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RECORD OF OBSERVATIONS AT  
AGINCOURT MAGNETIC OBSERVATORY

W.R. Darker and D.L. McKeown

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# AGINCOURT MAGNETIC OBSERVATORY 1966

Geographic Coordinates: 43° 47'N; 79° 16'W

Geomagnetic Coordinates: 55.0°N; 347.0°E

Officer-in-Charge: W. R. Darker

Assistant: D. L. McKeown

## Introduction

Agincourt Magnetic Observatory was established in 1898 one-half mile south of the old village of Agincourt (now part of Metropolitan Toronto). Although industrial construction continues in the vicinity of the observatory, it is believed that artificial disturbances have not impaired the validity of values reported in this publication.

## Equipment

### Absolute Instruments

Ruska magnetometer No. 6513 was used as the standard for declination.

QHMs (la Cour and Sucksdorff, 1936) Nos. 258, 391, 571, 572, and 573 were used to measure horizontal intensity and were compared with a Schuster-Smith coil magnetometer (Jackson, 1938; Smith, 1922).

Inclination was measured by Ruska earth inductor No. 11650.

Total intensity was determined by a proton precession magnetometer (Serson, 1962).

The International Magnetic Standard corrections adopted for these instruments are as follows:

- for D, I.M.S. = Ruska 6513 +0.0'
- for H, I.M.S. = QHM 258 -9.3 $\gamma$   
= QHM 391 -13.0 $\gamma$   
= QHM 571 -4.2 $\gamma$   
= QHM 572 -3.9 $\gamma$   
= QHM 573 -5.9 $\gamma$   
= Schuster-Smith +0.0 $\gamma$
- for I, I.M.S. = Ruska 11650 +0.0 $\gamma$   
= Dominion Observatory No. 8  
+0.0 $\gamma$
- for F, I.M.S. = Proton Precession Magnetometer  
+0.0 $\gamma$  (4257.60 Hz per oersted)

The I.M.S. corrections for D and H are discussed in some detail in the *Record of Observations at Agincourt Magnetic Observatory for 1964 and 1965*.

### Variometers

Two sets of photographic recorders were operated continuously: a Ruska at normal sensitivity and a la Cour at low sensitivity. The paper speed was 20 mm/hr for the Ruska recorder and 15 mm/hr for the la Cour.

A fluxgate recording magnetometer (Serson, 1957) provided an immediately visible record of D, H and Z at a speed of 20 mm/hr and a sensitivity of 4.0 $\gamma$ /mm.

The scale values of the photographic variometers during 1966 are listed below.

| Months    | Ruska                |                 |                      | la Cour              |                 |                      |
|-----------|----------------------|-----------------|----------------------|----------------------|-----------------|----------------------|
|           | H<br>( $\gamma$ /mm) | D<br>( $'$ /mm) | Z<br>( $\gamma$ /mm) | H<br>( $\gamma$ /mm) | D<br>( $'$ /mm) | Z<br>( $\gamma$ /mm) |
| January   | 5.4                  | 1.06            | 5.6                  | 11.5                 | 0.92            | 16.6                 |
| February  | 5.4                  | 1.06            | 5.6                  | 11.5                 | 0.92            | 16.7                 |
| March     | 5.4                  | 1.06            | 5.6                  | 11.5                 | 0.93            | 16.7                 |
| April     | 5.4                  | 1.06            | 5.6                  | 11.5                 | 0.93            | 16.5                 |
| May       | 5.4                  | 1.06            | 5.6                  | 11.5                 | 0.93            | 16.7                 |
| June      | 5.5                  | 1.06            | 5.6                  | 11.6                 | 0.92            | 16.8                 |
| July      | 5.6                  | 1.07            | 5.7                  | 11.6                 | 0.93            | 16.8                 |
| August    | 5.6                  | 1.06            | 5.5                  | 11.5                 | 0.94            | 17.0                 |
| September | 5.5                  | 1.07            | 5.6                  | 11.5                 | 0.94            | 16.6                 |
| October   | 5.5                  | 1.07            | 5.6                  | 11.5                 | 0.95            | 16.8                 |
| November  | 5.4                  | 1.06            | 5.6                  | 11.5                 | 0.94            | 16.7                 |
| December  | 5.4                  | 1.06            | 5.6                  | 11.5                 | 0.93            | 16.6                 |

## Absolute Observations and Baseline Values

Absolute observations were made at least once a week. Baseline values were adopted by fitting French curves as closely as possible to the observed values. No discontinuities occurred in the baselines in 1966. The R.M.S. difference of the observed minus the adopted baseline values for declination, horizontal intensity and vertical intensity is 0.03', 2.9 $\gamma$  and 2.3 $\gamma$  respectively.

## Notes on the Tables

Greenwich mean time (U.T.) is used throughout.

The hourly values of H, D and Z were manually scaled and punched on cards. The tables were calculated by a CDC 3100 computer. The computer was programmed so that the output was compatible with offset printing techniques.

Table 46 lists the three-hour range indices in D, H and Z, as well as the K-indices which were sent bi-monthly to the International Association of Geomagnetism and Aeronomy. Copies of K-indices were also supplied monthly to the National Research Council

of Canada and Cornell Aeronautical Institute in Buffalo, N.Y.

The magnetograms were read each month for sudden commencements, bays and pulsations, and the results reported directly to the I.A.G.A. and the National Research Council of Canada.

Copies of 118 magnetograms were supplied to researchers in 1966.

### References

- Jackson, W. E. W. *Record of Observations at the Magnetic Observatories Agincourt and Meanook, 1932-33*. p. 5, Ottawa, 1938.
- la Cour, D., and E. Sucksdorff. *le quartz-magnetometre QHM*. Commun. No. 15, 22 pp., No. 16, 11 pp. Danish Meteorol. Inst. Copenhagen, 1936.
- Serson, Paul H. An electrical recording magnetometer. *Can. J. Phys.*, Vol. 35, pp. 1387-1394, 1957.
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- Serson, P. H., and W. L. W. Hannaford. *A Portable Electrical Magnetometer*. *Can. J. Technology*, Vol. 1, no. 28, pp. 232-243, 1956.
- Smith, F. E. *Phil. Trans. Roy. Soc.* Vol. 223, pp. 175-200, 1922.

### Annual Means

| Year   | D    |      | H     | Z     | X     | Y*    | I*    |      | F     |
|--------|------|------|-------|-------|-------|-------|-------|------|-------|
|        | West |      |       |       |       |       | North |      |       |
|        | °    | '    | γ     | γ     | γ     | γ     | °     | '    | γ     |
| 1955.5 | 7    | 16.4 | 15561 | 56194 | 15436 | -1970 | 74    | 31.3 | 58308 |
| 1956.5 |      | 16.8 | 601   | 218   | 475   | -1977 |       | 29.4 | 343   |
| 1957.5 |      | 19.1 | 642   | 203   | 515   | -1992 |       | 26.8 | 339   |
| 1958.5 |      | 19.7 | 686   | 196   | 558   | -2001 |       | 24.2 | 344   |
| 1959.5 |      | 18.8 | 739   | 207   | 611   | -2004 |       | 21.2 | 369   |
| 1960.5 |      | 19.7 | 797   | 205   | 668   | -2015 |       | 18.1 | 383   |
| 1961.5 |      | 19.7 | 864   | 177   | 734   | -2024 |       | 13.8 | 374   |
| 1962.5 |      | 20.6 | 929   | 147   | 798   | -2036 |       | 09.7 | 363   |
| 1963.5 |      | 23.0 | 990   | 121   | 857   | -2055 |       | 05.8 | 354   |
| 1964.5 |      | 27.9 | 16040 | 083   | 904   | -2084 |       | 02.4 | 331   |
| 1965.5 |      | 30.5 | 089   | 049   | 951   | -2102 | 73    | 58.0 | 313   |
| 1966.5 |      | 33.4 | 152   | 026   | 16012 | -2124 |       | 55.9 | 308   |

\*X, Y, I, F are derived from the annual means of D, H and Z.

HORIZONTAL INTENSITY

TABLE 1 AGINCOURT

H = 15500 + TABULAR VALUES IN GAMMAS

JANUARY 1966

| DAY  | HOUR<br>UT | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       | 19       | 20       | 21       | 22       | 23       | MEAN |
|------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|      |            | T0<br>1 | T0<br>2 | T0<br>3 | T0<br>4 | T0<br>5 | T0<br>6 | T0<br>7 | T0<br>8 | T0<br>9 | T0<br>10 | T0<br>11 | T0<br>12 | T0<br>13 | T0<br>14 | T0<br>15 | T0<br>16 | T0<br>17 | T0<br>18 | T0<br>19 | T0<br>20 | T0<br>21 | T0<br>22 | T0<br>23 | T0<br>24 |      |
| 1    | U          | 624     | 624     | 624     | 623     | 622     | 623     | 627     | 628     | 629     | 630      | 633      | 631      | 629      | 624      | 618      | 614      | 611      | 613      | 617      | 623      | 628      | 634      | 638      | 638      | 625  |
| 2    |            | 633     | 624     | 633     | 632     | 628     | 628     | 630     | 629     | 628     | 633      | 638      | 636      | 633      | 627      | 624      | 615      | 606      | 607      | 613      | 622      | 622      | 627      | 638      | 635      | 627  |
| 3    |            | 629     | 613     | 619     | 618     | 618     | 617     | 621     | 624     | 624     | 627      | 628      | 628      | 628      | 622      | 612      | 601      | 602      | 606      | 617      | 622      | 628      | 630      | 626      | 620      |      |
| 4    |            | 626     | 624     | 622     | 621     | 622     | 621     | 624     | 623     | 622     | 623      | 633      | 634      | 634      | 634      | 629      | 618      | 607      | 607      | 623      | 619      | 617      | 624      | 623      | 623      | 623  |
| 5    |            | 617     | 618     | 622     | 623     | 620     | 620     | 622     | 623     | 623     | 624      | 627      | 627      | 628      | 623      | 618      | 612      | 607      | 608      | 613      | 619      | 624      | 623      | 626      | 627      | 620  |
| 6    |            | 622     | 625     | 622     | 622     | 623     | 623     | 623     | 623     | 625     | 627      | 627      | 627      | 629      | 628      | 625      | 622      | 616      | 621      | 627      | 628      | 631      | 633      | 632      | 631      | 625  |
| 7    |            | 627     | 626     | 623     | 624     | 622     | 621     | 616     | 615     | 621     | 627      | 627      | 627      | 627      | 627      | 625      | 627      | 627      | 625      | 627      | 626      | 616      | 629      | 633      | 625      | 625  |
| 8    |            | 627     | 614     | 617     | 615     | 617     | 622     | 621     | 616     | 622     | 625      | 628      | 632      | 628      | 626      | 621      | 611      | 610      | 611      | 621      | 628      | 628      | 629      | 633      | 628      | 622  |
| 9    |            | 622     | 626     | 627     | 627     | 626     | 627     | 626     | 627     | 630     | 629      | 628      | 627      | 626      | 625      | 621      | 616      | 607      | 606      | 617      | 627      | 632      | 616      | 619      | 627      | 623  |
| 10   |            | 627     | 627     | 623     | 617     | 610     | 617     | 617     | 621     | 622     | 627      | 628      | 627      | 627      | 622      | 616      | 606      | 600      | 599      | 611      | 621      | 622      | 625      | 623      | 622      | 619  |
| 11   |            | 616     | 622     | 623     | 624     | 623     | 622     | 622     | 622     | 627     | 627      | 627      | 627      | 626      | 621      | 610      | 601      | 600      | 606      | 617      | 627      | 632      | 632      | 632      | 633      | 622  |
| 12   | U          | 632     | 627     | 622     | 627     | 626     | 626     | 626     | 627     | 628     | 628      | 628      | 632      | 629      | 627      | 616      | 609      | 606      | 610      | 616      | 627      | 635      | 638      | 638      | 638      | 626  |
| 13   | U          | 634     | 632     | 632     | 633     | 632     | 628     | 630     | 632     | 633     | 635      | 633      | 633      | 632      | 627      | 622      | 616      | 612      | 617      | 622      | 622      | 633      | 637      | 638      | 639      | 629  |
| 14   |            | 637     | 634     | 633     | 633     | 632     | 630     | 628     | 627     | 633     | 634      | 637      | 638      | 638      | 635      | 630      | 615      | 609      | 609      | 615      | 619      | 628      | 633      | 633      | 628      | 629  |
| 15   |            | 625     | 622     | 616     | 621     | 626     | 628     | 629     | 628     | 631     | 632      | 632      | 632      | 632      | 633      | 626      | 621      | 615      | 613      | 616      | 621      | 626      | 632      | 633      | 636      | 626  |
| 16   | U          | 632     | 631     | 629     | 627     | 627     | 627     | 631     | 632     | 632     | 632      | 632      | 632      | 632      | 627      | 616      | 609      | 609      | 615      | 621      | 627      | 632      | 637      | 636      | 627      | 627  |
| 17   |            | 632     | 631     | 631     | 632     | 627     | 626     | 629     | 632     | 634     | 635      | 634      | 636      | 636      | 636      | 636      | 628      | 621      | 622      | 625      | 632      | 637      | 640      | 643      | 645      | 632  |
| 18   |            | 643     | 645     | 642     | 638     | 637     | 636     | 637     | 637     | 642     | 645      | 643      | 643      | 642      | 641      | 633      | 622      | 617      | 624      | 623      | 626      | 631      | 632      | 627      | 635      | 635  |
| 19   |            | 631     | 627     | 627     | 626     | 627     | 628     | 626     | 632     | 627     | 626      | 622      | 632      | 635      | 631      | 629      | 627      | 618      | 616      | 616      | 621      | 626      | 633      | 638      | 642      | 628  |
| 20   | U          | 637     | 636     | 637     | 629     | 627     | 631     | 631     | 632     | 641     | 632      | 625      | 626      | 629      | 611      | 617      | 615      | 610      | 594      | 611      | 601      | 594      | 621      | 631      | 623      | 623  |
| 21   | U          | 610     | 617     | 638     | 621     | 614     | 615     | 615     | 616     | 621     | 615      | 634      | 637      | 631      | 621      | 605      | 605      | 605      | 596      | 578      | 594      | 610      | 620      | 625      | 611      | 615  |
| 22   | U          | 611     | 622     | 625     | 626     | 626     | 625     | 649     | 615     | 627     | 626      | 615      | 610      | 621      | 599      | 588      | 626      | 614      | 605      | 609      | 610      | 605      | 599      | 602      | 606      | 615  |
| 23   | U          | 610     | 622     | 617     | 615     | 613     | 610     | 610     | 616     | 615     | 616      | 618      | 630      | 629      | 616      | 615      | 613      | 614      | 611      | 610      | 609      | 615      | 621      | 621      | 615      | 616  |
| 24   | U          | 614     | 617     | 623     | 621     | 614     | 621     | 620     | 621     | 619     | 610      | 620      | 626      | 625      | 626      | 625      | 619      | 594      | 594      | 614      | 615      | 614      | 620      | 614      | 620      | 617  |
| 25   |            | 624     | 620     | 614     | 614     | 619     | 620     | 620     | 624     | 620     | 626      | 626      | 625      | 626      | 620      | 619      | 605      | 611      | 614      | 608      | 614      | 620      | 626      | 629      | 626      | 620  |
| 26   |            | 626     | 625     | 626     | 625     | 624     | 615     | 615     | 620     | 619     | 620      | 626      | 631      | 619      | 620      | 614      | 608      | 589      | 590      | 595      | 607      | 612      | 613      | 624      | 621      | 616  |
| 27   |            | 623     | 621     | 621     | 624     | 625     | 624     | 623     | 621     | 623     | 624      | 624      | 624      | 619      | 613      | 610      | 600      | 595      | 600      | 609      | 619      | 625      | 630      | 630      | 619      | 619  |
| 28   |            | 628     | 626     | 626     | 626     | 626     | 626     | 627     | 627     | 629     | 631      | 633      | 631      | 635      | 636      | 631      | 619      | 610      | 612      | 615      | 626      | 639      | 647      | 640      | 637      | 628  |
| 29   |            | 645     | 641     | 640     | 641     | 636     | 631     | 631     | 631     | 635     | 631      | 631      | 641      | 642      | 637      | 631      | 621      | 614      | 612      | 619      | 624      | 626      | 626      | 633      | 635      | 631  |
| 30   |            | 635     | 635     | 634     | 632     | 632     | 633     | 635     | 636     | 635     | 636      | 640      | 641      | 638      | 636      | 630      | 620      | 610      | 613      | 613      | 615      | 615      | 624      | 630      | 631      | 629  |
| 31   | U          | 631     | 631     | 630     | 628     | 628     | 626     | 627     | 630     | 629     | 631      | 630      | 630      | 631      | 635      | 635      | 625      | 613      | 610      | 614      | 619      | 622      | 630      | 635      | 635      | 627  |
| MEAN | ALL        | 627     | 626     | 626     | 626     | 624     | 624     | 625     | 625     | 627     | 628      | 629      | 631      | 630      | 626      | 622      | 616      | 610      | 609      | 614      | 619      | 623      | 627      | 630      | 629      | 624  |
| MEAN | U          | 630     | 629     | 627     | 628     | 627     | 626     | 628     | 630     | 630     | 631      | 631      | 631      | 631      | 629      | 624      | 616      | 610      | 612      | 617      | 622      | 629      | 634      | 637      | 637      | 627  |
| MEAN | U          | 616     | 623     | 628     | 623     | 619     | 620     | 625     | 620     | 625     | 620      | 623      | 626      | 627      | 615      | 610      | 616      | 609      | 600      | 604      | 606      | 608      | 616      | 619      | 615      | 617  |

## DECLINATION

| TABLE 2  |           | AGINCOURT                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | JANUARY 1966 |      |      |      |      |      |
|----------|-----------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|------|------|------|------|------|
|          |           | D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |      |      |      |      |      |
| DAY      | HOURLY UT | 0  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20           | 21   | 22   | 23   | 24   | MEAN |
|          |           | 1  | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21           | 22   | 23   | 24   |      |      |
| 1        | U         | 31.4   | 31.3 | 31.2 | 31.3 | 31.2 | 30.3 | 31.4 | 31.9 | 31.4 | 31.3 | 30.5 | 30.5 | 29.7 | 29.3 | 28.3 | 30.3 | 31.5 | 33.6 | 34.5 | 33.6 | 32.7         | 32.4 | 31.5 | 31.1 | 31.4 |      |
| 2        |           | 30.6   | 30.3 | 24.3 | 31.4 | 31.7 | 31.4 | 31.2 | 31.4 | 31.8 | 30.4 | 30.3 | 30.2 | 29.6 | 29.5 | 30.6 | 32.4 | 33.7 | 34.2 | 34.7 | 34.6 | 33.7         | 32.5 | 31.2 | 31.5 | 31.4 |      |
| 3        |           | 31.7   | 30.5 | 30.2 | 30.6 | 30.9 | 30.6 | 31.4 | 31.4 | 31.4 | 31.4 | 31.5 | 31.4 | 31.2 | 30.2 | 29.5 | 31.3 | 32.7 | 34.6 | 35.8 | 35.2 | 34.6         | 32.6 | 32.6 | 32.5 | 31.9 |      |
| 4        |           | 31.3   | 30.7 | 30.7 | 30.5 | 30.2 | 30.6 | 31.4 | 31.3 | 30.6 | 32.5 | 30.6 | 30.4 | 30.4 | 29.1 | 28.3 | 30.6 | 32.8 | 35.7 | 37.8 | 36.6 | 35.5         | 34.8 | 34.7 | 32.4 | 32.1 |      |
| 5        |           | 29.4   | 30.7 | 30.8 | 31.2 | 31.4 | 31.7 | 32.2 | 32.4 | 31.9 | 31.7 | 31.4 | 31.7 | 31.4 | 31.3 | 30.6 | 31.4 | 32.6 | 33.5 | 34.4 | 34.1 | 33.3         | 32.6 | 32.3 | 31.4 | 31.9 |      |
| 6        |           | 30.6   | 31.2 | 31.2 | 31.3 | 31.3 | 31.4 | 31.5 | 31.8 | 31.7 | 31.7 | 31.7 | 31.5 | 31.4 | 30.7 | 30.4 | 31.8 | 32.6 | 33.2 | 33.2 | 32.8 | 32.6         | 32.5 | 32.4 | 31.4 | 31.8 |      |
| 7        |           | 31.4   | 30.4 | 30.8 | 30.2 | 31.3 | 30.7 | 32.2 | 30.6 | 29.3 | 31.2 | 30.7 | 30.9 | 30.6 | 30.5 | 30.3 | 30.2 | 30.7 | 31.8 | 32.7 | 34.5 | 34.8         | 33.7 | 33.7 | 31.4 | 31.4 |      |
| 8        |           | 32.5   | 30.7 | 30.7 | 30.4 | 30.4 | 32.4 | 30.6 | 30.3 | 30.6 | 29.4 | 29.5 | 30.5 | 30.6 | 29.9 | 30.2 | 33.3 | 34.6 | 34.7 | 35.4 | 34.9 | 34.1         | 33.1 | 32.9 | 32.6 | 31.8 |      |
| 9        |           | 31.4   | 30.6 | 30.3 | 30.3 | 31.2 | 31.5 | 32.4 | 32.4 | 32.3 | 31.5 | 31.3 | 30.7 | 30.4 | 29.5 | 29.3 | 30.1 | 33.5 | 37.8 | 38.1 | 35.7 | 35.8         | 35.5 | 31.5 | 32.7 | 32.3 |      |
| 10       |           | 30.7   | 30.5 | 31.2 | 30.2 | 29.3 | 32.4 | 32.4 | 32.9 | 33.6 | 32.3 | 31.2 | 31.4 | 31.2 | 30.2 | 30.2 | 30.7 | 33.5 | 36.7 | 37.9 | 36.5 | 34.4         | 33.7 | 32.6 | 31.4 | 32.4 |      |
| 11       |           | 30.4   | 30.3 | 30.2 | 30.4 | 30.7 | 31.5 | 32.2 | 31.7 | 31.7 | 31.0 | 30.6 | 30.6 | 30.4 | 29.4 | 29.4 | 31.4 | 33.3 | 34.4 | 34.6 | 33.6 | 31.9         | 31.5 | 31.4 | 31.4 | 31.4 |      |
| 12       | U         | 31.2   | 31.1 | 30.2 | 30.6 | 30.9 | 31.7 | 32.2 | 31.7 | 31.4 | 31.3 | 30.7 | 30.6 | 30.5 | 29.9 | 29.2 | 30.7 | 32.7 | 34.9 | 35.7 | 34.6 | 33.3         | 32.4 | 31.7 | 31.1 | 31.7 |      |
| 13       | U         | 30.4   | 30.3 | 29.7 | 30.8 | 30.5 | 30.6 | 31.2 | 31.4 | 31.7 | 31.4 | 31.3 | 31.0 | 30.8 | 29.5 | 29.2 | 30.9 | 32.5 | 33.6 | 34.5 | 33.8 | 32.7         | 32.4 | 31.4 | 31.2 | 31.4 |      |
| 14       |           | 30.4   | 30.4 | 30.4 | 30.4 | 30.4 | 30.3 | 30.5 | 30.4 | 30.4 | 30.4 | 30.6 | 30.5 | 29.9 | 29.2 | 27.6 | 30.5 | 32.7 | 34.7 | 35.7 | 35.7 | 34.6         | 33.5 | 32.4 | 32.4 | 31.4 |      |
| 15       |           | 31.4   | 30.9 | 30.4 | 29.3 | 29.4 | 30.4 | 30.8 | 31.5 | 31.5 | 31.4 | 32.4 | 32.4 | 31.2 | 30.1 | 28.6 | 30.2 | 31.4 | 32.5 | 33.8 | 33.6 | 32.6         | 32.5 | 31.5 | 31.4 | 31.3 |      |
| 16       | U         | 31.3   | 31.3 | 31.3 | 31.5 | 31.5 | 30.9 | 31.6 | 31.8 | 31.5 | 31.5 | 31.4 | 31.4 | 31.3 | 30.6 | 29.6 | 29.9 | 31.4 | 32.6 | 33.7 | 34.5 | 33.7         | 32.6 | 31.6 | 31.6 | 31.7 |      |
| 17       |           | 31.5   | 31.4 | 31.3 | 31.3 | 31.3 | 31.6 | 31.6 | 32.5 | 32.4 | 32.5 | 31.8 | 30.5 | 30.7 | 30.4 | 28.8 | 29.0 | 30.4 | 32.6 | 33.7 | 33.6 | 32.6         | 32.4 | 31.5 | 31.4 | 31.5 |      |
| 18       |           | 30.6   | 30.5 | 30.5 | 31.4 | 31.6 | 32.1 | 32.3 | 31.6 | 31.5 | 30.6 | 30.5 | 30.9 | 30.5 | 30.5 | 31.1 | 33.6 | 26.1 | 27.1 | 26.6 | 34.8 | 33.6         | 33.0 | 31.5 | 31.0 | 31.0 |      |
| 19       |           | 31.4   | 30.9 | 31.4 | 31.6 | 31.8 | 32.4 | 32.6 | 33.7 | 32.2 | 31.1 | 31.5 | 30.6 | 31.3 | 29.5 | 30.4 | 30.2 | 32.5 | 34.2 | 34.6 | 33.8 | 33.6         | 32.8 | 31.9 | 31.4 | 32.0 |      |
| 20       | U         | 30.7   | 31.0 | 30.5 | 30.7 | 30.5 | 31.5 | 31.6 | 35.8 | 29.4 | 28.3 | 27.5 | 28.8 | 27.3 | 28.4 | 35.8 | 33.7 | 36.3 | 39.2 | 40.0 | 36.8 | 35.6         | 33.7 | 31.6 | 32.4 | 32.4 |      |
| 21       | U         | 30.1   | 30.5 | 26.6 | 29.5 | 28.5 | 31.5 | 30.6 | 32.2 | 29.4 | 27.3 | 29.6 | 27.7 | 30.5 | 32.6 | 33.7 | 35.8 | 35.8 | 36.8 | 38.9 | 36.8 | 34.6         | 33.6 | 33.6 | 33.7 | 32.1 |      |
| 22       | U         | 31.5   | 30.1 | 30.8 | 29.9 | 30.5 | 29.5 | 42.2 | 28.4 | 29.1 | 27.3 | 28.4 | 33.7 | 29.3 | 30.5 | 41.6 | 35.8 | 36.8 | 37.9 | 36.9 | 34.9 | 34.7         | 32.4 | 30.4 | 32.5 | 32.7 |      |
| 23       | U         | 28.3   | 28.9 | 26.9 | 30.7 | 31.2 | 30.5 | 35.6 | 33.1 | 32.5 | 32.0 | 36.8 | 31.5 | 34.4 | 37.9 | 32.8 | 32.4 | 33.1 | 33.8 | 34.3 | 33.8 | 33.1         | 33.4 | 32.2 | 32.2 | 32.6 |      |
| 24       | U         | 31.4   | 30.7 | 31.1 | 31.5 | 30.5 | 29.4 | 31.5 | 31.5 | 33.7 | 36.7 | 33.6 | 31.6 | 32.6 | 31.0 | 30.2 | 31.3 | 35.3 | 35.9 | 34.9 | 35.4 | 34.6         | 34.3 | 32.7 | 32.1 | 32.6 |      |
| 25       |           | 31.4   | 31.5 | 29.4 | 30.9 | 30.6 | 32.8 | 31.5 | 33.7 | 33.7 | 31.4 | 30.6 | 31.4 | 30.8 | 32.6 | 33.7 | 35.5 | 33.7 | 33.7 | 34.9 | 35.9 | 35.6         | 33.8 | 32.6 | 31.5 | 32.6 |      |
| 26       |           | 31.3   | 31.1 | 31.0 | 30.7 | 30.4 | 31.0 | 32.6 | 31.4 | 33.4 | 33.7 | 32.6 | 32.1 | 34.8 | 33.8 | 35.8 | 31.5 | 33.8 | 35.6 | 35.8 | 36.9 | 37.4         | 34.5 | 31.4 | 30.5 | 33.0 |      |
| 27       |           | 31.9   | 30.5 | 30.1 | 28.1 | 31.0 | 32.0 | 32.8 | 32.8 | 32.6 | 32.4 | 31.9 | 31.8 | 31.0 | 29.8 | 29.0 | 29.2 | 30.6 | 32.8 | 34.6 | 35.3 | 35.6         | 34.8 | 33.4 | 32.4 | 31.9 |      |
| 28       |           | 31.5   | 31.5 | 31.5 | 31.5 | 31.6 | 31.6 | 31.5 | 32.1 | 32.2 | 31.5 | 31.5 | 32.5 | 31.4 | 28.4 | 27.2 | 28.1 | 30.3 | 32.2 | 34.4 | 35.0 | 34.9         | 34.2 | 32.6 | 31.5 | 31.7 |      |
| 29       |           | 30.8   | 30.6 | 30.6 | 30.6 | 30.7 | 31.2 | 31.6 | 32.0 | 32.5 | 32.5 | 32.4 | 31.7 | 31.4 | 30.6 | 29.5 | 30.2 | 32.7 | 33.8 | 33.0 | 33.2 | 33.8         | 33.7 | 32.7 | 32.9 | 31.9 |      |
| 30       |           | 31.7   | 31.6 | 31.6 | 31.6 | 31.6 | 31.7 | 31.6 | 31.7 | 31.5 | 31.7 | 31.6 | 30.9 | 30.6 | 29.5 | 29.7 | 30.8 | 33.7 | 34.8 | 33.8 | 34.3 | 35.6         | 35.4 | 33.5 | 32.7 | 32.2 |      |
| 31       | U         | 32.3   | 32.0 | 32.0 | 32.0 | 32.0 | 32.1 | 32.5 | 32.8 | 32.7 | 32.0 | 31.1 | 31.0 | 30.7 | 30.5 | 29.6 | 29.7 | 31.7 | 32.9 | 33.6 | 34.1 | 34.7         | 34.1 | 33.0 | 32.1 | 32.1 |      |
| MEAN ALL |           | 31.1   | 30.8 | 30.3 | 30.7 | 30.8 | 31.3 | 32.2 | 31.9 | 31.7 | 31.3 | 31.2 | 31.0 | 30.9 | 30.5 | 30.6 | 31.3 | 33.0 | 34.2 | 34.9 | 34.5 | 34.2         | 33.4 | 32.3 | 31.9 | 31.9 |      |
| MEAN U   |           | 31.3   | 31.2 | 30.9 | 31.2 | 31.2 | 31.1 | 31.8 | 31.9 | 31.8 | 31.5 | 31.0 | 30.9 | 30.6 | 30.0 | 29.2 | 30.3 | 32.0 | 33.5 | 34.4 | 34.1 | 33.4         | 32.8 | 31.9 | 31.4 | 31.6 |      |
| MEAN D   |           | 30.4   | 30.2 | 29.2 | 30.5 | 30.2 | 30.5 | 34.3 | 32.2 | 30.8 | 30.3 | 31.2 | 30.7 | 30.8 | 32.1 | 34.8 | 33.8 | 35.5 | 36.7 | 37.0 | 35.5 | 34.5         | 33.5 | 32.1 | 32.6 | 32.5 |      |

VERTICAL INTENSITY

| TABLE 3  |        | AGINCOURT      |                |                |                |                |                |                |                |                |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | Z = 56000 + TABULAR VALUES IN GAMMAS |                 | JANUARY 1966 |                 |  |  |
|----------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------------------------|-----------------|--------------|-----------------|--|--|
| DAY      | HOURLY | 0              | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10              | 11              | 12              | 13              | 14              | 15              | 16              | 17              | 18              | 19              | 20              | 21              | 22                                   | 23              | MEAN         |                 |  |  |
|          | UT     | T <sub>0</sub> | T <sub>1</sub> | T <sub>2</sub> | T <sub>3</sub> | T <sub>4</sub> | T <sub>5</sub> | T <sub>6</sub> | T <sub>7</sub> | T <sub>8</sub> | T <sub>9</sub> | T <sub>10</sub> | T <sub>11</sub> | T <sub>12</sub> | T <sub>13</sub> | T <sub>14</sub> | T <sub>15</sub> | T <sub>16</sub> | T <sub>17</sub> | T <sub>18</sub> | T <sub>19</sub> | T <sub>20</sub> | T <sub>21</sub> | T <sub>22</sub>                      | T <sub>23</sub> |              | T <sub>24</sub> |  |  |
| 1        | U      | 34             | 33             | 33             | 31             | 31             | 31             | 31             | 31             | 31             | 31             | 30              | 30              | 31              | 30              | 26              | 26              | 30              | 31              | 33              | 34              | 35              | 34              | 32                                   | 30              | 31           |                 |  |  |
| 2        |        | 30             | 31             | 30             | 31             | 30             | 30             | 30             | 30             | 29             | 29             | 30              | 30              | 29              | 30              | 29              | 29              | 29              | 30              | 35              | 40              | 37              | 37              | 36                                   | 35              | 32           |                 |  |  |
| 3        |        | 37             | 41             | 41             | 41             | 38             | 37             | 36             | 36             | 35             | 35             | 35              | 36              | 36              | 35              | 31              | 31              | 34              | 35              | 36              | 41              | 41              | 41              | 41                                   | 40              | 37           |                 |  |  |
| 4        |        | 38             | 37             | 38             | 37             | 36             | 36             | 36             | 35             | 35             | 32             | 31              | 32              | 35              | 32              | 30              | 30              | 26              | 26              | 31              | 31              | 43              | 45              | 42                                   | 42              | 35           |                 |  |  |
| 5        |        | 44             | 42             | 39             | 37             | 37             | 37             | 37             | 37             | 37             | 37             | 37              | 37              | 37              | 37              | 36              | 33              | 32              | 32              | 37              | 40              | 38              | 37              | 37                                   | 37              | 37           |                 |  |  |
| 6        |        | 36             | 36             | 34             | 34             | 33             | 33             | 33             | 34             | 34             | 35             | 35              | 35              | 33              | 32              | 32              | 32              | 32              | 33              | 35              | 37              | 36              | 36              | 36                                   | 36              | 34           |                 |  |  |
| 7        |        | 36             | 37             | 37             | 35             | 33             | 37             | 37             | 39             | 39             | 37             | 34              | 33              | 33              | 33              | 33              | 33              | 31              | 31              | 30              | 30              | 33              | 38              | 42                                   | 42              | 35           |                 |  |  |
| 8        |        | 43             | 49             | 46             | 45             | 44             | 43             | 38             | 38             | 37             | 32             | 34              | 37              | 37              | 37              | 34              | 37              | 38              | 38              | 39              | 40              | 40              | 40              | 40                                   | 41              | 40           |                 |  |  |
| 9        |        | 43             | 44             | 40             | 40             | 38             | 38             | 38             | 38             | 38             | 37             | 38              | 37              | 38              | 37              | 33              | 28              | 33              | 34              | 40              | 45              | 44              | 45              | 50                                   | 45              | 39           |                 |  |  |
| 10       |        | 43             | 41             | 39             | 40             | 43             | 43             | 39             | 38             | 38             | 40             | 38              | 37              | 38              | 38              | 34              | 32              | 33              | 38              | 42              | 45              | 44              | 43              | 43                                   | 41              | 40           |                 |  |  |
| 11       |        | 41             | 43             | 41             | 40             | 39             | 39             | 39             | 39             | 39             | 39             | 38              | 38              | 39              | 39              | 38              | 39              | 39              | 41              | 45              | 46              | 44              | 40              | 40                                   | 40              | 40           |                 |  |  |
| 12       | U      | 39             | 39             | 39             | 39             | 39             | 39             | 39             | 39             | 38             | 37             | 38              | 38              | 39              | 39              | 39              | 35              | 39              | 44              | 46              | 47              | 45              | 39              | 39                                   | 37              | 40           |                 |  |  |
| 13       | U      | 35             | 35             | 37             | 37             | 37             | 37             | 36             | 37             | 37             | 36             | 35              | 35              | 34              | 34              | 29              | 29              | 34              | 35              | 38              | 38              | 35              | 35              | 35                                   | 34              | 35           |                 |  |  |
| 14       |        | 34             | 34             | 35             | 35             | 35             | 34             | 34             | 34             | 34             | 34             | 33              | 33              | 33              | 33              | 28              | 28              | 29              | 33              | 39              | 40              | 39              | 38              | 37                                   | 35              | 34           |                 |  |  |
| 15       |        | 34             | 35             | 38             | 38             | 34             | 31             | 33             | 33             | 34             | 34             | 32              | 31              | 33              | 31              | 26              | 18              | 21              | 23              | 29              | 35              | 39              | 35              | 34                                   | 34              | 32           |                 |  |  |
| 16       | U      | 34             | 32             | 34             | 34             | 35             | 34             | 34             | 35             | 35             | 35             | 35              | 35              | 35              | 35              | 31              | 35              | 35              | 35              | 35              | 40              | 40              | 38              | 35                                   | 35              | 35           |                 |  |  |
| 17       |        | 34             | 34             | 35             | 32             | 34             | 34             | 34             | 35             | 35             | 35             | 34              | 34              | 35              | 31              | 31              | 30              | 29              | 29              | 30              | 35              | 35              | 35              | 35                                   | 30              | 33           |                 |  |  |
| 18       |        | 30             | 29             | 29             | 29             | 29             | 29             | 29             | 30             | 29             | 29             | 28              | 28              | 27              | 28              | 29              | 28              | 26              | 30              | 33              | 34              | 35              | 35              | 35                                   | 35              | 30           |                 |  |  |
| 19       |        | 34             | 34             | 34             | 34             | 34             | 33             | 33             | 29             | 29             | 30             | 29              | 30              | 30              | 29              | 29              | 21              | 18              | 28              | 34              | 35              | 35              | 35              | 35                                   | 33              | 31           |                 |  |  |
| 20       | U      | 29             | 29             | 29             | 30             | 31             | 31             | 25             | 18             | 18             | 24             | 27              | 28              | 25              | 24              | 24              | 19              | 22              | 27              | 34              | 36              | 36              | 40              | 40                                   | 40              | 29           |                 |  |  |
| 21       | U      | 43             | 42             | 35             | 36             | 35             | 34             | 31             | 34             | 30             | 29             | 29              | 22              | 24              | 24              | 17              | 22              | 20              | 29              | 34              | 45              | 40              | 40              | 40                                   | 43              | 33           |                 |  |  |
| 22       | U      | 44             | 45             | 40             | 39             | 35             | 35             | 8              | 5              | 19             | 21             | 21              | 21              | 18              | 13              | 18              | 18              | 14              | 21              | 28              | 33              | 35              | 46              | 47                                   | 48              | 28           |                 |  |  |
| 23       | U      | 47             | 36             | 36             | 37             | 36             | 40             | 22             | 25             | 25             | 30             | 25              | 25              | 25              | 25              | 24              | 25              | 26              | 30              | 36              | 41              | 41              | 39              | 37                                   | 36              | 32           |                 |  |  |
| 24       | U      | 37             | 37             | 36             | 36             | 35             | 29             | 27             | 30             | 29             | 19             | 16              | 21              | 26              | 29              | 26              | 24              | 27              | 36              | 39              | 38              | 39              | 41              | 40                                   | 39              | 32           |                 |  |  |
| 25       |        | 37             | 37             | 36             | 36             | 35             | 30             | 25             | 23             | 29             | 30             | 31              | 31              | 30              | 30              | 26              | 26              | 30              | 30              | 35              | 39              | 37              | 36              | 36                                   | 35              | 32           |                 |  |  |
| 26       |        | 35             | 35             | 35             | 35             | 31             | 29             | 22             | 25             | 30             | 31             | 30              | 31              | 30              | 35              | 32              | 25              | 25              | 30              | 30              | 39              | 40              | 40              | 42                                   | 44              | 33           |                 |  |  |
| 27       |        | 46             | 46             | 46             | 45             | 43             | 43             | 40             | 38             | 41             | 45             | 26              | 26              | 46              | 45              | 38              | 33              | 31              | 36              | 37              | 38              | 37              | 37              | 37                                   | 37              | 39           |                 |  |  |
| 28       |        | 36             | 36             | 37             | 37             | 36             | 36             | 36             | 34             | 34             | 35             | 34              | 35              | 36              | 35              | 32              | 28              | 26              | 32              | 37              | 36              | 31              | 29              | 31                                   | 34              | 34           |                 |  |  |
| 29       |        | 31             | 31             | 29             | 30             | 29             | 28             | 31             | 30             | 26             | 23             | 22              | 20              | 21              | 26              | 27              | 23              | 25              | 27              | 32              | 34              | 31              | 30              | 31                                   | 30              | 28           |                 |  |  |
| 30       |        | 31             | 31             | 31             | 31             | 31             | 30             | 31             | 30             | 31             | 31             | 30              | 27              | 29              | 27              | 25              | 24              | 27              | 32              | 33              | 32              | 32              | 35              | 33                                   | 32              | 30           |                 |  |  |
| 31       | U      | 33             | 33             | 33             | 32             | 32             | 32             | 31             | 28             | 27             | 27             | 24              | 32              | 32              | 31              | 27              | 24              | 27              | 32              | 34              | 34              | 37              | 37              | 36                                   | 33              | 31           |                 |  |  |
| MEAN ALL |        | 37             | 37             | 36             | 36             | 35             | 35             | 32             | 32             | 32             | 32             | 31              | 31              | 32              | 32              | 30              | 28              | 29              | 32              | 35              | 38              | 38              | 38              | 38                                   | 38              | 34           |                 |  |  |
| MEAN U   |        | 35             | 34             | 35             | 35             | 35             | 35             | 34             | 34             | 34             | 33             | 33              | 34              | 34              | 34              | 32              | 29              | 32              | 35              | 36              | 38              | 39              | 37              | 36                                   | 34              | 34           |                 |  |  |
| MEAN U   |        | 40             | 38             | 35             | 36             | 35             | 34             | 23             | 22             | 24             | 25             | 24              | 24              | 24              | 23              | 22              | 22              | 23              | 29              | 35              | 39              | 38              | 41              | 41                                   | 41              | 31           |                 |  |  |



