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

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Wednesday May 7, 1919

Time: 21.35

I = 37° 51'

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 1 | 5 | ly5 | E. |
| 2 | 4 | F8 | E. |
| 3 | 2 | F5 | E. |
| 4 | 4 | K0 | |
| 5 | 4 | B9 | |
| 6 | 7 | A2 | |
| 7 | 8 | A2 | |
| 8 | 3 | B9 | |
| 9 | 3 | ly5 | |
| 10 | 5 | F0 | |
| 11 | 3 | K0 | |
| 12 | 2 | A | |
| 13 | 4 | B9 | |
| 14 | 1 | ly5 | |
| 15 | 10 | F0 | |
| 16 | 2 | A | |
| 17 | 6 | ly5 | |
| 18 | 2 | A | |
| 19 | 2 | F0 | |
| 20 | 2 | A | |
| 21 | 4 | F8 | |
| 22 | 4 | K0 | |
| 23 | 5 | A5 | |
| 24 | 1 | F | |
| 25 | 7 | A2 | Metallic lines strong for this class. Maybe comp. |
| 26 | 2 | K0 | |
| 27 | 4 | F | Lines poor. |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | +6° | 1621 | 7 | 13.2 | +6 | 30.9 | 7.9 ✓ |
| 2 | +6° | 1637 | 7 | 15.1 | +6 | 38.7 | 8.1 ✓ |
| 3 | +7° | 1703 | 7 | 14.9 | +7 | 13.1 | 9.0 ✓ |
| 4 | +7° | 1705 | 7 | 15.0 | +7 | 46.1<br>46.2 | 8.5<br>8.6 ✓ |
| 5 | +7° | 1709 | 7 | 15.3 | +7 | 14.5 | 8.5 ✓ |
| 6 | +7° | 1711 | 7 | 16.0 | +7 | 13.1 | 8.5 ✓ |
| 7 | +7° | 1712 | 7 | 16.5 | +7 | 34.2 | 8.5 ✓ |
| 8 | +6° | 1645 | 7 | 16.3 | +6 | 40.2 | 8.5 ✓ |
| 9 | +6° | 1648 | 7 | 16.7 | +6 | 25.7 | 8.0 ✓ |
| 10 | +6° | 1663 | 7 | 18.1 | +6 | 57.5 | 8.0 ✓ |
| 11 | +7° | 1719 | 7 | 17.8 | +7 | 50.7 | 8.5 ✓ |
| 12 | +7° | 1723 | 7 | 18.5 | +7 | 34.0 | 9.0 ✓ |
| 13 | +7° | 1725 | 7 | 19.4 | +7 | 37.7 | 8.3 ✓ |
| 14 | +7° | 1728 | 7 | 20.0 | +7 | 32.4 | 8.8 ✓ |
| 15 | +7° | 1729 | 7 | 20.3 | +7 | 13.8 | 6.0 ✓ |
| 16 | +6° | 1674 | 7 | 20.2 | +6 | 12.5 | 8.6 ✓ |
| 17 | +6° | 1688 | 7 | 21.5 | +6 | 52.5 | 7.2 ✓ |
| 18 | +7° | 1739 | 7 | 21.3 | +7 | 25.0 | 9.0 ✓ |
| 19 | +7° | 1741 | 7 | 21.4 | +7 | 37.6 | 9.0 ✓ |
| 20 | +7° | 1730 | 7 | 20.6 | +7 | 43.9 | 9.2 ✓ |
| 21 | +8° | 1781 | 7 | 20.9 | +8 | 13.2 | 8.2 ✓ |
| 22 | +8° | 1785 | 7 | 21.8 | +8 | 8.2 | 8.0 ✓ |
| 23 | +8° | 1789 | 7 | 22.6 | +8 | 0.8 | 8.0 ✓ |
| 24 | +8° | 1786 | 7 | 22.2 | +8 | 33.1 | 9.2 ✓ |
| 25 | +8° | 1791 | 7 | 23.1 | +8 | 51.2 | 7.8 ✓ |
| 26 | +8° | 1801 | 7 | 24.9 | +8 | 57.8 | 8.5 ✓ |
| 27 | +8° | 1809 | 7 | 25.4 | +8 | 16.7 | 8.8 ✓ |

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May 7. 1932

I 37581

| No. | Fut. | Class | Remarks |
|---|---|---|---|
| 28 | 2 | ly | |
| 29 | 1 | A | |
| 30 | 2 | A | |
| 31 | 2 | A3 | Difficult. |
| 32 | 3 | F8 | |
| 33 | 3 | K0 | |
| 34 | 4 | A5 | |
| 35 | 2 | A0 | |
| 36 | 8 | A0 | |
| 37 | 3 | K2 | |
| 38 | 3 | ly0 | |
| 39 | 1 | K | |
| 40 | 1 | A | |
| 41 | 6 | A2 | |
| 42 | 2 | ly | |
| 43 | 7 | B9 | |
| 44 | 5 | A2 | |
| 45 | 1 | A3 | Difficult |
| 46 | 2 | A | |
| 47 | 21 | K0 | |
| 48 | 21 | Ma | |
| 49 | 21 | ly5 | |
| 50 | 1 | F | Difficult. |
| 51 | 1 | A | Nearly all subsequent on 52. |
| 52 | 2 | ly | |
| 53 | 5 | B9 | |
| 54 | 3 | A0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | +7° | 1746 | 7 | 22.7 | +7 | 0.8 | 8.5 ✓ |
| 29 | +6° | 1704 | 7 | 23.8 | +6 | 41.9 | 9.1 ✓ |
| 30 | +7° | 1754 | 7 | 24.2 | +7 | 9.0 | 9.3 ✓ |
| 31 | +6° | 1696 | 7 | 22.9 | +6 | 6.9 | 8.5 ✓ |
| 32 | +7° | 1756 | 7 | 25.0 | +7 | 26.3 | 8.3 ✓ |
| 33 | +7° | 1764 | 7 | 25.9 | +7 | 44.1 | 8.5 ✓ |
| 34 | +6° | 1714 | 7 | 25.9 | +6 | 57.8 | 8.0 ✓ |
| 35 | +7° | 1765 | 7 | 26.3 | +7 | 53.3 | 8.7 ✓ |
| 36 | +7° | 1773 | 7 | 27.6 | +7 | 52.3 | 7.8 ✓ |
| 37 | +7° | 1772 | 7 | 27.2 | +7 | 10.1 | 8.5 ✓ |
| 38 | +6° | 1725 | 7 | 28.3 | +6 | 32.8 | 8.3 ✓ |
| 39 | +8° | 1820 | 7 | 28.3 | +8 | 6.3 | 8.6 ✓ |
| 40 | +7° | 1778 | 7 | 28.5 | +7 | 45.0 | 9.2 ✓ |
| 41 | +7° | 1780 | 7 | 28.7 | +7 | 39.0 | 8.0 ✓ |
| 42 | +8° | 1829 | 7 | 30.9 | +8 | 27.8 | 9.1 ✓ |
| 43 | +8° | 1831 | 7 | 31.0 | +8 | 17.7 | 7.8 ✓ |
| 44 | +8° | 1837 | 7 | 31.3 | +8 | 9.5 | 8.3 ✓ |
| 45 | +7° | 1797 | 7 | 31.6 | +7 | 36.4 | 8.8 ✓ |
| 46 | +7° | 1798 | 7 | 31.9 | +7 | 46.8 | 8.7 ✓ |
| 47 | +8° | 1841 | 7 | 31.9 | +8 | 10.1 | 8.3 ✓ |
| 48 | +7° | 1799 | 7 | 32.5 | +7 | 6.2 | 8.5 ✓ |
| 49 | +6° | 1750 | 7 | 32.9 | +6 | 58.3 | 8.4 ✓ |
| 50 | +6° | 1753 | 7 | 33.2 | +6 | 55.3 | 9.0 ✓ |
| 51 | +7° | 1800 | 7 | 32.8 | +7 | 31.5 | 9.2 ✓ |
| 52 | +7° | 1802 | 7 | 32.9 | +7 | 21.7 | 8.5 ✓ |
| 53 | +7° | 1816 | 7 | 34.7 | +7 | 47.8 | 9.0 ✓ |
| 54 | +7° | 1817 | 7 | 35.0 | +7 | 32.3 | 8.5 . |

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May 7. 1912

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| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 3 | A0 | |
| 56 | 2 | A3 | |
| 57 | 7 | B9 | |
| 58 | 2 | A0 | |
| 59 | 3 | F5 | |
| 60 | 5 | A2 | |
| 61 | 1 | G | |
| 62 | 2 | F5 | |
| 63 | 2 | A | |
| 64 | 2 | K0 | |
| 65 | 1 | K | |
| 66 | 3 | A3 | |
| 67 | 7 | B8 | |
| 68 | 5 | A | Another star superposed. |
| 69 | 1 | K0 | |
| 70 | 1 | K2 | |
| 71 | 1 | G5 | |
| 72 | 2 | A | |
| 73 | 2 | A | |
| 74 | 2 | K0 | |
| 75 | 2 | A2 | |
| 76 | 1 | F5 | Difficult. |
| 77 | 3 | G0 | |
| 78 | 4 | A0 | |
| 79 | 4 | F | |
| 80 | 2 | A | |
| 81 | 4 | G5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | +7° | 1818 | 7 | 35.0 | +7 | 25.0 | 8.5 | ✓ |
| 56 | +6° | 1764 | 7 | 34.8 | +6 | 58.8 | 8.8 | ✓ |
| 57 | +6° | 1768 | 7 | 35.9 | +6 | 37.3 | 8.3 | ✓ |
| 58 | +7° | 1822 | 7 | 35.6 | +7 | 35.3 | 9.0 | ✓ |
| 59 | +8° | 1853 | 7 | 35.8 | +8 | 37.0 | 8.6 | ✓ |
| 60 | +9° | 1753 | 7 | 35.9 | +9 | 56.7 | 8.2 | ✓ |
| 61 | +9° | 1758 | 7 | 37.2 | +9 | 21.8 | 9.0 | ✓ |
| 62 | +8° | 1860 | 7 | 37.0 | +8 | 54.8 | 8.5 | ✓ |
| 63 | +8° | 1862 | 7 | 37.6 | +8 | 6.6 | 8.7 | ✓ |
| 64 | +8° | 1863 | 7 | 37.7 | +8 | 4.9 | 8.1 | ✓ |
| 65 | +8° | 1865 | 7 | 38.5 | +8 | 0.5 | 8.6 | ✓ |
| 66 | +7° | 1834 | 7 | 39.4 | +7 | 26.4 | 8.7 | ✓ |
| 67 | +7° | 1837 | 7 | 40.0 | +7 | 41.9 | 7.8 | ✓ |
| 68 | +7° | 1838 | 7 | 40.6 | +7 | 7.3 | 8.3 | ✓ |
| 69 | +6° | 1781 | 7 | 39.8 | +6 | 40.6 | 9.0 | ✓ |
| 70 | +6° | 1778 | 7 | 39.3 | +6 | 24.2 | 8.2 | ✓ |
| 71 | +6° | 1773 | 7 | 37.1 | +6 | 36.1 | 8.5 | ✓ |
| 72 | +6° | 1772 | 7 | 36.9 | +6 | 20.6 | 9.1 | ✓ |
| 73 | +6° | 1786 | 7 | 40.8 | +6 | 9.5 | 9.3 | ✓ |
| 74 | +6° | 1791 | 7 | 42.3 | +6 | 35.2 | 8.5 | ✓ |
| 75 | +7° | 1842 | 7 | 42.5 | +7 | 5.4 | 8.8 | ✓ |
| 76 | +7° | 1841 | 7 | 42.3 | +7 | 38.6 | 8.5 | ✓ |
| 77 | +8° | 1883 | 7 | 41.8 | +8 | 32.8 | 8.2 | ✓ |
| 78 | +9° | 1689 | 7 | ~~42.2~~ 41.4 | +9 | ~~15.6~~ 0.4 | 8.8 | ✓ |
| 79 | +9° | 1680 | 7 | ~~42.4~~ 41.6 | +9 | ~~5.6~~ 9.1 | 8.5 | ✓ |
| 80 | +8° | 1871 | 7 | 39.4 | +8 | 42.8 | 8.7 | ✓ |
| 81 | +10° | 1620 | 7 | 39.8 | +10 | 44.4 | 8.5 | ✓ |

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May 7, 1912

I 37581

| Nr. | Gut. | Class | Remark |
|---|---|---|---|
| 82 | 3 | F | |
| 83 | 3 | $Ly5$ | |
| 84 | 4 | $A2$ | E. |
| 85 | 3 | $A3$ | E. |
| 86 | 5 | $F0$ | E. |
| 87 | 6 | $F5$ | E. |
| 88 | 6 | $A0$ | E. |
| 89 | 3 | $Ly5$ | E. |
| 90 | 4 | $B9$ | E. |
| 91 | 2 | A | E. |
| 92 | 2 | F | E. Very low. |
| 93 | 4 | A | E. |
| 94 | 6 | $A2$ | |
| 95 | 6 | $A3$ | |
| 96 | 2 | $Ly$ | |
| 97 | 2 | $K0$ | |
| 98 | 2 | $F8$ | |
| 99 | 3 | $A2$ | |
| 100 | 10 | $Ly5$ | |
| 101 | 1 | A | |
| 102 | 4 | $K0$ | |
| 103 | 4 | $A2$ | |
| 104 | 2 | $K0$ | |
| 105 | 10+ | A | Turned out. |
| 106 | 9 | $K0$ | |
| 107 | 3 | $K0$ | |
| 108 | 2 | $A0$ | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82) | +10° | 1619 | 7 | 37.7 | +10 | 11.9 | 9.0 ✓ |
| 83 | +10° | 1624 | 7 | 38.6 | +10 | 44.7 | 9.0 ✓ |
| 84 | +9° | 1619 | 7 | 12.6 | +9 | 2.0 | 8.7 ✓ |
| 85 | +9° | 1622 | 7 | 13.5 | +9 | 24.2 | 9.0 ✓ |
| 86 | +9° | 1623 | 7 | 13.6 | +9 | 10.3 | 8.5 ✓ |
| 87 | +9° | 1620 | 7 | 12.9 | +9 | 55.2 | 7.6 ✓ |
| 88 | +10° | 1505 | 7 | 13.0 | +10 | 27.6 | 7.8 ✓ |
| 89 | +11° | 1538 | 7 | 13.4 | +11 | 16.7 | 7.7 ✓ |
| 90 | +11° | 1560 | 7 | 13.7 | +11 | 4.0 | 8.5 ✓ |
| 91 | +12° | 1519 | 7 | 14.5 | +12 | 6.7 | 8.8 ✓ |
| 92 | +10° | 1511 | 7 | 14.0 | +10 | 15.4 | 8.8 ✓ |
| 93 | +10° | 1513 | 7 | 14.5 | +10 | 31.7 | 8.5 ✓ |
| 94 | +10° | 1516 | 7 | 14.8 | +10 | 7.3 | 8.5 ✓ |
| 95 | ~~+8°~~ +9° | 1635 | 7 | 16.7 | ~~+8~~ +9 | 22.8 | 8.0 ✓ |
| 96 | +8° | 1752 | 7 | 15.8 | +8 | 50.4 | 9.0 ✓ |
| 97 | +8° | 1758 | 7 | 16.4 | +8 | 10.0 | 8.5 ✓ |
| 98 | +9° | 1639 | 7 | 17.4 | +9 | 0.4 | 8.8 ✓ |
| 99 | +9° | 1640 | 7 | 17.5 | +9 | 9.1 | 8.7 ✓ |
| 100 | +9° | 1643 | 7 | 17.7 | +9 | 33.7 | 5.4 ✓ |
| 101 | +9° | 1648 | 7 | 18.5 | +9 | 59.8 | 8.9 ✓ |
| 102 | +9° | 1655 | 7 | 19.2 | +9 | 19.9 | 8.0 ✓ |
| 103 | +9° | 1657 | 7 | 19.5 | +9 | 2.4 | 8.2 ✓ |
| 104 | +8° | 1768 | 7 | 18.6 | +8 | 38.1 | 8.6 ✓ |
| 105 | +8° | 1774 | 7 | 19.3 | +8 | 34.8 | 3.0 ✓ |
| 106 | +9° | 1660 | 7 | 20.3 | +9 | 12.8 | 5.0 ✓ |
| 107 | +8° | 1780 | 7 | 20.7 | +8 | 45.4 | 8.2 ✓ |
| 108 | +9° | 1669 | 7 | 21.2 | +9 | 4.0 | 9.0 ✓ |

Carr Made

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May 7, 1912

I 37581

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 2 | fg5 | |
| 110 | 2 | fg | |
| 111 | 3 | ma | |
| 112 | 4 | Ao | |
| 113 | 2 | A | |
| 114 | 4 | A | |
| 115 | 4 | Bg | |
| 116 | 3 | fg5 | |
| 117 | 2 | fg | Difficult |
| 118 | 3 | B8 | |
| 119 | 4 | ma | |
| 120 | 8 | Ao | |
| 121 | 4 | Ao | |
| 122 | 2 | A | |
| 123 | 3 | F | |
| 124 | 3 | A | |
| 125 | 4 | F0 | |
| 126 | 4 | F0 | |
| 127 | 1 | fg | |
| 128 | 1 | fg | |
| 129 | 1 | fg5 | |
| 130 | 2 | A | |
| 131 | 3 | fg5 | |
| 132 | 4 | B8 | |
| 133 | 4 | fg0 | Partly superposed on 134. |
| 134 | 3 | A | Difficult. |
| 135 | 2 | fg5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 109 | +9° | 1661 | 7 | 20.3 | +9 | 48.3 | 8.7 | ✓ |
| 110 | +9° | 1667 | 7 | 20.9 | +9 | 55.9 | 8.8 | ✓ |
| 111 | +10° | 1547 | 7 | 22.1 | +10 | 21.2 | 8.0 | ✓ |
| 112 | +10° | 1549 | 7 | 22.4 | +10 | 10.9 | 9.0 | ✓ |
| 113 | +10° | 1553 | 7 | 23.0 | +10 | 7.0 | 9.0 | ✓ |
| 114 | +10° | 1554 | 7 | 23.2 | +10 | 23.5 | 8.7 | ✓ |
| 115 | +10° | 1556 | 7 | 23.7 | +10 | 23.2 | 8.3 | ✓ |
| 116 | +10° | 1557 | 7 | 23.8 | +10 | 7.6 | 8.5 | ✓ |
| 117 | +10° | 1559 | 7 | 24.7 | +10 | 44.3 | 9.2 | ✓ |
| 118 | +10° | 1661 | 7 | 24.9 | +10 | 52.6 | 8.8 | ✓ |
| 119 | +11° | 1607 | 7 | 25.5 | +11 | 19.2 | 8.1 | ✓ |
| 120 | +10° | 1663 | 7 | 26.1 | +10 | 52.9 | 7.0 | ✓ |
| 121 | +11° | 1613 | 7 | 26.2 | +11 | 7.7 | 8.5 | ✓ |
| 122 | +11° | 1612 | 7 | 26.1 | +11 | 19.1 | 9.0 | ✓ |
| 123 | +11° | 1615 | 7 | 26.5 | +11 | 49.2 | 8.8 | ✓ |
| 124 | +11° | 1617 | 7 | 26.7 | +11 | 57.7 | 8.7 | ✓ |
| 125 | +12° | 1605 | 7 | 27.3 | +12 | 10.2 | 8.3 | ✓ |
| 126 | +12° | 1615 | 7 | 28.8 | +12 | 23.9 | 8.2 | ✓ |
| 127 | +11° | 1631 | 7 | 28.8 | +11 | 41.4 | 8.8 | ✓ |
| 128 | +11° | 1619 | 7 | 26.9 | +11 | 20.3 | 8.7 | ✓ |
| 129 | +11° | 1629 | 7 | 28.6 | +11 | 5.6 | 9.0 | ✓ |
| 130 | +11° | 1632 | 7 | 28.9 | +11 | 13.2 | 9.1 | ✓ |
| 131 | +10° | 1567 | 7 | 27.0 | +10 | 17.2 | 8.5 | ✓ |
| 132 | +10° | 1569 | 7 | 27.3 | +10 | 26.5 | 8.5 | ✓ |
| 133 | +9° | 1694 | 7 | 25.4 | +9 | 37.8 | 8.1 | ✓ |
| 134 | +9° | 1693 | 7 | 25.4 | +9 | 29.2 | 8.7 | ✓ |
| 135 | +8° | 1816 | 7 | 27.5 | +8 | 50.2 | 8.2 | ✓ |

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May 7, 1912

I 37581

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 1 | K | |
| 137 | 2 | A3 | |
| 138 | 2 | F5 | Difficult. |
| 139 | 2 | F0 | |
| 140 | 5 | G5 | |
| 141 | 2 | F5 | |
| 142 | 5 | A0 | |
| 143 | 5 | B9 | |
| 144 | 1 | G5 | |
| 145 | 4 | A2 | |
| 146 | 2 | K0 | |
| 147 | 3 | A2 | |
| 148 | 1 | G5 | |
| 149 | 3 | G0 | |
| 150 | 3 | A | |
| 151 | 2 | A | |
| 152 | 2 | F5 | |
| 153 | 1 | G | |
| 154 | 3 | G5 | |
| 155 | 2 | G | |
| 156 | 2 | K5 | |
| 157 | 6 | K0 | |
| 158 | 1 | M | |
| Time: 22.14 159 | 1 | A | |
| 160 | 6 | G5 | |
| 161 | 2 | A0 | |
| 162 | | | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 136 +9° | 1715 | 7 | 28.8 | +9 | 36.0 | 8.5 ✓ |
| 137 +9° | 1717 | 7 | 29.2 | +9 | 58.9 | 8.8 ✓ |
| 138 +9° | 1723 | 7 | 29.8 | +9 | 56.7 | 8.8 ✓ |
| 139 +9° | 1724 | 7 | 30.3 | +9 | 49.7 | 8.9 ✓ |
| 140 +9° | 1733 | 7 | 31.2 | +9 | 15.1 | 7.5 ✓ |
| 141 +8° | 1882 | 7 | 31.1 | +8 | 46.8 | 8.4 ✓ |
| 142 +9° | 1736 | 7 | 32.1 | +9 | 25.4 | 8.4 ✓ |
| 143 +9° | 1739 | 7 | 32.9 | +9 | 27.9 | 8.4 ✓ |
| 144 +8° | 1842 | 7 | 32.0 | +8 | 57.0 | 8.5 ✓ |
| 145 +8° | 1848 | 7 | 33.5 | +8 | 45.8 | 8.3 ✓ |
| 146 +9° | 1742 | 7 | 33.7 | +9 | 32.0 | 8.5 ✓ |
| 147 +10° | 1592 | 7 | 32.8 | +10 | 6.0 | 9.0 ✓ |
| 148 +10° | 1593 | 7 | 33.1 | +10 | 27.2 | 9.0 ✓ |
| 149 +10° | 1599 | 7 | 33.8 | +10 | 7.8 | 8.5 ✓ |
| 150 +11° | 1649 | 7 | 34.0 | +11 | 1.3 | 9.0 ✓ |
| 151 +11° | 1645 | 7 | 33.5 | +11 | 50.7 | 9.2 ✓ |
| 152 +10° | 1605 | 7 | 34.9 | +10 | 54.2 | 9.0 ✓ |
| 153 +11° | 1651 | 7 | 34.8 | +11 | 40.0 | 8.9 ✓ |
| 154 +11° | 1638 | 7 | 31.1 | +11 | 6.0 | 8.5 ✓ |
| 155 +10° | 1579 | 7 | 29.3 | +10 | 37.7 | 8.5 ✓ |
| 156 +11° | 1593 | 7 | 21.3 | +11 | 19.2 | 8.3 ✓ |
| 157 +11° | 1598 | 7 | 23.1 | +11 | 29.9 | 7.5 ✓ |
| 158 +11° | 1601 | 7 | 23.8 | +11 | 35.4 | 9.0 ✓ |
| 159 +11° | 1604 | 7 | 24.9 | +11 | 32.0 | 9.2 ✓ |
| 160 +10° | 1525 | 7 | 16.4 | +10 | 31.4 | 7.5 ✓ |
| 161 +10° | 1526 | 7 | 17.1 | +10 | 25.5 | 8.7 ✓ |

Identified by A.M.C. May 29, 1912

Checked by J.C.M. June 7, 1912

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Wednesday May 7, 1912.

Time: 22.21

I 37346

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 2 | Ma | |
| 2 | 2 | A | |
| 3 | 1 | A | |
| 4 | 2 | fg5 | |
| 5 | 5 | Md | Hy bright = b. H8 bright = 8. |
| 6 | 4 | Ko | |
| 7 | 5 | A | Too much superposed on 8. |
| 8 | 3 | K | Difficult. Look up. |
| 9 | 2 | Ko | |
| 10 | 3 | Fo | |
| 11 | 3 | Ko | |
| 12 | 2 | fg5 | |
| 13 | 5 | Ko | |
| 14 | 4 | Ko | |
| 15 | 3 | K2 | |
| 16 | 10 | A5 | |
| 17 | 4 | K0 | E. |
| 18 | 2 | F5 | |
| 19 | 6 | Fo | |
| 20 | 2 | Ko | |
| 21 | 4 | fg5 | |
| 22 | 2 | fg5 | |
| 23 | 1 | K | |
| 24 | 2 | fg | Difficult. |
| 25 | 1 | fg5 | |
| 26 | 5 | fg5 | |
| 27 | 2 | Ko | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | +69° | 600 | 10 | 58.4 | +69 | 9.3 | 8.2 ✓ |
| 2 | +68° | 628 | 10 | 54.0 | +68 | 21.0 | 9.2 ✓ |
| 3 | +68° | 626 | 10 | 52.4 | +68 | 26.1 | 9.0 ✓ |
| 4 | +68° | 624 | 10 | 49.0 | +68 | 22.2 | 8.3 ✓ |
| 5 | +69° | 587 | 10 | 34.3 | +69 | 32.1 | Strs ✓ |
| 6 | +69° | 579 | 10 | 25.4 | +69 | 40.1 | 7.9 ✓ |
| 7 | +69° | 576 | 10 | 24.1 | +69 | 36.3 | 8.2 ✓ |
| 8 | +69° | 577 | 10 | 24.2 | +69 | 27.1 | 7.7 ✓ |
| 9 | +68° | 610 | 10 | 22.9 | +68 | 38.9 | 8.7 ✓ |
| 10 | +68° | 609 | 10 | 21.5 | +68 | 53.5 | 8.8 ✓ |
| 11 | +69° | 574 | 10 | 20.7 | +69 | 3.4 | 7.9 ✓ |
| 12 | +68° | 606 | 10 | 16.3 | +68 | 6.8 | 8.5 ✓ |
| 13 | +68° | 605 | 10 | 15.6 | +68 | 24.3 | 7.2 ✓ |
| 14 | +69° | 569 | 10 | 11.0 | +69 | 39.2 | 7.5 ✓ |
| 15 | +69° | 567 | 10 | 9.5 | +69 | 45.0 | 7.7 ✓ |
| 16 | +69° | 568 | 10 | 10.0 | +69 | 28.9 | 6.0 ✓ |
| 17 | +69° | 561 | 9 | 58.1 | +69 | 23.0 | 7.0 ✓ |
| 18 | +65° | 820 | 10 | 1.8 | +65 | 29.5 | 9.0 ✓ |
| 19 | +65° | 817 | 10 | 56.4 | +65 | 35.1 | 7.1 ✓ |
| 20 | +66° | 699 | 10 | 58.1 | +66 | 31.0 | 8.5 ✓ |
| 21 | +66° | 697 | 10 | 56.9 | +66 | 39.4 | 7.0 ✓ |
| 22 | +66° | 696 | 10 | 56.1 | +66 | 36.4 | 8.3 ✓ |
| 23 | +64° | 828 | 10 | 54.6 | +64 | 2.4 | 8.6 ✓ |
| 24 | +65° | 810 | 10 | 48.8 | +65 | 5.7 | 8.8 ✓ |
| 25 | +65° | 809 | 10 | 47.6 | +65 | 26.2 | 8.8 ✓ |
| 26 | +65° | 808 | 10 | 46.8 | +65 | 18.6 | 7.5 ✓ |
| 27 | +65° | 811 | 10 | 49.3 | +65 | 48.8 | 83 ✓ |

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May 7. 1918

I 37346

| Nr. | Frt. | Class | Remark |
|---|---|---|---|
| 28 | 3 | Ly0 | |
| 29 | 2 | Ly5 | |
| 30 | 3 | F8 | |
| 31 | 3 | K0 | |
| 32 | 2 | F2 | |
| 33 | 2 | F0 | |
| 34 | 4 | A0 | Partly superposed on 35. |
| 35 | 2 | F5 | |
| 36 | 4 | F8 | |
| 37 | 4 | Ma | |
| 38 | 5 | F8 | |
| 39 | 10 | B9 | |
| 40 | 3 | A5 | |
| 41 | 2 | F | |
| 42 | 2 | Ly5 | |
| 43 | 4 | F8 | |
| 44 | 7 | K0 | |
| 45 | 4 | F0 | |
| 46 | 2 | Ly | Too much superposed on 45. |
| 47 | 2 | Ly | |
| 48 | 3 | K0 | |
| 49 | 5 | F8 | |
| Time: 23.34 | 50 | 2 | F0 |
| " 21.30 | 51 | 3 | F8 |
| | 52 | 3 | Ly0 |
| | 53 | 10 | K0 |
| | 54 | 2 | A2 |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | +66° | 691 | 10 | 47.6 | +66 | 3.9 | 8.0 | ✓ |
| 29 | +66° | 690 | 10 | 47.6 | +66 | 28.5 | 8.0 | ✓ |
| 30 | +66° | 689 | 10 | 46.2 | +66 | 29.9 | 8.0 | ✓ |
| 31 | +67° | 677 | 10 | 52.1 | +67 | 13.5 | 7.0 | ✓ |
| 32 | +67° | 678 | 10 | ~~32.0~~ 49.8 | +67 | ~~27.5~~ 4.2 | ~~8.2~~ 8.2 | ✓ |
| 33 | +67° | 673 | 10 | 44.0 | +67 | 36.4 | 8.6 | ✓ |
| 34 | +67° | 671 | 10 | 41.2 | +67 | 19.7 | 7.8 | ✓ |
| 35 | +67° | 670 | 10 | 41.1 | +67 | 1.9 | 9.0 | ✓ |
| 36 | +66° | 683 | 10 | 38.4 | +66 | 58.5 | 8.7 | ✓ |
| 37 | +66° | 681 | 10 | 37.8 | +66 | 21.5 | 7.9 | ✓ |
| 38 | +66° | 682 | 10 | 38.0 | +66 | 12.7 | 7.8 | ✓ |
| 39 | +65° | 803 | 10 | 39.1 | +65 | 53.7 | 6.5 | ✓ |
| 40 | +65° | 805 | 10 | 43.0 | +65 | 32.7 | 8.6 | ✓ |
| 41 | +66° | 687 | 10 | 43.9 | +66 | 11.3 | 8.3 | ✓ |
| 42 | +64° | 817 | 10 | 45.3 | +64 | 52.4 | 8.7 | ✓ |
| 43 | +64° | 814 | 10 | 44.1 | +64 | 19.2 | 8.3 | ✓ |
| 44 | +64° | 810 | 10 | 39.9 | +64 | 33.2 | 7.0 | ✓ |
| 45 | +65° | 804 | 10 | ~~37.8~~ 37.9 | +65 | 20.4 | ~~9.7~~ 8.7 | ✓ |
| 46 | +65° | 800 | 10 | 37.8 | +65 | 10.1 | 9.1 | ✓ |
| 47 | +65° | 799 | 10 | 37.4 | +65 | 36.7 | 9.0 | ✓ |
| 48 | +65° | 798 | 10 | 36.5 | +65 | 49.6 | 8.0 | ✓ |
| 49 | +65° | 798 | 10 | ~~37.4~~ 37.4 | +65 | ~~36.7~~ 39.9 | ~~9.0~~ 8.3 | ✓ |
| 50 | +65° | 795 | 10 | ~~36.4~~ 38.8 | +65 | ~~39.9~~ 40.2 | ~~8.3~~ 8.2 | ✓ |
| 51 | +64° | 807 | 10 | 32.8 | +64 | 44.1 | 8.3 | ✓ |
| 52 | +66° | 679 | 10 | 32.8 | +66 | 46.6 | 8.5 | ✓ |
| 53 | +66° | 678 | 10 | 32.0 | +66 | 27.5 | 5.2 | ✓ |
| 54 | +67° | 666 | 10 | 36.7 | +67 | 7.8 | 9.1 | ✓ |

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May 8 1912

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| No. | Fut. | Class | Remark |
|---|---|---|---|
| 55 | 3 | A0 | |
| 56 | 3 | K0 | |
| 57 | 4 | F2 | |
| 58 | 1 | G5 | |
| 59 | 1 | K0 | |
| 60 | 3 | G0 | |
| 61 | 3 | G5 | |
| 62 | 5 | F2 | |
| 63 | 1 | F8 | |
| 64 | 4 | F0 | |
| 65 | 1 | F5 | |
| 66 | 4 | G5 | |
| 67 | 8 | K0 | |
| 68 | 1 | G0 | |
| 69 | 3 | K0 | |
| 70 | 10+ | A0 | |
| 71 | 2 | F8 | |
| 72 | 4 | K0 | |
| 73 | 2 | K5 | |
| 74 | 2 | G0 | |
| 75 | 16 | A3 | |
| 76 | 3 | F8 | |
| 77 | 2 | K0 | |
| 78 | 1 | G | |
| 79 | 2 | G0 | |
| 80 | 3 | K2 | |
| 81 | 3 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | +66° | 675 | 10 | 29.5 | +66 | 16.2 | 9.0 | ✓ |
| 56 | +65° | 791 | 10 | 28.2 | +65 | 42.8 | 8.5 | ✓ |
| 57 | +64° | 795 | 10 | 26.0 | +64 | 21.0 | 8.2 | ✓ |
| 58 | +65° | 789 | 10 | 26.8 | +65 | 5.7 | 9.2 | ✓ |
| 59 | +65° | 788 | 10 | 25.4 | +65 | 36.2 | 8.4 | ✓ |
| 60 | +65° | 786 | 10 | 24.0 | +65 | 43.7 | 8.5 | ✓ |
| 61 | +68° | 672 | 10 | 22.7 | +66 | 11.3 | 8.3 | ✓ |
| 62 | +67° | 658 | 10 | 20.9 | +67 | 3.1 | 7.2 | ✓ |
| 63 | +68° | 612 | 10 | 24.8 | +68 | 19.3 | 9.0 | ✓ |
| 64 | +68° | 611 | 10 | 23.7 | +68 | 16.6 | 8.0 | ✓ |
| 65 | +67° | 656 | 10 | 19.1 | +67 | 18.7 | 9.0 | ✓ |
| 66 | +67° | 653 | 10 | 17.2 | +67 | 25.0 | 7.5 | ✓ |
| 67 | +66° | 671 | 10 | 19.6 | +66 | 21.5 | 6.6 | ✓ |
| 68 | +66° | 670 | 10 | 18.4 | +66 | 35.8 | 9.3 | ✓ |
| 69 | +66° | 665 | 10 | 14.6 | +66 | 38.7 | 7.8 | ✓ |
| 70 | +66° | 664 | 10 | 13.6 | +66 | 18.1 | 5.0 | ✓ |
| 71 | +67° | 651 | 10 | 14.9 | +67 | 40.8 | 8.5 | ✓ |
| 72 | +64° | 788 | 10 | 20.2 | +64 | 4.8 | 7.5 | ✓ |
| 73 | +64° | 790 | 10 | 20.7 | +64 | 37.1 | 8.1 | ✓ |
| 74 | +65° | 783 | 10 | 21.1 | +65 | 1.2 | 8.7 | ✓ |
| 75 | +64° | 789 | 10 | 20.4 | +64 | 59.2 | 6.2 | ✓ |
| 76 | +64° | 787 | 10 | 19.4 | +64 | 39.9 | 8.5 | ✓ |
| 77 | +65° | 782 | 10 | 19.4 | +65 | 21.0 | 8.7 | ✓ |
| 78 | +65° | 780 | 10 | 18.2 | +65 | 31.5 | 9.1 | ✓ |
| 79 | +65° | 777 | 10 | 17.4 | +65 | 20.7 | 8.7 | ✓ |
| 80 | +64° | 781 | 10 | 14.7 | +64 | 54.0 | 7.8 | ✓ |
| 81 | +65° | 770 | 10 | 12.4 | +65 | 41.2 | 8.0 | ✓ |

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May 8, 1912

I 37346

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 2 | A0 | |
| 83 | 10 | A3 | |
| 84 | 1 | A2 | |
| 85 | 2 | K5 | |
| 86 | 10 | K0 | Time 21.38 |
| 87 | | | |
| 88 | | | |
| 89 | | | |
| 90 | | | |
| 91 | 3 | F5 | |
| 92 | 3 | A3 | |
| 93 | 7 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 82 | +64° | 780 | 10 | 11.6 | +64 | 35.5 | 8.8 | ✓ |
| 83 | +65° | 766 | 10 | 7.5 | +65 | 49.1 | 5.8 | ✓ |
| 84 | +65° | 765 | 10 | 6.2 | +65 | 23.6 | 8.9 | ✓ |
| 85 | +65° | 762 | 10 | 4.4 | +65 | 26.2 | 8.3 | ✓ |
| 86 | +65° | 761 | 10 | 3.1 | +65 | 58.0 | 8.1 | ✓ |

Identified by A.McC. May 29, 1912
Checked by J.B.M. June 10, 1912.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 87 | +63° | 928 | 10 | 44.3 | +63 | 58 | 8.7 | 103 on I 37316 |
| 88 | +63° | 939 | 10 | 54.9 | +63 | 4 | 8.8 | 82 .. .. |
| 89 | +63° | 940 | 10 | 56.6 | +63 | 23 | 8.7 | 83 .. .. |
| 90 | +64° | 840 | 11 | 9.8 | +64 | 57 | 8.2 | 107 .. .. |
| 91 | +69 | 586 | 10 | 32.1 | +69 | 49 | 4.7 | 75 on I 37554 |
| 92 | +69 | 584 | 10 | 32.1 | +69 | 22 | 8.3 | 76 .. .. |
| 93 | +69 | 583 | 10 | 31.5 | +69 | 11 | 5.5 | 77 on .. .. |

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

Thursday, May 8, 1913

Time: 21. 48 — I 37751

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 6 | F | E. |
| 2 | 2 | K | E. |
| 3 | 2 | ly | E. |
| 4 | 1 | ly | E. Very poor. |
| 5 | 5 | A2 | |
| 6 | 6 | lyo | |
| 7 | 3 | K5 | |
| 8 | 6 | K2 | |
| 9 | 10 | Ao | |
| 10 | 10+ | A2 | |
| 11 | 5 | A3 | |
| 12 | 4 | K2 | |
| 13 | 2 | ly | |
| 14 | 10 | K5 | |
| 15 | 4 | Mab | H δ bright =7. H γ bright =1. |
| 16 | 1 | K | |
| 17 | 6 | lyo | |
| 18 | 4 | K0 | |
| 19 | 3 | F8 | |
| 20 | 10 | F0 | |
| 21 | 1 | K | Partly superposed on 22. |
| 22 | 7 | K0 | |
| 23 | 1 | Ma | |
| 24 | 4 | A2 | |
| 25 | 4 | F2 | |
| 26 | 2 | K2 | |
| 27 | 2 | K | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | +16° | 2807 | 15 | 29.8 | +16 | 36.1 | 6.0 | ✓ |
| 2 | +17° | 2887 | 15 | 30.9 | +17 | 0.7 | 7.8 | ✓ |
| 3 | +17° | 2888 | 15 | 31.4 30.9 | +17 | 43.1 0.7 | 8.8 | ✓ |
| 4 | +16° | 2812 | 15 | 31.8 | +16 | 58.2 | 8.7 | ✓ |
| 5 | +16° | 2814 | 15 | 33.0 | +16 | 47.5 | 6.5 | ✓ |
| 6 | +16° | 2816 | 15 | 34.4 | +16 | 31.3 | 6.0 | ✓ |
| 7 | +16° | 2822 | 15 | 37.9 | +16 | 58.6 | 7.5 | ✓ |
| 8 | +17° | 2907 | 15 | 38.2 | +17 | 12.4 | 6.8 | ✓ |
| 9 | +17° | 2906 | 15 | 38.1 | +17 | 44.2 | 6.2 | ✓ |
| 10 | +15° | 2911 | 15 | 39.5 | +15 | 53.1 | 3.3 | ✓ |
| 11 | +15° | 2918 | 15 | 39.7 | +15 | 59.1 | 7.1 | ✓ |
| 12 | +19° | 3018 | 15 | 40.9 | +19 | 16.2 | 8.5 | +19° 3017 Superposed ✓ |
| 13 | +19° | 3019 | 15 | 41.2 | +19 | 45.6 | 8.7 | ✓ |
| 14 | +18° | 3014 | 15 | 42.2 | +18 | 36.6 | 4.0 | ✓ |
| 15 | +15° | 2913 | 15 | 44.0 | +15 | 34.7 | var. | ✓ |
| 16 | +16° | 2835 | 15 | 44.5 | +16 | 35.1 | 8.7 | ✓ |
| 17 | +15° | 2923 | 15 | 45.4 | +15 | 39.7 | 8.0 | ✓ |
| 18 | +15° | 2925 | 15 | 46.3 | +15 | 52.5 | 7.5 | ✓ |
| 19 | +16° | 2837 | 15 | 46.2 | +16 | 22.3 | 8.8 | ✓ |
| 20 | +16° | 2840 | 15 | 47.0 | +16 | 30.6 | 7.2 | ✓ |
| 21 | +18° | 3082 | 15 | 46.3 | +18 | 0.2 | 8.8 | ✓ |
| 22 | +17° | 2926 | 15 | 46.4 | +17 | 50.7 | 6.5 | ✓ |
| 23 | +17° | 2928 | 15 | 46.8 | +17 | 42.4 | 9.0 | ✓ |
| 24 | +18° | 3084 | 15 | 47.2 | +18 | 2.8 | 8.0 | ✓ |
| 25 | +17° | 2929 | 15 | 47.6 | +17 | 25.8 | 7.8 | ✓ |
| 26 | +17° | 2934 | 15 | 49.1 | +17 | 27.6 | 8.5 | ✓ |
| 27 | +16° | 2844 | 15 | 48.7 | +16 | 29.2 | 8.9 | ✓ |

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May 8, 1913

I 37781

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 10+ | F8 | |
| 29 | 2 | A5 | E. Difficult Confirm. |
| 30 | 7 | K0 | |
| 31 | 1 | K5 | |
| 32 | 3 | K2 | |
| 33 | 2 | G0 | |
| 34 | 4 | F0 | |
| 35 | 3 | G0 | |
| 36 | 5 | F8 | |
| 37 | 2 | G | |
| 38 | 5 | A0 | |
| 39 | 1 | G5 | |
| 40 | 10 | G5 | |
| 41 | 5 | A0 | |
| 42 | 5 | K0 | |
| 43 | 4 | F0 | |
| 44 | 2 | F5 | |
| 45 | 3 | F0 | |
| 46 | 10 | G | |
| 47 | 9 | A0 | |
| 48 | 4 | A2 | |
| 49 | 3 | A | E. |
| 50 | 8 | A | E. |
| 51 | 6 | A2 | |
| 52 | 2 | A | |
| 53 | 10 | A0 | |
| 54 | 7 | A2 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | +16° | 2849 | 15 | 49.8 | +16 | 8.6 | 3.8 | J |
| 29 | +15° | 2933 | 15 | 49.6 | +15 | 10.5 | 8.1 | ✓ |
| 30 | +14° | 2969 | 15 | 50.6 | +14 | 50.1 | 6.0 | ✓ |
| 31 | +16° | 2851 | 15 | 51.0 | +16 | 30.2 | 8.5 | J |
| 32 | +16° | 2855 | 15 | 52.2 | +16 | 38.7 | 8.1 | ✓ |
| 33 | +16° | 2857 | 15 | 52.4 | +16 | 10.4 | 8.8 | ✓ |
| 34 | +16° | 2865 | 15 | 58.8 | +16 | 5.2 | 8.4 | J |
| 35 | +17° | 2938 | 15 | 50.7 | +17 | 36.5 | 8.2 | ✓ |
| 36 | +18° | 3095 | 15 | 52.5 | +18 | 44.5 | 7.8 | ✓ |
| 37 | +18° | 3096 | 15 | 52.8 | +18 | 1.1 | 8.9 | J |
| 38 | +17° | 2946 | 15 | 53.3 | +17 | 47.9 | 8.5 | ✓ |
| 39 | +17° | 2947 | 15 | 53.7 | +17 | 35.1 | 8.3 | ✓ |
| 40 | +18° | 3101 | 15 | 54.7 | +18 | 13.8 | 5.0 | J |
| 41 | +18° | 3104 | 15 | 56.1 | +18 | 31.1 | 7.3 | J |
| 42 | +18° | 3108 | 15 | 57.3 | +18 | 12.3 | 6.7 | J |
| 43 | +16° | 2881 | 16 | 0.2 | +16 | 46.0 | 8.0 | ✓ |
| 44 | +17° | 2961 | 16 | 0.6 | +17 | 16.7 | 8.5 | J |
| 45 | +17° | 2962 | 16 | 1.2 | +17 | 7.3 | 7.9 | J |
| 46 | +17° | 2968 | 16 | 1.5 | +17 | 26.8 27.2 | 5.5 7.0 | J |
| 47 | +17° | 2967 | 16 | 2.2 | +17 | 36.6 | 6.5 | J |
| 48 | +17° | 2969 | 16 | 2.6 | +17 | 46.1 | 8.0 | ✓ |
| 49 | +18° | 3132 | 16 | 4.7 | +18 | 13.9 | 7.7 | ✓ |
| 50 | +17° | 2982 | 16 | 4.9 | +17 | 2.7 | 6.1 | J |
| 51 | +19° | 3000 | 15 | 33.9 | +19 | 8.9 | 7.6 | J |
| 52 | +19° | 3002 | 15 | 34.9 | +19 | 37.3 | 8.7 | ✓ |
| 53 | +20° | 3138 | 15 | 35.1 | +20 | 8.4 | 4.5 | J |
| 54 | +18° | 3059 | 15 | 35.4 | +18 | 56.6 | 6.0 | ✓ |

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May 8, 1912

I 37751

| No. | Int | Class | Remark |
|---|---|---|---|
| 55 | 3 | F5 | |
| 56 | 1 | ly | |
| 57 | 3 | F0 | |
| 58 | 1 | K2 | |
| 59 | 2 | ly0 | |
| 60 | 5 | F2 | |
| 61 | 4 | A2 | |
| 62 | 1 | ly | |
| 63 | 4 | ly0 | |
| 64 | 4 | K0 | |
| 65 | 10 | K5 | |
| 66 | 2 | ly5 | |
| 67 | 3 | F2 | |
| 68 | 1 | K | |
| 69 | 3 | F0 | |
| 70 | 4 | F8 | |
| 71 | 10 | B9 | |
| 72 | 2 | ly0 | |
| 73 | 8 | K5 | |
| 74 | 2 | F8 | |
| 75 | 3 | ly0 | |
| 76 | 4 | F2 | |
| 77 | 2 | K | |
| 78 | 2 | A3 | |
| 79 | 2 | ly0 | |
| 80 | 2 | ly | |
| 81 | 3 | ly5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | +18° | 3060 | 15 | 35.9 | +18 | 41.0 | 7.3 | ✓ |
| 56 | +18° | 3061 | 15 | 36.5 | +18 | 37.3 | 8.5 | ✓ |
| 57 | +20° | 3140 | 15 | 35.8 | +20 | 39.4 | 8.0 | ✓ |
| 58 | +21° | 2805 | 15 | 36.1 | +21 | 4.0 | 8.3 | ✓ |
| 59 | +22° | 2877 | 15 | 36.9 | +22 | 9.9 | 7.8 | ✓ |
| 60 | +21° | 2813 | 15 | 38.6 | +21 | 54.4 | 7.0 | ✓ |
| 61 | +21° | 2812 | 15 | 38.6 | +21 | 19.6 | 7.0 | ✓ |
| 62 | +20° | 3143 | 15 | 39.0 | +20 | 36.7 | 9.0 | ✓ |
| 63 | +20° | 3145 | 15 | 40.0 | +20 | 22.5 | 7.8 | ✓ |
| 64 | +20° | 3155 | 15 | 44.1 | +20 | 47.7 | 7.7 | ✓ |
| 65 | +21° | 2829 | 15 | 44.9 | +21 | 25.5 | 5.0 | ✓ |
| 66 | +20° | 3154 | 15 | 43.6 | +20 | 8.7 | 8.0 | ✓ |
| 67 | +19° | 3023 | 15 | 44.4 | +19 | 37.4 | 8.1 | ✓ |
| 68 | +19° | 3024 | 15 | 45.1 | +19 | 43.6 | 8.5 | ✓ |
| 69 | +19° | 3031 | 15 | 47.1 | +19 | 9.5 | 8.3 | ✓ |
| 70 | +19° | 3032 | 15 | 47.5 | +19 | 12.6 | 8.5 | ✓ |
| 71 | +19° | 3036 | 15 | 49.2 | +19 | 3.1 | 6.2 | ✓ |
| 72 | +19° | 3033 | 15 | 47.7 | +19 | 51.0 | 8.7 | ✓ |
| 73 | +20° | 3166 | 15 | 48.2 | +20 | 45.2 | 6.2 | ✓ |
| 74 | +20° | 3167 | 15 | 49.6 | +20 | 37.0 | 8.5 | ✓ |
| 75 | +20° | 3168 | 15 | 50.0 | +20 | 50.9 | 8.2 | ✓ |
| 76 | +20° | 3172 | 15 | 50.6 | +20 | 27.4 | 8.2 | ✓ |
| 77 | +19° | 3042 | 15 | 51.3 | +19 | 48.5 | 8.7 | ✓ |
| 78 | +20° | 3174 | 15 | 51.6 | +20 | 28.0 | 9.0 | ✓ |
| 79 | +19° | 3046 | 15 | 52.8 | +19 | 52.0 | 8.8 | ✓ |
| 80 | +19° | 3048 | 15 | 54.4 | +19 | 42.9 | 9.0 | ✓ |
| 81 | +20° | 3191 | 15 | 56.0 | +20 | 2.2 | 8.0 | ✓ |

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May 8, 1912.

