6 | -34 | 37.8 | 9.7 | ∧ | ✓ |
| 59 | -34° | 3395 | 7 | 6.4 | -34 | 45.2 | 9.0 | ∧ | ✓ |
| 60 | -34° | 3401 | 7 | 6.8 | -34 | 22.5 | 9.7 | ∧ | ✓ -34° 3402 Mag. 9.2 superposed |
| 61 | -33° | 3570 | 7 | 6.9 | -33 | 59.3 | 9.7 | ∧ | ✓ |
| 62 | -33° | 3569 | 7 | 6.8 | -33 | 39.6 | 9.0 | ∧ | ✓ |
| 63 | -34° | 3414 | 7 | 7.8 | -34 | 3.0 | 9.5 | ∧ | ✓ |
| 64 | -34° | 3403 | 7 | 7.0 | -34 | 54.1 | 9.7 | ∧ | ✓ |
| 65 | -34° | 3412 | 7 | 7.7 | -34 | 53.7 | 9.0 | ∧ | ✓ |
| 66 | -34° | 3419 | 7 | 8.2 | -34 | 36.7 | 9.0 | ∧ | ✓ |
| 67 | -34° | 3427 | 7 | 8.6 | -34 | 36.2 | 8.0 | ∧ | ✓ |
| 68 | -34° | 3433 | 7 | 9.1 | -34 | 12.0 | 9.6 | ∧ | ✓ |
| 69 | -33° | 3605 | 7 | 9.0 | -33 | 59.2 | 9.3 | ∧ | ✓ |
| 70 | -34° | 3447 | 7 | 10.2 | -34 | 22.4 | 9.6 | ∧ | ✓ |
| 71 | -34° | 3453 | 7 | 10.6 | -34 | 12.0 | 9.3 | ∧ | ✓ |
| 72 | -33° | 3618 | 7 | 10.1 | -33 | 44.0 | 9.5 | ∧ | ✓ |
| 73 | -33° | 3631 | 7 | 10.9 | -33 | 41.0 | 9.9 | ∧ | ✓ |
| 74 | -33° | 3640 | 7 | 11.6 | -33 | 24.4 | 9.5 | ∧ | ✓ |
| 75 | -33° | 3671 | 7 | 13.0 | -33 | 22.4 | 9.3 | ∧ | ✓ |
| 76 | -33° | 3674 | 7 | 13.2 | -33 | 13.0 | 8.5 | ∧ | ✓ |
| 77 | -33° | 3679 | 7 | 13.6 | -33 | 14.7 | 9.3 | ∧ | ✓ |
| 78 | -33° | 3698 | 7 | 14.8 | -33 | 9.1 | 9.7 | ∧ | ✓ |
| 79 | -33° | 3702 | 7 | 15.1 | -33 | 4.5 | 9.9 | ∧ | ✓ |
| 80 | -32° | 3900 | 7 | 15.6 | -32 | 51.5 | 9.5 | ∧ | ✓ |
| 81 | -33° | 3699 | 7 | 14.8 | -33 | 24.6 ~~35.4~~ | 10 ~~9.4~~ | ∧ | ✓ |

Cards made out

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Tuesday, Jan. 14, 1913.

B 32670 short disp.

| | Hrs. | Int. | Class | Remark |
|---|---|---|---|---|
| 82 | | 1 | Ko | |
| 83 | | 9 | Ao | |
| 84 | | 2 | Ko | The following of two. |
| 85 | | 2 | Ko | |
| 86 | | 2 | Go | |
| 87 | | 4 | Ko | |
| 88 | | 5 | Ko | |
| 89 | | 3 | Ko | |
| 90 | | 3 | Ko | |
| 91 | | 2 | Ko | |
| 92 | | 1 | Ko | |
| 93 | | 5 | A3 | |
| 94 | | 6 | G5 | |
| 95 | | 5 | K | |
| 96 | | 5 | Ao | |
| 97 | | 3 | Ao | |
| 98 | | 2 | Ao | |
| 99 | | 3 | Ao | |
| 100 | | 3 | Ko | |
| 101 | | 3 | K5 | |
| 102 | | 3 | Ao | |
| 103 | | 5 | Ao | |
| 104 | | 3 | K2 | |
| 105 | | 3 | K | |
| 106 | | 3 | Ao | |
| 107 | | 3 | K | |
| 108 | | 2 | Ao | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 82 | −33° | 3697 | 7 | 14.7 | −33 | 35.4 | 9.4 | ∧ | ✓ |
| 83 | −33° | 3707 | 7 | 15.4 | −33 | 22.1 | 8.3 | ∧ | ✓ |
| 84 | −33° | 3719 | 7 | 16.1 | −33 | 37.1 | 9.3 | ∧ | ✓ |
| 85 | −33° | 3737 | 7 | 17.3 | −33 | 31.3 | 9.3 | ∧ | ✓ |
| 86 | −33° | 3741 | 7 | 17.6 | −33 | 53.3 | 9.7 | ∧ | ✓ |
| 87 | −33° | 3746 | 7 | 18.0 | −33 | 51.1 | 9.1 | ∧ | ✓ |
| 88 | −33° | 3751 | 7 | 18.4 | −33 | 39.6 | 9.0 | ∧ | ✓ |
| 89 | −33° | 3750 | 7 | 18.4 | −33 | 48.1 | 9.9 | ∧ | ✓ |
| 90 | −33° | 3756 | 7 | 18.5 | −33 | 47.6 | 9.6 | ∧ | ✓ |
| 91 | −33° | 3767 | 7 | 19.1 | −33 | 47.0 | 9.6 | ∧ | ✓ |
| | | 3769 | 7 | 19.2 | −38 | 52.0 | 96 | | |
| 92 | −33° | 3774 | 7 | 19.5 | −33 | 52.5 | 9.0 | | ✓ |
| 93 | −33° | 3788 | 7 | 20.5 | −33 | 54.8 | 9.6 | ∧ | ✓ |
| 94 | −33° | 3799 | 7 | 21.1 | −33 | 39.4 | 8.7 | ∧ | ✓ |
| 95 | −33° | 3805 | 7 | 21.5 | −33 | 38.0 | 9.5 | ∧ | ✓ |
| 96 | −33° | 3817 | 7 | 22.3 | −33 | 28.8 | 9.7 | ∧ | ✓ |
| 97 | −33° | 3821 | 7 | 22.5 | −33 | 34.2 | 9.7 | ∧ | ✓ |
| 98 | −33° | 3824 | 7 | 22.7 | −33 | 27.8 | 9.9 | ∧ | ✓ |
| 99 | −33° | 3827 | 7 | 22.8 | −33 | 33.2 | 9.6 | ∧ | ✓ |
| 100 | −33° | 3832 | 7 | 23.1 | −33 | 36.9 | 9.0 | ∧ | ✓ |
| 101 | −33° | 3833 | 7 | 23.1 | −33 | 20.8 | 8.5 | ∧ | ✓ |
| 102 | −33° | 3836 | 7 | 23.3 | −33 | 15.3 | 9.7 | ∧ | ✓ |
| 103 | −33° | 3843 | 7 | 23.8 | −33 | 1.0 | 8.9 | ∧ | ✓ |
| 104 | −33° | 3844 | 7 | 23.8 | −33 | 13.7 | 8.9 | ∧ | ✓ |
| 105 | −33° | 3858 | 7 | 24.7 | −33 | 21.7 | 9.3 | ∧ | ✓ |
| 106 | −33° | 3877 | 7 | 25.9 | −33 | 29.0 | 9.3 | ∧ | ✓ |
| 107 | −33° | 3881 | 7 | 26.0 | −33 | 36.7 | 8.5 | ∧ | ✓ |
| 108 | −33° | 3801 | 7 | 21.3 | −33 | 8.3 | 9.3 | ∧ | ✓ |

Cards made out.

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Tuesday, Jan. 14, 1913.

B 20670 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 1 | K0 | |
| 110 | 2 | K2 | |
| 111 | 2 | K2 | |
| 112 | 1 | G0 | |
| 113 | 1 | F0 | |
| 114 | 1 | G5 | |
| 115 | 2 | F0 | |
| 116 | 2 | G0 | |
| 117 | 1 | F8 | |
| 118 | 1 | A | |
| 119 | 4 | F5 | |
| 120 | 1 | G0 | |
| 121 | 2 | K3 | |
| 122 | 3 | K0 | |
| 123 | 1 | K0 | |
| 124 | 5 | A3 | |
| 125 | 5 | G5 | |
| 126 | 2 | A2 | |
| 127 | 3 | K0 | |
| 128 | 3 | A3 | |
| 129 | 5 | A3 | |
| 130 | 2 | A2 | |
| 131 | 4 | K5 | |
| 132 | 3 | F5 | |
| 133 | 7 | K3 | |
| 134 | 3 | F0 | |
| 135 | 3 | F0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 109 | −32° | 3992 | 7 | 20.6 | −32 | 51.1 | 9.3 | ∧ ✓ |
| 110 | −32° | 3985 | 7 | 20.3 | −32 | 50.6 | 8.7 | ∧ ✓ |
| 111 | −33° | 3781 | 7 | 20.0 | −33 | 8.9 | 8.9 | ∧ ✓ |
| 112 | −32° | 3922 | 7 | 16.9 | −32 | 47.1 | 9.5 | ∧ ✓ |
| 113 | −32° | 3920 | 7 | 16.6 | −32 | 40.7 | 9.3 | ∧ ✓ |
| 114 | −35° | 3350 | 7 | 2.6 | −35 | 52.8 | 9.0 | ∧ ✓ |
| 115 | −36° | 3359 | 7 | 2.7 | −36 | 4.8 | 9.4 | ∧ ✓ |
| 116 | −36° | 3356 | 7 | 2.3 | −36 | 29.3 | 9.5 | ∧ ✓ |
| 117 | −36° | 3362 | 7 | 3.2 | −36 | 35.3 | 9.6 | ∧ ✓ |
| 118 | −36° | 3382 | 7 | 5.3 | −36 | 26.2 | 9.7 | ∧ ✓ |
| 119 | −36° | 3385 | 7 | 5.5 | −36 | 28.2 | 9.3 | ∧ ✓ |
| 120 | −36° | 3403 | 7 | 6.7 | −36 | 29.2 | 9.6 | ∧ ✓ |
| 121 | −36° | 3411 | 7 | 7.1 | −36 | 36.2 | 9.5 | ∧ ✓ |
| 122 | −36° | 3417 | 7 | 7.3 | −36 | 22.7 | 9.3 | ∧ ✓ |
| 123 | −36° | 3418 | 7 | 7.6 | −36 | 5.2 | 9.4 | ∧ ✓ |
| 124 | −36° | 3420 | 7 | 7.7 | −36 | 18.0 | 9.5 | ∧ ✓ |
| 125 | −35° | 3398 | 7 | 7.2 | −35 | 25.7 | 9.0 | ∧ ✓ |
| 126 | −35° | 3396 | 7 | 6.8 | −35 | 17.7 | 9.9 | ∧ ✓ |
| 127 | −35° | 3391 | 7 | 6.5 | −35 | 13.2 | 9.2 | ∧ ✓ |
| 128 | −35° | 3411 | 7 | 8.2 | −35 | 11.7 | 9.9 | ∧ ✓ |
| 129 | −35° | 3417 | 7 | 8.6 | −35 | 26.6 | 9.5 | ∧ ✓ |
| 130 | −34° | 3437 | 7 | 9.3 | −34 | 55.0 | 9.7 | ∧ ✓ |
| 131 | −35° | 3426 | 7 | 9.3 | −35 | 6.7 | 8.0 | ∧ ✓ |
| 132 | −35° | 3427 | 7 | 9.3 | −35 | 14.7 | 9.0 | ∧ ✓ |
| 133 | −35° | 3446 | 7 | 10.2 | −35 | 1.7 | 8.3 | ∧ ✓ |
| 134 | −34° | 3452 | 7 | 10.5 | −34 | 48.7 | 9.3 | ∧ ✓ |
| 135 | −35° | 3453 | 7 | 10.5 | −35 | 20.2 | 9.0 | ∧ ✓ |

cards evaded out

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Tuesday, Jan. 14, 1913.

83 20670 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 6 | A0 | |
| 137 | 8 | A3 | |
| 138 | 7 | B8 | |
| 139 | 8 | B8 | |
| 140 | 7 | F5 | |
| 141 | 4 | A3 | |
| 142 | 2 | F0 | |
| 143 | 6 | K0 | |
| 144 | 7 | A2 | |
| 145 | 3 | K0 | Trace tape. |
| 146 | 2 | A | Quarter star of class A superposed very far side. |
| 147 | 5 | F5 | |
| 148 | 7 | B9 | |
| 149 | 2 | A5 | |
| 150 | 3 | G5 | |
| 151 | 1 | G5 | |
| 152 | 2 | K5 | |
| 153 | 6 | F5 | |
| 154 | 8 | A0 | |
| 155 | 3 | A3 | |
| 156 | 4 | F0 | |
| 157 | 3 | F2 | |
| 158 | 1 | K | |
| 159 | 2 | F5 | |
| 160 | 2 | A2 | |
| 161 | 3 | B9 | |
| 162 | 2 | K5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 136 | −35° | 3443 | 7 | 10.2 | −35 | 34.6 | 8.9 | ∧ ✓ |
| 137 | −35° | 3429 | 7 | 9.4 | −35 | 51.7 | 8.7 | ∧ ✓ |
| 138 | −35° | 3442 | 7 | 10.1 | −35 | 56.9 | 8.7 | ∧ ✓ |
| 139 | −36° | 3460 | 7 | 10.4 | −36 | 8.5 | 8.5 | ∧ ✓ |
| 140 | −36° | 3469 | 7 | 11.0 | −36 | 20.1 | 7.7 | ∧ ✓ |
| 141 | −36° | 3456 | 7 | 10.0 | −36 | 36.9 | 9.5 | ∧ ✓ |
| 142 | −36° | 3463 | 7 | 10.6 | −36 | 36.0 | 9.3 | ∧ ✓ |
| 143 | −36° | 3455 | 7 | 9.9 | −36 | 50.0 | 8.7 | ∧ ✓ |
| 144 | −36° | 3461 | 7 | 10.5 | −36 | 46.5 | 8.9 | ∧ ✓ |
| 145 | −37° | 3394 | 7 | 9.5 | −37 | 13.1 | 8.5 | ∧ ✓ |
| 146 | −37° | 3404 | 7 | 10.1 | −37 | 17.4 | 9.5 | ∧ ✓ mags. 10.0 −37° 3405 superpose. |
| 147 | −37° | 3408 | 7 | 10.3 | −37 | 7.4 | 8.9 | ∧ ✓ |
| 148 | −37° | 3412 | 7 | 10.6 | −37 | 3.0 | 8.5 | ∧ ✓ |
| 149 | −37° | 3417 | 7 | 10.9 | −37 | 0.0 | 9.6 | ∧ ✓ |
| 150 | −37° | 3419 | 7 | 10.9 | −37 | 14.4 | 9.4 | ∧ ✓ |
| 151 | −37° | 3416 | 7 | 10.8 | −37 | 20.3 | 9.7 | ∧ ✓ |
| 152 | −37° | 3423 | 7 | 11.1 | −37 | 33.4 | 9.2 | ∧ ✓ |
| 153 | −37° | 3413 | 7 | 10.6 | −37 | 38.7 | 8.5 | ∧ ✓ |
| 154 | −37° | 3418 | 7 | 10.9 | −37 | 48.0 | 8.9 | ∧ ✓ |
| 155 | −37° | 3421 | 7 | 11.0 | −37 | 50.0 | 9.5 | ∧ ✓ |
| 156 | −37° | 3425 | 7 | 11.2 | −37 | 54.2 | 9.3 | ∧ ✓ |
| 157 | −37° | 3403 | 7 | 10.0 | −37 | 57.5 | 9.5 | ∧ ✓ |
| 158 | −37° | 3407 | 7 | 10.1 | −37 | 50.9 | 9.3 | ∧ ✓ |
| 159 | −37° | 3402 | 7 | 10.0 | −37 | 42.0 | 9.9 | ∧ ✓ |
| 160 | −37° | 3392 | 7 | 9.4 | −37 | 34.1 | 9.6 | ∧ ✓ |
| 161 | −37° | 3388 | 7 | 8.8 | −37 | 46.5 | 9.7 | ∧ ✓ |
| 162 | −37° | 3393 | 7 | 9.5 | −37 | 44.0 | 9.3 | ∧ ✓ |