## HORIZONTAL INTENSITY

| TABLE 4  |        | AGINCOURT |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | H = 15500 + TABULAR VALUES IN GAMMAS |     | FEBRUARY 1966 |     |      |    |
|----------|--------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------------|-----|---------------|-----|------|----|
| DAY      | HOURLY | 0         | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20                                   | 21  | 22            | 23  | MEAN |    |
|          | UT     | T0        | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0                                   | T0  | T0            | T0  |      | T0 |
|          |        | 1         | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21                                   | 22  | 23            | 24  |      |    |
| 1        | U      | 635       | 627 | 623 | 625 | 625 | 626 | 628 | 631 | 637 | 636 | 638 | 639 | 640 | 639 | 641 | 639 | 662 | 659 | 659 | 660 | 631                                  | 635 | 637           | 638 | 638  |    |
| 2        |        | 637       | 637 | 637 | 636 | 636 | 636 | 637 | 639 | 638 | 637 | 636 | 638 | 637 | 635 | 632 | 626 | 625 | 627 | 631 | 635 | 636                                  | 641 | 642           | 642 | 635  |    |
| 3        |        | 637       | 637 | 637 | 636 | 636 | 633 | 630 | 635 | 635 | 636 | 636 | 631 | 636 | 630 | 624 | 636 | 635 | 637 | 628 | 627 | 623                                  | 615 | 626           | 626 | 632  |    |
| 4        |        | 631       | 630 | 630 | 630 | 627 | 631 | 626 | 624 | 627 | 620 | 624 | 625 | 630 | 625 | 620 | 615 | 620 | 630 | 635 | 636 | 619                                  | 620 | 625           | 624 | 626  |    |
| 5        | U      | 625       | 619 | 620 | 625 | 625 | 625 | 617 | 619 | 615 | 600 | 625 | 628 | 614 | 631 | 632 | 627 | 626 | 633 | 633 | 630 | 620                                  | 619 | 626           | 620 | 623  |    |
| 6        |        | 623       | 621 | 619 | 615 | 613 | 613 | 615 | 621 | 624 | 624 | 625 | 626 | 624 | 618 | 616 | 618 | 619 | 625 | 629 | 626 | 625                                  | 625 | 624           | 627 | 621  |    |
| 7        |        | 626       | 625 | 624 | 626 | 626 | 624 | 627 | 627 | 630 | 630 | 627 | 630 | 630 | 626 | 623 | 620 | 623 | 625 | 631 | 632 | 631                                  | 631 | 631           | 632 | 627  |    |
| 8        |        | 632       | 632 | 630 | 630 | 631 | 630 | 631 | 632 | 635 | 636 | 636 | 637 | 636 | 625 | 608 | 605 | 609 | 619 | 630 | 634 | 633                                  | 637 | 637           | 637 | 629  |    |
| 9        | U      | 636       | 635 | 631 | 634 | 631 | 635 | 635 | 635 | 636 | 636 | 636 | 636 | 636 | 631 | 626 | 619 | 616 | 619 | 623 | 630 | 637                                  | 646 | 646           | 643 | 633  |    |
| 10       |        | 637       | 636 | 635 | 635 | 632 | 635 | 635 | 635 | 633 | 638 | 637 | 641 | 642 | 637 | 632 | 625 | 620 | 626 | 631 | 635 | 646                                  | 636 | 627           | 632 | 634  |    |
| 11       |        | 626       | 626 | 626 | 626 | 625 | 625 | 626 | 630 | 632 | 635 | 638 | 632 | 635 | 631 | 627 | 629 | 624 | 624 | 626 | 631 | 632                                  | 625 | 619           | 614 | 628  |    |
| 12       |        | 610       | 619 | 620 | 621 | 623 | 615 | 620 | 621 | 625 | 623 | 626 | 631 | 628 | 625 | 624 | 623 | 621 | 625 | 628 | 631 | 629                                  | 631 | 631           | 631 | 624  |    |
| 13       |        | 630       | 626 | 621 | 619 | 620 | 625 | 624 | 625 | 626 | 631 | 631 | 628 | 621 | 614 | 607 | 604 | 614 | 626 | 630 | 630 | 632                                  | 636 | 636           | 636 | 624  |    |
| 14       | U      | 635       | 632 | 631 | 630 | 630 | 632 | 632 | 635 | 636 | 636 | 635 | 636 | 633 | 631 | 625 | 621 | 615 | 615 | 624 | 627 | 631                                  | 630 | 632           | 636 | 630  |    |
| 15       |        | 634       | 634 | 633 | 633 | 632 | 633 | 636 | 637 | 641 | 641 | 641 | 647 | 645 | 640 | 639 | 637 | 632 | 631 | 634 | 641 | 635                                  | 631 | 635           | 637 | 637  |    |
| 16       |        | 633       | 627 | 624 | 623 | 625 | 625 | 628 | 633 | 631 | 633 | 637 | 637 | 635 | 633 | 631 | 633 | 636 | 637 | 637 | 637 | 631                                  | 626 | 631           | 635 | 632  |    |
| 17       |        | 636       | 636 | 635 | 635 | 635 | 636 | 637 | 640 | 641 | 642 | 642 | 642 | 641 | 634 | 625 | 627 | 620 | 619 | 620 | 624 | 626                                  | 631 | 636           | 636 | 633  |    |
| 18       |        | 636       | 633 | 631 | 631 | 636 | 637 | 636 | 636 | 635 | 636 | 637 | 637 | 636 | 635 | 631 | 631 | 631 | 632 | 637 | 641 | 646                                  | 646 | 646           | 642 | 636  |    |
| 19       | U      | 637       | 637 | 638 | 638 | 637 | 635 | 639 | 641 | 637 | 641 | 642 | 645 | 642 | 636 | 621 | 608 | 605 | 632 | 632 | 635 | 622                                  | 623 | 614           | 615 | 631  |    |
| 20       | U      | 616       | 599 | 609 | 615 | 612 | 610 | 625 | 605 | 613 | 593 | 617 | 625 | 626 | 605 | 608 | 608 | 608 | 614 | 620 | 630 | 631                                  | 637 | 631           | 631 | 616  |    |
| 21       |        | 631       | 629 | 627 | 626 | 626 | 628 | 628 | 627 | 625 | 626 | 630 | 627 | 625 | 620 | 615 | 609 | 605 | 610 | 619 | 625 | 627                                  | 631 | 632           | 635 | 624  |    |
| 22       |        | 636       | 637 | 636 | 636 | 636 | 636 | 636 | 635 | 635 | 636 | 639 | 637 | 624 | 614 | 593 | 603 | 603 | 605 | 599 | 605 | 608                                  | 605 | 604           | 623 | 622  |    |
| 23       | U      | 620       | 620 | 625 | 619 | 624 | 576 | 567 | 578 | 560 | 566 | 621 | 630 | 624 | 614 | 607 | 594 | 593 | 605 | 608 | 618 | 596                                  | 615 | 624           | 620 | 606  |    |
| 24       | U      | 630       | 631 | 630 | 630 | 614 | 623 | 620 | 599 | 626 | 626 | 626 | 620 | 612 | 626 | 623 | 615 | 609 | 615 | 624 | 609 | 615                                  | 631 | 631           | 631 | 622  |    |
| 25       |        | 631       | 636 | 631 | 626 | 626 | 626 | 625 | 630 | 633 | 635 | 637 | 636 | 629 | 629 | 625 | 619 | 619 | 618 | 626 | 635 | 636                                  | 636 | 627           | 631 | 629  |    |
| 26       | U      | 633       | 633 | 635 | 632 | 632 | 634 | 635 | 632 | 632 | 635 | 635 | 635 | 631 | 630 | 623 | 615 | 615 | 620 | 626 | 632 | 635                                  | 637 | 637           | 636 | 631  |    |
| 27       |        | 635       | 636 | 636 | 636 | 636 | 640 | 634 | 630 | 626 | 630 | 635 | 637 | 635 | 628 | 623 | 619 | 616 | 619 | 625 | 632 | 636                                  | 637 | 637           | 636 | 631  |    |
| 28       | U      | 637       | 637 | 637 | 636 | 636 | 636 | 638 | 638 | 640 | 640 | 641 | 639 | 637 | 631 | 629 | 630 | 626 | 629 | 632 | 637 | 637                                  | 639 | 642           | 645 | 636  |    |
| MEAN ALL |        | 631       | 629 | 629 | 629 | 628 | 627 | 628 | 628 | 629 | 628 | 633 | 634 | 632 | 628 | 623 | 620 | 619 | 624 | 628 | 631 | 629                                  | 630 | 631           | 632 | 628  |    |
| MEAN U   |        | 635       | 633 | 631 | 631 | 631 | 633 | 634 | 634 | 636 | 637 | 637 | 637 | 635 | 632 | 629 | 625 | 627 | 629 | 633 | 637 | 634                                  | 637 | 639           | 640 | 634  |    |
| MEAN U   |        | 626       | 621 | 624 | 625 | 623 | 614 | 618 | 608 | 610 | 605 | 626 | 630 | 624 | 622 | 618 | 611 | 608 | 620 | 624 | 624 | 617                                  | 625 | 625           | 623 | 620  |    |

## DECLINATION

TABLE 5 AGINCOURT

D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES

FEBRUARY 1966

| DAY      | HOUR<br>UT | DECLINATION |        |        |        |        |        |        |        |        |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          | MEAN |      |
|----------|------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|------|
|          |            | 0<br>1      | 1<br>2 | 2<br>3 | 3<br>4 | 4<br>5 | 5<br>6 | 6<br>7 | 7<br>8 | 8<br>9 | 9<br>10 | 10<br>11 | 11<br>12 | 12<br>13 | 13<br>14 | 14<br>15 | 15<br>16 | 16<br>17 | 17<br>18 | 18<br>19 | 19<br>20 | 20<br>21 | 21<br>22 | 22<br>23 | 23<br>24 |      |      |
| 1        | 0          | 31.8        | 31.7   | 31.4   | 31.6   | 31.3   | 31.6   | 31.8   | 32.7   | 33.2   | 31.8    | 31.8     | 32.1     | 31.7     | 30.9     | 29.8     | 29.8     | 30.8     | 31.9     | 32.6     | 32.7     | 32.9     | 33.1     | 32.8     | 31.9     | 31.8 |      |
| 2        |            | 31.7        | 31.7   | 31.6   | 31.6   | 31.2   | 31.7   | 31.8   | 31.8   | 31.8   | 31.3    | 31.7     | 31.1     | 30.9     | 31.0     | 30.1     | 31.0     | 33.3     | 34.8     | 34.9     | 34.8     | 35.0     | 34.0     | 32.5     | 31.9     | 32.2 |      |
| 3        |            | 31.9        | 31.9   | 31.9   | 31.8   | 31.8   | 31.7   | 33.0   | 31.0   | 30.6   | 30.7    | 31.0     | 33.2     | 33.2     | 30.7     | 32.0     | 33.1     | 33.4     | 34.1     | 35.4     | 36.5     | 38.6     | 35.4     | 35.0     | 34.1     | 33.0 |      |
| 4        |            | 33.0        | 29.3   | 31.2   | 30.9   | 31.0   | 32.2   | 31.2   | 31.0   | 31.3   | 27.9    | 29.4     | 30.1     | 32.2     | 30.0     | 30.2     | 32.0     | 32.0     | 33.0     | 33.5     | 34.3     | 35.3     | 32.4     | 34.2     | 28.7     | 31.5 |      |
| 5        | 0          | 31.2        | 32.4   | 29.3   | 30.9   | 32.0   | 32.0   | 29.4   | 30.0   | 27.2   | 34.5    | 31.9     | 26.9     | 32.7     | 30.7     | 30.9     | 33.5     | 36.9     | 38.7     | 38.5     | 37.4     | 37.3     | 35.5     | 34.7     | 34.4     | 32.9 |      |
| 6        |            | 31.8        | 32.5   | 31.2   | 26.8   | 26.9   | 31.4   | 34.7   | 34.2   | 30.7   | 29.8    | 30.4     | 31.0     | 31.1     | 31.0     | 31.9     | 31.9     | 33.1     | 34.2     | 34.3     | 34.0     | 33.6     | 33.9     | 33.5     | 33.3     | 32.0 |      |
| 7        |            | 32.4        | 32.1   | 32.1   | 31.3   | 32.0   | 31.6   | 32.1   | 31.8   | 31.9   | 31.9    | 32.1     | 32.2     | 31.5     | 30.9     | 30.2     | 30.3     | 31.3     | 33.1     | 34.5     | 34.5     | 33.3     | 32.4     | 32.5     | 32.2     | 32.1 |      |
| 8        |            | 31.9        | 31.8   | 31.9   | 31.2   | 31.9   | 32.9   | 32.4   | 32.2   | 32.2   | 32.2    | 32.1     | 32.0     | 31.6     | 30.2     | 29.0     | 29.1     | 32.2     | 34.2     | 35.1     | 36.2     | 36.3     | 34.7     | 34.2     | 33.2     | 32.1 | 32.5 |
| 9        | 0          | 31.3        | 31.2   | 31.1   | 31.3   | 32.2   | 32.1   | 32.1   | 31.9   | 31.8   | 31.5    | 31.7     | 31.4     | 30.5     | 28.5     | 28.3     | 29.9     | 31.5     | 33.2     | 35.1     | 35.6     | 34.5     | 33.5     | 33.2     | 33.3     | 32.0 |      |
| 10       |            | 33.0        | 32.9   | 32.0   | 31.8   | 31.3   | 31.3   | 31.8   | 31.2   | 31.2   | 31.0    | 31.0     | 30.8     | 29.7     | 28.9     | 28.5     | 30.4     | 33.1     | 36.2     | 38.4     | 38.7     | 38.4     | 37.6     | 34.9     | 33.3     | 32.8 |      |
| 11       |            | 30.9        | 29.2   | 28.8   | 32.3   | 31.3   | 32.4   | 33.0   | 33.0   | 33.0   | 29.7    | 29.9     | 30.0     | 31.8     | 30.9     | 32.1     | 32.0     | 32.0     | 34.8     | 34.4     | 34.2     | 33.1     | 33.0     | 33.2     | 33.2     | 32.0 |      |
| 12       |            | 33.0        | 31.9   | 31.3   | 29.6   | 27.5   | 30.9   | 32.3   | 33.8   | 33.0   | 30.7    | 31.1     | 30.9     | 30.0     | 28.9     | 29.8     | 32.0     | 34.1     | 34.7     | 34.2     | 34.0     | 33.3     | 33.1     | 33.0     | 32.8     | 31.9 |      |
| 13       |            | 32.2        | 32.8   | 30.6   | 29.8   | 31.9   | 31.5   | 31.8   | 31.6   | 31.2   | 30.9    | 30.9     | 30.9     | 29.6     | 27.7     | 28.8     | 31.8     | 35.2     | 37.0     | 35.4     | 34.6     | 33.7     | 33.1     | 33.0     | 32.9     | 32.0 |      |
| 14       | 0          | 32.5        | 32.5   | 32.0   | 32.0   | 31.9   | 32.2   | 32.2   | 32.2   | 32.0   | 31.9    | 31.9     | 31.9     | 31.0     | 30.6     | 30.0     | 31.7     | 33.2     | 35.2     | 36.0     | 34.4     | 33.1     | 33.1     | 33.2     | 32.8     | 32.5 |      |
| 15       |            | 32.9        | 31.9   | 31.9   | 31.8   | 31.8   | 32.0   | 32.2   | 31.7   | 31.7   | 31.6    | 31.5     | 30.9     | 31.0     | 31.0     | 31.7     | 33.0     | 35.0     | 36.2     | 36.2     | 35.4     | 33.7     | 32.5     | 33.1     | 32.7     | 32.7 |      |
| 16       |            | 31.8        | 31.6   | 31.9   | 31.5   | 32.7   | 32.9   | 35.0   | 33.1   | 30.8   | 30.7    | 30.6     | 30.8     | 31.1     | 30.5     | 31.1     | 33.0     | 34.2     | 34.1     | 33.1     | 32.5     | 31.6     | 31.8     | 32.9     | 32.9     | 32.2 |      |
| 17       |            | 32.8        | 32.4   | 32.1   | 32.1   | 32.1   | 31.9   | 31.8   | 31.8   | 31.7   | 30.9    | 30.8     | 30.8     | 30.3     | 29.6     | 31.0     | 31.1     | 32.9     | 34.2     | 34.6     | 33.7     | 32.4     | 32.1     | 32.7     | 32.1     | 32.0 |      |
| 18       |            | 31.8        | 31.8   | 31.8   | 32.2   | 31.8   | 31.6   | 33.0   | 33.0   | 31.5   | 30.8    | 30.5     | 30.3     | 29.8     | 29.8     | 30.5     | 33.1     | 35.9     | 37.1     | 36.8     | 35.1     | 33.0     | 31.7     | 31.8     | 31.9     | 32.4 |      |
| 19       | 0          | 31.8        | 32.1   | 32.1   | 31.8   | 32.2   | 32.8   | 35.3   | 32.9   | 30.3   | 29.6    | 29.8     | 29.6     | 28.9     | 30.9     | 33.1     | 35.9     | 37.5     | 43.5     | 41.0     | 42.2     | 41.7     | 36.2     | 34.8     | 31.6     | 34.1 |      |
| 20       | 0          | 30.5        | 25.5   | 28.8   | 31.6   | 29.7   | 28.8   | 31.7   | 29.9   | 32.1   | 37.9    | 32.9     | 29.5     | 29.6     | 33.7     | 32.3     | 34.0     | 35.9     | 36.0     | 36.0     | 34.9     | 33.2     | 32.1     | 32.1     | 32.5     | 32.1 |      |
| 21       |            | 32.1        | 32.1   | 31.9   | 32.2   | 32.8   | 32.8   | 32.9   | 32.5   | 33.1   | 33.1    | 31.8     | 31.7     | 30.8     | 29.7     | 30.9     | 33.1     | 35.0     | 36.0     | 36.1     | 35.0     | 34.0     | 32.9     | 32.7     | 32.6     | 32.8 |      |
| 22       |            | 32.1        | 31.9   | 32.2   | 32.5   | 32.7   | 32.2   | 32.2   | 32.2   | 32.1   | 31.6    | 30.8     | 30.7     | 34.0     | 31.7     | 34.3     | 34.0     | 37.2     | 36.3     | 36.2     | 37.4     | 38.2     | 37.5     | 32.6     | 30.8     | 33.5 |      |
| 23       | 0          | 31.7        | 29.0   | 31.0   | 28.8   | 28.8   | 25.4   | 26.6   | 25.0   | 37.1   | 44.3    | 28.7     | 29.7     | 28.8     | 28.4     | 31.1     | 33.2     | 34.8     | 35.1     | 36.7     | 38.5     | 36.9     | 35.0     | 32.9     | 34.2     | 32.2 |      |
| 24       | 0          | 30.5        | 30.7   | 29.5   | 29.7   | 30.9   | 36.1   | 30.5   | 39.4   | 32.8   | 30.7    | 32.7     | 32.8     | 33.8     | 30.7     | 28.7     | 30.4     | 32.9     | 34.3     | 33.8     | 35.1     | 33.1     | 33.1     | 32.7     | 29.4     | 32.3 |      |
| 25       |            | 29.6        | 27.6   | 27.8   | 30.8   | 30.4   | 30.8   | 32.9   | 33.6   | 32.0   | 30.7    | 31.3     | 31.0     | 32.7     | 30.5     | 29.6     | 30.9     | 33.9     | 35.3     | 36.0     | 35.8     | 35.0     | 33.6     | 30.9     | 30.9     | 31.8 |      |
| 26       | 0          | 32.0        | 31.8   | 32.0   | 32.0   | 32.0   | 31.8   | 31.5   | 31.6   | 32.1   | 31.7    | 31.5     | 31.0     | 30.9     | 30.9     | 30.7     | 31.7     | 33.0     | 34.9     | 35.7     | 35.7     | 34.4     | 33.0     | 32.8     | 32.8     | 32.4 |      |
| 27       |            | 32.4        | 32.0   | 31.8   | 32.4   | 32.3   | 32.7   | 29.8   | 29.6   | 29.9   | 32.0    | 32.1     | 30.5     | 29.4     | 29.9     | 32.0     | 33.9     | 35.0     | 34.9     | 34.2     | 33.8     | 32.8     | 32.8     | 32.8     | 32.8     | 32.0 |      |
| 28       | 0          | 32.8        | 32.7   | 32.1   | 32.0   | 32.0   | 32.0   | 32.1   | 31.6   | 31.5   | 31.3    | 30.9     | 30.7     | 30.5     | 29.6     | 29.6     | 30.6     | 32.1     | 34.1     | 35.1     | 34.9     | 34.1     | 33.8     | 33.6     | 32.9     | 32.2 |      |
| MEAN ALL |            | 31.9        | 31.3   | 31.2   | 31.2   | 31.3   | 31.8   | 32.0   | 32.0   | 31.8   | 31.9    | 31.2     | 30.9     | 31.0     | 30.2     | 30.6     | 32.1     | 33.9     | 35.3     | 35.5     | 35.4     | 34.7     | 33.7     | 33.1     | 32.4     | 32.3 |      |
| MEAN 0   |            | 32.1        | 32.0   | 31.7   | 31.8   | 31.9   | 31.9   | 31.9   | 32.0   | 32.1   | 31.7    | 31.6     | 31.4     | 30.9     | 30.1     | 29.7     | 30.8     | 32.1     | 33.9     | 34.9     | 34.7     | 33.8     | 33.3     | 33.1     | 32.7     | 32.2 |      |
| MEAN U   |            | 31.1        | 29.9   | 30.1   | 30.6   | 30.7   | 31.0   | 30.7   | 31.4   | 31.9   | 35.4    | 31.2     | 29.7     | 30.7     | 30.9     | 31.2     | 33.4     | 35.6     | 37.5     | 37.2     | 37.6     | 36.5     | 34.4     | 33.4     | 32.4     | 32.7 |      |

## VERTICAL INTENSITY

| TABLE 6 |      | AGINCOURT           |                     |                     |                     |                     |                     |                     |                     |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | Z = 56000 + TABULAR VALUES IN GAMMAS |                      | FEBRUARY 1966        |                      |    |      |  |
|---------|------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------------------|----------------------|----------------------|----------------------|----|------|--|
| DAY     | HOOR | 0                   | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   | 8                   | 9                    | 10                   | 11                   | 12                   | 13                   | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                                   | 21                   | 22                   | 23                   | 24 | MEAN |  |
|         | UT   | T <sub>0</sub><br>1 | T <sub>0</sub><br>2 | T <sub>0</sub><br>3 | T <sub>0</sub><br>4 | T <sub>0</sub><br>5 | T <sub>0</sub><br>6 | T <sub>0</sub><br>7 | T <sub>0</sub><br>8 | T <sub>0</sub><br>9 | T <sub>0</sub><br>10 | T <sub>0</sub><br>11 | T <sub>0</sub><br>12 | T <sub>0</sub><br>13 | T <sub>0</sub><br>14 | T <sub>0</sub><br>15 | T <sub>0</sub><br>16 | T <sub>0</sub><br>17 | T <sub>0</sub><br>18 | T <sub>0</sub><br>19 | T <sub>0</sub><br>20 | T <sub>0</sub><br>21                 | T <sub>0</sub><br>22 | T <sub>0</sub><br>23 | T <sub>0</sub><br>24 |    |      |  |
| 1       | Q    | 32                  | 32                  | 33                  | 33                  | 33                  | 33                  | 32                  | 32                  | 27                  | 28                   | 29                   | 31                   | 31                   | 28                   | 28                   | 25                   | 22                   | 25                   | 28                   | 31                   | 31                                   | 31                   | 31                   | 30                   | 30 |      |  |
| 2       |      | 29                  | 29                  | 29                  | 28                  | 28                  | 27                  | 28                  | 28                  | 28                  | 27                   | 27                   | 27                   | 27                   | 23                   | 20                   | 19                   | 25                   | 31                   | 32                   | 31                   | 28                                   | 28                   | 28                   | 28                   | 28 | 27   |  |
| 3       |      | 27                  | 27                  | 27                  | 27                  | 27                  | 27                  | 25                  | 22                  | 25                  | 25                   | 25                   | 25                   | 25                   | 24                   | 23                   | 22                   | 23                   | 27                   | 22                   | 27                   | 32                                   | 39                   | 38                   | 37                   | 27 |      |  |
| 4       |      | 37                  | 36                  | 34                  | 34                  | 32                  | 32                  | 29                  | 28                  | 20                  | 9                    | 21                   | 22                   | 28                   | 27                   | 26                   | 28                   | 32                   | 29                   | 24                   | 29                   | 33                                   | 38                   | 39                   | 43                   | 30 |      |  |
| 5       | U    | 39                  | 40                  | 43                  | 38                  | 28                  | 12                  | 25                  | 28                  | 25                  | 20                   | 6                    | 10                   | 16                   | 15                   | 15                   | 16                   | 20                   | 24                   | 29                   | 33                   | 35                                   | 40                   | 39                   | 43                   | 27 |      |  |
| 6       |      | 40                  | 44                  | 44                  | 38                  | 36                  | 39                  | 37                  | 33                  | 33                  | 33                   | 33                   | 33                   | 33                   | 33                   | 33                   | 33                   | 33                   | 33                   | 33                   | 34                   | 33                                   | 34                   | 35                   | 37                   | 35 |      |  |
| 7       |      | 37                  | 38                  | 38                  | 38                  | 35                  | 35                  | 34                  | 33                  | 33                  | 33                   | 33                   | 34                   | 35                   | 34                   | 33                   | 30                   | 29                   | 29                   | 29                   | 33                   | 33                                   | 34                   | 33                   | 34                   | 34 | 34   |  |
| 8       |      | 34                  | 33                  | 33                  | 33                  | 33                  | 32                  | 33                  | 33                  | 33                  | 30                   | 29                   | 29                   | 33                   | 32                   | 29                   | 34                   | 37                   | 35                   | 33                   | 34                   | 34                                   | 37                   | 34                   | 34                   | 33 | 33   |  |
| 9       | Q    | 33                  | 33                  | 33                  | 33                  | 33                  | 33                  | 33                  | 32                  | 30                  | 29                   | 29                   | 29                   | 32                   | 29                   | 24                   | 22                   | 23                   | 24                   | 24                   | 28                   | 32                                   | 31                   | 28                   | 28                   | 29 | 29   |  |
| 10      |      | 28                  | 31                  | 31                  | 31                  | 24                  | 28                  | 28                  | 28                  | 28                  | 26                   | 25                   | 26                   | 25                   | 22                   | 20                   | 21                   | 22                   | 26                   | 28                   | 26                   | 28                                   | 29                   | 33                   | 33                   | 27 | 27   |  |
| 11      |      | 33                  | 33                  | 32                  | 33                  | 33                  | 33                  | 33                  | 32                  | 24                  | 23                   | 23                   | 23                   | 26                   | 21                   | 18                   | 21                   | 20                   | 23                   | 28                   | 28                   | 29                                   | 32                   | 32                   | 34                   | 28 | 28   |  |
| 12      |      | 38                  | 38                  | 35                  | 33                  | 28                  | 28                  | 29                  | 30                  | 31                  | 28                   | 28                   | 29                   | 30                   | 28                   | 23                   | 22                   | 26                   | 32                   | 33                   | 32                   | 29                                   | 29                   | 31                   | 30                   | 30 | 30   |  |
| 13      |      | 29                  | 29                  | 29                  | 32                  | 34                  | 33                  | 30                  | 33                  | 33                  | 34                   | 33                   | 32                   | 33                   | 31                   | 24                   | 24                   | 24                   | 32                   | 33                   | 32                   | 33                                   | 33                   | 33                   | 31                   | 31 | 31   |  |
| 14      | U    | 29                  | 29                  | 29                  | 30                  | 32                  | 30                  | 30                  | 30                  | 30                  | 29                   | 28                   | 28                   | 29                   | 28                   | 23                   | 21                   | 21                   | 26                   | 28                   | 31                   | 33                                   | 32                   | 28                   | 31                   | 29 | 29   |  |
| 15      |      | 31                  | 27                  | 26                  | 26                  | 25                  | 28                  | 28                  | 28                  | 27                  | 25                   | 27                   | 27                   | 25                   | 23                   | 22                   | 21                   | 22                   | 27                   | 28                   | 31                   | 27                                   | 26                   | 27                   | 30                   | 26 | 26   |  |
| 16      |      | 28                  | 28                  | 32                  | 32                  | 32                  | 32                  | 27                  | 25                  | 28                  | 31                   | 28                   | 29                   | 29                   | 27                   | 22                   | 20                   | 22                   | 28                   | 32                   | 33                   | 31                                   | 31                   | 31                   | 32                   | 29 | 29   |  |
| 17      |      | 30                  | 30                  | 30                  | 30                  | 28                  | 28                  | 28                  | 28                  | 28                  | 28                   | 27                   | 27                   | 27                   | 27                   | 27                   | 23                   | 21                   | 25                   | 27                   | 29                   | 32                                   | 32                   | 32                   | 33                   | 28 | 28   |  |
| 18      |      | 32                  | 32                  | 32                  | 32                  | 31                  | 25                  | 27                  | 26                  | 27                  | 27                   | 28                   | 28                   | 28                   | 29                   | 27                   | 21                   | 21                   | 24                   | 27                   | 31                   | 32                                   | 31                   | 28                   | 28                   | 28 | 28   |  |
| 19      | U    | 26                  | 28                  | 28                  | 28                  | 28                  | 29                  | 27                  | 20                  | 27                  | 28                   | 28                   | 27                   | 27                   | 27                   | 22                   | 23                   | 24                   | 27                   | 29                   | 38                   | 46                                   | 51                   | 49                   | 52                   | 31 | 31   |  |
| 20      | U    | 46                  | 44                  | 47                  | 39                  | 32                  | 20                  | 5                   | 15                  | 30                  | 8                    | 20                   | 19                   | 20                   | 28                   | 21                   | 26                   | 25                   | 33                   | 38                   | 38                   | 38                                   | 38                   | 34                   | 34                   | 29 | 29   |  |
| 21      |      | 33                  | 33                  | 33                  | 34                  | 34                  | 33                  | 33                  | 33                  | 33                  | 33                   | 33                   | 33                   | 36                   | 36                   | 34                   | 33                   | 37                   | 38                   | 42                   | 43                   | 39                                   | 38                   | 37                   | 36                   | 35 | 35   |  |
| 22      |      | 33                  | 33                  | 33                  | 33                  | 33                  | 32                  | 32                  | 32                  | 31                  | 31                   | 30                   | 27                   | 28                   | 32                   | 32                   | 33                   | 35                   | 32                   | 42                   | 50                   | 49                                   | 55                   | 66                   | 52                   | 37 | 37   |  |
| 23      | U    | 43                  | 38                  | 37                  | 32                  | -13                 | -21                 | -1                  | -36                 | -62                 | -64                  | 3                    | 23                   | 34                   | 34                   | 33                   | 31                   | 32                   | 33                   | 34                   | 41                   | 60                                   | 55                   | 50                   | 48                   | 19 | 19   |  |
| 24      | U    | 43                  | 39                  | 38                  | 37                  | 32                  | 18                  | 17                  | 4                   | 19                  | 25                   | 27                   | 25                   | 33                   | 33                   | 27                   | 28                   | 28                   | 32                   | 34                   | 38                   | 43                                   | 42                   | 38                   | 37                   | 31 | 31   |  |
| 25      |      | 36                  | 33                  | 31                  | 35                  | 34                  | 32                  | 29                  | 28                  | 33                  | 29                   | 30                   | 30                   | 30                   | 28                   | 26                   | 24                   | 23                   | 23                   | 28                   | 28                   | 30                                   | 33                   | 34                   | 34                   | 30 | 30   |  |
| 26      | Q    | 33                  | 33                  | 32                  | 32                  | 32                  | 32                  | 29                  | 31                  | 31                  | 29                   | 29                   | 30                   | 32                   | 29                   | 26                   | 23                   | 22                   | 26                   | 24                   | 32                   | 33                                   | 33                   | 33                   | 33                   | 30 | 30   |  |
| 27      |      | 32                  | 32                  | 31                  | 32                  | 32                  | 23                  | 21                  | 23                  | 28                  | 29                   | 28                   | 28                   | 28                   | 24                   | 23                   | 19                   | 16                   | 22                   | 28                   | 29                   | 29                                   | 29                   | 29                   | 29                   | 27 | 27   |  |
| 28      | U    | 30                  | 30                  | 29                  | 29                  | 30                  | 30                  | 29                  | 29                  | 29                  | 29                   | 29                   | 29                   | 29                   | 27                   | 23                   | 19                   | 17                   | 23                   | 28                   | 29                   | 29                                   | 29                   | 30                   | 30                   | 28 | 28   |  |
| MEAN    | ALL  | 34                  | 33                  | 33                  | 32                  | 30                  | 27                  | 27                  | 25                  | 25                  | 24                   | 26                   | 27                   | 29                   | 28                   | 25                   | 24                   | 25                   | 28                   | 30                   | 33                   | 34                                   | 35                   | 35                   | 35                   | 29 | 29   |  |
| MEAN    | Q    | 32                  | 31                  | 31                  | 31                  | 32                  | 32                  | 31                  | 31                  | 30                  | 29                   | 29                   | 29                   | 30                   | 28                   | 25                   | 22                   | 21                   | 25                   | 27                   | 30                   | 32                                   | 31                   | 30                   | 30                   | 29 | 29   |  |
| MEAN    | U    | 40                  | 38                  | 34                  | 35                  | 22                  | 11                  | 14                  | 6                   | 8                   | 4                    | 17                   | 21                   | 26                   | 27                   | 24                   | 25                   | 26                   | 30                   | 33                   | 38                   | 44                                   | 45                   | 42                   | 43                   | 27 | 27   |  |

HORIZONTAL INTENSITY

TABLE 7 AGINCOURT

H = 15500 + TABULAR VALUES IN GAMMAS

MARCH 1966

| DAY      | HOUR<br>UT | 0                   | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   | 8                   | 9                    | 10                   | 11                   | 12                   | 13                   | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                   | 21                   | 22                   | 23                   | MEAN |
|----------|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|
|          |            | T <sub>0</sub><br>1 | T <sub>0</sub><br>2 | T <sub>0</sub><br>3 | T <sub>0</sub><br>4 | T <sub>0</sub><br>5 | T <sub>0</sub><br>6 | T <sub>0</sub><br>7 | T <sub>0</sub><br>8 | T <sub>0</sub><br>9 | T <sub>0</sub><br>10 | T <sub>0</sub><br>11 | T <sub>0</sub><br>12 | T <sub>0</sub><br>13 | T <sub>0</sub><br>14 | T <sub>0</sub><br>15 | T <sub>0</sub><br>16 | T <sub>0</sub><br>17 | T <sub>0</sub><br>18 | T <sub>0</sub><br>19 | T <sub>0</sub><br>20 | T <sub>0</sub><br>21 | T <sub>0</sub><br>22 | T <sub>0</sub><br>23 | T <sub>0</sub><br>24 |      |
| 1        | U          | 642                 | 640                 | 637                 | 636                 | 642                 | 632                 | 635                 | 636                 | 637                 | 640                  | 640                  | 640                  | 640                  | 635                  | 631                  | 629                  | 629                  | 632                  | 634                  | 635                  | 636                  | 637                  | 638                  | 641                  | 636  |
| 2        | U          | 641                 | 641                 | 641                 | 641                 | 641                 | 641                 | 641                 | 641                 | 642                 | 642                  | 643                  | 642                  | 640                  | 632                  | 626                  | 625                  | 625                  | 625                  | 635                  | 641                  | 641                  | 641                  | 642                  | 641                  | 638  |
| 3        |            | 637                 | 632                 | 631                 | 636                 | 641                 | 641                 | 643                 | 642                 | 642                 | 632                  | 647                  | 640                  | 641                  | 637                  | 636                  | 636                  | 636                  | 638                  | 640                  | 647                  | 640                  | 640                  | 619                  | 618                  | 637  |
| 4        |            | 619                 | 625                 | 630                 | 631                 | 625                 | 631                 | 630                 | 631                 | 631                 | 631                  | 636                  | 635                  | 627                  | 620                  | 614                  | 610                  | 614                  | 631                  | 641                  | 652                  | 646                  | 624                  | 632                  | 635                  | 629  |
| 5        |            | 637                 | 635                 | 631                 | 632                 | 631                 | 635                 | 635                 | 631                 | 630                 | 631                  | 635                  | 632                  | 626                  | 621                  | 619                  | 617                  | 619                  | 625                  | 632                  | 635                  | 636                  | 637                  | 636                  | 636                  | 631  |
| 6        |            | 633                 | 635                 | 635                 | 635                 | 636                 | 636                 | 637                 | 638                 | 637                 | 632                  | 637                  | 636                  | 631                  | 626                  | 621                  | 624                  | 621                  | 626                  | 637                  | 644                  | 646                  | 642                  | 640                  | 638                  | 634  |
| 7        | U          | 636                 | 632                 | 635                 | 635                 | 635                 | 636                 | 636                 | 636                 | 636                 | 637                  | 641                  | 641                  | 636                  | 623                  | 616                  | 614                  | 611                  | 620                  | 630                  | 640                  | 642                  | 642                  | 641                  | 640                  | 633  |
| 8        |            | 640                 | 636                 | 635                 | 635                 | 636                 | 637                 | 639                 | 647                 | 647                 | 646                  | 642                  | 642                  | 640                  | 631                  | 621                  | 615                  | 614                  | 620                  | 628                  | 641                  | 647                  | 647                  | 647                  | 646                  | 637  |
| 9        |            | 642                 | 642                 | 641                 | 641                 | 642                 | 641                 | 642                 | 644                 | 646                 | 646                  | 646                  | 652                  | 647                  | 637                  | 624                  | 610                  | 609                  | 614                  | 626                  | 641                  | 638                  | 645                  | 633                  | 631                  | 637  |
| 10       |            | 625                 | 620                 | 625                 | 630                 | 633                 | 632                 | 632                 | 632                 | 637                 | 637                  | 641                  | 640                  | 637                  | 624                  | 620                  | 625                  | 620                  | 621                  | 624                  | 629                  | 636                  | 641                  | 635                  | 636                  | 630  |
| 11       |            | 635                 | 625                 | 625                 | 624                 | 632                 | 636                 | 637                 | 638                 | 638                 | 638                  | 640                  | 638                  | 635                  | 626                  | 619                  | 613                  | 610                  | 612                  | 619                  | 620                  | 627                  | 635                  | 635                  | 631                  | 629  |
| 12       |            | 625                 | 640                 | 641                 | 640                 | 638                 | 640                 | 641                 | 642                 | 642                 | 642                  | 640                  | 638                  | 630                  | 625                  | 615                  | 613                  | 614                  | 619                  | 626                  | 636                  | 642                  | 646                  | 646                  | 646                  | 635  |
| 13       |            | 647                 | 646                 | 647                 | 637                 | 640                 | 642                 | 642                 | 646                 | 643                 | 641                  | 641                  | 640                  | 636                  | 631                  | 631                  | 635                  | 645                  | 647                  | 652                  | 647                  | 646                  | 642                  | 605                  | 610                  | 639  |
| 14       | U          | 620                 | 626                 | 571                 | 556                 | 507                 | 519                 | 375                 | 397                 | 528                 | 560                  | 546                  | 511                  | 578                  | 600                  | 571                  | 577                  | 592                  | 614                  | 621                  | 627                  | 626                  | 636                  | 631                  | 624                  | 567  |
| 15       |            | 620                 | 619                 | 619                 | 614                 | 624                 | 623                 | 625                 | 624                 | 623                 | 623                  | 631                  | 637                  | 630                  | 630                  | 624                  | 606                  | 608                  | 610                  | 610                  | 620                  | 630                  | 625                  | 632                  | 632                  | 622  |
| 16       |            | 628                 | 635                 | 631                 | 625                 | 629                 | 620                 | 626                 | 631                 | 631                 | 630                  | 631                  | 630                  | 624                  | 621                  | 615                  | 607                  | 604                  | 608                  | 614                  | 625                  | 633                  | 631                  | 632                  | 630                  | 625  |
| 17       |            | 635                 | 636                 | 633                 | 630                 | 627                 | 631                 | 634                 | 635                 | 637                 | 636                  | 637                  | 637                  | 630                  | 614                  | 605                  | 605                  | 609                  | 614                  | 625                  | 635                  | 638                  | 637                  | 640                  | 625                  | 629  |
| 18       |            | 632                 | 628                 | 633                 | 633                 | 632                 | 633                 | 636                 | 636                 | 637                 | 638                  | 637                  | 635                  | 630                  | 620                  | 608                  | 604                  | 603                  | 607                  | 616                  | 628                  | 637                  | 641                  | 646                  | 652                  | 629  |
| 19       | U          | 653                 | 652                 | 652                 | 641                 | 642                 | 648                 | 648                 | 651                 | 646                 | 640                  | 646                  | 651                  | 648                  | 636                  | 619                  | 599                  | 594                  | 594                  | 585                  | 605                  | 626                  | 646                  | 624                  | 621                  | 632  |
| 20       |            | 627                 | 634                 | 637                 | 631                 | 633                 | 635                 | 637                 | 637                 | 639                 | 639                  | 640                  | 637                  | 632                  | 620                  | 608                  | 597                  | 588                  | 599                  | 603                  | 616                  | 630                  | 636                  | 637                  | 632                  | 626  |
| 21       |            | 635                 | 630                 | 632                 | 632                 | 625                 | 637                 | 636                 | 635                 | 637                 | 641                  | 641                  | 638                  | 631                  | 620                  | 605                  | 592                  | 586                  | 592                  | 604                  | 626                  | 637                  | 642                  | 645                  | 625                  | 626  |
| 22       |            | 626                 | 640                 | 637                 | 637                 | 640                 | 638                 | 636                 | 640                 | 641                 | 641                  | 642                  | 642                  | 640                  | 630                  | 616                  | 608                  | 611                  | 616                  | 625                  | 635                  | 641                  | 641                  | 630                  | 643                  | 633  |
| 23       | U          | 641                 | 641                 | 635                 | 629                 | 637                 | 620                 | 620                 | 614                 | 585                 | 646                  | 615                  | 605                  | 561                  | 614                  | 554                  | 506                  | 507                  | 538                  | 591                  | 658                  | 619                  | 621                  | 607                  | 608                  | 603  |
| 24       | U          | 610                 | 612                 | 613                 | 613                 | 614                 | 615                 | 615                 | 615                 | 614                 | 614                  | 614                  | 614                  | 611                  | 605                  | 597                  | 584                  | 581                  | 586                  | 593                  | 608                  | 619                  | 626                  | 625                  | 630                  | 610  |
| 25       |            | 627                 | 636                 | 633                 | 635                 | 635                 | 632                 | 636                 | 637                 | 637                 | 640                  | 642                  | 640                  | 637                  | 638                  | 631                  | 611                  | 599                  | 603                  | 610                  | 632                  | 629                  | 636                  | 645                  | 637                  | 631  |
| 26       | U          | 640                 | 640                 | 637                 | 635                 | 636                 | 636                 | 634                 | 641                 | 645                 | 648                  | 651                  | 640                  | 630                  | 632                  | 637                  | 611                  | 597                  | 593                  | 593                  | 613                  | 631                  | 641                  | 647                  | 642                  | 631  |
| 27       |            | 641                 | 626                 | 621                 | 622                 | 631                 | 630                 | 627                 | 631                 | 635                 | 635                  | 637                  | 629                  | 624                  | 621                  | 607                  | 588                  | 592                  | 592                  | 603                  | 621                  | 631                  | 641                  | 646                  | 642                  | 624  |
| 28       | U          | 631                 | 625                 | 630                 | 635                 | 635                 | 631                 | 637                 | 620                 | 622                 | 621                  | 632                  | 637                  | 622                  | 610                  | 619                  | 592                  | 587                  | 577                  | 592                  | 615                  | 651                  | 613                  | 615                  | 620                  | 620  |
| 29       |            | 613                 | 582                 | 598                 | 615                 | 604                 | 605                 | 605                 | 605                 | 619                 | 626                  | 631                  | 630                  | 624                  | 620                  | 611                  | 599                  | 596                  | 603                  | 606                  | 624                  | 631                  | 637                  | 642                  | 641                  | 615  |
| 30       |            | 637                 | 635                 | 627                 | 620                 | 624                 | 628                 | 631                 | 635                 | 636                 | 641                  | 640                  | 635                  | 621                  | 615                  | 610                  | 604                  | 608                  | 620                  | 626                  | 631                  | 637                  | 643                  | 646                  | 646                  | 629  |
| 31       | U          | 643                 | 640                 | 637                 | 637                 | 635                 | 632                 | 632                 | 635                 | 631                 | 630                  | 630                  | 630                  | 631                  | 627                  | 619                  | 604                  | 597                  | 604                  | 616                  | 624                  | 636                  | 642                  | 647                  | 646                  | 629  |
| MEAN ALL |            | 633                 | 632                 | 630                 | 629                 | 629                 | 629                 | 625                 | 627                 | 631                 | 634                  | 635                  | 632                  | 628                  | 624                  | 615                  | 605                  | 604                  | 609                  | 618                  | 630                  | 635                  | 637                  | 635                  | 634                  | 627  |
| MEAN U   |            | 634                 | 633                 | 633                 | 633                 | 634                 | 631                 | 632                 | 633                 | 632                 | 633                  | 634                  | 634                  | 631                  | 624                  | 618                  | 611                  | 609                  | 613                  | 622                  | 630                  | 635                  | 638                  | 639                  | 640                  | 629  |
| MEAN U   |            | 637                 | 637                 | 625                 | 619                 | 612                 | 611                 | 583                 | 585                 | 605                 | 623                  | 614                  | 609                  | 608                  | 618                  | 600                  | 577                  | 576                  | 583                  | 596                  | 623                  | 630                  | 631                  | 625                  | 623                  | 611  |