I 37751

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 82 | 2 | fg5 | |
| 83 | 2 | fg0 | |
| 84 | 2 | F8 | |
| 85 | 10 | A0 | |
| 86 | 5 | A5 | Focus poor. |
| 87 | 7 | A2 | |
| 88 | 2 | A2 | |
| 89 | 3 | F | |
| 90 | 5 | F5 | |
| 91 | 7 | K0 | |
| 92 | 3 | F0 | |
| 93 | 2 | fg5 | E. |
| 94 | 2 | F5 | Confirm. |
| 95 | 7 | Mb | E. |
| 96 | 3 | F5 | |
| 97 | 4 | F5 | E. |
| 98 | 4 | K0 | E. |
| 99 | 5 | F8 | |
| 100 | 3 | F8 | |
| 101 | 7 | A2 | E. |
| 102 | 6 | A2 | E. |
| 103 | 5 | Mb | E. |
| 104 | 5 | F8 | |
| 105 | 4 | fg5 | |
| 106 | 7 | K0 | |
| 107 | 4 | F0 | |
| 108 | 2 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 82 | +20° | 3195 | 15 | 57.0 | +20 | 36.6 | 8.5 | ✓ |
| 83 | +20° | 3197 | 15 | 58.1 | +20 | 14.9 | 8.5 | ✓ |
| 84 | +21° | 2867 | 15 | 55.8 | +21 | 17.6 | 8.2 | ✓ |
| 85 | +23° | 2886 | 15 | 56.1 | +23 | 12.3 | 4.6 | ✓ |
| 86 | +23° | 2887 | 15 | 56.5 | +23 | 11.8 | 7.6 | ✓ |
| 87 | +22° | 2914 | 15 | 56.5 | +22 | 37.9 | 6.8 | ✓ |
| 88 | +22° | 2915 | 15 | 56.8 | +22 | 16.6 | 8.3 | ✓ |
| 89 | +22° | 2920 | 15 | 59.0 | +22 | 34.9 | 8.2 | ✓ |
| 90 | +22° | 2921 | 15 | 59.4 | +22 | 18.7 | 7.0 | ✓ |
| 91 | +22° | 2926 | 15.6 | 1.1 | +22 | 13.1 | 6.5 | ✓ |
| 92 | +21° | 2875 | 16 | 2.4 | +21 | 27.4 | 8.0 | ✓ |
| 93 | +22° | 2932 | 16 | 3.1 | +22 | 13.0 | 8.0 | ✓ |
| 94 | +22° | 2928 | 16 | 2.4 | +22 | 35.5 | 8.5 | ✓ |
| 95 | +23° | 2909 | 16 | 5.5 | +23 | 53.4 | 6.0 | ✓ |
| 96 | +20° | 3212 | 16 | 1.4 | +20 | 46.2 | 8.3 | ✓ |
| 97 | +21° | 2794 | 15 | 31.5 | +21 | 54.9 | 7.7 | ✓ |
| 98 | +23° | 2838 | 15 | 32.1 | +23 | 8.5 | 7.4 | ✓ |
| 99 | +23° | 2852 | 15 | 37.3 | +23 | 24.7 | 6.5 | ✓ |
| 100 | +22° | 2878 | 15 | 37.6 | +22 | 47.9 | 7.7 | ✓ |
| 101 | +24° | 2914 | 15 | 37.9 | +24 | 55.4 | 7.3 | ✓ |
| 102 | +25° | 2963 | 15 | 38.8 | +25 | 9.7 | 7.5 | ✓ |
| 103 | +24° | 2931 | 15 | 32.1 | +24 | 54.9 | 7.4 | ✓ |
| 104 | +23° | 2862 | 15 | 42.6 | +23 | 42.2 | 7.0 | ✓ |
| 105 | +24° | 2926 | 15 | 43.4 | +24 | 7.8 | 7.3 | ✓ |
| 106 | +22° | 2883 | 15 | 42.2 | +22 | 51.6 | 6.5 | ✓ |
| 107 | +22° | 2889 | 15 | 44.8 | +22 | 45.2 | 8.0 | ✓ |
| 108 | +21° | 2827 | 15 | 44.1 | +21 | 41.4 | 8.0 | ✓ |

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

May 8, 1912

I 37751

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 3 | $k_5$ | |
| 110 | 2 | $k$ | |
| 111 | 2 | $k$ | |
| 112 | 2 | $k$ | |
| 113 | 2 | $k_5$ | |
| 114 | 4 | $k_0$ | |
| 115 | 3 | $K_0$ | |
| 116 | 1 | K | Partly superposed on 117. |
| 117 | 4 | A2 | |
| 118 | 4 | K.2 | |
| 119 | 2 | $k_5$ | |
| Time 23.15 120 | 5 | B9 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 109 | +22° | 2891 | 15 | 46.0 | +22 | 9.5 | 8.0 | ✓ |
| 110 | +20° | 3159 | 15 | 45.6 | +20 | 41.2 | 8.7 | ✓ |
| 111 | +21° | 2838 | 15 | 46.9 | +21 | 18.5 | 8.8 | ✓ |
| 112 | +21° | 2843 | 15 | 48.2 | +21 | 39.7 | 8.8 | ✓ |
| 113 | +21° | 2846 | 15 | 48.7 | +21 | 59.7 | 8.2 | ✓ |
| 114 | +22° | 2898 | 15 | 48.6 | +22 | 35.1 | 7.3 | ✓ |
| 115 | +21° | 2851 | 15 | 50.1 | +21 | 41.4 | 8.2 | ✓ |
| 116 | +22° | 2905 | 15 | 52.6 | +22 | 13.3 | 8.5 | ✓ |
| 117 | +22° | 2906 | 15 | 52.6 | +22 | 13.3 | 8.5 | ✓ |
| 118 | +22° | 2908 | 15 | 53.7 | +22 | 3.0 | 7.5 | ✓ |
| 119 | +22° | 2907 | 15 | 53.0 | +22 | 53.5 | 8.2 | ✓ |
| 120 | +23° | 2876 | 15 | 53.8 | +23 | 25.5 | 7.3 | ✓ |

Identified by AMC. May 29, 1912
Checked by J. C. M. June 10, 1912

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

Friday May 9 1912

Time: 29.37 B 23816 short disper.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 8 | ly5 | E. |
| 2 | 8 | K | E. |
| 3 | 2 | K | E. |
| 4 | 4 | F | E. |
| 5 | 7 | F5 | |
| 6 | 6 | F2 | |
| 7 | 5 | F0 | |
| 8 | 3 | F0 | |
| 9 | 7 | ly | E. |
| 10 | 2 | F0 | |
| 11 | 4 | A0 | |
| 12 | 5 | ly5 | |
| 13 | 3 | K5 | |
| 14 | 3 | F5 | |
| 15 | 8 | F2 | |
| 16 | 3 | A3 | |
| 17 | 5 | ly0 | |
| 18 | 2 | F | |
| 19 | 1 | A | |
| 20 | 4 | F5 | |
| 21 | 10 | F5 | |
| 22 | 4 | B8 | |
| 23 | 6 | A3 | |
| 24 | 4 | F0 | |
| 25 | 2 | ly0 | |
| 26 | 9 | A0 | |
| 27 | 3 | F0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | +0° | 710 | 4″ | 4.7 | +0 | 21.6 | 7.5 J |
| 2 | −0° | 653 | 4″ | 4.2 | −0 | 47.9 | 7.2 J |
| 3 | −0° | 654 | 4″ | 4.3 | −0 | 16.3 | 8.8 J |
| 4 | −0° | 649 | 4″ | 2.3 | −0 | 16.3 | 8.8 J |
| 5 | −0° | 648 | 4″ | 1.8 | −0 | 13.5 | 8.0 J |
| 6 | +0° | 701 | 4″ | 1.2 | +0 | 23.8 | 8.2 J |
| 7 | +0° | 707 | 4″ | 2.8 | +0 | 57.5 | 8.0 J |
| 8 | +0° | 700 | 4″ | 0.5 | +0 | 50.1 | 8.8 J |
| 9 | +1° | 699 | 4″ | 59.2 | +1 | 17.2 | 8.2 J |
| 10 | +0° | 697 | 3″ | 59.5 | +0 | 4.2 | 9.1 J |
| 11 | +0° | 696 | 3″ | 58.6 | +0 | 25.0 | 8.6 J |
| 12 | −0° | 642 | 3″ | 58.7 | −0 | 24.8 | 8.3 J |
| 13 | −0° | 641 | 3″ | 58.2 | −0 | 12.8 | 8.5 J |
| 14 | −1° | 583 | 3″ | 58.5 | −1 | 13.1 | 9.0 J |
| 15 | −0° | 640 | 3″ | 57.9 | −0 | 57.5 | 7.5 J |
| 16 | −0° | 639 | 3″ | 57.6 | −0 | 36.0 | 8.8 J |
| 17 | −0° | 636 | 3″ | 57.1 | −0 | 8.5 | 8.3 J |
| 18 | −0° | 635 | 3″ | 56.5 | −0 | 0.3 | 9.0 J |
| 19 | +0° | 689 | 3″ | 55.7 | +0 | 6.8 | 9.3 J |
| 20 | −0° | 633 | 3″ | 56.6 | −0 | 28.0 | 8.5 J |
| 21 | −0° | 632 | 3″ | 55.2 | −0 | 39.8 | 6.2 J |
| 22 | −0° | 631 | 3″ | 54.9 | −0 | 20.2 | 9.0 J |
| 23 | −0° | 630 | 3″ | 54.8 | −0 | 19.1 | 8.4 J |
| 24 | −1° | 576 | 3″ | 56.5 | −1 | 6.8 | 9.0 J |
| 25 | −1° | 575 | 3″ | 56.0 | −1 | 10.5 | 9.5 J |
| 26 | −1° | 574 | 3″ | 55.3 | −1 | 12.3 | 7.2 J |
| 27 | −1° | 571 | 3″ | 54.2 | −1 | 24.4 | 9.0 J |

cards made out

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

May 9. 1912

B 2381b short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 6 | F5 | |
| 29 | 10+ | B | Cannot subdivide. |
| 30 | 2 | K0 | |
| 31 | 3 | G5 | |
| 32 | 2 | F8 | |
| 33 | 2 | G0 | |
| 34 | 3 | A3 | |
| 35 | 5 | F8 | |
| 36 | 3 | A5 | Difficult. |
| 37 | 5 | G5 | |
| 38 | 5 | A2 | |
| 39 | 3 | K5 | |
| 40 | 8 | B5 | Difficult. |
| 41 | 4 | A2 | |
| 42 | 3 | G0 | |
| 43 | 5 | K5 | |
| 44 | 5 | K0 | |
| 45 | 8 | G5 | |
| 46 | 3 | G0 | |
| 47 | 4 | B9 | |
| 48 | 10 | B8 | Difficult. Burned out. |
| 49 | 6 | G5 | |
| 50 | 4 | F5 | |
| 51 | 5 | K0 | |
| 53 | 1 | A6 | |
| 53 | 2 | A3 | Difficult. |
| 54 | 6 | A2 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | −2° | 717 | 3 | 54.9 | −2 | 2.4 | 8.0 | ✓ |
| 29 | −1° | 572 | 3 | 54.2 | −1 | 57.4 | 5.5 | ✓ |
| 30 | −1° | 570 | 3 | 52.7 | −1 | 52.2 | 9.0 | ✓ |
| 31 | −2° | 770 | 3 | 52.1 | −2 | 9.3 | 8.5 | ✓ |
| 32 | −1° | 567 | 3 | 51.2 | −1 | 37.7 | 9.3 | ✓ |
| 33 | −1° | 568 | 3 | 51.6 | −1 | 22.2 | 9.3 | ✓ |
| 34 | −1° | 569 | 3 | 51.7 | −1 | 14.4 | 9.3 | ✓ |
| 35 | −0° | 626 | 3 | 52.0 | −0 | 49.3 | 8.5 | ✓ |
| 36 | −0° | 627 | 3 | 52.4 | −0 | 26.4 | 8.8 | ✓ |
| 37 | +0° | 684 | 3 | 51.5 | +0 | 20.2 | 8.5 | ✓ |
| 38 | +0° | 685 | 3 | 51.8 | +0 | 31.9 | 8.7 | ✓ |
| 39 | +0° | 687 | 3 | 52.6 | +0 | 58.9 | 8.7 | ✓ |
| 40 | +1° | 689 | 3 | 52.2 | +1 | 21.9 | 8.2 | ✓ |
| 41 | +1° | 691 | 3 | 52.6 | +1 | 43.1 | 9.0 | ✓ |
| 42 | +1° | 687 | 3 | 51.7 | +1 | 5.1 | 9.0 | ✓ |
| 43 | +1° | 685 | 3 | 50.9 | +1 | 2.2 | 7.4 | ✓ |
| 44 | +1° | 681 | 3 | 48.8 | +1 | 46.6 | 8.0 | ✓ |
| 45 | +1° | 679 | 3 | 47.2 | +1 | 39.0 | 8.0 | ✓ |
| 46 | +1° | 678 | 3 | 46.9 | +1 | 55.0 | 8.5 | ✓ |
| 47 | +1° | 676 | 3 | 46.6 | +1 | 44.4 | 8.2 | ✓ |
| 48 | +1° | 678 | 3 | 46.0 | +1 | 40.7 | 6.7 | ✓ |
| 49 | +0° | 675 | 3 | 46.9 | +0 | 50.5 | 7.6 | ✓ |
| 50 | +0° | 671 | 3 | 46.1 | +0 | 57.2 | 8.2 | ✓ |
| 51 | +1° | 671 | 3 | 45.3 | +1 | 18.4 | 8.0 | ✓ |
| 52 | +1° | 670 | 3 | 44.6 | +1 | 23.3 | 9.3 | ✓ |
| 53 | +1° | 669 | 3 | 44.3 | +1 | 41.3 | 8.8 | ✓ |
| 54 | +2° | 618 | 3 | 44.2 | +2 | 19.7 | 8.3 | ✓ |

cards made out

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

May 9, 1912

B23816 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 7 | $Ly5$ | |
| 56 | 10 | $F0$ | |
| 57 | 3 | $K2$ | |
| 58 | 4 | $Ly5$ | |
| 59 | 8 | $A2$ | |
| 60 | 3 | $F8$ | |
| 61 | 3 | $K0$ | |
| 62 | 4 | $K2$ | |
| 63 | 6 | $Ly0$ | |
| 64 | 7 | $B9$ | |
| 65 | 3 | $F2$ | |
| 66 | 10 | $Ly5$ | |
| 67 | 3 | $A2$ | |
| 68 | 1 | $K$ | |
| 69 | 1 | $Ly5$ | |
| 70 | 1 | $Ly$ | |
| 71 | 2 | $Ly0$ | |
| 72 | 5 | $K2$ | |
| 73 | 6 | $F2$ | |
| 74 | 9 | $Ly5$ | |
| 75 | 4 | $F2$ | |
| 76 | 3 | $Ly0$ | |
| 77 | 10+ | $B8$ | Burned out. |
| 78 | 3 | $K2$ | |
| 79 | 5 | $K2$ | |
| 80 | 7 | $K0$ | |
| 81 | 4 | $K$ | E. |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | +1° | 668 | 3″ | 43.6 | +1″ | 17.5 | 8.0 J |
| 56 | +1° | 667 | 3″ | 43.3 | +1″ | 7.3 | 7.0 V |
| 57 | +0° | 661 | 3″ | 42.8 | +0″ | 58.5 | 8.6 J |
| 58 | +0° | 659 | 3″ | 42.1 | +0″ | 56.2 | 8.3 J |
| 59 | +0° | 664 | 3″ | 43.7 | +0″ | 29.9 | 8.2 J |
| 60 | +0° | 663 | 3″ | 43.3 | +0″ | 34.3 | 8.8 J |
| 61 | −0° | 610 | 3″ | 44.2 | −0″ | 6.5 | 8.9 J |
| 62 | −0° | 609 | 3″ | 43.7 | −0″ | 27.7 | 8.8 J |
| 63 | −0° | 608 | 3″ | 43.5 | −0″ | 37.5 | 8.2 J |
| 64 | −0° | 605 | 3″ | 42.1 | −0″ | 48.6 | 8.2 J |
| 65 | −1° | 534 | 3″ | 40.7 | −1″ | 0.0 | 9.0 J |
| 66 | −0° | 602 | 3″ | 41.2 | −0″ | 13.4 | 6.5 J |
| 67 | −0° | 600 | 3″ | 40.6 | −0″ | 4.6 | 8.6 J |
| 68 | −0° | 607 | 3″ | 42.8 | −0″ | 22.6 | 9.0 J |
| 69 | −0° | 606 | 3″ | 42.4 | −0″ | 7.6 | 9.0 J |
| 70 | −0° | 601 | 3″ | 40.7 | −0″ | 21.0 | 8.8 J |
| 71 | −0° | 598 | 3″ | 39.4 | −0″ | 19.5 | 8.8 J |
| 72 | −0° | 594 | 3″ | 38.5 | −0″ | 14.4 | 7.8 J |
| 73 | +0° | 651 | 3″ | 38.3 | +0″ | 9.8 | 8.4 V |
| 74 | −0° | 593 | 3″ | 37.5 | −0″ | 45.9 | 6.2 J |
| 75 | −0° | 592 | 3″ | 37.4 | −0″ | 53.3 | 9.1 J |
| 76 | −1° | 528 | 3″ | 37.4 | −1″ | 13.3 | 9.0 J |
| 77 | −1° | 526 | 3″ | 37.2 | −1″ | 36.8 | 5.8 J |
| 78 | −2° | 707 | 3″ | 36.8 | −2″ | 25.9 | 8.3 J |
| 79 | −2° | 703 | 3″ | 36.3 | −2″ | 32.2 | 7.8 J |
| 80 | −2° | 702 | 3″ | 36.0 | −2″ | 31.8 | 7.5 J |
| 81 | −2° | 820 | 4″ | 2.3 | −2″ | 4.0 | 8.5 J |

cards made out

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

May 9, 1912

B 23816 shot disp.

| | No. | Int. | Class | Remark |
|---|---|---|---|---|
| Time 23.45 | 82 | 2 | K | |
| " 0.22 | 83 | 3 | K0 | |
| | 84 | 5 | K0 | |
| | 85 | 6 | F5 | |
| | 86 | 1 | G | |
| | 87 | 2 | G | |
| | 88 | 4 | F5 | |
| | 89 | 10 | A0 | |
| | 90 | 3 | G0 | |
| | 91 | 6 | K0 | |
| | 92 | 4 | F5 | |
| | 93 | 5 | F5 | |
| | 94 | 6 | K0 | |
| | 95 | 10 | G0 | |
| | 96 | 4 | F0 | Region of line K superposed on 97. |
| | 97 | 7 | K0 | |
| | 98 | 4 | F0 | |
| | 99 | 2 | F5 | |
| | 100 | 3 | G0 | |
| | 101 | 2 | F0 | |
| | 102 | 8 | F5 | |
| | 103 | 4 | A0 | |
| | 104 | 3 | F5 | |
| | 105 | 1 | K | |
| | 106 | 5 | G5 | |
| | 107 | 2 | F5 | |
| | 108 | 3 | A0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | −2° | 816 | 4″ | 0.4″ | −2″ | 0.7″ | 9.0″ ✓ |
| 83 | −3° | 690 | 4″ | 1.4″ | −3″ | 4.4″ | 8.3″ ✓ |
| 84 | −3° | 685 | 4″ | 0.3″ | −3″ | 23.3 | 8.0″ ✓ |
| 85 | −2° | 814 | 34″ | 0.1″ | −2″ | 45.9 | 8.2″ ✓ |
| 86 | −3° | 684 | 3″ | 59.6 | −3″ | 4.9 | 9.3″ ✓ |
| 87 | −3° | 682 | 3″ | 58.8 | −3″ | 20.8 | 9.1″ ✓ |
| 88 | −3° | 680 | 3″ | 58.4 | −3″ | 10.2 | 8.8″ ✓ |
| 89 | −2° | 798 | 3″ | 57.6 | −2″ | 49.7 | 6.8″ ✓ |
| 90 | −2° | 803 | 3″ | 58.3 | −2″ | 29.1 | 9.3″ ✓ |
| 91 | −2° | 807 | 3″ | 59.4 | −2″ | 18.2 | 8.5″ ✓ |
| 92 | −1° | 585 | 3″ | 58.9 | −1″ | 52.1 | 9.3″ ✓ |
| 93 | −1° | 584 | 3″ | 58.7 | −1″ | 45.1 | 9.0″ ✓ |
| 94 | −1° | 582 | 3″ | 58.1 | −1″ | 38.1 | 8.5″ ✓ |
| 95 | −1° | 581 | 3″ | 57.9 | −1″ | 24.6 | 7.8″ ✓ |
| 96 | −2° | 799 | 3″ | 57.8 | −2″ | 10.3 | 9.0″ ✓ |
| 97 | −2° | 800 | 3″ | 57.8 | −2″ | 17.5 | 8.6″ ✓ |
| 98 | −2° | 797 | 3″ | 57.6 | −2″ | 22.8 | 9.2″ ✓ |
| 99 | −2° | 793 | 3″ | 57.2 | −2″ | 26.7 | 9.3″ ✓ |
| 100 | −1° | 579 | 3″ | 57.0 | −1″ | 53.6 | 9.3″ ✓ |
| 101 | −1° | 578 | 3″ | 56.9 | −1″ | 39.1 | 9.5″ ✓ |
| 102 | −1° | 577 | 3″ | 56.8 | −1″ | 34.0 | 8.3″ ✓ |
| 103 | −2° | 787 | 3″ | 56.7 | −2″ | 27.1 | 9.1″ ✓ |
| 104 | −2° | 786 | 3″ | 56.5 | −2″ | 24.2 | 9.0″ ✓ |
| 105 | −2° | 785 | 3″ | 56.2 | −2″ | 19.7 | 9.3″ ✓ |
| 106 | −2° | 782 | 3″ | 56.0 | −2″ | 46.2 | 8.2″ ✓ |
| 107 | −2° | 783 | 3″ | 56.1 | −2″ | 53.9 | 9.0″ ✓ |
| 108 | −2° | 781 | 3″ | 56.0 | −2″ | 58.9 | 9.1″ ✓ |

Cards made out

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

May 19, 1919

B23816 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 1 | K0 | |
| 110 | 1 | K0 | |
| 111 | 1 | K2 | |
| 112 | 6 | F0 | |
| 113 | 4 | A2 | |
| 114 | 2 | F8 | |
| 115 | 8 | G5 | |
| 116 | 2 | K0 | |
| 117 | 4 | F8 | |
| 118 | 1 | K2 | |
| 119 | 2 | K5 | |
| 120 | 1 | F8 | |
| 121 | 10+ | A3 | Burned out. |
| 122 | 2 | K0 | |
| 123 | 7 | A3 | |
| 124 | 6 | K2 | |
| 125 | 6 | F2 | |
| 126 | 3 | A5 | Region of line K indistinct. |
| 127 | 5 | G5 | |
| 128 | 4 | G5 | |
| 129 | 5 | F8 | |
| 130 | 7 | F0 | |
| 131 | 5 | F8 | |
| 132 | 6 | F5 | |
| 133 | 4 | F2 | |
| 134 | 6 | F0 | |
| 135 | 3 | F5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 109 | −3° | 673 | 3° | 56.8 | − 3° | 1.3 | 9.0 | ✓ |
| 110 | −3° | 675 | 3° | 57.0 | − 3° | 8.2 | 9.3 | ✓ |
| 111 | −3° | 677 | 3° | 57.6 | −3° | 33.7 | 9.0 | ✓ |
| 112 | −3° | 676 | 3° | 57.3 | −3° | 44.4 | 8.0 | ✓ |
| 113 | −3° | 661 | 3° | 54.4 | −3° | 18.8 | 8.8 | ✓ |
| 114 | −3° | 659 | 3° | 54.2 | −3° | 3.1 | 9.0 | ✓ |
| 115 | −3° | 650 | 3° | 51.3 | −3° | 4.2 | 7.1 | ✓ |
| 116 | −3° | 648 | 3° | 50.6 | −3° | 0.6 | 8.8 | ✓ |
| 117 | −3° | 647 | 3° | 50.4 | −3° | 17.8 | 8.8 | ✓ |
| 118 | −3° | 645 | 3° | 50.0 | −3° | 32.7 | 8.9 | ✓ |
| 119 | −3° | 640 | 3° | 48.7 | −3° | 32.6 | 8.7 | ✓ |
| 120 | −3° | 638 | 3° | 48.4 | −3° | 33.0 | 9.2 | ✓ |
| 121 | −3° | 631 | 3° | 47.0 | −3° | 23.3 | 5.0 | ✓ |
| 122 | −2° | 764 | 3° | 50.3 | −2° | 24.0 | 8.8 | ✓ |
| 123 | −1° | 561 | 3° | 49.4 | −1° | 58.0 | 8.3 | ✓ |
| 124 | −1° | 565 | 3° | 50.2 | −1° | 33.6 | 8.7 | ✓ |
| 125 | −1° | 562 | 3° | 49.5 | −1° | 18.1 | 8.8 | ✓ |
| 126 | −1° | 559 | 3° | 48.2 | −1° | 30.5 | 9.0 | ✓ |
| 127 | −1° | 558 | 3° | 47.6 | −1° | 42.2 | 8.8 | ✓ |
| 128 | −2° | 754 | 3° | 47.0 | −2° | 9.5 | 9.0 | ✓ |
| 129 | −2° | 745 | 3° | 46.8 | −2° | 16.4 | 9.0 | ✓ |
| | | 746 | | | | | 9.4 | |
| 130 | −2° | 747 | 3° | 45.9 | −2° | 26.8 | 8.0 | ✓ |
| 131 | −2° | 742 | 3° | 45.3 | −2° | 45.9 | 8.8 | ✓ |
| 132 | −2° | 738 | 3° | 44.3 | −2° | 51.5 | 8.8 | ✓ |
| 133 | −2° | 737 | 3° | 44.2 | −2° | 24.7 | 8.9 | ✓ |
| 134 | −2° | 739 | 3° | 44.7 | −2° | 3.9 | 8.3 | ✓ |
| 135 | −1° | 550 | 3° | 45.2 | −1° | 51.2 | 9.3 | ✓ |

cards made out

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

May 10, 1912

B23816 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 5 | A2 | |
| 137 | 10 | B9 | |
| 138 | 3 | Ma | |
| 139 | 10 | A3 | |
| 140 | 3 | A0 | |
| 141 | 2 | A0 | |
| 142 | 6 | F8 | |
| 143 | 2 | F8 | |
| 144 | 6 | F0 | |
| 145 | 3 | F0 | |
| 146 | 2 | G0 | |
| 147 | 2 | F8 | |
| 148 | 1 | A0 | |
| 149 | 1 | A | |
| 150 | 2 | F8 | |
| 151 | 10 | F0 | |
| 152 | 1 | K2 | |
| 153 | 2 | F | |
| 154 | 4 | F5 | |
| 155 | 9 | F8 | |
| 156 | 1 | K | |
| 157 | 3 | A0 | |
| 158 | 6 | G5 | |
| 159 | 4 | K2 | |
| 160 | 2 | K2 | |
| 161 | 4 | K0 | |
| 162 | 8 | G5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 136 | −1° | 55′1 | 3″ | 45″.3 | −1′ | 26″.0 | 8″.8 | ✓ |
| 137 | −1° | 54′8 | 3″ | 44″.8 | −1′ | 34″.3 | 7″.0 | ✓ |
| 138 | −1° | 54′6 | 3″ | 44″.1 | −1′ | 49″.1 | 9″.0 | ✓ |
| 139 | −1° | 54′9 | 3″ | 44″.9 | −1′ | 5″.0 | 7″.3 | ✓ |
| 140 | −0° | 61′1 | 3″ | 44″.4 | −0′ | 57″.8 | 8″.8 | ✓ |
| 141 | −0° | 61′3 | 3″ | 45″.5 | −0′ | 26″.4 | 9″.0 | ✓ |
| 142 | −0° | 61′7 | 3″ | 46″.8 | −0′ | 8″.4 | 8″.3 | ✓ |
| 143 | −0° | 61′6 | 3″ | 46″.8 | −0′ | 34″.7 | 8″.5 | ✓ |
| 144 | −0° | 61′8 | 3″ | 47″.5 | −0′ | 25″.1 | 8″.3 | ✓ |
| 145 | +0° | 67′8 | 3″ | 48″.7 | +0′ | 16″.2 | 8″.7 | ✓ |
| 146 | +0° | 67′2 | 3″ | 46″.6 | +0′ | 33″.6 | 8″.9 | ✓ |
| 147 | +0° | 67′0 | 3″ | 45″.3 | +0′ | 42″.4 | 9″.0 | ✓ |
| 148 | +0° | 66′8 | 3″ | 44″.8 | +0′ | 49″.2 | 9″.2 | ✓ |
| 149 | −1° | 55′6 | 3″ | 46″.9 | −1′ | 31″.6 | 9″.5 | ✓ |
| 150 | −1° | 55′4 | 3″ | 46″.5 | −1′ | 35″.7 | 9″.5 | ✓ |
| 151 | −1° | 54′4 | 3″ | 42″.9 | −1′ | 58″.1 | 7″.0 | ✓ |
| 152 | −2° | 73′1 | 3″ | 42″.7 | −2′ | 25″.3 | 9″.1 | ✓ |
| 153 | −2° | 73′5 | 3″ | 43″.6 | −2′ | 49″.6 | 9″.2 | ✓ |
| 154 | −2° | 73′0 | 3″ | 42″.7 | −2′ | 44″.2 | 8″.8 | ✓ |
| 155 | −2° | 72′6 | 3″ | 42″.3 | −2′ | 46″.5 | 7″.3 | ✓ |
| 156 | −3° | 61′8 | 3″ | 42″.1 | −3′ | 2″.2 | 9″.3 | ✓ |
| 157 | −3° | 61′9 | 3″ | 42″.5 | −3′ | 23″.1 | 9″.0 | ✓ |
| 158 | −2° | 72′3 | 3″ | 41″.4 | −2′ | 52″.7 | 7″.8 | ✓ |
| 159 | −2° | 72′1 | 3″ | 41″.1 | −2′ | 35″.0 | 8″.3 | ✓ |
| 160 | −2° | 72′2 | 3″ | 41″.2 | −2′ | 31″.0 | 9″.1 | ✓ |
| 161 | −1° | 53′6 | 3″ | 41″.1 | −1′ | 57″.7 | 9″.0 | ✓ |
| 162 | −1° | 53′9 | 3″ | 42″.0 | −1′ | 58″.2 | 7″.5 | ✓ |

cards made out

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

May 12, 1910

B 23816 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 163 | 3 | fg5 | Partly superposed on 162. |
| 164 | 2 | fg5 | |
| 165 | 3 | fg0 | |
| 166 | 2 | fg5 | |
| 167 | 1 | F | |
| 168 | 10 | A2 | |
| 169 | 4 | F2 | |
| 170 | 6 | F5 | |
| 171 | 5 | F5 | |
| 172 | 7 | A3 | |
| 173 | 5 | F5 | |
| 174 | 8 | F5 | |
| 175 | 7 | K0 | |
| 176 | 7 | fg0 | |
| 177 | 6 | K0 | |
| 178 | 4 | A5 | Poor focus. |
| 179 | 8 | fg0 | |
| 180 | 4 | fg0 | |
| 181 | 2 | F | |
| 182 | 2 | F8 | |
| 183 | 2 | fg5 | |
| 184 | 4 | K | Another star partly superposed. |
| 185 | 2 | fg5 | |
| 186 | 3 | F | E. |
| 187 | 8 | K | E. |
| 188 | 4 | fg5 | Partly superposed on 187. |
| 189 | 10 | G | E. |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 163 | −1° | 535 | 3° | 42.0 | −1° | 58.7 | 9.0 | ✓ |
| 164 | Appox pos (1855) | | 3 | 42.2 | −1 | 30. | | ✓ |
| 165 | −1° | 540 | 3° | 42.0 | −1° | 18.1 | 9.0 | ✓ |
| 166 | −1° | 537 | 3° | 41.7 | −1° | 32.9 | 9.0 | ✓ |
| 167 | −1° | 542 | 3° | 42.3 | −1° | 8.8 | 9.5 | ✓ |
| 168 | −3° | 616 | 3° | 40.7 | −3° | 18.7 | 7.2 | ✓ |
| 169 | −3° | 615 | 3° | 40.6 | −3° | 9.3 | 8.9 | ✓ |
| 170 | −3° | 614 | 3° | 40.5 | −3° | 1.3 | 8.2 | ✓ |
| 171 | −2° | 717 | 3° | 40.1 | −2° | 45.3 | 8.8 | ✓ |
| 172 | −3° | 629 | 3° | 46.0 | −3° | 43.5 | 8.3 | ✓ |
| 173 | −3° | 625 | 3° | 44.8 | −3° | 51.4 | 8.5 | ✓ |
| 174 | −4° | 682 | 3° | 44.9 | −4° | 2.2 | 7.8 | ✓ |
| 175 | −4° | 674 | 3° | 43.1 | −4° | 19.7 | 7.5 | ✓ |
| 176 | −5° | 762 | 3° | 43.5 | −5° | 3.1 | 8.0 | ✓ |
| 177 | −5° | 758 | 3° | 43.2 | −5° | 31.1 | 8.2 | ✓ |
| 178 | −4° | 672 | 3° | 42.3 | −4° | 58.1 | 8.7 | ✓ |
| 179 | −4° | 670 | 3° | 41.4 | −4° | 52.0 | 7.3 | ✓ |
| 180 | −4° | 668 | 3° | 41.3 | −4° | 58.4 | 8.4 | ✓ |
| 181 | −4° | 669 | 3° | 41.4 | −4° | 19.4 | 9.2 | ✓ |
| 182 | −3° | 620 | 3° | 42.6 | −3° | 44.0 | 9.4 | ✓ |
| 183 | −3° | 617 | 3° | 40.8 | −3° | 39.6 | 9.1 | ✓ |
| 184 | −3° | 612 | 3° | 40.0 | −3° | 44.8 | 9.0 | ✓ |
| 185 | −4° | 664 | 3° | 39.9 | −4° | 1.4 | 9.5 | ✓ |
| 186 | −5° | 746 | 3° | 40.2 | −5° | 2.9 | 9.0 | ✓ |
| 187 | −5° | 749 | 3° | 40.6 | −5° | 17.3 | 7.5 | ✓ |
| 188 | −5° | 748 | 3° | 40.6 | −5° | 21.7 | 8.9 | ✓ |
| 189 | −3° | 696 | 4° | 2.6 | −3° | 57.2 | 6.5 | ✓ |

Cards made out

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

May 10, 1912

B 2381 6 shot disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 190 | 4 | A | E. |
| 191 | 3 | F5 | E. |
| 192 | 2 | K2 | E. |
| 193 | 3 | A | E. |
| 194 | 4 | F8 | |
| 195 | 3 | A5 | |
| 196 | 7 | K5 | Focus poor. Maybe Nia. |
| 197 | 5 | A3 | |
| 198 | 3 | K2 | |
| 199 | 3 | F8 | |
| 200 | 2 | A2 | |
| 201 | 2 | G5 | |
| 202 | 3 | G5 | |
| 203 | 7 | A2 | |
| 204 | 2 | A | |
| 205 | 2 | F5 | |
| 206 | 1 | G | |
| 207 | 1 | G | |
| 208 | 8 | G5 | |
| 209 | 3 | F2 | |
| 210 | 9 | F5 | |
| 211 | 4 | F5 | |
| 212 | 5 | G5 | |
| 213 | 1 | G | |
| 214 | 8 | F5 | |
| 215 | 1 | K | Partly superposed on 214. |
| 216 | 9 | F | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 190 | −4° | 744 | 4 | 1.3 | −4 | 24.1 | 8.3 | ✓ |
| 191 | −4° | 743 | 4 | 0.8 | −4 | 23.5 | 8.5 | ✓ |
| 192 | −4° | 742 | 4 | 0.8 | −4 | 34.4 | 8.3 | ✓ |
| 193 | −4° | 736 | 3 | 59.9 | −4 | 45.6 | 8.8 | ✓ |
| 194 | −4° | 729 | 3 | 58.0 | −4 | 30.5 | 8.7 | ✓ |
| 195 | −4° | 726 | 3 | 57.1 | −4 | 36.8 | 8.8 | ✓ |
| 196 | −5° | 810 | 3 | 56.9 | −5 | 0.2 | 7.0 | ✓ |
| 197 | −4° | 722 | 3 | 58.0 | −4 | 55.4 | 8.3 | ✓ |
| 198 | −4° | 723 | 3 | 55.1 | −4 | 42.1 | 8.3 | ✓ |
| 199 | −4° | 721 | 3 | 55.0 | −4 | 27.3 | 8.8 | ✓ |
| 200 | −4° | 719 | 3 | 54.7 | −4 | 32.1 | 9.0 | ✓ |
| 201 | −4° | 716 | 3 | 54.0 | −4 | 47.8 | 9.0 | ✓ |
| 202 | −5° | 795 | 3 | 53.8 | −5 | 7.6 | 8.8 | ✓ |
| 203 | −4° | 709 | 3 | 52.6 | −4 | 56.1 | 8.2 | ✓ |
| 204 | −4° | 714 | 3 | 53.4 | −4 | 30.1 | 9.3 | ✓ |
| 205 | −4° | 712 | 3 | 53.0 | −4 | 27.7 | 9.1 | ✓ |
| 206 | −3° | 658 | 3 | 53.8 | −3 | 54.9 | 9.0 | ✓ |
| 207 | −3° | 655 | 3 | 52.4 | −3 | 53.1 | 9.2 | ✓ |
| 208 | −4° | 706 | 3 | 51.4 | −4 | 3.6 | 7.5 | ✓ |
| 209 | −4° | 699 | 3 | 50.2 | −4 | 38.3 | 8.3 | ✓ |
| 210 | −4° | 694 | 3 | 48.6 | −4 | 56.8 | 7.2 | ✓ |
| 211 | −4° | 690 | 3 | 47.5 | −4 | 47.0 | 8.5 | ✓ |
| 212 | −4° | 689 | 3 | 47.4 | −4 | 36.1 | 7.8 | ✓ |
| 213 | −4° | 686 | 3 | 46.3 | −4 | 24.5 | 9.1 | ✓ |
| 214 | −4° | 684 | 3 | 45.8 | −4 | 48.0 | 7.5 | ✓ |
| 215 | −4° | 683 | 3 | 45.7 | −4 | 53.1 | 7.9 | ✓ |
| 216 | −5° | 768 | 3 | 45.3 | −5 | 29.5 | 7.0 | ✓ |

cards made out

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

May 10, 1913

B 29816 shot disp.

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 217 | 10 | B8? | Burned out |
| 218 | 1 | Ma | |
| 219 | 7 | F | |
| 220 | 3 | K5 | |
| 221 | 4 | K0 | |
| 222 | 5 | A5 | |
| 223 | 4 | K5 | |
| 224 | 10 | K | Burned out. |
| Time: 10.53 225 | 4 | F5 | |
| [illegible] | | | |

cont. in Bk. 128, P. 138



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 217 | -5° | 769 | 3° | 45.5 | -5° | 47.8 | 5.7 | ✓ |
| 218 | -5° | 871 | 3° | 46.4 | -5° | 27.2 | 8.9 | ✓ |
| 219 | -5° | 875 | 3° | 48.0 | -5° | 24.4 | 8.2 | ✓ |
| 220 | -5° | 879 | 3° | 49.1 | -5° | 34.5 | 8.5 | ✓ |
| 221 | -6° | 789 | 3° | 49.6 | -6° | 2.8 | 8.7 | ✓ |
| 222 | -5° | 785 | 3° | 50.4 | -5° | 59.2 | 9.0 | ✓ |
| 223 | -6° | 795 | 3° | 50.9 | -6° | 10.5 | 8.7 | ✓ |
| 224 | -5° | 789 | 3° | 51.7 | -5° | 52.7 | 6.0 | ✓ |
| 225 | -5° | 787 | 3° | 51.0 | -5° | 19.2 | 8.5 | ✓ |

Identified by AMC June 17, 1912
Checked by J.B.W. Sept. 7, 1912
cards made out by M.C.W.

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

Friday May 10, 1912

Trieste 2.00 B23809 Slant sep.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 1 | 5 | F | E |
| 2 | 8 | G5 | |
| 3 | 2 | G5 | |
| 4 | 10 | G5 | |
| 5 | 3 | F | Region of K faintly suspected on it |
| 6 | 5 | K0 | |
| 7 | 4 | K2 | |
| 8 | 4 | G5 | |
| 9 | 5 | F0 | |
| 10 | 8 | A2 | |
| 11 | 7 | A3 | |
| 12 | 10+ | a | Burned out |
| 13 | 1 | G | |
| 14 | 5 | A5 | |
| 15 | 4 | A5 | E |
| 16 | 4 | K2 | E |
| 17 | 5 | F0 | |
| 18 | 3 | F5 | |
| 19 | 8 | G5 | |
| 20 | 7 | A0 | |
| 21 | 8 | A3 | |
| 22 | 6 | G0 | |
| 23 | 3 | K0 | |
| 24 | 4 | G5 | |
| 25 | 2 | G0 | |
| 26 | 3 | K5 | |
| 27 | 4 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | −4° | 585 | 3 | 17.3 | −4 | 2.9 | 8.0 | V |
| 2 | −4° | 586 | 3 | 17.9 | −4 | 59.5 | 6.9 | V |
| 3 | −5° | 639 | 3 | 17.7 | −5 | 13.5 | 8.8 | V |
| 4 | −5° | 644 | 3 | 18.1 | −5 | 10.1 | 7.0 | V |
| 5 | −5° | 646 | 3 | 18.3 | −5 | 3.8 | 9.0 | V |
| 6 | −4° | 591 | 3 | 18.6 | −4 | 35.1 | 8.7 | V |
| 7 | −4° | 593 | 3 | 19.0 | −4 | 53.0 | 8.5 | V |
| 8 | −5° | 660 | 3 | 19.8 | −5 | 15.4 | 9.0 | V |
| 9 | −5° | 664 | 3 | 20.1 | −5 | 24.3 | 9.1 | V |
| 10 | −5° | 668 | 3 | 21.1 | −5 | 4.1 | 8.2 | V |
| 11 | −5° | 672 | 3 | 22.9 | −5 | 21.4 | 8.3 | V |
| 12 | −5° | 674 | 3 | 23.4 | −5 | 34.4 | 5.0 | V |
| 13 | −5° | 679 | 3 | 24.2 | −5 | 33.2 | 9.4 | V |
| 14 | −4° | 604 | 3 | 22.0 | −4 | 17.9 | 8.6 | V |
| 15 | −3° | 553 | 3 | 19.8 | −3 | 47.2 | 8.9 | V |
| 16 | −3° | 554 | 3 | 20.1 | −3 | 37.3 | 8.0 | V |
| 17 | −3° | 560 | 3 | 21.4 | −3 | 43.1 | 8.6 | V |
| 18 | −3° | 565 | 3 | 24.1 | −3 | 24.1 | 8.5 | V |
| 19 | −4° | 613 | 3 | 24.4 | −4 | 0.0 | 7.3 | V |
| 20 | −3° | 570 | 3 | 25.2 | −3 | 48.3 | 8.2 | V |
| 21 | −4° | 609 | 3 | 23.4 | −4 | 46.6 | 7.8 | V |
| 22 | −4° | 618 | 3 | 25.2 | −4 | 51.3 | 8.1 | V |
| 23 | −4° | 619 | 3 | 25.5 | −4 | 54.6 | 8.4 | V |
| 24 | −4° | 621 | 3 | 26.2 | −4 | 52.2 | 7.4 | V |
| 25 | −5° | 684 | 3 | 26.0 | −5 | 6.4 | 9.1 | V |
| 26 | −4° | 622 | 3 | 26.3 | −4 | 29.1 | 8.0 | V |
| 27 | −3° | 574 | 3 | 27.1 | −3 | 42.7 | 8.2 | V |

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May 10, 1912 (Cont.)