cards on table out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, Jan. 14, 1913.
B 20670 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 163 | 4 | A5 | |
| 164 | 2 | K5 | |
| 165 | 3 | A2 | |
| 166 | 1 | A | |
| 167 | 3 | F0 | |
| 168 | 1 | K2 | |
| 169 | 2 | A3 | |
| 170 | 3 | F8 | |
| 171 | 7 | B9 | |
| 172 | 7 | B9 | |
| 173 | 5 | A5 | |
| 174 | 6 | A0 | |
| 175 | 5 | B9 | |
| 176 | 6 | A2 | |
| 177 | 7 | A5 | |
| 178 | 6 | F5 | |
| 179 | 8 | B9 | |
| 180 | 2 | A5 | |
| 181 | 9 | B8 | |
| 182 | 9 | B8 | |
| 183 | 9 | B8 | |
| 184 | 3 | F5 | |
| 185 | 4 | K0 | |
| 186 | 1 | K0 | |
| 187 | 1 | K0 | |
| 188 | 2 | K0 | |
| 189 | 6 | A0 | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 163 | -36° | 3440 | 7 | 9.1 | -36 | 56.0 | 9.4 | ∧ | ✓ |
| 164 | -36° | 3442 | 7 | 9.2 | -36 | 44.3 | 9.5 | ∧ | ✓ |
| 165 | -36° | 3434 | 7 | 8.6 | -36 | 39.7 | 9.7 | ∧ | ✓ |
| 166 | -36° | 3427 | 7 | 8.3 | -36 | 45.0 | 9.7 | ∧ | ✓ |
| 167 | -35° | 3419 | 7 | 8.9 | -35 | 55.7 | 9.7 | ∧ | ✓ |
| 168 | -36° | 3441 | 7 | 9.1 | -36 | 7.2 | 9.6 | ∧ | ✓ |
| 169 | -36° | 3450 | 7 | 9.7 | -36 | 5.6 | 9.6 | ∧ | ✓ |
| 170 | -36° | 3450 | 7 | 9.7 | -36 | 5.6 | 9.6 | ∧ | ✓ |
| 171 | -35° | 3464 | 7 | 11.1 | -35 | 29.1 | 8.5 | ∧ | ✓ |
| 172 | -35° | 3466 | 7 | 11.4 | -35 | 35.1 | 8.5 | ∧ | ✓ |
| 173 | -35° | 3463 | 7 | 11.1 | -35 | 42.1 | 9.0 | ∧ | ✓ |
| 174 | -35° | 3469 | 7 | 11.7 | -35 | 56.5 | 9.1 | ∧ | ✓ |
| 175 | -35° | 3476 | 7 | 12.0 | -35 | 40.6 | 9.3 | ∧ | ✓ |
| 176 | -36° | 3478 | 7 | 11.8 | -36 | 14.4 | 9.1 | ∧ | ✓ |
| 177 | -36° | 3480 | 7 | 11.9 | -36 | 31.0 | 8.7 | ∧ | ✓ |
| 178 | -36° | 3481 | 7 | 12.0 | -36 | 44.0 | 9.0 | ∧ | ✓ |
| 179 | -36° | 3488 | 7 | 12.7 | -36 | 37.0 | 8.7 | ∧ | ✓ |
| 180 | -36° | 3491 | 7 | 12.9 | -36 | 41.4 | 9.6 | ∧ | ✓ |
| 181 | -36° | 3494 | 7 | 13.0 | -36 | 45.4 | 8.5 | ∧ | ✓ |
| 182 | -36° | 3502 | 7 | 13.5 | -36 | 55.9 | 8.6 | ∧ | ✓ |
| 183 | -36° | 3495 | 7 | 13.1 | -36 | 59.4 | 8.8 | ∧ | ✓ |
| 184 | -37° | 3448 | 7 | 12.9 | -37 | 3.9 | 9.0 | ∧ | ✓ |
| 185 | -37° | 3440 | 7 | 12.4 | -37 | 9.6 | 8.8 | ∧ | ✓ |
| 186 | -37° | 3435 | 7 | 12.1 | -37 | 9.8 | 9.6 | ∧ | ✓ |
| 187 | -37° | 3446 | 7 | 12.8 | -37 | 18.2 | 9.9 | ∧ | ✓ |
| 188 | -37° | 3454 | 7 | 13.5 | -37 | 36.3 | 9.3 | ∧ | ✓ |
| 189 | -37° | 3458 | 7 | 14.0 | -37 | 20.7 | 8.9 | ∧ | ✓ |

-37° 24h60 wings 9.3 superposed.

cards made out

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Tuesday, Jan. 14, 1913.

B2067 short disp.

| | No. | Int. | Class | Remark |
|---|---|---|---|---|
| | 190 | 8 | B5 | |
| | 191 | 8 | A0 | |
| | 192 | 1 | K0 | |
| | 193 | 4 | A3 | |
| | 194 | 3 | G5 | |
| | 195 | 3 | A0 | |
| | 196 | 3 | F0 | |
| | 197 | 1 | K0 | |
| | 198 | 2 | F0 | |
| | 199 | 4 | A5 | |
| Time: 13.35 | 200 | 5 | A0 | |
| Jan. 15. 1913 Time: 9.40 | 201 | 4 | A0 | |
| | 202 | 8 | B9 | |
| | 203 | 3 | K0 | |
| | 204 | 5 | F2 | |
| | 205 | 6 | B8 | |
| | 206 | 2 | A3 | |
| | 207 | 2 | K5 | |
| | 208 | 3 | F0 | |
| | 209 | 3 | A2 | |
| | 210 | 1 | A | |
| | 211 | 2 | A0 | |
| | 212 | 5 | A0 | |
| | 213 | 2 | F0 | |
| | 214 | 1 | G0 | |
| | 215 | 2 | A2 | |
| | 216 | 2 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 190 | -36° | 3521 | 7 | 14.2 | -36 | 59.9 | 8.3 | ∧ ✓ |
| 191 | -37° | 3467 | 7 | 14.8 | -37 | 5.9 | 8.0 | ∧ ✓ |
| 192 | -36° | 3525 | 7 | 14.5 | -36 | 48.9 | 9.4 | ∧ ✓ |
| 193 | -36° | 3529 | 7 | 15.4 | -36 | 45.4 | 9.0 | ∧ ✓ |
| 194 | -36° | 3538 | 7 | 16.1 | -36 | 41.7 | 9.1 | ∧ ✓ |
| 195 | -36° | 3532 | 7 | 15.8 | -36 | 13.3 23.4 | 9.6 | ∧ ✓ |
| 196 | -36° | 3530 | 7 | 15.4 | -36 | 15.0 | 9.6 | ∧ ✓ |
| 197 | -36° | 3528 | 7 | 15.2 | -36 | 17.4 | 9.5 | ∧ ✓ |
| 198 | -36° | 3540 | 7 | 15.4 | -36 | 8.8 | 9.3 | ∧ ✓ |
| 199 | -36° | 3532 | 7 | 15.5 | -36 | 23.4 | 9.5 | ∧ ✓ |
| 200 | -35° | 3520 | 7 | 15.3 | -35 | 53.4 | 9.3 | ∧ ✓ |
| 201 | -35° | 3513 | 7 | 14.9 | -35 | 51.4 53.9 | 9.5 | ∧ ✓ |
| 202 | -35° | 3510 | 7 | 14.7 | -35 | 56.4 | 8.3 | ∧ ✓ |
| 203 | -35° | 3512 | 7 | 14.9 | -35 | 34.0 | 9.0 | ∧ ✓ |
| 204 | -35° | 3498 | 7 | 13.7 | -35 | 36.6 | 8.5 | ∧ ✓ |
| 205 | -35° | 3497 | 7 | 13.6 | -35 | 23.1 | 8.6 | ∧ ✓ |
| 206 | -35° | 3488 | 7 | 12.9 | -35 | 36.5 | 9.5 | ∧ ✓ |
| 207 | -35° | 3492 | 7 | 13.3 | -35 | 54.5 | 8.9 | ∧ ✓ |
| 208 | -36° | 3490 | 7 | 12.8 | -36 | 4.0 | 9.4 | ∧ ✓ |
| 209 | -36° | 3513 | 7 | 13.9 | -36 | 0.0 | 9.1 | ∧ ✓ |
| 210 | -36° | 3507 | 7 | 13.6 | -36 | 17.4 | 10 | ∧ ✓ |
| 211 | -36° | 3500 | 7 | 13.4 | -36 | 15.0 | 9.9 | ∧ ✓ |
| 212 | -35° | 3485 | 7 | 12.7 | -35 | 3.1 | 9.0 | ∧ ✓ |
| 213 | -35° | 3486 | 7 | 12.8 | -35 | 7.6 | 9.7 | ∧ ✓ |
| 214 | -34° | 3502 | 7 | 13.2 | -34 | 55.0 | 10 | ∧ ✓ |
| 215 | -34° | 3500 3498 | 7 | 13.0 13.0 | -34 -34 | 51.9 50.9 | 9.9 9.7 | ✓ |
| 216 | -34° | 3495 | 7 | 12.7 | -34 | 47.6 | 9.0 | ∧ ✓ |

cards made out

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Wednesday Jan 15, 1913.

B 20670 shot disp.

| No. | Int. | Class | Rem. |
|---|---|---|---|
| 217 | 1 | Ko | |
| 218 | 4 | Ko | |
| 219 | 1 | G5 | |
| 220 | 3 | A5 | |
| 221 | 2 | Ao | |
| 222 | 1 | G5 | |
| 223 | 2 | Ao | |
| 224 | 2 | K1 | |
| 225 | 4 | A2 | |
| 226 | 2 | G5 | |
| 227 | 5 | F2 | |
| 228 | 1 | G5 | |
| 229 | 2 | F2 | |
| 230 | 7 | Ao | |
| 231 | 2 | Ao | |
| 232 | 1 | A | |
| 233 | 2 | A2 | |
| 234 | 1 | Ao | |
| 235 | 1 | F5 | |
| 236 | 2 | K2 | |
| 237 | 2 | Ao | |
| 238 | 1 | Ao | |
| 239 | 3 | G0 | |
| 240 | 3 | Ao | |
| 241 | 2 | A | |
| 242 | 2 | G | |
| 243 | 3 | Ao | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 217 | −34° | 3494 | 7 | 12.7 | −34 | 58.6 | 9.5 | ∧ ✓ |
| 218 | −34° | 3497 | 7 | 12.9 | −34 | 57.6 | 8.7 | ∧ ✓ |
| 219 | −35° | 3470 | 7 | 11.7 | −35 | 7.6 | 9.5 | ∧ ✓ |
| 220 | −34° | 3503 | 7 | 13.4 | −34 | 26.1 | 9.5 | ∧ ✓ |
| 221 | −34° | 3511 | 7 | 13.9 | −34 | 13.8 | 9.9 | ∧ ✓ |
| 222 | −34° | 3506 | 7 | 13.5 | −34 | 6.3 | 9.5 | ∧ ✓ |
| 223 | −33° | 3670 | 7 | 13.0 | −33 | 52.0 | 9.7 | ∧ ✓ |
| 224 | −33° | 3667 | 7 | 12.8 | −33 | 56.8 | 9.5 | ∧ ✓ |
| 225 | −34° | 3496 | 7 | 12.8 | −34 | 10.8 | 9.6 | ∧ ✓ |
| 226 | −34° | 3484 | 7 | 12.3 | −34 | 9.8 | 9.6 | ∧ ✓ |
| 227 | −34° | 3473 | 7 | 11.5 | −34 | 30.6 | 8.9 | ∧ ✓ |
| 228 | −34° | 3471 | 7 | 11.3 | −34 | 31.6 | 9.7 | ∧ ✓ |
| 229 | −34° | 3475 | 7 | 11.7 | −34 | 2.8 | 9.9 | ∧ ✓ |
| 230 | −34° | 3474 | 7 | 11.5 | −34 | 6.0 | 8.9 | ∧ ✓ |
| 231 | −34° | 3462 | 7 | 11.0 | −34 | 0.0 | 9.7 | ∧ ✓ |
| 232 | −34° | 3466 | 7 | 11.1 | −34 | 6.4 | 9.9 | ∧ ✓ |
| 233 | −34° | 3421 | 7 | 8.3 | −34 | 52.3 | 9.5 | ∧ ✓ |
| 234 | −34° | 3418 | 7 | 8.1 | −34 | 51.3 | 9.7 | ∧ ✓ |
| 235 | −34° | 3422 | 7 | 8.3 | −34 | 40.7 | 9.7 | ∧ ✓ |
| 236 | −32° | 3843 | 7 | 12.1 | −32 | 40.7 | 9.3 | ∧ ✓ |
| 237 | −32° | 3850 | 7 | 12.7 | −32 | 24.6 | 9.3 | ∧ ✓ |
| 238 | −32° | 3844 | 7 | 12.2 | −32 | 15.6 | 9.7 | ∧ ✓ |
| 239 | −32° | 3887 | 7 | 14.8 | −32 | 35.5 | 9.5 | ∧ ✓ |
| 240 | −32° | 4015 | 7 | 21.6 | −32 | 31.4 | 9.5 | ∧ ✓ |
| 241 | −32° | 4031 | 7 | 22.5 | −32 | 31.9 | 9.7 | ∧ ✓ |
| 242 | −32° | 4080 | 7 | 25.3 | −32 | 40.4 | 9.4 | ∧ ✓ |
| 243 | −33° | 3845 | 7 | 23.9 | −33 | 47.3 | 9.7 | ∧ ✓ |