## DECLINATION

| TABLE 8  |        | AGINCOURT |         | D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES |         |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |      | MARCH 1966 |  |
|----------|--------|-----------|---------|--|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|------------|--|
| DAY      | HOURLY | 0         | 1       | 2  | 3       | 4       | 5       | 6       | 7       | 8       | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       | 19       | 20       | 21       | 22       | 23       | MEAN |            |  |
|          | UT     | TU<br>1   | TU<br>2 | TU<br>3  | TU<br>4 | TU<br>5 | TU<br>6 | TU<br>7 | TU<br>8 | TU<br>9 | TU<br>10 | TU<br>11 | TU<br>12 | TU<br>13 | TU<br>14 | TU<br>15 | TU<br>16 | TU<br>17 | TU<br>18 | TU<br>19 | TU<br>20 | TU<br>21 | TU<br>22 | TU<br>23 | TU<br>24 |      |            |  |
| 1        | Q      | 32.8      | 32.6    | 32.1   | 31.4    | 30.5    | 32.6    | 31.5    | 30.4    | 30.9    | 31.3     | 31.2     | 32.6     | 30.6     | 29.6     | 28.7     | 29.3     | 30.7     | 31.7     | 32.9     | 33.9     | 34.2     | 34.4     | 34.0     | 33.0     | 31.8 |            |  |
| 2        | Q      | 32.8      | 32.6    | 31.8   | 32.0    | 31.7    | 31.6    | 31.7    | 31.7    | 31.6    | 31.1     | 30.8     | 30.6     | 29.6     | 28.7     | 29.6     | 32.1     | 35.8     | 38.1     | 37.8     | 36.1     | 34.9     | 34.0     | 33.6     | 33.0     | 32.6 |            |  |
| 3        |        | 32.8      | 31.5    | 30.9   | 31.7    | 31.8    | 31.8    | 31.6    | 31.5    | 30.7    | 33.1     | 32.5     | 29.5     | 28.6     | 29.4     | 30.6     | 32.6     | 33.9     | 34.2     | 35.0     | 35.0     | 34.1     | 34.9     | 34.8     | 35.7     | 32.4 |            |  |
| 4        |        | 30.7      | 29.8    | 32.7   | 31.7    | 31.7    | 31.8    | 31.1    | 30.8    | 30.7    | 30.9     | 29.6     | 29.2     | 28.6     | 29.3     | 30.5     | 32.8     | 36.0     | 36.8     | 36.1     | 36.2     | 36.3     | 36.5     | 34.7     | 34.0     | 32.4 |            |  |
| 5        |        | 32.9      | 32.8    | 32.7   | 32.7    | 33.5    | 31.0    | 31.8    | 31.0    | 30.8    | 30.9     | 31.8     | 30.4     | 29.6     | 29.7     | 30.9     | 32.6     | 34.1     | 35.1     | 35.2     | 34.9     | 33.7     | 33.0     | 33.1     | 33.5     | 32.4 |            |  |
| 6        |        | 32.7      | 32.8    | 32.8   | 32.2    | 32.6    | 31.4    | 31.8    | 31.8    | 30.9    | 31.8     | 31.1     | 28.9     | 29.5     | 28.9     | 29.8     | 32.8     | 35.0     | 36.4     | 36.8     | 36.3     | 35.2     | 34.0     | 33.2     | 32.9     | 32.6 |            |  |
| 7        | Q      | 32.1      | 29.8    | 30.6   | 31.9    | 32.1    | 32.2    | 31.7    | 31.5    | 30.9    | 30.8     | 30.8     | 30.0     | 28.7     | 28.7     | 30.6     | 32.2     | 35.0     | 36.1     | 36.0     | 35.0     | 33.6     | 32.8     | 32.7     | 32.9     | 32.0 |            |  |
| 8        |        | 32.8      | 32.1    | 31.7   | 32.2    | 32.8    | 32.8    | 33.0    | 33.2    | 31.0    | 30.7     | 31.0     | 31.1     | 29.9     | 28.8     | 29.0     | 31.6     | 34.3     | 36.6     | 38.0     | 37.4     | 36.1     | 34.0     | 32.9     | 32.7     | 32.7 |            |  |
| 9        |        | 32.6      | 32.2    | 32.2   | 32.7    | 32.7    | 32.8    | 32.2    | 31.9    | 31.8    | 31.6     | 31.1     | 30.6     | 28.4     | 27.5     | 26.4     | 27.9     | 31.8     | 34.9     | 36.1     | 36.9     | 35.9     | 35.9     | 36.1     | 35.2     | 32.4 |            |  |
| 10       |        | 30.0      | 32.3    | 32.5   | 32.1    | 31.0    | 32.1    | 32.4    | 32.3    | 33.2    | 30.8     | 29.7     | 29.7     | 28.8     | 29.6     | 34.8     | 34.2     | 35.2     | 37.4     | 38.2     | 38.1     | 36.3     | 34.8     | 33.0     | 32.8     | 33.0 |            |  |
| 11       |        | 32.2      | 31.7    | 26.8   | 30.0    | 32.2    | 32.9    | 32.9    | 32.1    | 31.8    | 31.1     | 31.0     | 30.8     | 29.5     | 27.8     | 27.6     | 28.7     | 31.8     | 35.2     | 37.0     | 38.1     | 36.9     | 35.0     | 33.1     | 34.7     | 32.1 |            |  |
| 12       |        | 31.9      | 32.7    | 32.7   | 32.7    | 32.7    | 32.5    | 32.2    | 31.9    | 31.7    | 32.9     | 31.6     | 31.8     | 29.0     | 29.9     | 29.7     | 31.9     | 34.8     | 36.1     | 36.1     | 35.8     | 35.0     | 33.9     | 33.1     | 33.0     | 32.7 |            |  |
| 13       |        | 32.9      | 32.7    | 32.4   | 32.8    | 32.7    | 32.1    | 32.1    | 30.9    | 30.8    | 30.6     | 29.9     | 29.5     | 28.4     | 27.8     | 28.3     | 31.9     | 35.9     | 37.1     | 39.3     | 40.5     | 40.3     | 39.3     | 35.3     | 35.2     | 33.3 |            |  |
| 14       | Q      | 44.6      | 41.5    | 26.5   | 26.4    | 25.5    | 27.7    | 51.1    | 44.8    | 19.3    | 23.6     | 55.4     | 51.1     | 42.5     | 37.5     | 38.4     | 43.6     | 43.3     | 40.6     | 38.1     | 37.0     | 34.3     | 33.8     | 33.5     | 33.1     | 37.2 |            |  |
| 15       |        | 34.1      | 33.8    | 34.1   | 30.0    | 31.5    | 32.2    | 31.2    | 32.0    | 30.7    | 28.9     | 27.5     | 26.5     | 25.9     | 25.7     | 27.8     | 31.9     | 36.0     | 36.3     | 37.5     | 36.5     | 36.2     | 34.1     | 34.1     | 34.1     | 32.0 |            |  |
| 16       |        | 30.9      | 33.0    | 33.1   | 29.8    | 30.0    | 31.9    | 32.7    | 31.9    | 31.0    | 31.5     | 32.2     | 32.2     | 29.9     | 29.9     | 29.8     | 31.7     | 34.2     | 36.2     | 37.2     | 37.1     | 36.3     | 35.3     | 34.0     | 33.8     | 32.7 |            |  |
| 17       |        | 33.0      | 31.9    | 31.9   | 33.2    | 32.5    | 32.4    | 32.8    | 32.3    | 31.9    | 31.2     | 31.1     | 30.0     | 28.3     | 27.6     | 29.9     | 34.1     | 35.2     | 37.0     | 37.5     | 38.3     | 38.1     | 36.1     | 35.0     | 33.2     | 33.1 |            |  |
| 18       |        | 31.9      | 32.9    | 31.0   | 32.8    | 31.9    | 33.0    | 32.8    | 32.3    | 32.0    | 31.9     | 32.2     | 31.0     | 29.0     | 27.7     | 28.8     | 32.2     | 36.1     | 38.4     | 39.4     | 38.3     | 36.9     | 35.1     | 34.2     | 34.2     | 33.2 |            |  |
| 19       | Q      | 34.0      | 33.5    | 34.1   | 33.0    | 32.0    | 29.8    | 30.8    | 29.3    | 30.0    | 26.9     | 30.0     | 36.5     | 34.1     | 30.9     | 30.0     | 32.2     | 37.6     | 39.5     | 42.3     | 38.5     | 36.9     | 34.2     | 34.1     | 28.9     | 33.3 |            |  |
| 20       |        | 33.1      | 25.2    | 24.5   | 31.7    | 33.0    | 32.9    | 32.8    | 33.1    | 32.8    | 31.8     | 30.8     | 29.6     | 26.9     | 25.8     | 27.0     | 29.9     | 33.4     | 35.9     | 38.3     | 38.3     | 36.9     | 35.0     | 33.2     | 32.5     | 31.8 |            |  |
| 21       |        | 30.9      | 31.9    | 33.0   | 30.9    | 31.3    | 33.2    | 31.7    | 30.9    | 31.9    | 31.7     | 31.2     | 29.9     | 27.8     | 26.5     | 26.4     | 31.0     | 36.0     | 39.1     | 40.3     | 39.3     | 37.5     | 35.4     | 33.1     | 31.4     | 32.6 |            |  |
| 22       |        | 33.6      | 33.0    | 32.8   | 32.2    | 30.8    | 31.6    | 31.8    | 31.9    | 31.8    | 31.9     | 31.8     | 30.7     | 27.8     | 26.2     | 26.7     | 28.8     | 33.8     | 38.2     | 40.3     | 40.1     | 38.3     | 36.4     | 35.0     | 33.1     | 32.9 |            |  |
| 23       | Q      | 32.3      | 32.5    | 31.6   | 31.0    | 29.0    | 28.1    | 27.8    | 31.0    | 38.6    | 32.3     | 44.7     | 30.2     | 41.5     | 28.0     | 35.3     | 51.0     | 52.3     | 49.2     | 42.5     | 40.7     | 44.3     | 38.8     | 36.4     | 33.8     | 36.8 |            |  |
| 24       | Q      | 33.7      | 33.4    | 33.0   | 33.0    | 32.8    | 32.4    | 32.9    | 32.9    | 32.9    | 33.0     | 33.0     | 31.9     | 30.8     | 29.9     | 30.7     | 32.4     | 35.1     | 37.5     | 38.3     | 38.1     | 37.0     | 35.1     | 34.1     | 33.7     | 33.6 |            |  |
| 25       |        | 33.6      | 33.6    | 33.8   | 33.4    | 33.0    | 33.0    | 32.8    | 32.2    | 31.8    | 31.2     | 30.9     | 30.8     | 30.7     | 29.7     | 28.0     | 30.1     | 34.1     | 38.2     | 40.1     | 40.4     | 37.8     | 35.3     | 34.6     | 33.1     | 33.4 |            |  |
| 26       | Q      | 33.3      | 33.3    | 33.1   | 33.0    | 31.6    | 29.4    | 30.1    | 30.2    | 29.7    | 28.8     | 28.9     | 27.0     | 34.1     | 30.8     | 26.7     | 29.1     | 32.5     | 36.2     | 39.4     | 39.5     | 37.2     | 35.1     | 33.3     | 33.4     | 32.3 |            |  |
| 27       |        | 33.3      | 33.0    | 26.9   | 29.8    | 31.1    | 34.4    | 34.9    | 37.3    | 31.7    | 30.5     | 30.9     | 31.7     | 31.2     | 28.8     | 27.8     | 30.0     | 34.0     | 36.0     | 38.2     | 38.6     | 37.6     | 35.9     | 34.2     | 33.1     | 32.9 |            |  |
| 28       | Q      | 30.7      | 29.8    | 32.2   | 33.2    | 33.0    | 31.7    | 31.9    | 28.5    | 27.7    | 24.4     | 36.5     | 42.4     | 42.4     | 39.4     | 36.3     | 34.8     | 38.1     | 42.6     | 40.2     | 38.2     | 29.1     | 38.3     | 37.9     | 33.2     | 34.7 |            |  |
| 29       |        | 31.4      | 24.4    | 24.4   | 22.3    | 26.6    | 29.8    | 27.8    | 29.0    | 30.9    | 31.6     | 32.9     | 31.2     | 29.6     | 26.4     | 25.8     | 27.9     | 32.0     | 35.9     | 38.5     | 39.3     | 38.2     | 36.7     | 35.0     | 33.8     | 30.9 |            |  |
| 30       |        | 33.1      | 32.8    | 31.6   | 31.3    | 33.3    | 32.6    | 32.2    | 32.0    | 32.0    | 31.2     | 31.7     | 31.1     | 29.3     | 27.5     | 28.8     | 29.8     | 32.8     | 35.1     | 36.2     | 37.2     | 38.3     | 37.5     | 36.0     | 35.1     | 32.9 |            |  |
| 31       | Q      | 34.0      | 30.9    | 33.1   | 33.0    | 32.2    | 31.9    | 33.1    | 30.0    | 29.2    | 29.4     | 30.1     | 28.8     | 27.8     | 27.2     | 27.5     | 30.6     | 33.0     | 36.2     | 37.5     | 39.1     | 37.5     | 35.9     | 34.1     | 33.1     | 32.3 |            |  |
| MEAN ALL |        | 32.9      | 32.1    | 31.4   | 31.5    | 31.6    | 31.8    | 32.5    | 32.0    | 31.1    | 30.6     | 32.4     | 31.5     | 30.6     | 29.1     | 29.6     | 32.3     | 35.3     | 37.2     | 37.9     | 37.7     | 36.5     | 35.4     | 34.2     | 33.4     | 32.9 |            |  |
| MEAN Q   |        | 33.1      | 31.9    | 32.1   | 32.3    | 31.8    | 32.1    | 32.2    | 31.4    | 31.1    | 31.1     | 31.2     | 30.8     | 29.5     | 28.8     | 29.4     | 31.3     | 33.9     | 35.9     | 36.5     | 36.4     | 35.4     | 34.4     | 33.7     | 33.2     | 32.5 |            |  |
| MEAN U   |        | 35.0      | 34.1    | 31.5   | 31.3    | 30.2    | 29.4    | 34.4    | 32.8    | 29.1    | 27.2     | 39.1     | 37.5     | 38.9     | 33.3     | 33.4     | 38.1     | 40.7     | 41.6     | 40.5     | 38.8     | 36.4     | 36.1     | 35.0     | 32.5     | 34.9 |            |  |

VERTICAL INTENSITY

| TABLE 9  |        | AGINCOURT |     |     |     |    |     |      |      |      |      |      |      |     |     |    |    |    |    |     |     |     |    |     | Z = 56000 + TABULAR VALUES IN GAMMAS |      | MARCH 1966 |  |  |  |  |
|----------|--------|-----------|-----|-----|-----|----|-----|------|------|------|------|------|------|-----|-----|----|----|----|----|-----|-----|-----|----|-----|--------------------------------------|------|------------|--|--|--|--|
| DAY      | HOURLY | 0         | 1   | 2   | 3   | 4  | 5   | 6    | 7    | 8    | 9    | 10   | 11   | 12  | 13  | 14 | 15 | 16 | 17 | 18  | 19  | 20  | 21 | 22  | 23                                   | MEAN |            |  |  |  |  |
|          | UT     | T0        | T0  | T0  | T0  | T0 | T0  | T0   | T0   | T0   | T0   | T0   | T0   | T0  | T0  | T0 | T0 | T0 | T0 | T0  | T0  | T0  | T0 | T0  | T0                                   |      |            |  |  |  |  |
|          |        | 1         | 2   | 3   | 4   | 5  | 6   | 7    | 8    | 9    | 10   | 11   | 12   | 13  | 14  | 15 | 16 | 17 | 18 | 19  | 20  | 21  | 22 | 23  | 24                                   |      |            |  |  |  |  |
| 1        | Q      | 29        | 29  | 29  | 30  | 26 | 29  | 29   | 29   | 29   | 29   | 29   | 29   | 27  | 26  | 26 | 23 | 21 | 22 | 19  | 20  | 23  | 28 | 30  | 30                                   | 27   |            |  |  |  |  |
| 2        | U      | 30        | 29  | 29  | 29  | 29 | 29  | 29   | 29   | 29   | 29   | 29   | 29   | 30  | 29  | 27 | 23 | 24 | 29 | 30  | 29  | 29  | 27 | 29  | 29                                   | 29   |            |  |  |  |  |
| 3        |        | 29        | 30  | 32  | 31  | 30 | 29  | 29   | 29   | 27   | 22   | 6    | 17   | 22  | 18  | 16 | 13 | 16 | 19 | 24  | 28  | 27  | 30 | 36  | 40                                   | 25   |            |  |  |  |  |
| 4        |        | 45        | 40  | 36  | 34  | 34 | 34  | 34   | 33   | 30   | 33   | 30   | 30   | 29  | 29  | 24 | 24 | 24 | 27 | 29  | 29  | 30  | 35 | 39  | 35                                   | 32   |            |  |  |  |  |
| 5        |        | 33        | 33  | 34  | 35  | 30 | 28  | 28   | 27   | 30   | 30   | 29   | 30   | 29  | 26  | 21 | 19 | 24 | 29 | 29  | 29  | 30  | 32 | 30  | 30                                   | 29   |            |  |  |  |  |
| 6        |        | 33        | 31  | 31  | 30  | 29 | 29  | 29   | 29   | 27   | 26   | 24   | 27   | 28  | 27  | 26 | 24 | 26 | 30 | 30  | 30  | 30  | 31 | 31  | 31                                   | 29   |            |  |  |  |  |
| 7        | U      | 31        | 31  | 31  | 32  | 33 | 30  | 30   | 30   | 30   | 29   | 29   | 29   | 30  | 30  | 29 | 24 | 25 | 30 | 34  | 33  | 34  | 33 | 29  | 30                                   | 30   |            |  |  |  |  |
| 8        |        | 33        | 33  | 33  | 34  | 34 | 30  | 30   | 27   | 27   | 28   | 29   | 29   | 29  | 28  | 25 | 24 | 27 | 30 | 35  | 34  | 33  | 31 | 30  | 29                                   | 30   |            |  |  |  |  |
| 9        |        | 27        | 27  | 26  | 26  | 27 | 26  | 26   | 26   | 26   | 25   | 27   | 28   | 29  | 28  | 24 | 21 | 21 | 21 | 22  | 28  | 28  | 34 | 35  | 40                                   | 27   |            |  |  |  |  |
| 10       |        | 51        | 45  | 39  | 34  | 29 | 32  | 32   | 29   | 28   | 27   | 27   | 28   | 28  | 26  | 25 | 22 | 14 | 21 | 23  | 28  | 30  | 33 | 33  | 33                                   | 30   |            |  |  |  |  |
| 11       |        | 31        | 34  | 29  | 33  | 33 | 30  | 29   | 28   | 29   | 29   | 29   | 30   | 30  | 29  | 27 | 26 | 25 | 27 | 29  | 30  | 34  | 34 | 35  | 36                                   | 30   |            |  |  |  |  |
| 12       |        | 40        | 35  | 33  | 30  | 30 | 30  | 30   | 29   | 27   | 19   | 17   | 20   | 24  | 27  | 23 | 18 | 19 | 24 | 27  | 29  | 29  | 30 | 29  | 29                                   | 27   |            |  |  |  |  |
| 13       |        | 27        | 25  | 27  | 27  | 28 | 27  | 27   | 27   | 27   | 27   | 27   | 26   | 27  | 28  | 27 | 25 | 25 | 28 | 35  | 40  | 51  | 67 | 120 | 124                                  | 38   |            |  |  |  |  |
| 14       | D      | 141       | 208 | 139 | 104 | 24 | -38 | -168 | -156 | -185 | -169 | -167 | -132 | -55 | 1   | 18 | 34 | 29 | 29 | 30  | 35  | 35  | 39 | 40  | 39                                   | -5   |            |  |  |  |  |
| 15       |        | 40        | 39  | 38  | 33  | 33 | 35  | 35   | 34   | 29   | 27   | 23   | 27   | 29  | 29  | 24 | 27 | 30 | 34 | 35  | 36  | 40  | 39 | 40  | 38                                   | 33   |            |  |  |  |  |
| 16       |        | 36        | 35  | 36  | 38  | 29 | 35  | 35   | 34   | 34   | 33   | 30   | 33   | 32  | 34  | 28 | 19 | 17 | 19 | 23  | 29  | 34  | 34 | 35  | 34                                   | 31   |            |  |  |  |  |
| 17       |        | 35        | 34  | 34  | 34  | 35 | 35  | 35   | 34   | 34   | 34   | 34   | 34   | 34  | 30  | 30 | 30 | 30 | 29 | 29  | 30  | 33  | 33 | 35  | 39                                   | 33   |            |  |  |  |  |
| 18       |        | 39        | 36  | 34  | 30  | 30 | 30  | 32   | 33   | 33   | 30   | 30   | 33   | 33  | 30  | 28 | 24 | 24 | 29 | 33  | 33  | 30  | 33 | 33  | 31                                   | 31   |            |  |  |  |  |
| 19       | U      | 30        | 29  | 30  | 34  | 30 | 28  | 29   | 22   | 19   | 17   | 23   | 18   | 6   | 8   | 10 | 12 | 22 | 30 | 34  | 41  | 41  | 44 | 45  | 52                                   | 27   |            |  |  |  |  |
| 20       |        | 45        | 35  | 22  | 29  | 33 | 30  | 30   | 29   | 28   | 29   | 29   | 33   | 34  | 33  | 29 | 27 | 29 | 32 | 34  | 39  | 40  | 39 | 37  | 37                                   | 33   |            |  |  |  |  |
| 21       |        | 37        | 37  | 33  | 34  | 33 | 25  | 24   | 29   | 31   | 29   | 32   | 33   | 33  | 28  | 20 | 22 | 25 | 28 | 32  | 35  | 34  | 33 | 39  | 40                                   | 31   |            |  |  |  |  |
| 22       |        | 39        | 34  | 33  | 32  | 29 | 29  | 30   | 32   | 32   | 32   | 32   | 34   | 34  | 33  | 30 | 24 | 17 | 18 | 25  | 28  | 30  | 34 | 32  | 33                                   | 30   |            |  |  |  |  |
| 23       | D      | 32        | 30  | 30  | 33  | 18 | 11  | 7    | -12  | -78  | -111 | -111 | -59  | -51 | 5   | 6  | 4  | 28 | 56 | 123 | 190 | 120 | 84 | 51  | 44                                   | 19   |            |  |  |  |  |
| 24       | U      | 44        | 43  | 40  | 40  | 43 | 41  | 41   | 41   | 40   | 41   | 41   | 43   | 43  | 40  | 38 | 36 | 39 | 40 | 43  | 46  | 49  | 47 | 44  | 41                                   | 42   |            |  |  |  |  |
| 25       |        | 39        | 39  | 39  | 39  | 38 | 38  | 38   | 37   | 36   | 36   | 34   | 36   | 39  | 34  | 28 | 24 | 28 | 33 | 38  | 39  | 38  | 39 | 39  | 35                                   | 36   |            |  |  |  |  |
| 26       | U      | 38        | 37  | 34  | 35  | 33 | 24  | 34   | 35   | 35   | 33   | 34   | 29   | 25  | 17  | 13 | 11 | 18 | 28 | 38  | 38  | 37  | 39 | 40  | 39                                   | 31   |            |  |  |  |  |
| 27       |        | 39        | 39  | 38  | 35  | 29 | 26  | 15   | -1   | 14   | 29   | 33   | 33   | 34  | 34  | 33 | 33 | 33 | 36 | 39  | 44  | 44  | 44 | 42  | 44                                   | 33   |            |  |  |  |  |
| 28       | D      | 41        | 45  | 47  | 43  | 38 | 35  | 21   | 4    | 7    | -12  | -31  | -40  | -40 | -20 | -7 | 4  | 16 | 28 | 40  | 83  | 149 | 95 | 56  | 49                                   | 27   |            |  |  |  |  |
| 29       |        | 50        | 64  | 51  | 21  | 22 | 32  | 17   | 18   | 24   | 36   | 39   | 39   | 39  | 34  | 27 | 22 | 25 | 27 | 31  | 33  | 36  | 38 | 37  | 33                                   |      |            |  |  |  |  |
| 30       |        | 36        | 36  | 37  | 36  | 26 | 27  | 33   | 33   | 33   | 32   | 32   | 33   | 33  | 37  | 33 | 32 | 32 | 34 | 33  | 33  | 34  | 37 | 42  | 39                                   | 34   |            |  |  |  |  |
| 31       | U      | 38        | 37  | 38  | 37  | 37 | 36  | 32   | 28   | 32   | 32   | 32   | 33   | 34  | 33  | 32 | 32 | 28 | 25 | 27  | 27  | 32  | 34 | 38  | 37                                   | 33   |            |  |  |  |  |
| MEAN ALL |        | 40        | 41  | 38  | 35  | 31 | 28  | 23   | 21   | 18   | 17   | 16   | 20   | 23  | 26  | 24 | 23 | 25 | 29 | 34  | 40  | 41  | 40 | 40  | 40                                   | 30   |            |  |  |  |  |
| MEAN U   |        | 34        | 34  | 33  | 34  | 34 | 33  | 32   | 31   | 32   | 32   | 32   | 33   | 33  | 32  | 30 | 28 | 27 | 29 | 31  | 31  | 33  | 34 | 34  | 33                                   | 32   |            |  |  |  |  |
| MEAN D   |        | 56        | 70  | 56  | 50  | 29 | 12  | -15  | -21  | -40  | -49  | -51  | -37  | -23 | 2   | 8  | 13 | 23 | 34 | 53  | 78  | 76  | 60 | 46  | 45                                   | 20   |            |  |  |  |  |

AGINCOURT MAGNETIC OBSERVATORY 1966

HORIZONTAL INTENSITY

TABLE 10 AGINCOURT H = 15500 + TABULAR VALUES IN GAMMAS APRIL 1966

| DAY      | HOUR |    | 1   |     | 2   |     | 3   |     | 4   |     | 5   |     | 6   |     | 7   |     | 8   |     | 9   |     | 10  |     | 11  |     | 12  |     | 13 |    | 14 |    | 15 |    | 16 |    | 17 |    | 18 |    | 19 |    | 20 |    | 21 |  | 22 |  | 23 |  | 24 |  | MEAN |
|----------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|--|----|--|----|--|------|
|          | UT   | LT | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 |    |  |    |  |    |  |    |  |      |
| 1        | 0    | 0  | 645 | 645 | 644 | 642 | 641 | 641 | 644 | 646 | 648 | 645 | 632 | 605 | 615 | 600 | 601 | 610 | 624 | 635 | 652 | 673 | 635 | 609 | 634 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 1        | 1    | 0  | 615 | 614 | 615 | 647 | 614 | 626 | 625 | 626 | 626 | 623 | 621 | 619 | 610 | 610 | 615 | 625 | 635 | 635 | 635 | 639 | 641 | 637 | 623 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 2        | 0    | 0  | 636 | 633 | 628 | 637 | 636 | 636 | 637 | 636 | 637 | 636 | 630 | 624 | 611 | 604 | 614 | 625 | 635 | 632 | 636 | 637 | 635 | 641 | 631 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 3        | 0    | 0  | 637 | 636 | 634 | 640 | 639 | 635 | 631 | 636 | 630 | 636 | 640 | 639 | 632 | 621 | 613 | 608 | 609 | 631 | 641 | 652 | 650 | 648 | 633 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 4        | 0    | 0  | 636 | 638 | 642 | 642 | 641 | 645 | 642 | 642 | 646 | 645 | 641 | 632 | 621 | 614 | 615 | 621 | 626 | 635 | 640 | 642 | 647 | 651 | 637 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 5        | 0    | 0  | 644 | 640 | 642 | 643 | 641 | 642 | 643 | 641 | 641 | 642 | 642 | 642 | 643 | 641 | 642 | 646 | 647 | 647 | 647 | 648 | 647 | 651 | 639 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 6        | 0    | 0  | 644 | 640 | 642 | 643 | 641 | 641 | 641 | 641 | 641 | 642 | 642 | 625 | 614 | 608 | 599 | 609 | 615 | 624 | 637 | 640 | 647 | 655 | 633 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 7        | 0    | 0  | 646 | 626 | 610 | 624 | 631 | 632 | 632 | 634 | 635 | 636 | 632 | 625 | 614 | 598 | 592 | 601 | 619 | 635 | 642 | 650 | 642 | 645 | 628 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 8        | 0    | 0  | 637 | 631 | 625 | 628 | 640 | 631 | 632 | 636 | 637 | 640 | 641 | 641 | 633 | 620 | 611 | 610 | 621 | 633 | 650 | 652 | 648 | 642 | 634 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 9        | 0    | 0  | 652 | 644 | 646 | 644 | 637 | 638 | 642 | 641 | 646 | 646 | 643 | 646 | 641 | 631 | 613 | 604 | 611 | 621 | 630 | 637 | 641 | 646 | 637 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 10       | 0    | 0  | 648 | 642 | 643 | 641 | 642 | 641 | 646 | 647 | 647 | 651 | 648 | 643 | 632 | 620 | 611 | 613 | 620 | 616 | 635 | 643 | 652 | 657 | 639 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 11       | 0    | 0  | 653 | 652 | 652 | 650 | 648 | 647 | 647 | 647 | 646 | 644 | 645 | 641 | 632 | 620 | 619 | 625 | 633 | 637 | 644 | 648 | 653 | 653 | 643 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 12       | 0    | 0  | 652 | 652 | 650 | 650 | 652 | 652 | 653 | 652 | 650 | 651 | 654 | 648 | 637 | 626 | 625 | 626 | 630 | 640 | 647 | 652 | 654 | 658 | 647 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 13       | 0    | 0  | 652 | 652 | 652 | 647 | 646 | 641 | 648 | 653 | 658 | 653 | 631 | 632 | 625 | 594 | 605 | 607 | 612 | 621 | 637 | 653 | 658 | 651 | 625 | 637 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 14       | 0    | 0  | 620 | 621 | 626 | 630 | 620 | 625 | 625 | 630 | 632 | 637 | 636 | 636 | 627 | 626 | 615 | 614 | 619 | 630 | 637 | 641 | 647 | 646 | 631 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 15       | 0    | 0  | 636 | 641 | 643 | 648 | 648 | 643 | 642 | 641 | 642 | 642 | 643 | 639 | 631 | 621 | 620 | 621 | 627 | 636 | 641 | 647 | 648 | 649 | 639 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 16       | 0    | 0  | 648 | 649 | 648 | 648 | 648 | 648 | 648 | 652 | 649 | 652 | 649 | 646 | 637 | 626 | 622 | 627 | 633 | 641 | 648 | 653 | 657 | 654 | 645 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 17       | 0    | 0  | 659 | 656 | 654 | 654 | 658 | 653 | 654 | 658 | 648 | 652 | 653 | 648 | 638 | 636 | 636 | 641 | 648 | 653 | 661 | 665 | 664 | 654 | 652 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 18       | 0    | 0  | 653 | 649 | 645 | 647 | 648 | 648 | 649 | 651 | 651 | 652 | 648 | 641 | 626 | 616 | 621 | 626 | 636 | 643 | 652 | 659 | 664 | 660 | 646 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 19       | 0    | 0  | 653 | 653 | 653 | 654 | 653 | 651 | 653 | 653 | 652 | 653 | 652 | 648 | 638 | 626 | 620 | 621 | 637 | 653 | 660 | 663 | 664 | 664 | 650 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 20       | 0    | 0  | 663 | 664 | 664 | 663 | 664 | 664 | 664 | 664 | 662 | 663 | 663 | 663 | 662 | 627 | 615 | 614 | 620 | 635 | 647 | 657 | 658 | 648 | 647 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 21       | 0    | 0  | 647 | 643 | 641 | 640 | 638 | 645 | 647 | 647 | 648 | 647 | 647 | 643 | 632 | 620 | 615 | 616 | 626 | 637 | 648 | 665 | 668 | 674 | 644 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 22       | 0    | 0  | 658 | 654 | 659 | 659 | 653 | 653 | 647 | 647 | 648 | 648 | 649 | 637 | 613 | 601 | 612 | 611 | 621 | 631 | 638 | 648 | 652 | 654 | 641 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 23       | 0    | 0  | 661 | 660 | 659 | 662 | 670 | 648 | 642 | 628 | 652 | 647 | 648 | 643 | 636 | 620 | 605 | 594 | 605 | 619 | 632 | 643 | 653 | 656 | 642 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 24       | 0    | 0  | 648 | 647 | 643 | 651 | 649 | 651 | 647 | 648 | 647 | 647 | 646 | 643 | 636 | 620 | 610 | 614 | 624 | 632 | 640 | 649 | 659 | 662 | 642 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 25       | 0    | 0  | 654 | 654 | 654 | 655 | 654 | 654 | 655 | 658 | 653 | 653 | 649 | 643 | 637 | 626 | 621 | 625 | 631 | 643 | 651 | 655 | 658 | 656 | 648 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 26       | 0    | 0  | 653 | 654 | 654 | 654 | 654 | 654 | 659 | 658 | 658 | 658 | 656 | 653 | 643 | 637 | 632 | 636 | 642 | 652 | 658 | 655 | 659 | 653 | 652 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 27       | 0    | 0  | 654 | 656 | 656 | 655 | 658 | 657 | 657 | 656 | 654 | 654 | 654 | 653 | 647 | 640 | 642 | 647 | 654 | 661 | 664 | 663 | 660 | 660 | 655 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 28       | 0    | 0  | 662 | 666 | 665 | 665 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 664 | 652 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 29       | 0    | 0  | 654 | 654 | 651 | 653 | 649 | 643 | 639 | 647 | 653 | 648 | 649 | 647 | 642 | 637 | 626 | 631 | 638 | 649 | 659 | 664 | 659 | 658 | 648 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| 30       | 0    | 0  | 648 | 647 | 643 | 636 | 647 | 648 | 643 | 649 | 641 | 639 | 642 | 641 | 637 | 621 | 614 | 612 | 606 | 617 | 632 | 648 | 649 | 643 | 638 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| MEAN ALL |      |    | 647 | 646 | 644 | 645 | 646 | 645 | 645 | 645 | 645 | 646 | 645 | 640 | 630 | 619 | 615 | 614 | 628 | 637 | 645 | 651 | 654 | 652 | 641 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| MEAN 0   |      |    | 653 | 654 | 654 | 653 | 653 | 654 | 654 | 654 | 653 | 652 | 651 | 648 | 639 | 630 | 627 | 631 | 639 | 649 | 655 | 657 | 659 | 657 | 649 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |
| MEAN 11  |      |    | 641 | 643 | 642 | 638 | 641 | 646 | 639 | 641 | 642 | 641 | 637 | 632 | 616 | 607 | 607 | 604 | 617 | 629 | 639 | 647 | 653 | 647 | 637 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |    |  |    |  |    |  |      |

DECLINATION

TABLE 11 AGINCOURT

D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES

APRIL 1966

| DAY      | HOUR<br>UT | DECLINATION |        |        |        |        |        |        |        |        |         |          |          |          |          |          |          |          |          |          |          |          |          |          | MEAN |          |
|----------|------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|----------|
|          |            | 0<br>1      | 1<br>2 | 2<br>3 | 3<br>4 | 4<br>5 | 5<br>6 | 6<br>7 | 7<br>8 | 8<br>9 | 9<br>10 | 10<br>11 | 11<br>12 | 12<br>13 | 13<br>14 | 14<br>15 | 15<br>16 | 16<br>17 | 17<br>18 | 18<br>19 | 19<br>20 | 20<br>21 | 21<br>22 | 22<br>23 |      | 23<br>24 |
| 1        | 1          | 33.0        | 33.1   | 33.1   | 33.0   | 32.9   | 31.8   | 30.9   | 31.0   | 30.1   | 30.8    | 30.2     | 29.2     | 27.8     | 31.4     | 36.5     | 35.4     | 38.3     | 30.7     | 44.2     | 43.7     | 45.7     | 42.6     | 37.5     | 37.2 | 34.6     |
| 2        | 1          | 32.9        | 31.3   | 22.4   | 34.3   | 30.5   | 35.0   | 34.4   | 29.7   | 30.7   | 31.8    | 31.6     | 31.6     | 30.0     | 28.9     | 29.8     | 32.8     | 35.0     | 37.0     | 38.0     | 38.3     | 37.2     | 35.4     | 34.7     | 33.8 | 32.8     |
| 3        |            | 30.9        | 32.9   | 31.8   | 28.5   | 32.7   | 32.3   | 31.7   | 31.9   | 31.2   | 31.1    | 30.9     | 29.7     | 28.7     | 27.7     | 28.9     | 33.1     | 35.1     | 36.4     | 37.2     | 37.5     | 37.2     | 36.9     | 35.0     | 34.1 | 32.6     |
| 4        |            | 33.1        | 33.2   | 33.0   | 32.8   | 26.9   | 30.0   | 33.0   | 31.0   | 30.6   | 28.4    | 29.0     | 27.8     | 26.6     | 26.4     | 27.8     | 31.8     | 35.7     | 39.5     | 40.3     | 40.0     | 39.3     | 37.5     | 36.5     | 35.1 | 32.7     |
| 5        |            | 33.2        | 33.1   | 33.0   | 33.0   | 32.5   | 32.8   | 34.2   | 31.8   | 31.9   | 33.0    | 30.9     | 29.9     | 29.6     | 28.8     | 28.9     | 31.9     | 36.2     | 38.5     | 39.0     | 38.6     | 37.6     | 36.0     | 34.1     | 32.8 | 33.4     |
| 6        |            | 33.0        | 31.7   | 30.9   | 33.0   | 32.8   | 32.7   | 32.8   | 34.0   | 34.0   | 31.0    | 31.9     | 29.7     | 27.1     | 25.4     | 28.0     | 30.9     | 35.0     | 38.3     | 40.6     | 41.3     | 38.5     | 36.3     | 33.5     | 33.0 | 33.1     |
| 7        |            | 28.7        | 28.9   | 29.7   | 31.8   | 37.1   | 31.0   | 33.1   | 31.9   | 31.7   | 31.7    | 30.7     | 29.5     | 27.9     | 27.2     | 28.4     | 32.3     | 37.2     | 40.1     | 40.9     | 39.4     | 38.0     | 36.1     | 34.1     | 31.8 | 32.9     |
| 8        |            | 31.8        | 30.7   | 31.0   | 29.5   | 33.9   | 30.6   | 31.0   | 31.6   | 31.9   | 33.0    | 30.6     | 28.8     | 25.7     | 24.3     | 24.3     | 27.4     | 32.4     | 36.3     | 39.2     | 39.2     | 38.2     | 37.1     | 34.3     | 32.9 | 31.9     |
| 9        |            | 32.6        | 32.8   | 32.1   | 31.9   | 31.8   | 31.7   | 31.8   | 31.2   | 31.9   | 31.8    | 32.1     | 30.7     | 27.9     | 26.9     | 27.6     | 33.1     | 37.2     | 39.0     | 39.5     | 39.3     | 37.5     | 35.3     | 33.7     | 32.8 | 33.0     |
| 10       |            | 32.1        | 31.6   | 32.2   | 31.9   | 32.2   | 31.8   | 31.9   | 31.8   | 30.8   | 30.6    | 30.5     | 29.5     | 27.6     | 26.6     | 26.9     | 30.3     | 34.3     | 37.1     | 39.3     | 38.4     | 36.3     | 34.8     | 33.2     | 32.1 | 32.2     |
| 11       | 0          | 32.8        | 32.8   | 32.9   | 32.8   | 32.7   | 32.1   | 31.9   | 31.8   | 31.6   | 31.0    | 30.6     | 30.0     | 29.3     | 28.4     | 29.8     | 32.7     | 35.9     | 37.0     | 37.7     | 37.7     | 36.3     | 35.1     | 34.0     | 32.9 | 32.9     |
| 12       |            | 32.9        | 32.8   | 32.5   | 32.9   | 32.8   | 32.4   | 31.9   | 31.8   | 31.8   | 31.0    | 31.1     | 29.4     | 28.0     | 27.7     | 28.7     | 31.2     | 34.2     | 37.2     | 37.9     | 37.9     | 36.2     | 34.8     | 33.1     | 32.9 | 32.6     |
| 13       | 0          | 32.8        | 32.9   | 32.7   | 34.0   | 31.9   | 29.7   | 30.8   | 29.7   | 28.1   | 28.9    | 29.9     | 28.4     | 29.7     | 37.1     | 36.3     | 40.4     | 40.6     | 41.6     | 43.1     | 43.2     | 38.6     | 35.2     | 35.8     | 32.1 | 34.3     |
| 14       |            | 31.0        | 29.7   | 29.9   | 30.8   | 31.6   | 30.8   | 30.0   | 29.8   | 30.0   | 27.9    | 26.4     | 24.6     | 24.2     | 25.7     | 27.7     | 32.2     | 37.0     | 38.2     | 39.3     | 38.4     | 36.0     | 34.1     | 32.8     | 32.1 | 31.3     |
| 15       |            | 29.6        | 32.7   | 32.9   | 33.0   | 32.8   | 31.7   | 30.9   | 32.8   | 30.0   | 30.8    | 29.9     | 27.8     | 26.5     | 26.8     | 29.4     | 32.5     | 35.2     | 37.2     | 37.1     | 35.2     | 34.0     | 33.0     | 32.8     | 32.7 | 32.0     |
| 16       |            | 32.9        | 33.1   | 33.2   | 33.1   | 32.8   | 32.6   | 31.8   | 31.7   | 30.9   | 30.8    | 29.7     | 28.6     | 28.0     | 26.5     | 27.8     | 31.9     | 35.2     | 36.9     | 37.1     | 36.3     | 35.0     | 33.7     | 32.9     | 33.0 | 32.3     |
| 17       |            | 33.3        | 33.2   | 32.9   | 32.8   | 31.8   | 31.7   | 31.7   | 30.9   | 29.6   | 27.7    | 27.4     | 27.3     | 26.4     | 27.5     | 30.9     | 33.9     | 37.3     | 38.9     | 38.9     | 37.0     | 34.7     | 32.0     | 31.0     | 31.8 | 32.1     |
| 18       |            | 32.6        | 32.8   | 31.7   | 32.9   | 32.8   | 32.1   | 32.0   | 31.7   | 31.5   | 31.0    | 29.6     | 28.3     | 26.5     | 27.3     | 29.5     | 34.0     | 37.4     | 39.5     | 40.0     | 38.8     | 36.1     | 33.9     | 32.7     | 31.8 | 32.8     |
| 19       | 0          | 32.2        | 32.7   | 32.8   | 32.8   | 32.8   | 32.8   | 32.3   | 32.1   | 31.5   | 30.7    | 29.6     | 28.5     | 27.4     | 26.5     | 27.5     | 30.7     | 35.8     | 39.2     | 40.6     | 40.2     | 38.1     | 35.1     | 33.0     | 32.6 | 32.8     |
| 20       |            | 32.8        | 32.9   | 32.8   | 32.8   | 32.7   | 32.7   | 31.1   | 30.7   | 29.4   | 28.6    | 27.2     | 25.2     | 25.4     | 27.4     | 31.4     | 38.2     | 44.1     | 45.3     | 43.6     | 41.4     | 38.9     | 36.0     | 32.9     | 32.1 | 33.5     |
| 21       |            | 31.6        | 27.7   | 26.9   | 30.7   | 31.5   | 32.8   | 32.6   | 31.7   | 32.1   | 31.0    | 28.9     | 27.7     | 27.3     | 26.2     | 27.8     | 31.5     | 36.5     | 40.1     | 41.4     | 41.2     | 39.2     | 37.4     | 36.6     | 34.9 | 32.7     |
| 22       | 0          | 35.2        | 34.9   | 33.2   | 33.0   | 32.0   | 28.3   | 29.6   | 29.5   | 30.5   | 27.6    | 28.2     | 26.4     | 27.6     | 30.4     | 34.4     | 38.1     | 41.3     | 42.4     | 41.4     | 40.4     | 38.2     | 35.5     | 33.6     | 32.9 | 33.5     |
| 23       |            | 33.3        | 33.0   | 32.5   | 33.9   | 42.2   | 31.6   | 29.6   | 40.0   | 31.3   | 28.8    | 28.5     | 27.4     | 26.4     | 25.4     | 27.4     | 30.9     | 37.9     | 38.9     | 38.9     | 38.5     | 37.1     | 35.1     | 33.9     | 32.9 | 33.1     |
| 24       |            | 32.7        | 31.5   | 31.7   | 31.4   | 32.1   | 32.9   | 32.0   | 31.6   | 31.0   | 30.7    | 29.8     | 29.7     | 28.6     | 27.8     | 28.8     | 32.8     | 36.9     | 39.2     | 40.2     | 40.1     | 38.1     | 36.0     | 34.3     | 33.8 | 33.1     |
| 25       | 0          | 32.9        | 32.9   | 33.1   | 32.9   | 32.8   | 32.6   | 31.8   | 31.7   | 31.6   | 30.8    | 29.8     | 28.3     | 27.3     | 27.5     | 28.8     | 30.8     | 33.8     | 36.1     | 37.9     | 37.4     | 36.2     | 34.9     | 34.4     | 33.9 | 32.5     |
| 26       | 0          | 33.6        | 33.3   | 32.8   | 32.5   | 31.7   | 32.0   | 32.5   | 31.5   | 30.8   | 30.5    | 29.6     | 28.6     | 28.0     | 28.5     | 28.8     | 31.0     | 33.8     | 36.0     | 36.2     | 36.2     | 35.1     | 33.6     | 32.8     | 33.5 | 32.2     |
| 27       | 0          | 33.9        | 33.3   | 32.9   | 32.8   | 32.6   | 32.0   | 31.7   | 31.6   | 31.1   | 30.8    | 30.5     | 30.5     | 30.4     | 30.5     | 30.6     | 32.8     | 35.9     | 37.4     | 38.1     | 38.0     | 37.1     | 35.9     | 34.6     | 33.8 | 33.3     |
| 28       |            | 32.9        | 32.9   | 32.8   | 32.3   | 30.7   | 30.7   | 28.7   | 28.3   | 29.0   | 30.7    | 30.7     | 27.5     | 27.6     | 28.6     | 29.7     | 30.8     | 33.6     | 36.3     | 38.0     | 37.3     | 36.0     | 34.9     | 33.9     | 33.1 | 32.0     |
| 29       |            | 32.4        | 32.4   | 30.1   | 30.3   | 30.3   | 28.7   | 28.5   | 31.8   | 31.4   | 30.7    | 29.6     | 28.8     | 29.1     | 29.6     | 31.6     | 34.9     | 36.2     | 37.0     | 36.8     | 36.8     | 37.0     | 35.8     | 35.0     | 35.1 | 32.5     |
| 30       | 0          | 34.7        | 32.9   | 31.3   | 29.6   | 29.2   | 31.7   | 31.8   | 31.2   | 27.6   | 29.0    | 27.6     | 25.5     | 27.4     | 32.1     | 33.6     | 37.3     | 39.8     | 43.4     | 41.4     | 39.1     | 36.7     | 34.9     | 33.6     | 32.7 | 33.1     |
| MEAN ALL |            | 32.6        | 32.3   | 31.7   | 32.2   | 32.4   | 31.7   | 31.6   | 31.6   | 30.9   | 30.4    | 29.8     | 28.5     | 27.7     | 28.0     | 29.6     | 32.9     | 36.5     | 38.4     | 39.5     | 38.9     | 37.3     | 35.5     | 34.0     | 33.2 | 32.8     |
| MEAN 0   |            | 33.1        | 33.0   | 32.9   | 32.8   | 32.5   | 32.3   | 32.1   | 31.8   | 31.3   | 30.7    | 30.0     | 29.2     | 28.5     | 28.3     | 29.1     | 31.6     | 35.0     | 37.1     | 38.1     | 37.9     | 36.6     | 34.9     | 33.8     | 33.3 | 32.7     |
| MEAN 0   |            | 33.7        | 33.0   | 30.5   | 32.8   | 31.3   | 31.3   | 31.5   | 30.2   | 29.4   | 29.6    | 29.5     | 28.2     | 28.5     | 32.0     | 34.1     | 36.8     | 39.0     | 39.0     | 41.6     | 40.9     | 39.3     | 36.7     | 34.9     | 33.7 | 33.7     |