B 23509 (Short disp.)

| No. | Dut. | class | Remark |
|---|---|---|---|
| 28 | 9 | Q2 | |
| 29 | 3 | K0 | |
| 30 | 3 | K0 | |
| 31 | 3 | F0 | |
| 32 | 2 | K5 | |
| 33 | 1 | K | |
| 34 | 1 | ? | Difficult |
| 35 | 2 | Q | Partly superposed on 36 |
| 36 | 8 | K5 | |
| 37 | 3 | F0 | |
| 38 | 1 | F | |
| 39 | 1 | K5 | |
| 40 | 2 | K2 | |
| 41 | 2 | K0 | |
| 42 | 3 | F5 | |
| 43 | 9 | K | Burned out |
| 44 | 8 | F8 | " |
| 45 | 5 | G | E |
| 46 | 7 | Q5 | |
| 47 | 9 | Q0 | |
| 48 | 3 | F5 | |
| 49 | 5 | Q0 | |
| 50 | 2 | K5 | E. |
| 51 | 3 | K2 | |
| 52 | 2 | K0 | |
| 53 | 10 | K0 | |
| 54 | 1 | K | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | - 3° | 57.6 | 3 | 27.6 | - 3 | 53.8 | 7.4 ✓ |
| 29 | - 4° | 6 30 | 3 | 28.5 | - 4 | 20.7 | 8.7 ✓ |
| 30 | - 4° | 6 32 | 3 | 29.2 | - 4 | 7.0 | 8.5 ✓ |
| 31 | - 4° | 6.29 | 3 | 28.5 | - 4 | 51.0 | 9.0 ✓ |
| 32 | - 5° | 69.5 | 3 | 27.9 | - 5 | 23.3 | 8.5 ✓ |
| 33 | - 5° | 68.7 | 3 | 27.0 | - 5 | 32.9 | 8.8 ✓ |
| 34 | - 5° | 69.4 | 3 | 27.8 | - 5 | 40.9 | 9.3 ✓ |
| 35 | - 5° | 69.7 | 3 | 28.9 | - 5 | 29.4 | 9.6 ✓ |
| 36 | - 5° | 69.6 | 3 | 28.8 | - 5 | 36.5 | 6.5 ✓ |
| 37 | - 6° | 70.4 | 3 | 29.1 | - 6 | 4.5 | 8.8 ✓ |
| 38 | - 5° | 69.9 | 3 | 29.5 | - 5 | 30.0 | 9.3 ✓ |
| 39 | - 5° | 70.1 | 3 | 30.1 | - 5 | 8.3 | 9.0 ✓ |
| 40 | - 4° | 63.6 | 3 | 30.8 | - 4 | 48.6 | 8.9 ✓ |
| 41 | - 4° | 64.0 | 3 | 32.1 | - 4 | 46.9 | 9.0 ✓ |
| 42 | - 4° | 64.1 | 3 | 32.4 | - 4 | 37.7 | 9.1 ✓ |
| 43 | - 3° | 59.1 | 3 | 32.4 | - 3 | 52.0 | 6.3 ✓ |
| 44 | - 3° | 59.2 | 3 | 33.0 | - 3 | 41.3 | 7.2 ✓ |
| 45 | - 3° | 59.7 | 3 | 34.4 | - 3 | 18.7 | 8.0 ✓ |
| 46 | - 4° | 64.7 | 3 | 33.5 | - 4 | 37.2 | 8.3 ✓ |
| 47 | - 5° | 72.4 | 3 | 35.5 | - 5 | 3.9 | 7.7 ✓ |
| 48 | - 5° | 72.9 | 3 | 36.5 | - 5 | 18.5 | 8.8 ✓ |
| 49 | - 4° | 65.5 | 3 | 36.7 | - 4 | 44.2 | 8.5 ✓ |
| 50 | - 3° | 60.5 | 3 | 37.3 | - 3 | 57.6 | 8.9 ✓ |
| 51 | - 6° | 71.2 | 3 | 31.3 | - 6 | 23.3 | 8.6 ✓ |
| 52 | - 6° | 71.1 | 3 | 31.3 | - 6 | 30.0 | 9.0 ✓ |
| 53 | - 6° | 71.3 | 3 | 31.9 | - 6 | 5.9 | 6.8 ✓ |
| 54 | - 5° | 71.1 | 3 | 32.8 | - 5 | 34.9 | 8.9 ✓ |

conds made out

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

May 10, 1912 (cont.)

B 23809 Shot disp.

| No. | Dist. | Class | Remark |
|---|---|---|---|
| 55 | 10+ | A | Ruined att. |
| 56 | 5 | F8 | |
| 57 | 5 | A3 | |
| 58 | 4 | F0 | |
| 59 | 1. | F | |
| 60 | 2 | K2 | |
| 61 | 2 | K0 | |
| 62 | 2 | F0 | |
| 63 | 9 | A2 | |
| 64 | 2 | F8 | |
| 65 | 1 | F5 | |
| 66 | 2 | K0 | |
| 67 | 2 | A | |
| 68 | 2 | K5 | |
| 69 | 1 | K | |
| 70 | 3 | K0 | |
| 71 | 4 | F8 | |
| 72 | 3 | A | |
| 73 | 3 | K0 | |
| 74 | 3 | K2 | |
| 75 | 4 | G0 | |
| 76 | 8 | A | |
| 77 | 6 | A2 | |
| 78 | 5 | G | E. |
| 79 | 2 | K | E |
| 80 | 5 | G0 | |
| 81 | 5 | M | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 58 | -5° | 7'15 | 3' | 33'.5 | -5' | 40'.8 | 5'.5 | J |
| 56 | -5° | 7'18 | 3' | 34'.0 | -5' | 45'.5 | 8'.5 | v |
| 57 | -5° | 7'21 | 3' | 34'.6 | -5' | 42'.5 | 8'.6 | v |
| 58 | -6° | 7'25 | 3' | 34'.1 | -6' | 9'.0 | 9'.0 | ✓ |
| 59 | -6° | 7'24 | 3' | 34'.1 | -6' | 18'.4 | 9'.1 | ✓ |
| 60 | -6° | 7'26 | 3' | 34'.4 | -6' | 32'.3 | 8'.7 | J |
| 61 | -6° | 7'22 | 3' | 33'.7 | -6' | 40'.6 | 8'.8 | J |
| 62 | -6° | 7'14 | 3' | 32'.0 | -6' | 58'.4 | 9'.0 | ✓ |
| 63 | -7° | 6'54 | 3' | 32'.7 | -7' | 15'.1 | 7'.0 | ✓ |
| 64 | -7° | 6'53 | 3' | 32'.4 | -7' | 31'.4 | 9'.1 | ✓ |
| 65 | -6° | 7'13 | 3' | 34'.0 | -6' | 58'.5 | 9'.5 | J |
| 66 | -7° | 6'55 | 3' | 33'.9 | -7' | 10'.2 | 9'.0 | ✓ |
| 67 | -7° | 6'56 | 3' | 34'.4 | -7' | 1'.1 | 9'.3 | J |
| 68 | -6° | 7'28 | 3' | 34'.8 | -6' | 53'.1 | 8'.7 | J |
| 69 | -6° | 7'34 | 3' | 36'.5 | -6' | 18'.4 | 9'.0 | v |
| 70 | -6° | 7'38 | 3' | 37'.1 | -6' | 21'.9 | 9'.0 | J |
| 71 | -6° | 7'36 | 3' | 36'.9 | -6' | 31'.0 | 9'.0 | J |
| 72 | -5° | 7'38 | 3' | 38'.7 | -5' | 45'.7 | 9'.0 | v |
| 73 | -6° | 7'46 | 3' | 38'.8 | -6' | 24'.8 | 9'.0 | J |
| 74 | -6° | 7'43 | 3' | 38'.5 | -6' | 46'.6 | 9'.0 | J |
| 75 | -6° | 7'45 | 3' | 38'.8 | -6' | 56'.4 | 9'.0 | J |
| 76 | -7° | 6'81 | 3' | 40'.7 | -7' | 28'.5 | 8'.0 | v |
| 77 | -7° | 6'82 | 3' | 41'.1 | -7' | 2'.5 | 8'.4 | J |
| 78 | -6° | 7'54 | 3' | 41'.4 | -6' | 46'.9 | 8'.5 | J |
| 79 | -6° | 7'56 | 3' | 42'.2 | -6' | 42'.7 | 9'.0 | J |
| 80 | -7° | 6'84 | 3' | 41'.6 | -7' | 15'.8 | 8'.0 | J |
| 81 | -7° | 6'85 | 3' | 41'.7 | -7' | 27'.5 | 7'.0 | J |

cards made out

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

May 10, 1912 (Cont'd)

B 2.3809 Ghost diff.

| No. | Dist. | Class | Remark |
|---|---|---|---|
| 82 | 10+ | B | Burned out. |
| 83 | 5 | A5 | E. |
| 84 | 3 | K | E. |
| 85 | 3 | G | E. |
| 86 | 4 | K0 | |
| 87 | 3 | G0 | |
| 88 | 1 | G5 | |
| 89 | 2 | G0 | |
| 90 | 1 | F | |
| 91 | 2 | G5 | |
| 92 | 4 | F2 | |
| 93 | 6 | F8 | |
| 94 | 1 | K | |
| 95 | 4 | A2 | |
| 96 | 4 | A2 | |
| 97 | 2 | K0 | |
| 98 | 6 | G0 | |
| 99 | 1 | G | |
| 100 | 10 | G5 | |
| 101 | 3 | F2 | |
| 102 | 1 | K | |
| 103 | 2 | K2 | |
| 104 | 2 | G0 | |
| 105 | 1 | G5 | |
| 106 | 6 | G5 | |
| 107 | 3 | F5 | |
| 108 | 3 | K5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | -7° | 695 | 3 | 46.0 | -7 | 3.7 | 6.6 |
| 83 | -6° | 779 | 3 | 47.3 | -6 | 17.0 | 8.2 |
| 84 | -6° | 778 | 3 | 47.0 | -6 | 57.2 | 8.3 |
| 85 | -7° | 687 | 3 | 42.8 | -7 | 58.0 | 8.7 |
| 86 | -5° | 642 | 3 | 17.9 | -5 | 51.0 | 7.9 |
| 87 | -5° | 656 | 3 | 19.4 | -5 | 58.5 | 8.8 |
| 88 | -5° | 662 | 3 | 19.9 | -5 | 54.5 | 9.1 |
| 89 | -6° | 669 | 3 | 16.5 | -6 | 31.6 | 9.1 |
| 90 | -6° | 671 | 3 | 16.7 | -6 | 29.1 | 9.4 |
| 91 | -6° | 670 | 3 | 16.7 | -6 | 6.9 | 9.0 |
| 92 | -7° | 593 | 3 | 17.0 | -7 | 13.2 | 8.7 |
| 93 | -7° | 596 | 3 | 18.1 | -7 | 14.7 | 8.0 |
| 94 | -7° | 597 | 3 | 18.4 | -7 | 12.3 | 9.1 |
| 95 | -7° | 598 | 3 | 18.8 | -7 | 38.1 | 8.6 |
| 96 | -7° | 601 | 3 | 20.4 | -7 | 28.4 | 8.9 |
| 97 | -7° | 602 | 3 | 20.6 | -7 | 35.3 | 9.1 |
| 98 | -7° | 603 | 3 | 21.2 | -7 | 1.6 | 8.2 |
| 99 | -7° | 604 | 3 | 21.2 | -7 | 18.2 | 9.2 |
| 100 | -7° | 606 | 3 | 22.5 | -7 | 18.3 | 6.2 |
| 101 | -7° | 607 | 3 | 22.9 | -7 | 29.4 | 8.6 |
| 102 | -7° | 610 | 3 | 23.0 | -7 | 12.4 | 8.9 |
| 103 | -6° | 682 | 3 | 22.2 | -6 | 36.4 | 9.0 |
| 104 | -6° | 681 | 3 | 21.9 | -6 | 10.0 | 9.0 |
| 105 | -6° | 683 | 3 | 22.2 | -6 | 3.5 | 9.0 |
| 106 | -6° | 690 | 3 | 23.9 | -6 | 7.8 | 8.1 |
| 107 | -6° | 685 | 3 | 22.9 | -6 | 46.7 | 9.0 |
| 108 | -6° | 689 | 3 | 23.7 | -6 | 43.1 | 8.6 |

Condensation made out

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

May 10, 1912 (Cont.)

B 2389 Shut.

| No. | Dist. | class | Remark |
|---|---|---|---|
| 109 | 2 | G | Another star superposed 109 = the n.f. |
| 110 | 2 | G | the n.f. of this. |
| 111 | 2 | K2 | |
| 112 | 5 | A2 | |
| 113 | 2 | K2 | |
| 114 | 8 | F8 | |
| 115 | 5 | F5 | |
| 116 | 8 | A5 | |
| 117 | 8 | F0 | Partly superposed on 116 |
| 118 | 3 | K5 | |
| 119 | 5 | K0 | |
| 120 | 1 | K | |
| 121 | 3 | A5 | |
| 122 | 2 | G5 | |
| 123 | 1 | K | |
| 124 | 4 | B8 | |
| 125 | 4 | G0 | |
| 126 | 10 | G5 | |
| 127 | 4 | G5 | |
| 128 | 5 | G0 | |
| 129 | 2 | G5 | Partly superposed on 128 |
| 130 | 4 | K0 | |
| 131 | 1 | K | |
| 132 | 8 | G5 | |
| 133 | 5 | G5 | |
| 134 | 3 | K | Another star partly superposed |
| 135 | 4 | G5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 109 | -6° | 687 | 3 | 23.4 | -6 | 55.4 | 9.3 | ✓ |
| 110 | -7° | 614 | 3 | 23.6 | -7 | 12.8 | 9.3 | ✓ |
| 111 | -6° | 694 | 3 | 24.6 | -6 | 33.5 | 8.6 | ✓ |
| 112 | -6° | 695 | 3 | 25.1 | -6 | 29.2 | 8.5 | ✓ |
| 113 | -7° | 617 | 3 | 24.9 | -7 | 18.8 | 8.8 | ✓ |
| 114 | -7° | 618 | 3 | 25.2 | -7 | 34.7 | 7.3 | ✓ |
| 115 | -7° | 622 | 3 | 25.8 | -7 | 49.4 | 8.7 | ✓ |
| 116 | -7° | 624 | 3 | 26.6 | -7 | 54.1 | 7.7 | ✓ |
| 117 | -7° | 625 | 3 | 26.6 | -7 | 55.3 | 8.2 | ✓ |
| 118 | -7° | 629 | 3 | 27.6 | -7 | 51.8 | 8.5 | ✓ |
| 119 | -7° | 627 | 3 | 27.2 | -7 | 0.1 | 7.8 | ✓ |
| 120 | -6° | 702 | 3 | 27.6 | -6 | 53.1 | 9.1 | ✓ |
| 121 | -7° | 631 | 3 | 28.5 | -7 | 8.8 | 8.7 | ✓ |
| 122 | -7° | 637 | 3 | 29.6 | -7 | 5.8 | 9.1 | ✓ |
| 123 | -7° | 633 | 3 | 29.0 | -7 | 38.6 | 9.1 | ✓ |
| 124 | -7° | 638 | 3 | 29.7 | -7 | 36.5 | 9.1 | ✓ |
| 125 | -7° | 642 | 3 | 30.8 | -7 | 27.4 | 9.0 | ✓ |
| 126 | -7° | 647 | 3 | 31.4 | -7 | 51.6 | 6.0 | ✓ |
| 127 | -7° | 644 | 3 | 31.1 | -7 | 57.6 | 7.7 | ✓ |
| 128 | -8° | 688 | 3 | 30.8 | -8 | 7.5 | 8.3 | ✓ |
| 129 | -8° | 685 | 3 | 30.8 | -8 | 8.6 | 8.8 | ✓ |
| 130 | -8° | 690 | 3 | 31.0 | -8 | 21.1 | 8.0 | ✓ |
| 131 | -8° | 683 | 3 | 30.7 | -8 | 44.0 | 9.0 | ✓ |
| 132 | -8° | 692 | 3 | 31.8 | -8 | 58.7 | 7.2 | ✓ |
| 133 | -8° | 694 | 3 | 32.4 | -8 | 29.2 | 8.3 | ✓ |
| 134 | -8° | 696 | 3 | 32.6 | -8 | 18.3 | 8.3 | ✓ |
| 135 | -8° | 699 | 3 | 33.2 | -8 | 33.4 | 8.0 | ✓ |

Cards made out

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May 10, 1912 (cont.)

B 2389 Chart

| No. | Int. | class | Remark |
|---|---|---|---|
| 136 | 3 | K5 | |
| 137 | 3 | F0 | |
| 138 | 4 | A3 | |
| 139 | 1 | K | |
| 140 | 4 | F2 | |
| 141 | 8 | G5 | |
| 142 | 2 | F2 | |
| 143 | 2 | G | |
| 144 | 8 | Bg | |
| 145 | 1 | G | |
| 146 | 7 | Bg | |
| 147 | 6 | F0 | |
| 148 | 5 | A | Poor focus |
| 149 | 7 | F5 | |
| 150 | 3 | K2 | |
| 151 | 6 | K0 | |
| 152 | 1 | A3 | |
| 153 | 2 | K5 | |
| 154 | 8 | A0 | |
| 155 | 3 | K0 | |
| 156 | 6 | F8 | |
| 157 | 3 | F0 | |
| 158 | 4 | A3 | |
| 159 | 1 | G | |
| 160 | 2 | K0 | |
| 161 | 4 | A2 | |
| 162 | 7 | G5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 136 | −7° | 658 | 3° | 35.0 | −7 | 42.5 | 8.5 |
| 137 | −8° | 706 | 3° | 35.3 | −8 | 8.3 | 9.0 |
| 138 | −7° | 663 | 3° | 36.1 | −7 | 57.7 | 9.1 |
| 139 | −8° | 708 | 3° | 35.9 | −8 | 33.9 | 9.1 |
| 140 | −8° | 709 | 3° | 36.5 | −8 | 31.7 | 8.8 |
| 141 | −8° | 710 | 3° | 36.9 | −8 | 20.4 | 7.5 |
| 142 | −8° | 712 | 3° | 37.3 | −8 | 13.0 | 9.2 |
| 143 | −8° | 716 | 3° | 37.7 | −8 | 30.0 | 9.3 |
| 144 | −8° | 718 | 3° | 38.4 | −8 | 23.8 | 7.9 |
| 145 | −7° | 674 | 3° | 38.3 | −7 | 41.7 | 9.1 |
| 146 | −9° | 738 | 3° | 37.5 | −9 | 3.1 | 8.3 |
| 147 | −8° | 723 | 3° | 39.4 | −8 | 37.4 | 8.3 |
| 148 | −8° | 725 | 3° | 40.0 | −8 | 49.1 | 8.4 |
| 149 | −8° | 728 | 3° | 41.1 | −8 | 29.4 | 8.3 |
| 150 | −8° | 648 | 3° | 18.7 | −8 | 43.7 | 8.2 |
| 151 | −8° | 653 | 3° | 19.9 | −8 | 29.7 | 7.8 |
| 152 | −7° | 608 | 3° | 23.0 | −7 | 55.0 | 9.3 |
| 153 | −8° | 664 | 3° | 24.0 | −8 | 36.4 | 9.0 |
| 154 | −8° | 666 | 3° | 25.0 | −8 | 19.5 | 7.3 |
| 155 | −8° | 668 | 3° | 25.4 | −8 | 57.5 | 8.3 |
| 156 | −9° | 693 | 3° | 25.4 | −9 | 5.5 | 7.5 |
| 157 | −9° | 691 | 3° | 25.0 | −9 | 18.3 | 8.6 |
| 158 | −8° | 675 | 3° | 28.1 | −8 | 21.2 | 8.8 |
| 159 | −8° | 676 | 3° | 28.7 | −8 | 16.8 | 9.1 |
| 160 | −9° | 707 | 3° | 28.3 | −9 | 15.3 | 8.8 |
| 161 | −9° | 708 | 3° | 28.7 | −9 | 28.7 | 8.8 |
| 162 | −9° | 709 | 3° | 28.8 | −9 | 32.3 | 8.4 |

cards made out

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May 10, 1912 (Cont)

B 23809 Ghent.

| No. | Ext. | class | Remark |
|---|---|---|---|
| 163 | 2 | K0 | |
| 164 | 3 | F5- | |
| 165 | 9 | F5- | |
| 166 | 1 | G5- | |
| 167 | 3 | K0 | |
| 168 | 3 | F2 | |
| 169 | 8 | K0 | |
| Time 2:35 170 | 6 | G5- | |
| ~~171~~ | | | |
| ~~172~~ | | | |
| 171 | 2 | A5 | |
| 172 | 1 | K5- | Completely sup. on 171 |
| 173 | 3 | A5 | |
| 174 | 1 | G | Partly sup. on 134 |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 163 | -10° | 713 | 3 | 30.5 | -10 | 8.9 | 8.8 | ✓ | |
| 164 | -9° | 717 | 3 | 32.3 | -9 | 28.4 | 8.7 | ✓ | |
| 165 | -9° | 719 | 3 | 33.2 | -9 | 30.7 | 7.0 | ✓ | |
| 166 | -9° | 722 | 3 | 33.8 | -9 | 20.1 | 8.8 | ✓ | |
| 167 | -9° | 724 | 3 | 34.4 | -9 | 39.8 | 8.5 | ✓ | |
| 168 | -9° | 733 | 3 | 35.9 | -9 | 19.2 | 8.3 | ✓ | |
| 169 | -10° | 730 | 3 | 36.8 | -10 | 40 | 7.7 | ✓ | |
| 170 | -9° | 741 | 3 | 39.0 | -9 | 27.7 | 8.0 | ✓ | |

Identified by AMC. June 19, 1912

Checked By J.B.W. Dec. 13, 1912

cards made out by A.C.W.

Cards ~~made~~ checked out By S.R.B.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| - | 171 | -7° | 591 | 3 | 16.7 | -7 | 43 | 9.0 | 15 a.m. 38773 |
| - | 172 | -7 | 590 | 3 | 16.7 | -7 | 46 | 8.5 | 15 " " |
| - | 173 | -8 | 637 | 3 | 14.6 | -8 | 1 | 8.5 | 14 " " |
| ✓ | 174 | -8° | 695 | 3 | 32.6 | -8 | 22 | 9.4 | |

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Saturday May 10, 1912

Time: 23.42 B 12 | 91 shut disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 8 | Ly0 | E. |
| 2 | 8 | Ly5 | E. |
| 3 | 10 | Ly | E. |
| 4 | 2 | Ke0 | E. |
| 5 | 2 | Ly0 | |
| 6 | 1 | Je | E. |
| 7 | 4 | Ke0 | E. |
| 8 | 7 | Ke0 | |
| 9 | 2 | Ke2 | |
| 10 | 4 | Ly5 | |
| 11 | 2 | Ly5 | |
| 12 | 1 | Je | |
| 13 | 2 | Ly | |
| 14 | 2 | Ke0 | |
| 15 | 4 | Je | |
| 16 | 5 | Ke0 | |
| 17 | 6 | Je | |
| 18 | 2 | Ly5 | |
| 19 | 7 | Ly0 | |
| 20 | 10 | Ae2 | |
| 21 | 2 | Ly5 | |
| 22 | Je | Ly0 | |
| 23 | 2 | Ly | |
| 24 | 7 | Me | |
| 25 | 8 | Je | |
| 26 | 3 | Ly5 | |
| 27 | 10+ | Ly0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -9° | ~~597~~ 597 | 2 | 31.9 | -9 | 33.0 | 7.2 | ∧∨ |
| 2 | -10° | 522 | 2 | 32.1 | -10 | 37.3 | 6.8 | ∧∨ |
| 3 | -10° | 525 | 2 | 33.1 | -10 | 4.5 | 6.2 | ∧∨ |
| 4 | -9° | 500 | 2 | 32.9 | -9 | 39.7 | 8.3 | ∧∨ |
| 5 | ~~-8~~ -10° | ~~583~~ 530 | 2 | ~~34.8~~ 32.2 | ~~-8~~ -10 | ~~23.0~~ 17.5 | ~~8.8~~ 9.1 | ∧∨ |
| 6 | -8° | 506 | 2 | 33.9 | -8 | 30.0 | 8.7 | ∧∨ |
| 7 | -9° | 509 | 2 | 35.0 | -9 | 0.1 | 8.4 | ∧∨ |
| 8 | -8° | 515 | 2 | 36.8 | -8 | 31.7 | 6.8 | ∧∨ |
| 9 | -8° | 516 | 2 | 37.6 | -8 | 37.3 | 8.5 | ∧∨ |
| 10 | -8° | 522 | 2 | 39.4 | -8 | 38.2 | 8.0 | ∧∨ |
| 11 | -9° | 514 | 2 | 36.9 | -9 | 47.8 | 8.6 | ∧∨ |
| 12 | -9° | 523 | 2 | 38.2 | -9 | 56.9 | 8.8 | ∧∨ |
| 13 | -10° | 542 | 2 | 38.3 | -10 | 28.1 | 9.1 | ∧∨ |
| 14 | -10° | 546 | 2 | 39.5 | -10 | 25.2 | 9.0 | ∧∨ |
| 15 | -10° | 549 | 2 | 40.0 | -10 | 28.3 | 8.9 | ∧∨ |
| 16 | -9° | 529 | 2 | 40.4 | -9 | 36.2 | 8.0 | ∧∨ |
| 17 | -10° | 558 | 2 | 42.6 | -10 | ~~33.3~~ 5.1 | 8.0 | ∧∨ |
| 18 | -11° | 528 | 2 | 41.9 | -11 | 7.2 | 9.1 | ∧∨ |
| 19 | -11° | 529 | 2 | 42.3 | -11 | 9.1 | 8.0 | ∧∨ |
| 20 | -10° | 569 | 2 | 45.8 | -10 | 2.5 | 6.5 | ∧∨ |
| 21 | -9° | 543 | 2 | 46.2 | -9 | 31.8 | 8.7 | ∧∨ |
| 22 | -9° | 544 | 2 | 46.4 | -9 | 26.5 | 7.8 | ∧∨ |
| 23 | -9° | 545 | 2 | 46.5 | -9 | 48.3 | 9.0 | ∧∨ |
| 24 | -8° | 536 | 2 | 45.1 | -8 | 51.9 | 7.8 | ∧∨ |
| 25 | -8° | 543 | 2 | 46.1 | -8 | 19.9 | 7.0 | ∧∨ |
| 26 | -8° | 547 | 2 | 48.0 | -8 | 35.0 | 8.1 | ∧∨ |
| 27 | -9° | 553 | 2 | 49.4 | -9 | 28.6 | 3.7 | ∧∨ |

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May 10, 1912

B 1819 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 5 | Fo | |
| 29 | 9 | F5 | |
| 30 | 6 | Ao | |
| 31 | 5 | Fo | |
| 32 | 1 | F5 | Difficult. |
| 33 | 10 | Bq | |
| 34 | 4 | F5 | |
| 35 | 4 | F2 | |
| 36 | 5 | G5 | |
| 37 | 8 | Ko | E. |
| 38 | 10 | K | E. |
| 39 | 10+ | K | E. |
| 40 | 10+ | A2 | E. |
| 41 | 4 | A3 | |
| 42 | 7 | Ko | E. |
| 43 | 2 | G | |
| 44 | 4 | G | Focus poor |
| 45 | 1 | G5 | |
| 46 | 3 | G5 | |
| 47 | 3 | Fo | |
| 48 | 6 | F5 | |
| 49 | 6 | G0 | |
| 50 | 9 | G5 | |
| 51 | 3 | F8 | |
| 52 | 4 | F8 | |
| 53 | 6 | G5 | |
| 54 | 11 | G5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | −10° | 577 | 2 | 48.8 | −10 | 1.7 | 8.3 | ^ J |
| 29 | −11° | 546 | 2 | 47.1 | −11 | 1.8 | 6.8 | ^ J |
| 30 | −11° | 547 | 2 | 47.2 | −11 | 40.7 | 7.6 | ^ J |
| 31 | −10° | 580 | 2 | 49.9 | −10 | 57.7 | 8.2 | ^ J |
| 32 | −11° | 560 | 2 | 51.2 | −11 | 1.4 | 9.3 | ^ J |
| 33 | −10° | 585 | 2 | 51.8 | −10 | 21.4 | 6.5 | ^ J |
| 34 | −9° | 568 | 2 | 52.6 | −9 | 59.8 | 8.1 | ^ J |
| 35 | −9° | 558 | 2 | 51.4 | −9 | 12.6 | 8.4 | ^ J |
| 36 | −8° | 549 | 2 | 53.3 | −8 | 42.6 | 7.8 | ^ J |
| 37 | −7° | 533 | 2 | 52.5 | −7 | 45.5 | 6.7 | ^ J |
| 38 | −8° | 562 | 2 | 54.0 | −8 | 14.1 | 6.0 | ^ J |
| 39 | −8° | 568 | 2 | 55.6 | −8 | 14.9 | 6.0 | ^ J |
| 40 | −8° | 572 | 2 | 57.2 | −8 | 10.0 | 6.0 | ^ J |
| 41 | −9° | 583 | 2 | 57.1 | −9 | 1.9 | 8.1 | ^ J |
| 42 | −8° | 577 | 2 | 58.1 | −8 | 50.7 | 6.9 | ^ J |
| 43 | −9° | 585 | 2 | 58.2 | −9 | 30.9 | 8.5 | ^ J |
| 44 | −9° | 592 | 2 | 59.4 | −9 | 9.1 | 8.1 | ^ J |
| 45 | −9° | 564 | 2 | 52.1 | −9 | 42.4 | 8.8 | ^ J |
| 46 | −9° | 572 | 2 | 53.2 | −9 | 37.1 | 8.5 | ^ J |
| 47 | −9° | 571 | 2 | 53.1 | −9 | 48.6 | 8.9 | ^ J |
| 48 | −10° | 586 | 2 | 52.4 | −10 | 51.2 | 8.3 | ^ J |
| 49 | −10° | 591 | 2 | 53.9 | −10 | 36.6 | 8.2 | ^ J |
| 50 | −10° | 594 | 2 | 54.9 | −10 | 31.9 | 6.0 | ^ J |
| 51 | −11° | 564 | 2 | 51.9 | −11 | 32.1 | 8.8 | ^ J |
| 52 | −11° | 566 | 2 | 52.3 | −11 | 25.9 | 9.0 | ^ J |
| 53 | −11° | 568 | 2 | 52.5 | −11 | 15.4 | 8.1 | ^ J |
| 54 | −11° | 571 | 2 | 53.4 | −11 | 52.2 | 8.5 | ^ J |

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May 10, 1912

B 18191 short disp.

| No. | Int. | Class. | Remarks |
|---|---|---|---|
| 55 | 7 | ly5 | |
| 56 | 1 | ly | |
| 57 | 2 | ly0 | |
| 58 | 1 | ly | |
| 59 | 1 | ly | |
| 60 | 7 | F8 | |
| 61 | 4 | F5 | |
| 62 | 3 | K2 | |
| 63 | 8 | ly5 | |
| 64 | 4 | K2 | |
| 65 | K2 | K | |
| 66 | 5 | F5 | |
| 67 | 2 | ly | |
| 68 | 5 | ly0 | |
| 69 | 4 | ly0 | |
| 70 | 2 | ly | |
| 71 | 8 | F5 | |
| 72 | 3 | K5 | |
| 73 | 7 | F5 | |
| 74 | 9 | ly0 | |
| 75 | 3 | ly | C. |
| 76 | 2 | K0 | |
| 77 | 4 | F0 | |
| 78 | 1 | K | |
| 79 | 4 | F5 | |
| 80 | 3 | K0 | |
| 81 | 3 | ly0 | |

Lards checked by 2776



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | −12° | 576 | 2 | 53.4 | −12 | 2.2 | 7.5 | ∧ ∫ |
| 56 | −11° | 573 | 2 | 54.1 | −11 | 2.7 | 9.1 | ∧ ∫ |
| 57 | −10° | 592 | 2 | 54.3 | −10 | 54.4 | 9.0 | ∧ ∫ |
| 58 | −11° | 577 | 2 | 55.4 | −11 | 5.1 | 9.3 | ∧ ∫ |
| 59 | −11° | 578 | 2 | 55.6 | −11 | 28.8 | 9.2 | ∧ ∫ |
| 60 | −11° | 579 | 2 | 56.6 | −11 | 32.7 | 7.5 | ∧ ∫ |
| 61 | −11° | 583 | 2 | 57.2 | −11 | 1.3 | 8.8 | ∧ ∨ |
| 62 | −10° | 602 | 2 | 57.8 | −10 | 44.4 | 8.5 | ∧ ∫ |
| 63 | −10° | 610 | 2 | 59.6 | −10 | 48.5 | 7.0 | ∧ ∨ |
| 64 | −11° | 585 | 2 | 57.6 | −11 | 34.6 | 8.7 | ∧ ∫ |
| 65 | −12° | 592 | 2 | 58.2 | −12 | 3.0 | 8.8 | ∧ ∫ |
| 66 | −12° | 590 | 2 | 57.9 | −12 | 44.5 | 8.0 | ∧ ∨ |
| 67 | −13° | 593 | 3 | 0.3 | −13 | 3.5 | 9.0 | ∧ ∫ |
| 68 | −12° | 600 | 3 | 1.1 | −12 | 35.9 | 7.8 | ∧ ∫ |
| 69 | −12° | 603 | 3 | 2.3 | −12 | 17.1 | 8.4 | ∧ ∨ |
| 70 | −13° | 596 | 3 | 1.4 | −13 | 9.6 | 8.4 | ∧ ∫ |
| 71 | −14° | 601 | 2 | 59.2 | −14 | 0.2 | 7.6 | ∧ ∨ |
| 72 | −13° | 591 | 2 | 59.4 | −13 | 49.1 | 8.3 | ∧ ∫ |
| 73 | −13° | 592 | 2 | 59.8 | −13 | 52.6 | 7.8 | ∧ ∨ |
| 74 | −14° | 604 | 3 | 0.5 | −14 | 18.8 | 6.5 | ∧ ∫ |
| 75 | −11° | 508 | 2 | 35.7 | −11 | 1.4 | 8.7 | ∧ ∫ |
| 76 | −11° | 507 | 2 | 35.5 | −11 | 24.7 | 8.7 | ∧ ∨ |
| 77 | −11° | 520<br>459 | 2<br>2 | 38.6<br>18.8 | −11<br>−11 | 18.8<br>17.3 | 9.0<br>7.0 | ∫ |
| 78 | −11° | 522 | 2 | 38.6 | −11 | 43.4 | 8.6 | ∧ ∫ |
| 79 | −12° | 517 | 2 | 37.6 | −12 | 6.8 | 8.8 | ∧ ∫ |
| 80 | −12° | 515 | 2 | 36.7 | −12 | 30.7 | 8.4 | ∧ ∫ |
| 81 | −12° | 510 | 2 | 35.3 | −12 | 51.1 | 8.9 | ∧ ∨ |

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May 10, 1913

B 1819 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 4 | Qe | |
| 83 | 6 | K0 | |
| 84 | 7 | F0 | |
| 85 | 8 | Ma | |
| 86 | 4 | g0 | |
| 87 | 2 | g | |
| 88 | 10 | g0 | |
| 89 | 2 | g5 | |
| 90 | 2 | g0 | |
| 91 | 9 | F0 | |
| 92 | 5 | g5 | |
| 93 | 5 | g0 | |
| 94 | 4 | F8 | |
| 95 | 3 | F5 | |
| 96 | 4 | K0 | |
| 97 | 8 | g5 | |
| 98 | 5 | F0 | |
| 99 | 2 | g | |
| 100 | 3 | Ma | |
| 101 | 5 | g5 | |
| 102 | 7 | g5 | |
| 103 | 2 | F8 | |
| 104 | 2 | g5 | |
| 105 | 5 | g5 | |
| 106 | 3 | F8 | |
| 107 | 2 | K0 | |
| 108 | 2 | F8 | |

wide doubled by eye.



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 82 | −12° | 511 | 2 | 35.5 | − 12 | 55.9 | 9.0 | ∧ ∫ |
| 83 | −13° | 516 | 2 | 37.2 | − 13 | 6.3 | 7.3 | ∧ ∫ |
| 84 | −12° | 519 | 2 | 38.2 | − 12 | 46.6 | 8.3 | ∧ ∫ |
| 85 | −13° | 530 | 2 | 41.0 | − 13 | 4.0 | 6.3 | ∧ ∫ |
| 86 | −12° | 531 | 2 | 43.4 | − 12 | 7.6 | 8.6 | ∧ ∫ |
| 87 | −12° | 532 | 2 | 43.6 | − 12 | 8.3 | 9.0 | ∧ ∫ |
| 88 | −13° | 544 | 2 | 45.6 | − 13 | 21.6 | 5.8 | ∧ ∫ |
| 89 | −13° | 543 | 2 | 45.3 | −13 | 41.3 | 8.5 | ∧ ∫ |
| 90 | −14° | 555 | 2 | 46.6 | − 14 | 51.0 | 9.0 | ∧ ∫ |
| 91 | −14° | 557 | 2 | 48.0 | − 14 | 36.9 | 6.8 | ∧ ∫ |
| 92 | −14° | 564 | 2 | 49.0 | − 14 | 17.2 | 7.9 | ∧ ∫ |
| 93 | −13° | 558 | 2 | 49.9 | − 13 | 49.8 | 8.3 | ∧ ∫ |
| 94 | −12° | 555 | 2 | 48.7 | − 12 | 56.9 | 8.5 | ∧ ∫ |
| 95 | −12° | 554 | 2 | 48.6 | − 12 | ~~8.9~~ 17.6 | 8.9 | ∧ ∫ |
| 96 | −12° | 564 | 2 | 50.7 | − 12 | 19.9 | 8.5 | ∧ ∫ |
| 97 | −12° | 566 | 2 | 51.3 | − 12 | 35.5 | 6.6 | ∧ ∫ |
| 98 | −13° | 563 | 2 | 51.5 | − 13 | 23.2 | 8.0 | ∧ ∫ |
| 99 | −13° | 565 | 2 | 52.3 | − 13 | 9.2 | 9.0 | ∧ ∫ |
| 100 | −13° | 564 | 2 | 52.1 | − 13 | 55.7 | 8.3 | ∧ ∫ |
| 101 | −13° | 570 | 2 | 53.3 | − 13 | 38.3 | 8.0 | ∧ ∫ |
| 102 | − 14° | 576 | 2 | 53.1 | − 14 | 15.8 | 6.9 | ∧ ∫ |
| 103 | − 14° | 587 | 2 | 54.8 | − 14 | 10.1 | 9.1 | ∧ ∫ |
| 104 | − 14° | 586 | 2 | 54.7 | − 14 | 27.7 | 9.1 | ∧ ∫ |
| 105 | − 14° | 591 | 2 | 55.6 | − 14 | 6.1 | 7.8 | ∧ ∫ |
| 106 | −13° | 575 | 2 | 55.4 | − 13 | 12.2 | 8.0 | ∧ ∫ |
| 107 | −12° | 581 | 2 | 55.6 | − 12 | 59.6 | 8.5 | ∧ ∫ |
| 108 | −13° | 578 | 2 | 56.9 | − 13 | 43.3 | 8.9 | ∧ ∫ |

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B 1819 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 1 | ly5 | |
| 110 | 2 | K0 | |
| 111 | 2 | ly | |
| 112 | 2 | F8 | |
| 113 | 2 | ly | |
| 114 | 3 | A2 | |
| 115 | 3 | ly0 | |
| 116 | 3 | ly0 | |
| 117 | 4 | ly5 | |
| 118 | 2 | K0 | |
| 119 | 8 | A2 | |
| 120 | 3 | A | E. |
| 121 | 7 | A2 | E. |
| 122 | 3 | K5 | E. Focus poor. |
| 123 | 5 | A0 | |
| 124 | 8 | F | E. |
| 125 | 10+ | A | Burned out. |
| 126 | 2 | K | |
| 127 | 4 | ly0 | |
| 128 | 4 | ly5 | |
| 129 | 5 | ly5 | |
| 130 | 1 | Ma | Var? |
| 131 | 7 | ly5 | |
| 132 | 4 | K5 | |
| 133 | 7 | F | Poor focus |
| 134 | 3 | ly5 | |
| 135 | 4 | K0 | |

Carte Duchesne 0884.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 109 | −13° | 584 | 2 | 58.0 | −13 | 24.2 | 9.0 |
| 110 | −13° | 585 | 2 | 58.4 | −13 | 17.1 | 8.7 |
| 111 | −13° | 587 | 2 | 58.6 | −13 | 38.0 | 9.0 |
| 112 | −13° | 588 | 2 | 58.7 | −13 | 44.2 | 9.1 |
| 113 | −14° | 597 | 2 | 57.3 | −14 | 9.6 | 9.1 |
| 114 | −14° | 589 | 2 | 55.5 | −14 | 50.0 | 8.6 |
| 115 | −14° | 593 | 2 | 56.0 | −14 | 58.9 | 8.9 |
| 116 | −15° | 535 | 2 | 57.0 | −15 | 8.0 | 9.0 |
| 117 | −15° | 532 | 2 | 55.7 | −15 | 50.7 | 8.0 |
| 118 | −15° | 525 | 2 | 52.3 | −15 | 37.3 | 8.7 |
| 119 | −15° | 519 | 2 | 49.7 | −15 | 36.1 | 7.2 |
| 120 | −16° | 525 | 2 | 46.9 | −16 | 38.7 | 8.9 |
| 121 | −16° | 531 | 2 | 48.3 | −16 | 38.1 | 7.5 |
| 122 | −16° | 532 | 2 | 49.1 | −16 | 39.0 | 8.2 |
| 123 | −16° | 534 | 2 | 50.2 | −16 | 18.5 | 8.4 |
| 124 | −16° | 538 | 2 | 51.2 | −16 | 25.6 | 7.6 |
| 125 | −14° | 519 | 2 | 37.2 | −14 | 78.0 | 4.0 |
| 126 | −14° | 521 | 2 | 37.6 | −14 | 17.9 | 8.7 |
| 127 | −14° | 523 | 2 | 38.0 | −14 | 12.7 | 8.6 |
| 128 | −13° | 525 | 2 | 40.1 | −13 | 57.1 | 8.3 |
| 129 | −14° | 527 | 2 | 39.7 | −14 | 35.2 | 7.7 |
| 130 | −14° | 524 | 2 | 38.6 | −14 | 36.4 | 8.3 |
| 131 | −16° | 498 | 2 | 38.4 | −16 | 1.7 | 7.3 |
| 132 | −15° | 491 | 2 | 40.0 | −15 | 53.5 | 7.5 |
| 133 | −15° | 493 | 2 | 40.3 | −15 | 59.0 | 8.0 |
| 134 | −15° | 497 | 2 | 42.3 | −16 | 24.5 | 8.6 |
| 135 | −15° | 498 | 2 | 42.4 | −15 | 18.0 | 8.4 |

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May 10, 1912

B 1819 about disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 6 | Ko | |
| 137 | 2 | K | |
| 138 | | | |
| 139 | | | |
| 140 | | | |

Time: 23.14



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 136 | −14° | 541 | 2 | 43.1 | −14 | 27.2 | 7.5 | ∧ ∨ |
| 137 | −15° | 502 | 2 | 43.6 | −15 | 6.1 | 9.0 | ^ v |

Identified by A.M.C. June 17, 1912

Checked July 1 1912 LDW.

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Moved May 2 1912

Time: 22.33 ~~47~~

B 1819 2 what disp.

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 1 | 5 | Ma? | Tor near edge. Confirms. |
| 2 | 9 | F5 | E. |
| 3 | 2 | No | E. |
| 4 | 8 | fg5 | |
| 5 | 4 | K | E. |
| 6 | 5 | fg5 | |
| 7 | 4 | F8 | |
| 8 | 4 | fg0 | |
| 9 | 2 | F5 | |
| 10 | 10 | A0 | Burned out. |
| 11 | 2 | fg | |
| 12 | 10+ | K | Burned out. |
| 13 | 6 | No | |
| 14 | 6 | A | |
| 15 | 4 | K | E. |
| 16 | 5 | A | E. |
| 17 | 4 | F | E. |
| 18 | 3 | A | |
| 19 | 5 | F2 | |
| 20 | 7 | A | E. |
| 21 | 5 | Mb | E. |
| 22 | 3 | fg5 | |
| 23 | 6 | fg0 | |
| 24 | 5 | fg5 | |
| 25 | 2 | A | |
| 26 | 2 | A | |
| 27 | 2 | K0 | |

corrected Dec 1913



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | −8° | 692 | 3 | 31.8 | −8 | 58.7 | 7.2 | ∧ / |
| 2 | −9° | 719 | 3 | 33.2 | −9 | 30.7 | 7.0 | ∧ / |
| 3 | −9° | 724 | 3 | 34.4 | −9 | 39.8 | 8.5 | ∧ √ |
| 4 | −10° | 717 | 3 | 32.5 | −10 | 54.6 | 6.1 | ∧ / |
| 5 | −11° | 703 | 3 | 31.4 | −11 | 40.7 | 7.8 | ∧ √ |
| 6 | −11° | 706 | 3 | 33.0 | −11 | 25.0 | 7.0 | ∧ √ |
| 7 | −11° | 710 | 3 | 33.7 | −11 | 45.0 | 8.3 | ∧ J |
| 8 | −11° | 716 | 3 | 34.9 | −11 | 9.2 | 8.5 | ∧ √ |
| 9 | −10° | 727 | 3 | 35.9 | −10 | 58.5 | 8.8 | ∧ J |
| 10 | −10° | 729 | 3 | 36.6 | −10 | 56.7 | 6.0 | ∧ / |
| 11 | −10° | 724 | 3 | 35.2 | −10 | 17.9 | 8.8 | ∧ √ |
| 12 | −10° | 728 | 3 | 36.3 | −10 | 15.0 | 3.3 | ∧ √ |
| 13 | −10° | 730 | 3 | 36.8 | −10 | 4.0 | 7.7 | ∧ √ |
| 14 | −9° | 738 | 3 | 37.5 | −9 | 3.1 | 8.3 | ∧ J |
| 15 | −8° | 710 | 3 | 36.9 | −8 | 20.4 | 7.5 | ∧ √ |
| 16 | −8° | 718 | 3 | 38.4 | −8 | 23.8 | 7.9 | ∧ √ |
| 17 | −8° | 723 | 3 | 39.4 | −8 | 37.4 | 8.3 | ∧ √ |
| 18 | −8° | 725 | 3 | 40.0 | −8 | 49.1 | 8.4 | ∧ √ |
| 19 | −8° | 728 | 3 | 41.1 | −8 | 59.4 | 8.3 | ∧ √ |
| 20 | −7° | 681 | 3 | 40.7 | −7 | 28.5 | 8.0 | ∧ √ |
| 21 | −7° | 685 | 3 | 41.7 | −7 | 27.5 | 7.0 | ∧ √ |
| 22 | −8° | 730 | 3 | 42.5 | −8 | 40.5 | 8.8 | ∧ √ |
| 23 | −8° | 733 | 3 | 42.8 | −8 | 30.5 | 8.5 | ∧ √ |
| 24 | −9° | 741 | 3 | 39.0 | −9 | 27.7 | 8.0 | ∧ / |
| 25 | −9° | 748 | 3 | 40.6 | −9 | 14.2 | 8.8 | ∧ / |
| 26 | −9° | 749 | 3 | 40.8 | −9 | 3.9 | 8.8 | ∧ √ |
| 27 | −9° | 743 | 3 | 39.6 | −9 | 54.2 | 8.2 | ∧ √ |

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B 1892 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 2 | ly | |
| 29 | 4 | Ly0 | |
| 30 | 7 | K0 | |
| 31 | 3 | K2 | |
| 32 | 2 | F2 | |
| 33 | 6 | Ly0 | |
| 34 | 1 | K | |
| 35 | 5 | F0 | |
| 36 | 10 | K5 | |
| 37 | 4 | Ly0 | |
| 38 | 3 | F8 | |
| 39 | 4 | F0 | |
| 40 | 7 | F8 | |
| 41 | 3 | F0 | |
| 42 | 4 | Ma | |
| 43 | 4 | F8 | |
| 44 | 5 | F5 | |
| 45 | 3 | Ly5 | |
| 46 | 6 | F2 | |
| 47 | 1 | F | |
| 48 | 2 | ly | |
| 49 | 6 | K0 | |
| 50 | 7 | A0 | |
| 51 | 1 | ly | |
| 52 | 9 | F0 | |
| 53 | 5 | F2 | |
| 54 | 4 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -9° | 745 | 3 | 39.9 | -9 | 50.2 | 8.8 | ∧∨ |
| 29 | -10° | 743 | 3 | 39.6 | -10 | 10.5 | 8.5 | ∧/ |
| 30 | -10° | 741 | 3 | 39.3 | -10 | 19.9 | 7.0 | ∧∨ |
| 31 | -10° | 736 | 3 | 37.8 | -10 | 42.2 | 8.0 | ∧∨ |
| 32 | -10° | 739 | 3 | 38.7 | -10 | 45.0 | 8.9 | ∧∨ |
| 33 | -11° | 726 | 3 | 37.8 | -11 | 14.0 | 8.1 | ∧∨ |
| 34 | -12° | 698 | 3 | 36.5 | -12 | 10.5 | 8.5 | ∧∨ |
| 35 | -12° | 702 | 3 | 37.6 | -12 | 31.0 | 8.0 | ∧∨ |
| 36 | -12° | 707 | 3 | 39.3 | -12 | 33.4 | 4.3 | ∧∨ |
| 37 | -11° | 736 | 3 | 40.3 | -11 | 56.6 | 8.2 | ∧∨ |
| 38 | -12° | 716 | 3 | 41.6 | -12 | 13.1 | 8.5 | ∧∨ |
| 39 | -12° | 725 | 3 | 43.4 | -12 | 10.8 | 8.9 | ∧∨ |
| 40 | -12° | 729 | 3 | 43.8 | -12 | 26.0 | 8.0 | ∧∨ |
| 41 | -12° | 731 | 3 | 44.1 | -12 | 18.3 | 8.9 | ∧∨ |
| 42 | -12° | 737 | 3 | 45.1 | -12 | 24.5 | 7.5 | ∧∨ |
| 43 | -11° | 745 | 3 | 43.2 | -11 | 34.9 | 8.5 | ∧∨ |
| 44 | -10° | 757 | 3 | 43.5 | -10 | 45.7 | 8.2 | ∧∨ |
| 45 | -10° | 759 | 3 | 44.1 | -10 | 10.4 | 8.2 | ∧∨ |
| 46 | -10° | 763 | 3 | 45.0 | -10 | 57.9 | 8.3 | ∧∨ |
| 47 | -11° | 751 | 3 | 45.3 | -11 | 19.2 | 9.1 | ∧∨ |
| 48 | -11° | 753 | 3 | 45.7 | -11 | 18.6 | 9.1 | ∧∨ |
| 49 | -10° | 771 | 3 | 46.5 | -10 | 58.7 | 7.8 | ∧∨ |
| 50 | -10° | 774 | 3 | 47.3 | -10 | 51.5 | 8.5 | ∧∨ |
| 51 | -10° | 776 | 3 | 47.4 | -10 | 23.9 | 9.3 | ∧∪ |
| 52 | -9° | 773 | 3 | 47.6 | -9 | 57.0 | 7.0 | ∧∨ |
| 53 | -8° | 740 | 3 | 45.6 | -8 | 55.1 | 8.2 | ∧∨ |
| 54 | -8° | 744 | 3 | 46.4 | -8 | 26.7 | 8.5 | ∧/ |

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B 1819 2 short slits.

| No. | Init. | Class | Remark |
|---|---|---|---|
| 55 | 4 | $h_5$ | |
| 56 | 5 | $Jl_0$ | |
| 57 | 3 | K | E. |
| 58 | 5 | $A_5$ | |
| 59 | 2 | F | |
| 60 | 2 | F | |
| 61 | 2 | $F_5$ | |
| 62 | X5 | $F_2$ | |
| 63 | 10 | $F_0$ | |
| 64 | 4 | $K_0$ | |
| 65 | 1 | $h$ | |
| 66 | 3 | $h_5$ | |
| 67 | 3 | $A_2$ | |
| 68 | 2 | $h$ | |
| 69 | 5 | $h_0$ | |
| 70 | 3 | $A_3$ | |
| 71 | 4 | $F_0$ | |
| 72 | 3 | $h_5$ | |
| 73 | 1 | K | |
| 74 | 1 | $F_5$ | |
| 75 | 2 | $F_5$ | |
| 76 | 4 | $F_2$ | |
| 77 | 5 | $F_3$ | |
| 78 | 3 | $K_2$ | |
| 79 | 6 | $h_0$ | |
| 80 | 5 | Nb | |
| 81 | 8 | $h_0$ | |

Could not find by 12 hr 45 m.