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Wednesday Jan. 15, 1913.
B 20670 short exp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 244 | 4 | Ao | |
| 245 | 5 | Bg | |
| 246 | 2 | Ao | The southern of two |
| 247 | 4 | F5 | |
| 248 | 2 | A | |
| 249 | 3 | F0 | |
| 250 | 3 | A2 | |
| 251 | 2 | F0 | |
| 252 | 1 | F2 | |
| 253 | 1 | Ao | |
| 254 | 2 | Ao | |
| 255 | 1 | F2 | |
| 256 | 3 | G5 | |
| 257 | 2 | F5 | |
| 258 | 4 | A2 | |
| 259 | 2 | Ao | |
| 260 | 3 | A2 | |
| 261 | 3 | F0 | |
| 262 | 1 | Ao | |
| 263 | 1 | A5 | |
| 264 | 3 | G5 | |
| 265 | 3 | G0 | |
| 266 | 3 | G5 | |
| 267 | 1 | Ao | |
| 268 | 2 | G0 | |
| 269 | 3 | A5 | |
| 270 | 1 | G0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 8631 | 7 | 24.0 | -34 | 41.7 | 9.7 | |
| 244 | -34° | ~~3629~~ | 7 | ~~23.8~~ | ~~-34~~ | ~~5.6~~ | ~~9.7~~ | ✓ |
| 245 | -34° | 3627 | 7 | 23.8 | -34 | 18.1 | 9.5 | ✓ |
| 246 | -34° | 3624 | 7 | 23.5 | -34 | 14.1 | 9.9 | ✓ -34°2625 10.0 Subexposed |
| 247 | -34° | 3619 | 7 | 23.3 | -34 | 38.2 | 9.2 | ✓ |
| 248 | -34° | 3616 | 7 | 22.9 | -34 | 13.1 | 9.9 | ✓ |
| 249 | -34° | 3602 | 7 | 21.8 | -34 | 23.7 | 9.9 | ✓ |
| 250 | -34° | 3578 | 7 | 19.7 | -34 | 38.2 | 9.3 | ✓ |
| 251 | -34° | 3586 | 7 | 20.4 | -34 | 53.0 | 9.0 | ✓ |
| 252 | -35° | 3578 | 7 | 20.1 | -35 | 5.4 | 9.1 | ✓ |
| 253 | -35° | 3556 | 7 | 18.2 | -35 | 15.7 | 9.6 | ✓ |
| 254 | -34° | 3520 | 7 | 14.7 | -34 | 27.2 | 9.8 | ✓ |
| 255 | -34° | 3526 ~~3525~~ | 7 | 15.0 ~~15.0~~ | -34 ~~-34~~ | 7.8 ~~6.8~~ | 9.5 ~~9.5~~ | ✓ |
| 256 | -33° | 3720 | 7 | 16.2 | -33 | 56.9 | 9.5 | ✓ |
| 257 | -34° | 3541 | 7 | 16.2 | -34 | 5.8 | 9.3 | ✓ |
| 258 | -34° | 3553 | 7 | 17.3 | -34 | 7.3 | 9.6 | ✓ |
| 259 | -34° | 3548 | 7 | 16.9 | -34 | 37.1 | 9.7 | ✓ |
| 260 | -34° | 3533 | 7 | 15.7 | -34 | 45.5 | 9.3 | ✓ |
| 261 | -35° | 3527 | 7 | 15.8 | -35 | 14.6 | 8.7 | ✓ |
| 262 | -35° | 3529 | 7 | 15.8 | -35 | 3.1 | 9.7 | ✓ |
| 263 | -35° | 3537 | 7 | 16.7 | -35 | 7.1 | 9.8 | ✓ |
| 264 | -35° | 3540 | 7 | 16.9 | -35 | 3.2 | 9.0 | ✓ |
| 265 | -34° | 3562 | 7 | 18.2 | -34 | 48.7 | 9.8 | ✓ |
| 266 | -35° | 3539 | 7 | 16.8 | -35 | 32.0 | 9.0 | ✓ |
| 267 | -35° | 3544 | 7 | 17.0 | -35 | 33.0 | 9.7 | ✓ |
| 268 | -35° | 3526 | 7 | 15.7 | -35 | 37.5 | 9.5 | ✓ |
| 269 | -35° | 3530 | 7 | 15.9 | -35 | 35.5 | 9.3 | ✓ |
| 270 | -35° | 3531 | 7 | 16.0 | -35 | 44.0 | 9.6 | ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday Jan. 15, 1914.
B 2670 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 271 | 1 | $g_5$ | |
| 272 | 1 | $A_3$ | |
| 273 | 3 | $g_0$ | |
| 274 | 1 | $f_5$ | |
| 275 | 2 | $g_0$ | |
| 276 | 2 | $A_2$ | Partly superposed on 277 |
| 277 | 4 | $f_5$ | |
| 278 | 5 | $f_0$ | |
| 279 | 3 | $K_0$ | |
| 280 | 3 | $f_8$ | |
| 281 | 5 | $f_0$ | |
| 282 | 2 | $A_5$ | |
| 283 | 2 | $A_0$ | |
| 284 | 2 | $A_0$ | |
| 285 | 3 | $g_5$ | |
| 286 | 3 | $A_2$ | |
| 287 | 10+ | $f$ | |
| 288 | 3 | $A_5$ | |
| 289 | 3 | $f_0$ | |
| 290 | 3 | $B_9$ | |
| 291 | 2 | $f_0$ | |
| 292 | 2 | $f_0$ | |
| 293 | 4 | $A_0$ | |
| 294 | 2 | $B_9$ | |
| 295 | 2 | $f_2$ | |
| 296 | 2 | $K_0$ | |
| 297 | 2 | $A_0$ | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 271 | -35° | 3534 | 7 | 16.2 | -35 | 43.5 | 9.6 | ∧ ∨ | |
| 272 | -35° | 3535 | 7 | 16.4 | -35 | 31.0 | 9.9 | ∧ ∨ | |
| 273 | -35° | 3561 | 7 | 18.7 | -35 | 50.4 | 9.2 | ∧ ∨ | |
| 274 | -35° | 3563 (6DD 1220) | 7 | 19.0 | -35 | 51.2 | 10.0 | ∧ ∨ | This star if in GDM is very much out in dec. This is a star at -35° 38.4 and this accounts for the R.A. on plate so concluded that star was not in cat. |
| 275 | -36° | 3579 | 7 | 18.9 | -36 | 1.8 | 9.6 | ∧ | |
| 276 | -35° | 3566 | 7 | 19.1 | -35 | 26.5 | 9.6 | ∧ ∨ | |
| 277 | -35° | 3567 | 7 | 19.2 | -35 | 31.0 | 9.4 | ∧ ∨ | |
| 278 | -36° | 3565 | 7 | 18.1 | -36 | 29.8 | 9.0 | ∧ ∨ | |
| 279 | -36° | 3571 | 7 | 18.3 | -36 | 30.8 | 9.0 | ∧ ∨ | |
| 280 | -37° | 3504 | 7 | 17.5 | -37 | 15.2 (6) 3.8 | 8.9 9.3 | ∧ ∨ | |
| 281 | -36° | 3563 | 7 | 18.0 | -36 | 58.4 | 9.3 | ∧ ∨ | |
| 282 | -36° | 3564 | 7 | 18.1 | -36 | 59.8 | 10 | ∧ ∨ | |
| 283 | -36° | 3592 | 7 | 20.1 | -36 | 38.3 | 9.7 | ∧ ∨ | |
| 284 | -36° | 3591 | 7 | 20.1 | -36 | 21.8 | 9.9 | ∧ ∨ | |
| 285 | -36° | 3598 | 7 | 20.4 | -36 | 38.2 | 9.0 | ∧ ∨ | |
| 286 | -36° | 3600 | 7 | 20.5 | -36 | 44.6 | 9.3 | ∧ ∨ | |
| 287 | -37° | 3588 (49) | 7 | 20.4 | -37 | 3.3 | 6.7 | ∧ ∨ | |
| 288 | -36° | 3605 | 7 | 21.0 | -36 | 31.3 | 9.4 | ∧ ∨ | |
| 289 | -36° | 3612 | 7 | 21.7 | -36 | 15.6 | 9.3 | ∧ ∨ | |
| 290 | -36° | 3615 | 7 | 22.0 | -36 | 10.7 | 9.4 | ∧ ∨ | |
| 291 | -35° | 3595 | 7 | 22.0 | -35 | 55.8 | 9.5 | ∧ ∨ | |
| 292 | -36° | 3616 | 7 | 22.1 | -36 | 4.2 | 9.7 | ∧ ∨ | |
| 293 | -36° | 3614 | 7 | 21.9 | -36 | 21.2 | 9.3 | ∧ ∨ | |
| 294 | -36° | 3602 | 7 | 20.7 | -36 | 0.3 | 9.6 | ∧ ∨ | |
| 295 | -35° | 3581 | 7 | 20.7 | -35 | 28.0 | 9.5 | ∧ ∨ | |
| 296 | -35° | 3588 | 7 | 21.3 | -35 | 42.5 | 9.3 | ∧ ∨ | |
| 297 | -35° | 3587 | 7 | 21.2 | -35 | 8.8 | 9.6 | ∧ ∨ | |

cards made out.

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Wednesday, Jan 15, 1913.
B20870 shot curb.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 298 | 2 | Ko | |
| 299 | 3 | A2 | |
| 300 | 1 | Gs | |
| 301 | 1 | A | |
| 302 | 3 | Gs | |
| 303 | 2 | Ma | |
| 304 | 3 | Ao | |
| 305 | 2 | Go | |
| 306 | 2 | Ks | |
| 307 | 3 | A3 | |
| 308 | 2 | A5 | |
| 309 | 3 | Ko | |
| 310 | 1 | Ks | |
| 311 | 3 | Ao | |
| 312 | 2 | Ks | |
| 313 | 2 | A5 | |
| 314 | 2 | Gs | |
| 315 | 1 | Ko | |
| 316 | 3 | K2 | |
| 317 | 1 | K | |
| 318 | 3 | A | E. |
| 319 | 2 | Ko | |
| 320 | 2 | Ks | |
| 321 | 4 | Ao | |
| 322 | 2 | Ao | |
| 323 | 3 | Ao | |
| 324 | 2 | Ao | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 298 | −35° | 3601 | 7 | 22.4 | −35 | 8.3 | 9.1 | ∧ ∨ | |
| 299 | −35° | 3603 | 7 | 22.6 | −35 | 9.3 | 9.5 | ∧ ∨ | |
| 300 | −35° | 3607 | 7 | 22.9 | −35 | 39.0 | 9.5 | ∧ ∨ | |
| CPD | −35° | 1288 | 7 | 22.5 | −35 | 48.0 | 9.8 | ∨ ∨ | Hot in c Bm. |
| 301 | −35° | 3607 | 7 | 22.6 | −35 | 51.3 | 10 | | |
| 302 | −36° | 3649 | 7 | 24.3 | −36 | 8.2 | 9.1 | ∧ ∨ | |
| 303 | −36° | 3629 | 7 | 22.8 | −36 | 28.2 | 8.7 | ∧ ∨ | |
| 304 | −36° | 3662 | 7 | 25.3 | −36 | 4.2 | 9.3 | ∧ ∨ | |
| 305 | −35° | 3637 | 7 | 25.9 | −35 | 35.6 | 9.5 | ∧ ∨ | |
| 306 | −35° | 3634 | 7 | 25.7 | −35 | 14.0 | 9.1 | ∧ ∨ | |
| 307 | −35° | 3635 | 7 | 25.7 | −35 | 23.1 | 9.4 | ∧ ∨ | |
| 308 | −35° | 3688 | 7 | 26.0 | −35 | 9.0 | 9.7 | ∧ ∨ | |
| 309 | −35° | 3645 | 7 | 26.5 | −35 | 0.0 | 9.0 | ∧ ∨ | |
| 310 | −35° | 3627 | 7 | 24.7 | −35 | 7.5 | 9.0 | ∧ ∨ | |
| 311 | −35° | 3625 | 7 | 24.5 | −35 | 7.0 | 9.7 | ∧ ∨ | |
| 312 | −34° | 3647 | 7 | 25.7 | −34 | 29.2 | 9.3 | ∧ ∨ | |
| 313 | −34° | 3656 | 7 | 26.2 | −34 | 27.7 | 9.9 | ∧ ∨ | |
| 314 | −34° | 3654 | 7 | 26.1 | −34 | 0.6 | 9.3 | ∧ ∨ | |
| 315 | −34° | 3672 | 7 | 26.9 | −34 | 6.1 | 9.7 | ∧ ∨ | |
| 316 | −33° | 3903 | 7 | 27.6 | −33 | 55.9 | 9.0 | ∧ ∨ | |
| 317 | −33° | 3905 | 7 | 27.9 | −33 | 48.7 | 9.7 | ∧ ∨ | 33°99 ob mgn. 9.7 superposed. |
| 318 | −33° | 3908 | 7 | 28.0 | −33 | 9.7 | 9.5 | ∧ ∨ | |
| 319 | −34° | 3686 | 7 | 28.0 | −34 | 24.6 | 9.0 | ∧ ∨ | |
| 320 | −34° | 3693 | 7 | 28.3 | −34 | 19.6 | 9.7 | ∧ ∨ | |
| 321 | −34° | 3691 | 7 | 28.2 | −34 | 24.7 | 9.5 | ∧ ∨ | |
| 322 | −34° | 3717 | 7 | 29.9 | −34 | 39.2 | 9.3 | ∧ ∨ | |
| 323 | −34° | 3727 | 7 | 30.6 | −34 | 45.2 | 9.4 | ∧ ∨ | |
| 324 | −34° | 3741 | 7 | 31.4 | −34 | 59.0 | 9.5 | ∧ ∨ | |

cards made out.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, Jan. 15, 1913.
B3670 chest asp.

| No. | Ext. | Class | Remark |
|---|---|---|---|
| . 325 | 1 | Fo | |
| . 326 | 3 | Go | |
| . 327 | 2 | A | E. |
| . 328 | 2 | F5 | |
| . 329 | 1 | G | |
| . 330 | 2 | Fo | The preceding of two. |
| . 331 | 2 | Go | |
| . 332 | 3 | F5 | |
| . 333 | 2 | F5 | |
| . 334 | 5 | K3 | |
| . 335 | 5 | K3 | |
| . 336 | 2 | A2 | |
| . 337 | 2 | G5 | |
| . 338 | 1 | Fo | |
| . 339 | 2 | G5 | |
| . 340 | 2 | Fo | |
| . 341 | 10+ | A | |
| . 342 | 2 | A | Another star superposed ? |
| . 343 | 6 | Fo | |
| . 344 | 10+ | A | |
| . 345 | 3 | A | |
| . 346 | 5 | A3 | |
| . 347 | 2 | A | Prong to violet subsequent on 346. |
| . 348 | 2 | Ko | |
| . 349 | 3 | A3 | |
| . 350 | 2 | A0 | |
| . 351 | 3 | K2 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 325 | -34° | 3749 | 7 | 32.2 | -34 | 49.1 | 9.3 | ^ ✓ |
| 326 | -34° | 3750 | 7 | 32.4 | -34 | 1.0 | 9.3 | ✓ |
| 327 | -34° | 3748 | 7 | 32.2 | -34 | 0.0 | 9.0 | |
| 327 | -34° | 3761 | 7 | 33.3 | -34 | 15.4 | 9.3 | ^ ✓ |
| 328 | -35° | 3654 | 7 | 27.3 | -35 | 15.5 | 10 | ^ ✓ |
| 329 | -35° | 3653 | 7 | 27.2 | -35 | 16.0 | 9.5 | ^ ✓ |
| 330 | -35° | 3681 | 7 | 27.9 | -35 | 18.0 | 9.3 | ^ ✓ |
| 331 | -35° | 3711 | 7 | 31.1 | -35 | 32.1 | 9.4 | ^ ✓ |
| 332 | -36° | 3689 | 7 | 27.2 | -36 | 35.4 | 8.6 | ^ ✓ |
| 333 | -36° | 3690 | 7 | 27.2 | -36 | 40.0 | 9.1 | ^ ✓ |
| 334 | -36° | 3691 | 7 | 27.4 | -36 | 48.9 | 9.3 | ^ ✓ |
| 335 | -36° | 3699 | 7 | 28.0 | -36 | 49.9 | 9.3 | ^ ✓ |
| 336 | -36° | 3694 | 7 | 27.6 | -36 | 40.6 | 9.7 | ^ ✓ |
| 337 | -36° | 3704 | 7 | 28.3 | -36 | 32.8 | 9.6 | ^ ✓ |
| 338 | -36° | 3702 | 7 | 28.2 | -36 | 22.4 | 9.5 | ^ ✓ |
| 339 | -36° | 3710 | 7 | 29.0 | -36 | 38.9 | 9.6 | ^ ✓ |
| 340 | -37° | 3658 | 7 | 27.8 | -37 | 18.6 | 9.2 | ^ ✓ |
| 341 | -37° | 3680 | 7 | 29.6 | -37 | 2.9 | 8.0 | ^ ✓ |
| 342 | -37° | 3685 | 7 | 29.9 | -37 | 23.6 | 9.8 | ^ ✓ |
| 343 | -37° | 3699 | 7 | 31.0 | -37 | 8.6 | 8.3 | ^ ✓ |
| 344 | -37° | 3709 | 7 | 31.5 | -37 | 9.8 | 7.5 | ^ ✓ |
| 345 | -36° | 3739 | 7 | 31.6 | -36 | 21.8 | 9.4 | ✓ |
| | | 3736 | 7 | 31.5 | -36 | 22.8 | 9.6 | |
| 346 | -37° | 3443 | 7 | 12.5 | -37 | 52.8 | 9.0 | ^ ✓ |
| 347 | -37° | 3442 | 7 | 12.5 | -37 | 48.3 | 9.6 | ^ ✓ |
| 348 | -38° | 3285 | 7 | 12.0 | -38 | 4.4 | 9.5 | ^ ✓ |
| 349 | -38 | 3296 | 7 | 12.6 | -38 | 2.1 | 9.5 | ^ ✓ |
| 350 | -37° | 3457 | 7 | 14.0 | -37 | 57.0 | 9.5 | ^ ✓ |
| 351 | -38° | 3308 | 7 | 14.3 | -38 | 16.2 | 9.1 | ^ ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, Jan. 15, 1913.
B 2067 0 slant disp.

| No. | Int. | Class | Remark. |
|---|---|---|---|
| 352 | 8 | K0 | |
| 353 | 4 | A3 | |
| 354 | 10 | B8 | |
| 355 | 9 | A | Partly superposed on 354 |
| 356 | 3 | A0 | |
| 357 | 7 | A0 | |
| 358 | 3 | F0 | |
| 359 | 1 | K0 | |
| 360 | 4 | F5 | |
| 361 | 3 | B5 | |
| 362 | 5 | B9 | |
| 363 | 3 | A0 | |
| 364 | 4 | A5 | |
| 365 | 1 | G5 | |
| 366 | 2 | F0 | |
| 367 | 4 | B9 | |
| 368 | 4 | B8 | |
| 369 | 3 | A0 | |
| 370 | 1 | A | |
| 371 | 2 | K0 | Another star superposed ? |
| 372 | 5 | B9 | |
| 373 | 4 | A2 | Another star superposed at south |
| 374 | 1 | K5 | |
| 375 | 4 | B8 | |
| 376 | 1 | F5 | |
| 377 | 2 | A2 | |
| 378 | 1 | A5 | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 352 | -37° | 3466 | 7 | 14.8 | -37 | 48.0 | 7.3 | ↑ ✓ | |
| 353 | -37° | 3465 | 7 | 14.8 | -37 | 26.2 | 9.7 | ↑ ✓ | |
| 354 | -37° | 3470 | 7 | 15.1 | -37 | 16.2 | 8.0 | ↑ ✓ | |
| 355 | -37° | 3473 | 7 | 15.2 | -37 | 19.2 | 9.7 | ↑ ✓ | |
| 356 | -37° | 3472 | 7 | 15.1 | -37 | 35.1 | 9.6 | ↑ ✓ | |
| 357 | -37° | 3478 | 7 | 15.3 | -37 | 35.1 | 8.5 | ↑ ✓ | |
| 358 | -37° | 3482 | 7 | 15.8 | -37 | 29.2 | 9.6 | ↑ ✓ | |
| 359 | -37° | 3471 | 7 | 15.1 | -37 | 54.1 | 9.3 | ↑ ✓ | |
| 360 | -38° | 3326 | 7 | 15.6 | -38 | 8.9 | 9.4 | ↑ ✓ | |
| 361 | -38° | 3320 | 7 | 15.2 | -38 | 14.0 | 9.4 | ↑ ✓ | |
| 362 | -38° | 3327 | 7 | 15.3 | -38 | 21.7 | 9.3 | ↑ ✓ | |
| 363 | -37° | 3485 | 7 | 15.9 | -37 | 57.5 | 9.6 | ↑ ✓ | |
| 364 | -38° | 3332 | 7 | 16.5 | -38 | 7.9 | 9.2 | ↑ ✓ | |
| 365 | -38° | 3333 | 7 | 16.6 | -38 | 3.9 | 9.6 | ↑ ✓ | |
| 366 | -38° | 3334 | 7 | 16.7 | -38 | 1.0 | 9.7 | ↑ ✓ | |
| 367 | -38° | 3341 | 7 | 17.2 | -38 | 3.5 | 9.3 | ↑ ✓ | |
| 368 | -37° | 3508 | 7 | 17.7 | -37 | 41.5 | 8.7 | ↑ ✓ | |
| 369 | -37° | 3501 | 7 | 17.1 | -37 | 34.1 | 9.5 | ↑ ✓ | |
| 370 | -37° | 3498 | 7 | 17.1 | -37 | 40.0 | 10 | ↑ ✓ | |
| 371 | -37° | 3499 | 7 | 17.1 | -37 | 11.6 | 9.7 | ↑ ✓ | mags. 8.8. -37° 3497 superpos. |
| 372 | -37° | 3504 | 7 | 17.5 | -37 | 15.2 | 8.9 | ↑ ✓ | |
| 373 | -37° | 3509 | 7 | 17.7 | -37 | 29.2 | 9.1 | ↑ ✓ | mags. 8.9 -37° 3511 superpos. |
| 374 | -37° | 3523 | 7 | 18.8 | -37 | 31.6 | 9.6 | ↑ ✓ | |
| 375 | -37° | 3536 | 7 | 19.3 | -37 | 22.8 | 9.5 | ↑ ✓ | |
| 376 | -37° | 3531 | 7 | 19.2 | -37 | 35.0 | 9.8 | ↑ ✓ | |
| 377 | -38° | 3350 | 7 | 18.5 | -38 | 7.5 | 9.4 | ↑ ✓ | |
| 378 | -38° | 3351 | 7 | 18.8 | -38 | 6.0 | 9.4 | ↑ ✓ | |