## VERTICAL INTENSITY

| TABLE 12 |      | AGINCOURT |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     | Z = 56000 + TABULAR VALUES IN GAMMAS |      | APRIL 1966 |  |  |  |  |
|----------|------|-----------|----|----|----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|--------------------------------------|------|------------|--|--|--|--|
| DAY      | HOOR | 0         | 1  | 2  | 3  | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21  | 22  | 23                                   | MEAN |            |  |  |  |  |
|          | UT   | 10        | 10 | 10 | 10 | 10  | 10  | 10  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10  | 10  | 10                                   |      |            |  |  |  |  |
| 1        | U    | 33        | 32 | 32 | 31 | 31  | 32  | 31  | 32 | 31 | 31 | 31 | 28 | 28 | 27 | 27 | 15 | 15 | 15 | 22 | 43 | 73 | 134 | 116 | 125                                  | 42   |            |  |  |  |  |
| 2        | U    | 82        | 64 | 59 | 32 | 43  | 14  | -14 | 21 | 37 | 38 | 38 | 39 | 43 | 43 | 38 | 31 | 28 | 27 | 29 | 35 | 39 | 41  | 42  | 39                                   | 37   |            |  |  |  |  |
| 3        |      | 38        | 37 | 38 | 28 | 31  | 32  | 33  | 33 | 33 | 33 | 34 | 33 | 34 | 36 | 33 | 29 | 29 | 28 | 32 | 32 | 37 | 39  | 43  | 46                                   | 34   |            |  |  |  |  |
| 4        |      | 43        | 42 | 38 | 37 | 29  | 27  | 33  | 23 | 28 | 27 | 37 | 37 | 36 | 32 | 28 | 25 | 23 | 22 | 21 | 25 | 32 | 38  | 39  | 41                                   | 32   |            |  |  |  |  |
| 5        |      | 41        | 38 | 35 | 32 | 32  | 32  | 21  | 21 | 26 | 29 | 30 | 31 | 31 | 32 | 31 | 25 | 20 | 24 | 27 | 32 | 38 | 41  | 38  | 37                                   | 31   |            |  |  |  |  |
| 6        |      | 35        | 35 | 37 | 36 | 35  | 31  | 30  | 31 | 26 | 28 | 31 | 31 | 31 | 29 | 26 | 19 | 18 | 21 | 26 | 32 | 37 | 38  | 39  | 41                                   | 31   |            |  |  |  |  |
| 7        |      | 34        | 43 | 32 | 41 | 20  | 37  | 38  | 41 | 37 | 32 | 38 | 39 | 39 | 36 | 32 | 30 | 28 | 32 | 31 | 31 | 42 | 41  | 40  | 40                                   | 36   |            |  |  |  |  |
| 8        |      | 38        | 38 | 14 | 21 | -6  | 4   | 31  | 33 | 33 | 31 | 32 | 36 | 36 | 33 | 30 | 24 | 20 | 24 | 27 | 32 | 37 | 40  | 38  | 37                                   | 29   |            |  |  |  |  |
| 9        |      | 36        | 33 | 32 | 32 | 32  | 33  | 32  | 32 | 33 | 32 | 32 | 33 | 34 | 31 | 27 | 26 | 30 | 32 | 33 | 33 | 36 | 38  | 38  | 36                                   | 33   |            |  |  |  |  |
| 10       |      | 31        | 31 | 31 | 31 | 31  | 30  | 26  | 29 | 29 | 28 | 24 | 30 | 31 | 31 | 29 | 23 | 19 | 20 | 26 | 31 | 31 | 35  | 35  | 35                                   | 29   |            |  |  |  |  |
| 11       | U    | 31        | 30 | 30 | 30 | 30  | 30  | 30  | 30 | 29 | 29 | 30 | 31 | 31 | 30 | 26 | 23 | 19 | 19 | 22 | 25 | 29 | 31  | 31  | 30                                   | 28   |            |  |  |  |  |
| 12       |      | 30        | 30 | 29 | 30 | 29  | 29  | 29  | 26 | 23 | 21 | 23 | 23 | 24 | 23 | 20 | 18 | 14 | 18 | 21 | 23 | 26 | 27  | 30  | 26                                   | 25   |            |  |  |  |  |
| 13       | U    | 26        | 26 | 26 | 23 | 19  | 25  | 27  | 29 | 26 | 23 | 17 | 18 | 18 | 9  | 12 | 13 | 17 | 27 | 41 | 57 | 71 | 77  | 85  | 77                                   | 33   |            |  |  |  |  |
| 14       |      | 68        | 58 | 47 | 41 | 40  | 39  | 36  | 35 | 25 | 15 | 15 | 20 | 19 | 15 | 12 | 6  | 5  | 12 | 21 | 29 | 32 | 35  | 35  | 36                                   | 29   |            |  |  |  |  |
| 15       |      | 37        | 35 | 34 | 30 | 30  | 27  | 21  | 23 | 23 | 24 | 29 | 31 | 31 | 30 | 24 | 24 | 28 | 30 | 32 | 34 | 33 | 32  | 31  | 30                                   | 29   |            |  |  |  |  |
| 16       |      | 29        | 29 | 29 | 28 | 29  | 29  | 29  | 29 | 28 | 28 | 29 | 29 | 26 | 24 | 19 | 14 | 17 | 24 | 31 | 34 | 32 | 31  | 30  | 29                                   | 27   |            |  |  |  |  |
| 17       |      | 28        | 26 | 26 | 26 | 24  | 26  | 24  | 24 | 20 | 18 | 24 | 25 | 28 | 28 | 24 | 23 | 28 | 31 | 35 | 36 | 36 | 35  | 31  | 29                                   | 27   |            |  |  |  |  |
| 18       |      | 28        | 28 | 28 | 28 | 27  | 27  | 28  | 28 | 27 | 27 | 28 | 28 | 28 | 27 | 24 | 27 | 28 | 34 | 34 | 35 | 35 | 34  | 33  | 29                                   | 29   |            |  |  |  |  |
| 19       | U    | 28        | 27 | 27 | 25 | 24  | 24  | 24  | 23 | 24 | 27 | 28 | 28 | 26 | 23 | 19 | 16 | 13 | 12 | 18 | 27 | 29 | 29  | 29  | 28                                   | 24   |            |  |  |  |  |
| 20       |      | 25        | 25 | 24 | 23 | 23  | 24  | 23  | 21 | 10 | 13 | 17 | 21 | 17 | 10 | 11 | 11 | 15 | 23 | 24 | 25 | 28 | 29  | 31  | 29                                   | 21   |            |  |  |  |  |
| 21       |      | 28        | 27 | 23 | 24 | 28  | 29  | 28  | 27 | 24 | 23 | 27 | 28 | 23 | 20 | 16 | 13 | 14 | 17 | 23 | 27 | 29 | 29  | 32  | 29                                   | 24   |            |  |  |  |  |
| 22       | U    | 36        | 34 | 28 | 25 | 24  | 17  | 15  | 17 | 19 | 22 | 28 | 28 | 26 | 22 | 17 | 8  | 10 | 14 | 18 | 24 | 32 | 34  | 33  | 28                                   | 23   |            |  |  |  |  |
| 23       |      | 28        | 27 | 27 | 9  | -47 | -11 | -6  | -1 | 15 | 23 | 27 | 25 | 22 | 20 | 17 | 17 | 21 | 27 | 29 | 33 | 36 | 36  | 33  | 32                                   | 18   |            |  |  |  |  |
| 24       |      | 31        | 31 | 32 | 27 | 23  | 22  | 20  | 23 | 25 | 27 | 28 | 28 | 27 | 26 | 21 | 17 | 18 | 22 | 22 | 28 | 31 | 31  | 33  | 31                                   | 26   |            |  |  |  |  |
| 25       | U    | 28        | 27 | 26 | 27 | 26  | 26  | 26  | 27 | 25 | 25 | 27 | 27 | 27 | 23 | 20 | 17 | 12 | 16 | 19 | 22 | 28 | 30  | 29  | 28                                   | 24   |            |  |  |  |  |
| 26       | U    | 27        | 27 | 27 | 27 | 27  | 27  | 24  | 24 | 24 | 25 | 26 | 27 | 22 | 22 | 24 | 23 | 20 | 17 | 18 | 22 | 23 | 28  | 28  | 27                                   | 24   |            |  |  |  |  |
| 27       | U    | 25        | 24 | 22 | 22 | 22  | 23  | 23  | 23 | 23 | 25 | 26 | 27 | 27 | 26 | 21 | 20 | 19 | 17 | 17 | 19 | 22 | 28  | 27  | 28                                   | 23   |            |  |  |  |  |
| 28       |      | 26        | 26 | 26 | 26 | 27  | 26  | 22  | 25 | 27 | 27 | 23 | 21 | 18 | 15 | 16 | 19 | 21 | 26 | 31 | 32 | 33 | 32  | 31  | 29                                   | 25   |            |  |  |  |  |
| 29       |      | 28        | 27 | 26 | 24 | 22  | 21  | 20  | 16 | 15 | 21 | 24 | 22 | 21 | 18 | 14 | 11 | 9  | 5  | 11 | 22 | 26 | 28  | 33  | 37                                   | 21   |            |  |  |  |  |
| 30       | U    | 37        | 37 | 40 | 34 | 33  | 33  | 28  | 16 | 14 | 21 | 22 | 22 | 19 | 16 | 16 | 14 | 16 | 17 | 18 | 27 | 31 | 31  | 35  | 33                                   | 26   |            |  |  |  |  |
| MEAN ALL |      | 35        | 33 | 31 | 28 | 25  | 25  | 24  | 25 | 25 | 26 | 28 | 28 | 27 | 25 | 22 | 19 | 19 | 22 | 25 | 30 | 35 | 38  | 38  | 37                                   | 28   |            |  |  |  |  |
| MEAN U   |      | 28        | 27 | 26 | 26 | 26  | 26  | 26  | 26 | 25 | 26 | 28 | 28 | 27 | 25 | 22 | 20 | 17 | 16 | 19 | 23 | 26 | 29  | 29  | 28                                   | 25   |            |  |  |  |  |
| MEAN U   |      | 43        | 39 | 37 | 30 | 30  | 24  | 17  | 23 | 26 | 27 | 27 | 27 | 27 | 23 | 22 | 16 | 17 | 20 | 25 | 37 | 49 | 63  | 62  | 60                                   | 32   |            |  |  |  |  |

HORIZONTAL INTENSITY

TABLE 13 AGINCOURT

H = 15500 + TABULAR VALUES IN GAMMAS

MAY 1966

| DAY      | HOURLY | 0              | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 13             | 14             | 15             | 16             | 17             | 18             | 19             | 20             | 21             | 22             | 23             | MEAN |
|----------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
|          | UT     | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> | T <sub>0</sub> |      |
|          |        | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 13             | 14             | 15             | 16             | 17             | 18             | 19             | 20             | 21             | 22             | 23             | 24             |      |
| 1        |        | 655            | 653            | 647            | 637            | 633            | 648            | 642            | 647            | 647            | 643            | 643            | 643            | 642            | 634            | 620            | 616            | 624            | 641            | 655            | 661            | 653            | 642            | 654            | 653            | 643  |
| 2        | U      | 656            | 648            | 648            | 646            | 640            | 642            | 641            | 630            | 634            | 639            | 642            | 637            | 626            | 615            | 612            | 605            | 604            | 621            | 641            | 658            | 660            | 666            | 654            | 648            | 638  |
| 3        |        | 647            | 648            | 649            | 653            | 649            | 649            | 643            | 648            | 649            | 650            | 644            | 644            | 639            | 632            | 624            | 626            | 628            | 636            | 638            | 648            | 655            | 667            | 663            | 663            | 646  |
| 4        | U      | 648            | 626            | 623            | 627            | 621            | 632            | 628            | 638            | 638            | 642            | 633            | 640            | 642            | 627            | 610            | 600            | 605            | 616            | 631            | 642            | 653            | 653            | 652            | 656            | 633  |
| 5        |        | 648            | 642            | 641            | 646            | 649            | 649            | 652            | 648            | 650            | 653            | 653            | 648            | 638            | 632            | 622            | 615            | 615            | 625            | 633            | 647            | 656            | 660            | 655            | 649            | 643  |
| 6        |        | 657            | 649            | 649            | 632            | 642            | 626            | 633            | 646            | 645            | 648            | 652            | 653            | 648            | 643            | 633            | 621            | 617            | 627            | 638            | 648            | 655            | 659            | 658            | 658            | 643  |
| 7        |        | 654            | 658            | 653            | 652            | 652            | 653            | 653            | 653            | 653            | 653            | 651            | 652            | 650            | 643            | 633            | 621            | 620            | 628            | 646            | 660            | 664            | 658            | 659            | 654            | 649  |
| 8        |        | 653            | 654            | 654            | 653            | 652            | 653            | 653            | 654            | 654            | 654            | 658            | 654            | 649            | 648            | 648            | 630            | 631            | 647            | 658            | 660            | 660            | 659            | 653            | 648            | 652  |
| 9        |        | 649            | 648            | 649            | 648            | 643            | 642            | 651            | 665            | 660            | 660            | 660            | 655            | 648            | 639            | 634            | 632            | 642            | 652            | 659            | 664            | 660            | 658            | 655            | 654            | 651  |
| 10       | U      | 654            | 653            | 654            | 654            | 654            | 654            | 655            | 654            | 654            | 654            | 658            | 663            | 659            | 649            | 641            | 645            | 659            | 670            | 670            | 675            | 669            | 667            | 662            | 659            | 658  |
| 11       | U      | 654            | 658            | 659            | 659            | 660            | 660            | 660            | 663            | 669            | 675            | 675            | 672            | 653            | 643            | 641            | 639            | 647            | 652            | 654            | 673            | 663            | 673            | 667            | 653            | 659  |
| 12       |        | 658            | 658            | 655            | 655            | 660            | 658            | 661            | 659            | 660            | 659            | 660            | 663            | 655            | 643            | 636            | 643            | 653            | 658            | 661            | 674            | 660            | 661            | 665            | 654            | 657  |
| 13       |        | 664            | 655            | 654            | 659            | 657            | 661            | 659            | 654            | 652            | 654            | 653            | 654            | 651            | 647            | 643            | 654            | 668            | 679            | 675            | 670            | 666            | 660            | 658            | 660            | 659  |
| 14       | U      | 660            | 663            | 660            | 660            | 660            | 660            | 661            | 659            | 660            | 660            | 661            | 659            | 655            | 649            | 647            | 647            | 655            | 660            | 669            | 675            | 674            | 665            | 659            | 658            | 660  |
| 15       | U      | 660            | 660            | 659            | 659            | 660            | 663            | 663            | 664            | 665            | 665            | 664            | 663            | 658            | 648            | 643            | 648            | 662            | 677            | 686            | 685            | 680            | 676            | 669            | 663            | 664  |
| 16       |        | 660            | 660            | 660            | 659            | 659            | 660            | 663            | 663            | 664            | 667            | 668            | 664            | 653            | 633            | 622            | 627            | 648            | 664            | 677            | 691            | 685            | 665            | 658            | 664            | 660  |
| 17       |        | 663            | 659            | 664            | 653            | 649            | 653            | 654            | 658            | 654            | 654            | 653            | 659            | 654            | 647            | 638            | 636            | 638            | 654            | 666            | 672            | 674            | 666            | 661            | 663            | 656  |
| 18       |        | 653            | 651            | 653            | 647            | 648            | 648            | 648            | 651            | 654            | 654            | 657            | 653            | 642            | 633            | 630            | 633            | 645            | 659            | 670            | 677            | 681            | 672            | 669            | 668            | 654  |
| 19       |        | 661            | 657            | 658            | 658            | 658            | 652            | 647            | 647            | 648            | 653            | 657            | 653            | 646            | 634            | 620            | 619            | 630            | 646            | 665            | 680            | 689            | 679            | 664            | 657            | 653  |
| 20       |        | 658            | 657            | 658            | 657            | 657            | 658            | 664            | 661            | 660            | 659            | 653            | 650            | 648            | 642            | 630            | 624            | 625            | 638            | 659            | 681            | 680            | 653            | 649            | 661            | 653  |
| 21       |        | 664            | 664            | 662            | 657            | 656            | 657            | 657            | 662            | 661            | 659            | 659            | 657            | 651            | 642            | 642            | 646            | 653            | 666            | 673            | 674            | 675            | 671            | 664            | 666            | 660  |
| 22       |        | 664            | 667            | 666            | 665            | 664            | 663            | 662            | 659            | 662            | 662            | 664            | 663            | 653            | 632            | 617            | 615            | 637            | 659            | 666            | 667            | 667            | 663            | 662            | 655            | 656  |
| 23       | U      | 662            | 662            | 662            | 663            | 662            | 663            | 664            | 663            | 663            | 664            | 664            | 663            | 657            | 644            | 635            | 632            | 642            | 653            | 666            | 674            | 680            | 675            | 668            | 663            | 660  |
| 24       | U      | 663            | 663            | 663            | 664            | 664            | 666            | 666            | 664            | 664            | 667            | 668            | 665            | 656            | 641            | 626            | 626            | 638            | 658            | 668            | 673            | 662            | 657            | 659            | 662            | 658  |
| 25       |        | 664            | 667            | 663            | 662            | 664            | 665            | 664            | 663            | 662            | 663            | 663            | 667            | 659            | 652            | 643            | 637            | 642            | 652            | 660            | 662            | 661            | 659            | 665            | 681            | 660  |
| 26       | U      | 679            | 680            | 679            | 688            | 691            | 680            | 688            | 669            | 699            | 647            | 550            | 541            | 546            | 586            | 614            | 615            | 584            | 601            | 732            | 871            | 864            | 840            | 838            | 686            | 677  |
| 27       |        | 620            | 619            | 607            | 610            | 610            | 614            | 615            | 614            | 616            | 619            | 619            | 615            | 613            | 608            | 600            | 603            | 610            | 625            | 636            | 641            | 642            | 643            | 641            | 640            | 620  |
| 28       |        | 641            | 641            | 640            | 637            | 637            | 635            | 636            | 634            | 633            | 635            | 637            | 637            | 636            | 621            | 609            | 603            | 608            | 631            | 642            | 650            | 647            | 644            | 647            | 648            | 635  |
| 29       |        | 647            | 651            | 648            | 642            | 641            | 638            | 635            | 637            | 637            | 636            | 639            | 642            | 630            | 621            | 614            | 609            | 619            | 631            | 641            | 647            | 642            | 642            | 641            | 649            | 637  |
| 30       |        | 647            | 649            | 647            | 647            | 646            | 646            | 645            | 643            | 640            | 631            | 641            | 643            | 636            | 630            | 625            | 624            | 628            | 641            | 658            | 679            | 691            | 677            | 647            | 659            | 647  |
| 31       | U      | 651            | 637            | 641            | 650            | 630            | 631            | 658            | 631            | 608            | 624            | 609            | 633            | 619            | 593            | 583            | 573            | 587            | 631            | 682            | 743            | 745            | 754            | 755            | 684            | 648  |
| MEAN ALL |        | 655            | 653            | 653            | 652            | 650            | 651            | 652            | 652            | 652            | 652            | 649            | 649            | 642            | 634            | 627            | 625            | 631            | 645            | 661            | 675            | 675            | 670            | 667            | 659            | 651  |
| MEAN U   |        | 660            | 660            | 660            | 660            | 660            | 661            | 662            | 661            | 661            | 662            | 663            | 663            | 657            | 646            | 638            | 639            | 651            | 664            | 672            | 676            | 673            | 668            | 663            | 661            | 660  |
| MEAN U   |        | 659            | 650            | 650            | 654            | 648            | 649            | 651            | 646            | 650            | 645            | 622            | 625            | 617            | 613            | 612            | 606            | 605            | 624            | 668            | 718            | 717            | 717            | 713            | 665            | 651  |

AGINCOURT MAGNETIC OBSERVATORY 1966

## DECLINATION

TABLE 14 AGINCOURT

D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES

MAY 1966

| DAY      | HOUR<br>UT | DECLINATION |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | MEAN |    |
|----------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|          |            | 0           | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   |      | 24 |
|          |            | T0          | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   |      | T0 |
| 1        |            | 31.7        | 29.6 | 29.9 | 27.8 | 29.4 | 31.0 | 30.6 | 31.6 | 31.7 | 32.7 | 28.3 | 27.5 | 26.4 | 26.4 | 29.4 | 34.0 | 36.9 | 39.3 | 38.1 | 38.1 | 38.5 | 37.7 | 35.6 | 34.8 | 32.4 |    |
| 2        | 0          | 33.9        | 30.9 | 32.5 | 32.6 | 32.7 | 34.0 | 33.1 | 27.5 | 28.5 | 25.6 | 27.8 | 25.4 | 27.5 | 26.9 | 28.8 | 32.8 | 36.7 | 38.9 | 38.3 | 40.1 | 38.3 | 34.2 | 34.3 | 34.5 | 32.3 |    |
| 3        |            | 34.0        | 34.1 | 33.6 | 32.3 | 33.0 | 33.6 | 34.3 | 34.9 | 33.6 | 32.7 | 30.8 | 29.5 | 28.3 | 27.4 | 28.8 | 32.0 | 35.0 | 38.2 | 40.3 | 41.3 | 40.2 | 37.3 | 36.0 | 33.9 | 34.0 |    |
| 4        | 0          | 33.2        | 30.9 | 30.6 | 28.6 | 32.0 | 29.6 | 29.1 | 33.6 | 30.6 | 30.1 | 30.6 | 33.9 | 29.6 | 28.3 | 28.7 | 33.0 | 36.8 | 38.4 | 39.2 | 40.3 | 39.2 | 37.9 | 34.4 | 30.8 | 32.9 |    |
| 5        |            | 32.9        | 32.6 | 31.7 | 33.0 | 33.1 | 32.8 | 32.5 | 31.8 | 32.6 | 31.7 | 30.4 | 27.7 | 27.5 | 28.3 | 28.6 | 31.5 | 35.7 | 40.5 | 43.2 | 42.6 | 40.5 | 37.9 | 34.9 | 33.1 | 33.6 |    |
| 6        |            | 32.0        | 31.1 | 29.1 | 28.9 | 32.8 | 28.9 | 36.3 | 32.7 | 29.8 | 31.5 | 30.7 | 29.3 | 27.6 | 27.5 | 27.7 | 30.9 | 35.3 | 39.2 | 41.6 | 42.1 | 40.1 | 37.0 | 35.0 | 32.9 | 32.9 |    |
| 7        |            | 31.7        | 31.6 | 32.8 | 32.8 | 32.8 | 32.7 | 32.6 | 32.0 | 31.8 | 32.6 | 31.1 | 28.6 | 27.8 | 26.5 | 27.5 | 29.7 | 34.1 | 37.9 | 38.7 | 39.1 | 38.1 | 37.4 | 35.8 | 34.0 | 32.9 |    |
| 8        |            | 33.5        | 33.0 | 32.8 | 31.7 | 32.6 | 32.6 | 32.3 | 31.7 | 31.6 | 31.1 | 29.8 | 26.8 | 25.4 | 25.2 | 26.4 | 28.3 | 34.4 | 36.3 | 37.5 | 38.8 | 38.2 | 37.3 | 36.2 | 34.1 | 32.4 |    |
| 9        |            | 33.1        | 33.0 | 31.5 | 30.4 | 29.4 | 33.4 | 33.9 | 28.9 | 30.1 | 30.6 | 29.6 | 28.8 | 28.8 | 29.6 | 31.1 | 32.7 | 34.7 | 37.0 | 37.8 | 37.9 | 37.3 | 36.1 | 34.8 | 33.9 | 32.7 |    |
| 10       | 0          | 33.2        | 32.8 | 33.1 | 33.1 | 33.0 | 32.9 | 32.8 | 32.5 | 32.0 | 31.6 | 30.8 | 28.8 | 28.7 | 29.4 | 31.5 | 35.0 | 37.9 | 38.8 | 38.5 | 38.0 | 37.0 | 35.7 | 34.8 | 34.1 | 33.6 |    |
| 11       | 0          | 33.9        | 33.2 | 33.0 | 33.1 | 33.0 | 32.7 | 31.8 | 31.5 | 30.9 | 29.8 | 27.9 | 26.7 | 25.1 | 28.6 | 31.7 | 32.0 | 35.2 | 37.9 | 38.1 | 37.4 | 37.9 | 36.8 | 36.0 | 33.6 | 32.8 |    |
| 12       |            | 32.8        | 33.0 | 32.5 | 31.6 | 30.7 | 30.6 | 30.7 | 31.1 | 30.9 | 30.9 | 28.8 | 27.0 | 26.4 | 27.6 | 31.1 | 36.1 | 37.3 | 38.1 | 38.1 | 36.4 | 35.0 | 33.6 | 32.7 | 30.0 | 32.2 |    |
| 13       |            | 27.6        | 30.9 | 32.0 | 31.7 | 29.0 | 29.8 | 30.7 | 30.0 | 32.7 | 33.9 | 26.4 | 27.3 | 27.5 | 28.0 | 30.5 | 34.8 | 36.0 | 35.9 | 35.1 | 35.8 | 34.8 | 34.0 | 33.6 | 33.1 | 31.7 |    |
| 14       | 0          | 33.0        | 32.8 | 32.8 | 32.9 | 32.8 | 32.8 | 32.2 | 31.7 | 31.6 | 30.7 | 29.1 | 27.8 | 27.5 | 28.7 | 31.0 | 33.9 | 37.3 | 39.2 | 39.2 | 37.3 | 36.0 | 34.4 | 33.3 | 33.2 | 33.0 |    |
| 15       | 0          | 33.8        | 32.9 | 32.9 | 33.0 | 33.0 | 32.7 | 32.6 | 32.2 | 32.0 | 31.3 | 29.7 | 28.6 | 27.8 | 29.1 | 31.8 | 36.4 | 38.3 | 39.3 | 39.9 | 39.2 | 37.5 | 34.8 | 33.8 | 33.4 | 33.6 |    |
| 16       |            | 33.1        | 33.1 | 33.0 | 32.8 | 32.7 | 32.2 | 31.7 | 31.5 | 30.9 | 30.6 | 28.6 | 27.1 | 26.4 | 26.5 | 29.8 | 36.2 | 40.0 | 40.2 | 38.5 | 37.0 | 35.8 | 35.1 | 34.1 | 33.6 | 32.9 |    |
| 17       |            | 34.2        | 34.7 | 29.6 | 30.7 | 31.7 | 33.3 | 32.6 | 31.6 | 31.0 | 31.2 | 26.8 | 24.3 | 24.1 | 25.2 | 28.5 | 34.1 | 36.8 | 39.1 | 37.3 | 36.0 | 33.9 | 32.0 | 29.9 | 30.6 | 31.6 |    |
| 18       |            | 27.7        | 30.0 | 30.6 | 29.6 | 32.0 | 32.4 | 31.7 | 32.6 | 33.1 | 32.7 | 29.4 | 26.7 | 26.1 | 27.6 | 31.8 | 36.0 | 40.1 | 41.6 | 41.5 | 39.1 | 35.3 | 33.8 | 32.8 | 32.7 | 32.8 |    |
| 19       |            | 32.7        | 33.6 | 33.6 | 33.3 | 32.8 | 32.7 | 32.0 | 31.7 | 31.5 | 30.6 | 29.2 | 26.4 | 24.4 | 25.5 | 28.8 | 36.0 | 39.9 | 42.2 | 41.5 | 39.4 | 36.0 | 34.7 | 33.4 | 33.3 | 33.1 |    |
| 20       |            | 34.1        | 34.4 | 33.6 | 33.9 | 33.8 | 33.0 | 32.0 | 31.7 | 33.5 | 32.1 | 28.3 | 25.4 | 23.4 | 22.6 | 24.4 | 30.1 | 33.6 | 38.0 | 39.2 | 40.1 | 39.2 | 38.1 | 33.6 | 31.6 | 32.5 |    |
| 21       |            | 31.7        | 31.8 | 31.0 | 31.7 | 31.8 | 32.8 | 32.8 | 32.7 | 32.3 | 31.5 | 29.6 | 27.9 | 27.4 | 27.5 | 30.5 | 35.0 | 38.9 | 41.2 | 41.3 | 40.1 | 37.1 | 34.6 | 33.0 | 32.6 | 33.2 |    |
| 22       |            | 32.2        | 32.8 | 32.8 | 32.9 | 32.9 | 32.8 | 32.0 | 32.8 | 32.4 | 31.0 | 29.4 | 26.4 | 24.4 | 25.6 | 29.8 | 36.2 | 40.3 | 42.3 | 42.2 | 39.3 | 36.2 | 34.0 | 32.0 | 31.7 | 33.1 |    |
| 23       | 0          | 31.8        | 32.4 | 32.8 | 33.0 | 32.9 | 32.9 | 32.8 | 32.7 | 33.0 | 32.6 | 31.4 | 27.9 | 25.3 | 26.5 | 30.7 | 35.5 | 39.2 | 42.1 | 42.2 | 40.2 | 37.3 | 34.0 | 32.1 | 31.6 | 33.5 |    |
| 24       | 0          | 32.0        | 32.6 | 32.8 | 32.8 | 32.9 | 32.9 | 31.7 | 32.0 | 32.2 | 30.9 | 28.6 | 26.7 | 25.5 | 26.1 | 28.6 | 33.6 | 38.1 | 39.3 | 39.5 | 39.2 | 37.5 | 35.8 | 33.6 | 32.8 | 32.8 |    |
| 25       |            | 32.7        | 32.2 | 32.2 | 32.5 | 32.8 | 32.9 | 32.8 | 32.6 | 31.4 | 30.7 | 28.3 | 25.6 | 24.3 | 24.2 | 25.4 | 29.8 | 33.6 | 37.3 | 37.4 | 36.9 | 35.1 | 33.8 | 31.6 | 32.0 | 31.6 |    |
| 26       | 0          | 33.1        | 33.1 | 33.0 | 33.3 | 32.1 | 31.8 | 31.5 | 30.6 | 32.2 | 32.8 | 45.3 | 30.0 | 30.3 | 26.7 | 28.1 | 29.9 | 38.2 | 47.0 | 42.0 | 27.0 | 30.6 | 32.2 | 28.9 | 27.6 | 32.8 |    |
| 27       |            | 37.9        | 36.7 | 36.8 | 36.9 | 36.0 | 35.0 | 34.2 | 33.6 | 33.5 | 32.3 | 30.7 | 29.4 | 28.7 | 30.0 | 33.2 | 36.9 | 40.0 | 39.1 | 38.2 | 38.1 | 36.3 | 34.9 | 35.0 | 35.1 | 34.9 |    |
| 28       |            | 35.6        | 35.7 | 34.8 | 35.1 | 34.8 | 33.8 | 32.9 | 32.7 | 31.8 | 30.7 | 28.7 | 27.8 | 28.2 | 29.9 | 32.8 | 36.9 | 41.6 | 41.5 | 39.3 | 37.4 | 36.8 | 35.7 | 33.8 | 33.8 | 34.2 |    |
| 29       |            | 34.2        | 33.9 | 34.8 | 35.3 | 34.8 | 34.0 | 33.6 | 32.8 | 32.0 | 31.5 | 29.6 | 28.5 | 27.8 | 28.9 | 32.1 | 36.0 | 40.2 | 42.3 | 43.2 | 41.2 | 38.1 | 35.8 | 34.0 | 33.4 | 34.5 |    |
| 30       |            | 33.6        | 34.1 | 34.2 | 34.8 | 33.9 | 33.5 | 32.9 | 32.7 | 31.2 | 31.7 | 28.9 | 26.4 | 26.8 | 27.4 | 29.6 | 34.0 | 37.4 | 39.3 | 38.0 | 37.8 | 36.7 | 36.1 | 36.2 | 33.9 | 33.4 |    |
| 31       | 0          | 28.8        | 28.8 | 32.2 | 27.1 | 30.3 | 27.9 | 29.6 | 30.8 | 41.2 | 31.5 | 39.2 | 27.9 | 23.6 | 30.5 | 32.8 | 34.6 | 41.1 | 44.4 | 41.3 | 38.6 | 34.1 | 36.7 | 37.9 | 38.1 | 33.7 |    |
| MEAN ALL |            | 32.8        | 32.7 | 32.5 | 32.2 | 32.5 | 32.4 | 32.3 | 31.9 | 32.1 | 31.3 | 30.1 | 27.7 | 26.7 | 27.4 | 29.7 | 33.7 | 37.4 | 39.7 | 39.5 | 38.4 | 36.9 | 35.5 | 34.0 | 33.0 | 33.0 |    |
| MEAN 0   |            | 32.8        | 32.7 | 32.9 | 33.0 | 32.9 | 32.8 | 32.4 | 32.2 | 32.1 | 31.4 | 29.9 | 27.9 | 26.9 | 28.0 | 30.7 | 34.9 | 38.1 | 39.7 | 39.9 | 38.8 | 37.0 | 34.9 | 33.5 | 33.0 | 33.3 |    |
| MEAN 0   |            | 32.6        | 31.4 | 32.2 | 30.9 | 32.0 | 31.2 | 31.0 | 30.8 | 32.7 | 30.0 | 34.2 | 28.8 | 27.2 | 28.2 | 30.0 | 32.5 | 37.6 | 41.3 | 39.8 | 36.7 | 36.0 | 35.6 | 34.3 | 32.9 | 32.9 |    |

VERTICAL INTENSITY

TABLE 15 AGINCOURT

Z = 56000 + TABULAR VALUES IN GAMMAS

MAY 1966

| DAY      | HOUR<br>UT | 0                   | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   | 8                   | 9                    | 10                   | 11                   | 12                   | 13                   | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                   | 21                   | 22                   | 23                   | MEAN |
|----------|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|
|          |            | T <sub>0</sub><br>1 | T <sub>0</sub><br>2 | T <sub>0</sub><br>3 | T <sub>0</sub><br>4 | T <sub>0</sub><br>5 | T <sub>0</sub><br>6 | T <sub>0</sub><br>7 | T <sub>0</sub><br>8 | T <sub>0</sub><br>9 | T <sub>0</sub><br>10 | T <sub>0</sub><br>11 | T <sub>0</sub><br>12 | T <sub>0</sub><br>13 | T <sub>0</sub><br>14 | T <sub>0</sub><br>15 | T <sub>0</sub><br>16 | T <sub>0</sub><br>17 | T <sub>0</sub><br>18 | T <sub>0</sub><br>19 | T <sub>0</sub><br>20 | T <sub>0</sub><br>21 | T <sub>0</sub><br>22 | T <sub>0</sub><br>23 | T <sub>0</sub><br>24 |      |
| 1        |            | 32                  | 31                  | 28                  | 27                  | 25                  | -2                  | 9                   | 26                  | 22                  | 14                   | 21                   | 24                   | 22                   | 22                   | 22                   | 21                   | 21                   | 17                   | 20                   | 26                   | 30                   | 28                   | 36                   | 35                   | 23   |
| 2        | 0          | 32                  | 32                  | 31                  | 30                  | 31                  | 32                  | 9                   | 14                  | 8                   | 3                    | 21                   | 27                   | 26                   | 25                   | 25                   | 25                   | 25                   | 29                   | 36                   | 38                   | 41                   | 48                   | 48                   | 41                   | 28   |
| 3        |            | 35                  | 32                  | 31                  | 29                  | 26                  | 25                  | 20                  | 20                  | 23                  | 25                   | 24                   | 20                   | 16                   | 15                   | 21                   | 24                   | 24                   | 26                   | 31                   | 36                   | 43                   | 43                   | 48                   | 27                   |      |
| 4        | 0          | 44                  | 43                  | 35                  | 21                  | 3                   | 15                  | 12                  | -2                  | 10                  | 20                   | 20                   | 15                   | 17                   | 19                   | 16                   | 20                   | 22                   | 20                   | 26                   | 38                   | 47                   | 51                   | 48                   | 25                   |      |
| 5        |            | 42                  | 41                  | 37                  | 32                  | 30                  | 26                  | 14                  | 21                  | 26                  | 29                   | 30                   | 29                   | 26                   | 25                   | 24                   | 18                   | 9                    | 14                   | 25                   | 32                   | 38                   | 38                   | 36                   | 28                   |      |
| 6        |            | 31                  | 31                  | 27                  | 25                  | -6                  | 3                   | -3                  | -6                  | 8                   | 16                   | 24                   | 30                   | 31                   | 31                   | 29                   | 24                   | 21                   | 21                   | 25                   | 25                   | 26                   | 35                   | 35                   | 21                   |      |
| 7        |            | 31                  | 30                  | 29                  | 26                  | 26                  | 26                  | 25                  | 25                  | 26                  | 25                   | 26                   | 29                   | 27                   | 27                   | 25                   | 20                   | 20                   | 16                   | 15                   | 21                   | 30                   | 35                   | 38                   | 26                   |      |
| 8        |            | 32                  | 30                  | 29                  | 28                  | 28                  | 26                  | 26                  | 26                  | 25                  | 26                   | 26                   | 25                   | 24                   | 24                   | 21                   | 15                   | 18                   | 20                   | 24                   | 26                   | 31                   | 36                   | 41                   | 27                   |      |
| 9        |            | 36                  | 34                  | 31                  | 29                  | 25                  | 8                   | -3                  | 17                  | 24                  | 26                   | 27                   | 26                   | 25                   | 22                   | 21                   | 15                   | 11                   | 8                    | 13                   | 20                   | 26                   | 26                   | 29                   | 22                   |      |
| 10       | 0          | 27                  | 27                  | 27                  | 27                  | 26                  | 26                  | 26                  | 25                  | 26                  | 26                   | 27                   | 26                   | 23                   | 20                   | 17                   | 10                   | 13                   | 16                   | 15                   | 16                   | 25                   | 30                   | 30                   | 23                   |      |
| 11       | 0          | 25                  | 25                  | 25                  | 25                  | 25                  | 25                  | 24                  | 24                  | 25                  | 25                   | 25                   | 22                   | 20                   | 18                   | 14                   | 13                   | 14                   | 14                   | 11                   | 20                   | 26                   | 36                   | 42                   | 24                   |      |
| 12       |            | 38                  | 35                  | 30                  | 27                  | 20                  | 20                  | 20                  | 21                  | 25                  | 25                   | 25                   | 25                   | 24                   | 20                   | 19                   | 20                   | 22                   | 27                   | 32                   | 35                   | 35                   | 32                   | 31                   | 27                   |      |
| 13       |            | 26                  | 26                  | 26                  | 25                  | 20                  | 21                  | 24                  | 21                  | 13                  | -6                   | 8                    | 14                   | 15                   | 19                   | 14                   | 7                    | 3                    | 2                    | 3                    | 8                    | 15                   | 21                   | 23                   | 15                   |      |
| 14       | 0          | 20                  | 21                  | 20                  | 21                  | 20                  | 20                  | 17                  | 19                  | 20                  | 23                   | 24                   | 21                   | 18                   | 15                   | 13                   | 10                   | 12                   | 7                    | 10                   | 13                   | 20                   | 23                   | 24                   | 18                   |      |
| 15       | 0          | 22                  | 21                  | 20                  | 20                  | 21                  | 21                  | 21                  | 20                  | 20                  | 21                   | 24                   | 23                   | 23                   | 21                   | 20                   | 18                   | 17                   | 16                   | 14                   | 24                   | 26                   | 25                   | 27                   | 21                   |      |
| 16       |            | 21                  | 20                  | 20                  | 20                  | 20                  | 20                  | 21                  | 20                  | 20                  | 24                   | 24                   | 23                   | 20                   | 19                   | 18                   | 18                   | 20                   | 20                   | 21                   | 20                   | 21                   | 25                   | 29                   | 21                   |      |
| 17       |            | 30                  | 31                  | 25                  | 15                  | 25                  | 26                  | 25                  | 25                  | 25                  | 21                   | 25                   | 27                   | 26                   | 26                   | 23                   | 20                   | 18                   | 18                   | 20                   | 26                   | 31                   | 35                   | 36                   | 26                   |      |
| 18       |            | 33                  | 30                  | 26                  | 21                  | 20                  | 19                  | 24                  | 25                  | 23                  | 21                   | 26                   | 26                   | 23                   | 16                   | 13                   | 13                   | 18                   | 21                   | 22                   | 20                   | 21                   | 22                   | 22                   | 22                   |      |
| 19       |            | 25                  | 25                  | 24                  | 24                  | 21                  | 19                  | 20                  | 24                  | 25                  | 29                   | 31                   | 30                   | 25                   | 22                   | 22                   | 25                   | 26                   | 25                   | 24                   | 31                   | 36                   | 35                   | 34                   | 26                   |      |
| 20       |            | 26                  | 25                  | 25                  | 25                  | 24                  | 24                  | 21                  | 17                  | 9                   | 16                   | 22                   | 26                   | 24                   | 20                   | 20                   | 17                   | 10                   | 13                   | 20                   | 30                   | 35                   | 37                   | 36                   | 23                   |      |
| 21       |            | 25                  | 25                  | 24                  | 24                  | 24                  | 21                  | 21                  | 21                  | 23                  | 25                   | 26                   | 26                   | 24                   | 17                   | 10                   | 4                    | 8                    | 15                   | 18                   | 23                   | 25                   | 26                   | 30                   | 21                   |      |
| 22       |            | 26                  | 23                  | 22                  | 22                  | 22                  | 21                  | 20                  | 20                  | 21                  | 25                   | 27                   | 26                   | 27                   | 18                   | 14                   | 14                   | 14                   | 11                   | 9                    | 16                   | 25                   | 24                   | 25                   | 21                   |      |
| 23       | 0          | 25                  | 23                  | 22                  | 22                  | 21                  | 21                  | 21                  | 21                  | 23                  | 26                   | 26                   | 26                   | 25                   | 17                   | 13                   | 11                   | 17                   | 18                   | 14                   | 19                   | 27                   | 31                   | 27                   | 21                   |      |
| 24       | 0          | 22                  | 22                  | 21                  | 21                  | 22                  | 21                  | 20                  | 21                  | 22                  | 26                   | 26                   | 22                   | 25                   | 26                   | 24                   | 16                   | 11                   | 9                    | 19                   | 27                   | 27                   | 26                   | 27                   | 22                   |      |
| 25       |            | 26                  | 25                  | 22                  | 23                  | 23                  | 22                  | 21                  | 22                  | 22                  | 26                   | 27                   | 27                   | 25                   | 15                   | 11                   | 10                   | 8                    | 5                    | 11                   | 20                   | 22                   | 26                   | 27                   | 21                   |      |
| 26       | 0          | 21                  | 21                  | 21                  | 21                  | 20                  | 21                  | 21                  | 21                  | 14                  | -36                  | -188                 | -127                 | -93                  | -26                  | 2                    | 14                   | 26                   | 59                   | 194                  | 297                  | 226                  | 215                  | 171                  | 148                  | 44   |
| 27       |            | 55                  | 53                  | 43                  | 40                  | 40                  | 43                  | 43                  | 44                  | 45                  | 45                   | 45                   | 43                   | 40                   | 38                   | 39                   | 38                   | 34                   | 33                   | 43                   | 44                   | 42                   | 43                   | 43                   | 43                   |      |
| 28       |            | 42                  | 38                  | 38                  | 38                  | 39                  | 39                  | 31                  | 27                  | 35                  | 39                   | 40                   | 38                   | 34                   | 32                   | 33                   | 38                   | 38                   | 39                   | 41                   | 44                   | 47                   | 48                   | 48                   | 39                   |      |
| 29       |            | 41                  | 39                  | 38                  | 38                  | 39                  | 38                  | 38                  | 38                  | 38                  | 39                   | 39                   | 39                   | 35                   | 38                   | 39                   | 35                   | 37                   | 34                   | 32                   | 28                   | 33                   | 37                   | 40                   | 37                   |      |
| 30       |            | 44                  | 41                  | 40                  | 39                  | 38                  | 38                  | 39                  | 38                  | 38                  | 36                   | 37                   | 40                   | 38                   | 38                   | 32                   | 29                   | 30                   | 28                   | 33                   | 45                   | 45                   | 60                   | 61                   | 41                   |      |
| 31       | 0          | 53                  | 48                  | 48                  | 37                  | -57                 | -9                  | 37                  | -14                 | -75                 | -36                  | -72                  | -13                  | 7                    | 8                    | 10                   | 21                   | 34                   | 44                   | 75                   | 177                  | 160                  | 161                  | 155                  | 39                   |      |
| MEAN ALL |            | 32                  | 31                  | 29                  | 26                  | 21                  | 22                  | 22                  | 21                  | 20                  | 20                   | 17                   | 21                   | 21                   | 21                   | 20                   | 19                   | 19                   | 21                   | 29                   | 40                   | 41                   | 44                   | 43                   | 41                   | 27   |
| MEAN 0   |            | 23                  | 23                  | 22                  | 22                  | 22                  | 22                  | 21                  | 21                  | 22                  | 24                   | 25                   | 23                   | 23                   | 20                   | 17                   | 13                   | 14                   | 13                   | 15                   | 20                   | 25                   | 27                   | 27                   | 25                   | 21   |
| MEAN 0   |            | 35                  | 34                  | 32                  | 27                  | 4                   | 17                  | 20                  | 9                   | -4                  | -5                   | -39                  | -15                  | -5                   | 9                    | 14                   | 19                   | 24                   | 33                   | 69                   | 114                  | 100                  | 102                  | 93                   | 85                   | 32   |