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | −8° | 751 | 3 | 47.8 | −8 | 20.3 | 8.2 | ∧J |
| 56 | −8° | 757 | 3 | 49.1 | −8 | 3.9 | 7.6 | ∧J |
| 57 | −8° | 762 | 3 | 50.5 | −8 | 23.1 | 8.8 | ∧J |
| 58 | −8° | 760 | 3 | 50.1 | −8 | 53.2 | 8.5 | ∧J |
| 59 | −9° | 775 | 3 | 48.2 | −9 | 21.1 | 8.7 | ∧J |
| 60 | −10° | 778 | 3 | 48.2 | −10 | 86.4 | 9.1 | ∧J |
| 61 | −10° | 785 | 3 | 49.1 | −10 | 24.4 | 9.0 | ∧J |
| 62 | −10° | 787 | 3 | 49.2 | −10 | 15.4 | 8.5 | ∧J |
| 63 | −10° | 793 | 3 | 49.7 | −10 | 10.5 | 6.5 | ∧J |
| 64 | −10° | 796 | 3 | 50.7 | −10 | 6.8 | 8.0 | ∧J |
| 65 | −9° | 785 | 3 | 51.5 | −9 | 43.0 | 9.0 | ∧J |
| 66 | −9° | 783 | 3 | 51.4 | −9 | 26.1 | 8.1 | ∧J |
| 67 | −9° | 782 | 3 | 51.2 | −9 | 19.4 | 8.7 | ∧J |
| 68 | −10° | 807 | 3 | 52.5 | −10 | 23.8 | 9.0 | ∧J |
| 69 | −10° | 808 | 3 | 52.7 | −10 | 44.1 | 8.2 | ∧J |
| 70 | −11° | 777 | 3 | 53.4 | −11 | 4.9 | 8.6 | ∧J |
| 71 | −10° | 813 | 3 | 54.0 | −10 | 51.5 | 8.7 | ∧J −10° 814 superpouse |
| 72 | −9° | 794 | 3 | 54.1 | −9 | 59.8 | 8.4 | ∧J |
| 73 | −10° | 818 | 3 | 55.1 | −10 | 53.5 | 9.0 | ∧J |
| 74 | −10° | 819 | 3 | 55.3 | −10 | 30.4 | 9.0 | ∧J |
| 75 | −11° | 784 | 3 | 55.6 | −11 | 18.7 | 9.1 | ∧J |
| 76 | −11° | 787 | 3 | 55.9 | −11 | 20.5 | 9.0 | ∧J |
| 77 | −11° | 788 | 3 | 56.1 | −11 | 19.6 | 9.0 | ∧J |
| 78 | −10° | 823 | 3 | 56.5 | −10 | 57.8 | 8.2 | ∧J |
| 79 | −10° | 831 | 3 | 57.5 | −10 | 38.1 | 8.0 | ∧J |
| 80 | −10° | 834 | 3 | 59.0 | −10 | 41.9 | 6.8 | ∧J |
| 81 | −10° | 839 | 84 | 0.1 | −10 | 23.2 | 6.7 | ∧J |

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B 1912 short diafs.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 6 | K0 | |
| 83 | 3 | K5 | |
| 84 | 10 | A | Burned out. Maybe B8. |
| 85 | 4 | F8 | |
| 86 | 1 | dy5 | |
| 87 | 5 | A0 | |
| 88 | 4 | F5 | |
| 89 | 7 | A0 | |
| 90 | 3 | A5 | |
| 91 | 1 | K | |
| 92 | 3 | F2 | |
| 93 | 1 | K5 | |
| 94 | 10 | dy5 | |
| 95 | 3 | F8 | |
| 96 | 4 | dy5 | |
| 97 | 5 | A5 | |
| 98 | 1 | K0 | |
| 99 | 1 | dy5 | |
| 100 | 1 | F | Difficult. |
| 101 | 6 | K0 | |
| 102 | 4 | K2 | |
| 103 | 2 | K2 | |
| 104 | 2 | K0 | |
| 105 | 4 | dy5 | |
| 106 | 2 | F8 | - |
| 107 | 2 | F8 | |
| 108 | 4 | K0 | |

Could checked by 8.4.4

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 82 | −10° | 841 | 4 | 0.3 | −10 | 9.1 | 7.2 | ^ / |
| 83 | −9° | 807 | 3 | 58.1 | −9 | 39.6 | 8.0 | ^ J |
| 84 | −9° | 811 | 3 | 59.0 | −9 | 147 | 6.3 | ^ / |
| 85 | −11° | 785 | 3 | 55.7 | −11 | 49.2 | 8.5 | ^ V |
| 86 | −12° | 786 | 3 | 56.3 | −12 | 13.5 | 9.1 | ^ V |
| 87 | −12° | 784 | 3 | 57.2 | −12 | 9.0 | 8.3 | ^ / |
| 88 | −12° | 788 | 3 | 57.9 | −12 | 12.3 | 8.5 | ^ J |
| 89 | −12° | 789 | 3 | 58.1 | −12 | 11.8 | 8.0 | ^ / |
| 90 | −12° | 793 | 3 | 58.9 | −12 | 1.1 | 8.4 | ^ J |
| 91 | −12° | 796 | 3 | 59.1 | −12 | 5.4 | 9.0 | ^ / |
| 92 | −12° | 798 | 3 | 59.5 | −12 | 18.2 | 8.7 | ^ J |
| 93 | −12° | 786 | 3 | 57.5 | −12 | 54.8 | 8.9 | ^ J |
| 94 | −13° | 806 | 3 | 57.6 | −13 | 11.5 | 5.9 | ^ J |
| 95 | −13° | 725 | 3 | 37.4 | −13 | 51.9 | 8.5 | ^ J |
| 96 | −13° | 729 | 3 | 38.0 | −13 | 55.8 | 8.0 | ^ J |
| 97 | −13° | 733 | 3 | 38.9 | −13 | ~~47.2~~ 25.3 | 8.5 | ^ J |
| 98 | −13° | 732 | 3 | 38.9 | −13 | ~~47.2~~ | ~~8.5~~ 8.0 | ^ J |
| 99 | −12° | 708 | 3 | 39.8 | −12 | 53.0 | 9.0 | ^ / |
| 100 | −12° | 711 | 3 | 40.5 | −12 | 53.5 | 9.1 | ^ V |
| 101 | −13° | 743 | 3 | 41.6 | −13 | 45.3 | 7.3 | ^ V |
| 102 | −13° | 747 | 3 | 42.2 | −13 | 35.5 | 8.5 | ^ / |
| 103 | −13° | 745 | 3 | 41.8 | −13 | 58.9 | 8.9 | ^ J |
| 104 | −14° | 752 | 3 | 41.7 | −14 | 6.3 | 9.1 | ^ / |
| 105 | −14° | 757 | 3 | 43.0 | −14 | 19.7 | 8.8 | ^ / |
| 106 | −12° | 727 | 3 | 43.7 | −12 | 47.0 | 8.8 | ^ / |
| 107 | −13° | 757 | 3 | 44.9 | −13 | 11.5 | 9.0 | ^ J |
| 108 | −13° | 765 | 3 | 47.0 | −13 | 10.0 | 7.8 | ^ / |

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May 12, 1912

B 1892 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 6 | $Ly5$ | |
| 110 | 6 | $A_0$ | |
| 111 | 5 | $A_2$ | |
| 112 | 10+ | $A_3$ | |
| 113 | 2 | $Ly$ | |
| 114 | 5 | $A_2$ | |
| 115 | 4 | $Ly5$ | |
| 116 | 9 | $F5$ | |
| 117 | 2 | $Ly$ | |
| 118 | 2 | $K$ | |
| 119 | 1 | $K$ | |
| 120 | 4 | $F_0$ | |
| 121 | 5 | $F5$ | |
| 122 | 2 | $F5$ | |
| 123 | 6 | $F_0$ | |
| 124 | 5 | $F5$ | |
| 125 | 9 | $Ly5$ | |
| 126 | 5 | $K_0$ | |
| 127 | 4 | $F_2$ | |
| 128 | 3 | $K_0$ | |
| 129 | 3 | $Ly5$ | |
| 130 | 2 | $F_2$ | |
| 131 | 2 | $F_2$ | |
| 132 | 2 | $A$ | |
| 133 | 8 | $A_2$ | |
| 134 | 2 | $F_0$ | |
| 135 | 4 | $B_9$ | |

could also be $Ly5$



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 109 | −12° | 744 | 3 | 47.2 | −12 | 53.1 | 7.5 | ∧∨ |
| 110 | −13° | 770 | 3 | 47.7 | −13 | 8.9 | 8.0 | ∧∨ |
| 111 | −12° | 746 | 3 | 48.0 | −12 | 14.5 | 8.5 | ∧∨ |
| 112 | −12° | 752 | 3 | 46.4 | −12 | 31.6 | 6.1 | ∧∨ |
| 113 | −11° | 759 | 3 | 47.9 | −11 | 7.5 | 8.9 | ∧∨ |
| 114 | −10° | 783 | 3 | 48.7 | −10 | 58.1 | 8.3 | ∧∨ |
| 115 | −11° | 762 | 3 | 49.3 | −11 | 5.2 | 8.3 | ∧∨ |
| 116 | −11° | 764 | 3 | 49.6 | −11 | 16.6 | 7.2 | ∧∨ |
| 117 | −10° | 789 | 3 | 49.6 | −10 | 40.4 | 9.3 | −10° ∨ 790 Superposed. |
| 118 | −10° | ~~800~~ 799 | 3 | 51.1 | −10 | ~~35.4~~ 39.0 | ~~7.4~~ 9.2 | ∨ |
| 119 | −11° | 768 | 3 | 50.7 | −11 | 52.7 | 8.8 | ∧∨ |
| 120 | −12° | 756 | 3 | 50.9 | −12 | 19.4 | 8.9 | ∧∨ |
| 121 | −11° | 770 | 3 | 52.1 | −11 | 51.3 | 8.0 | ∧∨ |
| 122 | −12° | 762 | 3 | 51.9 | −12 | 0.0 | 9.0 | ∧∨ |
| 123 | −12° | 764 | 3 | 52.3 | −12 | 47.4 | 8.5 | ∧∨ |
| 124 | −13° | 784 | 3 | 52.1 | −13 | 5.2 | 8.5 | ∧∨ |
| 125 | −12° | 766 | 3 | 52.7 | −12 | 59.4 | 5.5 | ∧∨ |
| 126 | −12° | 768 | 3 | 53.3 | −12 | 49.7 | 8.2 | ∧∨ |
| 127 | −13° | 790 | 3 | 53.9 | −13 | 16.1 | 8.4 | ∧∨ |
| 128 | −14° | 765 | 3 | 45.5 | −14 | 18.0 | 8.0 | ∧∨ |
| 129 | −14° | 767 | 3 | 46.3 | −14 | 6.2 | 8.3 | ∧∨ |
| 130 | −14° | 766 | 3 | 46.2 | −14 | 33.0 | 8.8 | ∧∨ |
| 131 | −14° | 769 | 3 | 46.9 | −14 | 21.5 | 9.0 | ∧∨ |
| 132 | −14° | 770 | 3 | 47.0 | −14 | 26.7 | 9.3 | ∧∨ |
| 133 | −14° | 772 | 3 | 47.2 | −14 | 26.0 | 8.0 | ∧∨ |
| 134 | −14° | 775 | 3 | 47.8 | −14 | 15.0 | 9.2 | ∧∨ |
| 135 | −14° | 781 | 3 | 49.4 | −14 | 11.4 | 8.5 | ∧∨ |

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B 18 192 slant disp.

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 2 | K0 | |
| 137 | 8 | K5 | |
| 138 | 3 | F0 | |
| 139 | 4 | F5 | |
| 140 | 2 | K0 | |
| 141 | 1 | F | |
| 142 | 10+ | K | Burned out |
| 143 | 2 | F0 | |
| 144 | 2 | A5 | Difficult. |
| 145 | 2 | K2 | |
| 146 | 7 | A3 | |
| 147 | 1 | K | |
| 148 | 5 | A5 | |
| 149 | 4 | K2 | |
| 150 | 5 | F5 | Poor focus. |
| 151 | 3 | Md? | " " |
| 152 | 4 | K0 | |
| 153 | 3 | K0 | |
| 154 | 5 | F8 | |
| 155 | 7 | K2 | |
| 156 | 5 | Ma | |
| 157 | 5 | F5 | |

Time: 2.3.03

Cont. in Bk. 131, P. 80

cards checked by A.G.W.



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 136 | −14° | 782 | 3 | 49.5 | −14 | 21.3 | 9.0 | ∧∨ |
| 137 | −14° | 783 | 3 | 49.7 | −14 | 1.2 | 6.8 | ∧∨ |
| 138 | −13° | 774 | 3 | 50.0 | −13 | 45.3 | 8.8 | ∧∨ |
| 139 | −14° | 786 | 3 | 50.4 | −14 | 3.1 | 8.7 | ∧ 14 0787 3 5°.W 14 0.7 9.3 superposed |
| 140 | −13° | 778 | 3 | 50.8 | −13 | 48.0 | 8.3 | ∧∨ |
| 141 | −13° | 780 | 3 | 51.2 | −13 | 46.9 | 9.0 | ∧∨ |
| 142 | −13° | 781 | 3 | 51.3 | −13 | 55.6 | 3 | ∧∨ |
| 143 | −13° | 788 | 3 | 53.0 | −13 | 57.4 | 9.0 | ∧∨ |
| 144 | −14° | 803 | 3 | 54.9 | −14 | 13.7 | 9.1 | ∧∨ |
| 145 | −14° | 810 | 3 | 57.5 | −14 | 14.8 | 8.9 | ∧∨ |
| 146 | −14° | 812 | 3 | 57.6 | −14 | 40.0 | 8.0 | ∧∨ |
| 147 | −14° | 813 | 3 | 58.0 | −14 | 39.1 | 9.0 | ∧∨ |
| 148 | −14° | 818 | 3 | 59.2 | −14 | 24.8 | 8.8 | ∧∨ |
| 149 | −15° | 717 | 3 | 59.3 | −15 | 7.6 | 8.0 | ∧∨ |
| 150 | −15° | 715 | 3 | 59.1 | −15 | 21.7 | 8.5 | ∧∨ |
| 151 | −16° | 771 | 3 | 57.7 | −16 | 7.6 | 8.5 | ∧∨ |
| 152 | −14° | 749 | 3 | 40.2 | −14 | 55.9 | 7.3 | ∧∨ |
| 153 | −15° | 659 | 3 | 40.6 | −15 | 13.2 | 8.5 | ∧∨ |
| 154 | −15° | 677 | 3 | 44.3 | −15 | 8.8 | 8.0 | ∧∨ |
| 155 | −15° | 683 | 3 | 46.8 | −15 | 24.3 | 6.8 | ∧∨ |
| 156 | −15° | 687 | 3 | 48.3 | −15 | 20.2 | 7.0 | ∧∨ |
| 157 | −15° | 696 | 3 | 52.7 | −15 | 32.9 | 8.0 | ∧∨ |

Identified by A.M.C. June 18, 1912

Checked July 3 1912 E.D.W.

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Time: 0.39

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 6 | Iyo | |
| 2 | 2 | Ko | |
| 3 | 2 | K2 | |
| 4 | 3 | Iyo | |
| 5 | 2 | Iy | |
| 6 | 5 | F5 | |
| 7 | 7 | A5 | |
| 8 | 4 | Ko | |
| 9 | 8 | A2 | |
| 10 | 7 | F5 | |
| 11 | 2 | Iy5 | |
| 12 | 6 | F5 | |
| 13 | 8 | Ao | |
| 14 | 2 | K5 | |
| 15 | 3 | Iyo | |
| 16 | 6 | Iy5 | |
| 17 | 6 | Fo | |
| 18 | 4 | Iy5 | |
| 19 | 2 | Ko | |
| 20 | 3 | F8 | |
| 21 | 3 | Bq | |
| 22 | 1 | K5 | |
| 23 | 10 | F5 | |
| 24 | 5 | Fo | |
| 25 | 6 | Go | |
| 26 | 2 | Iy5 | |
| 27 | 4 | F8 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -19° | 885 | 4 | 14.4 | -19 | 41.0 | 7.3 | ^ J |
| 2 | -19° | 887 | 4 | 14.6 | -19 | 35.7 | 8.4 | ^ J |
| 3 | -19° | 886 | 4 | 14.6 | -19 | 59.1 | 8.5 | ^ J |
| 4 | -20° | 833 | 4 | 14.6 | -20 | 9.9 | 8.7 | ^ J |
| 5 | -19° | 888 | 4 | 14.9 | -19 | 53.5 | 8.8 | ^ J |
| 6 | -19° | 898 | 4 | 15.8 | -19 | 46.2 | 8.2 | ^ J |
| 7 | -19° | 897 | 4 | 15.8 | -19 | 58.0 | 7.7 | ^ J |
| 8 | -20° | 884 | 4 | 14.9 | -20 | 31.6 | 8.3 | ^ J |
| 9 | -20° | 837 | 4 | 16.4 | -20 | 34.9 | 7.8 | ^ J |
| 10 | -20° | 839 | 4 | 17.3 | -20 | 36.0 | 7.8 | ^ J |
| 11 | -20° | 840 | 4 | 17.4 | -20 | 23.0 | 8.8 | ^ J |
| 12 | -20° | 842 | 4 | 17.8 | -20 | 26.6 | 8.3 | ^ J |
| 13 | -19° | 907 | 4 | 17.3 | -19 | 48.8 | 8.0 | ^ J |
| 14 | -20° | 841 | 4 | 17.7 | -20 | 55.7 | 8.3 | ^ J |
| 15 | -20° | 843 | 4 | 18.4 | -20 | 57.9 | 7.8 | ^ J |
| 16 | -21° | 859 | 4 | 18.8 | -21 | 32.9 | 7.7 | ^ J |
| 17 | -21° | 864 | 4 | 19.2 | -21 | 17.6 | 8.5 | ^ J |
| 18 | -21° | 869 | 4 | 20.1 | -21 | 17.5 | 8.3 | ^ J |
| 19 | -21° | 868 | 4 | 20.1 | -21 | 50.5 | 8.8 | ^ J |
| 20 | -22° | 824 | 4 | 20.0 | -22 | 9.3 | 9.0 | ^ J |
| 21 | -21° | 871 | 4 | 20.3 | -21 | 59.9 | 9.2 | ^ J |
| 22 | -21° | 872 | 4 | 20.5 | -21 | 45.0 | 9.1 | ^ J |
| 23 | -21° | 878 | 4 | 21.7 | -21 | 49.5 | 6.7 | ^ J |
| 24 | -20° | 851 | 4 | 21.1 | -20 | 41.9 | 8.3 | ^ J |
| 25 | -19° | 929 | 4 | 21.3 | -19 | 40.9 | 8.0 | ^ J |
| 26 | -19° | 917 | 4 | 19.9 | -19 | 59.5 | 8.9 | ^ J |
| 27 | -18° | 832 | 4 | 19.0 | -18 | 52.1 | 8.7 | ^ J |

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| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 5 | K0 | |
| 29 | 3 | K2 | |
| 30 | 10 | F8 | |
| 31 | 4 | K0 | |
| 32 | 5 | K5 | |
| 33 | 4 | K0 | |
| 34 | 10 | K0 | |
| 35 | 2 | K0 | |
| 36 | 2 | G5 | |
| 37 | 5 | F8 | |
| 38 | 8 | A3 | |
| 39 | 3 | F8 | |
| 40 | 4 | F8 | |
| 41 | 7 | A0 | |
| 42 | 2 | A | |
| 43 | 6 | K5 | |
| 44 | 3 | G0 | |
| 45 | 2 | K2 | |
| 46 | 1 | K | |
| 47 | 2 | K0 | |
| 48 | 2 | G0 | |
| 49 | 2 | G5 | |
| 50 | 2 | G0 | |
| 51 | 1 | K | |
| 52 | 6 | G0 | |
| 53 | 5 | G5 | |
| 54 | 6 | G5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | −18° | 835 | 4 | 19.5 | −18 | 11.9 | 7.7 | ^ v |
| 29 | −18° | 839 | 4 | 20.4 | −18 | 42.5 | 8.2 | ^ J |
| 30 | −18° | 840 | 4 | 20.5 | −18 | 58.6 | 7.0 | ^ J |
| 31 | −18° | 845 | 4 | 21.3 | −18 | 25.5 | 8.4 | ^ J |
| 32 | −18° | 848 | 4 | 21.5 | −18 | 9.6 | 7.3 | ^ J |
| 33 | −18° | 849 | 4 | 22.8 | −18 | 47.5 | 8.2 | ^ J |
| 34 | −19° | 931 | 4 | 22.3 | −19 | 46.4 | 6.0 | ^ J |
| 35 | −20° | 859 | 4 | 23.0 | −20 | 47.4 | 8.5 | ^ J |
| 36 | −21° | 888 | 4 | 23.3 | −21 | 13.5 | 9.0 | ^ J |
| 37 | −21° | 886 | 4 | 23.1 | −21 | 45.1 | 8.4 | ^ J |
| 38 | −21° | 895 | 4 | 24.5 | −21 | 41.5 | 7.6 | ^ J |
| 39 | −21° | 892 | 4 | 23.9 | −21 | 9.9 | 8.8 | ^ J |
| 40 | −21° | 894 | 4 | 24.3 | −21 | 13.4 | 8.4 | ^ J |
| 41 | −21° | 896 | 4 | 24.6 | −21 | 8.7 | 7.8 | ^ J |
| 42 | −20° | 867 | 4 | 25.0 | −20 | 59.8 | 9.2 | ^ v |
| 43 | −21° | 904 | 4 | 25.7 | −21 | 0.6 | 6.5 | ^ v |
| 44 | −21° | 900 | 4 | 25.4 | −21 | 19.2 | 8.5 | ^ J |
| 45 | −21° | 902 | 4 | 25.6 | −21 | 32.4 | 8.2 | ^ v |
| 46 | −21° | 903 | 4 | 25.7 | −21 | 43.4 | 8.9 | ^ v |
| 47 | −21° | 907 | 4 | 26.8 | −21 | 27.7 | 8.8 | ^ J |
| 48 | −21° | 910 | 4 | 27.0 | −21 | 26.4 | 9.0 | ^ J |
| 49 | −21° | 908 | 4 | 27.0 | −21 | 11.5 | 8.8 | ^ J |
| 50 | −21° | 911 | 4 | 27.1 | −21 | 41.0 | 8.6 | ^ J |
| 51 | −21° | 915 | 4 | 28.0 | −21 | 57.7 | 8.8 | ^ J |
| 52 | −21° | 919 | 4 | 29.5 | −21 | 38.1 | 7.5 | ^ J |
| 53 | −21° | 921 | 4 | 30.0 | −21 | 37.0 | 8.0 | ^ v |
| 54 | −21° | 916 | 4 | 28.8 | −21 | 2.7 | 7.5 | ^ v |

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B 23810 short disp.

| No. | Dist. | Class | Remark |
|---|---|---|---|
| 55 | 3 | K0 | |
| 56 | 3 | A3 | |
| 57 | 9 | K0 | |
| 58 | 3 | A5 | |
| 59 | 4 | F2 | |
| 60 | 3 | G5 | |
| 61 | 3 | F5 | |
| 62 | 2 | F4 | Difficult. |
| 63 | 3 | F5 | |
| 64 | 6 | F5 | |
| 65 | 4 | F0 | |
| 66 | 2 | | Two stars superposed. Cont. |
| 67 | 9 4 | K0 | |
| 68 | 7 | G0 | |
| 69 | 2 | K0 | |
| 70 | 2 | G0 | |
| 71 | 3 | F5 | |
| 72 | 7 | F0 | |
| 73 | 8 | A | E. |
| 74 | 7 | K | E. |
| 75 | 7 | K0 | |
| 76 | 2 | F8 | |
| 77 | 9 | A5 | |
| 78 | 2 | K0 | |
| 79 | 3 | F | Four poor. |
| 80 | 3 | K0 | |
| 81 | 3 | A0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | −21° | 918 | 4 | 29.1 | −21 | 3.8 | 8.5 | ∧ J |
| 56 | −20° | 879 | 4 | 28.2 | −20 | 34.7 | 9.1 | ∧ J magn. 9.4 ∆ 20° 877 Superposed |
| 57 | −20° | 880 | 4 | 28.7 | −20 | 13.4 | 5.5 | ∧ J |
| 58 | −20° | 881 | 4 | 29.0 | −20 | 21.7 | 8.6 | ∧ J |
| 59 | −20° | 883 | 4 | 29.5 | −20 | 18.5 | 8.0 | ∧ J |
| 60 | −20° | 884 | 4 | 29.6 | −20 | 28.6 | 8.4 | ∧ J |
| 61 | −19° | 946 | 4 | 24.8 | −19 | 47.5 | 8.5 | ∧ J |
| 62 | −20° | ~~572~~ 570 | ~~4~~ N | ~~29.0~~ 28.0 | ~~−20~~ −20 | ~~4.1~~ 10.1 | ~~8.8~~ 9.0 | ∧ J |
| 63 | −19° | 952 | 4 | 26.5 | −19 | 54.9 | 8.6 | ∧ J |
| 64 | −19° | 954 | 4 | 26.8 | −19 | 40.1 | 7.9 | ∧ J |
| 65 | −20° | 872 | 4 | 27.0 | −20 | 4.1 | 8.8 | ∧ J |
| 66 | −20° | 874 | 4 | 27.2 | −20 | 2.5 | 9.1 | ∧ J |
| 67 | −19° | 956 | 4 | 27.5 | −19 | 28.7 | 8.5 | ∧ J |
| 68 | −18° | 869 | 4 | 27.5 | −18 | 29.5 | 7.7 | ∧ J |
| 69 | −19° | 959 | 4 | 28.4 | −19 | 30.7 | 9.0 | ∧ J |
| 70 | −19° | 964 | 4 | 29.4 | −19 | 31.3 | 9.0 | ∧ J |
| 71 | −19° | 965 | 4 | 29.7 | −19 | 1.6 | 8.5 | ∧ J |
| 72 | −17° | 913 | 4 | 29.8 | −17 | 44.9 | 7.2 | ∧ J |
| 73 | −17° | 919 | 4 | 31.3 | −17 | 42.2 | 8.0 | ∧ J |
| 74 | −18° | 883 | 4 | 31.6 | −18 | 6.2 | 7.2 | ∧ J |
| 75 | −18° | 881 | 4 | 31.3 | −18 | 37.4 | 7.2 | ∧ J |
| 76 | −20° | 889 | 4 | 31.1 | −20 | 1.7 | 9.0 | ∧ J |
| 77 | −19° | 979 | 4 | 32.1 | −19 | 55.6 | 7.2 | ∧ J |
| 78 | −19° | 978 | 4 | 32.1 | −19 | 8.0 | 8.7 | ∧ J |
| 79 | −18° | 886 | 4 | 32.3 | −18 | 57.5 | 8.5 | ∧ J |
| 80 | −19° | 981 | 4 | 32.5 | −19 | 10.8 | 8.7 | ∧ J |
| 81 | −19° | 980 | 4 | 32.5 | −19 | 17.0 | 9.1 | ∧ J |

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B 23810 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 3 | K0 | |
| 83 | 10 | Ma | |
| 84 | 1 | K | |
| 85 | 3 | ly0 | |
| 86 | 2 | ly | |
| 87 | 2 | A | |
| 88 | 2 | A | Another star superposed at south. |
| 89 | 2 | K2 | |
| 90 | 2 | ly5 | |
| 91 | 3 | F8 | |
| 92 | 10 | B8 | Difficult |
| 93 | 2 | ly0 | |
| 94 | 3 | A0 | |
| 95 | 2 | F5 | |
| 96 | 1 | K | |
| 97 | 7 | ly5 | Stars superposed on pr. side. |
| 98 | 7 | F2 | |
| 99 | 7 | ly5 | |
| time 1.00 | 100 | 5 | ly5 |
| time 2.56 | 101 | 4 | K2 |
| | 102 | 4 | ly? Too much superpose on 103 |
| | 103 | 6 | A0 Looks rip. |
| | 104 | 6 | ly5 |
| | 105 | 5 | F8 |
| | 106 | 2 | K0 |
| | 107 | 6 | ly0 |
| | 108 | 10 | K0 |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | -19° | 985 | 4 | 33.0 | -19 | 26.0 | 8.5 ^ J |
| 83 | -19° | 988 | 4 | 34.1 | -19 | 57.3 | 7.5 ^ J |
| 84 | -19° | 982 | 4 | 32.6 | -19 | 54.9 | 9.1 ^ J |
| 85 | -20° | 896 | 4 | 32.7 | -20 | 1.0 | 9.0 ^ J |
| 86 | -20° | 903 | 4 | 33.5 | -20 | 11.2 | 9.0 ^ J |
| 87 | -20° | 904 | 4 | 33.5 | -20 | 21.3 | 9.3 ^ J |
| 88 | -20° | 902 | 4 | 33.4 | -20 | 28.5 | 9.6 ^J -20° 901 magn 9.6 superposed |
| 89 | -20° | 906 | 4 | 34.1 | -20 | 47.0 | 8.8 ^ J |
| 90 | -20° | 887 | 4 | 30.6 | -20 | 24.0 | 8.6 ^ J |
| 91 | -20° | 891 | 4 | 31.2 | -20 | 29.8 | 8.8 ^ J |
| 92 | -20° | 892 | 4 | 31.7 | -20 | 58.9 | 6.8 ^ J |
| 93 | -21° | 933 | 4 | 31.9 | -21 | 8.0 | 8.8 ^ J |
| 94 | -21° | 934 | 4 | 32.1 | -21 | 40.7 | 9.0 ^ J |
| 95 | -21° | 937 | 4 | 32.5 | -21 | 42.4 | 8.8 ^ J |
| 96 | -21° | 938 | 4 | 33.0 | -21 | 35.3 | 9.2 ^ J |
| 97 | -21° | 941 | 4 | 33.4 | -21 | 31.7 | 7.3 ^J -21° 940 magn. 8.9 superposed |
| 98 | -21° | 953 | 4 | 36.3 | -21 | 15.0 | 9.3 ^ J |
| 99 | -20° | 923 | 4 | 37.5 | -20 | 37.8 | 7.5 ^ J |
| 100 | -20° | 924 | 4 | 38.5 | -20 | 16.9 | 8.3 ^ J |
| 101 | -20° | 925 | 4 | 38.6 | -20 | 32.6 | 8.0 ^ J |
| 102 | -21° | 958 | 4 | 37.4 | -21 | 0.3 | 8.8/8.8 ^ J |
| 103 | -21° | 957 | 4 | 37.4 | -21 | 4.4 | 8.8/8.8 ^ J |
| 104 | -21° | 960 | 4 | 37.8 | -21 | 22.8 | 7.6 ^ J |
| 105 | -21° | 959 | 4 | 37.5 | -21 | 43.2 | 8.6 ^ J |
| 106 | -21° | 962 | 4 | 37.9 | -21 | 48.7 | 9.1 ^ J |
| 107 | -21° | 961 | 4 | 37.8 | -21 | 57.7 | 8.7 ^ J |
| 108 | -21° | 966 | 4 | 38.8 | -21 | 33.1 | 5.5 ^ J |

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May 14, 1912 (cont.)

B23810 short disp.

| No. | Dist | class | Remarks. |
|---|---|---|---|
| 109 | 7 | Fo | |
| 110 | 5 | A5 | |
| 111 | 9 | f5 | |
| 112 | 8 | Ao | |
| 113 | 5 | F2 | |
| 114 | 5 | F8 | |
| 115 | 3 | K2 | |
| 116 | 4 | Ma | |
| 117 | 3 | K5 | |
| 118 | 2 | fo | |
| 119 | 6 | Ko | |
| 120 | 8 | Mt | E. |
| 121 | 3 | f | E. |
| 122 | 4 | Ko | E. |
| 123 | 2 | f5 | |
| 124 | 6 | f5 | |
| 125 | 8 | f5 | |
| 126 | 3 | f5 | |
| 127 | 10+ | A | Burned out. |
| 128 | 2 | f | |
| 129 | 7 | fo | |
| 130 | 3 | Ko | |
| 131 | 2 | Ko | |
| 132 | 7 | Ao | |
| 133 | 4 | fo | |
| 134 | 3 | A3 | Difficult |
| 135 | 4 | Ka | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 109 | −21° | 970 | 4 | 40.0 | −21 | 43.8 | 8.5 | ∧ ∨ |
| 110 | −21° | 976 | 4 | 40.6 | −21 | 57.2 | 8.8 | ∧ ∨ |
| 111 | −21° | 977 | 4 | 40.7 | −21 | 28.5 | 7.0 | ∧ ∨ |
| 112 | −21° | 979 | 4 | 41.5 | −21 | 4.3 | 7.8 | ∧ ∨ |
| 113 | −21° | 982 | 4 | 42.0 | −21 | 10.2 | 8.5 | ∧ ∨ |
| 114 | −20° | 989 | 4 | 42.3 | −20 | 40.9 | 8.3 | ∧ ∨ |
| 115 | −20° | 984 | 4 | 41.4 | −20 | 39.2 | 8.4 | ∧ ∨ |
| 116 | −20° | 988 | 4 | 42.1 | −20 | 6.6 | 7.7 | ∧ ∨ |
| 117 | −19° | 1014 | 4 | 42.0 | −19 | 59.3 | 8.0 | ∧ ∨ |
| 118 | −20° | 985 | 4 | 41.4 | −20 | 12.0 | 8.8 | ∧ ∨ |
| 119 | −22° | 920 | 4 | 43.0 | −22 | 8.6 | 7.9 | ∧ ∨ |
| 120 | −21° | 831 | 4 | 12.0 | −21 | 4.2 | 6.2 | ∧ ∨ |
| 121 | −21° | 832 | 4 | 12.2 | −21 | 6.8 | 8.8 | ∧ ∨ |
| 122 | −21° | 829 | 4 | 11.3 | −21 | 36.8 | 8.1 | ∧ ∨ |
| 123 | −21° | 843 | 4 | 14.2 | −21 | 33.8 | 8.7 | ∧ ∨ |
| 124 | −21° | 842 | 4 | 14.1 | −21 | 40.9 | 7.3 | ∧ ∨ |
| 125 | −21° | 845 | 4 | 14.8 | −21 | 35.6 | 7.2 | ∧ ∨ |
| 126 | −21° | 848 | 4 | 15.2 | −21 | 16.3 | 8.3 | ∧ ∨ |
| 127 | −20° | 831 | 4 | 14.3 | −20 | 59.1 | 5.0 | ∧ ∨ |
| 128 | −21° | 852 | 4 | 16.6 | −21 | 5.8 | 8.5 | ∧ ∨ |
| 129 | −22° | 809 | 4 | 15.5 | −22 | 6.8 | 7.2 | ∧ ∨ |
| 130 | −22° | 813 | 4 | 16.9 | −22 | 27.7 | 8.0 | ∧ ∨ |
| 131 | −21° | 854 | 4 | 16.9 | −21 | 57.4 | 8.9 | ∧ ∨ |
| 132 | −22° | 819 | 4 | 18.4 | −22 | 12.4 | 8.2 | ∧ ∨ |
| 133 | −23° | 1886 | 4 | 17.1 | −23 | 8.9 | 8.7 | ∧ ∨ |
| 134 | −23° | 1896 | 4 | 17.8 | −23 | 27.6 | 9.3 | ∧ ∨ |
| 135 | −23° | 1905 | 4 | 18.4 | −23 | 15.5 | 8.6 | ∧ ∨ |

cards made out

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May 14, 1912

B23810 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 4 | Fe | |
| 137 | 3 | ly | |
| 138 | 2 | Fs | Image very hazy |
| 139 | 8 | A0 | |
| 140 | 3 | K0 | |
| 141 | 1 | K | |
| 142 | 8 | ly5 | |
| 143 | 5 | D9 | |
| 144 | 4 | Fe | |
| 145 | 4 | Fs | |
| 146 | 5 | ly0 | |
| 147 | 10 | A2 | |
| 148 | 3 | K0 | |
| 149 | 4 | F2 | |
| 150 | 4 | K2 | |
| 151 | 2 | Fe | |
| 152 | 2 | F | |
| 153 | 2 | ly5 | |
| 154 | 9 | A2 | |
| 155 | 3 | ly0 | |
| 156 | 2 | K2 | |
| 157 | 7 | A3 | |
| 158 | 4 | F2 | |
| 159 | 2 | ly | |
| 160 | 2 | ly | |
| 161 | 2 | ly5 | |
| 162 | 2 | F | Difficult. Region of K not seen distinctly. |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 136 | C.M. -22° | 1628 | 4 | 20.6 | -22 | 56.9 | 8.9 | ^ J |
| 137 | -23° | 1920 | 4 | 20.8 | -23 | 23.9 | 9.0 | ^ J |
| 138 | -23° | 1924 | 4 | 21.0 | -23 | 18.5 | 9.4 | ^ J |
| 139 | -23° | 1927 | 4 | 21.2 | -23 | 24.9 | 7.9 | ^ J |
| 140 | -23° | 1931 | 4 | 21.6 | -23 | 14.2 | 8.3 | ^ J |
| 141 | -23° | 1948 | 4 | 22.8 | -23 | 0.0 | 9.2 | ^ J |
| 142 | -23° | 1950 | 4 | 22.9 | -23 | 3.0 | 7.3 | ^ J |
| 143 | -23° | 1952 | 4 | 23.0 | -23 | 22.6 | 8.4 | ^ J |
| 144 | -23° | 1956 | 4 | 23.1 | -23 | 43.5 | 8.9 | ^ J |
| 145 | -23° | 1971 | 4 | 24.3 | -23 | 19.2 | 8.7 | ^ J |
| 146 | -22° | 838 | 4 | 23.1 | -22 | 50.2 | 8.5 | -22° 837 Superposed. magn. 9.2 |
| 147 | -23° | 1983 | 4 | 25.3 | -23 | 17.2 | 6.8 | ^ J |
| 148 | -23° | 1978 | 4 | 24.8 | -23 | 48.1 | 8.7 | ^ J |
| 149 | -23° | 1980 | 4 | 25.1 | -23 | 46.3 | 8.5 | ^ J |
| 150 | -23° | 1985 | 4 | 25.5 | -23 | 40.8 | 8.2 | ^ J |
| 151 | -23° | 1987 | 4 | 25.7 | -23 | 46.1 | 9.3 | ^ J |
| 152 | -23° | 1994 | 4 | 26.0 | -23 | 38.4 | 9.7 | ^ J |
| 153 | -23° | 1995 | 4 | 26.2 | -23 | 19.5 | 9.1 | ^ J |
| 154 | -24° | 2401 | 4 | 26.6 | -24 | 22.8 | 7.5 | ^ J |
| 155 | -24° | 2415 | 4 | 27.8 | -24 | 16.1 | 8.9 | ^ J |
| 156 | -24° | 2416 | 4 | 28.0 | -24 | 17.4 | 9.0 | ^ J |
| 157 | -24° | 2419 | 4 | 28.2 | -24 | 11.7 | 8.5 | ^ J |
| 158 | -23° | 2008 | 4 | 28.0 | -23 | 50.8 | 9.1 | ^ J |
| 159 | -23° | 2007 | 4 | 27.8 | -23 | 36.4 | 9.6 | ^ J |
| 160 | -23° | 2009 | 4 | 28.1 | -23 | 15.2 | 9.0 | ^ J |
| 161 | -23° | 2032 | 4 | 30.0 | -23 | 32.8 | 8.9 | ^ J |
| 162 | -22° | 858 | 4 | 29.6 | -22 | 256 | 9.0 | ^ J |
| | | | | | cards | made | out | |

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B 23810 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 163 | 4 | $Ly^5$ | |
| 164 | 7 | $B_9$ | |
| 165 | 4 | $Ly^0$ | |
| 166 | 8 | $B_9$ | |
| 167 | 8 | $B_8$ | |
| 168 | 2 | Ly | |
| 169 | 5 | $A_0$ | |
| 170 | 2 | $Ly^5$ | |
| 171 | 3 | $K_0$ | |
| 172 | 6 | $K_5$ | |
| 173 | 2 | $K_2$ | |
| 174 | 3 | $K_0$ | |
| 175 | 5 | $Ly^0$ | |
| 176 | 2 | $Ly^5$ | |
| 177 | 2 | $Ly^5$ | |
| 178 | 2 | Ly | |
| 179 | 3 | $K_5$ | Maybe Mas. |
| 180 | 8 | $F_2$ | |
| 181 | 2 | $K_2$ | |
| 182 | 8 | $F_0$ | |
| 183 | 7 | $A_3$ | |
| 184 | 3 | Ly | |
| 185 | 5 | $A_5$ | |
| 186 | 2 | $K_2$ | |
| 187 | 4 | $F_5$ | |
| 188 | 3 | $F_8$ | Focus poor. |
| 189 | 5 | $Ly^0$ | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 163 | − 22° | 861 | 4 | 30.2 | − 22 | 33.3 | 8.0 | ∧ ∫ |
| 164 | − 22° | 863 | 4 | 30.5 | − 22 | 34.6 | 8.2 | ∧ ∫ |
| 165 | − 22° | 864 | 4 | 30.7 | − 22 | 36.0 | 8.6 | ∧ ∫ |
| 166 | − 22° | 867 | 4 | 31.0 | − 22 | 54.9 | 7.0 | ∧ ∫ |
| 167 | − 23° | 2052 | 4 | 32.0 | − 23 | 18.3 | 7.8 | ∧ ∫ |
| 168 | − 23° | 2062 | 4 | 32.7 | − 23 | 10.8 | 9.4 | ∧ ∫ |
| 169 | − 22° | 878 | 4 | 33.9 | − 22 | 54.1 | 8.0 | ∧ ∫ |
| 170 | − 22° | 882 | 4 | 34.9 | − 22 | 40.0 | 8.9 | ∧ ∫ |
| 171 | − 23° | 2091 | 4 | 35.5 | − 23 | 17.4 | 8.3 | ∧ ∫ |
| 172 | − 23° | 2106 | 4 | 37.1 | − 23 | 25.1 | 7.0 | ∧ ∫ |
| 173 | − 22° | 887 | 4 | 35.9 | − 22 | 53.3 | 8.8 | ∧ ∫ |
| 174 | − 22° | 895 | 4 | 36.8 | − 22 | 30.2 | 8.5 | ∧ ∫ |
| 175 | − 22° | 896 | 4 | 36.9 | − 22 | 36.0 | 8.2 | ∧ ∫ |
| 176 | − 22° | 891 | 4 | 36.5 | − 22 | 7.0 | 9.0 | ∧ ∫ |
| 177 | − 21° | 948 | 4 | 35.5 | − 21 | 38.6 | 8.7 | ∧ ∫ |
| 178 | − 22° | 904 | 4 | 38.9 | − 22 | 22.6 | 8.9 | ∧ ∫ |
| 179 | − 23° | 2132 | 4 | 39.7 | − 23 | 4.8 | 9.0 | ∧ ∫ |
| 180 | − 23° | 2115 | 4 | 38.0 | − 23 | 51.7 | 7.2 | ∧ ∫ |
| 181 | − 24° | 2530 | 4 | 37.9 | − 24 | 4.8 | 8.4 | ∧ ∫ |
| 182 | − 24° | 2529 | 4 | 37.8 | − 24 | 32.5 | 7.6 | ∧ ∫ |
| 183 | − 25° | 2027 | 4 | 38.6 | − 25 | 1.0 | 8.1 | ∧ ∫ |
| 184 | − 24° | 2541 | 4 | 39.0 | − 24 | 43.5 | 9.0 | ∧ ∫ |
| 185 | − 24° | 2556 | 4 | 40.1 | − 24 | 22.2 | 7.6 | ∧ ∫ |
| 186 | − 24° | 2554 | 4 | 40.0 | − 24 | 3.4 | 8.9 | ∧ ∫ |
| 187 | − 24° | 2545 | 4 | 39.5 | − 24 | 9.3 | 8.8 | ∧ ∫ |
| 188 | − 23° | 2130 | 4 | 39.4 | − 23 | 55.7 | 8.9 | ∧ ∫ |
| 189 | − 23° | 2141 | 4 | 40.7 | − 23 | 31.5 | 8.7 | ∧ ∫ |
| | | | | | cards | made | out | |

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May 14, 1912

B23810 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 190 | 7 | Fe | |
| 191 | 4 | Ly5 | |
| 192 | 3 | Ko | |
| 193 | 5 | A | |
| 194 | 5 | Ko | |
| 195 | 8 | Fe | |
| 196 | 10 | A2 | Burned out. |
| 197 | 6 | Ly | Poor focus. |
| 198 | 8 | F5 | " " |
| 199 | 5 | A5 | |
| 200 | 7 | A2 | |
| 201 | 8 | F5 | |
| 202 | 8 | Fe | |
| 203 | 7 | Ly5 | |
| 204 | 3 | Ko | |
| 205 | 2 | A | |
| 206 | 2 | Ly5 | |
| 207 | 7 | B | Cannot subdivide. |
| 208 | 10+ | K | Burned out. |
| 209 | 4 | Ma | |
| 210 | 2 | Ly5 | |
| 211 | 3 | F | |

Time: 3.18

Cml. 132, ~~211~~ 22



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 190 | −23° | 2149 | 4 | 41.3 | − 23 | 0.8 | 8.2 | ^ v |
| 191 | −22° | 916 | 4 | 41.2 | − 22 | 49.0 | 8.3 | ^ v |
| 192 | − 23° | 2167 | 4 | 42.2 | − 23 | 10.2 | 8.6 | ^ v |
| 193 | − 22° | 924 | 4 | 43.1 | − 22 | 59.2 | 8.4 | ^ v |
| 194 | − 23° | 2183 | 4 | 43.9 | − 23 | 16.3 | 7.8 | ^ v |
| 195 | − 23° | 2182 | 4 | 43.6 | − 23 | 29.8 | 7.7 | ^ v |
| 196 | − 24° | 2343 | 4 | 21.7 | − 24 | 21.5 | 6.2 | ^ v |
| 197 | − 24° | 2354 | 4 | 22.3 | − 24 | 44.5 | 7.8 | ^ v |
| 198 | − 24° | 2359 | 4 | 22.6 | − 24 | 14.9 | 9.1 | ^ v |
| 199 | − 24° | 2369 | 4 | 23.2 | − 24 | 9.7 | 8.9 | ^ v |
| 200 | − 25° | 1941 | 4 | 27.5 | − 25 | 29.0 | 7.6 | ^ v |
| 201 | − 25° | 1961 | 4 | 29.7 | − 25 | 17.5 | 7.3 | ^ v |
| 202 | − 24° | 2439 | 4 | 30.1 | − 24 | 47.7 | 6.9 | ^ v |
| 203 | − 24° | 2433 | 4 | 29.4 | − 24 | 18.0 | 6.7 | ^ v |
| 204 | − 24° | 2445 | 4 | 30.7 | − 24 | 48.0 | 8.5 | ^ v |
| 205 | − 24° | 2449 | 4 | 31.0 | − 24 | 40.1 | 9.2 | ^ v |
| 206 | − 24° | 2459 | 4 | 32.1 | − 24 | 17.8 | 9.2 | ^ v |
| 207 | − 24° | 2465 | 4 | 33.1 | − 24 | 55.0 | 8.3 | ^ v |
| 208 | − 24° | 2488 | 4 | 34.9 | − 24 | 43.8 | 6.0 | ^ v |
| 209 | − 24° | 2510 | 4 | 36.3 | − 24 | 12.8 | 7.4 | ^ v |
| 210 | − 23° | 2097 | 4 | 36.0 | − 23 | 50.0 | 9.2 | ^ v |
| 211 | − ~~23~~ 24° | 2473 | 4 | 33.8 | − ~~23~~ 24 | 0.7 | 9.1 | ^ v |

Identified by AMC. Sept. 4, 1912

Checked Oct. 15. 1912. L.D.W.

cards made out by M. C. W.