Cards made out.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, Jan. 15, 1913.
B 20670 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 379 | 2 | F0 | |
| 380 | 1 | A0 | |
| 381 | 2 | F5 | |
| 382 | 1 | K5 | |
| 383 | 4 | K5 | $-38° \frac{3367}{2367}$ superposed and probably same class |
| 384 | 3 | A0 | |
| 385 | 4 | A2 | |
| 386 | 8 | B8 | |
| 387 | 2 | A | Nearly all superposed on 388. |
| 388 | 3 | A0 | |
| 389 | 2 | G5 | |
| 390 | 5 | B9 | |
| 391 | 3 | F5 | |
| 392 | 1 | K5 | |
| 393 | 2 | F | |
| 394 | 5 | A0 | |
| 395 | 2 | F0 | |
| 396 | 9 | F8 | |
| 397 | 2 | A0 | |
| 398 | 2 | F8 | |
| 399 | 4 | A0 | |
| 400 | 4 | F5 | |
| 401 | 3 | K0 | |
| 402 | 2 | K2 | |
| 403 | 2 | K0 | |
| 404 | 2 | K5 | |
| 405 | 2 | F5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 379 | −38° | 3355 | 7 | 19.1 | −38 | 3.1 | 9.7 | ∧ ✓ |
| 380 | −38° | 3358 | 7 | 19.7 | −38 | 33.3 | 9.7 | ∧ ✓ |
| 381 | −38° | 3362 | 7 | 19.9 | −38 | 57.0 | 9.7 | ∧ ✓ |
| 382 | −38° | 3291 | 7 | 20.1 | −38 | 2.2 | 9.4 | ∧ ✓ |
| 383 | −38° | 3365 / ~~2367~~ | 7 | ~~20.6~~ | −38 | 6.7 | 9.1 / ~~9.1~~ | ∧ ✓ −38° 2367 superposed |
| 384 | −37° | 3565 | 7 | 21.1 | −37 | 51.9 | 9.6 | ∧ ✓ |
| 385 | −37° | 3568 | 7 | 21.4 | −37 | 57.9 | 9.3 | ∧ ✓ |
| 386 | −37° | 3569 | 7 | 21.5 | −37 | 53.6 | 8.5 | ∧ ✓ |
| 387 | −37° | 3561 | 7 | 21.0 | −37 | 24.0 | 10 | ∧ ✓ |
| 388 | −37° | 3560 | 7 | 20.9 | −37 | 27.3 | 9.3 | ∧ ✓ |
| 389 | −37° | 3576 | 7 | 21.9 | −37 | 23.6 | 9.5 | ∧ ✓ |
| 390 | −37° | 3591 | 7 | 23.2 | −37 | 16.7 | 9.2 | ∧ ✓ |
| 391 | −37° | 3596 | 7 | 23.7 | −37 | 44.2 | 9.5 | ∧ ✓ |
| 392 | −37° | 3583 | 7 | 22.5 | −37 | 50.9 | 9.5 | ∧ ✓ |
| 393 | −38° | 3388 | 7 | 23.2 | −38 | 3.5 | 9.4 | ∧ ✓ |
| 394 | −38° | 3397 | 7 | 24.4 | −38 | 7.8 | 9.0 | ∧ ✓ |
| 395 | −37° | 3609 | 7 | 24.8 | −37 | 33.0 | 9.6 | ∧ ✓ |
| 396 | −37° | 3616 | 7 | 25.1 | −37 | 51.8 | 9.5 | ∧ ✓ |
| 397 | −37° | 3624 | 7 | 25.4 | −37 | 48.8 | 9.8 | ∧ ✓ |
| 398 | −37° | 3627 | 7 | 25.7 | −37 | 38.2 | 9.5 | ∧ ✓ |
| 399 | −37° | 3629 | 7 | 25.9 | −37 | 35.3 | 9.6 | ∧ ✓ |
| 400 | −37° | 3635 | 7 | 26.2 | −37 | 37.9 | 9.2 | ∧ ✓ |
| 401 | −36° | 3639 | 7 | 23.5 | −36 | 45.3 | 9.0 | ∧ ✓ |
| 402 | −36° | 3647 | 7 | 24.0 | −36 | 39.9 | 9.1 | ∧ ✓ |
| 403 | −36° | 3648 | 7 | 24.1 | −36 | 56.3 | 9.5 | ∧ ✓ |
| 404 | −37° | 3612 | 7 | 24.9 | −37 | 1.2 | 9.0 | ∧ ✓ |
| 405 | −36° | 3665 | 7 | 25.7 | −36 | 35.2 | 9.4 | ∧ ✓ |

Cards made out.

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Wednesday, Jan 15, 1913.
73206 70 clear disp.

| | No. | Int. | Class | Remark |
|---|---|---|---|---|
| | 406 | 3 | F5 | |
| | 407 | 2 | A | |
| | 408 | 2 | K2 | |
| | 409 | 3 | F5 | |
| | 410 | 3 | A | E. |
| | 411 | 2 | A | E. |
| | 412 | 1 | A | E. |
| | 413 | 2 | kp | |
| | 414 | 2 | k | E. |
| | 415 | 2 | A0 | |
| | 416 | 2 | K0 | |
| | 417 | 1 | K0 | |
| | 418 | 2 | kp | |
| | 419 | 1 | F8 | |
| | 420 | 1 | ma | |
| 16.25 | 421 | 1 | K0 | |
| 11.14 | 422 | 3 | k5 | |
| | 423 | 2 | K0 | |
| | 424 | 2 | k5 | |
| | 425 | 3 | F0 | |
| | 426 | 2 | A0 | |
| | 427 | 3 | K0 | |
| | 428 | 3 | A0 | |
| | 429 | 1 | K5 | |
| | 430 | 2 | F5 | |
| | 431 | 1 | K0 | |
| | 432 | 1 | A | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 406 | -38° | 3427 | 7 | 26.8 | -38 | 7.4 | 9.8 | ∧ | ✓ |
| 407 | -38° | 3406 | 7 | 26.4 | -38 | 11.7 | 9.7 | ∧ | ✓ |
| 408 | -38° | 3415 | 7 | 26.1 | -38 | 21.1 | 9.4 | ∧ | ✓ |
| 409 | -38° | 3421 | 7 | 26.5 | -38 | 27.7 | 9.6 | ∧ | ✓ |
| 410 | -38° | 3454 | 7 | 29.3 | -38 | 27.1 | 9.7 | ∧ | ✓ |
| 411 | -39° | 3377 | 7 | 27.5 | -39 | 5.6 | 9.0 | ∧ | ✓ |
| 412 | -39° | 3409 | 7 | 29.8 | -39 | 24.7 | 9.3 | ∧ | ✓ |
| 413 | -39° | 3362 | 7 | 26.4 | -39 | 36.9 | 9.0 | ∧ | ✓ |
| 414 | -39° | 3365 | 7 | 27.0 | -39 | 45.9 | 9.1 | ∧ | ✓ |
| 415 | -40° | 3180 | 7 | 25.4 | -40 | 2.0 | 9.1 | ∧ | ✓ |
| 416 | -40° | 3177 | 7 | 25.1 | -40 | 10.6 | 9.0 | ∧ | ✓ |
| 417 | -36° | 3297 | 7/6 | 56.5 | -36 | 59.8 | 9.1 | ∧ | ✓ |
| 418 | -36° | 3307 | 7/6 | 57.1 | -36 | 59.3 | 9.0 | ∧ | ✓ |
| 419 | -36° | 3315 | 6 | 57.5 | -36 | 43.4 | 9.2 | ∧ | ✓ |
| 420 | -36° | 3325 | 6 | 58.7 | -36 | 19.8 | 8.7 | ∧ | ✓ |
| 421 | -36° | 3330 | 6 | 59.6 | -36 | 11.8 | 9.4 | ∧ | ✓ |
| 422 | -35° | 3326 | 7 | 0.0 | -35 | 47.7 | 8.9 | ∧ | ✓ |
| 423 | -35° | 3339 | 7 | 1.4 | -35 | 31.7 | 9.1 | ∧ | ✓ |
| 424 | -36° | 3335 | 7 | 0.3 | -36 | 32.8 | 9.3 | ∧ | ✓ |
| 425 | -37° | 3287 | 7 | 0.5 | -37 | 18.6 | 9.5 | ∧ | ✓ |
| 426 | -37° | 3291 | 7 | 0.7 | -37 | 14.4 | 9.6 | ∧ | ✓ |
| 427 | -37° | 3294 | 7 | 0.9 | -37 | 47.4 | 9.6 | ∧ | ✓ |
| 428 | -37° | 3299 | 7 | 1.2 | -37 | 39.5 | 9.8 | ∧ | ✓ |
| 429 | -37° | 3247 | 6 | 57.7 | -37 | 16.1 | 9.2 | ∧ | ✓ |
| 430 | -38° | 3120 | 6 | 59.1 | -38 | 6.3 | 9.6 | ∧ | ✓ |
| 431 | -38° | 3131 | 6 | 59.7 | -38 | 5.6 | 9.5 | ∧ | ✓ |
| 432 | -38° | 3136 | 7 | 0.2 | -38 | 2.0 | 9.9 | ∧ | ✓ |

-38° 3137 magn. 10.0 superposed.

cards made out

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Wednesday, Jan. 15, 1913.

B 2079 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 433 | 1 | A | |
| 434 | 1 | F0 | |
| 435 | 1 | G5 | |
| 436 | 3 | A2 | |
| 437 | 3 | F0 | |
| 438 | 2 | F2 | |
| 439 | 1 | A | |
| 440 | 2 | F0 | |
| 441 | 2 | G5 | The southern of two. |
| 442 | 3 | K5 | |
| 443 | 2 | G0 | |
| 444 | 1 | F0 | |
| 445 | 2 | F | |
| 446 | 10+ | | Completely burned out. |
| 447 | 1 | G | The southern of two. |
| 448 | 1 | F0 | |
| 449 | 3 | F3 | |
| 450 | 2 | F5 | |
| 451 | 2 | F5 | |
| 452 | 1 | F0 | |
| 453 | 1 | F5 | |
| 454 | 1 | A | |
| 455 | 1 | A | |
| 456 | 1 | F0 | |
| 457 | 3 | G5 | Time 11h22 |
| 458 | | | |
| 459 | | | |

cont. on pg 212



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 433 | -38° | 3119 | 6 | 59.0 | -38 | 27.1 | 9.9 | 1 ✓ |
| 434 | -38° | 3133 | 6 | 59.9 | -38 | 22.0 | 9.6 | 1 ✓ |
| 435 | -38° | 3145 | 7 | 0.7 | -38 | 52.3 | 9.4 | 1 ✓ |
| 436 | -38° | 3177 | 7 | 2.8 | -38 | 41.3 | 9.6 | 1 ✓ |
| 437 | -38° | 3184 | 7 | 3.3 | -38 | 35.2 | 9.3 | 1 ✓ |
| 438 | -38° | 3192 | 7 | 3.7 | -38 | 52.2 | 9.5 | 1 ✓ |
| 439 | -39° | 3082 | 7 | 2.8 | -39 | 9.3 | 9.5 | 1 ✓ |
| 440 | -39° | 3087 | 7 | 3.5 | -39 | 3.0 | 9.5 | 1 ✓ |
| 441 | -38° | 3221 | 7 | 6.2 | -38 | 56.2 | 9.7 | 1 ✓ -38° 3220 Magn. 10.0 superposed |
| 442 | -38° | 3241 | 7 | 7.9 | -38 | 35.0 | 9.1 | 1 ✓ |
| 443 | -38° | 3216 | 7 | 6.0 | -38 | 3.2 | 9.6 | 1 ✓ |
| 444 | -38° | 3225 | 7 | 6.4 | -38 | 2.9 | 9.7 | 1 ✓ |
| 445 | -39° | 3059 | 7 | 0.9 | -39 | 35.2 | 9.3 | 1 ✓ |
| 446 | -39° | 3105 | 7 | 4.7 | -39 | 27.3 | 5.3 | 1 ✓ |
| 447 | -39° | 3167 | 7 | 9.2 | -39 | 19.4 | 9.6 | 1 ✓ -39° 3168 Magn. 9.3 Superposed |
| 448 | -39° | 3184 | 7 | 10.4 | -39 | 25.2 | 9.3 | 1 ✓ |
| 449 | -38° | 3271 | 7 | 10.8 | -38 | 21.6 | 9.0 | 1 ✓ |
| 450 | -38° | 3331 | 7 | 16.5 | -38 | 47.0 | 9.3 | 1 ✓ |
| 451 | -38° | 3337 | 7 | 17.0 | -38 | 58.6 | 9.6 | 1 ✓ |
| 452 | -39° | 3251 | 7 | 16.4 | -39 | 16.2 | 9.7 | 1 ✓ |
| 453 | -40° | 3097 | 7 | 17.3 | -40 | 5.1 | 9.1 | 1 ✓ |
| 454 | -40° | 3057 | 7 | 14.0 | -40 | 16.5 | 9.6 | 1 ✓ |
| 455 | -40° | 3141 | 7 | 21.7 | -40 | 5.0 | 9.7 | 1 ✓ |
| 456 | -39° | 3287 | 7 | 19.9 | -39 | 48.0 | 9.5 | 1 ✓ |
| 457 | -37° | 3735 | 7 | 33.3 | -37 | 40.4 | 9.1 | 1 ✓ |
| 458 | on Page 212 | | | | | | | |
| 459 | | | | | | | | |

Carls made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Saturday, Janv. 18, 1913.