AGINCOURT MAGNETIC OBSERVATORY 1966

## HORIZONTAL INTENSITY

| TABLE 16 |        | AGINCOURT |     | H = 15500 + TABULAR VALUES IN GAMMAS |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      | JUNE 1966 |  |
|----------|--------|-----------|-----|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------|--|
| DAY      | HOURLY | 0         | 1   | 2                                    | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | MEAN |           |  |
|          | UT     | T0        | T0  | T0                                   | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  |      |           |  |
|          |        | 1         | 2   | 3                                    | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |      |           |  |
| 1        | U      | 649       | 613 | 623                                  | 629 | 637 | 617 | 627 | 629 | 632 | 629 | 632 | 630 | 624 | 616 | 607 | 608 | 622 | 635 | 651 | 654 | 662 | 656 | 654 | 646 | 633  |           |  |
| 2        | U      | 647       | 649 | 653                                  | 649 | 647 | 649 | 650 | 645 | 651 | 656 | 650 | 645 | 650 | 653 | 631 | 606 | 625 | 633 | 634 | 644 | 656 | 652 | 653 | 661 | 645  |           |  |
| 3        |        | 653       | 660 | 656                                  | 659 | 662 | 660 | 662 | 659 | 660 | 660 | 657 | 662 | 660 | 656 | 646 | 647 | 649 | 654 | 645 | 663 | 666 | 660 | 660 | 651 | 657  |           |  |
| 4        |        | 655       | 661 | 659                                  | 656 | 655 | 655 | 655 | 656 | 658 | 657 | 656 | 656 | 651 | 644 | 634 | 631 | 629 | 643 | 656 | 666 | 667 | 661 | 682 | 667 | 654  |           |  |
| 5        |        | 667       | 668 | 673                                  | 673 | 668 | 665 | 662 | 665 | 667 | 666 | 669 | 660 | 660 | 654 | 640 | 643 | 645 | 649 | 652 | 660 | 670 | 671 | 671 | 668 | 662  |           |  |
| 6        |        | 671       | 671 | 667                                  | 660 | 657 | 660 | 665 | 666 | 666 | 669 | 673 | 668 | 660 | 650 | 643 | 635 | 643 | 645 | 652 | 662 | 667 | 665 | 666 | 662 | 660  |           |  |
| 7        |        | 667       | 667 | 672                                  | 665 | 656 | 661 | 665 | 667 | 662 | 650 | 653 | 667 | 661 | 649 | 633 | 640 | 646 | 654 | 660 | 667 | 671 | 678 | 668 | 667 | 660  |           |  |
| 8        |        | 666       | 663 | 658                                  | 658 | 660 | 661 | 661 | 662 | 660 | 656 | 659 | 667 | 664 | 651 | 643 | 636 | 638 | 643 | 656 | 665 | 667 | 667 | 665 | 662 | 658  |           |  |
| 9        | U      | 663       | 662 | 665                                  | 664 | 665 | 664 | 665 | 665 | 666 | 661 | 665 | 662 | 661 | 655 | 646 | 641 | 644 | 654 | 667 | 673 | 674 | 669 | 665 | 666 | 662  |           |  |
| 10       | U      | 668       | 667 | 665                                  | 662 | 662 | 663 | 665 | 665 | 667 | 668 | 671 | 671 | 663 | 645 | 632 | 630 | 650 | 668 | 690 | 698 | 693 | 682 | 676 | 673 | 666  |           |  |
| 11       | U      | 673       | 672 | 673                                  | 672 | 670 | 668 | 667 | 672 | 672 | 668 | 671 | 667 | 662 | 651 | 645 | 650 | 663 | 680 | 695 | 704 | 704 | 693 | 684 | 676 | 673  |           |  |
| 12       |        | 678       | 679 | 677                                  | 673 | 662 | 654 | 650 | 647 | 656 | 662 | 660 | 649 | 645 | 640 | 645 | 655 | 672 | 678 | 686 | 687 | 695 | 676 | 657 | 667 | 665  |           |  |
| 13       |        | 660       | 662 | 661                                  | 661 | 655 | 650 | 650 | 651 | 649 | 655 | 656 | 651 | 644 | 638 | 634 | 640 | 649 | 667 | 677 | 683 | 677 | 666 | 671 | 667 | 657  |           |  |
| 14       |        | 667       | 673 | 666                                  | 661 | 660 | 660 | 656 | 657 | 667 | 660 | 657 | 657 | 658 | 655 | 646 | 639 | 643 | 657 | 660 | 672 | 667 | 678 | 668 | 662 | 660  |           |  |
| 15       |        | 662       | 661 | 660                                  | 662 | 662 | 662 | 662 | 660 | 661 | 662 | 665 | 659 | 656 | 657 | 655 | 651 | 650 | 662 | 671 | 679 | 676 | 693 | 695 | 673 | 665  |           |  |
| 16       |        | 661       | 667 | 671                                  | 662 | 660 | 660 | 662 | 660 | 662 | 664 | 666 | 662 | 651 | 643 | 632 | 627 | 630 | 643 | 660 | 667 | 679 | 682 | 677 | 668 | 659  |           |  |
| 17       |        | 666       | 667 | 668                                  | 671 | 662 | 665 | 668 | 666 | 665 | 667 | 669 | 667 | 663 | 656 | 645 | 639 | 649 | 657 | 667 | 679 | 684 | 690 | 666 | 662 | 665  |           |  |
| 18       | U      | 662       | 666 | 666                                  | 663 | 666 | 663 | 662 | 661 | 663 | 667 | 667 | 663 | 656 | 651 | 640 | 633 | 639 | 648 | 651 | 666 | 679 | 682 | 683 | 679 | 661  |           |  |
| 19       |        | 667       | 667 | 668                                  | 671 | 673 | 676 | 674 | 667 | 667 | 672 | 676 | 676 | 667 | 644 | 651 | 660 | 665 | 671 | 673 | 671 | 682 | 665 | 671 | 672 | 669  |           |  |
| 20       |        | 671       | 670 | 673                                  | 671 | 671 | 675 | 662 | 658 | 661 | 665 | 667 | 665 | 656 | 638 | 627 | 623 | 638 | 657 | 683 | 671 | 684 | 684 | 677 | 671 | 663  |           |  |
| 21       |        | 667       | 665 | 667                                  | 661 | 662 | 665 | 665 | 662 | 660 | 662 | 661 | 660 | 657 | 650 | 639 | 627 | 632 | 644 | 656 | 667 | 680 | 677 | 672 | 669 | 659  |           |  |
| 22       | U      | 667       | 667 | 665                                  | 666 | 666 | 666 | 666 | 661 | 661 | 665 | 667 | 671 | 667 | 656 | 641 | 634 | 640 | 651 | 665 | 671 | 676 | 676 | 682 | 675 | 663  |           |  |
| 23       | U      | 667       | 672 | 673                                  | 671 | 671 | 673 | 673 | 677 | 676 | 671 | 666 | 673 | 660 | 649 | 627 | 633 | 640 | 662 | 677 | 664 | 673 | 665 | 679 | 689 | 666  |           |  |
| 24       | U      | 674       | 671 | 676                                  | 678 | 677 | 680 | 684 | 682 | 681 | 672 | 672 | 667 | 662 | 649 | 650 | 657 | 679 | 700 | 699 | 712 | 687 | 682 | 655 | 662 | 675  |           |  |
| 25       | U      | 652       | 660 | 656                                  | 638 | 650 | 655 | 640 | 643 | 651 | 649 | 638 | 654 | 662 | 652 | 649 | 639 | 627 | 649 | 662 | 671 | 679 | 679 | 671 | 662 | 654  |           |  |
| 26       |        | 659       | 657 | 660                                  | 661 | 661 | 660 | 660 | 656 | 656 | 652 | 649 | 658 | 657 | 650 | 654 | 647 | 660 | 656 | 663 | 667 | 671 | 673 | 667 | 660 | 659  |           |  |
| 27       |        | 662       | 659 | 659                                  | 660 | 657 | 660 | 660 | 657 | 658 | 658 | 659 | 655 | 649 | 639 | 634 | 636 | 649 | 662 | 667 | 682 | 684 | 681 | 677 | 674 | 660  |           |  |
| 28       |        | 671       | 668 | 667                                  | 667 | 666 | 662 | 665 | 665 | 666 | 667 | 669 | 668 | 662 | 653 | 647 | 645 | 642 | 647 | 657 | 675 | 678 | 687 | 679 | 684 | 665  |           |  |
| 29       |        | 676       | 656 | 662                                  | 662 | 662 | 660 | 657 | 656 | 656 | 659 | 660 | 660 | 658 | 649 | 634 | 634 | 645 | 656 | 672 | 678 | 689 | 687 | 686 | 669 | 662  |           |  |
| 30       |        | 666       | 668 | 667                                  | 657 | 656 | 658 | 657 | 649 | 646 | 645 | 658 | 661 | 655 | 640 | 622 | 617 | 632 | 651 | 666 | 681 | 684 | 683 | 679 | 666 | 657  |           |  |
| MEAN ALL |        | 664       | 664 | 664                                  | 662 | 661 | 661 | 660 | 659 | 661 | 660 | 661 | 661 | 657 | 648 | 639 | 637 | 644 | 656 | 666 | 673 | 677 | 675 | 672 | 668 | 660  |           |  |
| MEAN U   |        | 666       | 667 | 667                                  | 665 | 666 | 665 | 665 | 665 | 666 | 666 | 668 | 667 | 662 | 651 | 641 | 637 | 647 | 660 | 673 | 683 | 685 | 681 | 678 | 674 | 665  |           |  |
| MEAN U   |        | 658       | 653 | 656                                  | 653 | 656 | 655 | 655 | 655 | 658 | 656 | 652 | 654 | 651 | 644 | 633 | 628 | 639 | 656 | 664 | 669 | 671 | 667 | 662 | 664 | 655  |           |  |

## DECLINATION

TABLE 17 AGINCOURT

D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES

JUNE 1966

| DAY      | HOUR<br>UT | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       | 19       | 20       | 21       | 22       | 23       | MEAN |      |
|----------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|------|
|          |            | T0<br>1 | T0<br>2 | T0<br>3 | T0<br>4 | T0<br>5 | T0<br>6 | T0<br>7 | T0<br>8 | T0<br>9 | T0<br>10 | T0<br>11 | T0<br>12 | T0<br>13 | T0<br>14 | T0<br>15 | T0<br>16 | T0<br>17 | T0<br>18 | T0<br>19 | T0<br>20 | T0<br>21 | T0<br>22 | T0<br>23 | T0<br>24 |      |      |
| 1        | D          | 33.6    | 33.8    | 34.8    | 35.3    | 32.8    | 36.0    | 29.8    | 33.9    | 33.1    | 32.0     | 29.8     | 27.5     | 27.5     | 30.6     | 31.0     | 33.0     | 35.8     | 37.5     | 38.1     | 38.1     | 37.3     | 36.0     | 34.3     | 34.0     | 33.6 |      |
| 2        | D          | 34.0    | 33.9    | 33.8    | 33.8    | 34.0    | 34.2    | 33.9    | 33.6    | 33.1    | 31.6     | 30.8     | 35.2     | 28.7     | 25.4     | 27.7     | 32.8     | 41.3     | 42.1     | 41.4     | 41.5     | 39.4     | 37.4     | 34.1     | 32.5     | 34.4 |      |
| 3        |            | 32.8    | 32.9    | 32.9    | 32.7    | 30.6    | 32.0    | 32.7    | 32.7    | 31.6    | 30.5     | 28.2     | 26.5     | 25.2     | 25.2     | 28.8     | 31.7     | 32.9     | 37.9     | 41.3     | 40.1     | 37.3     | 35.2     | 32.8     | 31.6     | 32.3 |      |
| 4        |            | 31.8    | 31.6    | 31.8    | 27.5    | 32.8    | 33.9    | 33.8    | 32.9    | 32.4    | 30.9     | 28.8     | 27.3     | 26.4     | 27.4     | 28.7     | 32.7     | 34.7     | 37.5     | 38.2     | 38.1     | 37.1     | 36.0     | 34.0     | 34.1     | 32.5 |      |
| 5        |            | 33.2    | 33.0    | 32.0    | 32.6    | 32.6    | 32.8    | 33.4    | 31.8    | 31.6    | 29.6     | 27.6     | 27.5     | 25.5     | 24.3     | 26.4     | 30.4     | 34.1     | 37.3     | 38.9     | 39.1     | 37.0     | 35.0     | 33.9     | 33.0     | 32.2 |      |
| 6        |            | 32.4    | 31.7    | 28.9    | 32.7    | 28.8    | 29.6    | 30.9    | 30.8    | 30.6    | 29.1     | 26.7     | 25.4     | 24.3     | 23.8     | 26.4     | 30.5     | 34.0     | 37.1     | 40.0     | 40.4     | 39.3     | 37.3     | 35.2     | 34.1     | 31.7 |      |
| 7        |            | 33.9    | 34.2    | 33.6    | 25.3    | 31.7    | 31.7    | 32.8    | 33.0    | 32.9    | 31.5     | 33.0     | 26.7     | 24.5     | 26.3     | 31.0     | 34.8     | 35.8     | 40.3     | 42.0     | 41.5     | 38.6     | 35.8     | 34.1     | 32.1     | 33.2 |      |
| 8        |            | 32.1    | 32.6    | 32.0    | 32.1    | 32.9    | 33.4    | 33.8    | 33.0    | 35.9    | 38.1     | 34.1     | 29.6     | 25.6     | 27.0     | 28.7     | 31.6     | 34.9     | 36.7     | 37.0     | 37.9     | 37.1     | 36.5     | 34.8     | 33.6     | 33.4 |      |
| 9        | Q          | 32.7    | 32.8    | 32.9    | 33.6    | 33.8    | 33.8    | 33.1    | 32.8    | 33.1    | 32.9     | 30.6     | 27.4     | 26.4     | 27.4     | 30.6     | 34.5     | 36.7     | 38.1     | 39.1     | 39.1     | 37.3     | 34.8     | 32.8     | 32.7     | 33.3 |      |
| 10       | Q          | 33.0    | 33.6    | 33.1    | 32.7    | 32.3    | 33.0    | 32.7    | 31.8    | 31.8    | 30.9     | 28.7     | 27.5     | 26.8     | 28.6     | 30.7     | 33.6     | 36.1     | 37.3     | 38.0     | 37.1     | 35.9     | 34.7     | 33.9     | 33.9     | 32.8 |      |
| 11       | Q          | 33.9    | 33.9    | 33.9    | 33.8    | 33.2    | 32.7    | 31.7    | 30.9    | 29.7    | 28.7     | 26.4     | 26.5     | 26.5     | 29.5     | 32.7     | 34.1     | 36.9     | 39.8     | 40.1     | 37.3     | 34.8     | 32.8     | 32.6     | 33.9     | 32.7 |      |
| 12       |            | 34.9    | 34.8    | 34.7    | 33.8    | 30.7    | 33.8    | 29.7    | 29.5    | 29.6    | 29.9     | 29.0     | 27.6     | 30.8     | 30.8     | 33.9     | 38.0     | 37.9     | 38.1     | 37.9     | 36.1     | 33.8     | 33.8     | 34.0     | 33.6     | 33.2 |      |
| 13       |            | 33.0    | 33.9    | 34.7    | 32.6    | 31.8    | 32.0    | 34.8    | 29.8    | 29.8    | 28.6     | 27.4     | 25.4     | 25.3     | 26.7     | 29.7     | 33.9     | 35.8     | 36.7     | 36.9     | 35.9     | 34.5     | 34.1     | 33.8     | 34.0     | 32.1 |      |
| 14       |            | 34.2    | 32.7    | 32.8    | 33.5    | 32.9    | 32.6    | 32.0    | 30.7    | 33.8    | 32.8     | 29.5     | 27.7     | 26.5     | 28.5     | 29.5     | 32.8     | 36.8     | 38.8     | 39.3     | 39.9     | 39.3     | 36.9     | 35.9     | 34.7     | 33.5 |      |
| 15       |            | 33.8    | 34.0    | 34.0    | 33.6    | 33.4    | 32.7    | 32.0    | 31.6    | 31.7    | 31.3     | 29.0     | 27.1     | 25.6     | 26.5     | 26.7     | 29.5     | 34.0     | 37.3     | 39.2     | 38.3     | 39.1     | 36.2     | 35.3     | 35.9     | 32.8 |      |
| 16       |            | 33.6    | 33.6    | 34.6    | 32.9    | 32.7    | 32.0    | 31.8    | 31.0    | 30.8    | 30.6     | 28.8     | 27.8     | 27.3     | 27.6     | 27.7     | 33.0     | 37.0     | 40.2     | 40.0     | 39.4     | 38.1     | 35.9     | 34.8     | 33.1     | 33.1 |      |
| 17       |            | 32.8    | 32.9    | 33.0    | 31.7    | 32.7    | 32.6    | 32.6    | 32.6    | 32.2    | 31.4     | 30.5     | 28.4     | 26.1     | 25.4     | 28.4     | 33.7     | 38.8     | 41.3     | 42.1     | 41.3     | 39.9     | 36.7     | 34.6     | 33.1     | 33.5 |      |
| 18       | Q          | 32.5    | 32.7    | 32.7    | 31.7    | 30.6    | 32.9    | 33.5    | 32.9    | 32.1    | 31.1     | 28.6     | 26.8     | 25.0     | 25.2     | 26.4     | 30.6     | 35.0     | 39.0     | 40.0     | 39.0     | 37.0     | 35.8     | 33.7     | 31.5     | 32.3 |      |
| 19       |            | 31.2    | 31.4    | 32.6    | 33.0    | 33.1    | 32.8    | 32.7    | 32.5    | 31.5    | 29.5     | 28.4     | 25.3     | 24.4     | 23.2     | 25.3     | 27.5     | 32.9     | 37.9     | 39.2     | 39.2     | 39.2     | 36.6     | 35.8     | 33.7     | 31.5 | 31.7 |
| 20       |            | 31.2    | 31.6    | 31.8    | 31.6    | 33.0    | 31.0    | 32.6    | 32.6    | 35.8    | 34.5     | 28.5     | 26.3     | 26.3     | 27.2     | 29.4     | 35.5     | 38.3     | 39.7     | 40.0     | 41.9     | 38.1     | 34.7     | 32.6     | 31.5     | 33.2 |      |
| 21       |            | 30.8    | 32.6    | 31.5    | 30.5    | 33.4    | 33.6    | 33.7    | 33.4    | 33.6    | 32.7     | 29.2     | 27.4     | 26.3     | 26.7     | 27.4     | 31.8     | 34.8     | 37.9     | 40.9     | 40.9     | 38.0     | 35.9     | 33.7     | 32.5     | 32.9 |      |
| 22       | Q          | 32.4    | 32.7    | 33.3    | 33.5    | 33.2    | 32.6    | 32.4    | 32.7    | 32.5    | 32.4     | 30.5     | 28.6     | 26.9     | 27.0     | 28.3     | 29.9     | 33.3     | 36.5     | 37.0     | 36.7     | 36.7     | 35.8     | 33.9     | 32.4     | 32.5 |      |
| 23       | D          | 31.3    | 30.5    | 30.6    | 31.3    | 31.5    | 31.5    | 31.4    | 30.9    | 30.3    | 31.0     | 34.6     | 27.3     | 24.1     | 25.2     | 25.9     | 32.7     | 34.6     | 37.9     | 39.7     | 42.1     | 41.0     | 37.6     | 34.5     | 33.2     | 32.5 |      |
| 24       | D          | 32.4    | 32.3    | 32.5    | 32.5    | 32.6    | 32.5    | 31.3    | 30.5    | 30.1    | 30.3     | 27.8     | 25.2     | 23.6     | 23.8     | 25.0     | 29.2     | 33.5     | 35.4     | 36.5     | 39.7     | 41.7     | 39.8     | 37.6     | 34.7     | 32.1 |      |
| 25       | D          | 32.0    | 29.2    | 30.2    | 24.8    | 25.0    | 27.9    | 33.6    | 33.0    | 33.0    | 32.2     | 35.9     | 33.6     | 25.8     | 23.8     | 26.1     | 28.3     | 32.4     | 34.4     | 39.7     | 42.6     | 39.8     | 35.8     | 34.5     | 34.3     | 32.0 |      |
| 26       |            | 33.5    | 33.4    | 32.6    | 32.4    | 32.4    | 32.3    | 32.4    | 31.7    | 31.6    | 31.1     | 29.4     | 27.0     | 26.0     | 25.9     | 28.4     | 29.2     | 33.5     | 35.7     | 38.5     | 39.0     | 37.6     | 35.4     | 34.7     | 33.5     | 32.4 |      |
| 27       |            | 32.4    | 32.4    | 32.3    | 32.3    | 32.5    | 32.5    | 32.6    | 32.4    | 32.2    | 31.1     | 29.4     | 27.0     | 24.9     | 24.0     | 26.7     | 30.3     | 33.4     | 36.5     | 38.8     | 37.8     | 37.3     | 36.6     | 35.5     | 34.3     | 32.3 |      |
| 28       |            | 33.6    | 33.5    | 33.5    | 33.4    | 32.3    | 31.2    | 31.3    | 31.2    | 31.1    | 30.1     | 28.0     | 24.9     | 24.2     | 24.7     | 25.9     | 28.9     | 33.4     | 36.5     | 40.0     | 40.7     | 39.8     | 37.8     | 35.7     | 34.3     | 32.3 |      |
| 29       |            | 33.1    | 33.3    | 32.6    | 33.5    | 33.0    | 32.2    | 31.8    | 31.5    | 31.2    | 30.3     | 28.6     | 26.0     | 24.6     | 24.5     | 25.8     | 29.9     | 33.3     | 37.2     | 41.2     | 41.9     | 39.9     | 36.9     | 35.3     | 34.0     | 32.6 |      |
| 30       |            | 33.5    | 33.4    | 30.3    | 30.7    | 31.6    | 32.2    | 31.3    | 30.6    | 30.7    | 31.9     | 28.0     | 24.9     | 23.1     | 23.9     | 27.3     | 33.3     | 36.9     | 39.9     | 41.1     | 38.8     | 36.6     | 35.6     | 33.5     | 30.3     | 32.0 |      |
| MEAN ALL |            | 32.9    | 32.8    | 32.7    | 32.0    | 32.1    | 32.5    | 32.4    | 32.0    | 32.0    | 31.3     | 29.5     | 27.4     | 25.8     | 26.2     | 28.2     | 31.9     | 35.3     | 38.0     | 39.4     | 39.4     | 37.9     | 35.9     | 34.3     | 33.3     | 32.7 |      |
| MEAN Q   |            | 32.9    | 33.1    | 33.2    | 33.1    | 32.6    | 33.0    | 32.7    | 32.2    | 31.9    | 31.2     | 28.9     | 27.4     | 26.3     | 27.5     | 29.6     | 32.5     | 35.6     | 38.1     | 38.8     | 37.8     | 36.3     | 34.8     | 33.4     | 32.9     | 32.7 |      |
| MEAN D   |            | 32.7    | 31.9    | 32.4    | 31.5    | 31.2    | 32.4    | 32.0    | 32.4    | 31.9    | 31.4     | 31.8     | 29.8     | 25.9     | 25.8     | 27.2     | 31.2     | 35.5     | 37.5     | 39.1     | 40.8     | 39.8     | 37.3     | 35.0     | 33.7     | 32.9 |      |

## VERTICAL INTENSITY

| TABLE 18 |        | AGINCOURT |    |     |    |    |     |     |    |    |    |    |     |    |    |    |    |    |    |    |    | Z = 56000 + TABULAR VALUES IN GAMMAS |    | JUNE 1966 |    |      |  |  |
|----------|--------|-----------|----|-----|----|----|-----|-----|----|----|----|----|-----|----|----|----|----|----|----|----|----|--------------------------------------|----|-----------|----|------|--|--|
| DAY      | HOURLY | 0         | 1  | 2   | 3  | 4  | 5   | 6   | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20                                   | 21 | 22        | 23 | MEAN |  |  |
|          | UT     | T0        | T0 | T0  | T0 | T0 | T0  | T0  | T0 | T0 | T0 | T0 | T0  | T0 | T0 | T0 | T0 | T0 | T0 | T0 | T0 | T0                                   | T0 | T0        | T0 |      |  |  |
|          |        | 1         | 2  | 3   | 4  | 5  | 6   | 7   | 8  | 9  | 10 | 11 | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21                                   | 22 | 23        | 24 |      |  |  |
| 1        | U      | 110       | 93 | 67  | 55 | 42 | 27  | 26  | 49 | 49 | 53 | 53 | 51  | 50 | 44 | 35 | 33 | 37 | 33 | 36 | 37 | 42                                   | 42 | 44        | 43 | 48   |  |  |
| 2        | U      | 42        | 40 | 38  | 38 | 39 | 39  | 37  | 38 | 40 | 42 | 36 | 13  | 11 | 14 | 13 | 16 | 31 | 28 | 31 | 39 | 44                                   | 48 | 48        | 49 | 34   |  |  |
| 3        |        | 43        | 42 | 39  | 38 | 32 | 30  | 31  | 33 | 36 | 41 | 41 | 38  | 33 | 28 | 22 | 15 | 13 | 21 | 26 | 33 | 36                                   | 36 | 42        | 42 | 33   |  |  |
| 4        |        | 41        | 38 | 36  | 31 | 30 | 35  | 35  | 36 | 36 | 37 | 38 | 37  | 35 | 32 | 25 | 26 | 21 | 20 | 20 | 30 | 36                                   | 34 | 41        | 38 | 33   |  |  |
| 5        |        | 38        | 41 | 38  | 32 | 26 | 21  | 25  | 26 | 31 | 35 | 36 | 31  | 30 | 26 | 20 | 20 | 25 | 26 | 30 | 31 | 31                                   | 31 | 35        | 35 | 30   |  |  |
| 6        |        | 34        | 35 | 31  | 30 | 30 | 30  | 31  | 31 | 31 | 35 | 35 | 31  | 29 | 27 | 24 | 21 | 23 | 24 | 25 | 24 | 25                                   | 30 | 34        | 34 | 29   |  |  |
| 7        |        | 34        | 31 | 30  | 24 | 24 | 30  | 30  | 30 | 19 | 12 | 12 | 19  | 28 | 29 | 24 | 17 | 14 | 19 | 25 | 30 | 35                                   | 40 | 40        | 40 | 27   |  |  |
| 8        |        | 34        | 34 | 34  | 31 | 29 | 30  | 29  | 29 | 25 | 16 | 11 | 13  | 19 | 23 | 23 | 19 | 19 | 16 | 17 | 24 | 28                                   | 28 | 29        | 32 | 25   |  |  |
| 9        | Q      | 33        | 31 | 30  | 30 | 30 | 29  | 29  | 29 | 30 | 31 | 32 | 29  | 30 | 34 | 34 | 33 | 29 | 28 | 32 | 35 | 38                                   | 35 | 36        | 36 | 32   |  |  |
| 10       | Q      | 33        | 33 | 32  | 30 | 28 | 32  | 28  | 28 | 28 | 32 | 33 | 32  | 29 | 32 | 32 | 29 | 23 | 18 | 21 | 27 | 27                                   | 28 | 29        | 32 | 29   |  |  |
| 11       | Q      | 28        | 28 | 27  | 27 | 28 | 29  | 29  | 28 | 27 | 28 | 28 | 28  | 28 | 29 | 28 | 27 | 27 | 27 | 29 | 29 | 28                                   | 27 | 28        | 27 | 28   |  |  |
| 12       |        | 27        | 27 | 27  | 28 | 27 | 25  | 26  | 26 | 32 | 33 | 32 | 31  | 26 | 22 | 27 | 32 | 31 | 23 | 25 | 28 | 37                                   | 34 | 35        | 39 | 29   |  |  |
| 13       |        | 32        | 31 | 30  | 30 | 29 | 28  | 13  | 15 | 21 | 29 | 36 | 31  | 29 | 26 | 25 | 25 | 24 | 22 | 25 | 26 | 26                                   | 31 | 31        | 31 | 27   |  |  |
| 14       |        | 30        | 25 | 25  | 30 | 30 | 30  | 27  | 25 | 14 | 15 | 21 | 24  | 25 | 28 | 29 | 20 | 20 | 24 | 29 | 31 | 31                                   | 37 | 40        | 41 | 27   |  |  |
| 15       |        | 36        | 34 | 34  | 30 | 29 | 29  | 29  | 28 | 28 | 30 | 34 | 34  | 31 | 25 | 19 | 24 | 23 | 23 | 22 | 24 | 29                                   | 36 | 45        | 51 | 30   |  |  |
| 16       |        | 47        | 39 | 35  | 34 | 32 | 30  | 29  | 29 | 30 | 31 | 33 | 35  | 29 | 22 | 18 | 24 | 24 | 20 | 23 | 24 | 24                                   | 29 | 33        | 35 | 30   |  |  |
| 17       |        | 30        | 28 | 27  | 24 | 28 | 27  | 24  | 25 | 27 | 28 | 30 | 33  | 28 | 24 | 16 | 1  | -1 | 5  | 12 | 17 | 14                                   | 22 | 27        | 28 | 22   |  |  |
| 18       | Q      | 27        | 24 | 23  | 22 | 21 | 22  | 22  | 23 | 27 | 28 | 31 | 28  | 27 | 22 | 22 | 21 | 16 | 16 | 17 | 21 | 27                                   | 29 | 27        | 27 | 24   |  |  |
| 19       |        | 26        | 23 | 21  | 21 | 21 | 21  | 20  | 20 | 22 | 27 | 26 | 21  | 19 | 14 | 6  | -2 | -2 | 1  | 10 | 15 | 21                                   | 26 | 28        | 31 | 18   |  |  |
| 20       |        | 25        | 21 | 20  | 20 | 20 | 14  | 8   | 14 | 15 | 15 | 24 | 25  | 24 | 20 | 21 | 25 | 27 | 23 | 25 | 20 | 24                                   | 31 | 28        | 25 | 21   |  |  |
| 21       |        | 23        | 23 | 23  | 23 | 22 | 22  | 20  | 19 | 19 | 19 | 19 | 19  | 15 | 14 | 11 | 8  | 3  | 8  | 13 | 18 | 17                                   | 19 | 24        | 25 | 18   |  |  |
| 22       | Q      | 24        | 23 | 20  | 20 | 20 | 19  | 18  | 16 | 19 | 19 | 24 | 25  | 26 | 29 | 26 | 18 | 8  | 1  | 1  | 2  | 10                                   | 18 | 19        | 24 | 18   |  |  |
| 23       | U      | 28        | 24 | 23  | 23 | 22 | 19  | 19  | 19 | 19 | 19 | 6  | -5  | -3 | 2  | 4  | 5  | 7  | 18 | 35 | 58 | 63                                   | 58 | 51        | 39 | 23   |  |  |
| 24       | U      | 27        | 22 | 21  | 18 | 17 | 16  | 17  | 17 | 17 | 19 | 21 | 20  | 16 | 6  | 4  | 1  | 1  | -1 | 4  | 22 | 32                                   | 45 | 51        | 46 | 19   |  |  |
| 25       | U      | 38        | 16 | -13 | -5 | -0 | -12 | -13 | -5 | 15 | 16 | -6 | -17 | 5  | 12 | 15 | 10 | -1 | 10 | 22 | 28 | 28                                   | 28 | 28        | 28 | 9    |  |  |
| 26       |        | 26        | 21 | 21  | 21 | 21 | 21  | 20  | 19 | 21 | 21 | 20 | 17  | 16 | 17 | 15 | 10 | 6  | 5  | 5  | 11 | 15                                   | 26 | 26        | 28 | 18   |  |  |
| 27       |        | 25        | 21 | 20  | 20 | 20 | 18  | 16  | 19 | 20 | 21 | 20 | 15  | 13 | 11 | 10 | 9  | 9  | 14 | 15 | 16 | 20                                   | 19 | 19        | 15 | 17   |  |  |
| 28       |        | 15        | 14 | 16  | 17 | 19 | 19  | 19  | 17 | 19 | 21 | 20 | 22  | 19 | 19 | 17 | 13 | 13 | 14 | 18 | 19 | 24                                   | 17 | 20        | 29 | 18   |  |  |
| 29       |        | 25        | 23 | 19  | 20 | 21 | 21  | 20  | 20 | 20 | 24 | 25 | 25  | 25 | 23 | 20 | 15 | 13 | 12 | 14 | 15 | 15                                   | 20 | 24        | 25 | 20   |  |  |
| 30       |        | 20        | 20 | 20  | 13 | 19 | 21  | 18  | 18 | 19 | 23 | 24 | 21  | 19 | 17 | 8  | -0 | 1  | 7  | 7  | 12 | 18                                   | 28 | 28        | 34 | 17   |  |  |
| MEAN ALL |        | 33        | 30 | 27  | 26 | 25 | 24  | 23  | 24 | 25 | 27 | 27 | 24  | 24 | 22 | 20 | 17 | 16 | 17 | 20 | 25 | 29                                   | 31 | 33        | 34 | 25   |  |  |
| MEAN Q   |        | 29        | 28 | 27  | 26 | 26 | 26  | 25  | 25 | 26 | 29 | 30 | 29  | 29 | 29 | 27 | 23 | 19 | 18 | 20 | 24 | 28                                   | 28 | 29        | 30 | 26   |  |  |
| MEAN U   |        | 49        | 39 | 27  | 26 | 24 | 18  | 17  | 24 | 28 | 30 | 22 | 13  | 16 | 15 | 14 | 13 | 15 | 18 | 26 | 37 | 42                                   | 44 | 45        | 41 | 27   |  |  |

HORIZONTAL INTENSITY

| TABLE 19 |        | AGINCOURT |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | H = 15500 + TABULAR VALUES IN GAMMAS |     | JULY 1966 |     |      |
|----------|--------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------------|-----|-----------|-----|------|
| DAY      | HOURLY | 0         | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20                                   | 21  | 22        | 23  | MEAN |
|          | UT     | T0        | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0                                   | T0  | T0        | T0  |      |
|          |        | 1         | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21                                   | 22  | 23        | 24  |      |
| 1        |        | 657       | 657 | 654 | 662 | 671 | 668 | 659 | 662 | 658 | 652 | 658 | 658 | 658 | 651 | 644 | 641 | 652 | 664 | 668 | 672 | 686                                  | 681 | 682       | 675 | 662  |
| 2        |        | 671       | 665 | 665 | 663 | 663 | 663 | 663 | 663 | 663 | 662 | 668 | 668 | 658 | 642 | 624 | 618 | 628 | 639 | 652 | 663 | 675                                  | 629 | 686       | 667 | 657  |
| 3        |        | 663       | 668 | 668 | 670 | 670 | 653 | 658 | 660 | 663 | 664 | 663 | 659 | 662 | 657 | 648 | 645 | 652 | 664 | 680 | 691 | 681                                  | 681 | 675       | 670 | 665  |
| 4        |        | 670       | 672 | 668 | 667 | 664 | 664 | 662 | 662 | 661 | 662 | 658 | 662 | 652 | 652 | 644 | 635 | 625 | 629 | 645 | 670 | 686                                  | 682 | 686       | 656 | 660  |
| 5        |        | 658       | 657 | 662 | 664 | 675 | 665 | 663 | 663 | 668 | 668 | 668 | 664 | 663 | 652 | 641 | 635 | 635 | 645 | 666 | 676 | 685                                  | 680 | 680       | 673 | 663  |
| 6        |        | 668       | 667 | 668 | 668 | 670 | 668 | 670 | 669 | 665 | 668 | 668 | 663 | 657 | 652 | 643 | 647 | 648 | 664 | 670 | 675 | 670                                  | 670 | 675       | 674 | 665  |
| 7        | Q      | 676       | 681 | 669 | 668 | 668 | 665 | 668 | 667 | 669 | 669 | 668 | 665 | 659 | 648 | 643 | 642 | 654 | 665 | 673 | 665 | 677                                  | 698 | 686       | 686 | 668  |
| 8        | U      | 688       | 687 | 687 | 697 | 693 | 690 | 669 | 670 | 646 | 632 | 654 | 659 | 660 | 654 | 648 | 636 | 643 | 659 | 687 | 682 | 716                                  | 737 | 732       | 714 | 677  |
| 9        | D      | 692       | 667 | 630 | 595 | 514 | 466 | 403 | 493 | 554 | 587 | 632 | 597 | 617 | 630 | 610 | 591 | 598 | 618 | 644 | 645 | 654                                  | 662 | 665       | 677 | 602  |
| 10       | D      | 661       | 648 | 646 | 652 | 647 | 628 | 570 | 548 | 635 | 642 | 609 | 598 | 637 | 630 | 618 | 622 | 626 | 630 | 632 | 643 | 659                                  | 663 | 670       | 670 | 633  |
| 11       |        | 664       | 659 | 656 | 648 | 647 | 654 | 641 | 654 | 652 | 648 | 649 | 642 | 635 | 636 | 636 | 641 | 650 | 668 | 677 | 687 | 692                                  | 690 | 693       | 685 | 658  |
| 12       | D      | 673       | 647 | 652 | 658 | 659 | 630 | 614 | 618 | 610 | 585 | 626 | 636 | 621 | 621 | 630 | 626 | 630 | 637 | 652 | 661 | 665                                  | 661 | 660       | 660 | 638  |
| 13       | Q      | 660       | 664 | 660 | 655 | 658 | 658 | 658 | 659 | 658 | 659 | 659 | 654 | 645 | 636 | 626 | 620 | 636 | 650 | 665 | 677 | 681                                  | 671 | 664       | 663 | 656  |
| 14       | U      | 667       | 666 | 668 | 668 | 670 | 667 | 666 | 666 | 661 | 665 | 670 | 672 | 665 | 659 | 653 | 644 | 644 | 655 | 667 | 670 | 678                                  | 681 | 677       | 676 | 666  |
| 15       |        | 672       | 672 | 676 | 676 | 670 | 670 | 669 | 666 | 665 | 665 | 666 | 665 | 663 | 660 | 647 | 650 | 676 | 700 | 715 | 723 | 706                                  | 672 | 693       | 679 | 676  |
| 16       |        | 682       | 677 | 676 | 675 | 671 | 671 | 670 | 672 | 670 | 667 | 667 | 666 | 661 | 650 | 647 | 655 | 665 | 678 | 686 | 681 | 688                                  | 682 | 683       | 679 | 672  |
| 17       |        | 660       | 665 | 676 | 663 | 663 | 661 | 665 | 667 | 655 | 659 | 668 | 667 | 654 | 637 | 625 | 615 | 620 | 644 | 667 | 688 | 699                                  | 670 | 677       | 667 | 660  |
| 18       | Q      | 669       | 669 | 670 | 671 | 670 | 670 | 660 | 665 | 660 | 665 | 665 | 664 | 654 | 642 | 632 | 631 | 640 | 656 | 681 | 678 | 685                                  | 683 | 681       | 675 | 664  |
| 19       |        | 674       | 671 | 672 | 672 | 674 | 666 | 671 | 666 | 667 | 669 | 671 | 670 | 660 | 647 | 627 | 612 | 623 | 636 | 657 | 614 | 670                                  | 672 | 671       | 672 | 658  |
| 20       |        | 670       | 671 | 671 | 673 | 678 | 676 | 677 | 673 | 678 | 676 | 673 | 671 | 660 | 645 | 632 | 627 | 633 | 644 | 658 | 672 | 668                                  | 683 | 683       | 684 | 666  |
| 21       | U      | 683       | 677 | 672 | 654 | 650 | 677 | 671 | 667 | 667 | 667 | 668 | 669 | 651 | 633 | 629 | 632 | 622 | 639 | 679 | 684 | 666                                  | 684 | 688       | 684 | 663  |
| 22       |        | 683       | 657 | 640 | 655 | 660 | 661 | 655 | 654 | 650 | 650 | 652 | 651 | 654 | 645 | 637 | 628 | 634 | 648 | 663 | 682 | 685                                  | 688 | 684       | 673 | 658  |
| 23       |        | 672       | 666 | 661 | 670 | 667 | 661 | 660 | 660 | 655 | 656 | 656 | 660 | 656 | 649 | 632 | 623 | 632 | 665 | 678 | 684 | 683                                  | 679 | 677       | 673 | 661  |
| 24       |        | 671       | 665 | 661 | 678 | 666 | 661 | 661 | 662 | 661 | 659 | 657 | 656 | 656 | 661 | 652 | 655 | 655 | 656 | 660 | 667 | 671                                  | 676 | 672       | 669 | 663  |
| 25       | Q      | 666       | 667 | 673 | 672 | 670 | 671 | 667 | 666 | 666 | 671 | 670 | 671 | 667 | 662 | 649 | 644 | 648 | 661 | 678 | 690 | 698                                  | 684 | 684       | 677 | 670  |
| 26       |        | 678       | 678 | 672 | 668 | 662 | 667 | 671 | 672 | 668 | 669 | 671 | 666 | 654 | 645 | 646 | 646 | 662 | 672 | 683 | 684 | 690                                  | 685 | 686       | 678 | 670  |
| 27       |        | 673       | 672 | 669 | 672 | 668 | 668 | 680 | 672 | 662 | 666 | 667 | 671 | 667 | 645 | 635 | 663 | 667 | 678 | 678 | 683 | 684                                  | 677 | 678       | 670 | 669  |
| 28       |        | 669       | 679 | 672 | 665 | 641 | 657 | 669 | 667 | 661 | 661 | 664 | 667 | 656 | 639 | 629 | 622 | 623 | 633 | 656 | 679 | 686                                  | 690 | 679       | 685 | 660  |
| 29       |        | 672       | 668 | 667 | 669 | 674 | 668 | 668 | 672 | 668 | 674 | 679 | 669 | 669 | 653 | 629 | 622 | 634 | 657 | 669 | 684 | 683                                  | 680 | 684       | 681 | 667  |
| 30       |        | 679       | 679 | 678 | 684 | 684 | 685 | 674 | 661 | 663 | 672 | 672 | 668 | 661 | 641 | 629 | 616 | 621 | 641 | 657 | 669 | 679                                  | 684 | 689       | 685 | 666  |
| 31       |        | 679       | 676 | 679 | 677 | 675 | 677 | 674 | 673 | 672 | 667 | 666 | 672 | 667 | 647 | 631 | 624 | 656 | 667 | 674 | 672 | 677                                  | 681 | 680       | 672 | 668  |
| MEAN ALL |        | 672       | 668 | 666 | 665 | 662 | 658 | 652 | 654 | 656 | 657 | 661 | 659 | 655 | 646 | 636 | 633 | 640 | 653 | 668 | 674 | 681                                  | 679 | 681       | 676 | 661  |
| MEAN Q   |        | 668       | 669 | 668 | 667 | 668 | 666 | 664 | 664 | 663 | 666 | 667 | 665 | 658 | 650 | 640 | 636 | 644 | 658 | 673 | 676 | 684                                  | 683 | 678       | 676 | 665  |
| MEAN D   |        | 679       | 665 | 658 | 651 | 633 | 618 | 586 | 599 | 622 | 622 | 638 | 632 | 640 | 633 | 625 | 622 | 623 | 635 | 656 | 661 | 671                                  | 682 | 683       | 681 | 642  |

AGINCOURT MAGNETIC OBSERVATORY 1966



## DECLINATION

| TABLE 20 |        | AGINCOURT |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES |      | JULY 1966 |      |      |
|----------|--------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------|-----------|------|------|
| DAY      | HOURLY | 0         | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22        | 23   | MEAN |
|          | UT     | T0        | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0        | T0   |      |
|          |        | 1         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23        | 24   |      |
| 1        |        | 30.6      | 32.6 | 33.7 | 33.9 | 34.7 | 35.9 | 31.5 | 33.6 | 31.3 | 28.4 | 27.0 | 25.1 | 23.3 | 23.3 | 26.4 | 30.4 | 34.0 | 37.7 | 30.2 | 42.0 | 39.3   | 38.0 | 34.8      | 31.9 | 32.1 |
| 2        |        | 31.9      | 32.8 | 33.6 | 33.7 | 32.7 | 33.6 | 33.1 | 34.6 | 31.6 | 30.4 | 27.4 | 25.6 | 24.7 | 26.1 | 29.4 | 33.8 | 38.3 | 42.3 | 42.9 | 41.9 | 40.0   | 36.9 | 33.5      | 32.7 | 33.5 |
| 3        |        | 31.6      | 32.5 | 32.7 | 32.5 | 30.6 | 30.8 | 32.6 | 31.9 | 31.4 | 30.1 | 29.3 | 28.1 | 26.1 | 25.3 | 27.1 | 31.4 | 35.9 | 39.9 | 40.6 | 39.3 | 38.9   | 36.7 | 34.3      | 32.9 | 32.6 |
| 4        |        | 33.6      | 33.8 | 34.1 | 34.7 | 32.9 | 32.8 | 33.0 | 31.8 | 30.7 | 29.6 | 25.2 | 20.8 | 19.2 | 21.9 | 23.1 | 26.5 | 35.8 | 37.0 | 41.5 | 39.5 | 38.9   | 36.9 | 32.6      | 30.7 | 31.5 |
| 5        |        | 30.6      | 32.6 | 31.7 | 30.7 | 30.6 | 32.6 | 32.6 | 33.9 | 32.9 | 30.6 | 28.3 | 26.4 | 25.6 | 26.3 | 30.2 | 34.8 | 40.2 | 41.4 | 39.1 | 38.2 | 36.0   | 36.0 | 34.9      | 33.9 | 32.9 |
| 6        |        | 33.1      | 32.6 | 31.7 | 32.6 | 32.8 | 32.7 | 34.9 | 32.7 | 31.6 | 30.9 | 29.7 | 28.4 | 26.3 | 26.7 | 28.7 | 32.9 | 36.0 | 37.0 | 37.7 | 38.1 | 37.9   | 36.0 | 34.7      | 33.6 | 32.9 |
| 7        | Q      | 31.3      | 31.5 | 32.5 | 33.7 | 32.9 | 32.7 | 32.7 | 32.1 | 31.8 | 31.4 | 29.5 | 28.3 | 28.4 | 28.5 | 29.4 | 31.7 | 35.2 | 36.7 | 35.7 | 35.7 | 36.0   | 34.8 | 33.4      | 33.8 | 32.5 |
| 8        | Q      | 34.5      | 34.9 | 32.7 | 30.5 | 29.4 | 30.7 | 31.5 | 27.1 | 26.2 | 34.0 | 28.5 | 27.1 | 27.2 | 29.3 | 29.7 | 31.5 | 37.9 | 42.4 | 44.4 | 42.4 | 40.1   | 41.3 | 37.0      | 34.9 | 33.6 |
| 9        | D      | 28.3      | 32.1 | 30.1 | 33.6 | 39.5 | 39.1 | 26.7 | 18.8 | 30.0 | 40.1 | 28.7 | 33.8 | 30.6 | 26.3 | 28.2 | 32.4 | 35.6 | 36.0 | 37.1 | 39.3 | 37.1   | 36.0 | 34.8      | 33.7 | 32.8 |
| 10       | D      | 30.9      | 30.9 | 33.3 | 31.3 | 35.3 | 29.6 | 32.6 | 34.6 | 24.5 | 27.7 | 31.9 | 41.1 | 33.9 | 25.5 | 27.3 | 28.5 | 30.8 | 34.0 | 37.2 | 39.3 | 39.2   | 38.6 | 35.6      | 34.3 | 32.8 |
| 11       |        | 34.0      | 32.8 | 30.6 | 30.4 | 35.2 | 31.1 | 35.0 | 32.7 | 32.6 | 31.8 | 31.8 | 30.9 | 30.6 | 30.8 | 31.9 | 34.3 | 35.9 | 37.8 | 39.1 | 38.0 | 37.0   | 35.9 | 34.8      | 34.0 | 33.7 |
| 12       | D      | 31.5      | 31.5 | 31.6 | 26.3 | 34.6 | 27.5 | 22.2 | 25.4 | 18.9 | 33.9 | 25.3 | 26.3 | 27.5 | 25.3 | 29.5 | 32.8 | 35.9 | 37.4 | 37.9 | 36.3 | 35.0   | 34.1 | 33.9      | 30.3 | 30.3 |
| 13       | Q      | 33.9      | 34.2 | 32.7 | 32.8 | 33.9 | 34.1 | 33.7 | 32.9 | 32.8 | 31.9 | 30.1 | 28.5 | 28.4 | 29.4 | 30.8 | 35.2 | 38.2 | 41.1 | 41.3 | 39.5 | 37.5   | 36.1 | 34.7      | 33.9 | 34.1 |
| 14       | Q      | 33.9      | 34.2 | 33.8 | 33.9 | 33.1 | 33.1 | 32.9 | 32.5 | 33.0 | 33.0 | 29.9 | 26.4 | 25.4 | 26.3 | 28.5 | 31.8 | 36.0 | 37.2 | 39.1 | 38.3 | 35.2   | 34.0 | 33.9      | 33.9 | 32.9 |
| 15       |        | 34.0      | 34.0 | 33.9 | 33.8 | 32.7 | 32.7 | 31.8 | 31.8 | 31.6 | 30.7 | 29.9 | 28.8 | 28.4 | 29.7 | 32.9 | 35.8 | 40.4 | 43.4 | 42.5 | 38.5 | 37.3   | 36.0 | 33.9      | 34.9 | 34.1 |
| 16       |        | 34.8      | 33.2 | 32.8 | 31.6 | 32.7 | 31.2 | 30.7 | 30.8 | 30.7 | 28.6 | 26.6 | 24.7 | 24.3 | 26.2 | 27.3 | 31.7 | 35.9 | 37.0 | 38.2 | 38.0 | 35.9   | 34.9 | 32.9      | 32.7 | 31.8 |
| 17       |        | 32.8      | 33.0 | 30.2 | 32.2 | 31.7 | 30.7 | 29.2 | 29.8 | 33.1 | 36.1 | 28.6 | 25.4 | 25.3 | 26.7 | 32.0 | 37.3 | 41.2 | 41.6 | 41.0 | 38.4 | 36.1   | 35.3 | 32.2      | 32.9 | 33.0 |
| 18       | Q      | 33.1      | 34.1 | 34.0 | 33.8 | 33.0 | 31.0 | 30.5 | 31.7 | 30.7 | 30.0 | 29.6 | 27.5 | 25.3 | 25.1 | 28.5 | 33.9 | 38.5 | 40.4 | 40.5 | 40.3 | 38.4   | 36.1 | 34.9      | 34.0 | 33.1 |
| 19       |        | 33.1      | 32.9 | 32.9 | 32.9 | 31.7 | 30.9 | 31.9 | 33.8 | 36.1 | 31.6 | 29.3 | 26.4 | 24.2 | 24.4 | 27.4 | 31.7 | 37.9 | 40.5 | 40.2 | 39.1 | 38.4   | 36.0 | 33.8      | 32.5 | 32.9 |
| 20       |        | 31.9      | 32.0 | 33.0 | 33.1 | 33.0 | 30.7 | 29.5 | 31.7 | 32.4 | 30.5 | 29.4 | 27.3 | 26.2 | 25.7 | 27.3 | 29.6 | 33.8 | 37.9 | 40.6 | 40.3 | 39.2   | 36.0 | 34.4      | 30.8 | 32.3 |
| 21       | D      | 31.9      | 30.5 | 23.8 | 26.2 | 24.3 | 29.6 | 31.9 | 30.3 | 34.8 | 31.4 | 28.4 | 26.4 | 23.3 | 24.3 | 29.7 | 30.7 | 34.9 | 41.7 | 43.8 | 46.4 | 44.9   | 40.5 | 34.9      | 33.8 | 32.4 |
| 22       |        | 27.5      | 27.9 | 31.9 | 34.0 | 34.2 | 33.9 | 33.9 | 34.3 | 33.9 | 32.6 | 29.9 | 27.5 | 26.2 | 25.3 | 27.4 | 30.7 | 35.3 | 39.4 | 40.5 | 39.4 | 38.7   | 37.3 | 35.3      | 34.0 | 32.9 |
| 23       |        | 33.6      | 34.9 | 34.8 | 34.1 | 35.0 | 33.9 | 34.1 | 33.9 | 33.1 | 33.6 | 29.6 | 27.7 | 26.4 | 25.5 | 26.7 | 30.7 | 33.3 | 37.2 | 39.4 | 40.6 | 39.4   | 37.2 | 35.1      | 34.1 | 33.5 |
| 24       |        | 34.1      | 32.8 | 33.9 | 32.5 | 32.6 | 34.0 | 34.0 | 33.1 | 33.3 | 31.7 | 29.6 | 27.4 | 27.5 | 26.7 | 27.7 | 31.3 | 34.8 | 36.6 | 38.3 | 38.5 | 38.1   | 37.2 | 35.1      | 34.0 | 33.1 |
| 25       | Q      | 33.8      | 33.9 | 33.0 | 32.2 | 33.9 | 33.0 | 33.0 | 32.9 | 33.0 | 31.8 | 30.9 | 29.9 | 29.7 | 28.8 | 29.7 | 32.8 | 35.1 | 36.9 | 37.3 | 38.3 | 37.2   | 36.3 | 35.1      | 34.2 | 33.4 |
| 26       |        | 34.0      | 32.9 | 31.2 | 31.7 | 30.9 | 32.0 | 33.0 | 33.1 | 31.8 | 34.1 | 30.0 | 27.7 | 26.5 | 27.5 | 29.7 | 33.8 | 36.1 | 39.3 | 40.3 | 39.2 | 38.3   | 36.2 | 35.6      | 34.3 | 33.3 |
| 27       |        | 33.1      | 34.5 | 35.0 | 34.1 | 33.9 | 31.7 | 30.6 | 27.9 | 27.8 | 29.7 | 26.4 | 21.4 | 20.2 | 19.4 | 28.8 | 37.2 | 37.7 | 40.5 | 40.2 | 38.5 | 37.2   | 36.0 | 34.2      | 34.1 | 32.1 |
| 28       |        | 34.2      | 34.1 | 30.8 | 25.4 | 26.4 | 29.9 | 37.7 | 33.9 | 32.0 | 35.2 | 33.1 | 26.9 | 24.5 | 25.9 | 28.6 | 31.9 | 35.4 | 38.1 | 40.4 | 39.4 | 38.6   | 36.2 | 33.2      | 31.0 | 32.6 |
| 29       |        | 30.0      | 26.9 | 29.9 | 32.8 | 31.9 | 33.0 | 33.9 | 33.0 | 32.4 | 30.5 | 29.6 | 28.5 | 26.7 | 27.8 | 30.1 | 34.1 | 36.2 | 39.2 | 41.2 | 40.4 | 37.6   | 37.3 | 36.1      | 35.0 | 33.1 |
| 30       |        | 34.2      | 34.2 | 34.2 | 34.0 | 33.0 | 31.0 | 32.9 | 33.0 | 39.5 | 31.9 | 28.9 | 26.6 | 24.4 | 24.5 | 27.5 | 32.9 | 37.6 | 40.6 | 42.5 | 42.1 | 40.3   | 36.4 | 34.0      | 32.9 | 33.7 |
| 31       |        | 33.0      | 34.2 | 31.9 | 32.8 | 33.4 | 33.6 | 33.0 | 31.9 | 34.3 | 28.9 | 25.5 | 24.4 | 24.2 | 23.7 | 27.5 | 33.0 | 38.4 | 40.4 | 41.7 | 41.5 | 39.3   | 37.2 | 34.1      | 32.0 | 32.9 |
| MEAN ALL |        | 32.5      | 32.7 | 32.3 | 32.2 | 32.7 | 32.2 | 32.2 | 31.7 | 31.6 | 31.7 | 29.0 | 27.5 | 26.1 | 26.1 | 28.6 | 32.4 | 36.3 | 38.9 | 39.7 | 39.6 | 38.2   | 36.6 | 34.5      | 33.4 | 32.9 |
| MEAN Q   |        | 33.2      | 33.6 | 33.2 | 33.2 | 33.4 | 32.8 | 32.6 | 32.4 | 32.3 | 31.6 | 30.0 | 28.1 | 27.4 | 27.6 | 29.4 | 33.1 | 36.6 | 38.4 | 38.8 | 38.4 | 36.8   | 35.5 | 34.4      | 33.9 | 33.2 |
| MEAN D   |        | 31.4      | 32.0 | 30.3 | 29.5 | 32.6 | 31.3 | 29.0 | 27.3 | 26.9 | 33.4 | 28.6 | 30.9 | 28.2 | 26.6 | 28.1 | 30.5 | 34.4 | 38.0 | 40.0 | 41.1 | 39.5   | 38.3 | 35.3      | 34.1 | 32.4 |