Cards checked by E.K.B.

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Wednesday, May 14, 1912

Time: 22. 45

B 24 326 short slitless.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 3 | K0 | |
| 2 | 3 | K0 | |
| 3 | 3 | A2 | |
| 4 | 4 | fg5 | |
| 5 | 3 | A2 | |
| 6 | 4 | F5 | |
| 7 | 2 | K5 | |
| 8 | 7 | A5 | |
| 9 | 2 | K0 | |
| 10 | 8 | K0 | |
| 11 | 1 | fg | |
| 12 | 2 | K2 | |
| 13 | 4 | F5 | |
| 14 | 4 | F6 | Another star superposed ? |
| 15 | 4 | F5 | |
| 16 | 8 | fg5 | |
| 17 | 1 | fg | |
| 18 | 2 | fg | Purity superposed on 17. |
| 19 | 8 | fg0 | |
| 20 | 1 | K | |
| 21 | 3 | K2 | |
| 22 | 4 | F5 | |
| 23 | 4 | fg0 | |
| 24 | 7 | fg0 | |
| 25 | 10 | A0 | |
| 26 | 2 | fg0 | |
| 27 | 5 | A2 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -19° | 666 | 3 | 16.2 | -19 | 37.1 | 8.5 | ∧∨ |
| 2 | -18° | 601 | 3 | 17.8 | -18 | 59.1 | 8.3 | ∧∣ |
| 3 | -18° | 605 | 3 | 18.9 | -18 | 12.5 | 8.3 | ∧∫ |
| 4 | -18° | 608 | 3 | 19.5 | -18 | 57.0 | 8.0 | ∧∣ |
| 5 | -18° | 610 | 3 | 20.0 | -18 | 44.0 | 8.5 | ∧∫ |
| 6 | -19° | 674 | 3 | 19.7 | -19 | 24.3 | 8.3 | ∧∨ |
| 7 | -19° | 680 | 3 | 20.6 | -19 | 12.3 | 8.5 | ∧∨ |
| 8 | -18° | 612 | 3 | 22.1 | -18 | 53.1 | 8.1 | ∧∨ |
| 9 | -19° | 683 | 3 | 22.1 | -19 | 9.3 | 8.5 | ∧∨ |
| 10 | -18° | 622 | 3 | 24.3 | -18 | 37.6 | 7.5 | ∧∫ |
| 11 | -18° | 623 | 3 | 24.5 | -18 | 36.6 | 8.5 | ∧∫ |
| 12 | -18° | 625 | 3 | 25.2 | -18 | 58.5 | 8.4 | ∧∫ |
| 13 | -18° | 627 | 3 | 26.5 | -18 | 53.9 | 8.3 | ∧∫ |
| 14 | -20° | 643 | 3 | 21.3 | -20 | 18.8 | 8.0 | ∧∫ |
| 15 | -20° | 645 | 3 | 21.6 | -20 | 15.0 | 8.5 | ∧∫ |
| 16 | -20° | 648 | 3 | 22.9 | -20 | 3.0 | 7.0 | ∧∣ |
| 17 | -20° | 654 | 3 | 23.4 | -20 | 2.9 | 8.9 | ∧∫ |
| 18 | -20° | 650 | 3 | 23.4 | -20 | 8.0 | 8.9 | ∧∨ |
| 19 | -19° | 694 | 3 | 24.1 | -19 | 55.7 | 7.5 | ∧∫ |
| 20 | -19° | 693 | 3 | 24.1 | -19 | 34.7 | 9.0 | ∧∣ |
| 21 | -19° | 698 | 3 | 25.3 | -19 | 48.3 | 8.3 | ∧∨ |
| 22 | -19° | 700 | 3 | 26.4 | -19 | 45.1 | 8.5 | ∧∨ |
| 23 | -19° | 703 | 3 | 27.1 | -19 | 33.0 | 8.5 | ∧∣ |
| 24 | -19° | 707 | 3 | 29.7 | -19 | 1.7 | 8.0 | ∧∨ |
| 25 | -19° | 708 | 3 | 29.9 | -19 | 51.1 | 7.3 | ∧∨ |
| 26 | -20° | 676 | 3 | 29.3 | -20 | 30.6 | 8.7 | ∧∨ |
| 27 | -20° | 677 | 3 | 29.4 | -20 | 38.0 | 8.2 | ∧∫ |

No star superposed on first image.

Cards made out.

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May 14, 1912

B24 326 short disp.

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 3 | Fe | |
| 29 | 2 | F5 | |
| 30 | 6 | Ko | |
| 31 | 2 | Fe | |
| 32 | 5 | Gpo | |
| 33 | 8 | G5 | |
| 34 | 3 | Ge | |
| 35 | 8 | G5 | |
| 36 | 2 | Ke | |
| 37 | 1 | Ke | Partly superposed on 36. |
| 38 | 10 | Qo | |
| 39 | 2 | Ko | |
| 40 | 9 | Oe | |
| 41 | 8 | Ko | |
| 42 | 4 | Gpo | |
| 43 | 4 | F5 | E. |
| 44 | 6 | Ao | E. |
| 45 | 8 | F5 | E. |
| 46 | 10+ | Be | E. |
| 47 | 3 | Ko | E. |
| 48 | 2 | G | |
| 49 | 5 | G5 | |
| 50 | 8 | K | E. |
| 51 | 7 | F5 | E. |
| 52 | 2 | Ke | |
| 53 | 3 | G5 | |
| 54 | 1 | K | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -21° | 663 | 3 | 31.0 | -21 | 22.5 | 8.8 | ∧ ∨ |
| 29 | -20° | 680 | 3 | 31.3 | -20 | 57.2 | 8.5 | ∧ ∣ |
| 30 | -20° | 684 | 3 | 32.4 | -20 | 41.3 | 7.3 | ∧ ∨ |
| 31 | -20° | 685 | 3 | 33.0 | -20 | 35.2 | 8.5 | ∧ ∨ |
| 32 | -21° | 667 | 3 | 33.0 | -21 | 3.8 | 8.0 | ∧ ∨ |
| 33 | -20° | 686 | 3 | 33.7 | -20 | 3.6 | 6.5 | ∧ ∨ |
| 34 | -19° | 723 | 3 | 34.0 | -19 | 53.4 | 8.8 | ∧ ∣ |
| 35 | -19° | 724 | 3 | 34.2 | -19 | 56.5 | 7.0 | ∧ ∨ |
| 36 | -19° | 725 | 3 | 34.7 | -19 | 51.9 | 8.6 | ∧ ∨ |
| 37 | -19° | 726 | 3 | 34.7 | -19 | 55.6 | 9.1 | ∧ ∨ |
| 38 | -20° | 687 | 3 | 34.9 | -20 | 2.9 | 6.6 | ∧ ∨ |
| 39 | -19° | 728 | 3 | 35.7 | -19 | 28.1 | 8.9 | ∧ ∣ |
| 40 | -19° | 732 | 3 | 36.2 | -19 | 10.4 | 7.4 | ∧ ∨ |
| 41 | -19° | 733 | 3 | 37.4 | -19 | 34.5 | 7.0 | ∧ ∨ |
| 42 | -19° | 737 | 3 | 38.5 | -19 | 35.7 | 8.5 | ∧ ∨ |
| 43 | -17° | 677 | 3 | 22.9 | -17 | 30.0 | 8.0 | ∧ ∨ |
| 44 | -17° | 683 | 3 | 24.4 | -17 | 39.8 | 7.5 | ∧ ∨ |
| 45 | -17° | 685 | 3 | 24.8 | -17 | 16.6 | 7.0 | ∧ ∣ |
| 46 | -17° | 699 | 3 | 29.7 | -17 | 56.6 | 5.0 | ∧ ∨ |
| 47 | -18° | 639 | 3 | 30.6 | -18 | 21.9 | 8.2 | ∧ ∣ |
| 48 | -19° | 714 | 3 | 32.0 | -19 | 13.3 | 8.7 | ∧ ∨ |
| 49 | -19° | 717 | 3 | 33.0 | -19 | 28.2 | 8.0 | ∧ ∨ |
| 50 | -17° | 707 | 3 | 33.0 | -17 | 50.1 | 6.8 | ∧ ∨ |
| 51 | -17° | 715 | 3 | 35.5 | -17 | 36.6 | 7.5 | ∧ ∨ |
| 52 | -20° | 690 | 3 | 35.2 | -20 | 49.9 | 8.5 | ∧ ∨ |
| 53 | -21° | 677 | 3 | 36.2 | -21 | 0.9 | 8.3 | ∧ ∨ |
| 54 | -21° | 675 | 3 | 36.0 | -21 | 9.6 | 8.8 | ∧ ∨ |

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May 14, 1912

B 24326 short disp.

| No. | Int | Class | Remark |
|---|---|---|---|
| 55 | 5 | $Iy5$ | |
| 56 | 2 | $Fo$ | |
| 57 | 2 | $F5$ | |
| 58 | 4 | $Ko$ | |
| 59 | 3 | $Iy5$ | |
| 60 | 4 | $Fo$ | |
| 61 | 3 | $Iy0$ | |
| 62 | 2 | $A0$ | |
| 63 | 5 | $F5$ | |
| 64 | 3 | $K5$ | |
| 65 | 2 | $Iy5$ | |
| 66 | 2 | $Iy0$ | |
| 67 | 1 | $K$ | |
| 68 | 3 | $F8$ | |
| 69 | 2 | $F5$ | |
| 70 | 2 | $Iy$ | |
| 71 | 9 | $A5$ | |
| 72 | 2 | $Iy5$ | |
| 73 | 9 | $K$ | E. |
| 74 | 5 | $A5$ | E. |
| 75 | 3 | $A5$ | |
| 76 | 5 | $Ko$ | |
| 77 | 2 | $Ko$ | |
| 78 | 3 | $A2$ | |
| 79 | 2 | $F5$ | |
| 80 | 10 | $A$ | |
| 81 | 1 | $K$ | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | -21° | 674 | 3 | 35.6 | -21 | 42.0 | 8.0 | ∧ / |
| 56 | -21° | 676 | 3 | 36.0 | -21 | 35.1 | 9.0 | ∧ ✓ |
| 57 | -22° | 658 | 3 | 36.4 | -22 | 2.0 | 9.0 | ∧ ✓ |
| 58 | -22° | 657 | 3 | 36.3 | -22 | 26.4 | 8.3 | ∧ / |
| 59 | -22° | 659 | 3 | 37.0 | -22 | 44.6 | 8.5 | ∧ ✓ |
| 60 | -22° | 662 | 3 | 37.6 | -22 | 23.8 | 8.6 | ∧ / |
| 61 | -22° | 665 | 3 | 37.8 | -22 | 29.8 | 8.7 | ∧ / |
| 62 | -21° | 683 | 3 | 38.3 | -21 | 57.9 | 9.1 | ∧ / |
| 63 | -22° | 667 | 3 | 38.6 | -22 | 2.7 | 8.3 | ∧ ∨ |
| 64 | -21° | 682 | 3 | 38.0 | -21 | 34.0 | 7.8 | ∧ / |
| 65 | -21° | 685 | 3 | 38.4 | -21 | 45.3 | 8.8 | ∧ ∨ |
| 66 | -21° | 687 | 3 | 38.8 | -21 | 45.7 | 9.0 | ∧ ✓ |
| 67 | -21° | 689 | 3 | 39.1 | -21 | 41.3 | 8.8 | ∧ ✓ |
| 68 | -21° | 692 | 3 | 39.5 | -21 | 26.2 | 8.7 | ∧ / |
| 69 | -21° | 694 | 3 | 39.7 | -21 | 32.6 | 9.1 | ∧ ✓ |
| 70 | -21° | 695 | 3 | 39.9 | -21 | 16.4 | 8.7 | ∧ / |
| 71 | -20° | 700 | 3 | 38.9 | -20 | 58.3 | 7.3 | ∧ ∨ |
| 72 | -20° | 701 | 3 | 39.1 | -20 | 42.0 | 8.7 | ∧ / |
| 73 | -21° | 703 | 3 | 42.2 | -21 | 20.8 | 5.7 | ∧ ✓ |
| 74 | -22° | 680 | 3 | 41.8 | -22 | 1.3 | 7.8 | ∧ ✓ |
| 75 | -22° | 699 | 3 | 38.9 | -22 | 25.7 | 9.2 | ∧ ✓ |
| 76 | -22° | 672 | 3 | 39.1 | -22 | 34.2 | 8.2 | ∧ ✓ |
| 77 | -22 | 671 | 3 | 39.1 | -22 | 48.2 | 9.0 | ∧ ✓ |
| 78 | -22° | 675 | 3 | 40.0 | -22 | 25.3 | 9.0 | ∧ ✓ |
| 79 | -22° | 679 | 3 | 40.9 | -22 | 27.9 | 9.0 | ∧ ✓ |
| 80 | -20° | 625 | 3 | 15.2 | -20 | 50.9 | 6.6 | ∧ ✓ |
| 81 | -20° | 626 | 3 | 15.5 | -20 | 33.6 | 8.5 | ∧ ✓ |

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May 14. 1912

B 24 32 6 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 2 | F8 | |
| 83 | 6 | G5 | |
| 84 | 2 | K | |
| 85 | 6 | G5 | |
| 86 | 6 | F5 | |
| 87 | 2 | A | |
| 88 | 1 | G5 | |
| 89 | 1 | A | |
| 90 | 3 | G0 | |
| 91 | 4 | G9 | |
| 92 | 4 | K2 | |
| 93 | 7 | F0 | |
| 94 | 6 | B5 | |
| 95 | 2 | F8 | |
| 96 | 4 | G5 | |
| 97 | 7 | A2 | |
| 98 | 2 | G5 | |
| 99 | 10+ | A | Burned out. Maybe B. |
| 100 | 1 | A | Maybe F |
| 101 | 1 | K | ~~Maybe F.~~ |
| 102 | 2 | K5 | |
| 103 | 6 | F2 | |
| 104 | 5 | A2 | |
| 105 | 6 | F8 | |
| 106 | 5 | G5 | |
| 107 | 5 | F5 | |
| 108 | 6 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 82 | -21° | 611 | 3 | 14.6 | -21 | 38.2 | 9.0 | ∧ ✓ |
| 83 | -21° | 616 | 3 | 15.8 | -21 | 37.4 | 7.0 | ∧ ✓ |
| 84 | -21° | 618 | 3 | 16.3 | -21 | 36.2 | 8.8 | ∧ ✓ |
| 85 | -21° | 619 | 3 | 17.7 | -21 | 27.1 | 7.2 | ∧ ✓ |
| 86 | -21° | 621 | 3 | 18.8 | -21 | 35.3 | 7.8 | ∧ ✓ |
| 87 | -20° | 636 | 3 | 19.1 | -20 | 51.1 | 9.3 | ∧ ✓ |
| 88 | -21° | 623 | 3 | 19.8 | -21 | 17.7 | 8.9 | ∧ ✓ |
| 89 | -21° | 625 | 3 | 19.9 | -21 | 22.8 | 9.4 | ∧ ✓ |
| 90 | -22° | 607 | 3 | 20.3 | -22 | 10.5 | 8.7 | ∧ ✓ |
| 91 | -21° | 630 | 3 | 21.3 | -21 | 54.1 | 8.9 | ∧ ✓ |
| 92 | -21° | 636 | 3 | 22.8 | -21 | 52.3 | 7.8 | ∧ ✓ |
| 93 | -21° | 637 | 3 | 23.2 | -21 | 54.9 | 8.3 | ∧ ✓ |
| 94 | -21° | 644 | 3 | 25.6 | -21 | 44.5 | 8.5 | ∧ ✓ |
| 95 | -21° | 649 | 3 | 26.5 | -21 | 16.7 | 8.8 | ∧ ✓ |
| 96 | -20° | 659 | 3 | 25.4 | -20 | 51.4 | 8.0 | ∧ ✓ |
| 97 | -20° | 663 | 3 | 27.5 | -20 | 51.7 | 8.3 | ∧ ✓ |
| 98 | -20° | 661 | 3 | 27.2 | -20 | 33.6 | 8.6 | ∧ ✓ |
| 99 | -22° | 628 | 3 | 27.4 | -22 | 7.4 | 3.8 | ∧ ✓ |
| 100 | -22° | 627 | 3 | 27.4 | -22 | 25.3 | 8.8 | ∧ ✓ |
| 101 | -22° | 629 | 3 | 27.9 | -22 | 31.6 | 8.8 | ∧ ✓ |
| 102 | -22° | 631 | 3 | 28.3 | -22 | 38.1 | 8.5 | ∧ ✓ |
| 103 | -23° | 1442 | 3 | 28.2 | -23 | 22.4 | 8.2 | ∧ ✓ |
| 104 | -23° | 1445 | 3 | 28.8 | -23 | 16.3 | 8.8 | ∧ ✓ |
| 105 | -23° | 1451 | 3 | 29.6 | -23 | 34.4 | 8.5 | ∧ ✓ |
| 106 | -23° | 1460 | 3 | 30.6 | -23 | 56.9 | 8.4 | ∧ ✓ |
| 107 | -23° | 1463 | 3 | 31.1 | -23 | 46.9 | 8.6 | ∧ ✓ |
| 108 | -22° | 635 | 3 | 30.5 | -22 | 38.1 | 8.0 | ∧ ✓ |

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May 14, 1912

B 24326 chart disfs.

| No. | Mag. | Class | Remark |
|---|---|---|---|
| 109 | 3 | F5 | |
| 110 | 2 | G0 | |
| 111 | 2 | F5 | |
| 112 | 5 | G5 | |
| 113 | 7 | A2 | |
| 114 | 2 | K0 | |
| 115 | 2 | F5 | |
| 116 | 2 | G | |
| 117 | 2 | G0 | |
| 118 | 2 | G | |
| 119 | 7 | A2 | |
| 120 | 5 | K0 | |
| 121 | 8 | A0 | |
| 122 | 8 | K0 | |
| 123 | 1 | A5 | Difficult |
| 124 | 2 | G5 | |
| 125 | 3 | G5 | |
| 126 | 10+ | Ma | |
| 127 | 2 | F8 | |
| 128 | 3 | K2 | |
| 129 | 4 | K0 | |
| 130 | 6 | G5 | Another star superposed? |
| 131 | 2 | K2 | |
| 132 | 9 | K0 | |
| 133 | 2 | F | |
| 134 | 1 | K | |
| 135 | 10 | F2 | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 109 | -22° | 637 | 3 | 30.7 | -22 | 16.1 | 8.7 | ∧ | ∨ |
| 110 | -22° | 638 | 3 | 31.5 | -22 | 34.6 | 8.5 | ∧ | ∨ |
| 111 | -22° | 639 | 3 | 31.9 | -22 | 44.7 | 8.3 | ∧ | ∨ |
| 112 | -22° | 644 | 3 | 32.9 | -22 | 47.8 | 8.0 | ∧ | ∨ |
| 113 | -22° | 648 | 3 | 33.7 | -22 | 56.6 | 8.3 | ∧ | ∨ |
| 114 | -22° | 649 | 3 | 34.6 | -22 | 59.4 | 8.6 | ∧ | ∨ |
| 115 | -21° | 672 | 3 | 34.1 | -21 | 51.2 | 8.6 | ∧ | ∨ |
| 116 | -23° | 650 | 3 | 34.2 | -22 | 25.4 | 9.0 | ∧ | ∨ |
| 117 | -22° | 654 | 3 | 35.8 | -22 | 54.6 | 9.0 | ∧ | ∨ |
| 118 | -23° | 1511 | 8 | 35.9 | -22 | 15.0 | 9.1 | | |
| | | 1519 | 3 | 36.5 | -23 | 16.0 | 7.8 | | ∨ |
| 119 | -23° | 1522 | 3 | 36.7 | -23 | 39.4 | 8.1 | ∧ | ∨ |
| 120 | -23° | 1529 | 3 | 37.4 | -23 | 18.7 | 7.8 | ∧ | ∨ |
| 121 | -24° | 1520 | 3 | 36.6 | -24 | 2.2 | 8.2 | ∧ | ∨ |
| 122 | -23° | 1547 | 3 | 39.5 | -23 | 46.4 | 7.4 | ∧ | ∨ |
| 123 | -23° | 1552 | 3 | 39.8 | -23 | 20.2 | 9.2 | ∧ | ∨ |
| 124 | -22° | 1302 | 3 | 38.8 | -22 | 57.8 | 8.8 | ∧ | ∨ |
| 125 | -23° | 1562 | 3 | 40.8 | -23 | 28.3 | 8.5 | ∧ | ∨ |
| 126 | -22° | 584 | 3 | 13.1 | -22 | 16.9 | 4.0 | ∧ | ∨ |
| 127 | -22° | 591 | 3 | 14.7 | -22 | 4.8 | 9.0 | ∧ | ∨ |
| 128 | -22° | 593 | 3 | 15.6 | -22 | 37.3 | 8.5 | ∧ | ∨ |
| 129 | -22° | 601 | 3 | 18.0 | -22 | 10.8 | 8.4 | ∧ | ∨ |
| 130 | -22° | 605 | 3 | 19.5 | -22 | 34.9 | 8.5 | ∧ | ∨ |
| 131 | -22° | 606 | 3 | 19.7 | -22 | 40.7 | 8.9 | ∧ | ∨ |
| 132 | -22° | 1214 | 3 | 24.3 | -22 | 56.0 | 7.0 | ∧ | ∨ |
| 133 | -22° | 619 | 3 | 24.5 | -22 | 57.8 | 9.2 | ∧ | ∨ |
| 134 | -23° | 1425 | 3 | 28.7 | -23 | 36.4 | 8.7 | ∧ | ∨ |
| 135 | -23° | 1412 | 3 | 24.1 | -23 | 54.2 | 6.9 | ∧ | ∨ |

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B 24 326 short disp.

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 2 | K2 | |
| 137 | 4 | Ky0 | |
| 138 | 4 | Ky5 | |
| 139 | 3 | Bq | |
| 140 | 5 | K0 | |
| 141 | 6 | Bq | |
| 142 | 3 | K2 | |
| 143 | 2 | K5 | |
| 144 | 2 | K0 | |
| 145 | 1 | K | |
| 146 | 2 | Ky0 | |
| 147 | 2 | Ky | |
| 148 | 2 | K0 | |
| 149 | 4 | F8 | |
| 150 | 10 | F | Focus spoor. |
| 151 | 3 | F8 | E. |
| 152 | 3 | Ky5 | E. |
| 153 | 10 | Ky | E. |
| 154 | 8 | Ma | E. |
| 155 | 5 | Ky | E. |
| 156 | 5 | K0 | |
| 157 | 4 | F8 | |
| 158 | 10 | A2 | |
| 159 | 2 | F8 | |
| 160 | 3 | F5 | |
| 161 | 6 | K0 | |
| 162 | 2 | K5 | |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 136 | -24° | ~~1686~~ 1692 | 3 | ~~24.8~~ 24.8 | -24 | ~~10.3~~ 10.6 | ~~8.3~~ 8.3 | ✓ | |
| 137 | -24° | ~~1692~~ 1686 | 3 | ~~24.8~~ 24.5 | -24 | ~~10.6~~ 10.3 | ~~8.3~~ 8.3 | / | |
| 138 | -24° | 1705 | 3 | 26.1 | -24 | 16.6 | 8.6 | ∧ | / |
| 139 | -24° | 1715 | 3 | 27.2 | -24 | 2.9 | 9.1 | ∧ | / |
| 140 | -24° | 1721 | 3 | 27.7 | -24 | 11.6 | 8.0 | ∧ | / |
| 141 | -24° | 1743 | 3 | 29.5 | -24 | 16.7 | 8.7 | ∧ | / |
| 142 | -24° | 1754 | 3 | 30.0 | -24 | 22.0 | 8.4 | ∧ | ✓ |
| 143 | -24° | 1758 | 3 | 30.5 | -24 | 36.2 | 8.7 | ∧ | / |
| 144 | -24° | 1770 | 3 | 31.6 | -24 | 14.2 | 8.7 | ∧ | / |
| 145 | -23° | 1482 | 3 | 33.0 | -23 | 29.8 | 8.5 | ∧ | ✓ |
| 146 | -23° | 1503 | 3 | 35.0 | -23 | 19.4 | 8.9 | ∧ | ✓ |
| 147 | -24° | 1779 | 3 | 33.0 | -24 | 25.2 | 8.6 | ∧ | / |
| 148 | -24° | 1787 | 3 | 33.6 | -24 | 30.5 | 8.3 | ∧ | / |
| 149 | -24° | 1805 | 3 | 34.9 | -24 | 56.0 | 8.4 | ∧ | / |
| 150 | -25° | 1513 | 3 | 36.6 | -25 | 3.1 | 7.0 | ∧ | ✓ |
| 151 | -23° | 1336 | 3 | 15.0 | -23 | 9.7 | 9.0 | ∧ | / |
| 152 | -23° | 1339 | 3 | 15.2 | -23 | 45.4 | 8.3 | ∧ | / |
| 153 | -24° | 1600 | 3 | 15.9 | -24 | 4.5 | 5.7 | ∧ | ✓ |
| 154 | -24° | 1578 | 3 | 14.1 | -24 | 34.5 | 5.9 | ∧ | / |
| 155 | -24° | 1586 | 3 | 15.0 | -24 | 34.2 | 8.0 | ∧ | / |
| 156 | -24° | 1627 | 3 | 18.8 | -24 | 44.9 | 7.5 | ∧ | ✓ |
| 157 | -25° | 1428 | 3 | 23.6 | -25 | 19.1 | 8.1 | ∧ | / |
| 158 | -25° | 1452 | 3 | 27.0 | -25 | 2.1 | 6.9 | ∧ | / |
| 159 | -24° | 1736 | 3 | 28.9 | -24 | 59.1 | 8.8 | ∧ | ✓ |
| 160 | -24° | 1738 | 3 | 29.2 | -24 | 45.6 | 8.9 | ∧ | / |
| 161 | -24° | 1745 | 3 | 29.7 | -24 | 44.1 | 7.8 | ∧ | / |
| 162 | -24° | 1757 | 3 | 30.1 | -24 | 58.1 | 8.5 | ∧ | / |

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May 14, 1912

B 24326 slant disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 163 | 2 | K | |
| 164 | 2 | K2 | |
| 165 | 4 | $\frac{K}{A}$5 | E. |
| 166 | 4 | A2 | |
| 167 | 10 | A0 | |
| Time 23.23 168 | 2 | Nc. | Edges towards red very bright. Var.? |
| +69 | | | |

Cmch. 131, 86



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 163 | -24° | 1759 | 3 | 30.6 | -24 | 55.8 | 8.7 | ∧ | ∨ |
| 164 | -25° | 1465 | 3 | 29.9 | -25 | 18.8 | 8.3 | ∧ | ∨ |
| 165 | -25° | 1474 | 3 | 31.1 | -25 | 22.5 | 8.5 | ∧ | ∨ |
| 166 | -25° | 1485 | 3 | 32.4 | -25 | 10.1 | 8.8 | ∧ | ∨ |
| 167 | -26° | 1333 | 3 | 26.6 | -26 | 1.9 | 6.3 | ∧ | ∨ |
| 168 | -26° | 1336 | 3 | 27.1 | -26 | 4.6 | 8.2 | ∧ | ∨ |

Identified by M. C. W. Aug. 28, 1912.
Checked ident. Aug. 30 1912. L. M. W.
cards made out by M. C. W.

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Wednesday, May 14, 1912

Time: 23.25

B4107 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 3 | Ko | |
| 2 | 3 | ly | |
| 3 | 3 | Ko | |
| 4 | 5 | Ko | |
| 5 | 2 | ly | |
| 6 | 2 | Ko | |
| 7 | 6 | F | Focus poor |
| 8 | 4 | ly5 | |
| 9 | 10 | A | |
| 10 | 2 | Int | |
| 11 | 3 | ly5 | |
| 12 | 3 | ly | |
| 13 | 3 | ly5 | |
| 14 | 3 | Ko | |
| 15 | 4 | ly5 | |
| 16 | 5 | ly5 | |
| 17 | 4 | Ko | |
| 18 | 3 | F5 | |
| 19 | 2 | F | |
| 20 | 8 | Ko | |
| 21 | 2 | ly5 | |
| 22 | 5 | F5 | ∴ |
| 23 | 2 | ly | |
| 24 | 3 | A | |
| 25 | 2 | K | |
| 26 | 3 | F8 | |
| 27 | 3 | K | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | -26° | 688 | 1 | 48.7 | -26 | 57.8 | 8.1 |
| 2 | -27° | 665 | 1 | 49.9 | -27 | 6.3 | 8.7 |
| 3 | -26° | 705 | 1 | 51.6 | -26 | 49.5 | 8.5 |
| 4 | -27° | ~~705~~ 675 | 1 | 51.5 | -27 | 15.1 | 7.8 |
| 5 | -27° | 673 | 1 | 51.4 | -27 | 25.4 | 9.1 |
| 6 | -27° | 681 | 1 | 52.2 | -27 | 40.3 | 8.7 |
| 7 | -27° | 683 | 1 | 52.3 | -27 | 32.9 | 8.4 |
| 8 | -27° | 684 | 1 | 53.2 | -27 | 6.6 | 8.5 |
| 9 | -27° | 688 | 1 | 53.6 | -27 | 2.3 | 6.6 |
| 10 | -27° | 682 | 1 | 52.2 | -27 | 5.0 | 9.0 |
| 11 | -27° | 692 | 1 | 54.0 | -27 | 33.4 | 8.8 |
| 12 | -27° | 693 | 1 | 54.1 | -27 | 38.9 | 9.0 |
| 13 | -27° | 686 | 1 | 53.3 | -27 | 51.9 | 8.5 |
| 14 | -28° | 624 | 1 | 53.8 | -28 | 7.8 | 8.2 |
| 15 | -28° | 626 | 1 | 54.1 | -28 | 5.3 | 8.6 |
| 16 | -28° | 634 | 1 | 55.4 | -28 | 12.3 | 8.2 |
| 17 | -28° | 643 | 1 | 56.7 | -28 | 57.1 | 8.0 |
| 18 | -28° | 646 | 1 | 57.2 | -28 | 39.3 | 9.1 |
| 19 | -28° | 647 | 1 | 57.2 | -28 | 2.0 | 9.0 |
| 20 | -27° | 713 | 1 | 56.9 | -27 | 20.9 | 7.6 |
| 21 | -27° | 717 | 1 | 57.6 | -27 | 24.4 | 8.8 |
| 22 | -26° | 720 | 1 | 54.7 | -26 | 50.2 | 8.6 |
| 23 | -27° | 698 | 1 | 54.9 | -27 | 9.7 | 8.8 |
| 24 | -27° | 700 | 1 | 55.2 | -27 | 0.8 | 9.0 |
| 25 | -27° | 705 | 1 | 56.0 | -27 | 5.6 | 8.9 |
| 26 | -27° | 722 | 1 | 58.9 | -27 | 12.8 | 8.6 |
| 27 | -27° | 729 | 2 | 1.0 | -27 | 25.6 | 9.0 |

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B4107 short disp.

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 4 | $Iy^5$ | |
| 29 | 6 | A | |
| 30 | 2 | Iy | |
| 31 | 3 | $Iy^0$ | |
| 32 | 5 | $I^0$ | |
| 33 | 3 | $I^8$ | |
| 34 | 3 | $Iy^5$ | |
| 35 | 2 | $Iy^5$ | |
| 36 | 3 | $Iy^0$ | |
| 37 | 6 | $Iy^5$ | |
| 38 | 3 | $Iy^0$ | |
| Time 23.32 | 39 | 3 | A |
| " 0.00 | 40 | 6 | $Iy^0$ |
| | 41 | 4 | $Iy^0$ |
| | 42 | 8 | $Iy^5$ |
| | 43 | 5 | $Iy^0$ |
| | 44 | 1 | $I^2$ |
| | 45 | 2 | I |
| | 46 | 3 | Iy |
| | 47 | 8 | $Iy^5$ |
| | 48 | 4 | $Iy^0$ |
| | 49 | 4 | $I^0$ |
| | 50 | 10 | $Iy^0$ |
| | 51 | 5 | $K^0$ |
| | 52 | 2 | Iy |
| | 53 | 4 | $I^0$ |
| | 54 | 2 | $Iy^5$ |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -26° | 759 | 2 | 1.4 | -26 | 39.8 | 8.3 | ✓ |
| 29 | -26° | 767 | 2 | 3.0 | -26 | 19.5 | 8.5 | ✓ |
| 30 | -26° | 762 | 2 | 1.8 | -26 | 53.2 | 9.4 | ✓ |
| 31 | -26° | 766 | 2 | 2.9 | -26 | 53.8 | 9.0 | ✓ |
| 32 | -26° | 773 | 2 | 3.7 | -26 | 52.5 | 8.6 | ✓ |
| 33 | -27° | 739 | 2 | 2.6 | -27 | 37.4 | 9.0 | ✓ |
| 34 | -28° | 681 | 2 | 3.3 | -28 | 0.3 | 9.0 | ✓ |
| 35 | -28° | 683 | 2 | 3.6 | -28 | 9.8 | 8.8 | ✓ |
| 36 | -27° | 744 | 2 | 4.1 | -27 | 41.4 | 9.0 | ✓ |
| 37 | -27° | 752 | 2 | 5.4 | -27 | 48.7 | 8.2 | ✓ |
| 38 | -27° | 745 | 2 | 4.4 | -27 | 17.0 | 8.7 | ✓ |
| 39 | -27° | 746 | 2 | 4.6 | -27 | 18.0 | 9.3 | ✓ |
| 40 | -26° | 782 | 2 | 5.3 | -26 | 2.9 | 8.3 | ✓ |
| 41 | -26° | 791 | 2 | 6.3 | -26 | 53.8 | 8.5 | ✓ |
| 42 | -26° | 795 | 2 | 6.9 | -26 | 54.8 | 7.6 | ✓ |
| 43 | -27° | 760 | 2 | 6.7 | -27 | 13.9 | 8.4 | ✓ |
| 44 | -26° | 787 | 2 | 5.9 | -26 | 58.7 | 8.9 | ✓ |
| 45 | -28° | 705 | 2 | 7.6 | -28 | 28.9 | 9.2 | ✓ |
| 46 | -28° | 717 | 2 | 9.6 | -28 | 1.6 | 8.7 | ✓ |
| 47 | -27° | 780 | 2 | 10.0 | -27 | 6.5 | 7.6 | ✓ |
| 48 | -26° | 814 | 2 | 9.7 | -26 | 29.3 | 8.5 | ✓ |
| 49 | -26° | 816 | 2 | 10.4 | -26 | 6.3 | 8.6 | ✓ |
| 50 | -26° | 828 | 2 | 13.4 | -26 | 31.8 | 6.5 | ✓ |
| 51 | -27° | 802 | 2 | 13.2 | -27 | 1.2 | 7.5 | ✓ |
| 52 | -27° | 809 | 2 | 14.5 | -27 | 47.0 | 9.3 | ✓ |
| 53 | -27° | 811 | 2 | 14.8 | -27 | 51.2 | 7.9 | ✓ |
| 54 | -28° | 735 | 2 | 13.8 | -28 | 9.3 | 9.1 | ✓ |

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May 15, 1912

B4107 short disp.

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 2 | ly5 | |
| 56 | 3 | ly0 | |
| 57 | 2 | J0 | |
| 58 | 10 | ly5 | |
| 59 | 2 | J2r | |
| 60 | 2 | J5 | |
| 61 | 5 | ly0 | |
| 62 | 2 | ly5 | |
| 63 | 4 | J8 | |
| 64 | 6 | a | |
| 65 | 7 | J5 | |
| 66 | 3 | J | |
| 67 | 8 | J5 | |
| 68 | 2 | ly5 | |
| 69 | 4 | ly0 | |
| 70 | 2 | J0 | |
| 71 | 3 | a | |
| 72 | 3 | ly | |
| 73 | 4 | ly5 | |
| 74 | 5 | Ma | |
| 75 | 5 | ly5 | |
| 76 | 10 | ly5 | |
| 77 | 6 | J5 | |
| 78 | 10 | J0 | |
| 79 | 3 | J5 | |
| 80 | 3 | ly5 | |
| 81 | 7 | ly5 | |

Time: 0.10

Lost Bk 129, p. 170



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | -28° | 739 | 2 | 14.1 | -28 | 19.5 | 8.9 | ✓ |
| 56 | -28° | 746 | 2 | 14.9 | -28 | 17.3 | 9.0 | ✓ |
| 57 | -28° | 747 | 2 | 15.3 | -28 | 8.8 8.6 | 9.5 | ✓ |
| 58 | -28° | 752 | 2 | 16.5 | -28 | 26.2 | 7.1 | ✓ |
| 59 | -29° | 837 | 2 | 15.0 | -29 | 25.5 | 8.6 | ✓ |
| 60 | -29° | 840 | 2 | 15.6 | -29 | 19.0 | 9.1 | ✓ |
| 61 | -29° | 855 | 2 | 17.7 | -29 | 37.0 | 8.2 | ✓ |
| 62 | -29° | 857 | 2 | 17.8 | -29 | 48.4 | 9.2 | ✓ |
| 63 | -29° | 858 | 2 | 18.2 | -29 | 48.8 | 8.6 | ✓ |
| 64 | -29° | 859 | 2 | 18.5 | -29 | 59.6 | 8.9 | ✓ |
| 65 | -30° | 862 | 2 | 19.3 | -30 | 26.1 | 7.8 | ✓ |
| 66 | -29° | 865 | 2 | 19.3 | -29 | 27.0 | 8.8 | ✓ |
| 67 | -29° | 864 | 2 | 19.2 | -29 | 12.6 | 7.8 | ✓ |
| 68 | -29° | 870 | 2 | 20.0 | -29 | 33.0 | 8.9 | ✓ |
| 69 | -29° | 880 | 2 | 20.8 | -29 | 42.1 | 8.3 | ✓ |
| 70 | -30° | 864 | 2 | 19.9 | -30 | 6.2 | 8.5 | ✓ |
| 71 | -29° | 884 | 2 | 21.4 | -29 | 59.0 | 9.4 | ✓ |
| 72 | -29° | 883 | 2 | 21.2 | -29 | 39.1 | 9.1 | ✓ |
| 73 | -30° | 885 | 2 | 22.4 | -30 | 16.5 | 8.5 | ✓ |
| 74 | -31° | 984 | 2 | 22.6 | -31 | 0.7 | 7.0 | ✓ |
| 75 | -29° | 889 | 2 | 22.4 | -29 | 21.0 | 8.1 | ✓ |
| 76 | -27° | 827 | 2 | 17.8 | -27 | 33.9 | 6.8 | ✓ |
| 77 | -27° | 839 | 2 | 20.2 | -27 | 42.6 | 8.0 | ✓ |
| 78 | -26° | 857 | 2 | 18.7 | -26 | 24.6 | 6.6 | ✓ |
| 79 | -26° | 863 | 2 | 19.8 | -26 | 27.6 | 8.5 | ✓ |
| 80 | -27° | 852 | 2 | 21.6 | -27 | 22.9 | 8.7 | ✓ |
| 81 | -26° | 882 | 2 | 22.7 | -26 | 59.9 | 7.4 | ✓ |

Identified by J. C. M. Sept. 21, 1912. M. C. W. Checked by AMC. Oct. 1912

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Shrucka May 16, 1912

Lens 1.5

B20557 Short disp.

| No. | dist | class | Remark |
|---|---|---|---|
| 1 | 4 | K2 | |
| 2 | 4 | F | E |
| 3 | 5 | A | E |
| 4 | 4 | F | E |
| 5 | 9 | A0 | E |
| 6 | 3 | K2 | |
| 7 | 4 | F | |
| 8 | 9 | K2 | |
| 9 | 3 | K2 | |
| 10 | 2 | K2 | |
| 11 | 8 | F0 | |
| 12 | 3 | B9 | |
| 13 | 3 | A0 | |
| 14 | 2 | K2 | |
| 15 | 3 | K0 | |
| 16 | 2 | G0 | |
| 17 | 2 | K2 | |
| 18 | 1 | K | |
| 19 | 5 | A3 | |
| 20 | 3 | F8 | |
| 21 | 10+ | A | Burned out. Maybe B8 |
| 22 | 1 | K | |
| 23 | 4 | G0 | |
| 24 | 5 | K0 | |
| 25 | 9 | F8 | |
| 26 | 6 | F2 | |
| 27 | 6 | G0 | |

Circle described by S.B.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | -79° | 152 | 4 | 45.1 | -79 | 41.7 | 8.2 |
| 2 | -79° | 155 | 4 | 50.8 | -79 | 20.7 | 8.3 |
| 3 | -78° | 152 | 4 | 50.2 | -78 | 14.3 | 7.8 |
| 4 | -78° | 159 | 4 | 59.7 | -78 | 20.2 | 8.2 |
| 5 | -78° | 160 | 4 | 59.8 | -78 | 35.5 | 7.4 |
| 6 | -78° | 161 | 5 | 7.4 | -78 | 48.7 | 8.6 |
| 7 | -78° | 163 | 5 | 5.1 | -78 | 21.7 | 7.9 |
| 8 | -78° | 165 | 5 | 7.0 | -78 | 28.2 | 7.6 |
| 9 | -78° | 166 | 5 | 8.3 | -78 | 21.0 | 8.3 |
| 10 | -79° | 159 | 4 | 57.2 | -79 | 33.4 | 9.0 |
| 11 | -80° | 132 | 4 | 56.2 | -80 | 0.6 | 7.5 |
| 12 | -79° | 168 | 5 | 12.4 | -79 | 51.8 | 8.5 |
| 13 | -79° | 169 | 5 | 16.6 | -79 | 55.2 | 9.3 |
| 14 | -79° | 172 | 5 | 18.6 | -79 | 57.6 | 9.5 |
| 15 | -78° | 170 | 5 | 15.5 | -78 | 54.9 | 9.2 |
| 16 | -79° | 173 | 5 | 20.0 | -79 | 7.2 | 9.2 |
| 17 | -79° | 174 | 5 | 20.3 | -79 | 12.1 | 9.4 |
| 18 | -78° | 176 | 5 | 24.6 | -78 | 55.3 | 9.4 |
| 19 | -78° | 186 | 6 | 31.6 | -78 | 26.5 | 8.4 |
| 20 | -79° | 186 | 5 | 39.2 | -79 | 5.2 | 8.6 |
| 21 | -78° | 195 | 6 | 43.3 | -78 | 53.1 | 6.2 |
| 22 | -79° | 178 | 5 | 29.3 | -79 | 47.2 | 9.4 |
| 23 | -79° | 184 | 5 | 34.8 | -79 | 51.3 | 8.6 |
| 24 | -80° | 146 | 5 | 21.1 | -80 | 19.3 | 9.0 |
| 25 | -80° | 145 | 5 | 20.2 | -80 | 32.7 | 7.9 |
| 26 | -80° | 131 | 4 | 55.4 | -80 | 57.0 | 7.7 |
| 27 | -80° | 133 | 4 | 58.3 | -80 | 58.8 | 8.1 |

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May 16, 1912 (Cont.)
B20557 Utah

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 28 | 2 | A5 | |
| 29 | 2 | K0 | |
| 30 | 3 | K0 | |
| 31 | 2 | G0 | |
| 32 | 6 | G5 | |
| 33 | 10 | A2 | |
| 34 | 1 | K3 | |
| 35 | 5 | K0 | |
| 36 | 10 | G0 | |
| 37 | 8.4 | F5 | |
| 38 | 3 | A2 | |
| 39 | 7 | A2 | |
| 40 | 2 | G5 | |
| 41 | 4 | F5 | |
| 42 | 5 | A5 | |
| 43 | 1 | K5 | |
| 44 | 10+ | A | |
| 45 | 4 | K | Uncertain. Too much superposed on 44 |
| 46 | 4 | K2 | |
| 47 | 1 | K5 | Difficult. Confirm. |
| 48 | 1 | K5 | |
| 49 | 1 | K | |
| 50 | 3 | G5 | |
| 51 | 1 | F | Difficult |
| 52 | 5 | G0 | |
| 53 | 7 | B9 | |
| 54 | 6 | A0 | |

Cards declared by [illegible]



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | −80° | 139 | 5 | 5.4 | −80 | 44.0 | 8.9 | ∧ ∫ |
| 29 | −80° | 142 | 5 | 12.8 | −80 | 58.1 | 9.0 | ∧ ∫ |
| 30 | −81° | 132 | 5 | 22.6 | −81 | 12.4 | 9.4 | ∧ ∨ |
| 31 | −81° | 136 | 5 | 27.1 | −81 | 11.4 | 9.5 | ∧ ∫ |
| 32 | −81° | 141 | 5 | 29.1 | −81 | 4.6 | 8.6 | ∧ ∫ |
| 33 | −81° | 142 | 5 | 33.3 | −81 | 8.3 | 7.3 | ∧ ∫ |
| 34 | −80° | 154 | 5 | 36.7 | −80 | 55.7 | 9.4 | ∧ ∧ |
| 35 | −80° | 159 | 5 | 45.9 | −80 | 54.6 | 8.8 | ∧ ∫ |
| 36 | −80° | 161 | 5 | 47.2 | −80 | 33.6 | 6.5 | ∧ ∫ |
| 37 | −80° | 160 | 5 | 46.0 | −80 | 25.1 | 8.9 | ∧ ∨ |
| 38 | −80° | 158 | 5 | 43.7 | −80 | 17.8 | 9.0 | ∧ ∫ |
| 39 | −79° | 193 | 5 | 45.6 | −79 | 58.3 | 8.0 | ∧ ∫ |
| 40 | −79° | 190 | 5 | 43.3 | −79 | 53.5 | 9.2 | ∧ ∫ |
| 41 | −79° | 196 | 5 | 51.8 | −79 | 34.4 | 8.8 | ∧ ∨ |
| 42 | −80° | 164 | 5 | 55.4 | −80 | 20.6 | 8.3 | ∧ ∨ |
| 43 | −80° | 165 | 5 | 59.1 | −80 | 9.2 | 9.4 | ∧ ∫ |
| 44 | −79° | 202 | 5 | 58.7 | −79 | 22.9 | 5.6 | ∧ ∫ |
| 45 | −79° | 203 | 5 | 59.0 | −79 | 19.0 | 9.2 | ∧ ∫ |
| 46 | −78° | 207 | 5 | 59.5 | −78 | 36.1 | 8.6 | ∧ ∨ |
| 47 | −78° | 218 | 6 | 12.0 | −78 | 37.1 | 9.4 | ∧ ∫ |
| 48 | −79° | 208 | 6 | 8.8 | −79 | 12.4 | 9.5 | ∧ ∫ |
| 49 | −79° | 205 | 6 | 4.6 | −79 | 31.4 | 9.6 | ∧ ∫ |
| 50 | −80° | 168 | 6 | 5.6 | −80 | 6.5 | 9.0 | ∧ ∨ |
| 51 | −79° | 207 | 6 | 7.9 | −79 | 44.2 | 9.2 | ∧ ∨ |
| 52 | −79° | 210 | 6 | 10.4 | −79 | 51.3 | 8.4 | ∧ ∨ |
| 53 | −79° | 211 | 6 | 12.4 | −79 | 30.7 | 9.5 | ∧ ∫ |
| 54 | −79° | 214 | 6 | 17.1 | −79 | 41.2 | 8.6 | ∧ ∨ |

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May 16, 1912 (Cont.)
B20557 Short.

| No. | Dist. | Class | Remark |
|---|---|---|---|
| 55 | 1 | K | |
| 56 | 7 | Ko | |
| 57 | 9 | F | |
| 58 | 1 | G5 | |
| 59 | 4 | G5 | E. |
| 60 | 2 | K5 | |
| 61 | 4 | F0 | |
| 62 | 7 | A2n | |
| 63 | 2n | F5 | |
| 64 | 3 | Bq | |
| 65 | 5 | A0 | |
| 66 | 10+ | A2n | |
| 67 | 3 | F5 | |
| 68 | 3 | Ko | |
| 69 | 4 | F2n | |
| 70 | 5 | K5 | |
| 71 | 2n | K5 | |
| 72 | 3 | K5 | |
| 73 | 3 | F5 | |
| 74 | 5 | A0 | |
| 75 | 5 | A | E. |
| 76 | 4 | G5 | |
| 77 | 1 | G | |
| 78 | 1 | F5 | |
| 79 | 2n | A0 | |
| 80 | 2n | F5 | |
| 81 | 3 | Ko | |

Carnegie Yearbook 1912 p. 219



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | -79° | 215 | 6 | 18.4 | -79 | 10.0 | 9.4 | ^v |
| 56 | -78° | 227 | 6 | 28.8 | -78 | 59.5 | 7.8 | ^v |
| 57 | -78° | 232 | 6 | 36.2 | -78 | 48.5 | 7.9 | ^v |
| 58 | -78° | 228 | 6 | 29.4 | -78 | 38.6 | 9.2n | ^ |
| 59 | -78° | 226 | 6 | 28.1 | -78 | 20.2n | 8.2n | ^v |
| 60 | -79° | 219 | 6 | 33.2 | -79 | 37.8 | 9.0 | ^v |
| 61 | -80° | 185 | 6 | 39.0 | -80 | 26.1 | 8.8 | ^v |
| 62 | -80° | 186 | 6 | 39.8 | -80 | 29.3 | 8.6 | ^v |
| 63 | -80° | 187 | 6 | 40.9 | -80 | 44.1 | 8.9 | ^v |
| 64 | -80° | 189 | 6 | 43.2 | -80 | 20.0 | 8.9 | ^v |
| 65 | -79° | 229 | 6 | 50.5 | -79 | 59.2n | 8.7 | ^v |
| 66 | -80° | 196 | 6 | 50.4 | -80 | 40.8 | 6.0 | ^v |
| 67 | -80° | 192 | 6 | 47.7 | -80 | 54.0 | 8.8 | ^v |
| 68 | -81° | 194 | 6 | 49.0 | -81 | 33.0 | 8.9 | ^ |
| 69 | -81° | 196 | 6 | 50.3 | -81 | 19.7 | 8.9 | ^ |
| 70 | -80° | 201 | 6 | 58.3 | -80 | 54.5 | 8.7 | ^v |
| 71 | -80° | 207 | 7 | 5.3 | -80 | 55.1 | 9.2n | ^v |
| 72 | -80° | 209 | 7 | 5.8 | -80 | 39.4 | 8.6 | ^v |
| 73 | -80° | 212 | 7 | 15.4 | -80 | 57.5 | 8.5 | ^v |
| 74 | -81° | 214 | 7 | 15.8 | -81 | 17.4 | 8.2n | ^v |
| 75 | -80° | 220 | 7 | 26.3 | -80 | 59.1 | 8.2n | ^v |
| 76 | -82° | 160 | 6 | 59.6 | -82 | 1.5 | 8.4 | ^v |
| 77 | -81° | 200 | 6 | 59.9 | -81 | 56.0 | 9.1 | ^v |
| 78 | -81° | 207 | 7 | 6.5 | -81 | 55.5 | 9.0 | ^ |
| 79 | -81° | 213 | 7 | 11.4 | -81 | 34.5 | 8.9 | ^v |
| 80 | -81° | 215 | 7 | 16.6 | -81 | 54.1 | 9.0 | ^v |
| 81 | -80° | 124 | 4 | 40.9 | -80 | 32.3 | 8.5 | ^v |

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May 16, 1912 (cont.)