Time: 10:20

B206 53 short disp.

| No | Int. | Class | Remarks |
|---|---|---|---|
| 1 | 2 | No | E. |
| 2 | 2 | As | Focus very poor. E. |
| 3 | 1 | No | E. |
| 4 | 3 | ly | E. |
| 5 | 1 | ly | E. |
| 6 | 1 | No | E. |
| 7 | 2 | ly | E. |
| 8 | 2 | No | E. |
| 9 | 3 | lyn | E. |
| 10 | 1 | No | E. |
| 11 | 2 | No | E. |
| 12 | 2 | ly | E. |
| 13 | 2 | ly | E. |
| 14 | 2 | N2 | |
| 15 | 3 | N5 | |
| 16 | 4 | N5 | |
| 17 | 1 | No | |
| 18 | 3 | N2 | |
| 19 | 6 | lyn | |
| 20 | 3 | ly5 | |
| 21 | 3 | No | |
| 22 | 2 | 71 | |
| 23 | 6 | N0 | |
| 24 | 3 | As | |
| 25 | 10+ | ly | Burned out |
| 26 | 3 | ly5 | |
| 27 | 2 | A | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | −74° | 350 | 5′ | 46.9 | −74 | 56.6 | 9.3 |
| 2 | −75° | 342 | 5′ | 50.1 | −75 | 19.1 | 9.3 |
| 3 | −75° | 343 | 5′ | 50.5 | −75 | 21.8 | 9.5 |
| 4 | −75° | 336 | 5′ | 47.5 | −75 | 34.4 | 9.3 |
| 5 | −75° | 340 | 5′ | 48.9 | −75 | 50.1 | 9.4 |
| 6 | −75° | 341 | 5′ | 50.0 | −75 | 48.2 | 9.5 |
| 7 | −76° | 349 | 5′ | 46.4 | −76 | 7.4 | 9.2 |
| 8 | −76° | 338 | 5′ | 40.8 | −76 | 32.8 | 9.5 |
| 9 | −76° | 344 | 5′ | 43.9 | −76 | 21.4 | 9.3 |
| 10 | −76° | 336 | 5′ | 38.4 | −76 | 50.6 | 9.6 |
| 11 | −77° | 207 | 5′ | 37.2 | −77 | 3.0 | 9.6 |
| 12 | −76° | 337 | 5′ | 38.6 | −76 | 58.0 | 9.5 |
| 13 | −77° | 212 | 5′ | 47.4 | −77 | 20.3 | 9.4 |
| 14 | −77° | 216 | 5′ | 50.4 | −77 | 28.2 | 9.5 |
| 15 | −77° | 215 | 5′ | 48.8 | −77 | 29.8 | 9.3 |
| 16 | −76° | 357 | 5′ | 53.8 | −76 | 34.0 | 9.4 |
| 17 | −76° | 361 | 5′ | 58.8 | −76 | 1.3 | 9.6 |
| 18 | −76° | 363 | 6′ | 0.4 | −76 | 1.6 | 9.4 |
| 19 | −76° | 364 | 6′ | 0.9 | −76 | 5.9 | 9.0 |
| 20 | −75° | 359 | 6′ | 2.5 | −75 | 59.8 | 9.4 |
| 21 | −75° | 355 | 6′ | 1.4 | −75 | 42.8 | 9.3 |
| 22 | −75° | 361 | 6′ | 3.0 | −75 | 23.6 | 9.4 |
| 23 | −75° | 362 | 6′ | 3.0 | −75 | 9.7 | 8.7 |
| 24 | −74° | 372 | 6′ | 12.6 | −74 | 49.1 | 9.4 |
| 25 | −74° | 374 | 6′ | 14.0 | −74 | 42.7 | 5.9 |
| 26 | −74° | 376 | 6′ | 15.6 | −74 | 28.2 | 8.9 |
| 27 | −74° | 377 | 6′ | 17.2 | −74 | 14.9 | 9.3 |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Saturday, Jan. 18, 1913.
B 2665 shot misfs.

| No. | Fat. | Class | Remark |
|---|---|---|---|
| 28 | 7 | $f_5$ | |
| 29 | 2 | $K_0$ | |
| 30 | 2 | $A_5$ | |
| 31 | 4 | $K_0$ | |
| 32 | 1 | $F_8$ | |
| 33 | 7 | $K_0$ | |
| 34 | 3 | $K_0$ | |
| 35 | 5 | $F_5$ | |
| 36 | 4 | $F_5$ | |
| 37 | 7 | $f_5$ | |
| 38 | 1 | A | Partly superposed on 39. |
| 39 | 2 | $f_5$ | |
| 40 | 6 | $f_5$ | |
| 41 | 2 | $K_0$ | |
| 42 | 7 | $A_5$ | |
| 43 | 4 | $K_0$ | |
| 44 | 2 | $F_0$ | |
| 45 | 1 | $F_8$ | |
| 46 | 1 | $K_0$ | |
| 47 | 2 | $K_0$ | |
| 48 | 4 | $K_0$ | |
| 49 | 10 | $A_0$ | |
| 50 | 4 | $A_0$ | |
| 51 | 1 | $K_0$ | |
| 52 | 3 | $k_0$ | |
| 53 | 2 | $F_8$ | |
| 54 | 10 | $F_5$ | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 28 | −75° | 368 | 6′ | 16.0 − 75′ | 2.6 | 7.8 ✓ |
| 29 | −75° | 372 | 6′ | 19.1 − 75′ | 7.0 | 9.4 ✓ |
| 30 | −75° | 373 | 6′ | 19.6 − 75′ | 11.9 | 9.4 ✓ |
| 31 | −75° | 374 | 6′ | 23.2 − 75′ | 9.6 | 8.9 ✓ |
| 32 | −75° | 376 | 6′ | 25.3 − 75′ | 3.4 | 7.9 ✓ |
| 33 | −75° | 375 | 6′ | 23.8 − 75′ | 38.0 | 8.3 ✓ |
| 34 | −75° | 369 | 6′ | 17.2 − 75′ | 44.5 | 9.2 ✓ |
| 35 | −75° | 370 | 6′ | 17.4 − 75′ | 52.9 | 8.4 ✓ |
| 36 | −75° | 371 | 6′ | 17.6 − 75′ | 54.8 | 8.5 ✓ |
| 37 | −76° | 384 | 6′ | 20.2 − 76′ | 8.7 | 8.3 ✓ |
| 38 | −76° | 385 | 6′ | 21.3 − 76′ | 33.0 | 9.5 ✓ |
| 39 | −76° | 386 | 6′ | 21.5 − 76′ | 34.7 | 9.2 ✓ |
| 40 | −76° | 387 | 6′ | 23.3 − 76′ | 34.8 | 8.6 ✓ |
| 41 | −76° | 388 | 6′ | 24.3 − 76′ | 40.0 | 9.4 ✓ |
| 42 | −77° | 250 | 6′ | 20.8 − 77′ | 0.0 | 8.1 ✓ |
| 43 | −77° | 251 | 6′ | 22.7 − 77′ | 2.7 | 8.8 ✓ |
| 44 | −77° | 253 | 6′ | 24.9 − 77′ | 15.8 | 8.8 ✓ |
| 45 | −77° | 254 | 6′ | 26.3 − 77′ | 16.8 | 9.6 ✓ |
| 46 | −77° | 255 | 6′ | 26.7 − 77′ | 14.8 | 9.6 ✓ |
| 47 | −76° | 390 | 6′ | 28.3 − 76′ | 41.2 | 9.5 ✓ |
| 48 | −76° | 392 | 6′ | 31.1 − 76′ | 55.0 | 9.3 ✓ |
| 49 | −77° | 258 | 6′ | 34.0 − 77′ | 11.9 | 7.1 ✓ |
| 50 | −77° | 262 | 6′ | 36.0 − 77′ | 5.6 | 9.0 ✓ |
| 51 | −77° | 260 | 6′ | 35.1 − 77′ | 22.0 | 9.5 ✓ |
| 52 | −77° | 263 | 6′ | 36.4 − 77′ | 31.5 | 9.3 ✓ |
| 53 | −77° | 266 | 6′ | 39.3 − 77′ | 29.1 | 9.4 ✓ |
| 54 | −77° | 270 | 6′ | 40.2 − 77′ | 34.4 | 7.5 ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Saturday, June 15, 1913.

B 20652 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 4 | M6 | |
| 56 | 4 | K5 | |
| 57 | 5 | F8 | |
| 58 | 5 | K0 | |
| 59 | 2 | K5 | |
| 60 | 1 | F5 | |
| 61 | 10 | K5 | |
| 62 | 2 | K5 | |
| 63 | 2 | K0 | |
| 64 | 3 | F5 | |
| 65 | 2 | M0 | |
| 66 | 2 | K5 | |
| 67 | 5 | K0 | |
| 68 | 2 | K0 | |
| 69 | 2 | F8 | |
| 70 | 4 | K0 | |
| 71 | 5 | F0 | |
| 72 | 3 | K0 | |
| 73 | 3 | F5 | |
| 74 | 6 | A2 | |
| 75 | 2 | K0 | |
| 76 | 4 | K5 | |
| 77 | 2 | F5 | |
| 78 | 2 | K0 | |
| 79 | 3 | K2 | |
| 80 | 3 | K0 | |
| 81 | 5 | F2 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | -77° | 272 | 6 | 43.6 | -77 | 25.0 | 9.1 | ✓ |
| 56 | -77° | 271 | 6 | 43.1 | -77 | 33.6 | 9.1 | ✓ |
| 57 | -77° | 275 | 6 | 46.8 | -77 | 26.7 | 8.9 | ✓ |
| 58 | -77° | 280 288 | 6 | ~~50.0~~ 43.6 | -77 | ~~6.4~~ 26.0 | ~~8.8~~ 9.1 | ✓ |
| 59 | -76° | 419 | 6 | 50.2 | -76 | 54.7 | 9.4 | ✓ |
| 60 | -76° | 418 | 6 | 49.8 | -76 | 46.7 | 9.4 | ✓ |
| 61 | -76° | 422 | 6 | 52.6 | -76 | 42.0 | 8.5 | ✓ |
| 62 | -76° | 391 | 6 | 30.5 | -76 | 20.5 | 9.5 | ✓ |
| 63 | -76° | 393 | 6 | 31.8 | -76 | 35.1 | 9.5 | ✓ |
| 64 | -76° | 395 | 6 | 32.6 | -76 | 38.7 | 9.3 | ✓ |
| 65 | -76° | 400 | 6 | 34.8 | -76 | 40.9 | 9.4 | ✓ |
| 66 | -76° | 401 | 6 | 35.1 | -76 | 20.6 | 9.2 | ✓ |
| 67 | -76° | 402 | 6 | 35.4 | -76 | 6.1 | 8.9 | ✓ |
| 68 | -76° | 398 | 6 | 33.8 | -76 | 2.0 | 9.3 | ✓ |
| 69 | -76° | 396 | 6 | 33.4 | -76 | 0.0 | 9.4 | ✓ |
| 70 | -75° | 393 | 6 | 39.9 | -75 | 42.7 | 9.0 | ✓ |
| 71 | -75° | 395 | 6 | 40.2 | -75 | 40.8 | 8.8 | ✓ |
| 72 | -75° | 396 | 6 | 40.9 | -75 | 32.9 | 9.2 | ✓ |
| 73 | -75° | 398 | 6 | 42.6 | -75 | 39.9 | 9.3 | ✓ |
| 74 | -75° | 399 | 6 | 43.4 | -75 | 32.9 | 8.6 | ✓ |
| 75 | -75° | 402 | 6 | 45.4 | -75 | 21.5 | 9.4 | ✓ |
| 76 | -75° | 403 | 6 | 48.0 | -75 | 26.4 | 9.2 | ✓ |
| 77 | -75° | 404 | 6 | 48.9 | -75 | 53.8 | 9.4 | ✓ |
| 78 | -75° | 405 | 6 | 49.2 | -75 | 46.9 | 9.5 | ✓ |
| 79 | -76° | 417 | 6 | 48.9 | -76 | 15.9 | 9.4 | ✓ |
| 80 | -76° | 415 | 6 | 48.3 | -76 | 23.8 | 9.3 | ✓ |
| 81 | -76° | 411 | 6 | 43.1 | -76 | 48.5 | 9.0 | ✓ |

Cards made out

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Saturday, Jan. 18, 1913.

B206 52 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 4 | K0 | |
| 83 | 2 | K5 | |
| 84 | 3 | G0 | |
| 85 | 1 | K0 | |
| 86 | 1 | F2 | |
| 87 | 1 | K0 | |
| 88 | 3 | F2 | |
| 89 | 2 | G0 | |
| 90 | 2 | G5 | |
| 91 | 3 | A3 | |
| 92 | 2 | K0 | |
| 93 | 1 | A | |
| 94 | 5 | A2 | Another star superposed on pr. edge. |
| 95 | 5 | F5 | |
| 96 | 9 | A2 | |
| 97 | 5 | G5 | |
| 98 | 2 | F2 | |
| 99 | 10 | A2 | |
| 100 | 1 | A | |
| 101 | 4 | A5 | |
| 102 | 3 | A2 | |
| 103 | 3 | K0 | |
| 104 | 1 | Neb | |
| 105 | 4 | F8 | |
| 106 | 3 | K5 | |
| 107 | 3 | K0 | |
| 108 | 4 | K5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | -76° | 408 | 6 | 42.0 | -76 | 40.9 | 9.2 ✓ |
| 83 | -76° | 405 | 6 | 40.2 | -76 | 52.9 | 9.4 ✓ |
| 84 | -76° | 269 427 | 6 | 39.9 | -76 0.5 | 58.5 | 9.3 ✓ -76° 426 ~~6 Superposed~~ mag. 9.3 ~~Superposed~~ |
| 85 | -76° | 404 | 6 | 38.2 | -76 | 40.8 | 9.5 ✓ |
| 86 | -76° | 407 | 6 | 42.0 | -76 | 17.5 | 9.6 ✓ |
| 87 | -76° | 409 | 6 | 42.6 | -76 | 23.5 | 9.5 ✓ |
| 88 | -76° | 413 | 6 | 43.7 | -76 | 23.3 | 9.3 ✓ |
| 89 | -76° | 410 | 6 | 42.9 | -76 | 37.3 | 9.4 ✓ |
| 90 | -75° | 408 | 6 | 51.9 | -75 | 33.0 | 9.2 ✓ |
| 91 | -75° | 410 | 6 | 53.5 | -75 | 17.7 | 9.1 ✓ |
| 92 | -75° | 413 | 6 | 54.8 | -75 | 33.8 | 9.3 ✓ |
| 93 | -75° | 409 | 6 | 52.0 | -75 | 52.8 | 9.6 ✓ |
| 94 | -76° | 427 | 6 | 57.0 | -75 | 58.5 | 9.0 ✓ -76° 426 mag. 9.3 Superposed |
| 95 | -77° | 285 | 6 | 56.1 | -77 | 17.2 | 9.1 ✓ |
| 96 | -77° | 286 | 6 | 57.0 | -77 | 30.8 | 7.5 ✓ |
| 97 | -77° | 285 | 6 | 56.0 | -77 | 56.0 | 8.8 ✓ |
| 98 | -77° | 287 | 6 | 58.4 | -77 | 42.9 | 9.2 ✓ |
| 99 | -77° | 288 | 7 | 0.0 | -77 | 36.7 | 7.4 ✓ |
| 100 | -77° | 289 | 7 | 4.4 | -77 | 17.5 | 9.5 ✓ |
| 101 | -76° | 430 | 7 | 5.9 | -76 | 57.9 | 9.0 ✓ |
| 102 | -76° | 429 | 7 | 4.2 | -76 | 31.3 | 9.0 ✓ |
| 103 | -76° | 428 | 7 | 1.9 | -76 | 27.8 | 9.1 ✓ |
| 104 | Offsurvey pos. | | 7 | 1.7 | -75 | H5 | ✓ |
| 105 | -75° | 418 | 7 | 2.5 | -75 | 26.9 | 9.0 ✓ |
| 106 | -75° | 417 | 7 | 2.4 | -75 | 13.9 | 9.3 ✓ |
| 107 | -75° | 419 | 7 | 3.7 | -75 | 4.4 | 9.3 ✓ |
| 108 | -75° | 420 | 7 | 5.4 | -75 | 25.9 | 9.3 ✓ |

Cards made out

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Saturday, Jan 18, 1913.

13 20652 about disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 1 | Ip | |
| 110 | 2 | K0 | |
| 111 | 4 | Ma | |
| 112 | 7 | K5 | |
| 113 | 4 | F8 | |
| 114 | 7 | K2 | |
| 115 | 2 | Ip | |
| 116 | 2 | Ip5 | |
| 117 | 3 | A | Another star superposed. |
| 118 | 3 | F2 | |
| 119 | 1 | K0 | |
| 120 | 2 | Ip | |
| 121 | 8 | F5 | |
| 122 | 3 | K2 | |
| 123 | 6 | K5 | |
| 124 | 7 | A3 | |
| 125 | 8 | K0 | |
| 126 | 1 | K0 | |
| 127 | 7 | F8 | |
| 128 | 3 | A3 | |
| 129 | 1 | K0 | |
| 130 | 2 | K5 | |
| 131 | 4 | Ip | |
| 132 | 1 | Ip | |
| 133 | 1 | Iy | |
| 134 | 2 | Ip | |
| 135 | 4 | F8 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 109 | −75° | 421 | 7 | 8.1 | −75 | 29.9 | 9.4 ✓ |
| 110 | −75° | 424 | 7 | 10.2 | −75 | 16.6 | 9.4 ✓ |
| 111 | −75° | 422 | 7 | 8.1 | −75 | 2.0 | 9.0 ✓ |
| 112 | −75° | 427 | 7 | 12.1 | −75 | 5.7 | 8.4 ✓ |
| 113 | −75° | 423 | 7 | 10.2 | −75 | 37.0 | 9.0 ✓ −75° 423 superposed mags 9.3 |
| 114 | −75° | 426 | 7 | 11.9 | −75 | 50.4 | 8.5 ✓ |
| 115 | −75° | 430 | 7 | 14.7 | −75 | 58.2 | 9.2 ✓ |
| 116 | −75° | 433 | 7 | 15.9 | −75 | 58.1 | 9.3 ✓ |
| 117 | −75° | 431 | 7 | 14.8 | −75 | 15.7 | 9.3 ✓ |
| 118 | −75° | 432 | 7 | 15.3 | −75 | 10.9 | 9.0 ✓ |
| 119 | −75° | 436 | 7 | 17.0 | −75 | 27.8 | 9.6 ✓ |
| 120 | −75° | 435 | 7 | 16.8 | −75 | 37.9 | 9.5 ✓ |
| 121 | −75° | 437 | 7 | 19.5 | −75 | 38.2 | 7.8 ✓ |
| 122 | −75° | 439 | 7 | 21.2 | −75 | 26.7 | 9.2 ✓ |
| 123 | −74° | 432 | 7 | 22.6 | −74 | 59.9 | 8.9 ✓ |
| 124 | −75° | 443 | 7 | 25.2 | −75 | 6.5 | 8.2 ✓ |
| 125 | −75° | 445 | 7 | 29.7 | −75 | 19.8 | 8.3 ✓ |
| 126 | −75° | 440 | 7 | 21.7 | −75 | 57.9 | 9.8 ✓ |
| 127 | −76° | 445 | 7 | 23.4 | −76 | 10.7 | 8.2 ✓ |
| 128 | −76° | 448 | 7 | 25.1 | −76 | 3.9 | 9.2 ✓ |
| 129 | −75° | 442 | 7 | 24.7 | −75 | 54.8 | 9.6 ✓ |
| 130 | −75° | 444 | 7 | 25.6 | −75 | 41.9 | 9.6 ✓ |
| 131 | −76° | 454 | 7 | 30.6 | −76 | 24.4 | 9.1 ✓ |
| 132 | −76° | 456 | 7 | 33.7 | −76 | 32.7 | 9.5 ✓ |
| 133 | −76° | 433 | 7 | 9.2 | −76 | 12.2 | 9.5 ✓ |
| 134 | −76° | 434 | 7 | 14.2 | −76 | 57.9 | 9.4 ✓ |
| 135 | −76° | 440 | 7 | 18.4 | −76 | 48.6 | 9.1 ✓ |