VERTICAL INTENSITY

| TABLE 21 |        | AGINCOURT |    |    |     |      |      |      |      |      |     |     |     |     |    |    |    |    |    |    |    | Z = 56000 + TABULAR VALUES IN GAMMAS |    | JULY 1966 |    |      |    |  |
|----------|--------|-----------|----|----|-----|------|------|------|------|------|-----|-----|-----|-----|----|----|----|----|----|----|----|--------------------------------------|----|-----------|----|------|----|--|
| DAY      | HOURLY | 0         | 1  | 2  | 3   | 4    | 5    | 6    | 7    | 8    | 9   | 10  | 11  | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20                                   | 21 | 22        | 23 | MEAN |    |  |
|          | UT     | T0        | T0 | T0 | T0  | T0   | T0   | T0   | T0   | T0   | T0  | T0  | T0  | T0  | T0 | T0 | T0 | T0 | T0 | T0 | T0 | T0                                   | T0 | T0        | T0 |      | T0 |  |
| 1        |        | 34        | 32 | 27 | 26  | 9    | -2   | 5    | 10   | 14   | 20  | 22  | 22  | 22  | 22 | 23 | 20 | 22 | 21 | 26 | 22 | 29                                   | 28 | 28        | 30 | 21   |    |  |
| 2        |        | 29        | 26 | 24 | 22  | 21   | 22   | 21   | 16   | 17   | 26  | 27  | 28  | 22  | 20 | 20 | 21 | 22 | 27 | 28 | 23 | 20                                   | 22 | 32        | 33 | 24   |    |  |
| 3        |        | 31        | 26 | 22 | 21  | 9    | 21   | 25   | 24   | 22   | 26  | 26  | 23  | 21  | 22 | 17 | 13 | 14 | 15 | 20 | 21 | 25                                   | 21 | 22        | 22 |      |    |  |
| 4        |        | 22        | 21 | 21 | 21  | 17   | 17   | 21   | 21   | 21   | 20  | 17  | 20  | 21  | 21 | 16 | 16 | 21 | 15 | 21 | 27 | 32                                   | 36 | 50        | 55 | 24   |    |  |
| 5        |        | 45        | 34 | 32 | 26  | 4    | 10   | 16   | 17   | 16   | 20  | 22  | 25  | 24  | 24 | 24 | 26 | 27 | 22 | 23 | 26 | 22                                   | 25 | 28        | 28 | 24   |    |  |
| 6        |        | 26        | 27 | 26 | 26  | 23   | 21   | 17   | 17   | 21   | 22  | 24  | 22  | 21  | 17 | 21 | 21 | 14 | 16 | 21 | 26 | 26                                   | 25 | 26        | 22 | 22   |    |  |
| 7        | 0      | 26        | 26 | 22 | 23  | 24   | 24   | 22   | 22   | 24   | 26  | 26  | 29  | 29  | 27 | 28 | 33 | 33 | 32 | 26 | 28 | 27                                   | 21 | 21        | 26 | 26   |    |  |
| 8        | 0      | 25        | 27 | 28 | 21  | 21   | 18   | -27  | -51  | -29  | -51 | -13 | -1  | 12  | 15 | 14 | 16 | 26 | 28 | 38 | 33 | 43                                   | 61 | 79        | 85 | 17   |    |  |
| 9        | 0      | 107       | 77 | 39 | -40 | -191 | -159 | -224 | -182 | -110 | -44 | 24  | 5   | 16  | 29 | 30 | 29 | 43 | 44 | 52 | 49 | 44                                   | 39 | 42        | 48 | -10  |    |  |
| 10       | 0      | 66        | 61 | 50 | 27  | -53  | -75  | -129 | -129 | -23  | 21  | -19 | -77 | -19 | 12 | 16 | 27 | 26 | 27 | 22 | 33 | 38                                   | 39 | 44        | 40 | 1    |    |  |
| 11       |        | 36        | 38 | 33 | 33  | 19   | 17   | 8    | 21   | 29   | 32  | 33  | 33  | 34  | 34 | 33 | 28 | 26 | 28 | 34 | 38 | 38                                   | 39 | 50        | 31 |      |    |  |
| 12       | 0      | 61        | 48 | 49 | 32  | -17  | -4   | 9    | 7    | -29  | -70 | -29 | -15 | -3  | 4  | 11 | 21 | 27 | 33 | 33 | 32 | 33                                   | 33 | 33        | 14 |      |    |  |
| 13       | 0      | 32        | 33 | 33 | 33  | 33   | 32   | 31   | 31   | 31   | 31  | 28  | 29  | 31  | 27 | 27 | 26 | 25 | 23 | 25 | 26 | 27                                   | 31 | 31        | 29 |      |    |  |
| 14       | 0      | 30        | 28 | 31 | 31  | 27   | 27   | 27   | 26   | 27   | 31  | 31  | 32  | 32  | 33 | 31 | 25 | 24 | 25 | 31 | 28 | 25                                   | 30 | 31        | 30 | 29   |    |  |
| 15       |        | 28        | 27 | 27 | 31  | 31   | 31   | 28   | 29   | 27   | 31  | 31  | 26  | 27  | 25 | 19 | 5  | 8  | 15 | 16 | 20 | 20                                   | 19 | 24        | 21 | 24   |    |  |
| 16       |        | 25        | 24 | 26 | 24  | 24   | 23   | 20   | 20   | 26   | 26  | 30  | 28  | 25  | 21 | 13 | 16 | 19 | 19 | 20 | 21 | 24                                   | 31 | 36        | 39 | 24   |    |  |
| 17       |        | 38        | 36 | 21 | -14 | 20   | 20   | 19   | 26   | 19   | 8   | 20  | 26  | 30  | 30 | 30 | 27 | 15 | 14 | 20 | 32 | 37                                   | 36 | 37        | 31 | 24   |    |  |
| 18       | 0      | 31        | 30 | 29 | 30  | 26   | 10   | 10   | 19   | 24   | 30  | 31  | 30  | 24  | 24 | 26 | 19 | 14 | 15 | 25 | 28 | 30                                   | 31 | 31        | 30 | 25   |    |  |
| 19       |        | 25        | 24 | 26 | 25  | 23   | 23   | 23   | 19   | 18   | 25  | 30  | 30  | 29  | 31 | 29 | 29 | 25 | 23 | 21 | 24 | 23                                   | 30 | 35        | 36 | 26   |    |  |
| 20       |        | 32        | 30 | 29 | 29  | 29   | 23   | 18   | 22   | 26   | 29  | 31  | 30  | 30  | 30 | 25 | 19 | 23 | 23 | 29 | 31 | 31                                   | 30 | 35        | 42 | 28   |    |  |
| 21       | 0      | 38        | 37 | 6  | 8   | 1    | 23   | 24   | 25   | 25   | 24  | 29  | 30  | 28  | 27 | 18 | 12 | 6  | 12 | 26 | 36 | 36                                   | 41 | 45        | 43 | 25   |    |  |
| 22       |        | 52        | 28 | 39 | 35  | 34   | 28   | 29   | 33   | 34   | 36  | 39  | 38  | 40  | 39 | 34 | 29 | 28 | 29 | 34 | 41 | 46                                   | 46 | 41        | 38 | 36   |    |  |
| 23       |        | 35        | 34 | 33 | 30  | 28   | 29   | 34   | 34   | 31   | 28  | 34  | 40  | 41  | 41 | 38 | 20 | 12 | 18 | 25 | 28 | 29                                   | 29 | 34        | 31 | 31   |    |  |
| 24       |        | 32        | 34 | 34 | 21  | 21   | 28   | 28   | 28   | 28   | 33  | 38  | 40  | 39  | 33 | 27 | 27 | 27 | 28 | 27 | 29 | 33                                   | 32 | 28        | 30 | 30   |    |  |
| 25       | 0      | 28        | 28 | 28 | 27  | 28   | 27   | 28   | 27   | 27   | 28  | 28  | 33  | 29  | 23 | 21 | 21 | 20 | 11 | 21 | 28 | 29                                   | 29 | 33        | 33 | 26   |    |  |
| 26       |        | 33        | 28 | 28 | 29  | 28   | 28   | 28   | 27   | 28   | 26  | 29  | 32  | 33  | 28 | 23 | 22 | 21 | 22 | 17 | 21 | 30                                   | 39 | 45        | 44 | 29   |    |  |
| 27       |        | 39        | 33 | 33 | 33  | 29   | 28   | 21   | 16   | 21   | 23  | 27  | 28  | 27  | 22 | 16 | 0  | 4  | 11 | 22 | 24 | 29                                   | 33 | 33        | 33 | 24   |    |  |
| 28       |        | 28        | 29 | 29 | 17  | 16   | 21   | -1   | -2   | 11   | 15  | 23  | 27  | 27  | 27 | 28 | 33 | 28 | 27 | 28 | 35 | 40                                   | 44 | 44        | 45 | 26   |    |  |
| 29       |        | 40        | 27 | 32 | 33  | 28   | 27   | 28   | 30   | 32   | 34  | 35  | 37  | 32  | 24 | 22 | 23 | 23 | 24 | 29 | 33 | 35                                   | 34 | 35        | 34 | 30   |    |  |
| 30       |        | 29        | 28 | 27 | 28  | 27   | 4    | 11   | 12   | -0   | 17  | 28  | 30  | 29  | 28 | 27 | 23 | 21 | 25 | 32 | 33 | 34                                   | 35 | 34        | 33 | 25   |    |  |
| 31       |        | 29        | 28 | 27 | 26  | 27   | 26   | 27   | 24   | 15   | 17  | 24  | 28  | 27  | 27 | 21 | 9  | 12 | 16 | 27 | 28 | 33                                   | 39 | 44        | 42 | 26   |    |  |
| MEAN ALL |        | 37        | 33 | 29 | 23  | 12   | 12   | 6    | 8    | 14   | 17  | 23  | 23  | 25  | 26 | 24 | 22 | 21 | 22 | 26 | 29 | 31                                   | 33 | 36        | 37 | 24   |    |  |
| MEAN 0   |        | 30        | 29 | 29 | 24  | 24   | 24   | 23   | 25   | 27   | 29  | 30  | 30  | 29  | 28 | 26 | 25 | 24 | 22 | 25 | 27 | 28                                   | 27 | 29        | 30 | 27   |    |  |
| MEAN U   |        | 59        | 50 | 34 | 10  | -48  | -39  | -69  | -66  | -33  | -24 | -2  | -11 | 7   | 17 | 18 | 21 | 26 | 29 | 34 | 36 | 39                                   | 43 | 49        | 50 | 9    |    |  |

AGINCOURT MAGNETIC OBSERVATORY 1966

## HORIZONTAL INTENSITY

TABLE 22 AGINCOURT H = 15500 + TABULAR VALUES IN GAMMAS AUGUST 1966

| DAY      | HOUR<br>UT | H = 15500 + TABULAR VALUES IN GAMMAS |        |        |        |        |        |        |        |        |         |          |          |          |          |          |          |          |          |          |          | MEAN |          |          |          |          |
|----------|------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|----------|----------|----------|----------|
|          |            | 0<br>1                               | 1<br>2 | 2<br>3 | 3<br>4 | 4<br>5 | 5<br>6 | 6<br>7 | 7<br>8 | 8<br>9 | 9<br>10 | 10<br>11 | 11<br>12 | 12<br>13 | 13<br>14 | 14<br>15 | 15<br>16 | 16<br>17 | 17<br>18 | 18<br>19 | 19<br>20 |      | 20<br>21 | 21<br>22 | 22<br>23 | 23<br>24 |
| 1        |            | 689                                  | 685    | 684    | 684    | 684    | 674    | 675    | 674    | 669    | 672     | 674      | 672      | 663      | 654      | 644      | 644      | 656      | 667      | 672      | 678      | 683  | 672      | 681      | 680      | 672      |
| 2        | U          | 672                                  | 674    | 672    | 673    | 674    | 673    | 672    | 672    | 672    | 669     | 668      | 667      | 666      | 657      | 646      | 639      | 651      | 668      | 679      | 684      | 684  | 678      | 675      | 681      | 669      |
| 3        |            | 689                                  | 686    | 688    | 689    | 689    | 690    | 672    | 674    | 679    | 674     | 674      | 674      | 663      | 638      | 623      | 641      | 661      | 657      | 656      | 667      | 667  | 669      | 674      | 667      |          |
| 4        |            | 669                                  | 671    | 674    | 675    | 670    | 672    | 672    | 674    | 673    | 663     | 668      | 656      | 633      | 629      | 627      | 650      | 651      | 653      | 661      | 677      | 682  | 674      | 689      | 685      | 665      |
| 5        |            | 667                                  | 667    | 669    | 670    | 674    | 672    | 672    | 669    | 667    | 671     | 674      | 663      | 662      | 662      | 651      | 628      | 647      | 664      | 667      | 669      | 674  | 683      | 666      | 672      | 666      |
| 6        |            | 672                                  | 672    | 667    | 657    | 656    | 655    | 663    | 652    | 662    | 664     | 662      | 667      | 657      | 651      | 637      | 636      | 644      | 666      | 675      | 683      | 678  | 669      | 672      | 684      | 663      |
| 7        |            | 672                                  | 675    | 657    | 661    | 672    | 668    | 668    | 667    | 667    | 662     | 662      | 667      | 667      | 661      | 650      | 638      | 644      | 651      | 663      | 672      | 681  | 678      | 680      | 674      | 665      |
| 8        |            | 677                                  | 673    | 675    | 674    | 674    | 672    | 672    | 674    | 678    | 672     | 668      | 672      | 669      | 656      | 646      | 640      | 642      | 651      | 669      | 684      | 674  | 685      | 689      | 684      | 669      |
| 9        |            | 672                                  | 663    | 673    | 676    | 676    | 674    | 674    | 677    | 673    | 669     | 670      | 669      | 668      | 666      | 657      | 644      | 633      | 641      | 662      | 676      | 673  | 685      | 666      | 674      | 667      |
| 10       |            | 667                                  | 675    | 667    | 668    | 674    | 668    | 672    | 675    | 677    | 672     | 669      | 663      | 667      | 639      | 636      | 638      | 646      | 663      | 679      | 677      | 679  | 679      | 677      | 672      | 667      |
| 11       |            | 678                                  | 679    | 677    | 684    | 666    | 659    | 667    | 657    | 668    | 683     | 679      | 669      | 662      | 659      | 639      | 644      | 633      | 652      | 656      | 669      | 677  | 689      | 672      | 662      | 666      |
| 12       |            | 653                                  | 646    | 661    | 656    | 666    | 694    | 672    | 662    | 646    | 658     | 667      | 661      | 652      | 657      | 639      | 634      | 639      | 652      | 669      | 678      | 675  | 669      | 678      | 660      | 667      |
| 13       |            | 678                                  | 672    | 656    | 662    | 674    | 679    | 672    | 667    | 662    | 663     | 668      | 667      | 657      | 641      | 629      | 634      | 650      | 662      | 684      | 691      | 691  | 689      | 684      | 680      | 667      |
| 14       |            | 667                                  | 657    | 657    | 651    | 656    | 656    | 651    | 644    | 646    | 656     | 658      | 666      | 657      | 645      | 628      | 627      | 626      | 640      | 661      | 680      | 688  | 690      | 684      | 678      | 657      |
| 15       |            | 673                                  | 672    | 672    | 673    | 674    | 674    | 679    | 679    | 678    | 671     | 663      | 668      | 662      | 645      | 632      | 628      | 633      | 644      | 667      | 684      | 689  | 686      | 685      | 664      | 667      |
| 16       | U          | 678                                  | 679    | 679    | 668    | 672    | 674    | 672    | 673    | 667    | 673     | 673      | 673      | 667      | 656      | 641      | 634      | 640      | 651      | 667      | 674      | 678  | 678      | 679      | 674      | 667      |
| 17       | U          | 673                                  | 677    | 676    | 674    | 673    | 674    | 674    | 674    | 673    | 673     | 672      | 672      | 661      | 640      | 628      | 624      | 634      | 652      | 669      | 679      | 680  | 685      | 684      | 679      | 667      |
| 18       |            | 679                                  | 679    | 679    | 679    | 679    | 679    | 680    | 688    | 689    | 679     | 674      | 673      | 678      | 662      | 638      | 639      | 644      | 651      | 663      | 662      | 666  | 688      | 689      | 686      | 672      |
| 19       | U          | 689                                  | 668    | 667    | 650    | 650    | 668    | 669    | 672    | 669    | 662     | 639      | 657      | 651      | 632      | 625      | 628      | 612      | 611      | 628      | 653      | 679  | 680      | 684      | 670      | 655      |
| 20       |            | 668                                  | 674    | 661    | 662    | 667    | 666    | 668    | 667    | 662    | 662     | 663      | 662      | 652      | 641      | 628      | 627      | 633      | 655      | 674      | 685      | 686  | 686      | 679      | 669      | 662      |
| 21       |            | 668                                  | 669    | 674    | 674    | 668    | 667    | 669    | 669    | 669    | 669     | 668      | 669      | 663      | 655      | 643      | 639      | 634      | 645      | 657      | 668      | 684  | 689      | 684      | 679      | 666      |
| 22       | U          | 678                                  | 674    | 674    | 674    | 673    | 672    | 672    | 672    | 672    | 672     | 671      | 662      | 646      | 633      | 629      | 633      | 650      | 672      | 679      | 690      | 702  | 678      | 696      | 669      | 669      |
| 23       | U          | 688                                  | 672    | 684    | 685    | 678    | 675    | 679    | 684    | 680    | 668     | 656      | 651      | 649      | 662      | 651      | 629      | 634      | 639      | 635      | 674      | 690  | 684      | 690      | 662      | 657      |
| 24       | U          | 664                                  | 658    | 663    | 664    | 672    | 673    | 668    | 668    | 669    | 670     | 667      | 657      | 662      | 658      | 641      | 639      | 643      | 649      | 673      | 680      | 681  | 675      | 675      | 668      | 664      |
| 25       |            | 673                                  | 673    | 674    | 668    | 673    | 673    | 673    | 670    | 668    | 668     | 663      | 661      | 656      | 650      | 641      | 634      | 644      | 662      | 668      | 680      | 680  | 680      | 685      | 673      | 666      |
| 26       |            | 673                                  | 672    | 668    | 670    | 673    | 673    | 674    | 672    | 663    | 664     | 664      | 667      | 662      | 657      | 651      | 650      | 653      | 667      | 680      | 697      | 691  | 684      | 675      | 675      | 670      |
| 27       |            | 677                                  | 673    | 675    | 675    | 680    | 672    | 670    | 674    | 667    | 663     | 670      | 669      | 658      | 645      | 630      | 635      | 651      | 668      | 686      | 685      | 680  | 666      | 664      | 664      | 667      |
| 28       | U          | 668                                  | 669    | 669    | 669    | 666    | 668    | 667    | 670    | 670    | 669     | 666      | 661      | 654      | 642      | 635      | 622      | 643      | 663      | 679      | 690      | 690  | 697      | 696      | 685      | 667      |
| 29       |            | 674                                  | 676    | 680    | 680    | 680    | 679    | 679    | 678    | 679    | 678     | 674      | 669      | 657      | 641      | 635      | 640      | 640      | 652      | 669      | 686      | 686  | 719      | 702      | 679      | 672      |
| 30       | U          | 668                                  | 648    | 639    | 603    | 640    | 641    | 641    | 641    | 652    | 653     | 653      | 648      | 659      | 643      | 641      | 660      | 663      | 669      | 641      | 737      | 837  | 892      | 877      | 753      | 683      |
| 31       | U          | 615                                  | 613    | 612    | 624    | 634    | 636    | 632    | 631    | 631    | 632     | 630      | 631      | 630      | 620      | 619      | 620      | 618      | 626      | 641      | 663      | 664  | 663      | 664      | 649      | 633      |
| MEAN ALL |            | 672                                  | 669    | 668    | 667    | 670    | 670    | 669    | 668    | 667    | 667     | 666      | 664      | 659      | 648      | 638      | 636      | 642      | 653      | 665      | 679      | 686  | 689      | 686      | 678      | 666      |
| MEAN U   |            | 674                                  | 675    | 674    | 672    | 672    | 672    | 671    | 672    | 671    | 671     | 670      | 669      | 662      | 648      | 636      | 630      | 641      | 657      | 673      | 681      | 684  | 688      | 682      | 683      | 668      |
| MEAN U   |            | 665                                  | 652    | 653    | 646    | 655    | 659    | 658    | 654    | 660    | 657     | 644      | 644      | 650      | 643      | 635      | 635      | 635      | 639      | 644      | 681      | 710  | 719      | 718      | 680      | 660      |

DECLINATION

TABLE 23 AGINCOURT

D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES

AUGUST 1966

| DAY      | HOUR<br>UT | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       | 19       | 20       | 21       | 22       | 23       | MEAN |
|----------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|          |            | T0<br>1 | T0<br>2 | T0<br>3 | T0<br>4 | T0<br>5 | T0<br>6 | T0<br>7 | T0<br>8 | T0<br>9 | T0<br>10 | T0<br>11 | T0<br>12 | T0<br>13 | T0<br>14 | T0<br>15 | T0<br>16 | T0<br>17 | T0<br>18 | T0<br>19 | T0<br>20 | T0<br>21 | T0<br>22 | T0<br>23 | T0<br>24 |      |
| 1        |            | 33.0    | 34.5    | 34.1    | 33.7    | 31.3    | 30.6    | 28.5    | 30.7    | 30.6    | 29.6     | 27.5     | 25.2     | 23.6     | 26.1     | 30.5     | 34.9     | 37.8     | 39.0     | 39.2     | 37.8     | 37.2     | 37.8     | 35.0     | 31.7     | 32.5 |
| 2        | Q          | 32.7    | 33.7    | 33.8    | 33.7    | 33.4    | 32.8    | 32.7    | 32.6    | 32.3    | 31.5     | 30.4     | 28.4     | 26.6     | 26.3     | 27.5     | 32.6     | 37.0     | 41.1     | 41.1     | 39.2     | 37.9     | 36.2     | 34.9     | 34.7     | 33.5 |
| 3        |            | 33.7    | 33.9    | 33.9    | 33.7    | 33.0    | 30.6    | 31.5    | 32.0    | 30.6    | 29.7     | 27.4     | 25.2     | 24.2     | 23.8     | 28.5     | 37.9     | 41.2     | 40.2     | 40.3     | 39.8     | 38.1     | 36.6     | 34.7     | 33.7     | 33.1 |
| 4        |            | 32.7    | 33.0    | 32.9    | 33.0    | 33.8    | 33.5    | 32.9    | 32.6    | 31.5    | 30.5     | 29.6     | 24.6     | 26.4     | 29.2     | 30.6     | 34.1     | 34.7     | 35.9     | 38.2     | 39.2     | 39.2     | 38.5     | 36.1     | 35.7     | 33.3 |
| 5        |            | 33.8    | 33.8    | 33.1    | 33.6    | 31.8    | 29.5    | 31.8    | 32.8    | 40.1    | 32.7     | 29.8     | 28.5     | 27.2     | 26.5     | 26.7     | 31.6     | 38.1     | 36.9     | 38.0     | 38.4     | 38.1     | 37.3     | 36.9     | 35.1     | 33.4 |
| 6        |            | 33.5    | 32.8    | 33.8    | 31.4    | 30.9    | 31.6    | 31.8    | 32.7    | 34.0    | 32.3     | 28.9     | 27.3     | 24.6     | 24.4     | 26.7     | 32.5     | 37.3     | 40.1     | 39.3     | 38.2     | 37.0     | 36.9     | 36.1     | 34.6     | 32.9 |
| 7        |            | 33.1    | 32.9    | 30.9    | 32.1    | 31.7    | 31.8    | 33.1    | 33.1    | 32.9    | 32.7     | 29.9     | 27.6     | 26.5     | 27.3     | 27.5     | 31.6     | 34.7     | 36.1     | 38.2     | 39.3     | 38.4     | 37.1     | 35.9     | 34.0     | 32.9 |
| 8        |            | 33.9    | 33.9    | 33.8    | 33.8    | 33.8    | 33.8    | 33.0    | 32.7    | 31.8    | 30.7     | 29.5     | 25.7     | 24.2     | 24.1     | 26.7     | 30.8     | 36.8     | 40.3     | 43.3     | 43.1     | 42.2     | 40.3     | 37.3     | 33.8     | 33.7 |
| 9        |            | 32.9    | 31.8    | 34.2    | 33.9    | 33.4    | 33.1    | 29.8    | 30.9    | 31.6    | 30.6     | 29.1     | 28.5     | 25.3     | 24.4     | 26.1     | 31.6     | 36.9     | 37.8     | 37.1     | 38.0     | 36.9     | 36.7     | 34.2     | 32.0     | 32.4 |
| 10       |            | 33.0    | 31.6    | 24.3    | 27.4    | 27.6    | 28.9    | 33.4    | 33.9    | 32.9    | 31.7     | 31.7     | 31.8     | 27.6     | 28.7     | 32.2     | 35.0     | 40.4     | 43.0     | 42.2     | 41.5     | 39.4     | 37.1     | 34.9     | 32.8     | 33.5 |
| 11       |            | 32.8    | 32.9    | 32.8    | 29.4    | 27.8    | 30.5    | 30.5    | 34.1    | 34.0    | 30.5     | 28.6     | 29.6     | 28.6     | 28.7     | 30.3     | 36.7     | 36.9     | 40.1     | 42.4     | 42.4     | 40.3     | 36.9     | 35.1     | 33.8     | 33.7 |
| 12       |            | 28.8    | 27.3    | 27.5    | 29.0    | 31.4    | 34.0    | 33.0    | 42.6    | 36.0    | 32.8     | 30.3     | 28.3     | 29.8     | 27.4     | 28.5     | 31.8     | 35.0     | 37.1     | 37.3     | 36.9     | 36.1     | 35.9     | 33.0     | 33.5     | 32.6 |
| 13       |            | 32.9    | 33.6    | 27.5    | 29.6    | 32.6    | 34.2    | 33.0    | 33.5    | 32.6    | 31.6     | 28.5     | 28.6     | 28.7     | 29.5     | 32.7     | 36.2     | 40.0     | 41.2     | 43.0     | 41.1     | 38.2     | 35.9     | 33.8     | 32.2     | 33.8 |
| 14       |            | 31.5    | 31.6    | 27.6    | 24.3    | 30.7    | 29.4    | 32.9    | 28.6    | 37.1    | 29.7     | 24.4     | 24.1     | 24.4     | 26.5     | 30.7     | 36.0     | 40.1     | 42.2     | 41.4     | 39.3     | 37.0     | 34.7     | 32.9     | 32.9     | 32.1 |
| 15       |            | 33.8    | 33.6    | 33.9    | 33.8    | 33.8    | 35.0    | 38.0    | 36.0    | 31.8    | 30.8     | 32.9     | 27.5     | 24.3     | 25.6     | 29.7     | 32.6     | 37.3     | 40.3     | 41.2     | 40.3     | 39.1     | 37.1     | 34.2     | 33.1     | 34.0 |
| 16       | Q          | 33.0    | 26.5    | 30.8    | 31.7    | 32.8    | 33.5    | 33.6    | 31.8    | 33.8    | 31.6     | 28.6     | 25.5     | 24.4     | 25.2     | 28.3     | 32.8     | 36.2     | 38.1     | 39.4     | 39.5     | 38.2     | 36.6     | 34.6     | 32.8     | 32.5 |
| 17       | Q          | 32.8    | 33.0    | 33.5    | 33.1    | 33.9    | 34.0    | 33.5    | 32.8    | 32.1    | 31.6     | 29.7     | 26.3     | 23.4     | 25.4     | 28.6     | 34.9     | 39.2     | 42.1     | 42.2     | 39.9     | 37.5     | 35.0     | 33.8     | 33.6     | 33.4 |
| 18       |            | 33.8    | 33.5    | 33.6    | 33.6    | 33.6    | 33.8    | 33.0    | 32.8    | 31.6    | 35.0     | 36.8     | 28.7     | 24.4     | 24.4     | 27.4     | 35.8     | 39.3     | 41.2     | 43.6     | 44.7     | 40.3     | 37.0     | 34.9     | 33.9     | 34.5 |
| 19       | D          | 33.4    | 34.7    | 30.9    | 26.4    | 29.4    | 30.6    | 32.6    | 31.5    | 30.8    | 32.6     | 39.1     | 34.0     | 30.4     | 19.9     | 23.1     | 26.4     | 34.8     | 41.0     | 44.1     | 43.3     | 40.0     | 38.0     | 36.6     | 35.0     | 33.3 |
| 20       |            | 34.7    | 33.8    | 30.6    | 33.7    | 33.5    | 33.2    | 33.9    | 32.9    | 32.7    | 31.3     | 30.6     | 28.6     | 27.2     | 26.3     | 29.2     | 33.5     | 38.1     | 42.0     | 42.5     | 41.2     | 39.2     | 37.9     | 36.0     | 33.7     | 34.0 |
| 21       |            | 33.8    | 34.6    | 32.9    | 32.5    | 32.7    | 33.7    | 32.7    | 33.7    | 33.3    | 31.7     | 29.7     | 28.2     | 26.6     | 27.3     | 28.6     | 33.8     | 37.0     | 41.1     | 43.3     | 43.2     | 40.1     | 37.9     | 35.5     | 34.6     | 34.1 |
| 22       | Q          | 33.9    | 34.8    | 34.6    | 34.4    | 33.9    | 33.8    | 33.3    | 32.6    | 32.6    | 31.7     | 30.5     | 27.4     | 25.4     | 26.2     | 29.1     | 33.8     | 38.0     | 41.2     | 40.3     | 39.3     | 36.9     | 35.9     | 34.7     | 34.9     | 33.7 |
| 23       | D          | 33.9    | 34.9    | 34.8    | 34.7    | 31.5    | 33.8    | 33.4    | 31.5    | 30.4    | 30.3     | 34.8     | 26.3     | 27.8     | 26.6     | 29.2     | 34.0     | 40.0     | 43.5     | 48.4     | 44.3     | 41.4     | 37.2     | 36.6     | 32.0     | 34.6 |
| 24       | U          | 34.0    | 22.3    | 33.7    | 34.7    | 34.8    | 34.5    | 33.4    | 31.6    | 31.5    | 30.5     | 27.5     | 26.2     | 27.4     | 23.2     | 27.7     | 34.7     | 40.0     | 42.3     | 41.3     | 39.9     | 38.1     | 35.4     | 34.7     | 33.8     | 33.1 |
| 25       |            | 33.7    | 30.5    | 31.5    | 33.9    | 34.9    | 34.1    | 33.8    | 32.9    | 32.7    | 34.6     | 30.5     | 28.4     | 27.6     | 26.4     | 28.6     | 33.9     | 38.3     | 40.1     | 39.9     | 38.1     | 37.2     | 34.8     | 35.1     | 35.8     | 33.6 |
| 26       |            | 34.9    | 32.6    | 28.8    | 29.6    | 34.8    | 36.1    | 34.7    | 32.8    | 31.5    | 30.8     | 29.6     | 28.6     | 27.3     | 26.4     | 29.5     | 33.9     | 38.0     | 39.5     | 41.0     | 40.1     | 37.9     | 35.9     | 34.2     | 34.7     | 33.5 |
| 27       |            | 34.8    | 33.7    | 33.7    | 33.8    | 32.9    | 33.2    | 36.0    | 33.3    | 32.9    | 34.8     | 30.7     | 27.3     | 25.9     | 27.4     | 31.6     | 36.9     | 41.1     | 43.5     | 43.2     | 40.3     | 38.2     | 33.7     | 33.7     | 32.5     | 34.4 |
| 28       | Q          | 32.9    | 33.1    | 32.9    | 32.7    | 32.5    | 33.2    | 32.3    | 33.1    | 32.8    | 32.7     | 33.1     | 32.8     | 33.2     | 33.2     | 32.7     | 31.7     | 37.9     | 42.0     | 42.5     | 41.1     | 38.1     | 35.9     | 34.0     | 33.9     | 34.6 |
| 29       |            | 34.0    | 34.7    | 34.1    | 33.9    | 33.8    | 39.0    | 32.9    | 32.7    | 32.6    | 31.9     | 30.6     | 28.6     | 24.5     | 22.1     | 26.3     | 33.7     | 40.0     | 45.4     | 44.6     | 43.0     | 41.1     | 39.1     | 37.9     | 36.2     | 34.7 |
| 30       | D          | 33.6    | 21.9    | 23.2    | 38.9    | 28.7    | 31.5    | 32.5    | 34.9    | 32.6    | 30.6     | 29.2     | 23.0     | 20.8     | 17.7     | 23.9     | 30.9     | 31.5     | 35.9     | 52.6     | 46.4     | 44.3     | 41.6     | 39.0     | 36.7     | 32.6 |
| 31       | U          | 34.9    | 39.0    | 35.7    | 33.4    | 31.4    | 31.9    | 33.8    | 33.7    | 32.8    | 32.5     | 30.7     | 28.4     | 26.9     | 26.3     | 30.3     | 34.8     | 38.1     | 41.0     | 43.1     | 43.0     | 40.5     | 37.9     | 35.8     | 35.1     | 34.8 |
| MEAN ALL |            | 33.5    | 32.4    | 31.9    | 32.4    | 32.3    | 32.4    | 33.0    | 33.1    | 32.8    | 31.7     | 30.3     | 27.7     | 26.3     | 25.9     | 28.7     | 33.6     | 37.8     | 40.4     | 41.7     | 40.7     | 38.8     | 36.9     | 35.2     | 34.0     | 33.5 |
| MEAN Q   |            | 33.1    | 32.2    | 33.1    | 33.1    | 33.3    | 33.5    | 33.1    | 32.6    | 32.7    | 31.8     | 30.5     | 28.1     | 26.6     | 27.3     | 29.2     | 33.2     | 37.7     | 40.9     | 41.1     | 39.8     | 37.7     | 35.9     | 34.4     | 34.0     | 33.5 |
| MEAN U   |            | 34.7    | 30.6    | 31.6    | 33.6    | 31.2    | 32.4    | 33.1    | 32.7    | 31.6    | 31.3     | 32.3     | 27.6     | 26.7     | 22.7     | 26.8     | 32.2     | 36.9     | 40.7     | 45.9     | 43.4     | 40.9     | 38.0     | 36.5     | 34.5     | 33.7 |

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## VERTICAL INTENSITY

| TABLE 24 |      | AGINCOURT |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |    |    |    |    |     |     |     | Z = 56000 + TABULAR VALUES IN GAMMAS |      | AUGUST 1966 |  |  |  |  |
|----------|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|----|----|----|----|----|-----|-----|-----|--------------------------------------|------|-------------|--|--|--|--|
| DAY      | HOOR | 0         | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9  | 10  | 11  | 12  | 13  | 14 | 15 | 16 | 17 | 18 | 19 | 20  | 21  | 22  | 23                                   | MEAN |             |  |  |  |  |
|          | UT   | T0        | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0 | T0  | T0  | T0  | T0  | T0 | T0 | T0 | T0 | T0 | T0 | T0  | T0  | T0  | T0                                   |      |             |  |  |  |  |
|          |      | 1         | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10 | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18 | 19 | 20 | 21  | 22  | 23  | 24                                   |      |             |  |  |  |  |
| 1        |      | 34        | 27  | 27  | 21  | -1  | 6   | 6   | 16  | 20  | 26 | 26  | 23  | 22  | 21  | 15 | 6  | 0  | 9  | 17 | 20 | 22  | 22  | 27  | 31                                   | 18   |             |  |  |  |  |
| 2        | Q    | 25        | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 21 | 24  | 21  | 21  | 22  | 21 | 16 | 10 | 8  | 11 | 16 | 23  | 25  | 25  | 22                                   | 20   |             |  |  |  |  |
| 3        |      | 21        | 20  | 20  | 20  | 16  | -2  | 9   | 15  | 15  | 21 | 24  | 23  | 20  | 17  | 17 | 14 | 8  | 5  | 10 | 10 | 19  | 24  | 27  | 25                                   | 17   |             |  |  |  |  |
| 4        |      | 21        | 20  | 21  | 20  | 21  | 21  | 21  | 19  | 13  | 15 | 17  | 17  | 14  | 14  | 8  | 9  | 9  | 8  | 14 | 24 | 33  | 33  | 40  | 42                                   | 20   |             |  |  |  |  |
| 5        |      | 36        | 27  | 25  | 25  | 21  | 14  | 19  | 10  | -24 | 10 | 21  | 19  | 17  | 16  | 16 | 18 | 21 | 16 | 15 | 22 | 25  | 32  | 32  | 33                                   | 19   |             |  |  |  |  |
| 6        |      | 31        | 27  | 24  | 31  | 30  | 31  | 26  | 27  | 21  | 25 | 25  | 26  | 24  | 21  | 21 | 25 | 23 | 11 | 15 | 18 | 25  | 28  | 27  | 31                                   | 25   |             |  |  |  |  |
| 7        |      | 31        | 26  | 25  | 26  | 20  | 20  | 21  | 21  | 21  | 22 | 25  | 27  | 25  | 25  | 20 | 14 | 8  | 15 | 21 | 24 | 26  | 27  | 26  | 26                                   | 23   |             |  |  |  |  |
| 8        |      | 22        | 21  | 21  | 21  | 21  | 21  | 20  | 20  | 20  | 20 | 21  | 21  | 21  | 16  | 9  | 7  | 9  | 9  | 14 | 16 | 21  | 28  | 32  | 37                                   | 19   |             |  |  |  |  |
| 9        |      | 36        | 35  | 29  | 25  | 22  | 21  | 13  | 22  | 21  | 25 | 25  | 25  | 22  | 21  | 20 | 19 | 14 | 9  | 11 | 26 | 42  | 32  | 33  | 31                                   | 24   |             |  |  |  |  |
| 10       |      | 25        | 22  | 14  | 9   | 3   | 3   | 14  | 9   | 16  | 20 | 21  | 20  | 21  | 17  | 19 | 17 | 14 | 22 | 21 | 16 | 24  | 32  | 32  | 31                                   | 19   |             |  |  |  |  |
| 11       |      | 27        | 23  | 22  | 14  | -8  | -1  | -28 | -34 | -23 | 10 | 19  | 18  | 12  | 10  | 8  | 16 | 20 | 22 | 30 | 32 | 32  | 50  | 58  | 60                                   | 16   |             |  |  |  |  |
| 12       |      | 49        | 43  | 26  | 31  | 27  | -13 | 2   | -26 | -30 | 5  | 27  | 25  | 24  | 24  | 20 | 19 | 21 | 25 | 28 | 31 | 32  | 36  | 37  | 32                                   | 21   |             |  |  |  |  |
| 13       |      | 31        | 27  | 25  | 25  | 20  | 0   | 12  | 16  | 20  | 25 | 27  | 26  | 22  | 25  | 21 | 16 | 19 | 21 | 27 | 32 | 33  | 27  | 27  | 31                                   | 23   |             |  |  |  |  |
| 14       |      | 31        | 32  | 27  | 17  | -5  | -11 | -13 | -8  | -0  | 3  | 20  | 27  | 27  | 25  | 25 | 28 | 32 | 32 | 32 | 39 | 39  | 36  | 33  | 27                                   | 20   |             |  |  |  |  |
| 15       |      | 26        | 25  | 25  | 25  | 26  | 22  | 6   | 3   | 11  | 22 | 26  | 25  | 25  | 26  | 25 | 25 | 27 | 28 | 32 | 33 | 32  | 25  | 26  | 27                                   | 24   |             |  |  |  |  |
| 16       | Q    | 25        | 21  | 16  | 21  | 21  | 21  | 16  | 14  | 19  | 21 | 26  | 26  | 23  | 21  | 19 | 15 | 15 | 14 | 16 | 21 | 25  | 27  | 27  | 26                                   | 21   |             |  |  |  |  |
| 17       | Q    | 21        | 21  | 22  | 21  | 21  | 21  | 21  | 21  | 21  | 21 | 25  | 23  | 21  | 17  | 9  | 10 | 15 | 15 | 20 | 27 | 25  | 25  | 25  | 22                                   | 20   |             |  |  |  |  |
| 18       |      | 21        | 21  | 21  | 20  | 21  | 20  | 20  | 20  | 20  | 16 | -1  | -4  | -8  | -2  | -0 | 8  | 9  | 15 | 31 | 36 | 33  | 36  | 32  | 26                                   | 17   |             |  |  |  |  |
| 19       | U    | 26        | 27  | 32  | 21  | -17 | 1   | 27  | 27  | 26  | 20 | -17 | 11  | -25 | 8   | 15 | 16 | 14 | 22 | 32 | 30 | 27  | 31  | 32  | 32                                   | 17   |             |  |  |  |  |
| 20       |      | 26        | 29  | 30  | 26  | 25  | 24  | 21  | 2   | 9   | 21 | 26  | 29  | 27  | 27  | 28 | 28 | 30 | 30 | 31 | 32 | 31  | 30  | 30  | 32                                   | 26   |             |  |  |  |  |
| 21       |      | 32        | 26  | 25  | 21  | 24  | 25  | 25  | 24  | 24  | 25 | 26  | 30  | 26  | 25  | 24 | 29 | 26 | 27 | 25 | 25 | 31  | 32  | 31  | 31                                   | 27   |             |  |  |  |  |
| 22       | Q    | 26        | 24  | 24  | 21  | 21  | 23  | 24  | 24  | 24  | 24 | 26  | 25  | 25  | 25  | 26 | 26 | 26 | 21 | 24 | 31 | 36  | 37  | 31  | 36                                   | 26   |             |  |  |  |  |
| 23       | U    | 37        | 32  | 26  | 29  | 35  | 33  | 30  | 26  | 21  | 14 | -6  | -8  | -7  | -3  | 4  | 11 | 19 | 21 | 31 | 35 | 52  | 54  | 52  | 60                                   | 25   |             |  |  |  |  |
| 24       | U    | 46        | 37  | 30  | 31  | 26  | 29  | 25  | 28  | 30  | 29 | 30  | 26  | 10  | 10  | 15 | 19 | 20 | 20 | 29 | 35 | 39  | 44  | 47  | 40                                   | 29   |             |  |  |  |  |
| 25       |      | 36        | 31  | 28  | 30  | 29  | 26  | 27  | 25  | 25  | 19 | 21  | 24  | 29  | 26  | 31 | 31 | 31 | 24 | 19 | 26 | 31  | 40  | 37  | 32                                   | 28   |             |  |  |  |  |
| 26       |      | 27        | 27  | 24  | 20  | 24  | 11  | 10  | 19  | 26  | 30 | 30  | 31  | 30  | 29  | 26 | 25 | 25 | 26 | 31 | 40 | 41  | 36  | 32  | 30                                   | 27   |             |  |  |  |  |
| 27       |      | 26        | 26  | 25  | 25  | 15  | 19  | 19  | 20  | 20  | 21 | 24  | 29  | 24  | 24  | 15 | 8  | 1  | 9  | 15 | 19 | 26  | 35  | 22  | 17                                   | 20   |             |  |  |  |  |
| 28       | Q    | 17        | 19  | 14  | 17  | 17  | 17  | 13  | 12  | 11  | 11 | 1   | -13 | -19 | -15 | -4 | 10 | 15 | 20 | 22 | 29 | 31  | 35  | 35  | 31                                   | 14   |             |  |  |  |  |
| 29       |      | 29        | 26  | 24  | 24  | 21  | 21  | 22  | 22  | 22  | 23 | 27  | 27  | 27  | 17  | 9  | 4  | 3  | 5  | 12 | 20 | 21  | 42  | 70  | 87                                   | 25   |             |  |  |  |  |
| 30       | U    | 113       | 127 | -32 | -71 | 19  | 33  | 36  | 25  | 40  | 45 | 41  | 28  | 23  | 14  | 13 | 3  | -4 | 7  | 47 | 84 | 197 | 219 | 196 | 198                                  | 58   |             |  |  |  |  |
| 31       | U    | 111       | 56  | 52  | 41  | 41  | 30  | 41  | 41  | 40  | 40 | 40  | 36  | 30  | 25  | 24 | 23 | 20 | 24 | 23 | 23 | 29  | 26  | 30  | 30                                   | 36   |             |  |  |  |  |
| MEAN ALL |      | 34        | 30  | 23  | 20  | 19  | 16  | 17  | 15  | 16  | 21 | 21  | 21  | 18  | 18  | 17 | 17 | 16 | 17 | 23 | 28 | 35  | 39  | 39  | 39                                   | 23   |             |  |  |  |  |
| MEAN Q   |      | 23        | 21  | 20  | 20  | 20  | 20  | 19  | 18  | 19  | 20 | 20  | 16  | 14  | 14  | 14 | 15 | 16 | 16 | 19 | 25 | 28  | 30  | 29  | 27                                   | 20   |             |  |  |  |  |
| MEAN U   |      | 67        | 56  | 22  | 10  | 21  | 25  | 32  | 29  | 31  | 30 | 17  | 18  | 6   | 11  | 14 | 15 | 15 | 19 | 32 | 42 | 69  | 75  | 71  | 72                                   | 33   |             |  |  |  |  |