B 20557

| No. | Int | Class | Remark |
|---|---|---|---|
| 82 | 3 | F0 | |
| 83 | 1 | F5 | |
| 84 | 5 | K2 | |
| 85 | 10+ | G? | Burned out. |
| 86 | 6 | A | e |
| 87 | 5 | K0 | |
| 88 | 3 | G0 | |
| 89 | 4 | A | e |
| 90 | 6 | F | e |
| 91 | 1 | G | |
| 92 | 10 | A | |
| 93 | 2 | K0 | |
| 94 | 4 | K2 | |
| 95 | 3 | K0 | |
| 96 | 2 | G | |
| 97 | 2 | K0 | |
| 98 | 3 | G5 | |
| 99 | 2 | G | |
| 100 | 4 | K0 | |
| 101 | 10 | G0 | |
| 102 | 8 | G5 | |
| 103 | 3 | F0 | |
| 104 | 4 | F5 | |
| 105 | 4 | F0 | |
| 106 | 3 | F5 | |
| 107 | 6 | G0 | |
| 108 | 10 | F5 | |

circle checked by E. B. H.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | -80° | 126 | 4 | 49.3 | -80 | 59.3 | 8.6 | ^V |
| 83 | -81° | 124 | 4 | 50.5 | -81 | 2.4 | 9.4 | ^V |
| 84 | -81° | 122 | 4 | 42.0 | -81 | 30.8 | 8.8 | ^V |
| 85 | -81° | 115 | 4 | 32.1 | -81 | 51.6 | 6.3 | ^V |
| 86 | -81° | 116 | 4 | 35.9 | -81 | 50.7 | 8.2 | ^V |
| 87 | -82° | 89 | 4 | 33.5 | -82 | 3.1 | 8.4 | ^V |
| 88 | -82° | 85 | 4 | 23.0 | -82 | 53.8 | 8.7 | ^V |
| 89 | -83° | 85 | 4 | 24.5 | -83 | 24.8 | 8.2 | ^V |
| 90 | -83° | 90 | 4 | 31.5 | -83 | 16.8 | 8.0 | ^V |
| 91 | -83° | 89 | 4 | 31.2 | -83 | 4.1 | 9.0 | ^V |
| 92 | -83° | 91 | 4 | 37.5 | -83 | 10.0 | 6.6 | ^V |
| 93 | -82° | 95 | 4 | 50.4 | -82 | 49.1 | 9.2 | ^V |
| 94 | -82° | 99 | 4 | 57.4 | -82 | 43.8 | 8.6 | ^V |
| 95 | -81° | 125 | 4 | 54.6 | -81 | 42.9 | 8.6 | ^V |
| 96 | -81° | 126 | 4.5 | 0.6 | -81 | 18.8 | 9.2 | ^V |
| 97 | -82° | 100 | 5 | 0.2 | -82 | 7.3 | 9.0 | ^V |
| 98 | -81° | 127 | 5 | 8.2 | -81 | 53.8 | 9.0 | ^V |
| 99 | -82° | 102 | 5 | 3.7 | -82 | 13.3 | 9.1 | ^V |
| 100 | -82° | 104 | 5 | 6.4 | -82 | 39.8 | 8.6 | ^V |
| 101 | -82° | 106 | 5 | 13.2 | -82 | 38.1 | 6.7 | ^V |
| 102 | -81° | 134 | 5 | 24.5 | -81 | 40.2 | 7.8 | ^V |
| 103 | -82° | 116 | 5 | 24.7 | -82 | 24.9 | 8.8 | ^V |
| 104 | -82° | 119 | 5 | 26.8 | -82 | 29.5 | 8.8 | ^V |
| 105 | -82° | 110 | 5 | 20.1 | -82 | 42.3 | 8.8 | ^V |
| 106 | -82° | 113 | 5 | 23.8 | -82 | 50.4 | 8.9 | ^V |
| 107 | -83° | 106 | 5 | 28.5 | -83 | 17.3 | 8.6 | ^V |
| 108 | -83° | 105 | 5 | 26.6 | -83 | 59.7 | 7.1 | ^V |

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May 16, 1921 (Cont.)

B20557 Shot.

| No. | Mt. | Class | Remark |
|---|---|---|---|
| 109 | 7 | B8 | |
| 110 | 8 | Q3 | |
| 111 | 9 | F5 | |
| 112 | 1 | K | |
| 113 | 2 | K0 | |
| 114 | 2 | A5 | |
| 115 | 4 | F2 | |
| 116 | 2 | G5 | |
| 117 | 1 | F5 | Difficult |
| 118 | 9 | F0 | |
| 119 | 3 | K2 | |
| 120 | 3 | F5 | |
| 121 | 4 | F8 | |
| 122 | 5 | F2 | |
| 123 | 3 | K2 | |
| 124 | 2 | G0 | |
| 125 | 8 | A2 | |
| 126 | 8 | A0 | |
| 127 | 10 | F0 | |
| 128 | 10 | B8 | |
| 129 | 2 | G5 | |
| 130 | 5 | A3 | |
| 131 | 2 | A0 | |
| 132 | 1 | K5 | |
| 133 | 7 | A2 | |
| 134 | 3 | A3 | |
| 135 | 3 | K0 | |

covers included 14 & 15 Mt.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 109 | -84° | 66 | 5 | 31.4 | -84 | 24.0 | 8.1 |
| 110 | -81° | 148 | 5 | 39.2 | -81 | 40.2 | 8.1 |
| 111 | -81° | 152 | 5 | 48.2 | -81 | 40.1 | 7.4 |
| 112 | -81° | 153 | 5 | 49.3 | -81 | 52.5 | 9.3 |
| 113 | -81° | 154 | 5 | 54.6 | -81 | 9.6 | 9.0 |
| 114 | -81° | 158 | 5 | 59.6 | -81 | 23.9 | 9.3 |
| 115 | -81° | 166 | 6 | 7.7 | -81 | 33.7 | 9.0 |
| 116 | -81° | 171 | 6 | 12.0 | -81 | 6.1 | 9.0 |
| 117 | -81° | 173 | 6 | 13.9 | -81 | 7.8 | 9.1 |
| 118 | -81° | 175 | 6 | 18.3 | -81 | 1.6 | 7.3 |
| 119 | -81° | 177 | 6 | 19.9 | -81 | 0.5 | 9.1 |
| 120 | -80° | 170 | 6 | 10.7 | -80 | 34.9 | 8.9 |
| 121 | -80° | 174 | 6 | 22.9 | -80 | 15.3 | 8.5 |
| 122 | -80° | 176 | 6 | 25.6 | -80 | 40.6 | 8.6 |
| 123 | -80° | 177 | 6 | 25.9 | -80 | 57.1 | 9.1 |
| 124 | -81° | 180 | 6 | 25.5 | -81 | 22.4 | 9.0 |
| 125 | -81° | 178 | 6 | 24.3 | -81 | 29.5 | 7.7 |
| 126 | -81° | 176 | 6 | 18.7 | -81 | 57.2 | 8.0 |
| 127 | -82° | 143 | 6 | 21.5 | -82 | 0.0 | 7.2 |
| 128 | -82° | 144 | 6 | 22.7 | -82 | 6.6 | 6.7 |
| 129 | -81° | 186 | 6 | 28.7 | -81 | 33.9 | 8.9 |
| 130 | -82° | 146 | 6 | 32.2 | -82 | 8.2 | 8.3 |
| 131 | -81° | 187 | 6 | 32.8 | -81 | 2.3 | 8.9 |
| 132 | -81° | 192 | 6 | 41.2 | -81 | 5.1 | 9.2 |
| 133 | -82° | 148 | 6 | 34.3 | -82 | 53.5 | 7.7 |
| 134 | -83° | 124 | 6 | 35.3 | -83 | 2.2 | 9.0 |
| 135 | -83° | 125 | 6 | 39.8 | -83 | 6.8 | 8.6 |

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May 16, 1912 (cont.)

B 20557 Hart.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 5 | A0 | |
| 137 | 2i | F0 | |
| 138 | 9 | F0 | |
| 139 | 9 | F5 | Poor focus. |
| 140 | 4 | A5 | |
| 141 | 8 | K0 | |
| 142 | 3 | G5 | |
| 143 | 2 | A2 | |
| 144 | 3 | K5 | |
| 145 | 16 | A | |
| 146 | 3 | F8 | |
| 147 | 2 | K2 | |
| 148 | 5 | G0 | |
| 149 | 2i | G0 | |
| 150 | 8 | A2i | |
| 151 | 2i | A5 | |
| 152 | 3 | G5 | |
| 153 | 2i | G | |
| 154 | 3 | F5 | |
| 155 | 6 | A0 | |
| 156 | 2i | A5 | |
| 157 | 3 | K0 | |
| 158 | 7 | K0 | |
| 159 | 8 | F2 | |
| 160 | 3 | F5 | |
| 161 | 4 | G5 | |
| 162i | 1 | K | |

Cards finished 8:4 H.

MF



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 136 | -83° | 129 | 6 | 52.4 | -83 | 13.4 | 8.1 |
| 137 | -82° | 154 | 6 | 54.0 | -82 | 56.2 | 9.0 |
| 138 | -82° | 161 | 7 | 0.3 | -82 | 44.2 | 8.2 |
| 139 | -83° | 142 | 7 | 5.2 | -83 | 49.6 | 7.9 |
| 140 | -83° | 149 | 7 | 11.9 | -83 | 56.3 | 8.9 |
| 141 | -83° | 151 | 7 | 17.3 | -83 | 33.1 | 8.4 |
| 142 | -83° | 155 | 7 | 20.0 | -83 | 41.6 | 9.0 |
| 143 | -83° | 157 | 7 | 21.3 | -83 | 39.7 | 9.1 |
| 144 | -83° | 165 | 7 | 30.9 | -83 | 40.7 | 9.1 |
| 145 | -84° | 132 | 7 | 31.6 | -84 | 13.5 | 7.2 |
| 146 | -83° | 111 | 5 | 49.6 | -83 | 55.9 | 8.7 |
| 147 | -83° | 112 | 5 | 52.6 | -83 | 18.5 | 8.9 |
| 148 | -83° | 114 | 5 | 54.4 | -83 | 20.0 | 8.3 |
| 149 | -82° | 133 | 5 | 57.4 | -82 | 41.3 | 9.0 |
| 150 | -82° | 136 | 6 | 1.4 | -82 | 26.7 | 7.3 |
| 151 | -82° | 132 | 5 | 57.6 | -82 | 10.0 | 9.0 |
| 152 | -81° | 165 | 6 | 6.8 | -81 | 57.0 | 9.2 |
| 153 | -82° | 138 | 6 | 7.3 | -82 | 51.4 | 9.1 |
| 154 | -82° | 140 | 6 | 15.2 | -82 | 47.5 | 9.0 |
| 155 | -82° | 142 | 6 | 20.2 | -82 | 33.1 | 7.8 |
| 156 | -83° | 116 | 6 | 14.0 | -83 | 12.1 | 9.1 |
| 157 | -83° | 118 | 6 | 22.8 | -83 | 32.5 | 8.9 |
| 158 | -83° | 120 | 6 | 26.9 | -83 | 42.6 | 8.0 |
| 159 | -83° | 121 | 6 | 27.8 | -83 | 28.0 | 8.1 |
| 160 | -83° | 126 | 6 | 41.0 | -83 | 41.9 | 9.0 |
| 161 | -83° | 128 | 6 | 43.8 | -83 | 43.9 | 8.6 |
| 162 | -83° | 131 | 6 | 54.3 | -83 | 51.5 | 9.8 |

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May 16, 1912 (cont.)

B 20557 Short.

| No. | Int. | Class | Remark |
|---|---|---|---|
| .163 | 3 | K2 | |
| .164 | 4 | Ma | |
| .165 | 4 | K0 | |
| .166 | 2 | K5 | |
| .167 | 10+ | A | Burned out. |
| .168 | 3 | K2 | |
| .169 | 6 | F | |
| .170 | 4 | G5 | |
| .171 | 7 | G5 | |
| .172 | 3 | K0 | |
| .173 | 3 | A2 | |
| .174 | 2 | F | |
| .175 | 5 | A0 | |
| .176 | 1 | K | |
| 177 | 5 | F0 | |
| .178 | 2 | F0 | |
| .179 | 4 | F0 | |
| Time 2:27 | 180 | 2 | G5 |

carbon lamp 9 Amp. 115 V.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 163 | − 84° | 98 | 6 | 57.2 | − 84 | 5.8 | 9.5 ∧ ∨ |
| 164 | − 84° | 93 | 6 | 48.0 | − 84 | 34.2 | 8.6 ∧ ∨ |
| 165 | − 84° | 90 | 6 | 36.3 | − 84 | 57.6 | 8.5 ∧ ∨ |
| 166 | − 84° | 87 | 6 | 20.8 | − 84 | 11.9 | 9.3 ∧ ∨ |
| 167 | − 84° | 75 | 5 | 54.5 | − 84 | 50.5 | 6.0 ∧ ∨ |
| 168 | − 84° | 82 | 6 | 2.0 | − 84 | 36.3 | 8.7 ∧ ∨ |
| 169 | − 84° | 85 | 6 | 7.8 | − 84 | 55.0 | 7.8 ∧ ∨ |
| 170 | − 83° | 87 | 4 | 28.6 | − 83 | 53.9 | 8.2 ∧ ∨ |
| 171 | − 83° | 94 | 4 | 54.0 | − 83 | 43.3 | 8.3 ∧ ∨ |
| 172 | − 83° | 96 | 4 | 58.4 | − 83 | 24.9 | 8.9 ∧ ∨ |
| 173 | − 83° | 95 | 4 | 58.2 | − 83 | 18.3 | 8.9 ∧ ∨ |
| 174 | − 83° | 93 | 4 | 53.8 | − 83 | 6.5 | 9.1 ∧ ∨ |
| 175 | − 83° | 99 | 5 | 6.8 | − 83 | 13.8 | 8.7 ∧ ∨ |
| 176 | − 83° | 100 | 5 | 8.2 | − 83 | 7.6 | 9.2 ∧ ∨ |
| 177 | − 83° | 101 | 5 | 9.5 | − 83 | 11.1 | 8.7 ∧ ∨ |
| 178 | − 83° | 102 | 5 | 13.7 | − 83 | 7.8 | 9.0 ∧ ∨ |
| 179 | − 84° | 60 | 5 | 13.0 | − 84 | 2.2 | 8.6 ∧ ∨ |
| 180 | − 84° | 63 | 5 | 19.1 | − 84 | 10.5 | 9.1 ∧ ∨ |

Identified by ANC. June 18, 1912

Checked July 5 1912 LOW.

carbon arc

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

Friday, May 16, 1902

Time: 22.00

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 4 | K0 | E. |
| 2 | 3 | 7 | E. |
| 3 | 3 | ly5 | E. |
| 4 | 3 | 7 | E. |
| 5 | 4 | ly | E. |
| 6 | 10 | A | E. |
| 7 | 5 | 70 | |
| 8 | 3 | ly5 | |
| 9 | 2 | 78 | |
| 10 | 5 | A3 | |
| 11 | 2 | 35 | |
| 12 | 4 | ly5 | |
| 13 | 2 | A5 | E. |
| 14 | 2 | 78 | E. |
| 15 | 8 | K0 | E. |
| 16 | 4 | 72 | |
| 17 | 3 | Mb | |
| 18 | 2 | K2 | |
| 19 | 4 | 78 | |
| 20 | 4 | ly0 | |
| 21 | 3 | ly5 | |
| 22 | 2 | 75 | |
| 23 | 3 | 32 | |
| 24 | 6 | 78 | |
| 25 | 2 | ly0 | |
| 26 | 2 | ly | |
| 27 | 8 | 70 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | +58° | 1325 | 11 | 24.5 | +58 | 59.9 | 8.6 | ✓ |
| 2 | +59° | 1393 | 11 | 29.8 | +59 | 35.6 | 8.9 | ✓ |
| 3 | +59° | 1394 | 11 | 30.4 | +59 | 58.8 | 8.3 | ✓ |
| 4 | +59° | 1395 | 11 | 31.5 | +59 | 36.3 | 8.9 | ✓ |
| 5 | +59° | 1397 | 11 | 33.5 | +59 | 43.7 | 8.5 | ✓ +59° 1896 Interpolated. |
| 6 | +58° | 1331 | 11 | 32.5 | +58 | 46.5 | 6.3 | ✓ |
| 7 | +59° | 1400 | 11 | 36.0 | +59 | 13.0 | 7.5 | ✓ |
| 8 | +58° | 1333 | 11 | 38.1 | +58 | 50.0 | 7.8 | ✓ |
| 9 | +58° | 1336 | 11 | 39.6 | +58 | 45.0 | 8.4 | ✓ |
| 10 | +60° | 1352 | 11 | 38.8 | +60 | 0.2 | 7.7 | ✓ |
| 11 | +59° | 1402 | 11 | 41.0 | +59 | 49.8 | 8.5 | ✓ |
| 12 | +58° | 1340 | 11 | 43.7 | +58 | 26.9 | 7.8 | ✓ |
| 13 | +57° | 1339 | 11 | 46.0 | +57 | 35.3 | 8.5 | ✓ |
| 14 | +57° | 1341 | 11 | 46.9 | +57 | 7.3 | 7.8 | ✓ |
| 15 | +57° | 1343 | 11 | 48.4 | +57 | 23.6 | 6.0 | ✓ |
| 16 | +57° | 1345 | 11 | 49.8 | +57 | 55.4 | 8.1 | ✓ |
| 17 | +58° | 1346 | 11 | 48.9 | +58 | 40.3 | 7.5 | ✓ |
| 18 | +58° | 1345 | 11 | 48.6 | +58 | 58.7 | 8.3 | ✓ |
| 19 | +59° | 1408 | 11 | 48.8 | +59 | 18.0 | 8.6 | ✓ |
| 20 | +59° | 1411 | 11 | 49.9 | +59 | 6.7 | 8.6 | ✓ |
| 21 | +58° | 1349 | 11 | 52.8 | +58 | 17.1 | 8.3 | ✓ |
| 22 | +58° | 1350 | 11 | 54.5 | +58 | 45.5 | 8.6 | ✓ |
| 23 | +59° | 1414 | 11 | 52.3 | +59 | 52.8 | 8.0 | ✓ |
| 24 | +60° | 1368 | 11 | 53.2 | +60 | 9.6 | 7.5 | ✓ |
| 25 | +60° | 1370 | 11 | 55.3 | +60 | 19.7 | 8.4 | ✓ |
| 26 | +58° | 1365 | 11 | 57.4 | +58 | 56.9 | 8.6 | ✓ |
| 27 | +58° | 1358 | 11 | 59.4 | +58 | 24.4 | 7.3 | ✓ |

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I 3774 18

| No. | Dist. | Class | Remarks |
|---|---|---|---|
| 28 | 5 | $fy^5$ | |
| 29 | 3 | $f^2$ | |
| 30 | 3 | $fy^0$ | |
| 31 | 2 | $fy$ | |
| 32 | 4 | $K^0$ | |
| 33 | 6 | $K^5$ | |
| 34 | 10+ | $A^2$ | |
| 35 | 3 | $F^5$ | |
| 36 | 4 | $K^2$ | E. |
| 37 | 8 | $K^2$ | |
| 38 | 2 | $K$ | E. |
| 39 | 7 | Ma | |
| 40 | 2 | $fy$ | E. |
| 41 | 2 | $A$ | E. |
| 42 | 4 | $fy^0$ | E. |
| 43 | 3 | $fy^5$ | E. |
| 44 | 8 | $fy^5$ | |
| 45 | 10 | $A^3$ | |
| 46 | 4 | $A^2$ | E. |
| 47 | 4 | Ma | ~~H 8 br = 6 Hy = 4. Sp~~ = ma. H 3 br = 1. Max. light is at H 6. |
| 48 | 8 | $A^3$ | E. |
| 49 | 1 | $fy^5$ | |
| 50 | 10 | $F^5$ | |
| 51 | 2 | $fy$ | |
| 52 | 4 | $fy^5$ | |
| 53 | 4 | Ma | |
| 54 | 8 | $f^2$ | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 28 | +59° | 1420 | 12 | 1.0 | +59 | 21.6 | 7.5 ✓ |
| 29 | +59° | 1421 | 12 | 1.7 | +59 | 10.7 | 8.5 ✓ |
| 30 | +59° | 1422 | 12 | 1.8 | +59 | 49.8 | 8.0 ✓ |
| 31 | +59° | 1426 | 12 | 3.9 | +59 | 11.6 | 9.0 ✓ |
| (32) | +58° | 1360 | 12 | 2.8 | +58 | 29.9 | 8.3 ✓ |
| 33 | +57° | 1359 | 12 | 4.5 | +57 | 52.2 | 6.5 ✓ |
| 34 | +57° | 1363 | 12 | 8.2 | +57 | 50.5 | 3.3 ✓ |
| 35 | +58° | 1365 | 12 | 8.5 | +58 | 24.5 | 8.3 ✓ |
| 36 | +57° | 1364 | 12 | 9.7 | +57 | 6.3 | 7.5 ✓ |
| 37 | +58° | 1371 | 12 | 13.8 | +58 | 39.8 | 6.0 ✓ |
| 38 | +58° | 1373 | 12 | 17.0 | +58 | 34.3 | 8.2 ✓ |
| 39 | +57° | 1373 | 12 | 18.1 | +57 | 33.9 | 6.4 ✓ |
| 40 | +58° | 1374 | 12 | 17.9 | +58 | 9.5 | 8.5 ✓ |
| 41 | +57° | 1372 | 12 | 18.0 | +57 | 57.9 | 8.8 ✓ |
| 42 | +57° | 1376 | 12 | 22.7 | +57 | 8.4 | 8.2 ✓ |
| 43 | +57° | 1378 | 12 | 26.8 | +57 | 46.2 | 8.5 ✓ |
| 44 | +59° | 1846 | 12 | 23.3 | +59 | 34.2 | 6.2 ✓ |
| 45 | +59° | 1444 | 12 | 23.2 | +59 | 12.0 | 5.7 ✓ |
| 46 | +59° | 1448 | 12 | 27.9 | +59 | 2.6 | 8.4 ✓ |
| 47 | +60° | 1406 | 12 | 29.8 | +60 | 17.2 | var. ✓ |
| 48 | +60° | 1330 | 12 | 23.1 | +60 | 29.6 | 6.8 ✓ |
| 49 | +61° | 1247 | 11 | 24.8 | +61 | 26.2 | 8.5 ✓ |
| 50 | +61° | 1246 | 11 | 24.1 | +61 | 52.1 | 6.0 ✓ |
| 51 | +61° | 1249 | 11 | 26.7 | +61 | 29.3 | 8.9 ✓ |
| 52 | +62° | 1188 | 11 | 24.8 | +62 | 53.6 | 7.8 ✓ |
| 53 | +62° | 1190 | 11 | 29.3 | +62 | 59.1 | 7.0 ✓ |
| 54 | +63° | 972 | 11 | 29.5 | +63 | 30.5 | 7.0 ✓ |

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| Nr. | Qut. | Class | Remark |
|---|---|---|---|
| 55 | 8 | F5 | |
| 56 | 5 | F5 | |
| 57 | 1 | K | |
| 58 | 7 | Ly5 | |
| 59 | 5 | F0 | |
| 60 | 3 | K2 | |
| 61 | 1 | A | |
| 62 | 2 | Ly | |
| 63 | 3 | F8 | |
| 64 | 9 | F0 | |
| 65 | 3 | ~~F5 Ha~~ Too much exposed on 66. Double star on 3 4.588 | |
| 66 | 4 | K0 | |
| 67 | 6 | F2 | |
| 68 | 1 | Ly5 | |
| 69 | 8 | Ly5 | |
| 70 | 6 | Ly5 | |
| 71 | 6 | A3 | |
| 72 | 5 | A3 | |
| 73 | 4 | K2 | |
| 74 | 3 | Ly5 | |
| 75 | 3 | K0 | |
| 76 | 1 | K | |
| 77 | 3 | Ly0 | |
| 78 | 1 | Ly | |
| 79 | 5 | K0 | |
| 80 | 1 | K | |
| 81 | 2 | Ly | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | +63° | 9'74 | 11h | 32.3 | +63 | 12.4 | 6.8 ✓ |
| 56 | +62° | 11'93 | 11h | 30.5 | +62 | 5.5 | 8.1 ✓ |
| 57 | +62° | 11'92 | 11h | 30.2 | +62 | 25.6 | 8.8 ✓ |
| 58 | +61° | 12'58 | 11h | 33.1 | +61 | 38.6 | 6.8 ✓ |
| 59 | +60° | 13'39 | 11h | 32.8 | +60 | 54.5 | 7.5 ✓ |
| 60 | +60° | 13'47 | 11h | 36.9 | +60 | 50.7 | 7.7 ✓ |
| 61 | +60° | 13'48 | 11h | 36.4 | +60 | 24.7 37.8 | 9.1 ✓ |
| 62 | +60° | 13'54 | 11h | 38.9 | +60 | 38.9 | 8.5 ✓ |
| 63 | +60° | 13'55 | 11h | 39.3 | +60 | 48.2 | 8.6 ✓ |
| 64 | +62° | 11'98 | 11h | 39.3 | +62 | 12.8 | 6.5 ✓ |
| 65 | +62° | 12'00 | 11h | 42.9 | +62 | 1.6 | 8.0 ✓ |
| 66 | +62° | 11'99 | 11h | 42.9 | +62 | 10.0 | 7.5 ✓ |
| 67 | +62° | 12'01 | 11h | 44.4 | +62 | 31.0 | 7.5 ✓ |
| 68 | +61° | 12'69 | 11h | 46.6 | +61 | 49.9 | 9.0 ✓ |
| 69 | +62° | 12'04 | 11h | 49.3 | +62 | 20.8 | 6.2 ✓ |
| 70 | +62° | 12'06 | 11h | 50.8 | +62 | 16.8 | 6.5 ✓ |
| 71 | +62° | 12'07 | 11h | 51.8 | +62 | 8.1 | 6.8 ✓ |
| 72 | +61° | 12'74 | 11h | 49.2 | +61 | 18.5 | 7.8 ✓ |
| 73 | +61° | 12'76 | 11h | 50.3 | +61 | 16.0 | 7.3 ✓ |
| 74 | +60° | 13'67 | 11h | 52.3 | +60 | 58.0 | 8.1 ✓ |
| 75 | +60° | 13'60 | 11h | 46.3 | +60 | 29.1 | 8.0 ✓ |
| 76 | +60° | 13'61 | 11h | 46.7 | +60 | 9.4 | 8.5 ✓ |
| 77 | +60° | 13'62 | 11h | 48.2 | +60 | 39.0 | 8.0 ✓ |
| 78 | +59° | 14'07 | 11h | 45.9 | +59 | 33.0 | 8.8 ✓ |
| 79 | +62° | 12'14 | 11h | 56.6 | +62 | 12.8 | 6.8 ✓ |
| 80 | +60° | 13'74 | 11h | 59.6 | +60 | 34.5 | 8.5 ✓ |
| 81 | +60° | 13'75 | 12h | 0.2 | +60 | 31.1 | 8.0 ✓ |

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May 16, 1912

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| No. | Grt. | Class | Remark |
|---|---|---|---|
| 82 | 2 | F5 | |
| 83 | 2 | Ly0 | |
| 84 | 3 | Ly5 | |
| 85 | 6 | A2 | |
| 86 | 3 | K0 | |
| 87 | 5 | Ly5 | |
| 88 | 2 | K5 | |
| 89 | 1 | Ly5 | |
| 90 | 2 | Ly | |
| 91 | 2 | Ly | |
| 92 | 2 | F5 | |
| 93 | 4 | K0 | |
| 94 | 3 | Ly5 | |
| 95 | 2 | F5 | |
| 96 | 4 | A3 | |
| 97 | 6 | Ly5 | |
| 98 | 3 | F5 | |
| 99 | 8 | Ly0 | Line H δ very sharp. |
| 100 | 8 | A2 | |
| 101 | 3 | A | E. |
| 102 | 4 | A3 | E. |
| 103 | 9 | F | E. |
| 104 | 3 | Ly5 | E. |
| 105 | 2 | A7 | E. |
| 106 | 4 | Ly5 | E. |
| 107 | 5 | F5 | E. |
| 108 | 2 | Ly5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | +60° | 1376 | 12ʰ | 0.3 | +60 | 51.0 | 9.1 J |
| 83 | +60° | 1382 | 12ʰ | 4.8 | +60 | 29.5 | 8.4 ✓ |
| 84 | +60° | 1383 | 12ʰ | 5.8 | +60 | 31.7 | 7.7 J |
| 85 | +61° | 1283 | 12ʰ | 5.9 | +61 | 12.2 | 7.9 ✓ |
| 86 | +61° | 1284 | 12ʰ | 7.0 | +61 | 15.4 | 7.5 ✓ |
| 87 | +61° | 1289 | 12ʰ | 11.3 | +61 | 8.0 | 7.7 J |
| 88 | +59° | 1431 | 12ʰ | 8.0 | +59 | 45.3 | 8.4 ✓ |
| 89 | +59° | 1434 | 12ʰ | 9.2 | +59 | 21.9 | 9.1 ✓ |
| 90 | +59° | 1435 | 12ʰ | 9.7 | +59 | 18.5 | 8.8 J |
| 91 | +60° | 1391 | 12ʰ | 12.2 | +60 | 28.2 | 9.0 J |
| 92 | +60° | 1394 | 12ʰ | 15.1 | +60 | 28.3 | 8.5 J |
| 93 | +60° | 1396 | 12ʰ | 15.9 | +60 | 55.9 | 7.2 J |
| 94 | +60° | 1397 | 12ʰ | 16.9 | +60 | 54.6 | 7.3 ✓ |
| 95 | +60° | 1398 | 12ʰ | 17.6 | +60 | 18.4 | 8.3 J |
| 96 | +60° | 1399 | 12ʰ | 18.5 | +60 | 20.9 | 8.4 J |
| 97 | +61° | 1292 | 12ʰ | 16.7 | +61 | 43.4 | 7.2 ✓ |
| 98 | +61° | 1293 | 12ʰ | 17.4 | +61 | 38.1 | 8.0 ✓ |
| 99 | +61° | 1294 | 12ʰ | 18.2 | +61 | 28.7 | 7.2 ✓ |
| 100 | +61° | 1295 | 12ʰ | 20.8 | +61 | 56.9 | 7.0 J |
| 101 | +63° | ~~1009~~ 95 | ~~12ʰ~~ 1ʰ | ~~12.7~~ 17.7 | +63 | ~~9.7~~ 17.0 | ~~7.0~~ 8.5 ✓ |
| 102 | +62° | 1180 | 11ʰ | 18.8 | +62 | 54.6 | 8.4 J |
| 103 | +62° | 1183 | 11ʰ | 20.8 | +62 | 34.0 | 6.4 ✓ |
| 104 | +63° | ~~1018~~ 960 | ~~12ʰ~~ 1ʰ | ~~18.8~~ 8.5 | +63 | ~~5.8~~ 3.9 | ~~7.3~~ 8.0 ✓ |
| 105 | +64° | 846 | 11ʰ | 17.6 | +64 | 36.8 | 8.7 ✓ |
| 106 | +64° | 847 | 11ʰ | 19.2 | +64 | 58.1 | 8.2 J |
| 107 | +64° | 848 | 11ʰ | 20.6 | +64 | 22.1 | 7.5 J |
| 108 | +63° | 964 | 11ʰ | 22.6 | +63 | 21.3 | 8.6 ✓ |

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May 16, 1912.

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| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 3 | Ly | |
| 110 | 3 | F5 | |
| 111 | 3 | F5 | |
| 112 | 3 | Ly | |
| 113 | 2 | Ly5 | |
| 114 | 3 | Ly | Poor focus. |
| 115 | 7 | A0 | |
| 116 | 4 | A3 | |
| 117 | 2 | Ly | |
| 118 | 2 | F | Poor focus. |
| 119 | 3 | F5 | |
| 120 | 2 | Ly | Poor focus. |
| 121 | 4 | F8 | |
| 122 | 8 | A2 | |
| 123 | 3 | Ly | |
| 124 | 4 | F5 | |
| 125 | 2 | A | |
| 126 | 2 | F5 | |
| 127 | 6 | A | Partly superposed on 128. |
| 128 | 4 | ~~F5~~ K | Cmp. in 34585. |
| 129 | 4 | K0 | |
| 130 | 5 | F5 | |
| 131 | 2 | F5 | |
| 132 | 4 | A5 | |
| 133 | 3 | Ly5 | |
| 134 | 2 | F0 | |
| 135 | 2 | Ly | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 109 | +63° | 966 | 11 | 23.6 | +63 | 18.3 | 8.9 | √ |
| 110 | +64° | 853 | 11 | 24.0 | +64 | 14.6 | 8.6 | √ |
| 111 | +64° | 854 | 11 | 24.8 | +64 | 41.7 | 8.8 | √ |
| 112 | +64° | 855 | 11 | 26.4 | +64 | 26.4 | 8.3 | √ |
| 113 | +64° | 856 | 11 | 26.8 | +64 | 36.8 | 8.8 | √ |
| 114 | +65° | 838 | 11 | 27.2 | +65 | 7.1 | 8.8 | √ |
| 115 | +64° | 857 | 11 | 30.2 | +64 | 57.8 | 7.7 | √ |
| 116 | +65° | 843 | 11 | 30.7 | +65 | 8.2 | 6.7 | √ |
| 117 | +64° | 858 | 11 | 31.3 | +64 | 52.0 | 8.8 | √ |
| 118 | +65° | 846 | 11 | 32.9 | +65 | 0.3 | 9.0 | √ |
| 119 | +65° | 847 | 11 | 35.0 | +65 | 9.2 | 8.8 | √ |
| 120 | +64° | 862 | 11 | 35.7 | +64 | 59.3 | 8.8 | √ |
| 121 | +65° | 848 | 11 | 36.0 | +65 | 46.3 | 8.0 | √ |
| 122 | +65° | 851 | 11 | 39.2 | +65 | 12.1 | 7.1 | √ |
| 123 | +64° | 866 | 11 | 39.4 | +64 | 56.6 | 9.0 | √ |
| 124 | +64° | 867 | 11 | 39.9 | +64 | 28.9 | 8.4 | √ |
| 125 | +63° | 976 | 11 | 34.7 | +63 | 22.6 | 8.8 | √ |
| 126 | +63° | 977 | 11 | 36.6 | +63 | 33.3 | 9.0 | √ |
| 127 | +63° | 982 | 11 | 45.3 | +63 | 33.5 | 7.8 | √ |
| 128 | +63° | 981 | 11 | 46.2 | +63 | 43.8 | 7.8 | √ |
| 129 | +63° | 986 | 11 | 49.1 | +63 | 41.4 | 7.7 | √ |
| 130 | +63° | 987 | 11 | 49.7 | +63 | 2.1 | 7.8 | √ |
| 131 | +63° | 990 | 11 | 50.3 | +63 | 9.9 | 9.2 | √ |
| 132 | +63° | 992 | 11 | 52.4 | +63 | 59.7 | 8.8 | √ |
| 133 | +63° | 993 | 11 | 53.6 | +63 | 49.3 | 8.8 | √ |
| 134 | +63° | 996 | 11 | 57.2 | +63 | 55.7 | 9.1 | √ |
| 135 | +63° | 997 | 11 | 57.3 | +63 | 47.7 | 8.5 | √ |

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May 16, 1912

I 37718

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 9 | K0 | |
| 137 | 2 | F5 | Poor focus. |
| 138 | 1 | ly | Partly superposed on 139. |
| 139 | 4 | F8 | |
| 140 | 2 | F | |
| 141 | 3 | F5 | |
| 142 | 3 | ly0 | |
| 143 | 4 | K2 | |
| 144 | 1 | K | |
| 145 | 5 | F8 | |
| 146 | 7 | ly5 | |
| 147 | 8 | A3 | |
| 148 | 2 | F5 | |
| 149 | 4 | Ma | |
| 150 | 5 | ly0 | |
| 151 | 1 | F8 | |
| 152 | 7 | ly5 | |
| 153 | 3 | ly5 | |
| 154 | 1 | K | |
| 155 | 3 | K0 | |
| 156 | 3 | K0 | |
| 157 | 9 | ly5 | |
| 158 | 3 | K0 | |
| 159 | 4 | ly5 | |
| 160 | 10 | A | E. |
| 161 | 7 | F5 | E. |
| 162 | 4 | F5 | E |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 136 | +63° | 999 | 11' | 58.3 | +63' | 44.7 | 6.0 ✓ |
| 137 | +64° | 878 | 11' | ~~58.7~~ | +64' | ~~14.7~~ 38.4 | 9.0 ✓ |
| 138 | +64° | 880 | 12' | 0.8 | +64' | 34.4 | 9.1 ✓ |
| 139 | +64° | 881 | 12' | 1.0 | +64' | 41.3 | 8.3 ✓ |
| 140 | +63° | 1000 | 12' | 0.1 | +63' | 31.0 | 9.0 ✓ |
| 141 | +63° | 1001 | 12' | 2.2 | +63' | 47.2 | 8.9 ✓ |
| 142 | +65° | 873 | 12' | 4.6 | +65' | 1.4 | 8.7 ✓ |
| 143 | +65° | 874 | 12' | 4.9 | +65' | 16.2 | 7.3 ✓ |
| 144 | +65° | 875 | 12' | 6.7 | +65' | 15.2 | 8.8 ✓ |
| 145 | +64° | 887 | 12' | 9.7 | +64' | 26.0 | 8.2 ✓ |
| 146 | +64° | 890 | 12' | 13.7 | +64' | 39.0 | 6.8 ✓ |
| 147 | +63° | 1009 | 12' | 12.7 | +63' | 9.9 | 7.0 ✓ |
| 148 | +62° | 1223 | 12' | 11.1 | +62' | 7.1 | 8.9 ✓ |
| 149 | +62° | 1224 | 12' | 13.5 | +62' | 6.7 | 7.4 ✓ |
| 150 | +62° | 1227 | 12' | 14.6 | +62' | 33.7 | 7.5 ✓ |
| 151 | +62° | 1226 | 12' | 14.4 | +62' | 16.4 | 8.3 ✓ |
| 152 | +62° | 1228 | 12' | 15.1 | +62' | 23.7 | 6.8 ✓ |
| 153 | +62° | 1229 | 12' | 15.4 | +62' | 16.8 | 7.3 ✓ |
| 154 | +62° | 1235 | 12' | 19.1 | +62' | 27.1 | 9.2 ✓ |
| 155 | +63° | 1013 | 12' | 16.6 | +63' | 50.2 | 7.3 ✓ |
| 156 | +64° | 893 | 12' | 17.5 | +64' | 37.4 | 8.3 ✓ |
| 157 | +64° | 896 | 12' | 18.3 | +64' | 37.4 | 6.0 ✓ |
| 158 | +64° | 894 | 12' | 17.8 | +64' | 55.0 | 8.3 ✓ |
| 159 | +64° | 905 | 12' | 25.4 | +64' | 33.9 | 7.7 ✓ |
| 160 | +65° | 828 | 11' | 14.2 | +65' | 7.7 | 6.0 ✓ |
| 161 | +66° | 724 | 11' | 25.8 | +66' | 3.0 | 7.2 ✓ |
| 162 | +67° | 709 | 11' | 27.9 | +67' | 8.6 | 7.9 ✓ |

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May 16, 1912

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| No. | Int. | Class | Remark |
|---|---|---|---|
| 163 | 2 | $\lambda 5$ | |
| 164 | 3 | $\lambda$ | E. |
| 165 | 8 | $\lambda 5$ | |
| 166 | 4 | $\lambda 2$ | |
| 167 | 4 | $\lambda 8$ | |
| 168 | 8 | $A_3$ | |
| 169 | 3 | $\lambda 5$ | |
| 170 | 2 | $\lambda$ | |
| 171 | 3 | $\lambda 5$ | |
| 172 | 6 | $\lambda 5$ | |
| 173 | 7 | $\lambda 0$ | |
| 174 | 3 | $\lambda 5$ | |
| 175 | 3 | $\lambda$ | E. |
| 176 | 8 | A | E. |
| 177 | 3 | $\lambda 5$ | E. |
| 178 | 4 | $\lambda 5$ | E. |
| 179 | 7 | $A_3$ | E. |

Time: 22. 41



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 163 | +65° | 855 | 11 | 45.6 | +65 | 51.3 | 8.0 | ✓ |
| 164 | +66° | 734 | 11 | 46.5 | +66 | 1.1 | 8.5 | ✓ |
| 165 | +66° | 737 | 11 | 49.0 | +66 | 2.3 | 6.5 | ✓ |
| 166 | +66° | 742 | 11 | 53.9 | +66 | 55.8 | 6.8 | ✓ |
| 167 | +67° | 730 | 11 | 57.2 | +67 | 8.6 | 7.5 | ✓ |
| 168 | +65° | 863 | 11 | 57.2 | +65 | 43.9 | 6.8 | ✓ |
| 169 | +64° | 817 | 11 | 56.9 | +64 | 58.6 | 8.6 | ✓ |
| 170 | +64° | 812 | 11 | 48.2 | +64 | 38.2 | 8.8 | ✓ |
| 171 | +65° | 867 | 12 | 0.5 | +65 | 24.2 | 8.6 | ✓ |
| 172 | +66° | 746 | 12 | 1.3 | +66 | 9.4 | 7.6 | ✓ |
| 173 | +66° | 751 | 12 | 7.0 | +66 | 54.9 | 6.8 | ✓ |
| 174 | +65° | 817 | 12 | 8.2 | +65 | 59.1 | 8.3 | ✓ |
| 175 | +66° | 752 | 12 | 11.0 | +66 | 55.8 | 8.5 | ✓ |
| 176 | +67° | 742 | 12 | 13.5 | +67 | 12.1 | 6.8 | ✓ |
| 177 | +66° | 754 | 12 | 12.0 | +66 | 11.3 | 8.2 | ✓ |
| 178 | +66° | 761 | 12 | 21.7 | +66 | 16.8 | 7.5 | ✓ |
| 179 | +66° | 763 | 12 | 24.4 | +66 | 41.8 | 6.6 | ✓ |

Identified by A.M.C. June 24, 1912
cards made out by Mr C. W. Sept. 26 '12
Checked by J.B.W. Sept. 23, 1912