Cards made out

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Saturday, Jan. 18, 1913.
B 20652 shot disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 4 | K0 | |
| 137 | 2 | K5 | |
| 138 | 3 | A5 | |
| 139 | 4 | B5 | |
| 140 | 6 | K0 | |
| 141 | 6 | F0 | |
| 142 | 2 | G0 | |
| 143 | 4 | K0 | |
| 144 | 5 | K5 | |
| 145 | 3 | A0 | |
| 146 | 1 | K0 | |
| 147 | 3 | F8 | |
| 148 | 1 | K0 | |
| 149 | 4 | K0 | Another star superposed? yes |
| 150 | 1 | G5 | |
| 151 | 6 | A3 | |
| 152 | 5 | F2 | |
| 153 | 4 | G0 | |
| 154 | 7 | G5 | |
| 155 | 9 | G0 | |
| 156 | 2 | G0 | |
| 157 | 1 | K | |
| 158 | 9 | K2 | |
| 159 | 10 | A0 | |
| 160 | 2 | A0 | |
| 161 | 3 | A0 | |
| 162 | 6 | F8 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 136 | -77° | 300 | 7 | 16.6 | -77 | 11.3 | 9.1 ✓ |
| 137 | -77° | 303 | 7 | 19.6 | -77 | 20.1 | 9.4 ✓ |
| 138 | -77° | 301 | 7 | 17.7 | -77 | 34.0 | 9.2 ✓ |
| 139 | -77° | 302 | 7 | 18.3 | -77 | 32.2 | 8.8 ✓ |
| 140 | -76° | 444 | 7 | 20.2 | -76 | 47.8 | 9.1 ✓ |
| 141 | -77° | 304 | 7 | 21.9 | -77 | 6.5 | 8.9 ✓ |
| 142 | -78° | 256 | 7 | 20.2 | -78 | 5.5 | 9.2 ✓ |
| 143 | -78° | 258 | 7 | 21.9 | -78 | 11.8 | 9.2 ✓ |
| 144 | -78° | 259 | 7 | 22.3 | -78 | 5.0 | 8.9 ✓ |
| 145 | -78° | 265 | 7 | 18.8 | -78 | 29.1 | 9.2 ✓ |
| 146 | Approx pos (1875) | | 7 | 25.5 | -77 | 50 | ✓ |
| 147 | -77° | 306 | 7 | 25.7 | -77 | 36.9 | 9.2 ✓ |
| 148 | -77° | 309 | 7 | 26.4 | -77 | 37.1 | 9.7 ✓ |
| 149 | -77° | 310 | 7 | 27.6 | -77 | 40.2 | 9.2 ✓ -77° 311 superposed |
| 150 | -77° | 312 | 7 | 28.5 | -77 | 27.1 | 9.8 ✓ |
| 151 | -77° | 313 | 7 | 30.8 | -77 | 11.3 | 9.0 ✓ |
| 152 | -76° | 453 | 7 | 30.4 | -76 | 55.7 | 9.2 ✓ |
| 153 | -77° | 316 | 7 | 33.6 | -77 | 16.5 | 9.1 ✓ |
| 154 | -77° | 317 | 7 | 34.5 | -77 | 33.7 | 8.4 ✓ |
| 155 | -77° | 319 | 7 | 38.0 | -77 | 46.3 | 8.0 ✓ |
| 156 | -77° | 320 | 7 | 39.0 | -77 | 40.2 | 9.4 ✓ |
| 157 | Approx pos (1875) | | 7 | 41.0 | -77 | 31 | ✓ |
| 158 | -77° | 321 | 7 | 41.1 | -77 | 20.6 | 8.1 ✓ |
| 159 | -76° | 458 | 7 | 38.0 | -76 | 48.0 | 7.1 ✓ |
| 160 | -76° | 459 | 7 | 38.2 | -76 | 43.7 | 9.3 ✓ |
| 161 | -76° | 461 | 7 | 41.2 | -76 | 32.6 | 9.3 ✓ |
| 162 | -76° | 459 | 7 | 464 | -76 | 58.4 | 8.6 ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Saturday, Jan. 18, 1913.

B206 52 shot circ.

| No. | Fil. | Class | Remark |
|---|---|---|---|
| 163 | 2 | H0 | |
| 164 | 3 | F8 | |
| 165 | 2 | G5 | |
| 166 | 7 | F0 | |
| 167 | 4 | F0 | |
| 168 | 7 | F2 | |
| 169 | 3 | G5 | |
| 170 | 2 | F8 | |
| 171 | 3 | H0 | |
| 172 | 5 | H0 | |
| 173 | 8 | A3 | |
| 174 | 8 | F0 | |
| 175 | 2 | H0 | |
| 176 | 2 | K5 | |
| 177 | 2 | G0 | |
| 178 | 10 | F8 | |
| 179 | 1 | K5 | |
| 180 | 2 | A0 | |
| 181 | 6 | G5 | |
| 182 | 5 | A3 | |
| 183 | 2 | G | Focus poor. |
| 184 | 1 | F5 | |
| 185 | 2 | A2 | |
| 186 | 1 | G | |
| 187 | 2 | K0 | |
| 188 | 4 | G0 | |
| 189 | 9 | A2 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 163 | −76° | 46.5 | 7 | 44.4 | −76 | 31.5 | 9.5 ✓ |
| 164 | −75° | 44.7 | 7 | 31.1 | −75 | 29.4 | 9.2 ✓ |
| 165 | −75° | 44.9 | 7 | 32.2 | −75 | 18.8 | 9.5 ✓ |
| 166 | −75° | 44.8 | 7 | 32.1 | −75 | 8.5 | 8.5 ✓ |
| 167 | −75° | 45.0 | 7 | 34.0 | −75 | 37.8 | 9.0 ✓ |
| 168 | −75° | 45.2 | 7 | 35.2 | −75 | 15.0 | 8.5 ✓ |
| 169 | −75° | 45.6 | 7 | 37.1 | −75 | 55.3 | 9.1 ✓ |
| 170 | −76° | 46.0 | 7 | 38.4 | −76 | 1.9 | 9.4 ✓ |
| 171 | −74° | 43.8 | 7 | 30.9 | −74 | 49.5 | 9.2 ✓ |
| 172 | −74° | 44.6 | 7 | 33.9 | −74 | 39.4 | 9.1 ✓ |
| 173 | −74° | 44.8 | 7 | 34.1 | −74 | 25.0 | 7.5 ✓ |
| 174 | −74° | 44.7 | 7 | 34.0 | −74 | 1.1 | 7.7 ✓ |
| 175 | −74° | 45.2 | 7 | 37.4 | −74 | 47.4 | 9.3 ✓ |
| 176 | −74° | 45.7 | 7 | 38.7 | −74 | 49.6 | 9.5 ✓ |
| 177 | −75° | 45.4 | 7 | 35.8 | −75 | 3.6 | 9.4 ✓ |
| 178 | −75° | 45.8 | 7 | 39.0 | −75 | 15.4 | 7.8 ✓ |
| 179 | −75° | 45.9 | 7 | 41.1 | −75 | 7.9 | 9.6 ✓ |
| 180 | −74° | 46.0 | 7 | 42.4 | −74 | 51.9 | 9.3 ✓ |
| 181 | −74° | 46.1 | 7 | 42.6 | −74 | 34.5 | 9.0 ✓ |
| 182 | −75° | 46.2 | 7 | 45.0 | −75 | 27.9 | 8.9 ✓ |
| 183 | −75° | 46.0 | 7 | 43.2 | −75 | 34.4 | 9.3 ✓ |
| 184 | −76° | 46.2 | 7 | 44.4 | −76 | 0.4 | 9.5 ✓ |
| 185 | −76° | 46.3 | 7 | 43.2 | −76 | 7.9 | 9.5 ✓ |
| 186 | −76° | 46.4 | 7 | 43.8 | −76 | 9.9 | 9.5 ✓ |
| 187 | −76° | 46.6 | 7 | 44.4 | −76 | 7.6 | 9.5 ✓ |
| 188 | −76° | 47.4 | 7 | 49.6 | −76 | 2.3 | 9.4 ✓ |
| 189 | −76° | 47.7 | 7 | 52.8 | −76 | 26.9 | 8.0 ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Saturday, Jan. 18, 1913.

B20652 chart disp.

| No | Int. | Class | Remark |
|---|---|---|---|
| 190 | 7 | fp | |
| 191 | 5 | Fp | |
| 192 | 3 | Fp | |
| 193 | 7 | fp | |
| 194 | 1 | fp | |
| 195 | 3 | fp | |
| 196 | 4 | Nm | |
| 197 | 4 | No | |
| 198 | 10+ | Q3 | |
| 199 | 7 | Q2 | |
| 200 | 2 | fp | |
| 201 | 6 | Q2 | |
| 202 | 8 | No | |
| 203 | 3 | Q2 | |
| 204 | 10+ | N | Burned out. |
| 205 | 1 | fp | |
| 206 | 2 | fp | |
| 207 | 1 | F | |
| 208 | 1 | Fp | |
| 209 | 6 | Q0 | |
| 210 | 3 | No | |
| 211 | 4 | No | |
| 212 | 5 | Fp | |
| 213 | 3 | Q3 | |
| 214 | 6 | Fp | |
| 215 | 3 | fp | |
| 216 | 4 | Q3 | |

11.06
Jan. 20, 1913
10.42



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 190 | -76° | 478 | 7 | 52.8 | -76 | 49.7 | 8.6 |
| 191 | -77° | 331 | 7 | 51.7 | -77 | 19.0 | 9.1 |
| 192 | -77° | 323 | 7 | 44.1 | -77 | 34.4 | 9.1 |
| 193 | -77° | 326 | 7 | 45.6 | -77 | 39.2 | 8.6 |
| 194 | Approx pos (1875) | | 7 | 47.2 | -77 | 38 | |
| 195 | -77° | 329 | 7 | 49.8 | -77 | 37.2 | 9.5 |
| 196 | -78° | 270 | 7 | 43.2 | -75 | 4.2 | 9.5 |
| 197 | -77° | 324 | 7 | 449 | -77 | 58.6<br>34.4 | 9.1 |
| 198 | -78° | 273 | 7 | 46.0 | -78 | 5.2 | 6.2 |
| 199 | -77° | 330 | 7 | 50.9 | -77 | 51.1 | 8.3 |
| 200 | -77° | 332 | 7 | 52.5 | -77 | 47.0 | 9.4 |
| 201 | -78° | 266 | 7 | 34.0 | -78 | 25.0 | 8.6 |
| 202 | -78° | 261 | 7 | 28.6 | -78 | 54.9 | 8.6 |
| 203 | -78° | 263 | 7 | 29.5 | -78 | 56.1 | 9.4 |
| 204 | -78° | 265 | 7 | 32.4 | -78 | 49.9 | 6.7 |
| 205 | -78° | 262 | 7 | 29.4 | -78 | 10.3 | 9.8 |
| 206 | -78° | 264 | 7 | 30.2 | -78 | 14.6 | 9.4 |
| 207 | -77° | 315 | 7 | 33.3 | -77 | 57.0 | 9.7 |
| 208 | Approx pos (1875) | | 7 | 34.0 | -77 | 44 | |
| 209 | -78° | 267 | 7 | 37.6 | -78 | 55.3 | 8.6 |
| 210 | -78° | 268 | 7 | 38.7 | -78 | 48.9 | 9.2 |
| 211 | -79° | 251 | 7 | 41.3 | -79 | 0.2 | 9.2 |
| 212 | -78° | 269 | 7 | 41.4 | -78 | 43.4 | 8.8 |
| 213 | -78° | 271 | 7 | 45.0 | -78 | 55.5 | 9.2 |
| 214 | -79° | 254 | 7 | 45.1 | -79 | 7.2 | 8.6 |
| 215 | -78° | 272 | 7 | 45.2 | -78 | 35.3 | 9.2 |
| 216 | -77° | 291 | 7 | 9.0 | -77 | 55.8 | 9.1 |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday. Jan. 20, 1913.

T32652 short disp.

| No. | Dist. | Class | Remark |
|---|---|---|---|
| 217 | 8 | Gp | |
| 218 | 3 | A5 | |
| 219 | 3 | F0 | |
| 220 | 4 | G5 | |
| 221 | 5 | G5 | |
| 222 | 3 | K0 | |
| 223 | 2 | A5 | |
| 224 | 1 | G | |
| 225 | 1 | K5 | |
| 226 | 1 | G5 | |
| 227 | 2 | G5 | |
| 228 | 1 | A3 | |
| 229 | 1 | Gp | |
| 230 | 1 | Gp | |
| 231 | 1 | D | |
| 232 | 2 | A3 | |
| 233 | 2 | F2 | |
| 234 | 2 | Gp | |
| 235 | 2 | GE. | |
| 236 | 1 | G5E. | |
| 237 | 4 | F8 | |
| 238 | 1 | K5 | |
| 239 | 3 | K0 | |
| 240 | 4 | K0 | Partly superposed on 239. |
| 241 | 2 | A0 | |
| 242 | 4 | F0 | |
| 243 | 4 | F2 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 217 | -77° | 293 | 7 | 9.5 | -77 | 44.7 | 8.2 ✓ |
| 218 | -77° | 296 | 7 | 11.1 | -77 | 52.1 | 9.2 ✓ |
| 219 | -77° | 294 | 7 | 10.5 | -77 | 58.7 | 9.1 ✓ |
| 220 | -78° | 246 | 7 | 11.7 | -78 | 12.9 | 9.2 ✓ |
| 221 | -78° | ~~249~~ 224 | 8 7 | ~~13.0~~ 2.0 | -78 | ~~20.2~~ 3.8 | 2 9.8 ✓ |
| 222 | -77° | ~~298~~ 298 | 8 7 | ~~13.2~~ 2.4 | -77 | ~~425~~ 51.0 | 4 9.2 ✓ |
| 223 | -76° | 432 | 7 | 9.0 | -76 | 37.8 | 9.5 ✓ |
| 224 | -76° | 431 | 7 | 8.5 | -76 | 42.7 | 9.5 ✓ |
| 225 | -76° | 438 | 7 | 14.8 | -76 | 23.9 | 9.8 ✓ |
| 226 | Approx. pos. (1875) | | 7 | 16.8 | -76 | 27 | s |
| 227 | -76° | 443 | 7 | 19.1 | -76 | 42.7 | 9.6 ✓ |
| 228 | Approx. pos. (1875) | | 7 | 17.1 | -76 | 49 | ✓ |
| 229 | -76° | 442 | 7 | 19.0 | -76 | 52.2 | 9.6 ✓ |
| 230 | -76° | 441 | 7 | 17.8 | -76 | 14.0 | 9.8 ✓ |
| 231 | Approx. pos. (1875) | | 7 | 18.0 | -76 | 10 | ✓ |
| 232 | -76° | 446 | 7 | 23.9 | -76 | 29.8 | 9.5 ✓ |
| 233 | -76° | 447 | 7 | 24.5 | -76 | 26.8 | 9.6 ✓ |
| 234 | -77° | 308 | 7 | 26.4 | -77 | 22.0 | 9.5 ✓ |
| 235 | -76° | 348 | 5 | 45.4 | -76 | 26.2 | 9.4 ✓ |
| 236 | -76° | 353 | 5 | 53.6 | -76 | 47.7 | 9.8 ✓ 76° 354 superposed — magn. 9.9 |
| 237 | -76° | 360 | 5 | 58.5 | -76 | 51.7 | 9.2 ✓ |
| 238 | -77° | 221 | 5 | 57.0 | -77 | 12.5 | 9.8 ✓ |
| 239 | -77° | 226 | 5 6 | ~~54.0~~ 24.0 | -77 | ~~10.7~~ 10.5 | 4 9.8 ✓ |
| 240 | -77° | 227 | 6 | 25 | -77 | 13.6 | 9.3 ✓ |
| 241 | -76° | 368 | 6 | 6.6 | -76 | 56.1 | 9.4 ✓ |
| 242 | -76° | 367 | 6 | 6.0 | -76 | 25.5 | 9.1 ✓ |
| 243 | -76° | 366 | 6 | 3.2 | -76 | 14.0 | 9.6 ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, Jan. 20. 1913.