HORIZONTAL INTENSITY

| TABLE 25 |      | AGINCOURT |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | H = 15500 + TABULAR VALUES IN GAMMAS |     | SEPTEMBER 1966 |     |      |    |  |
|----------|------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------------|-----|----------------|-----|------|----|--|
| DAY      | MOON | 0         | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20                                   | 21  | 22             | 23  | MEAN |    |  |
|          | UT   | T0        | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0                                   | T0  | T0             | T0  |      | T0 |  |
|          |      | 1         | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21                                   | 22  | 23             | 24  |      |    |  |
| 1        | U    | 654       | 654 | 654 | 656 | 655 | 649 | 648 | 651 | 645 | 615 | 616 | 650 | 656 | 632 | 609 | 606 | 604 | 620 | 638 | 666 | 661                                  | 678 | 683            | 660 | 644  |    |  |
| 2        |      | 661       | 656 | 654 | 657 | 655 | 653 | 650 | 649 | 650 | 650 | 654 | 651 | 643 | 632 | 629 | 610 | 613 | 648 | 693 | 661 | 682                                  | 680 | 671            | 667 | 653  |    |  |
| 3        | U    | 668       | 674 | 674 | 678 | 672 | 666 | 664 | 662 | 627 | 556 | 501 | 601 | 618 | 629 | 569 | 530 | 552 | 588 | 656 | 787 | 883                                  | 998 | 927            | 746 | 672  |    |  |
| 4        | U    | 333       | -68 | 221 | 68  | 187 | 235 | 229 | 337 | 446 | 470 | 413 | 474 | 518 | 563 | 604 | 604 | 583 | 585 | 636 | 649 | 645                                  | 646 | 645            | 638 | 444  |    |  |
| 5        |      | 635       | 636 | 635 | 636 | 636 | 639 | 631 | 629 | 633 | 634 | 624 | 630 | 605 | 585 | 619 | 601 | 596 | 611 | 624 | 639 | 644                                  | 645 | 655            | 651 | 628  |    |  |
| 6        | U    | 652       | 662 | 640 | 668 | 618 | 602 | 633 | 656 | 634 | 583 | 579 | 632 | 644 | 617 | 608 | 601 | 624 | 627 | 633 | 644 | 646                                  | 650 | 655            | 657 | 632  |    |  |
| 7        |      | 665       | 655 | 650 | 650 | 651 | 633 | 650 | 660 | 656 | 653 | 656 | 646 | 629 | 618 | 613 | 602 | 606 | 628 | 640 | 645 | 650                                  | 651 | 661            | 661 | 643  |    |  |
| 8        | U    | 663       | 662 | 653 | 644 | 651 | 645 | 652 | 642 | 623 | 602 | 581 | 612 | 576 | 629 | 608 | 581 | 603 | 624 | 642 | 651 | 662                                  | 673 | 667            | 658 | 634  |    |  |
| 9        |      | 651       | 651 | 653 | 654 | 652 | 645 | 608 | 637 | 630 | 631 | 625 | 641 | 641 | 623 | 614 | 606 | 608 | 636 | 653 | 658 | 674                                  | 672 | 663            | 653 | 641  |    |  |
| 10       |      | 658       | 643 | 641 | 636 | 653 | 651 | 656 | 652 | 651 | 645 | 626 | 635 | 640 | 625 | 602 | 601 | 622 | 636 | 657 | 663 | 663                                  | 658 | 663            | 651 | 643  |    |  |
| 11       | U    | 661       | 663 | 663 | 667 | 664 | 662 | 669 | 662 | 659 | 663 | 658 | 657 | 647 | 634 | 619 | 622 | 635 | 652 | 664 | 669 | 663                                  | 663 | 658            | 658 | 656  |    |  |
| 12       | U    | 663       | 665 | 665 | 663 | 663 | 663 | 664 | 663 | 663 | 660 | 661 | 658 | 651 | 631 | 622 | 620 | 630 | 647 | 661 | 667 | 674                                  | 668 | 663            | 664 | 656  |    |  |
| 13       | U    | 667       | 664 | 658 | 659 | 657 | 660 | 658 | 661 | 663 | 664 | 664 | 661 | 652 | 636 | 623 | 630 | 647 | 663 | 669 | 673 | 670                                  | 669 | 667            | 666 | 658  |    |  |
| 14       |      | 669       | 674 | 674 | 671 | 672 | 669 | 668 | 665 | 668 | 669 | 672 | 668 | 656 | 636 | 628 | 636 | 647 | 662 | 681 | 677 | 686                                  | 692 | 675            | 687 | 667  |    |  |
| 15       |      | 657       | 663 | 669 | 674 | 661 | 658 | 660 | 657 | 647 | 646 | 652 | 650 | 645 | 630 | 612 | 602 | 608 | 623 | 642 | 661 | 652                                  | 647 | 657            | 645 | 647  |    |  |
| 16       |      | 647       | 660 | 663 | 667 | 666 | 663 | 663 | 663 | 663 | 662 | 661 | 657 | 648 | 635 | 619 | 608 | 613 | 622 | 648 | 663 | 663                                  | 674 | 674            | 668 | 653  |    |  |
| 17       |      | 663       | 671 | 668 | 652 | 662 | 663 | 665 | 662 | 663 | 663 | 663 | 658 | 641 | 616 | 599 | 603 | 619 | 635 | 655 | 667 | 674                                  | 675 | 673            | 669 | 653  |    |  |
| 18       | U    | 669       | 669 | 669 | 668 | 668 | 667 | 667 | 667 | 668 | 663 | 663 | 661 | 650 | 643 | 630 | 614 | 620 | 641 | 658 | 673 | 679                                  | 680 | 679            | 685 | 660  |    |  |
| 19       |      | 677       | 676 | 678 | 683 | 664 | 671 | 674 | 673 | 672 | 671 | 673 | 667 | 648 | 633 | 622 | 618 | 627 | 640 | 660 | 671 | 668                                  | 685 | 683            | 662 | 662  |    |  |
| 20       |      | 656       | 659 | 662 | 677 | 674 | 671 | 671 | 671 | 652 | 668 | 673 | 673 | 644 | 629 | 643 | 635 | 635 | 629 | 651 | 662 | 667                                  | 660 | 667            | 668 | 658  |    |  |
| 21       |      | 672       | 673 | 666 | 662 | 651 | 662 | 666 | 667 | 666 | 664 | 661 | 661 | 655 | 642 | 646 | 640 | 640 | 646 | 656 | 661 | 669                                  | 678 | 673            | 671 | 660  |    |  |
| 22       | U    | 671       | 673 | 671 | 671 | 671 | 671 | 662 | 662 | 663 | 663 | 662 | 662 | 659 | 651 | 645 | 640 | 645 | 657 | 662 | 673 | 667                                  | 666 | 668            | 673 | 663  |    |  |
| 23       |      | 673       | 674 | 673 | 671 | 666 | 667 | 668 | 668 | 669 | 690 | 684 | 673 | 666 | 655 | 663 | 662 | 673 | 667 | 677 | 666 | 669                                  | 662 | 667            | 667 | 660  |    |  |
| 24       |      | 668       | 671 | 673 | 673 | 673 | 671 | 674 | 678 | 673 | 671 | 668 | 659 | 651 | 646 | 638 | 644 | 652 | 659 | 670 | 678 | 676                                  | 674 | 673            | 678 | 666  |    |  |
| 25       |      | 668       | 673 | 675 | 661 | 671 | 659 | 649 | 662 | 661 | 661 | 662 | 656 | 645 | 634 | 628 | 634 | 650 | 660 | 666 | 673 | 681                                  | 673 | 666            | 677 | 660  |    |  |
| 26       |      | 672       | 658 | 671 | 662 | 661 | 661 | 662 | 666 | 667 | 644 | 667 | 671 | 661 | 643 | 629 | 616 | 630 | 652 | 658 | 668 | 672                                  | 678 | 667            | 666 | 658  |    |  |
| 27       |      | 677       | 677 | 667 | 665 | 655 | 660 | 656 | 667 | 661 | 662 | 674 | 666 | 661 | 654 | 643 | 639 | 648 | 666 | 667 | 670 | 672                                  | 681 | 676            | 672 | 664  |    |  |
| 28       |      | 667       | 673 | 678 | 683 | 622 | 650 | 659 | 660 | 661 | 659 | 659 | 659 | 650 | 634 | 618 | 639 | 645 | 655 | 661 | 663 | 666                                  | 677 | 665            | 663 | 657  |    |  |
| 29       |      | 662       | 672 | 667 | 659 | 660 | 660 | 655 | 644 | 651 | 653 | 661 | 656 | 649 | 639 | 634 | 633 | 639 | 637 | 650 | 661 | 666                                  | 669 | 669            | 672 | 655  |    |  |
| 30       |      | 669       | 667 | 670 | 672 | 673 | 673 | 645 | 648 | 634 | 660 | 665 | 660 | 642 | 633 | 628 | 621 | 634 | 651 | 658 | 667 | 681                                  | 665 | 660            | 667 | 656  |    |  |
| MEAN ALL |      | 652       | 640 | 648 | 643 | 643 | 643 | 642 | 648 | 647 | 643 | 639 | 647 | 640 | 631 | 622 | 617 | 624 | 639 | 656 | 668 | 674                                  | 680 | 675            | 667 | 647  |    |  |
| MEAN U   |      | 666       | 666 | 665 | 666 | 665 | 665 | 664 | 663 | 663 | 662 | 661 | 660 | 652 | 639 | 628 | 625 | 635 | 652 | 663 | 671 | 670                                  | 669 | 667            | 669 | 659  |    |  |
| MEAN D   |      | 594       | 517 | 568 | 543 | 557 | 559 | 565 | 589 | 595 | 565 | 538 | 594 | 602 | 614 | 599 | 584 | 593 | 609 | 641 | 680 | 699                                  | 729 | 716            | 672 | 605  |    |  |

AGINCOURT MAGNETIC OBSERVATORY 1966

## DECLINATION

| TABLE 26 |        | AGINCOURT |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES |      | SEPTEMBER 1966 |  |
|----------|--------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------|----------------|--|
| DAY      | HOURLY | 0         | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | MEAN |                |  |
|          | UT     | T0        | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   |      |                |  |
|          |        | 1         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   |      |                |  |
| 1        | U      | 36.0      | 36.1 | 34.0 | 33.2 | 34.7 | 39.2 | 41.6 | 34.1 | 33.1 | 34.8 | 37.6 | 28.9 | 25.6 | 28.8 | 33.9 | 38.3 | 44.5 | 45.6 | 44.7 | 43.5 | 44.0 | 41.4 | 34.8 | 35.4   | 36.8 |                |  |
| 2        |        | 35.9      | 31.0 | 34.0 | 36.0 | 35.9 | 35.1 | 34.8 | 34.1 | 33.3 | 31.3 | 29.8 | 27.7 | 25.6 | 26.5 | 29.8 | 34.9 | 43.4 | 46.1 | 44.2 | 44.7 | 40.4 | 37.4 | 36.1 | 36.0   | 35.2 |                |  |
| 3        | U      | 35.3      | 34.9 | 34.8 | 34.4 | 33.8 | 32.8 | 33.0 | 34.9 | 31.6 | 38.1 | 38.8 | 24.2 | 18.7 | 22.2 | 31.8 | 47.0 | 51.2 | 47.9 | 43.5 | 36.1 | 29.0 | 32.9 | 43.4 | 51.7   | 35.9 |                |  |
| 4        | U      | 62.5      | 75.5 | 45.5 | 81.4 | 34.0 | 44.0 | 41.5 | 45.2 | 37.7 | 45.7 | 52.2 | 43.4 | 36.4 | 34.6 | 32.9 | 37.2 | 40.4 | 44.8 | 42.4 | 40.6 | 38.0 | 36.2 | 34.8 | 34.9   | 44.2 |                |  |
| 5        |        | 34.0      | 34.6 | 34.4 | 35.8 | 35.8 | 35.9 | 35.9 | 35.2 | 34.0 | 31.9 | 31.5 | 28.4 | 29.4 | 37.1 | 33.0 | 33.5 | 40.3 | 42.4 | 40.5 | 39.9 | 19.1 | 37.2 | 36.3 | 35.8   | 35.5 |                |  |
| 6        | U      | 35.9      | 34.2 | 27.2 | 28.5 | 28.0 | 39.4 | 33.5 | 33.1 | 31.0 | 44.7 | 39.0 | 28.7 | 24.0 | 26.7 | 31.9 | 36.5 | 40.4 | 42.4 | 42.4 | 40.3 | 39.0 | 37.1 | 35.2 | 34.7   | 34.8 |                |  |
| 7        |        | 34.5      | 32.1 | 32.9 | 33.9 | 35.0 | 43.4 | 38.8 | 32.7 | 31.7 | 32.4 | 30.9 | 29.3 | 29.4 | 34.1 | 35.2 | 39.3 | 46.0 | 44.6 | 41.7 | 41.4 | 39.2 | 35.0 | 35.0 | 34.7   | 36.0 |                |  |
| 8        | U      | 34.9      | 34.6 | 31.7 | 23.2 | 29.6 | 35.2 | 42.4 | 34.2 | 28.4 | 36.3 | 47.8 | 33.7 | 41.6 | 35.3 | 36.3 | 44.1 | 47.9 | 47.8 | 44.8 | 42.2 | 39.2 | 31.6 | 34.1 | 25.5   | 36.8 |                |  |
| 9        |        | 31.7      | 34.7 | 31.4 | 33.0 | 38.0 | 37.2 | 44.7 | 41.1 | 38.0 | 33.0 | 33.7 | 30.8 | 29.1 | 30.9 | 37.0 | 38.3 | 43.5 | 42.4 | 41.6 | 39.1 | 37.2 | 32.2 | 32.8 | 29.6   | 35.9 |                |  |
| 10       |        | 22.7      | 29.1 | 26.6 | 33.8 | 36.2 | 33.8 | 34.8 | 33.0 | 31.4 | 29.6 | 37.0 | 31.3 | 27.1 | 28.5 | 33.9 | 38.9 | 44.0 | 44.5 | 41.3 | 39.0 | 35.9 | 34.0 | 32.8 | 30.8   | 33.8 |                |  |
| 11       | U      | 30.3      | 34.6 | 35.5 | 34.6 | 35.1 | 35.7 | 38.8 | 34.8 | 31.8 | 31.5 | 31.6 | 29.5 | 28.3 | 29.3 | 32.5 | 38.3 | 41.5 | 41.5 | 40.2 | 37.9 | 35.1 | 33.8 | 33.8 | 34.8   | 34.6 |                |  |
| 12       | U      | 35.2      | 35.1 | 34.9 | 34.8 | 34.7 | 34.1 | 33.7 | 34.6 | 32.8 | 30.6 | 30.3 | 28.4 | 28.4 | 29.8 | 32.7 | 37.7 | 42.1 | 43.3 | 41.5 | 39.0 | 36.2 | 34.0 | 33.4 | 34.0   | 34.6 |                |  |
| 13       | U      | 33.8      | 34.0 | 34.7 | 34.3 | 33.7 | 33.9 | 33.6 | 32.8 | 32.7 | 31.8 | 31.8 | 30.8 | 30.0 | 31.4 | 34.5 | 40.1 | 42.5 | 42.0 | 40.8 | 37.9 | 35.4 | 33.7 | 33.8 | 34.5   | 34.8 |                |  |
| 14       |        | 34.7      | 34.6 | 34.5 | 34.5 | 33.9 | 32.9 | 31.7 | 31.6 | 30.8 | 30.7 | 30.0 | 28.4 | 26.8 | 27.6 | 30.9 | 34.9 | 42.2 | 44.5 | 43.4 | 40.4 | 37.1 | 35.1 | 34.1 | 33.8   | 34.1 |                |  |
| 15       |        | 26.6      | 33.9 | 34.8 | 26.3 | 35.9 | 39.3 | 35.1 | 31.1 | 29.5 | 30.0 | 24.2 | 24.8 | 24.1 | 25.4 | 29.9 | 36.6 | 41.0 | 43.3 | 43.4 | 43.3 | 43.3 | 41.3 | 39.0 | 36.6   | 34.1 |                |  |
| 16       |        | 34.3      | 32.3 | 30.5 | 34.6 | 35.1 | 34.7 | 33.7 | 32.7 | 32.1 | 31.7 | 30.5 | 28.3 | 27.1 | 27.0 | 30.5 | 33.9 | 37.1 | 41.6 | 41.5 | 42.2 | 39.1 | 35.4 | 33.7 | 33.1   | 33.9 |                |  |
| 17       |        | 34.0      | 24.2 | 27.5 | 29.3 | 33.8 | 34.0 | 35.0 | 35.0 | 31.9 | 31.5 | 30.2 | 28.2 | 25.8 | 26.1 | 30.5 | 35.7 | 39.1 | 41.5 | 41.4 | 39.8 | 37.7 | 35.4 | 34.3 | 34.7   | 33.4 |                |  |
| 18       | U      | 34.5      | 33.7 | 33.7 | 33.8 | 33.9 | 33.9 | 33.9 | 33.7 | 32.8 | 31.7 | 29.9 | 27.6 | 26.2 | 27.3 | 30.2 | 34.4 | 37.8 | 40.1 | 40.4 | 39.3 | 37.1 | 35.6 | 34.7 | 34.6   | 33.8 |                |  |
| 19       |        | 34.7      | 34.7 | 33.9 | 33.9 | 35.0 | 34.6 | 32.8 | 30.5 | 29.7 | 29.3 | 28.5 | 27.1 | 24.9 | 26.3 | 30.7 | 34.8 | 37.2 | 39.3 | 39.1 | 39.0 | 38.0 | 34.8 | 33.3 | 31.6   | 33.1 |                |  |
| 20       |        | 29.6      | 32.5 | 31.5 | 34.4 | 34.1 | 32.6 | 32.4 | 31.9 | 35.9 | 31.7 | 28.3 | 26.4 | 32.8 | 36.7 | 38.2 | 34.3 | 35.8 | 38.2 | 39.6 | 38.8 | 38.3 | 36.9 | 35.1 | 30.7   | 34.0 |                |  |
| 21       |        | 32.5      | 34.7 | 32.6 | 29.3 | 33.6 | 33.9 | 33.8 | 32.8 | 31.7 | 32.5 | 32.6 | 30.2 | 29.4 | 30.2 | 29.6 | 32.5 | 35.0 | 37.8 | 38.7 | 38.7 | 37.1 | 36.1 | 35.1 | 34.5   | 33.5 |                |  |
| 22       | U      | 44.7      | 31.7 | 34.8 | 33.7 | 33.8 | 34.5 | 32.5 | 32.4 | 31.5 | 31.1 | 30.7 | 30.2 | 29.4 | 29.5 | 31.1 | 34.7 | 38.5 | 40.1 | 39.3 | 38.0 | 36.8 | 34.8 | 34.6 | 34.6   | 33.9 |                |  |
| 23       |        | 33.8      | 34.4 | 32.7 | 32.5 | 33.7 | 33.6 | 32.7 | 32.4 | 31.4 | 28.4 | 28.2 | 27.0 | 26.9 | 27.0 | 29.4 | 34.1 | 35.9 | 41.9 | 48.4 | 45.3 | 39.1 | 37.9 | 37.9 | 37.0   | 34.2 |                |  |
| 24       |        | 36.6      | 35.9 | 35.5 | 34.6 | 33.9 | 33.2 | 32.5 | 31.4 | 31.3 | 33.2 | 29.2 | 30.4 | 29.4 | 28.1 | 30.4 | 34.6 | 37.5 | 38.9 | 39.0 | 36.9 | 34.6 | 33.7 | 33.9 | 34.6   | 33.7 |                |  |
| 25       |        | 34.9      | 35.7 | 36.8 | 40.1 | 34.6 | 36.9 | 44.7 | 34.5 | 29.6 | 30.4 | 28.4 | 28.1 | 29.5 | 32.5 | 35.9 | 38.7 | 39.7 | 38.1 | 36.5 | 35.1 | 35.5 | 34.7 | 35.3 | 34.9   | 34.9 |                |  |
| 26       |        | 36.7      | 37.2 | 38.8 | 35.0 | 34.1 | 32.5 | 32.3 | 30.6 | 26.3 | 30.7 | 28.2 | 22.9 | 26.3 | 29.6 | 32.3 | 38.7 | 43.5 | 41.0 | 42.1 | 41.2 | 37.7 | 35.8 | 37.3 | 35.5   | 34.4 |                |  |
| 27       |        | 32.9      | 26.1 | 29.2 | 36.7 | 42.1 | 30.3 | 29.3 | 30.5 | 28.9 | 32.5 | 30.7 | 29.2 | 28.3 | 28.4 | 31.5 | 37.9 | 41.0 | 40.2 | 39.9 | 38.7 | 36.8 | 36.8 | 38.0 | 35.4   | 33.8 |                |  |
| 28       |        | 35.8      | 33.7 | 30.8 | 28.5 | 28.4 | 38.8 | 34.5 | 32.4 | 30.4 | 29.7 | 32.3 | 30.0 | 28.6 | 28.8 | 37.1 | 41.1 | 40.1 | 40.0 | 38.1 | 37.0 | 35.7 | 35.0 | 35.5 | 36.2   | 34.1 |                |  |
| 29       |        | 33.5      | 33.8 | 35.0 | 33.7 | 27.3 | 34.1 | 31.5 | 38.9 | 29.3 | 30.3 | 30.4 | 30.6 | 30.3 | 30.3 | 32.5 | 35.6 | 38.9 | 42.3 | 42.5 | 40.0 | 36.0 | 36.0 | 35.0 | 33.8   | 34.2 |                |  |
| 30       |        | 34.4      | 34.0 | 32.7 | 34.6 | 31.3 | 23.9 | 31.2 | 35.0 | 30.4 | 31.6 | 29.4 | 29.2 | 30.4 | 32.5 | 33.5 | 36.9 | 38.1 | 40.0 | 39.9 | 37.6 | 36.8 | 36.9 | 33.6 | 34.6   | 33.7 |                |  |
| MEAN ALL |        | 34.6      | 35.0 | 33.4 | 34.7 | 34.0 | 35.1 | 35.2 | 33.9 | 31.7 | 32.6 | 32.5 | 29.1 | 28.3 | 29.5 | 32.5 | 37.0 | 40.8 | 42.2 | 41.5 | 39.8 | 37.5 | 35.6 | 35.2 | 34.6   | 34.9 |                |  |
| MEAN U   |        | 33.7      | 33.8 | 34.7 | 34.2 | 34.2 | 34.4 | 34.5 | 33.7 | 32.3 | 31.4 | 30.9 | 29.3 | 28.5 | 29.5 | 32.2 | 37.0 | 40.5 | 41.4 | 40.4 | 38.4 | 36.1 | 34.4 | 34.1 | 34.5   | 34.3 |                |  |
| MEAN D   |        | 40.9      | 43.1 | 34.7 | 40.1 | 32.0 | 38.1 | 36.4 | 36.3 | 32.4 | 39.9 | 43.1 | 31.8 | 29.3 | 29.5 | 33.4 | 40.6 | 44.9 | 45.7 | 43.6 | 40.5 | 37.9 | 35.8 | 36.5 | 36.5   | 37.7 |                |  |

VERTICAL INTENSITY

| TABLE 27 |       | AGINCOURT |      |      |     |      |      |      |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |    | Z = 56000 + TABULAR VALUES IN GAMMAS |      | SEPTEMBER 1966 |  |  |  |  |  |  |  |  |  |
|----------|-------|-----------|------|------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|----|--------------------------------------|------|----------------|--|--|--|--|--|--|--|--|--|
| DAY      | HOURL | 0         | 1    | 2    | 3   | 4    | 5    | 6    | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14 | 15 | 16 | 17  | 18  | 19  | 20  | 21  | 22 | 23                                   | MEAN |                |  |  |  |  |  |  |  |  |  |
|          | UT    | 10        | 10   | 10   | 10  | 10   | 10   | 10   | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10 | 10 | 10 | 10  | 10  | 10  | 10  | 10  | 10 | 10                                   |      | 10             |  |  |  |  |  |  |  |  |  |
|          |       | 1         | 2    | 3    | 4   | 5    | 6    | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18  | 19  | 20  | 21  | 22  | 23 | 24                                   |      |                |  |  |  |  |  |  |  |  |  |
| 1        | U     | 34        | 34   | 33   | 27  | 28   | 22   | 0    | 6   | 0   | -28 | 26  | 8   | 21  | 22  | 26 | 22 | 25 | 33  | 50  | 80  | 78  | 74  | 75 | 43                                   | 31   |                |  |  |  |  |  |  |  |  |  |
| 2        |       | 44        | 49   | 44   | 38  | 33   | 33   | 33   | 33  | 36  | 34  | 37  | 34  | 29  | 23  | 21 | 22 | 23 | 9   | 16  | 26  | 32  | 28  | 26 | 27                                   | 31   |                |  |  |  |  |  |  |  |  |  |
| 3        | U     | 27        | 28   | 28   | 27  | 27   | 28   | 33   | 33  | 17  | -34 | -63 | -7  | 38  | 28  | 16 | 22 | 53 | 109 | 143 | 247 | 251 | 246 | 90 | 59                                   | 60   |                |  |  |  |  |  |  |  |  |  |
| 4        | U     | 90        | -151 | -289 | 204 | -180 | -180 | -264 | -97 | -90 | -40 | -67 | -51 | -6  | 8   | 34 | 51 | 10 | 82  | 82  | 74  | 71  | 78  | 72 | 65                                   | -21  |                |  |  |  |  |  |  |  |  |  |
| 5        |       | 60        | 60   | 61   | 60  | 56   | 46   | 49   | 50  | 49  | 49  | 47  | 44  | 37  | 38  | 34 | 44 | 46 | 37  | 38  | 48  | 51  | 54  | 50 | 46                                   | 48   |                |  |  |  |  |  |  |  |  |  |
| 6        | U     | 44        | 45   | 53   | -7  | -17  | -41  | -31  | 32  | 38  | -16 | -35 | 10  | 27  | 33  | 38 | 47 | 47 | 47  | 49  | 50  | 53  | 54  | 50 | 49                                   | 26   |                |  |  |  |  |  |  |  |  |  |
| 7        |       | 47        | 47   | 48   | 47  | 43   | 15   | 14   | 36  | 38  | 42  | 41  | 37  | 37  | 39  | 37 | 37 | 38 | 44  | 49  | 53  | 57  | 61  | 50 | 44                                   | 42   |                |  |  |  |  |  |  |  |  |  |
| 8        | U     | 43        | 41   | 39   | -1  | 15   | 14   | -37  | -44 | -51 | -37 | -85 | -75 | -30 | -17 | 9  | 21 | 32 | 49  | 59  | 61  | 66  | 77  | 60 | 61                                   | 11   |                |  |  |  |  |  |  |  |  |  |
| 9        |       | 49        | 49   | 43   | 47  | 25   | 5    | -47  | -51 | -26 | -6  | 5   | 4   | 16  | 26  | 31 | 42 | 49 | 54  | 44  | 44  | 46  | 54  | 49 | 53                                   | 25   |                |  |  |  |  |  |  |  |  |  |
| 10       |       | 36        | 39   | 36   | 18  | 3    | 20   | 25   | 37  | 43  | 35  | 30  | 20  | 25  | 26  | 26 | 37 | 43 | 48  | 53  | 48  | 45  | 46  | 48 | 49                                   | 35   |                |  |  |  |  |  |  |  |  |  |
| 11       | U     | 47        | 42   | 39   | 38  | 32   | 26   | 15   | 26  | 32  | 37  | 38  | 38  | 37  | 37  | 39 | 37 | 38 | 43  | 43  | 42  | 42  | 40  | 37 | 37                                   | 37   |                |  |  |  |  |  |  |  |  |  |
| 12       | U     | 37        | 36   | 36   | 35  | 36   | 36   | 35   | 31  | 27  | 32  | 37  | 39  | 32  | 27  | 29 | 33 | 38 | 43  | 45  | 48  | 48  | 44  | 42 | 39                                   | 37   |                |  |  |  |  |  |  |  |  |  |
| 13       | U     | 38        | 37   | 37   | 37  | 37   | 38   | 38   | 37  | 37  | 37  | 36  | 32  | 32  | 32  | 33 | 32 | 32 | 31  | 37  | 39  | 38  | 39  | 38 | 36                                   | 36   |                |  |  |  |  |  |  |  |  |  |
| 14       |       | 36        | 33   | 33   | 32  | 32   | 32   | 31   | 32  | 32  | 32  | 33  | 35  | 32  | 28  | 25 | 21 | 26 | 32  | 33  | 27  | 33  | 36  | 32 | 41                                   | 32   |                |  |  |  |  |  |  |  |  |  |
| 15       |       | 52        | 41   | 36   | 21  | 27   | 25   | 19   | 26  | 30  | 20  | 24  | 30  | 24  | 24  | 24 | 25 | 26 | 32  | 38  | 44  | 54  | 66  | 76 | 80                                   | 36   |                |  |  |  |  |  |  |  |  |  |
| 16       |       | 70        | 53   | 36   | 38  | 37   | 36   | 36   | 36  | 36  | 36  | 36  | 38  | 34  | 31  | 30 | 31 | 34 | 39  | 46  | 48  | 48  | 43  | 42 | 41                                   | 40   |                |  |  |  |  |  |  |  |  |  |
| 17       |       | 39        | 31   | 23   | 18  | 32   | 32   | 32   | 30  | 32  | 36  | 37  | 37  | 36  | 31  | 26 | 26 | 30 | 30  | 35  | 37  | 37  | 36  | 32 | 31                                   | 32   |                |  |  |  |  |  |  |  |  |  |
| 18       | U     | 32        | 31   | 31   | 31  | 31   | 31   | 31   | 31  | 30  | 29  | 30  | 32  | 31  | 29  | 21 | 19 | 20 | 26  | 35  | 38  | 38  | 32  | 31 | 31                                   | 30   |                |  |  |  |  |  |  |  |  |  |
| 19       |       | 30        | 31   | 31   | 31  | 25   | 8    | 25   | 25  | 30  | 30  | 30  | 31  | 26  | 24  | 24 | 24 | 25 | 25  | 31  | 35  | 38  | 41  | 42 | 42                                   | 29   |                |  |  |  |  |  |  |  |  |  |
| 20       |       | 42        | 38   | 34   | 24  | 25   | 30   | 31   | 30  | 7   | 14  | 25  | 25  | 17  | 10  | 15 | 15 | 16 | 25  | 42  | 43  | 46  | 43  | 41 | 41                                   | 28   |                |  |  |  |  |  |  |  |  |  |
| 21       |       | 36        | 32   | 36   | 31  | 36   | 39   | 37   | 35  | 31  | 31  | 29  | 30  | 29  | 25  | 26 | 24 | 23 | 25  | 29  | 31  | 32  | 35  | 31 | 31                                   | 31   |                |  |  |  |  |  |  |  |  |  |
| 22       | U     | 31        | 30   | 30   | 30  | 30   | 25   | 27   | 30  | 29  | 27  | 30  | 30  | 26  | 25  | 21 | 19 | 20 | 24  | 27  | 31  | 35  | 35  | 31 | 30                                   | 28   |                |  |  |  |  |  |  |  |  |  |
| 23       |       | 30        | 30   | 27   | 26  | 30   | 31   | 30   | 29  | 26  | 25  | 20  | 19  | 16  | 8   | 8  | 8  | 2  | 15  | 25  | 42  | 37  | 26  | 23 | 25                                   | 23   |                |  |  |  |  |  |  |  |  |  |
| 24       |       | 26        | 26   | 25   | 26  | 30   | 31   | 31   | 29  | 26  | 21  | 25  | 30  | 26  | 23  | 20 | 26 | 30 | 32  | 36  | 37  | 36  | 32  | 29 | 31                                   | 29   |                |  |  |  |  |  |  |  |  |  |
| 25       |       | 31        | 31   | 31   | 46  | 41   | 46   | 18   | 25  | 34  | 31  | 31  | 32  | 31  | 26  | 24 | 25 | 27 | 32  | 35  | 37  | 36  | 37  | 31 | 31                                   | 32   |                |  |  |  |  |  |  |  |  |  |
| 26       |       | 36        | 38   | 14   | 31  | 31   | 31   | 32   | 29  | 20  | 11  | 8   | 6   | 3   | 4   | 4  | 16 | 30 | 30  | 36  | 42  | 68  | 53  | 38 | 36                                   | 27   |                |  |  |  |  |  |  |  |  |  |
| 27       |       | 37        | 27   | 32   | 39  | -3   | 9    | 21   | 31  | 32  | 28  | 31  | 26  | 23  | 20  | 16 | 20 | 26 | 28  | 31  | 33  | 32  | 33  | 37 | 36                                   | 27   |                |  |  |  |  |  |  |  |  |  |
| 28       |       | 35        | 33   | 32   | -3  | 14   | 18   | 33   | 37  | 35  | 28  | 29  | 26  | 27  | 23  | 22 | 22 | 21 | 26  | 27  | 27  | 32  | 37  | 35 | 33                                   | 27   |                |  |  |  |  |  |  |  |  |  |
| 29       |       | 32        | 31   | 27   | 31  | 16   | 27   | 26   | 7   | 4   | 21  | 25  | 27  | 27  | 27  | 28 | 26 | 26 | 32  | 43  | 42  | 39  | 36  | 31 | 29                                   | 28   |                |  |  |  |  |  |  |  |  |  |
| 30       |       | 30        | 27   | 27   | 27  | 22   | 4    | 7    | 9   | -14 | 25  | 27  | 26  | 22  | 21  | 21 | 19 | 25 | 27  | 31  | 32  | 33  | 37  | 43 | 40                                   | 24   |                |  |  |  |  |  |  |  |  |  |
| MEAN ALL |       | 41        | 31   | 24   | 35  | 20   | 17   | 11   | 20  | 19  | 18  | 17  | 21  | 24  | 23  | 24 | 27 | 29 | 37  | 43  | 50  | 52  | 52  | 44 | 41                                   | 30   |                |  |  |  |  |  |  |  |  |  |
| MEAN U   |       | 37        | 35   | 35   | 34  | 33   | 31   | 29   | 31  | 31  | 33  | 34  | 35  | 32  | 30  | 28 | 28 | 29 | 32  | 37  | 40  | 40  | 38  | 36 | 35                                   | 34   |                |  |  |  |  |  |  |  |  |  |
| MEAN D   |       | 48        | -0   | -27  | 50  | -26  | -31  | -60  | -14 | -17 | -31 | -45 | -23 | 10  | 15  | 25 | 33 | 33 | 64  | 77  | 103 | 104 | 106 | 69 | 55                                   | 21   |                |  |  |  |  |  |  |  |  |  |

AGINCOURT MAGNETIC OBSERVATORY 1966



## HORIZONTAL INTENSITY

| TABLE 28 |        | AGINCOURT           |                     |                     |                     |                     |                     |                     |                     |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | H = 15500 + TABULAR VALUES IN GAMMAS |                      | OCTOBER 1966         |                      |      |     |
|----------|--------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------------------|----------------------|----------------------|----------------------|------|-----|
| DAY      | HOURLY | 0                   | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   | 8                   | 9                    | 10                   | 11                   | 12                   | 13                   | 14                   | 15                   | 16                   | 17                   | 18                   | 19                   | 20                                   | 21                   | 22                   | 23                   | MEAN |     |
|          | UT     | T <sub>0</sub><br>1 | T <sub>0</sub><br>2 | T <sub>0</sub><br>3 | T <sub>0</sub><br>4 | T <sub>0</sub><br>5 | T <sub>0</sub><br>6 | T <sub>0</sub><br>7 | T <sub>0</sub><br>8 | T <sub>0</sub><br>9 | T <sub>0</sub><br>10 | T <sub>0</sub><br>11 | T <sub>0</sub><br>12 | T <sub>0</sub><br>13 | T <sub>0</sub><br>14 | T <sub>0</sub><br>15 | T <sub>0</sub><br>16 | T <sub>0</sub><br>17 | T <sub>0</sub><br>18 | T <sub>0</sub><br>19 | T <sub>0</sub><br>20 | T <sub>0</sub><br>21                 | T <sub>0</sub><br>22 | T <sub>0</sub><br>23 | T <sub>0</sub><br>24 |      |     |
| 1        |        | 666                 | 661                 | 655                 | 661                 | 662                 | 661                 | 661                 | 661                 | 659                 | 662                  | 663                  | 661                  | 652                  | 645                  | 636                  | 632                  | 634                  | 650                  | 660                  | 665                  | 667                                  | 667                  | 672                  | 673                  | 658  |     |
| 2        | U      | 671                 | 670                 | 670                 | 671                 | 671                 | 664                 | 661                 | 666                 | 664                 | 665                  | 664                  | 666                  | 661                  | 652                  | 642                  | 639                  | 643                  | 649                  | 660                  | 666                  | 671                                  | 672                  | 671                  | 672                  | 662  |     |
| 3        |        | 672                 | 672                 | 672                 | 671                 | 675                 | 672                 | 667                 | 664                 | 669                 | 672                  | 675                  | 671                  | 665                  | 654                  | 643                  | 634                  | 633                  | 644                  | 658                  | 671                  | 677                                  | 682                  | 679                  | 673                  | 665  |     |
| 4        | U      | 677                 | 672                 | 663                 | 653                 | 651                 | 660                 | 659                 | 656                 | 661                 | 661                  | 669                  | 682                  | 671                  | 660                  | 649                  | 642                  | 647                  | 674                  | 682                  | 715                  | 719                                  | 650                  | 688                  | 701                  | 669  |     |
| 5        | U      | 630                 | 632                 | 630                 | 644                 | 630                 | 633                 | 620                 | 642                 | 616                 | 644                  | 664                  | 613                  | 660                  | 640                  | 627                  | 605                  | 594                  | 627                  | 644                  | 666                  | 653                                  | 661                  | 660                  | 654                  | 637  |     |
| 6        | U      | 659                 | 665                 | 655                 | 657                 | 638                 | 622                 | 647                 | 659                 | 660                 | 653                  | 655                  | 655                  | 638                  | 621                  | 631                  | 632                  | 638                  | 644                  | 653                  | 661                  | 654                                  | 660                  | 660                  | 671                  | 649  |     |
| 7        |        | 671                 | 669                 | 679                 | 671                 | 664                 | 666                 | 671                 | 670                 | 671                 | 671                  | 675                  | 675                  | 669                  | 661                  | 646                  | 620                  | 611                  | 626                  | 646                  | 656                  | 658                                  | 661                  | 654                  | 644                  | 658  |     |
| 8        |        | 664                 | 665                 | 665                 | 665                 | 669                 | 669                 | 669                 | 666                 | 665                 | 674                  | 675                  | 672                  | 666                  | 655                  | 645                  | 638                  | 642                  | 650                  | 659                  | 666                  | 667                                  | 664                  | 667                  | 671                  | 663  |     |
| 9        |        | 671                 | 665                 | 659                 | 658                 | 672                 | 661                 | 659                 | 655                 | 663                 | 660                  | 669                  | 671                  | 666                  | 663                  | 648                  | 642                  | 638                  | 653                  | 657                  | 665                  | 662                                  | 669                  | 664                  | 664                  | 661  |     |
| 10       |        | 671                 | 671                 | 674                 | 674                 | 672                 | 671                 | 671                 | 671                 | 671                 | 671                  | 671                  | 671                  | 672                  | 665                  | 654                  | 641                  | 632                  | 632                  | 644                  | 660                  | 666                                  | 671                  | 674                  | 676                  | 677  | 665 |
| 11       | U      | 677                 | 677                 | 676                 | 675                 | 675                 | 675                 | 675                 | 676                 | 676                 | 677                  | 678                  | 676                  | 666                  | 655                  | 647                  | 639                  | 639                  | 649                  | 664                  | 666                  | 670                                  | 673                  | 675                  | 675                  | 668  |     |
| 12       |        | 673                 | 668                 | 669                 | 671                 | 671                 | 673                 | 671                 | 675                 | 680                 | 682                  | 676                  | 677                  | 669                  | 653                  | 643                  | 636                  | 637                  | 649                  | 660                  | 655                  | 676                                  | 686                  | 666                  | 666                  | 666  |     |
| 13       |        | 671                 | 676                 | 676                 | 675                 | 675                 | 675                 | 672                 | 672                 | 675                 | 675                  | 676                  | 671                  | 661                  | 650                  | 640                  | 639                  | 644                  | 649                  | 666                  | 671                  | 674                                  | 682                  | 682                  | 672                  | 667  |     |
| 14       |        | 680                 | 682                 | 681                 | 677                 | 672                 | 671                 | 675                 | 675                 | 676                 | 676                  | 676                  | 675                  | 664                  | 649                  | 642                  | 636                  | 638                  | 649                  | 660                  | 669                  | 677                                  | 681                  | 677                  | 680                  | 668  |     |
| 15       |        | 680                 | 682                 | 677                 | 672                 | 672                 | 673                 | 671                 | 671                 | 672                 | 675                  | 682                  | 679                  | 672                  | 661                  | 649                  | 650                  | 653                  | 657                  | 671                  | 667                  | 664                                  | 671                  | 655                  | 659                  | 668  |     |
| 16       | U      | 670                 | 677                 | 666                 | 677                 | 682                 | 669                 | 669                 | 646                 | 636                 | 677                  | 683                  | 664                  | 642                  | 622                  | 631                  | 638                  | 638                  | 626                  | 631                  | 644                  | 647                                  | 651                  | 662                  | 662                  | 655  |     |
| 17       |        | 654                 | 663                 | 664                 | 663                 | 664                 | 663                 | 664                 | 665                 | 669                 | 671                  | 672                  | 675                  | 672                  | 664                  | 649                  | 634                  | 627                  | 631                  | 648                  | 660                  | 671                                  | 677                  | 681                  | 680                  | 662  |     |
| 18       |        | 666                 | 667                 | 671                 | 672                 | 675                 | 672                 | 672                 | 675                 | 675                 | 675                  | 676                  | 676                  | 671                  | 661                  | 650                  | 639                  | 632                  | 633                  | 649                  | 660                  | 667                                  | 672                  | 677                  | 677                  | 665  |     |
| 19       |        | 677                 | 677                 | 677                 | 671                 | 674                 | 671                 | 665                 | 671                 | 675                 | 676                  | 677                  | 677                  | 675                  | 666                  | 655                  | 649                  | 643                  | 639                  | 644                  | 661                  | 669                                  | 671                  | 677                  | 681                  | 667  |     |
| 20       |        | 677                 | 676                 | 677                 | 677                 | 676                 | 675                 | 676                 | 677                 | 680                 | 682                  | 682                  | 682                  | 682                  | 672                  | 661                  | 655                  | 649                  | 645                  | 654                  | 660                  | 668                                  | 676                  | 681                  | 682                  | 672  |     |
| 21       | U      | 682                 | 682                 | 681                 | 680                 | 678                 | 679                 | 680                 | 682                 | 682                 | 682                  | 682                  | 686                  | 679                  | 669                  | 660                  | 654                  | 649                  | 650                  | 655                  | 665                  | 671                                  | 677                  | 683                  | 686                  | 674  |     |
| 22       | U      | 686                 | 684                 | 682                 | 682                 | 682                 | 682                 | 682                 | 682                 | 682                 | 682                  | 683                  | 686                  | 686                  | 682                  | 671                  | 659                  | 649                  | 643                  | 644                  | 648                  | 660                                  | 670                  | 673                  | 682                  | 682  | 673 |
| 23       | U      | 676                 | 677                 | 680                 | 680                 | 680                 | 680                 | 680                 | 679                 | 682                 | 682                  | 686                  | 686                  | 682                  | 674                  | 661                  | 655                  | 650                  | 655                  | 669                  | 680                  | 688                                  | 688                  | 697                  | 698                  | 678  |     |
| 24       |        | 698                 | 698                 | 693                 | 693                 | 687                 | 686                 | 686                 | 690                 | 693                 | 697                  | 698                  | 697                  | 692                  | 672                  | 650                  | 631                  | 649                  | 660                  | 667                  | 669                  | 678                                  | 677                  | 671                  | 664                  | 679  |     |
| 25       |        | 671                 | 671                 | 659                 | 671                 | 671                 | 666                 | 669                 | 663                 | 655                 | 656                  | 670                  | 682                  | 674                  | 653                  | 659                  | 658                  | 654                  | 661                  | 676                  | 669                  | 669                                  | 681                  | 675                  | 657                  | 666  |     |
| 26       |        | 677                 | 682                 | 678                 | 678                 | 658                 | 662                 | 672                 | 673                 | 672                 | 672                  | 676                  | 677                  | 672                  | 656                  | 634                  | 629                  | 640                  | 640                  | 665                  | 664                  | 668                                  | 668                  | 672                  | 673                  | 665  |     |
| 27       |        | 672                 | 670                 | 673                 | 676                 | 675                 | 672                 | 673                 | 675                 | 676                 | 676                  | 677                  | 676                  | 669                  | 656                  | 640                  | 634                  | 640                  | 654                  | 668                  | 678                  | 676                                  | 678                  | 672                  | 666                  | 668  |     |
| 28       |        | 673                 | 675                 | 676                 | 678                 | 677                 | 677                 | 677                 | 677                 | 677                 | 678                  | 678                  | 677                  | 667                  | 651                  | 639                  | 634                  | 637                  | 648                  | 656                  | 666                  | 672                                  | 676                  | 679                  | 678                  | 667  |     |
| 29       |        | 678                 | 678                 | 678                 | 683                 | 681                 | 679                 | 682                 | 677                 | 678                 | 678                  | 679                  | 677                  | 668                  | 654                  | 639                  | 634                  | 634                  | 640                  | 655                  | 667                  | 672                                  | 677                  | 681                  | 684                  | 669  |     |
| 30       |        | 681                 | 687                 | 687                 | 683                 | 683                 | 685                 | 683                 | 683                 | 684                 | 687                  | 688                  | 692                  | 689                  | 676                  | 672                  | 661                  | 643                  | 628                  | 654                  | 664                  | 670                                  | 660                  | 643                  | 672                  | 673  |     |
| 31       | U      | 677                 | 649                 | 617                 | 661                 | 665                 | 622                 | 661                 | 651                 | 661                 | 671                  | 672                  | 666                  | 672                  | 660                  | 617                  | 628                  | 621                  | 630                  | 625                  | 634                  | 631                                  | 639                  | 642                  | 645                  | 646  |     |
| MEAN ALL |        | 672                 | 672                 | 670                 | 671                 | 670                 | 667                 | 669                 | 669                 | 669                 | 673                  | 676                  | 674                  | 669                  | 656                  | 645                  | 638                  | 638                  | 645                  | 657                  | 665                  | 669                                  | 671                  | 671                  | 672                  | 665  |     |
| MEAN U   |        | 678                 | 678                 | 678                 | 678                 | 677                 | 676                 | 676                 | 677                 | 677                 | 678                  | 680                  | 680                  | 674                  | 664                  | 654                  | 647                  | 645                  | 649                  | 659                  | 667                  | 674                                  | 676                  | 681                  | 683                  | 671  |     |
| MEAN D   |        | 663                 | 659                 | 646                 | 654                 | 653                 | 641                 | 651                 | 651                 | 647                 | 661                  | 669                  | 656                  | 657                  | 641                  | 631                  | 629                  | 628                  | 640                  | 647                  | 664                  | 661                                  | 652                  | 662                  | 667                  | 651  |     |