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

Finley May 17, 1912

Time: 0.21 F37741

| Nr. | Int. | Class | Remarks |
|---|---|---|---|
| 1 | 3 | fy | E. |
| 2 | 3 | Fz | E. |
| 3 | 5 | K0 | |
| 4 | 2 | F5 | |
| 5 | 8 | F5 | |
| 6 | 2 | fy | E. |
| 7 | 7 | K0 | |
| 8 | 2 | F5 | |
| 9 | 5 | fy0 | |
| 10 | 3 | F5 | |
| 11 | 3 | fy5 | |
| 12 | 5 | K0 | |
| 13 | 8 4 | fy5 | |
| 14 | 10 | Fz | |
| 15 | 2 | A2 | |
| 16 | 2 | fy5 | |
| 17 | 2 | F8 | |
| 18 | 2 | A2 | |
| 19 | 2 | K0 | |
| 20 | 5 | A0 | |
| 21 | 10 | A0 | |
| 22 | 1 | fy? | Look up. |
| 23 | 2 | fy5 | |
| 24 | 1 | A0 | |
| 25 | 7 | K0 | |
| 26 | 4 | F0 | |
| 27 | 6 | F5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | +28° | 1722 | q | 7.0 | +28 | 31.2 | 7.8 ✓ |
| 21 | +28° | 1723 | q | 7.3 | +28 | 49.1 | 8.3 ✓ |
| 3 | +29° | 1883 | q | 9.3 | +29 | 11.3 | 7.0 ✓ |
| 4 | +28° | 1732 | q | 9.4 | +28 | 45.7 | 8.7 ✓ |
| 5 | +28° | 1729 | q | 9.1 | +28 | 1.7 | 6.7 ✓ |
| 6 | +27° | 1734 | q | 7.7 | +27 | 3.5 | 8.1 ✓ |
| 7 | +26° | 1927 | q | 10.8 | +26 | 51.1 | 6.7 ✓ |
| 8 | +25° | 2081 | q | 11.1 | +25 | 46.9 | 8.0 ✓ |
| 9 | +25° | 2084 | q | 12.7 | +25 | 47.2 | 7.0 ✓ |
| 10 | +26° | 1932 | q | 12.8 | +26 | 37.4 | 8.0 ✓ |
| 11 | +26° | 1936 | q | 14.3 | +26 | 22.9 | 8.1 ✓ |
| 12 | +26° | 1938 | q | 15.7 | +26 | 31.3 | 7.0 ✓ |
| 13 | +25° | 2088 | q | 15.1 | +25 | 49.0 | 6.6 ✓ |
| 14 | +26° | 1939 | q | 16.2 | +26 | 48.6 | 4.2 ✓ |
| 15 | +27° | 1750 | q | 16.3 | +27 | 17.9 | 8.3 ✓ |
| 16 | +26° | 1944 | q | 18.3 | +26 | 59.0 | 8.4 ✓ |
| 17 | +26° | 1942 | q | 17.8 | +26 | 12.1 | 8.5 ✓ |
| 18 | +25° | 2091 | q | 16.6 | +25 | 51.7 | 8.0 ✓ |
| 19 | +26° | 1951 | q | 20.5 | +26 | 50.9 | 8.2 ✓ |
| 20 | +28° | 1765 | q | 21.1 | +28 | 1.2 | 8.0 ✓ |
| 21 | +28° | 1768 | q | 22.8 | +28 | 1.9 | 6.7 ✓ |
| 22 | +27° | 1768 | q | 23.3 | +27 | 22.4 | 8.4 ✓ |
| 23 | +27° | 1770 | q | 23.6 | +27 | 27.9 | 8.0 ✓ |
| 24 | +27° | 1773 | q | 24.1 | +27 | 14.4 | 9.1 ✓ |
| 25 | +27° | 1775 | q | 24.3 | +27 | 39.3 | 7.0 ✓ |
| 26 | +27° | 1776 | q | 24.5 | +27 | 50.2 | 8.3 ✓ |
| 27 | +27° | 1779 | q | 25.6 | +27 | 59.9 | 8.0 ✓ |

cards made out

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

May 17, 1912

I 3774

| M. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 2 | K0 | |
| 29 | 8 | B9 | |
| 30 | 8 | F8 | |
| 31 | 7 | F0 | |
| 32 | 1 | K | |
| 33 | 6 | K0 | |
| 34 | 3 | K0 | |
| 35 | 10 | A2 | |
| 36 | 1 | G5 | |
| 37 | 2 | K0 | |
| 38 | 1 | G | |
| 39 | 1 | A5 | |
| 40 | 6 | K0 | |
| 41 | 4 | B9 | |
| 42 | 1 | F | Difficult. |
| 43 | 1 | G | |
| 44 | 1 | K | |
| 45 | 3 | G0 | |
| 46 | 3 | G5 | |
| 47 | 4 | F0 | |
| 48 | 9 | F0 | |
| 49 | 10 | A2 | |
| 50 | 1 | K | |
| 51 | 1 | F5 | |
| 52 | 7 | A5 | |
| 53 | 7 | F0 | |
| 54 | 3 | K0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | +27° | 1780 | 9 | 25.6 | +27 | 26.8 | 8.3 ✓ |
| 29 | +26° | 1974 | 9 | 26.8 | +26 | 49.7 | 7.7 ✓ |
| 30 | +25° | 2127 | 9 | 29.5 | +25 | 19.7 | 6.5 ✓ |
| 31 | +26° | 1989 | 9 | 30.9 | +26 | 1.2 | 6.7 ✓ |
| 32 | +26° | 1990 | 9 | 32.2 | +26 | 40.1 | 7.8 ✓ |
| 33 | +26° | 1991 | 9 | 33.3 | +26 | 34.0 | 6.5 ✓ |
| 34 | +26° | 1993 | 9 | 34.0 | +26 | 16.1 | 7.7 ✓ |
| 35 | +29° | 1913 | 9 | 24.8 | +29 | 0.6 | 7.0 ✓ |
| 36 | +29° | 1914 | 9 | 25.0 | +29 | 31.0 | 8.8 ✓ |
| 37 | +28° | 1771 | 9 | 26.7 | +28 | 34.0 | 8.2 ✓ |
| 38 | +28° | 1774 | 9 | 28.0 | +28 | 58.6 | 9.0 ✓ |
| 39 | +28° | 1773 | 9 | 27.7 | +28 | 17.2 | 9.0 ✓ |
| 40 | +28° | 1780 | 9 | 28.4 | +28 | 24.7 | 7.3 ✓ |
| 41 | +28° | 1785 | 9 | 30.0 | +28 | 40.0 | 7.8 ✓ |
| 42 | +28° | 1792 | 9 | 31.6 | +28 | 57.2 | 9.2 ✓ |
| 43 | +28° | 1793 | 9 | 31.9 | +28 | 53.2 | 9.0 ✓ |
| 44 | +29° | 1926 | 9 | 31.6 | +29 | 19.3 | 9.0 ✓ |
| 45 | +28° | 1797 | 9 | 33.2 | +28 | 36.9 | 8.5 ✓ |
| 46 | +29° | 1933 | 9 | 33.3 | +29 | 31.7 | 7.8 ✓ |
| 47 | +29° | 1936 | 9 | 33.7 | +29 | 22.1 | 8.4 ✓ |
| 48 | +30° | 1898 | 9 | 34.3 | +30 | 46.7 | 7.2 ✓ |
| 49 | +30° | 1901 | 9 | 35.1 | +30 | 38.6 | 5.3 ✓ |
| 50 | +29° | 1939 | 9 | 35.8 | +29 | 27.8 | 8.5 ✓ |
| 51 | +29° | 1940 | 9 | 36.1 | +29 | 13.0 | 9.3 ✓ |
| 52 | +29° | 1942 | 9 | 36.4 | +29 | 22.4 | 7.4 ✓ |
| 53 | +28° | 1802 | 9 | 36.8 | +28 | 25.7 | 7.3 ✓ |
| 54 | +27° | 1806 | 9 | 37.6 | +27 | 43.9 | 7.8 ✓ |

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May 17. 1912

I 37741

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 3 | A2 | |
| 56 | 2 | ly | |
| 57 | 10 | K | E. |
| 57a | 2 | F8 | |
| 58 | 7 | A0 | |
| 59 | 2 | K0 | |
| 60 | 3 | ly | E. |
| 61 | 5 | A0 | E. |
| 62 | 3 | K0 | |
| 63 | 1 | ly | |
| 64 | 3 | ly5 | |
| 65 | 2 | K2 | |
| 66 | 1 | A3 | |
| 67 | 6 | F2 | |
| 68 | 2 | F | |
| 69 | 4 | F5 | |
| 70 | 2 | F8 | |
| 71 | 4 | F8 | |
| 72 | 4 | B9 | |
| 73 | 1 | A5 | |
| 74 | 2 | K | |
| 75 | 3 | K0 | |
| 76 | 2 | F8 | |
| 77 | 1 | ly5 | |
| 78 | 1 | A | |
| 79 | 2 | F | |
| 80 | 1 | ly | |
| 81 | 4 | K0 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | +27° | 1808 | q | 38.4 | +27 | 34.7 | 8.5 |
| 56 | +27° | 1809 | q | 38.5 | +27 | 49.6 | 8.4 |
| 57 | +26° | 2019 | q | 44.5 | +26 | 41.8 | 4.0 |
| 57a | +28° | 1804 | q | 37.8 | +28 | 55.9 | 8.8 |
| 58 | +29° | 1948 | q | 39.9 | +29 | 11.5 | 7.6 |
| 59 | +30° | 1911 | q | 39.2 | +30 | 14.5 | 8.0 |
| 60 | +30° | 1834 | q | 5.7 | +30 | 32.9 | 8.0 |
| 61 | +30° | 1839 | q | 8.3 | +30 | 58.1 | 7.7 |
| 62 | +31° | 1961 | q | 8.7 | +31 | 53.1 | 7.8 |
| 63 | +30° | 1845 | q | 10.0 | +30 | 20.9 | 8.3 |
| 64 | +30° | 1847 | q | 10.2 | +30 | 26.8 | 8.3 |
| 65 | +28° | 1739 | q | 11.4 | +28 | 57.0 | 7.9 |
| 66 | +29° | 1888 | q | 12.6 | +29 | 8.2 | 9.1 |
| 67 | +29° | 1890 | q | 13.2 | +29 | 7.4 | 7.8 |
| 68 | +27° | 1742 | q | 11.5 | +27 | 48.1 | 8.5 |
| 69 | +28° | 1745 | q | 15.4 | +28 | 31.9 | 8.0 |
| 70 | +29° | 1899 | q | 16.9 | +29 | 29.5 | 8.7 |
| 71 | +29° | 1900 | q | 17.5 | +29 | 16.8 | 8.0 |
| 72 | +30° | 1864 | q | 16.5 | +30 | 4.5 | 8.3 |
| 73 | +28° | 1752 | q | 17.7 | +28 | 40.2 | 9.2 |
| 74 | +29° | 1903 | q | 18.8 | +29 | 52.6 | 8.2 |
| 75 | +29° | 1906 | q | 21.5 | +29 | 20.9 | 7.9 |
| 76 | +30° | 1873 | q | 21.9 | +30 | 11.6 | 8.6 |
| 77 | +29° | 1908 | q | 22.6 | +29 | 55.3 | 8.8 |
| 78 | +30° | 1872 | q | 21.5 | +30 | 39.9 | 9.0 |
| 79 | +30° | 1876 | q | 23.9 | +30 | 12.7 | 8.9 |
| 80 | +31° | 1999 | q | 23.5 | +31 | 5.3 | 8.5 |
| 81 | +31° | 2000 | q | 24.4 | +31 | 12.4 | 7.8 |

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May 17, 1912

I 37741

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 2 | fp0 | |
| 83 | 3 | fp5 | |
| 84 | 5 | F5 | |
| 85 | 8 | Ma | |
| 86 | 1 | F | |
| 87 | 3 | fg5 | |
| 88 | 4 | F0 | |
| Time: 0.37 89 | 1 | fg5 | |
| " 3.17 90 | *2 | F2 N | Partly superposed on 91 |
| 91 | 4 | G0 | |
| 92 | 1 | G | |
| 93 | 7 | K5 | |
| 94 | 21 | F0 | |
| 95 | 7 | F2 | |
| 96 | 6 | G5 | |
| 97 | 4 | K0 | E |
| 98 | 5 | A | E |
| 99 | 21 | Ma | |
| 100 | 8 | A5 | |
| 101 | 3 | Ma | |
| 102 | 2 | K | E |
| 103 | 4 | kg5 | E |
| 104 | 6 | G5 | |
| 105 | 10 | K5 | E |
| 106 | 7 | K0 | |
| 107 | 8 | A0 | |
| 108 | 24 | G5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | +31° | 2002 | q | 26.1 | +31 | 11.8 | 8.5 J |
| 83 | +31° | 2003 | q | 26.2 | +31 | 39.5 | 8.3 J |
| 84 | +31° | 2007 | qc | 26.9 | +31 | 42.8 | 7.5 J |
| 85 | +31° | 2011 | q | 28.1 | +31 | 48.2 | 5.3 J |
| 86 | +31° | 2012 | q | 28.6 | +31 | 54.5 | 8.9 J |
| 87 | +31° | 2014 | q | 28.9 | +31 | 37.5 | 8.0 J |
| 88 | +31° | 2018 | q | 30.0 | +31 | 25.4 | 8.5 J |
| 89 | +30° | 1879 | q | 27.3 | +30 | 5.1 | 8.6 J |
| 90 | +30° | 1885 | q | 30.2 | +30 | 30.9 | 8.6 V |
| 91 | +30° | 1887 | q | 30.3 | +30 | 48.3 | 7.5 V |
| 92 | +31° | 2020 | q | 32.3 | +31 | 22.6 | 9.0 J |
| 93 | +31° | 2026 | q | 33.0 | +31 | 55.4 | 6.2 J |
| 94 | +32° | 1922 | q | 34.5 | +32 | 16.2 | 8.6 J |
| 95 | +32° | 1920 | q | 34.3 | +32 | 56.1 | 6.9 J |
| 96 | +33° | 1898 | q | 33.9 | +33 | 39.9 | 6.5 J |
| 97 | +34° | 2022 | q | 35.0 | +34 | 45.9 | 7.2 J |
| 98 | +34° | 2035 | q | 40.4 | +34 | 46.7 | 6.3 J |
| 99 | +33° | 1907 | q | 38.7 | +33 | 26.8 | 7.5 J |
| 100 | +31° | 2053 | q | 41.3 | +31 | 45.2 | 6.7 J |
| 101 | +32° | 1941 | q | 42.2 | +32 | 4.5 | 7.2 J |
| 102 | +32° | 1943 | q | 43.2 | +32 | 7.2 | 8.3 J |
| 103 | +32° | 1947 | q | 43.9 | +32 | 12.8 | 7.7 J |
| 104 | +34° | 1969 | q | 8.5 | +34 | 7.1 | 7.4 J |
| 105 | +35° | 1979 | q | 12.2 | +35 | 0.6 | 3.1 J |
| 106 | +33° | 1848 | q | 12.7 | +33 | 31.8 | 6.8 J |
| 107 | +32° | 1865 | q | 12.9 | +32 | 52.5 | 7.0 J |
| 108 | +33° | 1852 | q | 14.4 | +33 | 32.6 | 7.5 V |

cards made out

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

May 17, 1912 (cont.)

I 37741

| No. | Int. | Class | Remarks |
|---|---|---|---|
| 109 | 7 | B9 | |
| 110 | 5 | B8 | |
| 111 | 4 | F0 | |
| 112 | 4 | K0 | |
| 113 | 4 | A0 | |
| 114 | 8 | K0 | |
| 115 | 4 | G0 | |
| 116 | 6 | B8 | |
| 117 | 4 | G5 | |
| 118 | 2 | G5 | |
| 119 | 2 | G0 | |
| 120 | 1 | G0 | |
| 121 | 2 | G0 | |
| 122 | 1 | K0 | |
| 123 | 2 | K2 | |
| 124 | 2 | G5 | |
| Time 3.24 | 125 | 5 | F2 |
| | ~~126~~ | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 109 | +34° | 1985 | 9 | 14.6 | +34 | 5.8 | 7.7 J |
| 110 | +33° | 1859 | 9 | 17.0 | +33 | 23.0 | 7.8 ✓ |
| 111 | +33° | 1860 | 9 | 18.1 | +33 | 41.5 | 8.4 ✓ |
| 112 | +34° | 1998 | 9 | 21.2 | +34 | 12.2 | 7.7 J |
| 113 | +33° | 1870 | 9 | 21.3 | +33 | 56.7 | 8.0 ✓ |
| 114 | +34° | 1999 | 9 | 22.0 | +34 | 17.4 | 6.7 J |
| 115 | +32° | 1889 | 9 | 21.4 | +32 | 40.5 | 7.5 ✓ |
| 116 | +31° | 1992 | 9 | 21.5 | +31 | 56.8 | 7.3 J |
| 117 | +31° | 1978 | 9 | 16.8 | +31 | 7.1 | 7.5 ✓ |
| 118 | +31° | 1984 | 9 | 17.9 | +31 | 48.8 | 8.4 ✓ |
| 119 | +32° | 1884 | 9 | 19.2 | +32 | 5.8 | 8.5 ✓ |
| 120 | +32° | 1886 | 9 | 19.7 | +32 | 0.2 | 8.9 ✓ |
| 121 | +32° | 1891 | 9 | 22.7 | +32 | 22.5 | 8.8 ✓ |
| 122 | +32° | 1893 | 9 | 23.6 | +32 | 29.9 | 8.1 J |
| 123 | +33° | 1879 | 9 | 25.4 | +33 | 38.8 | 8.2 J |
| 124 | +32° | 1903 | 9 | 28.1 | +32 | 46.4 | 8.5 ✓ |
| 125 | +33° | 1895 | 9 | 32.1 | +33 | 38.9 | 7.5 ✓ |
| ~~126~~ | | | | | | | |

Identified by Anne. June 25, 1912 ✓
Checked by J.B.W. Aug. 27, 1912
cards made out by M.C.W.
Cards checked by Anne

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

Saturday, May 18, 1912

I 37719

Time : 10.23

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 2 | K2 | E. |
| 2 | 6 | K | E. |
| 3 | 2 | ly | E. Emit unless confirmed. |
| 4 | 2 | ly5 | " " " |
| 5 | 2 | ly | |
| 6 | 9 | A0 | |
| 7 | 8 | A2 | |
| 8 | 6 | K2 | |
| 9 | 3 | F8 | |
| 10 | 6 | A0 | |
| 11 | 1 | K | |
| 12 | 2 | F5 | |
| 13 | 5 | K0 | |
| 14 | 2 | F5 | |
| 15 | 5 4 | K0 | |
| 16 | 8 4 | K0 | |
| 17 | 3 | F5 | |
| 18 | 2 | K0 | |
| 19 | 2 | F8 | |
| 20 | 2 | F8 | |
| 21 | 6 | F2 | |
| 22 | 1 | ly5 | |
| 23 | 1 | K0 | |
| 24 | 1 | ly | |
| 25 | 2 | K0 | |
| 26 | 2 | K2 | |
| 27 | 2 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | +8° | 2844 | 14h | 13.1 | + 8° | 57.1 | 8.6 | ✓ |
| 2 | +9° | 2878 | 14h | 13.2 | + 9° | 15.5 | 8.0 | ✓ |
| 3 | +10° | 2670 | 14h | 14.3 | + 10° | 13.0 | 8.7 | ✓ |
| 4 | +10° | 2677 | 14h | 15.8 | + 10° | 22.9 | 8.8 | ✓ |
| 5 | +9° | 2881 | 14h | 16.1 | + 9° | 59.0 | 9.1 | ✓ |
| 6 | +9° | 2882 | 14h | 16.3 | + 9° | 6.4 | 5.0 | ✓ |
| 7 | +8° | 2857 | 14h | 16.9 | + 8° | 54.4 | 7.0 | ✓ |
| 8 | +8° | 2858 | 14h | 17.2 | + 8° | 44.8 | 7.3 | ✓ |
| 9 | +7° | 2784 | 14h | 18.8 | + 7° | 53.6 | 8.5 | ✓ |
| 10 | +9° | 2890 | 14h | 19.7 | + 9° | 1.9 | 7.9 | ✓ |
| 11 | +9° | 2888 | 14h | 18.9 | + 9° | 33.8 | 8.8 | ✓ |
| 12 | +9° | 2889 | 14h | 19.0 | + 9° | 51.9 | 9.0 | ✓ |
| 13 | +10° | 2685 | 14h | 19.9 | + 10° | 39.0 | 7.4 | ✓ |
| 14 | +11° | 2682 | 14h | 20.7 | + 11° | 30.0 | 8.8 | ✓ |
| 15 | +11° | 2684 | 14h | 22.0 | + 11° | 41.3 | 7.8 | ✓ |
| 16 | +10° | 2688 | 14h | 21.5 | + 10° | 58.9 | 7.7 | ✓ |
| 17 | +10° | 2690 | 14h | 21.9 | + 10° | 12.5 | 8.5 | ✓ |
| 18 | +9° | 2899 | 14h | 21.8 | + 9° | 49.6 | 8.6 | ✓ |
| 19 | +9° | 2901 | 14h | 22.0 | + 9° | 42.1 | 8.7 | ✓ |
| 20 | +10° | 2692 | 14h | 22.4 | + 10° | 2.4 | 8.3 | ✓ |
| 21 | +8° | 2868 | 14h | 23.0 | + 8° | 59.7 | 7.7 | ✓ |
| 22 | +10° | 2693 | 14h | 22.6 | + 10° | 30.9 | 8.9 | ✓ |
| 23 | +9° | 2904 | 14h | 23.1 | + 9° | 58.2 | 8.9 | ✓ |
| 24 | +10° | 2696 | 14h | 23.7 | + 10° | 7.2 | 9.0 | ✓ |
| 25 | +9° | 2909 | 14h | 24.3 | + 9° | 32.0 | 8.5 | ✓ |
| 26 | +9° | 2910 | 14h | 24.5 | + 9° | 15.8 | 8.2 | ✓ |
| 27 | +8° | 2871 | 14h | 24.6 | + 8° | 54.0 | 8.6 | ✓ |

Cards made out

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

Saturday, May 18, 1912
I 37719

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 2 | $g$ | E. |
| 29 | 2 | $f5$ | E. |
| 30 | 4 | $f2$ | |
| 31 | 4 | $k0$ | |
| 32 | 5 | $f5$ | |
| 33 | 4 | $f5$ | |
| 34 | 2 | $g$ | Partly superposed on 35. |
| 35 | 2 | $g5$ | |
| 36 | 5 | $a2$ | |
| 37 | 2 | $g0$ | |
| 38 | 6 | $f8$ | |
| 39 | 2 | $f8$ | |
| 40 | 5 | $k0$ | |
| 41 | 2 | $g5$ | |
| 42 | 2 | $f8$ | |
| 43 | 7 | $a3$ | |
| 44 | 5 | $k2$ | |
| 45 | 2 | $g5$ | |
| 46 | 1 | $g$ | Confirm. |
| 47 | 1 | $k0$ | |
| 48 | 2 | $k0$ | |
| 49 | 4 | $Bg$ | |
| 50 | 3 | $k5$ | E. |
| 51 | 10 | $g5$ | |
| 52 | 5 | $f2$ | |
| 53 | 2 | $g5$ | |
| 54 | 6 | $f8$ | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | +7° | 27′97″ | 14″ | 23′.9 | +7′ | 55′.0 | 8″.7 |
| 29 | +7° | 27′98″ | 14″ | 24′.6 | +7′ | 20′.3 | 8″.9 |
| 30 | +7° | 28′00″ | 14″ | 25′.2 | +7′ | 31′.8 | 8″.3 |
| 31 | +7° | 28′03″ | 14″ | 25′.8 | +7′ | 35′.7 | 8″.0 |
| 32 | +6° | 29′05″ | 14″ | 26′.2 | +6′ | 56′.0 | 8″.2 |
| 33 | +8° | 28′78″ | 14″ | 26′.6 | +8′ | 57′.3 | 8″.4 |
| 34 | +9° | 29′14″ | 14″ | 26′.4 | +9′ | 51′.4 | 8″.8 |
| 35 | +10° | 27′03″ | 14″ | 26′.5 | +10′ | 0′.5 | 8″.4 |
| 36 | +11° | 26′91″ | 14″ | 27′.1 | +11′ | 9′.5 | 8″.0 |
| 37 | +11° | 26′93″ | 14″ | 28′.2 | +11′ | 4′.9 | 8″.6 |
| 38 | +10° | 27′07″ | 14″ | 27′.9 | +10′ | 32′.8 | 7″.9 |
| 39 | +9° | 29′16″ | 14″ | 28′.0 | +9′ | 43′.3 | 9″.0 |
| 40 | +10° | 27′10″ | 14″ | 28′.9 | +10′ | 23′.5 | 7″.3 |
| 41 | +11° | 26′94″ | 14″ | 28′.3 | +11′ | 56′.4 | 8″.8 |
| 42 | +12° | 27′14″ | 14″ | 28′.6 | +12′ | 8′.1 | 8″.8 |
| 43 | +11° | 26′95″ | 14″ | 28′.8 | +11′ | 42′.5 | 7″.5 |
| 44 | +11° | 26′99″ | 14″ | 30′.1 | +11′ | 51′.2 | 7″.6 |
| 45 | +11° | 26′98″ | 14″ | 30′.0 | +11′ | 28′.0 | 8″.8 |
| 46 | +11° | 27′00″ | 14″ | 30′.4 | +11′ | 39′.2 | 9″.0 |
| 47 | +9° | 29′21″ | 14″ | 29′.9 | +9′ | 52′.4 | 8″.7 |
| 48 | +9° | 29′25″ | 14″ | 30′.9 | +9′ | 33′.7 | 8″.7 |
| 49 | +8° | 28′97″ | 14″ | 31′.7 | +8′ | 32′.5 | 8″.7 |
| 50 | +7° | 28′22″ | 14″ | 32′.9 | +7′ | 58′.3 | 8″.3 |
| 51 | +8° | 29′03″ | 14″ | 34′.6 | +8′ | 47′.0 | 5″.6 |
| 52 | +8° | 29′08″ | 14″ | 35′.8 | +8′ | 42′.7 | 8″.0 |
| 53 | +8° | 29′09″ | 14″ | 35′.8 | +8′ | 16′.6 | 8″.2 |
| 54 | +7° | 28′30″ | 14″ | 35′.7 | +7′ | 12′.4 | 7″.6 |

Cards made out

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

Saturday, May 18, 1912
I 37719

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 5 | f5 | |
| 56 | 5 | k0 | |
| 57 | 3 | mb | |
| 58 | 1 | k | |
| 59 | 1 | g | |
| 60 | 3 | a3 | |
| 61 | 7 | f5 | |
| 62 | 1 | g5 | E. |
| 63 | 4 | f5 | E. |
| 64 | 4 | k0 | |
| 65 | 8 | a5 | |
| 66 | 2 | g0 | Poor focus. |
| 67 | 6 | f8 | |
| 68 | 5 | f5 | |
| 69 | 21 | g5 | |
| 70 | 2 | f5 | |
| 71 | 3 | k0 | |
| 72 | 9 | f8 | |
| 73 | 1 | g | |
| 74 | 2 | g0 | |
| 75 | 1 | g | |
| 76 | 1 | g | |
| 77 | 4 | g0 | |
| 78 | 2 | f8 | |
| 79 | 4 | g5 | |
| 80 | 2 | g5 | |
| 81 | 3 | f8 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | +8° | 29′13 | 14′ | 37.7 | + 8′ | 19.3 | 8.3 | ✓ |
| 56 | +8° | 29′14 | 14′ | 38.5 | + 8′ | 46.9 | 7.5 | ✓ |
| 57 | +7° | 28′41 | 14 | 39.6 | +7′ | 53.8 | 8.0 | ✓ |
| 58 | +8° | 29′19 | 14″ | 40.0 | + 8′ | 49.4 | 8.7 | ✓ |
| 59 | +9° | 29′42 | 14″ | 40.2 | +9′ | 6.7 | 8.9 | ✓ |
| 60 | +8° | 29′23 | 14′ | 42.0 | + 8′ | 32.6 | 8.6 | ✓ |
| 61 | +8° | 29′26 | 14′ | 42.6 | + 8′ | 38.7 | 7.5 | ✓ |
| 62 | +7° | 28′43 | 14′ | 40.9 | + 7′ | 57.1 | 9.0 | ✓ |
| 63 | +7° | 28′45 | 14′ | 41.3 | + 7′ | 49.2 | 8.5 | ✓ |
| 64 | +12° | 26′77 | 14′ | 10.6 | +12′ | 0.9 | 7.7 | ✓ |
| 65 | +11° | 26′62 | 14′ | 11.5 | +11′ | 11.1 | 7.0 | ✓ |
| 66 | +12° | 26′81 | 14′ | 12.8 | +12′ | 13.1 | 9.1 | ✓ |
| 67 | +12° | 26′84 | 14′ | 14.4 | +12′ | 18.3 | 8.0 | ✓ |
| 68 | +11° | 26′67 | 14′ | 14.2 | +11′ | 30.2 | 7.8 | ✓ |
| 69 | +11° | 26′71 | 14′ | 16.0 | +11′ | 10.7 | 9.4 | ✓ |
| 70 | Nitrit Cap | Upper | 14 | 16.3 | + 12 | 19 | | ✓ |
| 71 | +12° | 26′91 | 14′ | 16.7 | +12′ | 17.0 | 9.0 | ✓ |
| 72 | +11° | 26′73 | 14′ | 17.1 | +11′ | 54.5 | 7.0 | ✓ |
| 73 | +11° | 26′74 | 14′ | 17.1 | +11′ | 35.5 | 9.0 | ✓ |
| 74 | +11° | 26′76 | 14′ | 17.3 | +11′ | 16.9 | 9.0 | ✓ |
| 75 | +12° | 26′94 | 14′ | 19.1 | +12′ | 15.1 | 9.3 | ✓ |
| 76 | +12° | 26′95 | 14′ | 19.8 | +12′ | 6.6 | 9.1 | ✓ |
| 77 | +13° | 27′98 | 14′ | 20.2 | +13′ | 2.7 | 8.1 | ✓ |
| 78 | +12° | 26′97 | 14′ | 20.8 | +12′ | 45.0 | 9.1 | ✓ |
| 79 | +12° | 27′00 | 14′ | 22.0 | +12′ | 46.0 | 8.3 | ✓ |
| 80 | +13° | 28′00 | 14′ | 22.4 | +13′ | 56.7 | 8.8 | ✓ |
| 81 | +14° | 27′42 | 14′ | 23.7 | +14′ | 11.0 | 8.7 | ✓ |

Cards made out

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

Saturday, May 18, 1912.

I 37719

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 2 | ly5 | |
| 83 | 6 | F5 | |
| 84 | 8 | F5 | |
| 85 | 3 | K5 | |
| 86 | 2 | F8 | |
| 87 | 2 | K0 | |
| 88 | 2 | ly5 | |
| 89 | 8 | A3 | |
| 90 | 2 | F8 | |
| 91 | 1 | K | |
| 92 | 2 | ly0 | |
| 93 | 3 | ly0 | |
| 94 | 8 | A0 | |
| 95 | 1 | ly | |
| 96 | 3 | ly0 | |
| 97 | 3 | F8 | |
| 98 | 2 | ly5 | |
| 99 | 7 | A3 | |
| 100 | 3 | ly5 | |
| 101 | 1 | ly | |
| 102 | 10 | ly5 | |
| 103 | 1 | ly | |
| 104 | 4 | K0 | |
| 105 | 3 | F8 | |
| 106 | 2 | A3 | |
| 107 | 4 | K0 | |
| 108 | 2 | ly5 | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | +13° | 2802 | 14h | 23.0 | +13′ | 14.3 | 9.2 ✓ |
| 83 | +13° | 2808 | 14h | 24.7 | +13′ | 29.9 | 7.5 ✓ |
| 84 | +14° | 2746 | 14h | 25.9 | +14′ | 43.3 | 7.0 ✓ |
| 85 | +14° | 2747 | 14h | 26.0 | +14′ | 29.0 | 8.2 ✓ |
| 86 | +14° | 2751 | 14h | 26.6 | +14′ | 52.8 | 9.0 ✓ |
| 87 | +13° | 2811 | 14h | 26.8 | +13′ | 57.6 | 8.7 ✓ |
| 88 | +14° | 2754 | 14h | 27.7 | +14′ | 12.8 | 8.7 ✓ |
| 89 | +13° | 2814 | 14h | 28.1 | +13′ | 45.2 | 7.0 ✓ |
| 90 | +12° | 2707 | 14h | 26.3 | +12′ | 6.4 | 8.9 ✓ |
| 91 | +13° | 2817 | 14h | 29.1 | +13′ | 11.7 | 9.1 ✓ |
| 92 | +12° | 2715 | 14h | 28.9 | +12′ | 35.8 | 9.1 ✓ |
| 93 | +12° | 2717 | 14h | 29.7 | +12′ | 47.8 | 8.8 ✓ |
| 94 | +13° | 2820 | 14h | 29.8 | +13′ | 30.4 | 7.2 ✓ |
| 95 | +13° | 2822 | 14h | 30.5 | +13′ | 33.9 | 9.2 ✓ |
| 96 | +13° | 2826 | 14h | 31.2 | +13′ | 25.6 | 8.5 ✓ |
| 97 | +12° | 2720 | 14h | 31.4 | +12′ | 17.4 | 8.7 ✓ |
| 98 | +12° | 2723 | 14h | 33.3 | +12′ | 42.7 | 9.1 ✓ |
| 99 | +12° | 2724 | 14h | 33.7 | +12′ | 54.0 | 8.6 ✓ |
| 100 | +12° | 2725 | 14h | 34.2 | +12′ | 43.7 | 8.1 ✓ |
| 101 | +12° | 2727 | 14h | 34.3 | +12′ | 56.6 | 9.2 ✓ |
| 102 | +12° | 2729 | 14h | 34.8 | +12′ | 15.5 | 5.3 ✓ |
| 103 | +11° | 2708 | 14h | 34.9 | +11′ | 32.3 | 9.0 ✓ |
| 104 | +11° | 2709 | 14h | 35.3 | +11′ | 42.8 | 8.0 ✓ |
| 105 | +10° | 2720 | 14h | 33.1 | +10′ | 30.6 | 8.4 ✓ |
| 106 | +10° | 2721 | 14h | 33.2 | +10′ | 24.8 | 8.8 ✓ |
| 107 | +9° | 2928 | 14h | 33.6 | +9′ | 36.1 | 8.0 ✓ |
| 108 | +9° | 2929 | 14h | 33.9 | +9′ | 59.3 | 8.8 ✓ |

cards made out

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

Saturday, May 18, 1912.

I 37719

| No. | Int. | Class | Remark |
|---|---|---|---|
| 109 | 4 | $Ly^5$ | |
| 110 | 3 | $F^5$ | |
| 111 | 1 | K | |
| 112 | 5 | $F^5$ | |
| 113 | 6 | $Ly^5$ | |
| 114 | 2 | $F^8$ | |
| 115 | 3 | $F^8$ | |
| 116 | 5 | $F^5$ | |
| 117 | 5 | $F^8$ | |
| 118 | 1 | $K^0$ | |
| 119 | 2 | $F^8$ | |
| 120 | 3 | $Ly^5$ | |
| 121 | 1 | K | |
| 122 | 2 | $Ly^5$ | |
| 123 | 6 | $K^0$ | E. |
| 124 | 3 | $K^0$ | E. |
| 125 | 8 | $A^2$ | E. |
| 126 | 6 | Ly | E. |
| 127 | 8 | $K^5$ | E. |
| 128 | 10 | K | E. |
| 129 | 2 | K | E. |
| 130 | 2 | $K^2$ | E. |
| 131 | 10 | $F^2$ | |
| 132 | 2 | $K^0$ | |
| 133 | 3 | F | |
| 134 | 3 | Ly | |
| 135 | 3 | $F^8$ | |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 109 | +10° | 27 26 | 14 | 34.7 | +10 | 8.7 | 8.2 ✓ |
| 110 | +10° | 27 29 | 14 | 36.0 | +10 | 52.3 | 8.6 ✓ |
| 111 | +11° | 27 11 | 14 | 36.5 | +11 | 11.8 | 8.7 ✓ |
| 112 | +11° | 27 14 | 14 | 37.6 | +11 | 23.1 | 8.0 ✓ |
| 113 | +11° | 27 18 | 14 | 38.4 | +11 | 13.0 | 6.5 ✓ |
| 114 | +11° | 27 19 | 14 | 38.6 | +11 | 8.5 | 8.6 ✓ |
| 115 | +10° | 27 36 | 14 | 37.4 | +10 | 34.8 | 8.5 ✓ |
| 116 | +10° | 27 37 | 14 | 38.9 | +10 | 40.0 | 7.5 ✓ |
| 117 | +10° | 27 39 | 14 | 39.2 | +10 | 15.5 | 7.5 ✓ |
| 118 | +9° | 29 38 | 14 | 37.6 | +9 | 58.6 | 8.5 ✓ |
| 119 | +9° | 29 37 | 14 | 37.6 | +9 | 41.7 | 8.7 ✓ |
| 120 | +10° | 27 42 | 14 | 40.4 | +10 | 54.8 | 8.3 ✓ |
| 121 | +11° | 27 27 | 14 | 42.1 | +11 | 8.8 | 8.8 ✓ |
| 122 | +10° | 27 47 | 14 | 42.2 | +10 | 49.7 | 8.5 ✓ |
| 123 | +10° | 27 48 | 14 | 42.4 | +10 | 39.4 | 7.0 ✓ |
| 124 | +10° | 27 49 | 14 | 42.7 | +10 | 48.5 | 7.5 ✓ |
| 125 | +11° | 27 30 | 14 | 42.8 | +11 | 6.9 | 7.4 ✓ |
| 126 | +10° | 27 52 | 14 | 44.0 | +10 | 19.4 | 7.6 ✓ |
| 127 | +15° | 26 90 | 14 | 10.6 | +15 | 56.1 | 6.2 ✓ |
| 128 | +16° | 26 37 | 14 | 12.9 | +16 | 58.2 | 5.3 ✓ |
| 129 | +15° | 26 95 | 14 | 12.5 | +15 | 36.0 | 8.2 ✓ |
| 130 | +14° | 27 22 | 14 | 10.9 | +14 | 34.5 | 8.5 ✓ |
| 131 | +13° | 27 82 | 14 | 12.3 | +13 | 40.9 | 5.7 ✓ |
| 132 | +14° | 27 25 | 14 | 13.6 | +14 | 34.5 | 8.8 ✓ |
| 133 | +14° | 27 ~~88~~ 28 | 14 | 15.3 | +14 | ~~39.9~~ 39.0 | 9.~~8~~ ✓ |
| 134 | +13° | 27 84 | 14 | 14.6 | +13 | 24.1 | 8.7 ✓ |
| 135 | +13° | 27 88 | 14 | 14.9 | +13 | 9.1 | 8.7 ✓ |

Cards made out

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Saturday, May 18, 1912.
I 37719

| No. | Int. | Class | Remark |
|---|---|---|---|
| 136 | 2 | Ly0 | |
| 137 | 4 | Ly5 | |
| 138 | 2 | F5 | |
| 139 | 2 | K | |
| 140 | 3 | A0 | |
| 141 | 5 | K0 | |
| 142 | 2 | Ly | |
| 143 | 7 | Comp. | Bu = Ly F8. = A. |
| 144 | 3 | F8 | E. |
| 145 | 2 | Ly | E. |
| 146 | 5 | Ly5 | E. |
| 147 | 6 | A3 | Poor focus. |
| 148 | 3 | F5 | |
| 149 | 2 | F8 | |
| 150 | 2 | Ly5 | |
| 151 | 4 | F5 | E. |
| 152 | 4 | Ly5 | |
| 153 | 4 | F0 | |
| 154 | 1 | K | |
| 155 | 2 | Ly5 | |
| 156 | 2 | Ly0 | |
| 157 | 10 | F0 | |
| 158 | 10+ | A0 | |
| 159 | 3 | F8 | |
| 160 | 8 | F0 | E. |
| 161 | 2 | F5 | E. |
| 162 | 4 | K0 | |



| | | | | | | |
|---|---|---|---|---|---|---|
| 136 +14° | 27 32.2 | 14° | 17.5 | +14° | 23.4 | 9.1 ✓ |
| 137 +14° | 27 33.1 | 14° | 19.1 | +14° | 5.4 | 8.0 ✓ |
| 138 +14° | 27 36.1 | 14° | 19.5 | +14° | 16.5 | 8.7 ✓ |
| 139 +14° | 27 34.1 | 14° | 19.1 | +14° | 44.3 | 8.5 ✓ |
| 140 +15° | 27 11.1 | 14° | 19.2 | +15° | 0.5 | 8.7 ✓ |
| 141 +15° | 27 14.1 | 14° | 20.6 | +15° | 24.2 | 7.0 ✓ |
| 142 +13° | 27 19.4 | 14° | 17.8 | +13° | 12.6 | 9.3 ✓ |
| 143 +16° | 26 42.1 | 14° | 17.3 | +16° | 56.3 | 7.3 ✓ |
| 144 +17° | 27 37.1 | 14° | 19.9 | +17° | 4.4 | 7.8 ✓ |
| 145 +17° | 27 38.1 | 14° | 21.1 | +17° | 12.9 | 8.6 ✓ |
| 146 +16° | 26 52.2 | 14° | 21.4 | +16° | 47.1 | 7.7 ✓ |
| 147 +15° | 27 02.1 | 14° | 18.9 | +15° | 36.1 | 7.7 ✓ |
| 148 +16° | 28 49.1 | 14° | 20.2 | +16° | 9.1 | 8.7 ✓ |
| 149 +16° | 26 53.1 | 14° | 21.4 | +16° | 19.2 | 8.7 ✓ |
| 150 +15° | 27 24.1 | 14° | 23.3 | +15° | 19.3 | 8.5 ✓ |
| 151 +17° | 27 54.1 | 14° | 25.7 | +17° | 11.6 | 8.3 ✓ |
| 152 +14° | 27 61.1 | 14° | 31.4 | +14° | 39.5 | 8.8 ✓ |
| 153 +14° | 27 64.1 | 14° | 31.8 | +14° | 55.2 | 9.0 ✓ |
| 154 +14° | 27 62.2 | 14° | 31.6 | +14° | 28.2 | 9.2 ✓ |
| 155 +14° | 27 67.1 | 14° | 33.3 | +14° | 28.8 | 9.2 ✓ |
| 156 +13° | 28 28.1 | 14° | 33.6 | +13° | 51.8 | 9.0 ✓ |
| 157 +14° | 27 69.1 | 14° | 33.8 | +14° | 9.4 | 6.5 ✓ |
| 158 +14° | 27 70.1 | 14° | 34.2 | +14° | 22.2 | 3.5 ✓ |
| 159 +14° | 27 71.1 | 14° | 34.6 | +14° | 13.6 | 8.5 ✓ |
| 160 +15° | 27 49.1 | 14° | 35.9 | +15° | 20.4 | 6.7 ✓ |
| 161 +15° | 27 52.1 | 14° | 37.0 | +15° | 0.5 | 8.6 ✓ |
| 162 +14° | 29 79.1 | 14° | 38.6 | +14° | 28.1 | 7.8 ✓ |

Cards made out

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

Saturday, May 18, 1912
I 37719

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 163 | 6 | K0 | |
| 164 | 4 | F8 | |
| 165 | 3 | G5 | |
| 166 | 2 | G5 | |
| 167 | 4 | G0 | |
| 168 | 5 | K2 | |
| 169 | 2 | Ma | |
| 170 | 3 | G | E. |
| 171 | 3 | Ma | |
| 172 | 9 | Mb | |
| 173 | 3 | K0 | |

Time: 10.55



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 163 | +13° | 28'38 | 14' | 38'.9 | +13' | 44'.2 | 7'.2 ✓ |
| 164 | +12° | 27'35 | 14' | 38'.8 | +12' | 32'.0 | 8'.3 ✓ |
| 165 | +12° | 27'40 | 14' | 40'.0 | +12' | 5'.6 | 8'.5 ✓ |
| 166 | +12° | 27'41 | 14' | 40'.2 | +12' | 2'.1 | 8'.6 ✓ |
| 167 | +12° | 27'51 | 14' | 43'.1 | +12' | 55'.6 | 7'.8 ✓ |
| 168 | +13° | 28'52 | 14' | 43'.2 | +13' | 23'.1 | 7'.5 ✓ |
| 169 | +12° | 27'53 | 14' | 44'.1 | +12' | 46'.4 | 8'.0 ✓ |
| 170 | +15° | 27'57 | 14' | 39'.0 | +15' | 15'.6 | 8'.3 ✓ |
| 171 | +15° | 27'60 | 14' | 39'.4 | +15' | 7'.5 | 7'.6 ✓ |
| 172 | +15° | 27'58 | 14' | 39'.3 | +15' | 44'.9 | 5'.5 ✓ |
| 173 | +15° | 27'62 | 14' | 39'.7 | +15' | 28'.7 | 7'.5 ✓ |

Identified by AMC June 26, 1912
Checked by J. B. W. Aug. 31, 1912
cards made out by M. C. W.
Cards checked by AMC.

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

Monday, May 20, 1912

Time: 10. 46

B 10629 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 8 | A | E. |
| 2 | 4 | A | E. |
| 3 | 3 | K2 | E. |
| 4 | 3 | ly5 | |
| 5 | 5 | ly0 | |
| 6 | 4 | ly0 | |
| 7 | 4 | ly0 | |
| 8 | 6 | K0 | |
| 9 | 2 | ly | |
| 10 | 6 | F | E. |
| 11 | 4 | ly | E. |
| 12 | 3 | F5 | E. |
| 13 | 2 | K | |
| 14 | 1 | ly | |
| 15 | 4 | K0 | |
| 16 | 5 | ly5 | |
| 17 | 5 | K5 | |
| 18 | 1 | ly | |
| 19 | 1 | K | |
| 20 | 2 | ly0 | |
| 21 | 8 | F5 | |
| 22 | 1 | K | |
| 23 | 6 | A2 | |
| 24 | 4 | ly0 | |
| 25 | 3 | ly0 | |
| 26 | 3 | F5 | |
| 27 | 1 | K5 | Confirm Forbes plate on B40863, much better for faint stars |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -19° | 147 | 0° | 50.5 | -19 | 46.7 | 7.2 | ✓ |
| 2 | -20° | 167 | 0 | 49.3 | -20 | 13.9 | 7.8 | ✓ |
| 3 | -20° | 174 | 0 | 51.6 | -20 | 25.1 | 7.0 | ✓ |
| 4 | -20° | 175 | 0 | 51.9 | -20 | 6.8 | 7.8 | ✓ |
| 5 | -20° | 179 | 0 | 53.3 | -20 | 10.2 | 8.0 | ✓ |
| 6 | -20° | 183 | 0 | 54.6 | -20 | 11.8 | 8.0 | ✓ |
| 7 | -20° | 186 | 0 | 55.0 | -20 | 26.7 | 8.2 | ✓ |
| 8 | -20° | 181 | 0 | 53.5 | -20 | 52.5 | 7.2 | ✓ |
| 9 | -21° | 149 | 0 | 53.2 | -21 | 3.8 | 8.5 | ✓ |
| 10 | -21° | 141 | 0 | 50.8 | -21 | 27.1 | 7.2 | ✓ |
| 11 | -21° | 136 | 0 | 48.9 | -21 | 29.6 | 7.8 | ✓ |
| 12 | -21° | 142 | 0 | 51.0 | -21 | 57.9 | 8.2 | ✓ |
| 13 | -21° | 148 | 0 | 53.0 | -21 | 60.7 | 9.0 | ✓ |
| 14 | -22° | 179 | 0 | 54.4 | -22 | 13.7 | 9.1 | ✓ |
| 15 | -22° | 182 | 0 | 55.1 | -22 | 23.3 | 8.0 | ✓ |
| 16 | -22° | 183 | 0 | 55.3 | -22 | 23.3 | 8.0 | ✓ |
| 17 | -22° | 193 | 0 | 58.8 | -22 | 20.3 | 8.2 | ✓ |
| 18 | -22° | 195 | 0 | 59.3 | -22 | 27.5 | 9.0 | ✓ |
| 19 | -22° | 203 | 0 | 1.0 | -22 | 23.4 | 8.7 | ✓ |
| 20 | -21° | 162 (8) | 0 | 57.7 (6) | -21 | 49.3 (6 1) | 9.0 | ✓ |
| 21 | -21° | 165 | 0 | 57.7 | -21 | 30.7 | 7.6 | ✓ |
| 22 | -21° | 158 | 0 | 56.6 | -21 | 18.9 | 9.0 | ✓ |
| 23 | -20° | 191 | 0 | 58.1 | -20 | 37.8 | 8.2 | ✓ |
| 24 | -20° | 196 | 0 | 59.2 | -20 | 50.0 | 8.5 | ✓ |
| 25 | -20° | 198 | 0 | 59.4 | -20 | 50.0 | 9.0 | ✓ |
| 26 | -20° | 194 | 0 | 58.9 | -20 | 21.7 | 8.5 | ✓ |
| 27 | -20° | 192 | 0 | 58.5 | -20 | 20.8 | 9.0 | ✓ |

cards made out.