B2065 s last drift.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 244 | 3 | K5 | |
| 245 | 1 | ly | |
| 246 | 2 | ly5 | |
| 247 | 4 | K0 | |
| 248 | 2 | A2 | |
| 249 | 4 | ly0 | |
| 250 | 8 | ly0 | |
| 251 | 3 | K0 | |
| 252 | 3 | K5 | |
| 253 | 2 | K2 | |
| 254 | 10 | A0 | |
| 255 | 2 | ly5 | |
| 256 | 5 | K0 | |
| 257 | 7 | K0 | |
| 258 | 8 | A5 | |
| 259 | 2 | K0 | K nearly all superposed on 258. |
| 260 | 4 | F0 | |
| 261 | 2 | F5 | |
| 262 | 2 | K0 | |
| 263 | 2 | F5 | |
| 264 | 3 | K0 | |
| 265 | 2 | ly0 | |
| 266 | 5 | ly5 | |
| 267 | 2 | K0 | |
| 268 | 1 | K5 | |
| 269 | 5 | ly5 | |
| 270 | 2 | ly5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 244 | -75° | 365 | 6 | 10.5 | -75 | 51.7 | 9.4 | ✓ |
| 245 | -76° | 372 | 6 | 10.8 | -76 | 0.8 | 9.8 | ✓ |
| 246 | -76° | 371 | 6 | 10.6 | -76 | 22.8 | 9.5 | ✓ |
| 247 | -76° | 374 | 6 | 11.4 | -76 | 19.9 | 9.2 | ✓ |
| 248 | -76° | 377 | 6 | 12.9 | -76 | 19.1 | 9.4 | ✓ |
| 249 | -76° | 380 | 6 | 14.9 | -76 | 18.0 | 9.2 | ✓ |
| 250 | -76° | 376 | 6 | 12.8 | -76 | 39.8 | 8.5 | ✓ |
| 251 | -76° | 373 | 6 | 10.8 | -76 | 49.9 | 9.4 | ✓ |
| 252 | -76° | 378 | 6 | 13.0 | -76 | 54.0 | 9.2 | ✓ |
| 253 | -76° | 379 | 6 | 14.4 | -76 | 59.8 | 9.4 | ✓ |
| 254 | -77° | 243 | 6 | 16.1 | -77 | 3.9 | 7.0 | ✓ |
| 255 | -76° | 383 | 6 | 18.1 | -76 | 43.6 | 9.5 | ✓ |
| 256 | -76° | 382 | 6 | 17.7 | -76 | 56.4 | 9.1 | ✓ |
| 257 | -77° | 248 | 6 | 17.7 | -77 | 18.8 | 8.8 | ✓ |
| 258 | -77° | 247 | 6 | 17.5 | -77 | 28.0 | 8.8 | ✓ |
| 259 | -77° | 246 | 6 | 17.4 | -77 | 27.7 | 9.3 | ✓ |
| 260 | -77° | 245 | 6 | 16.6 | -77 | 30.4 | 9.4 | ✓ ^ |
| 261 | -77° | 244 | 6 | 16.3 | -77 | 20.7 | 9.4 | ✓ ^ m. |
| 262 | -77° | 240 | 6 | 14.3 | -77 | 22.2 | 9.5 | ✓ |
| 263 | -77° | 236 | 6 | 12.6 | -77 | 29.5 | 9.4 | ✓ |
| 264 | -77° | 239 | 6 | 14.0 | -77 | 36.0 | 9.6 | ✓ |
| 265 | -77° | 241 | 6 | 14.7 | -77 | 37.1 | 9.7 | ✓ |
| 266 | -77° | 238 | 6 | 13.0 | -77 | 55.6 | 9.0 | ✓ |
| 267 | -77° | 242 | 6 | 15.6 | -77 | 58.0 | 9.9 | ✓ |
| 268 | Approx pos. | | 6 | 17.3 | -77 | 55 | | ✓ |
| 269 | -78° | 220 | 6 | 20.2 | -78 | 11.1 | 9.4 | ✓ |
| 270 | -78° | 221 | 6 | 20.7 | -78 | 7.1 | 9.8 | ✓ |

The following two 20 minutes of Dec. strips.

Condensation made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, Jan 30. 1913.
B 20652 shot disp.

| No. | Int | Class | Remark |
|---|---|---|---|
| 271 | 3 | $\frac{1}{5}$ | |
| 272 | 2 | $\frac{1}{10}$ | |
| 273 | 6 | $\frac{1}{20}$ | |
| 274 | 6 | $\frac{1}{15}$ | |
| 275 | 5 | $\frac{1}{20}$ | |
| 276 | 4 | $\frac{1}{10}$ | |
| 277 | 3 | $\frac{1}{15}$ | |
| 278 | 5 | $\frac{1}{25}$ | |
| 279 | 4 | $\frac{1}{20}$ | |
| 280 | 4 | $\frac{1}{20}$ | |
| 281 | 6 | $\frac{1}{20}$ | |
| 282 | 3 sv | $\frac{1}{10}$ | |
| 283 | 2 | $\frac{1}{4}$ | |
| 284 | 2 | $\frac{1}{25}$ | |
| 285 | 1 | $\frac{1}{10}$ | |
| 286 | 2 | $\frac{1}{28}$ | |
| 287 | 2 | $\frac{1}{30}$ | |
| 288 | 1 | $\frac{1}{32}$ | |
| 289 | 2 | $\frac{1}{30}$ | |
| 290 | 8 | $\frac{1}{139}$ | |
| 291 | 2 | $\frac{1}{40}$ | |
| 292 | 5 | $\frac{1}{35}$ | |
| 293 | 4 | $\frac{1}{42}$ | |
| 294 | 5 | $\frac{1}{42}$ | |
| 295 | 3 | $\frac{1}{40}$ | |
| 296 | 7 | $\frac{1}{42}$ | |
| 297 | 4 | $\frac{1}{37}$ | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 271 | -78° | 222 | 6 | 23.3 | -78 | 19.3 | 10.0 | ✓ |
| 272 | Approx | 1875 | 6 | 24.0 | -78 | 22 | | ✓ The following 3 are uncertain |
| 273 | -78° | 224 | 6 | 25.5 | -78 | 27.7 | 8.9 | ✓ |
| 274 | -78° | 229 | 6 | 24.5 | -78 | 42.1 | 9.4 | ✓ |
| 275 | -78° | 225 | 6 | 26.3 | -78 | 55.0 | 9.5 | ✓ |
| 276 | -79° | 216 | 6 | 24.1 | -79 | 8.6 | 9.8 | ✓ |
| 277 | -79° | 217 | 6 | 25.0 | -79 | 22.8 | 9.8 | ✓ |
| 278 | -79° | 218 | 6 | 31.0 | -79 | 33.0 | 9.4 | ✓ |
| 279 | -78° | 229 | 6 | 30.1 | -78 | 57.6 | 9.8 | ✓ |
| 280 | -78° | 230 | 6 | 32.6 | -78 | 79.1 | 9.8 | ✓ |
| 281 | -78° | 234 | 6 | 37.0 | -78 | 42.8 | 9.2 | ✓ |
| 282 | -77° | 261 | 6 | 35.5 | -77 | 54.6 | 9.7 | ✓ |
| 283 | Approx plus (1878) | | 6 | 20.9 | -77 | 51 | | ✓ |
| 284 | -77° | 252 | 6 | 23.3 | -77 | 50.2 | 9.8 | ✓ |
| 285 | -77° | 265 | 6 | 38.8 | -77 | 53.6 | 10.0 | ✓ |
| 286 | -78° | 236 | 6 | 39.0 | -78 | 2.1 | 9.8 | ✓ |
| 287 | -78° | 237 | 6 | 41.5 | -78 | 21.7 | 9.4 | ✓ |
| 288 | -78° | 238 | 6 | 42.1 | -78 | 43.1 | 9.9 | ✓ |
| 289 | -78° | 239 | 6 | 45.9 | -78 | 23.9 | 9.5 | ✓ |
| 290 | -78° | 240 | 6 | 46.6 | -78 | 18.7 | 8.2 | ✓ |
| 291 | -77° | 261 | 6 | 50.1 | -77 | 37.4 | 9.4 | ✓ |
| 292 | -78° | 241 | 6 | 54.8 | -78 | 40.5 | 8.9 | ✓ |
| 293 | -79° | 233 | 6 | 55.0 | -79 | 2.3 | 9.3 | ✓ |
| 294 | -79° | 234 | 6 | 56.3 | -79 | 40.9 | 9.2 | ✓ |
| 295 | -78° | 242 | 6 | 58.3 | -78 | 55.2 | 9.4 | ✓ |
| 296 | -78° | 243 | 7 | 5.9 | -78 | 59.3 | 8.7 | ✓ |
| 297 | -78° | 244 | 7 | 7.8 | -78 | 38.3 | 9.2 | ✓ |

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, June 20, 1913.

B 20652 short disp.

| | No. | Int. | Class | Remarks |
|---|---|---|---|---|
| | 298 | 5 | M2 | |
| | 299 | 3 | M0 | |
| 11.00 | 300 | 5 | F0 | |
| 11.37 | 301 | 2 | A3 | |
| | 302 | 6 | F2 | |
| | 303 | 5 | M2 | Partly superposed on 302. |
| | 304 | 5 | A3 | |
| | 305 | 10 | A0 | |
| | 306 | 2 | F5 | Cunthus star superposed. |
| | 307 | 8 | A2 | |
| | 308 | 7 | K5 | |
| | 309 | 2 | M5 | |
| | 310 | 3 | M0 | |
| | 311 | 4 | M0 | |
| | 312 | 3 | A2 | |
| | 313 | 10+ | A | |
| | 314 | 3 | F2 | |
| | 315 | 1 | M5 | |
| | 316 | 8 | M0 | |
| | 317 | 3 | M2 | |
| | 318 | 4 | M0 | |
| | 319 | 4 | M0 | |
| | 320 | 4 | M2 | |
| | 321 | 2 | K | Partly superposed on 322. |
| | 322 | 3 | A5 | |
| | 323 | 3 | A0 | |
| | 324 | 2 | K5 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 298 | −78° | 245 | 7 | 10.5 | −78 | 34.9 | 9.2 | ✓ |
| 299 | −78° | 247 | 7 | 12.4 | −78 | 41.9 | 9.5 | ✓ |
| 300 | −78° | 248 | 7 | 12.9 | −78 | 37.7 | 9.1 | ✓ |
| 301 | −78° | 250 | 7 | 16.3 | −78 | 35.5 | 9.7 | ✓ |
| 302 | −78° | 253 | 7 | 16.7 | −78 | 40.9 | 8.7 | ✓ |
| 303 | −78° | 252 | 7 | 16.6 | −78 | 43.5 | 8.9 | ✓ |
| 304 | −78° | 254 | 7 | 18.4 | −78 | 45.8 | 8.9 | ✓ |
| 305 | −79° | 243 | 7 | 17.1 | −79 | 12.9 | 7.2 | ✓ |
| 306 | −79° | 242 | 7 | 16.6 | −79 | 16.0 | 9.2 | ✓ |
| 307 | −79° | 245 | 7 | 20.0 | −79 | 45.6 | 8.2 | ✓ |
| 308 | −79° | 247 | 7 | 29.6 | −79 | 42.6 | 8.8 | ✓ |
| 309 | Approx. 1875 | | 7 | 7.9 | −79 | 7 | | ✓ |
| 310 | −79° | 241 | 7 | 8.7 | −79 | 36.1 | 9.3 | ✓ |
| 311 | −79° | 237 | 7 | 4.3 | −79 | 26.5 | 9.2 | ✓ |
| 312 | Trail of −79° | 238 | 7 | 4.4 | −79 | 14.1 | 5.2 | ✓ |
| 313 | −79° | 238 | 7 | 4.4 | −79 | 14.1 | 5.2 | ✓ |
| 314 | −79° | 240 | 7 | 5.1 | −79 | 14.8 | 9.2 | ✓ |
| 315 | −79° | 236 | 7 | 1.7 | −79 | 47.0 | 9.8 | ✓ |
| 316 | −79° | 235 | 6 | 59.6 | −79 | 58.3 | 8.9 | ✓ |
| 317 | −80° | 206 | 7 | 4.3 | −80 | 9.5 | 9.4 | ✓ |
| 318 | −78° | 194 | 5 | 42.4 | −78 | 51.9 | 9.4 | ✓ |
| 319 | −78° | 198 | 5 | 46.1 | −78 | 42.2 | 9.4 | ✓ |
| 320 | −78° | 201 | 5 | 48.7 | −78 | 40.7 | 9.2 | ✓ |
| 321 | −77° | 224 | 6 | 2.0 | −77 | 53.8 | 9.6 | ✓ |
| 322 | −77° | 225 | 6 | 2.4 | −77 | 51.0 | 9.2 | ✓ |
| 323 | −78° | 210 | 6 | 8.2 | −78 | 4.9 | 9.4 | ✓ |
| 324 | −78° | 209 | 6 | 2.1 | −78 | 20.8 | 9.8 | ✓ |

cards in adv out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday. Jan. 20. 1913.
B 206 52 slant disp.

| hrs. | Int. | Class | Remark |
|---|---|---|---|
| | 325 | 3 | Jf2 |
| | 326 | 2 | Jf3 |
| | 327 | 5 | fyo |
| | 328 | 1 | Jf |
| | 329 | 1 | Jf |
| | 330 | 3 | Jf5 |
| | 331 | 3 | Jf0 |
| | 332 | 2 | Jf0 |
| | 333 | 4 | fyo |
| | 334 | 3 | Jf2 |
| | 335 | 2 | Jf0 |
| | 336 | 2 | Jf0 |
| | 307 | 2 | Jf5 |
| 11.50 | 338 | 3 | Jf2 |
| 12.10 | 339 | 8 | A E. |
| | 340 | 2 | Jf5 |
| | 341 | 3 | J8 |
| | 342 | 2 | fy Another star superposed at south? |
| | 343 | 5 | fyo |
| | 344 | 3 | A2 Partly superposed on 343. |
| | 345 | 1 | fy |
| | 346 | 1 | Jf |
| | 347 | 2 | J8 |
| | 348 | 2 | fyo |
| | 349 | 5 | fyo |
| | 350 | 2 | Jf5 |
| 3 | X51 | 1 | Jf0 |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 325 | -77° | 2.30 | 6 | 5.1 | -77 | 35.8 | 9.4 ✓ |
| 326 | -77° | 2.32 | 6 | 5.8 | -77 | 27.5 | 9.4 ✓ |
| 327 | -77° | 2.33 | 6 | 7.8 | -77 | 42.4 | 9.3 ✓ |
| 328 | -77° | 2.35 | 6 | 10.4 | -77 | 2.5 | 9.9 ✓ |
| 329 | Approx pos (1875) | | 6 | 13.0 | -77 | 18 | ✓ |
| 330 | -78° | 2.14 | 6 | 8.0 | -78 | 13.4 | 9.6 ✓ |
| 331 | -78° | 2.12 | 6 | 6.0 | -78 | 16.5 | 9.6 ✓ |
| 332 | -78° | 2.17 | 6 | 10.2 | -78 | 30.1 | 9.8 ✓ |
| 333 | -78° | 2.19 | 6 | 13.7 | -78 | 55.7 | 9.3 ✓ |
| 334 | -79° | 2.13 | 6 | 15.3 | -79 | 13.0 | 9.6 ✓ |
| 335 | -78° | 2.11 | 6 | 4.0 | -78 | 46.8 | 9.8 ✓ |
| 336 | ~~Approx Co 1870~~ | | 6 | ~~6.0~~ 5.9 | -79 | 14 | ✓ |
| 337 | -79° | 2.06 | 6 | 5.5 | -79 | 28.0 | 10.0 ✓ |
| 338 | -79° | 2.05 | 6 | 4.6 | -79 | 31.4 | 9.6 ✓ |
| 339 | -80° | 1.80 | 6 | 32.2 | -80 | 2.4 | 9.2 ✓ |
| 340 | -79° | 2.20 | 6 | 36.8 | -79 | 42.1 | 9.4 ✓ |
| 341 | -79° | 2.21 | 6 | 38.4 | -79 | 50.8 | 9.2 ✓ |
| 342 | -79° | 2.26 | 6 | H8.6 | -79 | 44.7 | 9.5 ✓ |
| 343 | -79° | 2.28 | 6 | 50.4 | -79 | 28.2 | 8.9 ✓ |
| 344 | -79° | 2.30 | 6 | 50.5 | -79 | 23.2 | 9.2 ✓ |
| 345 | -79° | 2.27 | 6 | H8.9 | -79 | ~~3.5~~ 3.6 | ~~10.0~~ 9.5 ✓ |
| 346 | -79° | 2.23 | 6 | 46.4 | -79 | 4.8 | 10.0 ✓ |
| 347 | -79° | 2.22 | 6 | 38.9 | -79 | 21.6 | 9.2 ✓ |
| 348 | -78° | 2.31 | 6 | 33.4 | -78 | 58.8 | 9.5 ✓ |
| 349 | -79° | 2.32 | 6 | 52.4 | -79 | 41.9 | 9.0 ✓ |
| 350 | -79° | 2.31 | 6 | 51.6 | -79 | 55.2 | 9.6 ✓ |
| 351 | -74° | 3.68 | 6 | 5.1 | -74 | 7.2 | 8.9 ✓ |

Cards made out

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Thursday. June 12, 1913.