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

Monday, May 20, 1912

B 1062 ghost disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 4 | A3 | |
| 29 | 3 | fg0 | |
| 30 | 4 | A | |
| 31 | 2 | Fk0 | |
| 32 | 3 | fg0 | |
| 33 | 5 | fg5 | |
| 34 | 3 | fg5 | Another star superposed ? |
| 35 | 2 | fg | |
| 36 | 3 | fg5 | |
| 37 | 5 | K2 | |
| 38 | 2 | fg5 | |
| 39 | 7 | F5 | |
| 40 | 1 | F5 | |
| 41 | 2 | fg5 | |
| 42 | 4 | F2 | |
| 43 | 2 | fg | |
| 44 | 4 | F5 | |
| 45 | 5 | F5 | |
| 46 | 2 | fg | |
| 47 | 2 | fg0 | |
| 48 | 2 | fg0 | |
| 49 | 2 | F5 | |
| 50 | 6 | fg5 | |
| 51 | 6 | K0 | |
| 52 | 8 | fg0 | |
| 53 | 4 | K2 | |
| 54 | 2 | fg | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -19° | 178 | 0 | 59.0 | -19 | 36.6 | 8.7 | J |
| 29 | -19° | 171 | 0 | 57.6 | -19 | 5.8 | 8.5 | J |
| 30 | -19° | 168 | 0 | 56.9 | -19 | 20.9 | 8.5 | J |
| 31 | -19° | 155 | 0 | 54.0 | -19 | 37.3 | 8.0 | J |
| 32 | -19° | 180 | 0 | 0.3 | -19 | 55.2 | 8.9 | J |
| 33 | -20° | 203 | 1 | 0.6 | -20 | 4.9 | 8.0 | J |
| 34 | -19° | 186 | 0 | 1.3 | -19 | 56.4 | 8.3 | J |
| 35 | -20° | 207 | 1 | 1.9 | -20 | 9.2 | 9.0 | J |
| 36 | -20° | 209 | 1 | 2.4 | -20 | 9.9 | 8.4 | J |
| 37 | -19° | 195 | 0 | 3.9 | -19 | 34.3 | 7.0 | J |
| 38 | -20° | 208 (10) | 1 | 2.7 (6) | -20 | 59.8 | 9.0 | J |
| 39 | -21° | 188 | 1 | 5.5 | -21 | 13.4 | 7.3 | J |
| 40 | -20° | 214 | 1 | 4.3 | -20 | 21.4 | 8.8 | J |
| 41 | -20° | 220 | 1 | 6.6 | -20 | 46.8 | 8.5 | J |
| 42 | -21° | 191 | 1 | 6.8 | -21 | 17.1 | 8.1 | J |
| 43 | -20° | 223 | 1 | 8.0 | -20 | 27.2 | 8.6 | J |
| 44 | -20° | 227 | 1 | 9.0 | -20 | 34.4 | 8.3 | J |
| 45 | -20° | 229 | 1 | 9.7 | -20 | 52.5 | 8.3 | J |
| 46 | -19° | 200 | 1 | 6.4 | -19 | 55.9 | 8.9 | J |
| 47 | -19° | 214 | 1 | 10.3 | -19 | 47.3 | 9.0 | J |
| 48 | -19° | 212 | 1 | 10.2 | -19 | 37.5 | 9.0 | J |
| 49 | -19° | 216 | 1 | 10.6 | -19 | 30.7 | 9.1 | J |
| 50 | -20° | 235 | 1 | 11.5 | -20 | 7.5 | 7.8 | J |
| 51 | -20° | 234 | 1 | 11.4 | -20 | 57.4 | 7.5 | J |
| 52 | -20° | 249 | 1 | 13.4 | -20 | 42.2 | 7.3 | V |
| 53 | -21° | 215 | 1 | 13.1 | -21 | 14.0 | 7.3 | J |
| 54 | -22° | 227 | 1 | 12.8 | -22 | 12.8 | 8.6 | J |

Cards made out

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Monday May 20 1912

B 10629 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 3 | fg5 | |
| 56 | 7 | F2 | |
| 57 | 4 | K0 | |
| 58 | 5 | F5 | |
| 59 | 2 | F5 | Difficult. |
| 60 | 3 | F8 | |
| 61 | 3 | K0 | |
| 62 | 3 | fg0 | |
| 63 | 2 | fg | |
| 64 | 10 | F5 | |
| 65 | 2 | K0 | |
| 66 | 2 | fg | |
| 67 | 2 | K | |
| 68 | 2 | fg? | Lothar Lee B 40883 |
| 69 | 2 | fg0 | |
| 70 | 4 | fg5 | |
| 71 | 3 | fg5 | |
| 72 | 6 | K0 | |
| 73 | 9 | F2 | |
| 74 | 5 | fg5 | |
| 75 | 3 | F5 | |
| 76 | 4 | F5 | Focus poor. |
| 77 | 6 | fg5 | |
| 78 | 4 | fg5 | |
| 79 | 3 | K0 | |
| 80 | 3 | F5 | |
| 81 | 7 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | -22° | 235 | 1 | 15.1 | -22 | 17.6 | 8.0 | J |
| 56 | -22° | 237 | 1 | 15.7 | -22 | 11.0 | 7.9 | J |
| 57 | -21° | 225 | 1 | 16.1 | -21 | 53.1 | 8.0 | J |
| 58 | -21° | 223 | 1 | 15.9 | -21 | 29.6 | 7.8 | J |
| 59 | -21° | 227 | 1 | 16.4 | -21 | 5.2 | 8.9 | J |
| 60 | -20° | 259 | 1 | 16.4 | -20 | 20.9 | 8.8 | J |
| 61 | -20° | 262 | 1 | 17.3 | -20 | 17.5 | 8.2 | J |
| 62 | -20° | 256 | 1 | 15.3 | -20 | 20.4 | 8.5 | J |
| 63 | -19° | 227 | 1 | 14.8 | -19 | 43.4 | 8.8 | J |
| 64 | -19° | 229 | 1 | 15.5 | -19 | 50.2 | 6.9 | J |
| 65 | -19° | 228 | 1 | 15.4 | -19 | 33.8 | 8.5 | J |
| 66 | -19° | 232 | 1 | 16.0 | -19 | 40.4 | 8.9 | J |
| 67 | -19° | 235 | 1 | 16.3 | -19 | 11.5 | 8.7 | J |
| 68 | -19° | 236 | 1 | 16.5 | -19 | 13.9 | 9.1 | J |
| 69 | -19° | 238 | 1 | 16.9 | -19 | 38.6 | 9.1 | J |
| 70 | -20° | 269 | 1 | 19.8 | -20 | 24.0 | 8.3 | J |
| 71 | -20° | 271 | 1 | 21.0 | -20 | 33.3 | 8.5 | J |
| 72 | -21° | 235 | 1 | 20.1 | -21 | 14.4 | 6.8 | J |
| 73 | -21° | 237 | 1 | 20.4 | -21 | 5.9 | 7.0 | J |
| 74 | -21° | 238 | 1 | 21.1 | -21 | 10.8 | 7.5 | J |
| 75 | -20° | 274 | 1 | 22.4 | -20 | 27.8 | 8.9 | J |
| 76 | -20° | 275 | 1 | 22.6 | -20 | 34.1 | 9.0 | J |
| 77 | -20° | 277 | 1 | 23.0 | -20 | 20.7 | 8.5 | J |
| 78 | -22° | 240 | 1 | 17.2 | -22 | 42.3 | 8.6 | J |
| 79 | -22° | 241 | 1 | 17.3 | -22 | 30.5 | 8.5 | J |
| 80 | -21° | 229 | 1 | 17.7 | -21 | 51.1 | 8.8 | J |
| 81 | -23° | 520 | 1 | 20.1 | -23 | 27.3 | 7.1 | J |

Cards made out

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Monday, May 20, 1912
B 10629 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 9 | Ko | |
| 83 | 9 | ky5 | |
| 84 | 10+ | A | |
| 85 | 2 | K | |
| 86 | 3 | ky0 | |
| 87 | 2 | ky0 | |
| 88 | 5 | ky0 | |
| 89 | 3 | Ko | |
| Faint: 11.03 90 | 4 | A | |
| 91 | | | |
| 92 | | | |
| 93 | | | |
| 91 94 | | | |
| 95 | | | |
| 91 | 1 | Go | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 82 | -22° | 503 | 1 | 21.4 | -22 | 58.8 | 6.6 | J |
| 83 | -22° | 251 | 1 | 21.0 | -22 | 47.5 | 7.0 | J |
| 84 | -22° | 254 | 1 | 22.6 | -22 | 22.1 | 5.0 | J |
| 85 | -22° | 252 | 1 | 21.2 | -22 | 18.4 | 8.5 | J |
| 86 | -23° | 529 | 1 | 22.5 | -23 | 24.8 | 8.9 | J |
| 87 | -22° | 508 | 1 | 22.1 | -22 | 59.2 | 8.6 | J |
| 88 | -23° | 539 | 1 | 24.0 | -23 | 10.3 | 7.7 | J |
| 89 | -23° | 543 | 1 | 24.6 | -23 | 82.7 | 8.1 | J |
| 90 | -24° | 624 | 1 | 21.7 | -24 | 39.4 | 8.8 | J |

Identified by M. C. W. Aug. 20, 1912.
Checked by AME. Aug. 20, 1912
cards made out by M. C. W.

v 91 -25 387 0 54.8 -25 7 8.0 Rho 133 in B12238

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

Monday May 20, 1912

Time: 11.21

B 10601 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 8. | A3 | |
| 2 | 4 | K0 | Partly superposed on 1. |
| 3 | 3 | fg5 | |
| 4 | 3 | K2 | |
| 5 | 2 | K0 | |
| 6 | 5 | K2 | |
| 7 | 2 | F | |
| 8 | 1 | fg | Difficult. |
| 9 | 3 | A2 | |
| 10 | 2 | F2 | |
| 11 | 7 | F8 | |
| 12 | 2 | fg5 | |
| 13 | 3 | K0 | |
| 14 | 3 | K0 | |
| 15 | 2 | fg | E. |
| 16 | 3 | F | E. |
| 17 | 7 | fg5 | |
| 18 | 8 | A5 | |
| 19 | 4 | K0 | |
| 20 | 6 | fg0 | |
| 21 | 7 | F5 | |
| 22 | 1 | fg | |
| 23 | 3 | fg5 | |
| 24 | 3 | fg0 | |
| 25 | 2 | A0 | |
| 26 | 2 | A | |
| 27 | 1 | fg | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -19° | 262 | 1 | 24.6 | -19 | 45.7 | 7.0 | ∧ ↓ |
| 2 | -19° | 263 | 1 | 24.6 | -19 | 46.7 | 8.0 | ∧ ↓ |
| 3 | -19° | 265 | 1 | 25.3 | -19 | 18.6 | 8.2 | ∧ ↓ |
| 4 | -19° | 266 | 1 | 25.6 | -19 | 43.1 | 7.7 | ∧ ↓ |
| 5 | -19° | 270 | 1 | 26.1 | -19 | 38.9 | 8.4 | ∧ ↓ |
| 6 | -19° | 269 | 1 | 26.1 | -19 | 54.1 | 7.5 | ∧ ↓ |
| 7 | -20° | 282 | 1 | 24.4 | -20 | 32.9 | 8.8 | ∧ ↓ |
| 8 | -20° | 285 | 1 | 25.4 | -20 | 21.1 | 8.7 | ∧ ↓ |
| 9 | -20° | 290 | 1 | 26.4 | -20 | 50.9 | 8.8 | ∧ ↓ |
| 10 | -21° | 241 | 1 | 24.2 | -21 | 51.8 | 8.7 | ∧ ↓ |
| 11 | -21° | 252 | 1 | 26.9 | -21 | 46.5 | 7.8 | ∧ ↓ |
| 12 | -21° | 259 | 1 | 28.4 | -21 | 56.5 | 8.5 | ∧ ↓ |
| 13 | -21° | 264 | 1 | 29.2 | -21 | 15.4 | 7.8 | ∧ ↓ |
| 14 | -20° | 298 | 1 | 30.3 | -20 | 6.5 | 7.8 | ∧ ↓ |
| 15 | -18° | 248 | 1 | 24.2 | -18 | 26.0 | 8.3 | ∧ ↓ |
| 16 | -18° | 251 | 1 | 25.1 | -18 | 17.0 | 8.3 | ∧ ↓ |
| 17 | -18° | 266 | 1 | 28.8 | -18 | 16.1 | 6.8 | ∧ ↓ |
| 18 | -18° | 279 | 1 | 32.3 | -18 | 31.6 | 7.3 | ∧ ↓ |
| 19 | -18° | 280 | 1 | 32.8 | -18 | 17.4 | 7.8 | ∧ ↓ |
| 20 | -18° | 287 | 1 | 35.2 | -18 | 37.7 | 7.2 | ∧ ↓ |
| 21 | -19° | 292 | 1 | 35.1 | -19 | 55.4 | 7.5 | ∧ ↓ |
| 22 | -20° | 310 | 1 | 34.1 | -20 | 15.1 | 9.0 | ∧ ↓ |
| 23 | -20° | 316 | 1 | 35.6 | -20 | 5.1 | 8.2 | ∧ ↓ |
| 24 | -20° | 324 | 1 | 36.6 | -20 | 3.1 | 8.3 | ∧ ↓ |
| 25 | -20° | 309 | 1 | 33.7 | -20 | 49.8 | 8.7 | ∧ ↓ |
| 26 | -21° | 278 | 1 | 33.9 | -21 | 5.7 | 8.7 | ∧ ↓ |
| 27 | -20° | 311 | 1 | 37.4 | -20 | 40.3 | 8.7 | ∧ ↓ |

Cards made out

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Monday May 20, 1912
B1060 shut disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 5 | K0 | |
| 29 | 5 | ly0 | |
| 30 | 2 | ly0 | |
| 31 | 7 | K0 | |
| 32 | 4 | F | E. |
| 33 | 5 | A0 | |
| 34 | 3 | F | Focus poor. |
| 35 | 3 | K0 | |
| 36 | 2 | F8 | |
| 37 | 4 | Ma | |
| 38 | 8 | A3 | |
| 39 | 7 | ly5 | |
| 40 | 7 | K0 | |
| 41 | 3 | F5 | |
| 42 | 4 | F5 | |
| 43 | 9 | A0 | |
| 44 | 10 | F | E. |
| 45 | 9 | F0 | |
| 46 | 4 | F0 | |
| 47 | 2 | K0 | |
| 48 | 4 | ly5 | |
| 49 | 3 | ly0 | |
| 50 | 3 | F2 | |
| 51 | 2 | ly5 | |
| 52 | 3 | K0 | |
| 53 | 4 | A0 | |
| 54 | 2 | ly | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | −20° | 318 | 1 | 35.7 | −20 | 54.5 | 7.0 | ∧ ∨ |
| 29 | −21° | 288 | 1 | 37.5 | −21 | 18.6 | 7.6 | ∧ ∨ |
| 30 | −20° | 330 | 1 | 37.9 | −20 | 52.7 | 8.5 | ∧ ∨ |
| 31 | −21° | 300 | 1 | 40.8 | −21 | 33.9 | 6.4 | ∧ ∨ |
| 32 | −21° | 306 | 1 | 41.6 | −21 | 21.9 | 8.5 | ∧ ∨ |
| 33 | −23° | 556 | 1 | 26.8 | −23 | 2.9 | 8.1 | ∧ ∨ |
| 34 | −23° | 589 | 1 | 30.4 | −23 | 4.2 | 8.5 | ∧ ∨ |
| 35 | −23° | 591 | 1 | 30.8 | −23 | 4.2 | 8.0 | ∧ ∨ |
| 36 | −23° | 614 | 1 | 33.2 | −23 | 45.7 | 8.3 | ∧ ∨ |
| 37 | −23° | 620 | 1 | 34.0 | −23 | 32.7 | 7.1 | ∧ ∨ |
| 38 | −24° | 651 | 1 | 26.2 | −24 | 17.2 | 7.2 | ∧ ∨ |
| 39 | −24° | 658 | 1 | 27.3 | −24 | 48.6 | 7.0 | ∧ ∨ |
| 40 | −24° | 666 | 1 | 28.9 | −24 | 20.5 | 6.7 | ∧ ∨ |
| 41 | −24° | 669 | 1 | 29.2 | −24 | 5.2 | 8.5 | ∧ ∨ |
| 42 | −25° | 660 | 1 | 38.8 | −25 | 39.9 | 8.3 6.6 | ∧ ∨ |
| 43 | −25° | 670 | 1 | 33.0 | −25 | 39.3 | 6.6 | ∧ ∨ |
| 44 | −25° | 704 | 1 | 39.8 | −25 | 40.8 | 5.4 | ∧ ∨ |
| 45 | −22° | 272 | 1 | 31.9 | −22 | 0.5 | 6.0 | ∧ ∨ |
| 46 | −22° | 277 | 1 | 34.3 | −22 | 27.4 | 7.8 | ∧ ∨ |
| 47 | −22° | 280 | 1 | 34.5 | −22 | 52.5 | 8.5 | ∧ ∨ |
| 48 | −22° | 286 | 1 | 36.3 | −22 | 21.2 | 8.0 | ∧ ∨ |
| 49 | −22° | 790 | 1 | 38.6 | −22 | 43.2 | 8.0 | ∧ ∨ |
| 50 | −24° | 630 | 1 | 22.5 | −24 | 6.9 | 8.7 | ∧ ∨ |
| 51 | −24° | 635 | 1 | 23.0 | −24 | 1.9 | 9.0 | ∧ ∨ |
| 52 | −24° | 634 | 1 | 22.9 | −24 | 28.0 | 8.1 | ∧ ∨ |
| 53 | −24° | 624 | 1 | 21.7 | −24 | 39.4 | 8.8 | ∧ ∨ |
| 54 | −24° | 633 | 1 | 22.8 | −24 | 58.8 | 8.3 | ∧ ∨ |

cards made out

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Monday, May 20, 1912
B10601 shot disp.

| Nr | Int. | Class | Remark |
|---|---|---|---|
| 55 | 8 | A3 | |
| 56 | 4 | F2 | |
| 57 | 8 | K0 | |
| 58 | 9 | K0 | |
| 59 | 7 | A3 | E. |
| 60 | 2 | K0 | |
| Time: 11.35 | 61 | 1 | F5 |
| | 62 | | |
| | 63 | | |
| | 64 | | |
| | 65 | | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | −25° | 597 | 1 | 22.9 | −25 | 26.8 | 6.9 | ∧ J |
| 56 | −25° | 585 | 1 | 21.7 | −25 | 58.9 | 8.1 | ∧ J |
| 57 | −26° | 491 | 1 | 23.8 | −26 | 16.2 | 6.6 | ∧ J |
| 58 | −26° | 502 | 1 | 24.5 | −26 | 51.3 | 6.2 | ∧ J |
| 59 | −27° | 522 | 1 | 26.5 | −27 | 11.4 | 8.0 | ∧ V |
| 60 | −26° | 527 | 1 | 27.4 | −26 | 18.5 | 7.8 | ∧ J |
| 61 | −25° | 620 | 1 | 25.3 | −25 | 15.0 | 9.0 | ∧ V |

Identified by ANC, July 9, 1912
Checked Aug. 29, 1912 HDW.
Cards made out by M. C. W.
Cards checked by ANC.

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Monday, May 20, 1912

Time: 11.36

B 2366 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 5 | Ky5 | |
| 2 | 2 | Ky5 | |
| 3 | 1 | K5 | |
| 4 | 6 | F0 | |
| 5 | 7 | A5 | |
| 6 | 6 | K0 | |
| 7 | 8 | F5 | |
| 8 | 4 | Ky5 | |
| 9 | 3 | K0 | |
| 10 | 4 | F2 | |
| 11 | 3 | K5 | |
| 12 | 7 | Bq | |
| 13 | 3 | K2 | E. |
| 14 | 8 | Bq | |
| 15 | 8 | F8 | |
| 16 | 9 | K0 | |
| 17 | 2 | K | |
| 18 | 8 | K0 | |
| 19 | 4 | F2 | |
| 20 | 6 | F2 | |
| 21 | 3 | Ky0 | |
| 22 | 4 | K2 | |
| 23 | 6 | F0 | |
| 24 | 5 | K0 | |
| 25 | 5 | F8 | |
| 26 | 2 | Ky | |
| 27 | 10 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -22° | 299 | 1 | 41.6 | -22 | 56.5 | 8.0 | ∧ ∫ |
| 2 | -22° | 606 | 1 | 43.3 | -22 | 59.7 | 8.7 | ∧ ∪ |
| 3 | -23° | 678 | 1 | 44.5 | -23 | 23.4 | 8.3 | ∧ ∫ |
| 4 | -22° | 305 | 1 | 44.8 | -22 | 53.1 | 8.1 | ∧ ∫ |
| 5 | -23° | 686 | 1 | 46.1 | -23 | 46.1 | 7.6 | ∧ ∨ |
| 6 | -24° | 751 | 1 | 40.8 | -24 | 38.4 | 8.0 | ∧ ∫ |
| 7 | -24° | 772 | 1 | 42.9 | -24 | 29.2 | 8.1 | ∧ ∫ |
| 8 | -24° | 781 | 1 | 44.5 | -24 | 23.3 | 8.4 | ∧ ∨ |
| 9 | -25° | 730 | 1 | 44.4 | -25 | 9.8 | 8.3 | ∧ ∫ |
| 10 | -25° | 733 | 1 | 46.4 | -25 | 2.5 | 8.7 | ∧ ∫ |
| 11 | -24° | 800 | 1 | 47.5 | -24 | 50.0 | 8.2 | ∧ ∫ |
| 12 | -25° | 741 | 1 | 46.5 | -25 | 39.4 | 8.4 | ∧ ∫ |
| 13 | -26° | 675 | 1 | 47.1 | -26 | 26.9 | 8.4 | ∧ ∨ |
| 14 | -26° | 758 | 1 | 49.5 | -25 | 58.9 | 8.3 | ∧ ∫ |
| 15 | -26° | 763 | 1 | 50.5 | -25 | 53.4 | 8.4 | ∧ ∫ |
| 16 | -26° | 704 | 1 | 51.2 | -26 | 14.1 | 7.3 | ∧ ∫ |
| 17 | -26° | 706 | 1 | 51.8 | -26 | 6.4 | 9.1 | ∧ ∫ |
| 18 | -25° | 756 | 1 | 49.3 | -25 | 30.4 | 6.9 | ∧ ∫ |
| 19 | -25° | 759 | 1 | 49.5 | -25 | 10.5 | 8.9 | ∧ ∫ |
| 20 | -24° | 810 | 1 | 49.4 | -24 | 46.2 | 8.3 | ∧ ∫ |
| 21 | -24° | 818 | 1 | 50.5 | -24 | 44.9 | 8.6 | ∧ ∫ |
| 22 | -24° | 819 | 1 | 50.5 | -24 | 50.7 | 8.4 | ∧ ∫ |
| 23 | -25° | 767 | 1 | 50.9 | -25 | 41.5 | 8.5 | ∧ ∫ |
| 24 | -24° | 827 | 1 | 51.5 | -24 | 36.4 | 8.2 | ∧ ∫ |
| 25 | -24° | 817 | 1 | 50.4 | -24 | 1.4 | 8.3 | ∧ ∫ |
| 26 | -24° | 823 | 1 | 51.0 | -24 | 12.4 | 8.7 | ∧ ∫ |
| 27 | -23° | 721 | 1 | 50.8 | -23 | 8.9 | 5.0 | ∧ ∫ |

1575 from CAM.

cards made out

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Monday, May 20, 1912.
B 12366 almost clusters

| No. | Int | Class | Remark |
|---|---|---|---|
| 28 | 5 | F5 | |
| 29 | 6 | lyr | |
| 30 | 8 | F5 | |
| 31 | 9 | Ma | |
| 32 | 10+ | Ma | Burned out. |
| 33 | 6 | A2 | |
| 34 | 10 | B8 | |
| 35 | 4 | K0 | |
| 36 | 2 | K0 | |
| 37 | 3 | K5 | Maybe Ma. |
| 38 | 4 | K0 | |
| 39 | 7 | F5 | |
| 40 | 8 | F5 | |
| 41 | 7 | K2 | |
| 42 | 3 | F5 | |
| 43 | 3 | A | |
| 44 | 3 | F8 | |
| 45 | 3 | K0 | |
| 46 | 10 | F0 | |
| 47 | 10 | F2 | |
| 48 | 5 | F5 | |
| 49 | 2 | ly | |
| 50 | 3 | K5 | |
| 51 | 7 | K2 | |
| 52 | 4 | B9 | |
| 53 | 2 | K1 | |
| 54 | 6 | F8 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -22° | 321 | 1 | 49.1 | -22 | 32.0 | 8.3 | ^ v |
| 29 | -22° | 325 | 1 | 51.0 | -22 | 36.9 | 8.0 | ^ / |
| 30 | -21° | 352 | 1 | 52.1 | -21 | 50.3 | 7.4 | ^ / |
| 31 | -21° | 356 | 1 | 52.9 | -21 | 31.6 | 6.0 | ^ / |
| 32 | -21° | 358 | 1 | 53.2 | -21 | 46.6 | 4.1 | ^ / |
| 33 | -22° | 334 | 1 | 53.7 | -22 | 46.9 | 8.2 | ^ / |
| 34 | -22° | 341 | 1 | 55.8 | -22 | 40.2 | 7.0 | ^ / |
| 35 | -22° | 343 | 1 | 56.3 | -22 | 36.6 | 7.8 | ^ / |
| 36 | -22° | 347 | 1 | 57.1 | -22 | 35.5 | 8.4 | ^ / |
| 37 | -22° | 345 | 1 | 57.0 | -22 | 3.3 | 8.4 | ^ / |
| 38 | -22° | 351 | 1 | 57.2 | -22 | 27.0 | 8.2 | ^ / |
| 39 | -22° | 352 | 1 | 57.2 | -22 | 51.3 | 8.0 | ^ / |
| 40 | -22° | 363 | 2 | 1.2 | -22 | 2.5 | 7.9 | ^ / |
| 41 | -23° | 799 | 2 | 3.3 | -23 | 34.1 | 7.4 | ^ / |
| 42 | -24° | 915 | 2 | 3.2 | -24 | 23.8 | 8.8 | ^ / |
| 43 | -24° | 918 | 2 | 3.4 | -24 | 21.1 | 8.7 | ^ v |
| 44 | -24° | 913 | 2 | 3.0 | -24 | 37.5 | 8.6 | ^ v |
| 45 | -24° | 917 | 2 | 3.3 | -24 | 57.5 | 8.5 | ^ / |
| 46 | -24° | 921 | 2 | 3.8 | -24 | 56.3 | 6.4 | ^ / |
| 47 | -23° | 737 | 1 | 53.2 | -23 | 31.8 | 7.5 | ^ v |
| 48 | -24° | 840 | 1 | 53.6 | -24 | 2.4 | 8.3 | ^ / |
| 49 | -23° | 750 | 1 | 54.8 | -23 | 50.8 | 8.9 | ^ / |
| 50 | -24° | 839 | 1 | 53.5 | -24 | 35.2 | 8.1 | ^ / |
| 51 | -25° | 789 | 1 | 54.9 | -25 | 1.0 | 7.0 | ^ / |
| 52 | -25° | 791 | 1 | 55.2 | -25 | 6.5 | 9.0 | ^ v |
| 53 | -24° | 861 | 1 | 56.0 | -24 | 29.0 | 8.7 | ^ / |
| 54 | -24° | 867 | 1 | 56.4 | -24 | 38.9 | 8.5 | ^ / |

Cards made out

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Monday. May 20, 1912
B 12366 chart disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 8 | Ko | |
| 56 | 4 | Ao | |
| 57 | 2 | kp5 | Nearly all superposed on 58. |
| 58 | 3 | kp5 | |
| 59 | 4 | F5 | |
| 60 | 3 | F8 | |
| 61 | 5 | kp5 | |
| Time: 12.00 | 62 | 5 | K0 |
| | ~~63~~ | | |
| | 63 | 3 | A5 |
| | 64 | 5 | Ao |
| | 65 | 3 | Ao |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | -24° | 872 | 1 | 57.1 | -24 | 29.0 | 6.2 | 1V |
| 56 | -25° | 803 | 1 | 57.4 | -25 | 23.7 | 8.7 | 1V |
| 57 | -24° | 889 | 1 | 59.8 | -24 | 58.6 | 8.9 | 1V |
| 58 | -24° | 891 | 1 | 59.9 | -24 | 58.6 | 8.7 | 1V |
| 59 | -25° | 821 | 2 | 0.7 | -25 | 15.8 | 8.6 | 1V |
| 60 | -25° | 828 | 2 | 2.1 | -25 | 9.3 | 8.5 | 1V |
| 61 | -25° | 830 | 2 | 2.5 | -25 | 16.7 | 8.5 | 1V |
| 62 | -24° | 895 | 2 X | 0.7 | -24 | 9.7 | 7.7 | 1V |

Identified by M. C. W. Aug. 24. 1912.
Checked August 29. 1912. H.R.W.
cards made out by M. C. W.
Cards checked by A.H.C.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ✓ | 63 | -19° | 374 | 1 | 58.0 | -19 | 50 | 8.9 | 117 on B12240 |
| ✓ | 64 | -19° | 369 | 1 | 56.7 | -19 | 19 | 8.0 | 114 " " |
| ✓ | 65 | -18° | 357 | 1 | 57.7 | -18 | 43 | 8.4 | 115 " " |

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Tuesday May 21, 1912

Time: 11.32

B 1496 chart disp.

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 1 | 3 | K2 | E. |
| 2 | 2 | K2 | |
| 3 | 4 | K0 | |
| 4 | 2 | G | |
| 5 | 10 | K0 | |
| 6 | 1 | K | |
| 7 | 7 | A3 | |
| 8 | 5 | K0 | |
| 9 | 10 | G0 | |
| 10 | 8 | K0 | |
| 11 | 2 | K | |
| 12 | 1 | F8 | |
| 13 | 5 | G0 | |
| 14 | 10 | K0 | |
| 15 | 2 | G0 | |
| 16 | 9 | G0 | |
| 17 | 3 | K0 | E. |
| 18 | 9 | A0 | |
| 19 | 2 | A | |
| 20 | 1 | G5 | Difficult - due to superposition on 21. |
| 21 | 3 | K0 | |
| 22 | 10 | F5 | |
| 23 | 2 | K2 | |
| 24 | 8 | F0 | |
| 25 | 7 | F2 | |
| 26 | 6 | F5 | |
| 27 | 10 | K0 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -18° | 457 | 2 | 34.4 | -18 | 26.4 | 7.8 | ✓ |
| 2 | -19° | 504 | 2 | 34.3 | -19 | 13.5 | 8.3 | ✓ |
| 3 | -19° | 501 | 2 | 33.9 | -19 | 22.3 | 8.3 | ✓ |
| 4 | -19° | 498 | 2 | 33.0 | -19 | 36.9 | 8.5 | ✓ |
| 5 | -20° | 492 | 2 | 30.2 | -20 | 45.6 | 7.2 | ✓ |
| 6 | -21° | 466 | 2 | 30.7 | -21 | 17.9 | 8.9 | ✓ |
| 7 | -21° | 468 | 2 | 30.1 | -21 | 23.9 | 8.2 | ✓ |
| 8 | -21° | 459 | 2 | 29.6 | -21 | 59.9 | 8.2 | ✓ |
| 9 | -22° | 445 | 2 | 29.4 | -22 | 2.1 | 7.0 | ✓ |
| 10 | -22° | 444 | 2 | 28.0 | -22 | 34.0 | 6.8 | ✓ |
| 11 | -20° | 491 | 2 | 29.8 | -20 | 27.4 | 9.0 | ✓ |
| 12 | -20° | 488 | 2 | 29.1 | -20 | 31.4 | 9.1 | ✓ |
| 13 | -20° | 482 | 2 | 27.4 | -20 | 39.2 | 8.7 | ✓ |
| 14 | -20° | 480 | 2 | 27.0 | -20 | 38.1 | 6.7 | ✓ |
| 15 | -20° | 481 | 2 | 27.1 | -20 | 15.0 | 8.5 | ✓ |
| 16 | -18° | 447 | 2 | 29.2 | -18 | 16.1 | 7.0 | ✓ |
| 17 | -17° | 502 | 2 | 29.3 | -17 | 46.5 | 7.9 | ✓ |
| 18 | -17° | 498 | 2 | 28.3 | -17 | 55.3 | 7.2 | ✓ |
| 19 | -20° | 477 | 2 | 26.2 | -20 | 54.2 | 9.3 | * |
| | ~~-27°~~ | ~~458~~ | ~~2~~ | ~~25.9~~ | ~~-27~~ | ~~2m~~ | ~~9.7~~ | |
| 20 | -21° | 442 | 2 | 23.4 | -21 | 32.8 | 8.9 | ✓ |
| 21 | -21° | 441 | 2 | 23.3 | -21 | 29.9 | 8.5 | ✓ |
| 22 | -21° | 438 | 2 | 22.6 | -21 | 41.2 | 7.0 | ✓✓ |
| 23 | -20° | 465 | 2 | 22.2 | -20 | 38.3 | 8.5 | ✓ |
| 24 | -20° | 463 | 2 | 22.0 | -20 | 27.1 | 7.8 | ✓ |
| 25 | -19° | 463 | 2 | 22.4 | -19 | 55.9 | 8.2 | ✓ |
| 26 | -19° | 461 | 2 | 22.1 | -19 | 16.0 | 7.8 | ✓ |
| 27 | -20° | 455 | 2 | 19.8 | -20 | 42.2 | 6.0 | ✓ |

* According to Chart Pl. B 1004 this star is 8m.7 small & for giving an Mag Cat and 9.0m. check.

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Tuesday: May 21, 1912

B 11876 short disks.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 2 | Gp | |
| 29 | 3 | F8 | |
| 30 | 4 | F8 | |
| 31 | 4 | F5 | |
| 32 | 5 | F5 | |
| 33 | 9 | F8 | |
| 34 | 1 | K | |
| 35 | 3 | K5 | |
| 36 | 4 | K0 | |
| 37 | 2 | K0 | |
| 38 | 7 | A2 | |
| 39 | 3 | K0 | |
| 40 | 2 | K0 | |
| 41 | 10 | G5 | |
| 42 | 2 | K0 | |
| 43 | 2 | F | Poor focus. |
| 44 | 5 | K0 | |
| 45 | 7 | K5 | |
| 46 | 2 | F5 | |
| 47 | 3 | G0 | |
| 48 | 9 | G5 | |
| 49 | 2 | G | |
| 50 | 4 | F8 | |
| 51 | 3 | K2 | |
| 52 | 7 | K0 | |
| 53 | 4 | K2 | |
| 54 | 8 | F5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -20° | ~~45~~ 20 ~~448~~ | 2 | ~~18.2~~ 19.1 | -20 | ~~56.2~~ 58.7 | 9.0 | ∧J |
| 29 | -20° | 451 | 2 | 19.0 | -20 | 58.1 | 8.8 | √ |
| 30 | -20° | 447 | 2 | 18.0 | -20 | 42.0 | 8.1 | J |
| 31 | -21° | 431 | 2 | 18.5 | -21 | 17.3 | 8.6 | √ |
| 32 | -21° | 433 | 2 | 19.1 | -21 | 58.5 | 8.5 | J |
| 33 | -22° | 409 | 2 | 18.7 | -22 | 28.1 | 7.8 | √ |
| 34 | -22° | 401 | 2 | 17.0 | -22 | 28.4 | 8.9 | √ |
| 35 | -22° | 397 | 2 | 15.6 | -22 | 32.0 | 8.0 | J |
| 36 | -22° | 392 | 2 | 13.7 | -22 | 47.2 | 8.1 | J |
| 37 | -23° | 880 | 2 | 15.0 | -23 | 10.2 | 8.6 | J |
| 38 | -23° | 863 | 2 | 12.5 | -23 | 9.9 | 8.2 | J |
| 39 | -21° | 417 | 2 | 13.4 | -21 | 29.4 | 8.0 | J |
| 40 | -21° | 416 | 2 | 12.9 | -21 | 39.8 | 8.5 | √ |
| 41 | -20° | 440 | 2 | 14.5 | -20 | 34.5 | 6.7 | √ |
| 42 | -20° | 438 | 2 | 13.2 | -20 | 41.9 | 8.3 | J |
| 43 | -19° | 429 | 2 | 13.2 | -19 | 43.3 | 8.9 | J |
| 44 | -19° | 427 | 2 | 12.9 | -19 | 48.7 | 7.8 | J |
| 45 | -20° | 437 | 2 | 12.1 | -20 | 12.5 | 7.2 | ∧J |
| 46 | -20° | 433 | 2 | 10.8 | -20 | 15.0 | 8.6 | J |
| 47 | -22° | 454 | 2 | 31.4 | -22 | 45.8 | 8.5 | J |
| 48 | -23° | 998 | 2 | 32.1 | -23 | 32.0 | 6.8 | J |
| 49 | -23° | 995 | 2 | 31.7 | -23 | 15.4 | 8.7 | J |
| 50 | -24° | 1162 | 2 | 31.7 | -24 | 15.8 | 8.4 | J |
| 51 | -24° | 1159 | 2 | 31.3 | -24 | 48.8 | 8.3 | J |
| 52 | -24° | 1157 | 2 | 30.9 | -24 | 27.9 | 7.5 | J |
| 53 | -24° | 1154 | 2 | 30.4 | -24 | 4.2 | 8.4 | J |
| 54 | -24° | 1196 | 2 | 34.9 | -24 | 40.5 | 7.7 | J |

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Tuesday, May 21, 1912

B 14876 short disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 55 | 4 | fy5 | |
| 56 | 3 | fy5 | |
| 57 | 5 | f2 | |
| 58 | 1 | K | |
| 59 | 6 | K0 | |
| 60 | 6 | f0 | |
| 61 | 8 | K5 | |
| 62 | 8 | fy0 | |
| 63 | 2 | K2 | |
| 64 | 3 | K2 | |
| 65 | 2 | K0 | |
| 66 | 3 | fy5 | |
| 67 | 10 | A0 | |
| 68 | 1 | A | |
| 69 | 8 | K5 | |
| 70 | 10 | A0 | |
| 71 | 1 | fy | |
| 72 | 2 | K0 | |
| 73 | 5 | f8 | |
| 74 | 4 | K5 | |
| 75 | 7 | K0 | |
| 76 | 1 | K | |
| 77 | 2 | K0 | |
| 78 | 5 | f2 | |
| 79 | 10 | f0 | |
| 80 | 4 | f8 | |
| 81 | 3 | fy | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | -24° | 1189 | 2 | 34.3 | -24 | 28.5 | 8.2 | J |
| 56 | -25° | 1051 | 2 | 34.3 | -25 | 0.9 | 8.0 | J |
| 57 | -24° | 1182 | 2 | 33.5 | -24 | 53.1 | 8.2 | J |
| 58 | -25° | 1045 | 2 | 33.5 | -25 | 3.1 | 8.6 | J |
| 59 | -26° | 958 | 2 | ~~24.3~~ 33.9 | -26 | ~~39.5~~ 4.3 | ~~8.6~~ 7.6 | J |
| 60 | -25° | 1044 | 2 | 33.3 | -25 | 54.8 | 8.5 | J |
| 61 | -26° | 953 | 2 | 33.4 | -26 | 16.9 | 7.4 | J |
| 62 | -26° | 1025 | 2 | 31.2 | -25 | 33.8 | 7.8 | J |
| 63 | -25° | 1008 | 2 | 29.1 | -25 | 55.3 | 8.1 | J |
| 64 | -25° | 1003 | 2 | 28.2 | -25 | 37.5 | 8.2 | J |
| 65 | -23° | 972 | 2 | 29.0 | -23 | 41.6 | 8.5 | J |
| 66 | -23° | 962 | 2 | 26.8 | -23 | 53.0 | 8.4 | J |
| 67 | -23° | 957 | 2 | 26.3 | -23 | 38.3 | 8.0 | J |
| 68 | -23° | 960 | 2 | 26.6 | -23 | 24.4 | 8.7 | J |
| 69 | -23° | 947 | 2 | 24.8 | -23 | 5.4 | 6.3 | J |
| 70 | -23° | 942 | 2 | 24.2 | -23 | 14.3 | 6.7 | J |
| 71 | -22° | 423 | 2 | 22.8 | -22 | 57.4 | 9.0 | J |
| 72 | -22 | 422 | 2 | 22.4 | -22 | 13.2 | 8.4 | J |
| 73 | -23° | 988 | 2 | 21.1 | -23 | 32.1 | 8.4 | J |
| 74 | -23° | 932 | 2 | 23.4 | -23 | 45.5 | 7.8 | J |
| 75 | -24° | 1106 | 2 | 23.9 | -24 | 40.0 | 7.6 | J |
| 76 | -24° | 1123 | 2 | 26.3 | -24 | 28.6 | 8.7 | J |
| 77 | -25° | 982 | 2 | 25.2 | -25 | 14.3 | 8.7 | J |
| 78 | -25° | 983 | 2 | 25.5 | -25 | 48.9 | 8.6 | J |
| 79 | -25° | 979 | 2 | 24.6 | -25 | 44.8 | 6.5 | J |
| 80 | -25° | 969 | 2 | 23.7 | -25 | 22.3 | 8.4 | J |
| 81 | -26° | 968 | 2 | 23.2 | -25 | 32.7 | 8.5 | J |

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Tuesday, May 21, 1912

B 1487b about disp.

| No. | Int. | Class | Remark |
|---|---|---|---|
| 82 | 4 | fg5 | |
| 83 | 8 | As3 | |
| 84 | 3 | Nbt | |
| 85 | 10+ | fg | |
| 86 | 5 | Nb | |
| 87 | 9 | Nb | |
| Time: 11.51 | 88 | 4 | Nb |
| | 89 | | |
| | 90 | | |
| | 91 | | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 82 | -24° | 1082 | 2 | 20.6 | -24 | 27.2 | 8.6 | J |
| 83 | -24° | 1076 | 2 | 20.2 | -24 | 24.5 | 7.7 | √ |
| 84 | -24° | 1082.74 | 2 | 19.9 | -24 | 32.5 27.2 | 8.3 | / |
| 85 | -24° | 1038 | 2 | 16.8 | -24 | 22.8 | 5.4 | √ |
| 86 | -26° | 882 | 2 | 22.7 | -26 | 59.9 | 7.4 | J |
| 87 | -26° | 857 | 2 | 15.7 | -26 | 24.6 | 6.6 | √ |
| 88 | -25° | 916 | 2 | 16.6 | -25 | 46.9 | 8.0 | I |

Identified by M. C. W. Aug. 29. 1912.
Checked by AMC. Oct 8, 1912
cards made out by M. C. W.

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Tuesday, May 21, 1912

Time: 11.52

B 10434 about disp.

| No. | Fut. | Class | Remark |
|---|---|---|---|
| 1 | 8 | Ly | E. |
| 2 | 8 | K0 | E. |
| 3 | 2 | F5 | |
| 4 | 6 | F2 | |
| 5 | 3 | K0 | |
| 6 | 2 | F8 | |
| 7 | 5 | Ly | |
| 8 | 10 | Ly | |
| 9 | 2 | Ly | |
| 10 | 2 | K0 | |
| 11 | 2 | Ly | |
| 12 | 2 | Ly | |
| 13 | 2 | Ly | |
| 14 | 6 | Ly | |
| 15 | 4 | F8 | |
| 16 | 5 | F5 | |
| 17 | 1 | ? | Difficult |
| 18 | 8 | F0 | |
| 19 | 5 | F0 | |
| 20 | 2 | Ly | |
| 21 | 4 | F8 | |
| 22 | 5 | Ly | |
| 23 | 4 | Ma | |
| 24 | 5 | F8 | |
| 25 | 8 | F8 | |
| 26 | 4 | F0 | |
| 27 | 4 | F8 | E. |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | -19° | 444 | 2 | 16.1 | -19 | 0.6 | 6.3 | ∧ ∪ |
| 2 | -18° | 409 | 2 | 15.2 | -18 | 19.2 | 6.0 | ∧ ∪ |
| 3 | -20° | 433 | 2 | 10.8 | -20 | 15.0 | 8.6 | ∧ ∪ |
| 4 | -20° | 432 | 2 | 10.4 | -20 | 40.2 | 8.0 | ∧ ∪ |
| 5 | -21° | 406 | 2 | 9.8 | -21 | 47.8 | 8.0 | ∧ ∨ |
| 6 | -21° | 404 | 2 | 9.4 | -21 | 40.9 | 8.4 | ∧ ∪ |
| 7 | -21° | 403 | 2 | 9.0 | -21 | 59.6 | 7.9 | ∧ ∪ |
| 8 | -21° | 393 | 2 | 6.9 | -21 | 40.9 | 6.2 / 8.7 | / ∪ |
| 9 | -21° | 390 | 2 | 5.4 | -21 | 44.8 | 8.2 | ∧ ∪ |
| 10 | -21° | 389 | 2 | 5.3 | -21 | 31.7 | 8.2 | ∧ ∪ |
| 11 | -21° | 394 | 2 | 6.1 | -21 | 52.8 | 8.7 | ∧ ∪ |
| 12 | -22° | 376 | 2 | 5.3 | -22 | 14.6 | 8.5 | ∧ ∪ |
| 13 | -20° | 408 | 2 | 3.8 | -20 | 52.8 | 8.5 | ∧ ∪ |
| 14 | -23° | 822 | 2 | 7.5 | -23 | 27.3 | 7.5 | ∧ ∪ |
| 15 | -24° | 1023 | 2 | 14.2 | -24 | 12.1 | 8.5 | ∧ ∪ |
| 16 | -24° | 1022 | 2 | 14.1 | -24 | 25.8 / 24.8 | 8.6 / 8.5 | ∧ ∧ Are the same clear of 24 surface? |
| 17 | -24° | 1018 | 2 | 13.5 | -24 | 25.7 | 8.9 | ∧ ∨ |
| 18 | -24° | 1008 | 2 | 12.4 | -24 | 12.1 | 7.5 | ∧ ∪ |
| 19 | -23° | 863 | 2 | 12.5 | -23 | 9.9 | 8.2 | ∧ ∪ |
| 20 | -22° | 884 | 2 | 10.4 | -22 | 31.4 | 8.3 | ∧ ∪ |
| 21 | -23° | 847 | 2 | 9.9 | -23 | 10.2 | 8.6 | ∧ ∪ |
| 22 | -23° | 852 | 2 | 10.5 | -23 | 37.4 | 8.4 | ∧ ∪ |
| 23 | -23° | 845 | 2 | 9.9 | -23 | 57.5 | 8.1 | ∧ ∨ |
| 24 | -23° | 840 | 2 | 9.5 | -23 | 61.8 | 8.1 | ∧ ∪ |
| 25 | -24° | 980 | 2 | 9.3 | -24 | 7.1 | 7.0 | ∧ ∪ |
| 26 | -24° | 999 | 2 | 11.4 | -24 | 38.5 | 8.3 | ∧ ∪ |
| 27 | -25° | 873 | 2 | 10.1 | -25 | 21.7 | 8.4 | ∧ ∨ |

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Thursday, May 21, 1912.
B 10434 short disp.

| Nr. | Int. | Class | Remark |
|---|---|---|---|
| 28 | 6 | F5 | E. |
| 29 | 4 | A2 | |
| 30 | 4 | F5 | |
| Time: 11.59 31 | 3 | G5 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28 | -25° | 856 | 21 | 7.9 | -25 | 22.7 | 7.7 | ∧∨ |
| 29 | -24° | 946 | 20 | 6.1 | -24 | 56.3 | 8.5 | ∧J |
| 30 | -25° | 902 | 2 | 14.3 | -25 | 4.0 | 8.4 | ∧∪ |
| 31 | -25° | 883 | 2 | 11.2 | -25 | 12.8 | 8.4 | ∧∨ |

Identified by AMC July 8, 1912
Checked. Aug. 28 1912. H.D.W.
cards made out by M.C.W.
Cards checked by AMC.

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