B 20652 short exp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 352 | 6 | Ao | |
| 353 | 1 | F | |
| 354 | 4 | K0 | |
| 355 | 2 | F0 | |
| 356 | 2 | G5 | |
| 357 | 10 | A5 | |
| 358 | 4 | F5 | |
| 359 | 3 | F5 | |
| 360 | 7 | A5 | |
| 361 | 1 | G | |
| 362 | 2 | G5 | |
| 363 | 2 | G0 | |
| 364 | 7 | F2 | |
| 365 | 5 | F2 | |
| 366 | 3 | F2 | |
| 367 | 3 | F8 | |
| 368 | 2 | G0 | |
| 369 | 4 | F5 | |
| 370 | 4 | K0 | |
| 371 | 9 | F5 | |
| 372 | 2 | G2 | |
| 373 | 4 | F8 | |
| 374 | 1 | G0 | |
| 375 | 1 | G5 | |
| 376 | 1 | K0 | |
| 377 | 1 | G | |
| 378 | 4 | K0 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 352 | − 75° | 391 | 6 | 38.8 − 75 | 6.6 | 8.7 ✓ |
| 353 | − 74° | 398 | 6 | 40.3 − 74 | 48.8 | 9.5 ✓ |
| 354 | − 74° | 408 | 6 | 40.8 − 74 | 41.0 | 9.2 ✓ |
| 355 | − 74° | 392 | 6 | 36.2 − 74 | 49.1 | 9.3 ✓ |
| 356 | − 74° | 393 | 6 | 37.4 − 74 | 35.5 | 9.4 ✓ |
| 357 | − 73° | 389 | 6 | 36.0 − 73 | 38.8 | 8.1 ✓ |
| 358 | − 73° | 392 | 6 | 38.6 − 73 | 28.1 | 9.1 ✓ |
| 359 | − 73° | 394 | 6 | 39.8 − 73 | 46.3 | 9.4 ✓ |
| 360 | − 74° | 401 | 6 | 40.8 − 74 | 11.3 | 8.8 ✓ |
| 361 | − 74° | 403 | 6 | 41.3 − 74 | 17.3 | 9.5 ✓ |
| 362 | − 74° | 404 | 6 | 42.4 − 74 | 18.3 | 9.6 ✓ |
| 363 | − 74° | 405 | 6 | 43.7 − 74 | 26.0 | 9.4 ✓ |
| 364 | − 74° | 406 | 6 | 45.0 − 74 | 32.8 | 8.8 ✓ |
| 365 | − 74° | 411 | 6 | 48.0 − 74 | 16.8 | 9.0 ✓ |
| 366 | − 74° | 412 | 6 | 49.2 − 74 | 5.7 | 9.4 ✓ |
| 367 | − 73° | 410 | 6 | 51.7 − 73 | 57.4 | 9.2 ✓ |
| 368 | − 74° | 414 | 6 | 51.0 − 74 | 23.0 | 9.2 ✓ |
| 369 | − 74° | 416 | 6 | 51.3 − 74 | 29.7 | 9.1 ✓ |
| 370 | − 74° | 419 | 6 | 53.1 − 74 | 24.2 | 9.1 ✓ |
| 371 | − 74° | 421 | 6 | 56.8 − 74 | 33.9 | 7.9 ✓ |
| 372 | − 74° | 423 | 6 | 58.0 − 74 | 6.9 | 9.6 ✓ |
| 373 | − 74° | 424 | 7 | 0.3 − 74 | 19.6 | 8.9 ✓ |
| 374 | − 74° | 420 | 6 | 56.3 − 74 | 54.8 | 9.4 ✓ |
| 375 | − 75° | 415 | 6 | 58.3 − 75 | 4.8 | 9.6 ✓ |
| 376 | − 75° | 417 | 6 | 55.9 − 75 | 14.3 | 9.5 ✓ |
| 377 | − 74° | 426 | 7 | 1.6 − 74 | 34.2 | 9.4 ✓ |
| 378 | − 74° | 427 | 7 | 6.7 − 74 | 17.4 | 9.3 ✓ |

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday. Jan. 30 1913.

B20652 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 379 | 9 | A3 | |
| 380 | 8 | K2 | |
| 381 | 3 | F2 | |
| 382 | 2 | K0 | |
| 383 | 6 | K0 | |
| 384 | 2 | F8 | |
| 385 | 8 | F0 | |
| 386 | 2 | F5 | |
| 387 | 2 | F0 | |
| 388 | 6 | K2 | |
| 389 | 4 | A5 | |
| 390 | 7 | F2 | |
| 391 | 6 | F2 | |
| 392 | 2 | A3 | |
| 393 | 6 | G5 | |
| 394 | 5 | K0 | |
| 395 | 7 | F2 | |
| 396 | 3 | K0 | |
| 397 | 1 | K5 | |
| 398 | 2 | F8 | |
| 399 | 2 | G5 | |
| Time 12.35 400 | 2 | K0 | |
| Jan. 31, 1912 | | | |
| Time 10.30 401 | 3 | A2 | E |
| 402 | 6 | F0 | E |
| 403 | 5 | K0 | E |
| 404 | 6 | A3 | E |
| 405 | 7 | K0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 379 | −73° | H24 | 7 | 3.9 | −73 | 49.9 | 8.3 ✓ |
| 380 | −73° | H28 | 7 | 3.8 | −73 | 22.0 | 8.6 ✓ |
| 381 | −73° | 413 | 7 | 56.7 | −73 | 35.7 | 9.0 ✓ |
| 382 | −73° | 419 | 7 | 0.0 | −73 | 31.9 | 9.3 ✓ |
| 383 | −72° | 853 | 7 | 3.4 | −72 | 52.9 | 8.6 ✓ |
| 384 | −72° | 547 | 7 | 0.9 | −72 | 51.1 | 9.0 ✓ |
| 385 | −72° | 551 | 7 | 3.0 | −72 | 22.4 | 7.7 ✓ |
| 386 | −72° | 552 | 7 | 3.4 | −72 | 34.7 | 8.9 ✓ |
| 387 | −72° | 559 | 7 | 5.7 | −72 | 34.3 | 8.9 ✓ |
| 388 | −72° | 563 | 7 | 7.6 | −72 | 47.6 | 8.5 ✓ |
| 389 | −73° | 435 | 7 | 13.9 | −73 | 56.9 | 8.9 ✓ |
| 390 | −73° | 437 | 7 | 15.9 | −73 | 54.7 | 8.5 ✓ |
| 391 | −73° | 439 | 7 | 16.3 | −73 | 55.8 | 8.5 ✓ |
| 392 | −73° | 440 | 7 | 18.7 | −73 | 50.9 | 9.3 ✓ |
| 393 | −73° | 441 | 7 | 21.9 | −73 | 40.8 | 8.9 ✓ |
| 394 | −73° | 442 | 7 | 22.5 | −73 | 58.8 | 9.0 ✓ |
| 395 | −73° | 445 | 7 | 25.4 | −73 | 40.7 | 8.4 ✓ |
| 396 | −73° | 446 | 7 | 25.6 | −73 | 52.1 | 9.3 ✓ |
| 397 | −74° | 430 | 7 | 15.2 | −74 | 23.8 | 9.5 ✓ |
| 398 | −74° | 431 | 7 | 15.8 | −74 | 47.9 | 9.4 ✓ |
| 399 | −74° | 428 | 7 | 9.5 | −74 | 11.1 | 9.0 ✓ |
| 400 | −73° | 436 | 7 | 15.2 | −73 | 30.1 | 9.3 ✓ |
| 401 | −72° | 584 | 7 | 19.7 | −72 | 58.1 | 9.0 ✓ |
| 402 | −72° | 582 | 7 | 17.7 | −72 | 30.7 | 8.0 ✓ |
| 403 | −72° | 577 | 7 | 13.4 | −72 | 32.3 | 8.6 ✓ |
| 404 | −72° | 578 | 7 | ~~13.4~~ 12.4 | −72 | ~~7.5~~ 8.0 | 8.~~6~~ ✓ |
| 405 | −73° | 427 | 7 | 4.6 | −73 | 4.1 | 9.2 ✓ |

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Tuesday Jan. 21, 1913

B 20652 Short dup.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 406 | 8: | F5 | |
| 407 | 2 | A5 | |
| 408 | 10 | K0 | |
| 409 | 4 | F5 | |
| 410 | 2 | F8 | |
| 411 | 1 | B | |
| 412 | 3 | A2 | |
| 413 | 6 | A2 | E |
| 414 | 4 | A5 | E |
| 415 | 5 | A0 | |
| 416 | 3 | F5 | |
| 417 | 2 | K0 | |
| 418 | 4 | K2 | |
| 419 | 5 | K2 | |
| 420 | 5 | F2 | |
| 421 | 2 | A5 | |
| 422 | 2 | A5 | |
| 423 | 3 | F6 | |
| 424 | 2 | A3 | |
| 425 | 5 | K5 | |
| 426 | 3 | K5 | |
| 427 | 3 | K2 | |
| 428 | 2 | K0 | |
| 429 | 2 | A2 | |
| 430 | 5 | F0 | |
| 431 | 10+ | A | |
| 432 | 8 | K2 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 406 | -73° | 409 | 6 | 51.6 - 73 | 9.2 | 8.1 |
| 407 | -73° | 405 | 6 | 48.6 - 73 | 7.4 | 9.1 |
| 408 | -72° | 522 | 6 | 46.2 - 72 | 58.9 | 7.3 |
| 409 | -72° | 520 | 6 | 44.5 - 72 | 53.5 | 8.8 |
| 410 | -72° | 518 | 6 | 42.0 - 72 | 52.9 | 9.1 |
| 411 | -73° | 393 | 6 | 39.0 - 73 | 6.6 | 9.4 |
| 412 | -72° | 504 | 6 | 35.4 - 72 | 25.3 | 9.2 |
| 413 | -72° | 508 | 6 | 36.3 - 72 | 9.8 | 8.3 |
| 414 | -72° | 502 | 6 | 34.7 - 72 | 4.7 | 8.7 |
| 415 | -73° | 382 | 6 | 30.0 - 73 | 8.5 | 8.9 |
| 416 | -73° | 383 | 6 | 30.1 - 73 | 22.1 | 9.2 |
| 417 | -73° | 387 | 6 | 32.2 - 73 | 29.7 | 9.3 |
| 418 | -73° | 379 | 6 | 28.8 - 73 | 47.2 | 9.4 |
| 419 | -74° | 388 | 6 | 29.4 - 74 | 9.6 | 9.2 |
| 420 | -74° | 385 | 6 | 25.9 - 74 | 6.4 | 9.1 |
| 421 | -75° | 879 | 6 | 28.9 - 75 | 15.9 | 9.5 |
| 422 | -74° | 381 | 6 | 22.3 - 74 | 34.5 | 9.6 |
| 423 | -73° | 373 | 6 | 22.0 - 73 | 44.1 | 9.1 |
| 424 | -73° | 371 | 6 | 20.9 - 73 | 39.9 | 9.5 |
| 425 | -73° | 372 | 6 | 21.7 - 73 | 17.9 | 9.0 |
| 426 | -73° | 374 | 6 | 22.3 - 73 | 1.6 | 9.3 |
| 427 | -73° | 376 | 6 | 25.5 - 73 | 16.2 | 9.2 |
| 428 | -73° | 378 | 6 | 27.6 - 73 | 29.2 | 9.4 |
| 429 | -72° | 481 | 6 | 26.4 - 72 | 56.5 | 9.3 |
| 430 | -72° | 478 | 6 | 25.5 - 72 | 17.6 | 9.0 |
| 431 | -73° | 360 | 6 | 17.7 - 73 | 34.7 | 6.3 |
| 432 | -73° | 361 | 6 | 18.2 - 73 | 24.1 | 9.4 |

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Tuesday Jan. 21, 1913

B 20652 short

| | No. | Int. | Class | Remarks |
|---|---|---|---|---|
| | 433 | 3 | Ko | E. |
| June 10.37 | 434 | 5 | K5 | E. |
| | ~~435~~ | | | |
| | 435 | 8 | ~~Fo~~ | |
| .. | 436 | 2 | K5- | |
| | 437 | 5 | Ao | |
| | 438 | 3 | Ma | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 433 | −72° | 451 | 6′ | 8.9 | −72 | 28.5 | 8.9 | V |
| 434 | −72° | 443 | 6′ | 4.0 | −72 | 8.3 | 8.6 | ✓ |

Identified by AMS. Feb. 3, 1913

Checked by J. C. M. Feb. 14, 1913.

Cards made out by M. C. W. Checked by E.K.W.

Stars not in Dm. were marked by J. C. M. on B 26766. Positions to be measured.

Approx. Positions estimated by E.K.W. April 11 1913

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 435 | −78° | 232 | 6 | 36.2 | −78 | 48 | 7.9 | 57 on B20557 |
| 436 | −79° | 215 | 6 | 18.4 | −79 | 10 | 9.4 | 55 .. .. |
| 437 | −77° | 234 | 6 | 9.2 | −77 | 16 | 8.4 | 115 .. B 15162 |
| 438 | −78° | 218 | 6 | 12.0 | −78 | 32 | 9.4 | 47 .. B20557 |

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Wednesday, April 9, 1913.

B3206 70 slant disp. (cont from pg 176)

June : 11. 07

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 458 | 3 | F0 | |
| 459 | 1 | F5 | |
| 460 | 2 | A0 | |
| 461 | 1 | K5 | Perhaps Ma. |
| 462 | 3 | A | E. |
| 463 | 4 | F0 | |
| 464 | 2 | G | |
| 465 | 3 | G5 | |
| 466 | 2 | G0 | |
| 467 | 3 | A0 | |
| 468 | 4 | F2 | |
| 469 | 2 | F2 | |
| 470 | 3 | F0 | The preceding of two. |
| June : 11. 10 | 471 | 2 | A5 |
| | 472 | | |
| | 473 | | |
| | 474 | | |

Wed. Nov. 5, 1913

| | | | |
|---|---|---|---|
| 472 | 5 | B9 | |
| 473 | 4 | A0 | |
| 474 | 1 | K0 | |

Cont. 134, 71



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 458 | −32° | 3770 | 7 | 8.0 | −32 | 41.0 | 9.4 | ∧√ |
| 459 | −32° | 3742 | 7 | 6.8 | −32 | 36.0 | 8.5 | ∧√ |
| 460 | −32° | 3717 | 7 | 5.3 | −32 | 42.8 | 10 | ∧√ |
| 461 | −33° | 3515 | 7 | 2.8 | −33 | 11.0 | 8.7 | ∧√ |
| 462 | −33° | 3508 | 7 | 2.3 | −33 | 0.3 | 9.7 | ∧√ |
| 463 | −33° | 3491 | 7 | 1.3 | −33 | 21.0 | 9.0 | ∧√ |
| 464 | −33° | 3494 | 7 | 1.4 | −33 | 27.0 | 9.0 | ∧√ |
| 465 | −33° | 3489 | 7 | 1.1 | −33 | 24.0 | 9.5 | ∧√ |
| 466 | −33° | 3476 | 7 | 0.6 | −33 | 34.0 | 9.5 | ∧√ |
| 467 | −33° | 3447 | 6 | 58.5 | −33 | 1.7 | 9.6 | ∧√ |
| 468 | −33° | 3443 | 6 | 58.2 | −33 | 5.7 | 8.7 | ∧√ |
| 469 | −33° | 3438 | 6 | 57.6 | −33 | 3.1 | 9.5 | ∧√ |
| 470 | −33° | 3428 | 6 | 57.0 | −33 | 10.4 | 8.7 | ∧√ |
| 471 | −33° | 3564 | 7 | 6.4 | −33 | 31.1 | 9.5 | ∧√ |

Identified by J.C.M. August 13, 1913.
Checked September 5, 1913 L.D.W.
Cards made out by S.R.B.
Cards checked by S.J.G.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ✓ 472 | −36° | 3487 | 7 | 12.7 | −36 | 52.9 | 9.0 | ✓ |
| ✓ 473 | −36° | 3516 | 7 | 14.1 | −36 | 33.4 | 9.1 | ✓ |
| ✓ 474 | −36° | 3517 | 7 | 14.1 | −36 | 39.9 | 9.2 | ✓ |

Identified by J.C.M. Nov. 5, 1913
Checked by A.J.C. " " "
Cards made out by S.R.B.
Cards checked by G.F.M.

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