## DECLINATION

| TABLE 29 |        | AGINCOURT                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | MEAN         |    |
|----------|--------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|----|
|          |        | D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | OCTOBER 1966 |    |
| DAY      | HOURLY | 0  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | MEAN         |    |
|          | UT     | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   |              | T0 |
|          |        | 1  | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   |              |    |
| 1        |        | 30.7   | 31.2 | 32.5 | 33.7 | 33.8 | 34.4 | 35.7 | 33.5 | 31.3 | 32.6 | 32.3 | 30.6 | 29.3 | 28.4 | 30.1 | 33.4 | 36.0 | 38.1 | 38.8 | 38.0 | 37.1 | 35.7 | 34.6 | 34.4 | 33.6         |    |
| 2        | U      | 33.9   | 33.9 | 33.9 | 33.9 | 33.5 | 33.6 | 32.4 | 30.7 | 29.4 | 29.9 | 29.4 | 29.7 | 30.3 | 30.1 | 31.3 | 34.6 | 38.0 | 39.3 | 39.1 | 38.0 | 36.7 | 35.2 | 34.6 | 34.5 | 33.6         |    |
| 3        |        | 34.2   | 33.8 | 33.8 | 33.8 | 33.7 | 33.8 | 30.5 | 29.4 | 31.4 | 32.4 | 32.5 | 31.6 | 30.5 | 29.6 | 29.5 | 32.5 | 35.9 | 39.1 | 41.2 | 40.6 | 38.7 | 37.0 | 36.8 | 35.7 | 34.1         |    |
| 4        | U      | 34.9   | 35.7 | 34.6 | 34.1 | 35.7 | 30.1 | 29.3 | 28.5 | 30.0 | 31.3 | 34.9 | 31.1 | 30.4 | 28.3 | 32.6 | 33.5 | 35.7 | 39.1 | 41.1 | 41.2 | 48.7 | 49.1 | 46.2 | 43.2 | 35.8         |    |
| 5        | U      | 28.3   | 28.4 | 25.9 | 20.7 | 27.0 | 29.2 | 31.0 | 30.4 | 36.5 | 35.8 | 40.2 | 35.6 | 26.0 | 27.1 | 29.4 | 36.7 | 43.1 | 44.5 | 43.0 | 36.8 | 34.6 | 36.4 | 34.5 | 34.5 | 33.4         |    |
| 6        | U      | 32.7   | 30.4 | 31.4 | 28.8 | 28.2 | 36.9 | 26.2 | 28.0 | 29.7 | 33.8 | 34.9 | 36.7 | 35.8 | 35.7 | 35.9 | 36.8 | 38.9 | 41.0 | 40.7 | 37.9 | 36.9 | 35.6 | 31.3 | 32.5 | 34.0         |    |
| 7        |        | 34.4   | 33.5 | 31.4 | 33.5 | 32.5 | 32.8 | 33.6 | 33.6 | 32.8 | 32.6 | 32.5 | 31.8 | 31.4 | 31.2 | 32.6 | 33.6 | 37.9 | 41.1 | 40.1 | 38.9 | 37.7 | 36.0 | 33.6 | 33.8 | 34.3         |    |
| 8        |        | 34.9   | 34.6 | 33.8 | 33.6 | 34.6 | 33.8 | 33.6 | 33.6 | 36.8 | 37.0 | 33.5 | 33.8 | 32.8 | 31.5 | 33.2 | 35.7 | 36.8 | 38.8 | 38.9 | 37.9 | 36.8 | 35.9 | 35.7 | 34.7 | 35.1         |    |
| 9        |        | 34.2   | 32.8 | 32.1 | 33.6 | 34.9 | 32.7 | 32.6 | 32.5 | 34.2 | 34.0 | 32.7 | 31.5 | 32.4 | 33.6 | 34.9 | 36.0 | 35.7 | 38.0 | 38.0 | 37.0 | 36.6 | 35.7 | 35.7 | 35.7 | 34.5         |    |
| 10       |        | 34.7   | 34.6 | 34.3 | 34.3 | 34.3 | 33.7 | 33.6 | 33.6 | 33.1 | 33.6 | 32.8 | 31.5 | 30.0 | 29.1 | 30.3 | 32.9 | 36.8 | 39.3 | 39.6 | 38.1 | 35.7 | 34.7 | 34.6 | 34.3 | 34.2         |    |
| 11       | U      | 33.6   | 33.9 | 33.8 | 33.8 | 33.8 | 33.9 | 33.7 | 33.6 | 33.4 | 32.7 | 32.5 | 31.4 | 31.0 | 30.9 | 31.5 | 34.6 | 37.7 | 39.0 | 39.8 | 38.9 | 36.9 | 35.6 | 34.9 | 34.5 | 34.4         |    |
| 12       |        | 33.7   | 34.4 | 33.9 | 33.4 | 33.8 | 33.7 | 32.8 | 34.6 | 32.2 | 32.3 | 31.5 | 32.6 | 28.6 | 29.8 | 30.6 | 33.4 | 37.4 | 38.7 | 39.8 | 39.9 | 37.1 | 36.6 | 36.6 | 35.8 | 34.3         |    |
| 13       |        | 32.6   | 33.7 | 33.6 | 33.7 | 33.6 | 33.4 | 33.5 | 33.5 | 33.2 | 32.7 | 31.9 | 31.2 | 32.4 | 31.6 | 31.4 | 34.6 | 38.2 | 41.1 | 40.2 | 39.0 | 37.7 | 36.9 | 37.0 | 34.6 | 34.6         |    |
| 14       |        | 34.4   | 34.0 | 33.8 | 35.3 | 34.9 | 33.7 | 34.3 | 34.6 | 32.7 | 32.4 | 32.4 | 31.3 | 29.4 | 28.2 | 30.4 | 33.7 | 37.1 | 40.1 | 40.3 | 39.0 | 37.5 | 35.8 | 35.0 | 34.6 | 34.4         |    |
| 15       |        | 33.7   | 33.6 | 32.7 | 32.5 | 33.7 | 33.8 | 33.6 | 33.8 | 32.5 | 32.5 | 30.5 | 29.2 | 28.5 | 28.3 | 29.6 | 33.4 | 36.6 | 38.9 | 42.0 | 42.1 | 40.0 | 38.1 | 37.6 | 33.7 | 34.2         |    |
| 16       | U      | 33.1   | 33.8 | 31.3 | 31.4 | 31.2 | 30.4 | 32.6 | 34.2 | 34.2 | 27.1 | 33.8 | 41.2 | 43.1 | 56.0 | 45.7 | 40.1 | 37.9 | 40.0 | 41.0 | 40.0 | 38.8 | 36.6 | 34.4 | 33.9 | 36.9         |    |
| 17       |        | 33.6   | 33.6 | 33.8 | 33.6 | 32.6 | 34.3 | 34.6 | 34.4 | 33.8 | 33.6 | 33.4 | 32.5 | 30.4 | 29.1 | 28.4 | 30.8 | 34.7 | 40.0 | 42.2 | 41.5 | 40.0 | 38.9 | 37.0 | 36.1 | 34.7         |    |
| 18       |        | 36.7   | 35.7 | 33.9 | 33.8 | 34.2 | 34.0 | 33.7 | 33.5 | 33.2 | 32.6 | 32.6 | 32.4 | 31.2 | 29.3 | 29.2 | 30.5 | 33.6 | 37.0 | 39.2 | 39.9 | 38.7 | 37.9 | 36.6 | 35.7 | 34.4         |    |
| 19       |        | 34.7   | 34.0 | 33.8 | 33.7 | 32.9 | 32.6 | 32.6 | 32.7 | 32.8 | 32.7 | 33.5 | 32.9 | 31.4 | 30.4 | 29.4 | 30.5 | 32.6 | 36.7 | 39.4 | 40.0 | 38.6 | 37.1 | 36.7 | 35.6 | 34.0         |    |
| 20       |        | 34.6   | 33.7 | 33.6 | 33.2 | 32.6 | 32.6 | 32.8 | 32.8 | 32.8 | 33.7 | 33.7 | 32.8 | 31.5 | 30.5 | 30.5 | 30.9 | 32.7 | 35.8 | 38.3 | 40.1 | 40.1 | 38.8 | 36.9 | 35.5 | 34.2         |    |
| 21       | U      | 34.3   | 33.7 | 33.6 | 33.6 | 33.5 | 33.6 | 33.6 | 34.6 | 33.6 | 33.5 | 33.6 | 33.6 | 30.8 | 31.5 | 30.6 | 31.4 | 33.9 | 37.2 | 39.1 | 40.1 | 38.8 | 36.8 | 35.8 | 34.7 | 34.3         |    |
| 22       | U      | 33.9   | 33.7 | 33.5 | 33.6 | 33.6 | 33.6 | 33.7 | 33.7 | 33.6 | 33.7 | 33.5 | 32.7 | 30.6 | 28.9 | 28.3 | 29.4 | 32.5 | 35.8 | 38.1 | 39.0 | 38.2 | 36.9 | 36.1 | 35.1 | 33.8         |    |
| 23       | U      | 35.6   | 33.8 | 33.6 | 33.2 | 33.0 | 33.0 | 33.0 | 33.3 | 33.6 | 33.5 | 33.2 | 32.7 | 30.7 | 29.2 | 28.3 | 29.2 | 32.7 | 35.9 | 38.9 | 39.2 | 38.2 | 37.0 | 35.9 | 35.4 | 33.8         |    |
| 24       |        | 33.9   | 33.0 | 32.6 | 32.4 | 32.5 | 32.6 | 32.8 | 32.8 | 32.6 | 32.5 | 31.6 | 30.8 | 29.9 | 26.9 | 25.0 | 32.8 | 39.2 | 40.3 | 39.6 | 39.1 | 40.1 | 40.0 | 40.1 | 38.0 | 34.2         |    |
| 25       |        | 35.0   | 32.7 | 26.2 | 31.4 | 33.2 | 31.7 | 29.3 | 26.1 | 35.6 | 35.7 | 36.9 | 36.6 | 32.6 | 35.8 | 32.0 | 34.8 | 38.0 | 39.6 | 40.6 | 42.1 | 40.8 | 36.9 | 37.7 | 30.5 | 34.7         |    |
| 26       |        | 31.5   | 33.8 | 33.6 | 32.6 | 24.0 | 32.6 | 33.7 | 33.8 | 32.6 | 33.8 | 33.7 | 31.7 | 29.7 | 27.6 | 30.5 | 36.7 | 38.9 | 41.4 | 40.1 | 39.0 | 37.6 | 36.1 | 35.6 | 34.6 | 34.0         |    |
| 27       |        | 33.6   | 33.2 | 34.4 | 34.5 | 34.7 | 34.7 | 34.7 | 33.7 | 33.8 | 33.7 | 33.0 | 32.6 | 30.6 | 29.3 | 29.4 | 33.0 | 36.6 | 38.8 | 38.1 | 38.1 | 36.6 | 35.5 | 34.6 | 30.2 | 34.1         |    |
| 28       |        | 33.9   | 33.8 | 31.7 | 33.9 | 34.6 | 34.8 | 34.9 | 34.4 | 34.0 | 33.8 | 33.6 | 32.7 | 30.6 | 29.4 | 29.5 | 32.7 | 36.7 | 39.2 | 40.4 | 39.1 | 37.9 | 36.2 | 34.9 | 34.8 | 34.5         |    |
| 29       |        | 34.7   | 33.9 | 33.8 | 34.7 | 34.6 | 34.8 | 34.6 | 34.8 | 33.8 | 33.6 | 32.9 | 32.7 | 31.3 | 29.8 | 28.7 | 32.7 | 37.7 | 41.4 | 42.3 | 40.0 | 37.0 | 35.2 | 35.1 | 34.8 | 34.8         |    |
| 30       |        | 34.0   | 33.7 | 33.9 | 33.8 | 33.6 | 34.6 | 34.1 | 33.7 | 33.6 | 32.9 | 32.8 | 32.5 | 29.6 | 27.2 | 26.6 | 29.9 | 34.9 | 40.5 | 44.3 | 41.3 | 41.3 | 40.3 | 38.2 | 34.8 | 34.7         |    |
| 31       | U      | 32.8   | 31.6 | 22.2 | 32.5 | 36.2 | 29.6 | 34.0 | 36.9 | 36.4 | 35.1 | 32.4 | 38.1 | 38.3 | 34.8 | 40.3 | 44.4 | 42.3 | 42.3 | 39.4 | 38.3 | 43.2 | 39.1 | 38.1 | 34.0 | 36.3         |    |
| MEAN ALL |        | 33.8   | 33.4 | 32.5 | 32.9 | 33.1 | 33.2 | 33.1 | 33.0 | 33.2 | 33.1 | 33.2 | 32.8 | 31.3 | 30.9 | 31.2 | 33.7 | 36.7 | 39.3 | 40.1 | 39.4 | 38.5 | 37.2 | 36.2 | 34.9 | 34.4         |    |
| MEAN U   |        | 34.3   | 33.8 | 33.7 | 33.6 | 33.5 | 33.5 | 33.3 | 33.0 | 32.7 | 32.6 | 32.4 | 32.0 | 30.7 | 30.1 | 30.0 | 31.9 | 35.0 | 37.5 | 39.0 | 39.0 | 37.7 | 36.3 | 35.5 | 34.8 | 34.0         |    |
| MEAN D   |        | 32.4   | 32.0 | 29.1 | 29.5 | 31.7 | 31.2 | 31.8 | 32.4 | 33.4 | 32.6 | 35.2 | 36.5 | 34.7 | 36.4 | 36.8 | 38.3 | 39.6 | 41.4 | 41.0 | 38.8 | 40.4 | 39.3 | 36.9 | 35.6 | 35.3         |    |

## VERTICAL INTENSITY

| TABLE 30 |        | AGINCOURT |     |    |     |     |     |     |      |      |     |     |     |     |     |     |    |    |    |    |    | Z = 56000 + TABULAR VALUES IN GAMMAS |    | OCTOBER 1966 |    |      |    |
|----------|--------|-----------|-----|----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|--------------------------------------|----|--------------|----|------|----|
| DAY      | HOURLY | 0         | 1   | 2  | 3   | 4   | 5   | 6   | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18 | 19 | 20                                   | 21 | 22           | 23 | MEAN |    |
|          | UT     | T0        | T0  | T0 | T0  | T0  | T0  | T0  | T0   | T0   | T0  | T0  | T0  | T0  | T0  | T0  | T0 | T0 | T0 | T0 | T0 | T0                                   | T0 | T0           | T0 |      | T0 |
|          |        | 1         | 2   | 3  | 4   | 5   | 6   | 7   | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16 | 17 | 18 | 19 | 20 | 21                                   | 22 | 23           | 24 |      |    |
| 1        |        | 38        | 33  | 37 | 36  | 33  | 32  | 27  | 25   | 22   | 26  | 27  | 32  | 32  | 31  | 27  | 24 | 21 | 25 | 27 | 31 | 31                                   | 29 | 27           | 26 | 29   |    |
| 2        | U      | 26        | 26  | 26 | 26  | 26  | 26  | 26  | 22   | 16   | 15  | 16  | 19  | 20  | 21  | 21  | 19 | 21 | 27 | 27 | 26 | 25                                   | 26 | 26           | 26 | 23   |    |
| 3        |        | 26        | 26  | 26 | 26  | 26  | 22  | 18  | 20   | 26   | 27  | 26  | 27  | 26  | 22  | 20  | 18 | 19 | 19 | 18 | 21 | 23                                   | 24 | 24           | 23 |      |    |
| 4        | U      | 23        | 26  | 29 | 25  | 13  | 19  | 12  | 17   | 22   | 22  | 16  | 16  | 17  | 19  | 17  | 8  | 5  | 0  | 11 | 23 | 34                                   | 61 | 140          | 25 |      |    |
| 5        | U      | 96        | 103 | 36 | -12 | 16  | 18  | -16 | -33  | -22  | -89 | -95 | -29 | 10  | 15  | 16  | 22 | 33 | 34 | 37 | 45 | 48                                   | 38 | 45           | 40 | 15   |    |
| 6        | U      | 38        | 30  | 29 | 17  | -13 | -89 | -37 | 6    | 18   | 17  | 10  | 18  | 15  | 23  | 32  | 29 | 34 | 34 | 28 | 33 | 33                                   | 39 | 39           | 34 | 17   |    |
| 7        |        | 29        | 29  | 23 | 21  | 26  | 27  | 26  | 27   | 27   | 26  | 28  | 28  | 27  | 27  | 24  | 28 | 34 | 34 | 32 | 28 | 32                                   | 35 | 39           | 28 |      |    |
| 8        |        | 34        | 30  | 28 | 28  | 23  | 23  | 24  | 23   | 13   | 7   | 11  | 14  | 19  | 22  | 23  | 18 | 20 | 24 | 28 | 29 | 29                                   | 28 | 28           | 23 |      |    |
| 9        |        | 25        | 25  | 28 | 29  | 12  | 12  | 14  | 10   | 12   | 12  | 20  | 25  | 25  | 25  | 26  | 24 | 24 | 23 | 23 | 25 | 28                                   | 29 | 30           | 30 | 22   |    |
| 10       |        | 28        | 28  | 25 | 24  | 24  | 24  | 24  | 24   | 24   | 24  | 24  | 24  | 26  | 26  | 26  | 29 | 28 | 26 | 28 | 29 | 30                                   | 29 | 29           | 25 | 26   |    |
| 11       | Q      | 24        | 23  | 22 | 22  | 22  | 24  | 24  | 24   | 24   | 23  | 22  | 24  | 24  | 24  | 19  | 19 | 22 | 22 | 24 | 25 | 26                                   | 29 | 29           | 28 | 24   |    |
| 12       |        | 25        | 26  | 27 | 25  | 25  | 24  | 25  | 20   | 25   | 25  | 23  | 25  | 26  | 26  | 27  | 25 | 30 | 31 | 31 | 31 | 30                                   | 31 | 30           | 30 | 27   |    |
| 13       |        | 29        | 26  | 25 | 25  | 24  | 23  | 23  | 25   | 20   | 23  | 23  | 25  | 25  | 20  | 19  | 13 | 12 | 18 | 18 | 20 | 25                                   | 29 | 30           | 29 | 23   |    |
| 14       |        | 26        | 25  | 25 | 27  | 29  | 26  | 25  | 21   | 22   | 24  | 25  | 26  | 26  | 25  | 25  | 19 | 13 | 15 | 19 | 20 | 23                                   | 25 | 22           | 23 | 23   |    |
| 15       |        | 22        | 22  | 23 | 23  | 25  | 23  | 23  | 25   | 23   | 23  | 21  | 21  | 21  | 20  | 16  | 13 | 9  | 14 | 22 | 25 | 27                                   | 31 | 32           | 37 | 23   |    |
| 16       | Q      | 32        | 26  | 21 | 4   | -8  | 5   | -4  | -160 | -137 | -70 | -37 | -35 | -31 | -37 | -14 | 8  | 13 | 18 | 26 | 32 | 36                                   | 33 | 30           | 28 | -9   |    |
| 17       |        | 27        | 26  | 26 | 24  | 19  | 24  | 26  | 26   | 25   | 24  | 26  | 26  | 27  | 26  | 25  | 26 | 25 | 27 | 30 | 31 | 30                                   | 29 | 27           | 26 | 26   |    |
| 18       |        | 32        | 32  | 28 | 27  | 25  | 25  | 25  | 25   | 23   | 25  | 27  | 27  | 27  | 28  | 27  | 27 | 28 | 27 | 28 | 31 | 31                                   | 28 | 26           | 26 | 27   |    |
| 19       |        | 25        | 24  | 25 | 27  | 25  | 23  | 23  | 26   | 25   | 23  | 23  | 25  | 27  | 26  | 25  | 25 | 23 | 23 | 22 | 22 | 25                                   | 25 | 24           | 24 | 24   |    |
| 20       |        | 25        | 25  | 25 | 24  | 23  | 23  | 23  | 23   | 23   | 22  | 22  | 23  | 22  | 23  | 22  | 21 | 17 | 15 | 16 | 19 | 22                                   | 27 | 26           | 23 | 22   |    |
| 21       | Q      | 22        | 22  | 22 | 22  | 22  | 22  | 22  | 21   | 21   | 21  | 21  | 22  | 22  | 23  | 24  | 22 | 16 | 15 | 20 | 21 | 22                                   | 22 | 21           | 21 | 21   |    |
| 22       | Q      | 22        | 22  | 21 | 21  | 21  | 22  | 19  | 20   | 20   | 20  | 19  | 22  | 23  | 22  | 22  | 22 | 25 | 29 | 29 | 29 | 26                                   | 24 | 23           | 23 | 23   |    |
| 23       | Q      | 24        | 24  | 23 | 22  | 21  | 19  | 19  | 18   | 18   | 18  | 17  | 19  | 22  | 18  | 17  | 12 | 8  | 11 | 13 | 16 | 18                                   | 18 | 17           | 18 | 18   |    |
| 24       |        | 16        | 16  | 13 | 14  | 16  | 17  | 17  | 18   | 17   | 16  | 16  | 17  | 16  | 12  | 10  | 10 | 6  | 11 | 11 | 13 | 20                                   | 28 | 35           | 43 | 17   |    |
| 25       |        | 41        | 40  | 45 | 35  | 28  | 24  | 13  | 12   | 17   | -3  | 13  | 8   | 7   | 12  | 13  | 7  | 4  | 8  | 17 | 26 | 28                                   | 29 | 29           | 40 | 21   |    |
| 26       |        | 36        | 29  | 24 | 20  | 13  | 19  | 23  | 23   | 20   | 22  | 20  | 23  | 24  | 20  | 13  | 13 | 17 | 18 | 18 | 19 | 24                                   | 24 | 25           | 25 | 21   |    |
| 27       |        | 29        | 29  | 27 | 26  | 24  | 24  | 24  | 24   | 24   | 24  | 24  | 25  | 26  | 24  | 19  | 19 | 19 | 21 | 26 | 26 | 25                                   | 26 | 28           | 28 | 25   |    |
| 28       |        | 28        | 25  | 24 | 24  | 22  | 23  | 23  | 21   | 21   | 23  | 24  | 25  | 26  | 26  | 24  | 19 | 21 | 25 | 26 | 28 | 26                                   | 26 | 25           | 23 | 24   |    |
| 29       |        | 23        | 23  | 23 | 20  | 20  | 20  | 21  | 22   | 22   | 22  | 25  | 27  | 26  | 20  | 16  | 19 | 20 | 25 | 26 | 26 | 26                                   | 25 | 25           | 25 | 23   |    |
| 30       |        | 25        | 25  | 22 | 22  | 20  | 18  | 19  | 20   | 20   | 20  | 20  | 21  | 19  | 12  | 6   | 5  | 16 | 29 | 29 | 32 | 38                                   | 48 | 37           | 23 | 23   |    |
| 31       | U      | 30        | 34  | 47 | 32  | -7  | -57 | -25 | -10  | 5    | 9   | 5   | 16  | 15  | 26  | 22  | 19 | 27 | 41 | 71 | 75 | 71                                   | 66 | 55           | 49 | 26   |    |
| MEAN ALL |        | 30        | 29  | 27 | 23  | 19  | 16  | 16  | 12   | 14   | 14  | 15  | 19  | 21  | 21  | 20  | 19 | 19 | 22 | 25 | 27 | 29                                   | 30 | 31           | 33 | 22   |    |
| MEAN Q   |        | 24        | 23  | 23 | 23  | 23  | 22  | 22  | 21   | 20   | 19  | 19  | 21  | 22  | 22  | 20  | 19 | 19 | 20 | 22 | 23 | 24                                   | 24 | 24           | 23 | 22   |    |
| MEAN U   |        | 44        | 44  | 32 | 13  | 0   | -21 | -14 | -36  | -23  | -22 | -20 | -3  | 5   | 9   | 15  | 19 | 23 | 26 | 33 | 39 | 42                                   | 42 | 46           | 58 | 15   |    |

HORIZONTAL INTENSITY

TABLE 31 AGINCOURT

H = 15500 + TABULAR VALUES IN GAMMAS

NOVEMBER 1966

| DAY      | HOUR<br>UT | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       | 19       | 20       | 21       | 22       | 23       | MEAN |
|----------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|          |            | T0<br>1 | T0<br>2 | T0<br>3 | T0<br>4 | T0<br>5 | T0<br>6 | T0<br>7 | T0<br>8 | T0<br>9 | T0<br>10 | T0<br>11 | T0<br>12 | T0<br>13 | T0<br>14 | T0<br>15 | T0<br>16 | T0<br>17 | T0<br>18 | T0<br>19 | T0<br>20 | T0<br>21 | T0<br>22 | T0<br>23 | T0<br>24 |      |
| 1        | U          | 647     | 668     | 654     | 653     | 669     | 658     | 646     | 648     | 668     | 660      | 663      | 643      | 670      | 659      | 658      | 629      | 610      | 625      | 642      | 654      | 659      | 658      | 658      | 664      | 653  |
| 2        |            | 670     | 664     | 659     | 664     | 669     | 665     | 673     | 672     | 672     | 672      | 670      | 669      | 659      | 657      | 652      | 646      | 637      | 641      | 641      | 663      | 668      | 674      | 665      | 664      | 662  |
| 3        | U          | 664     | 670     | 668     | 668     | 665     | 669     | 670     | 665     | 674     | 670      | 663      | 679      | 672      | 647      | 632      | 620      | 624      | 632      | 646      | 656      | 664      | 669      | 673      | 670      | 660  |
| 4        |            | 669     | 670     | 674     | 673     | 679     | 676     | 664     | 670     | 668     | 673      | 675      | 677      | 671      | 661      | 646      | 638      | 640      | 647      | 657      | 665      | 663      | 674      | 680      | 680      | 666  |
| 5        |            | 676     | 675     | 675     | 675     | 680     | 669     | 659     | 673     | 670     | 672      | 675      | 676      | 671      | 658      | 651      | 647      | 648      | 644      | 659      | 664      | 670      | 676      | 680      | 675      | 667  |
| 6        |            | 675     | 675     | 675     | 672     | 681     | 672     | 670     | 672     | 674     | 671      | 680      | 686      | 676      | 664      | 649      | 645      | 644      | 646      | 649      | 658      | 663      | 666      | 666      | 666      | 666  |
| 7        |            | 671     | 674     | 670     | 669     | 670     | 671     | 675     | 674     | 675     | 679      | 681      | 682      | 682      | 676      | 670      | 666      | 665      | 666      | 671      | 679      | 680      | 680      | 681      | 674      | 674  |
| 8        |            | 665     | 660     | 658     | 660     | 655     | 662     | 670     | 670     | 674     | 676      | 680      | 680      | 676      | 671      | 665      | 672      | 676      | 675      | 675      | 676      | 681      | 686      | 686      | 686      | 672  |
| 9        | U          | 686     | 681     | 680     | 681     | 681     | 681     | 680     | 681     | 681     | 685      | 686      | 686      | 683      | 675      | 665      | 665      | 666      | 669      | 676      | 685      | 689      | 692      | 696      | 696      | 681  |
| 10       |            | 696     | 692     | 687     | 686     | 681     | 681     | 680     | 674     | 676     | 682      | 682      | 675      | 680      | 671      | 660      | 653      | 654      | 662      | 672      | 671      | 676      | 675      | 679      | 681      | 676  |
| 11       |            | 676     | 680     | 680     | 681     | 680     | 671     | 673     | 675     | 676     | 680      | 675      | 682      | 679      | 667      | 654      | 645      | 646      | 658      | 674      | 681      | 681      | 683      | 685      | 685      | 674  |
| 12       |            | 682     | 682     | 675     | 670     | 672     | 675     | 676     | 676     | 676     | 675      | 680      | 681      | 675      | 664      | 654      | 649      | 649      | 650      | 655      | 669      | 681      | 681      | 682      | 685      | 671  |
| 13       |            | 680     | 685     | 679     | 679     | 674     | 673     | 674     | 675     | 675     | 673      | 667      | 680      | 674      | 664      | 653      | 653      | 654      | 658      | 659      | 675      | 686      | 680      | 681      | 686      | 672  |
| 14       | U          | 685     | 684     | 683     | 684     | 680     | 680     | 680     | 679     | 681     | 684      | 685      | 686      | 680      | 665      | 652      | 645      | 643      | 649      | 663      | 674      | 683      | 686      | 691      | 686      | 675  |
| 15       |            | 685     | 685     | 685     | 686     | 685     | 684     | 684     | 681     | 686     | 686      | 685      | 686      | 684      | 674      | 664      | 660      | 659      | 664      | 672      | 675      | 679      | 680      | 679      | 674      | 678  |
| 16       |            | 674     | 672     | 669     | 665     | 665     | 664     | 670     | 664     | 670     | 669      | 679      | 681      | 679      | 669      | 658      | 653      | 652      | 658      | 669      | 680      | 684      | 685      | 685      | 685      | 671  |
| 17       |            | 690     | 675     | 684     | 675     | 671     | 685     | 680     | 680     | 684     | 680      | 681      | 686      | 684      | 675      | 668      | 665      | 669      | 679      | 673      | 673      | 671      | 674      | 678      | 680      | 678  |
| 18       |            | 680     | 681     | 685     | 686     | 685     | 685     | 685     | 686     | 687     | 687      | 690      | 691      | 691      | 680      | 669      | 669      | 678      | 673      | 674      | 684      | 688      | 680      | 663      | 669      | 681  |
| 19       |            | 673     | 671     | 665     | 663     | 668     | 665     | 668     | 666     | 674     | 674      | 675      | 680      | 673      | 661      | 661      | 658      | 652      | 653      | 664      | 673      | 676      | 684      | 690      | 686      | 670  |
| 20       |            | 675     | 674     | 675     | 678     | 679     | 675     | 685     | 681     | 680     | 681      | 685      | 685      | 686      | 685      | 675      | 668      | 663      | 663      | 665      | 671      | 680      | 680      | 680      | 681      | 677  |
| 21       |            | 685     | 684     | 681     | 678     | 680     | 670     | 674     | 674     | 678     | 681      | 680      | 681      | 679      | 672      | 663      | 658      | 653      | 659      | 674      | 684      | 686      | 680      | 684      | 681      | 676  |
| 22       | U          | 684     | 684     | 684     | 680     | 680     | 681     | 685     | 685     | 685     | 686      | 686      | 686      | 685      | 680      | 669      | 661      | 659      | 665      | 674      | 681      | 689      | 691      | 691      | 691      | 681  |
| 23       | U          | 690     | 688     | 690     | 689     | 687     | 689     | 690     | 690     | 689     | 687      | 685      | 681      | 674      | 669      | 665      | 668      | 675      | 687      | 692      | 692      | 691      | 691      | 691      | 690      | 685  |
| 24       |            | 685     | 687     | 686     | 685     | 671     | 674     | 673     | 679     | 674     | 679      | 681      | 683      | 683      | 676      | 668      | 669      | 668      | 674      | 680      | 686      | 687      | 690      | 691      | 692      | 680  |
| 25       | U          | 691     | 690     | 692     | 691     | 690     | 689     | 686     | 686     | 688     | 688      | 686      | 687      | 685      | 684      | 687      | 688      | 693      | 701      | 702      | 701      | 695      | 694      | 694      | 698      | 691  |
| 26       |            | 679     | 685     | 686     | 681     | 684     | 686     | 680     | 680     | 680     | 687      | 685      | 686      | 680      | 670      | 671      | 673      | 669      | 675      | 679      | 683      | 686      | 690      | 691      | 689      | 681  |
| 27       |            | 686     | 685     | 685     | 685     | 687     | 685     | 686     | 686     | 690     | 685      | 684      | 685      | 685      | 673      | 664      | 664      | 664      | 671      | 685      | 695      | 695      | 688      | 690      | 686      | 683  |
| 28       | U          | 684     | 681     | 675     | 675     | 675     | 679     | 680     | 680     | 685     | 685      | 686      | 695      | 685      | 675      | 673      | 665      | 663      | 643      | 644      | 660      | 675      | 674      | 680      | 669      | 674  |
| 29       | U          | 658     | 669     | 675     | 675     | 665     | 685     | 674     | 673     | 670     | 664      | 672      | 671      | 675      | 668      | 653      | 637      | 643      | 648      | 668      | 679      | 685      | 680      | 680      | 680      | 669  |
| 30       | U          | 678     | 680     | 675     | 680     | 679     | 670     | 680     | 642     | 665     | 670      | 663      | 672      | 659      | 665      | 656      | 621      | 653      | 663      | 669      | 659      | 670      | 664      | 657      | 674      | 665  |
| MEAN ALL |            | 678     | 678     | 677     | 676     | 676     | 676     | 676     | 675     | 678     | 678      | 679      | 681      | 678      | 669      | 661      | 655      | 655      | 659      | 667      | 675      | 680      | 680      | 681      | 681      | 674  |
| MEAN U   |            | 687     | 685     | 686     | 685     | 684     | 684     | 684     | 684     | 685     | 686      | 686      | 686      | 683      | 676      | 668      | 664      | 665      | 670      | 680      | 687      | 691      | 691      | 693      | 692      | 683  |
| MEAN D   |            | 666     | 674     | 669     | 670     | 671     | 672     | 670     | 662     | 672     | 670      | 669      | 672      | 672      | 663      | 654      | 634      | 638      | 642      | 654      | 662      | 671      | 669      | 670      | 671      | 664  |

## DECLINATION

| TABLE 32 |            | AGINCOURT                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | NOVEMBER 1966 |      |      |      |      |
|----------|------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|------|------|------|------|
|          |            | D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |               |      |      |      |      |
| DAY      | HOUR<br>UT | 0  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20            | 21   | 22   | 23   | MEAN |
|          |            | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0            | T0   | T0   | T0   | T0   |
|          |            | 1  | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21            | 22   | 23   | 24   |      |
| 1        | U          | 30.0   | 30.4 | 30.3 | 30.2 | 31.2 | 31.3 | 43.0 | 35.2 | 30.4 | 40.9 | 35.7 | 43.0 | 45.2 | 43.0 | 32.4 | 35.5 | 40.1 | 41.9 | 41.4 | 39.0 | 37.7          | 36.5 | 32.5 | 33.5 | 36.3 |
| 2        |            | 27.9   | 30.5 | 31.3 | 33.2 | 34.5 | 34.5 | 36.4 | 33.8 | 33.5 | 33.2 | 33.1 | 32.7 | 33.6 | 31.7 | 32.4 | 34.4 | 36.7 | 39.9 | 40.7 | 39.6 | 37.7          | 35.7 | 33.6 | 30.3 | 34.2 |
| 3        | U          | 32.4   | 32.5 | 32.7 | 31.9 | 33.5 | 37.9 | 30.5 | 33.6 | 34.4 | 34.4 | 41.7 | 38.5 | 33.5 | 33.0 | 33.5 | 36.6 | 38.7 | 40.2 | 40.8 | 39.1 | 37.4          | 35.5 | 33.5 | 32.8 | 35.6 |
| 4        |            | 31.4   | 32.4 | 32.6 | 32.5 | 35.3 | 33.5 | 33.0 | 34.4 | 34.3 | 34.4 | 32.6 | 32.2 | 30.8 | 30.0 | 31.3 | 34.4 | 37.1 | 39.8 | 41.1 | 40.2 | 39.7          | 36.6 | 34.5 | 33.5 | 34.5 |
| 5        |            | 33.6   | 32.7 | 32.7 | 32.8 | 34.7 | 33.5 | 40.0 | 35.6 | 32.8 | 32.8 | 32.3 | 32.6 | 30.8 | 31.5 | 34.3 | 35.7 | 39.0 | 40.9 | 41.3 | 39.3 | 36.4          | 35.7 | 34.7 | 33.8 | 35.0 |
| 6        |            | 33.8   | 33.6 | 33.3 | 33.1 | 32.7 | 32.5 | 34.6 | 34.8 | 34.6 | 36.0 | 33.5 | 32.4 | 30.4 | 29.2 | 29.7 | 31.5 | 35.8 | 39.0 | 41.1 | 41.0 | 40.8          | 40.5 | 38.6 | 35.7 | 34.9 |
| 7        |            | 34.5   | 33.7 | 32.8 | 33.6 | 33.0 | 33.6 | 34.7 | 34.5 | 36.7 | 34.7 | 33.7 | 33.2 | 31.8 | 30.6 | 31.5 | 33.8 | 36.5 | 37.7 | 38.2 | 37.8 | 36.7          | 36.3 | 35.8 | 33.0 | 34.5 |
| 8        |            | 30.5   | 32.5 | 32.5 | 31.7 | 33.3 | 32.6 | 33.7 | 33.3 | 33.6 | 33.3 | 33.1 | 32.6 | 32.3 | 31.3 | 31.3 | 35.5 | 36.4 | 37.6 | 37.8 | 37.6 | 35.8          | 34.8 | 34.6 | 34.5 | 33.8 |
| 9        | U          | 33.9   | 34.3 | 33.6 | 34.4 | 34.6 | 34.3 | 33.6 | 33.6 | 33.6 | 33.3 | 32.8 | 32.6 | 31.4 | 30.3 | 30.1 | 32.4 | 34.8 | 37.3 | 37.8 | 37.6 | 35.8          | 34.7 | 34.6 | 33.6 | 34.0 |
| 10       |            | 32.8   | 32.9 | 33.6 | 33.7 | 33.8 | 33.3 | 29.0 | 33.1 | 32.5 | 32.2 | 32.3 | 32.5 | 33.7 | 31.2 | 31.2 | 32.9 | 37.3 | 38.6 | 39.7 | 38.6 | 38.0          | 37.6 | 35.5 | 34.6 | 34.2 |
| 11       |            | 33.7   | 33.7 | 33.8 | 32.5 | 30.2 | 31.5 | 34.2 | 34.7 | 34.5 | 32.4 | 36.6 | 33.7 | 30.5 | 28.3 | 29.2 | 32.5 | 36.4 | 39.0 | 39.6 | 38.1 | 35.8          | 34.7 | 34.4 | 34.0 | 33.9 |
| 12       |            | 33.7   | 33.3 | 31.4 | 32.3 | 34.4 | 34.7 | 34.9 | 35.6 | 33.8 | 34.3 | 33.9 | 31.8 | 30.5 | 29.3 | 29.1 | 31.8 | 35.7 | 39.8 | 43.5 | 43.9 | 38.6          | 36.6 | 35.6 | 34.1 | 34.7 |
| 13       |            | 32.6   | 31.9 | 32.4 | 33.1 | 33.6 | 33.7 | 33.8 | 33.9 | 33.7 | 34.6 | 38.6 | 32.5 | 30.2 | 29.2 | 31.5 | 34.3 | 36.6 | 38.9 | 40.7 | 39.8 | 37.8          | 36.7 | 34.6 | 34.4 | 34.5 |
| 14       | U          | 33.7   | 32.8 | 32.6 | 32.9 | 33.7 | 33.9 | 33.9 | 33.9 | 33.8 | 33.4 | 32.9 | 32.6 | 30.8 | 29.3 | 29.2 | 31.5 | 34.7 | 37.9 | 40.0 | 39.4 | 37.2          | 35.4 | 34.7 | 34.4 | 33.9 |
| 15       |            | 33.8   | 33.7 | 33.0 | 33.4 | 33.6 | 33.7 | 33.9 | 33.8 | 33.6 | 32.8 | 32.8 | 33.4 | 31.4 | 29.4 | 30.3 | 32.6 | 36.4 | 39.0 | 40.1 | 39.9 | 38.4          | 36.9 | 35.7 | 34.5 | 34.4 |
| 16       |            | 33.1   | 31.8 | 32.4 | 31.5 | 31.3 | 31.8 | 31.8 | 32.6 | 33.1 | 29.8 | 32.3 | 32.1 | 31.5 | 30.5 | 30.6 | 32.8 | 34.7 | 37.2 | 38.2 | 37.6 | 35.9          | 35.7 | 34.8 | 34.7 | 33.2 |
| 17       |            | 33.8   | 33.9 | 32.6 | 32.4 | 30.9 | 30.5 | 33.6 | 34.5 | 33.4 | 32.6 | 32.9 | 32.6 | 30.6 | 29.4 | 29.7 | 32.7 | 35.9 | 37.9 | 39.3 | 39.2 | 36.9          | 35.7 | 34.6 | 33.7 | 33.7 |
| 18       |            | 33.1   | 33.4 | 33.6 | 33.9 | 34.5 | 33.9 | 33.9 | 33.9 | 33.8 | 33.4 | 32.7 | 32.5 | 31.5 | 30.4 | 29.4 | 32.7 | 36.7 | 39.3 | 41.1 | 39.9 | 40.1          | 41.4 | 40.0 | 36.9 | 35.1 |
| 19       |            | 33.8   | 32.6 | 32.6 | 31.4 | 32.6 | 33.6 | 34.5 | 34.2 | 39.3 | 30.7 | 32.6 | 31.4 | 31.4 | 31.5 | 32.0 | 33.2 | 34.9 | 37.8 | 38.2 | 38.6 | 36.9          | 36.0 | 34.8 | 34.6 | 34.3 |
| 20       |            | 31.5   | 31.3 | 32.6 | 32.5 | 32.5 | 32.7 | 33.4 | 33.4 | 32.6 | 32.6 | 32.7 | 32.8 | 31.5 | 31.4 | 31.4 | 33.4 | 35.8 | 38.0 | 40.0 | 39.0 | 39.3          | 39.0 | 35.8 | 34.7 | 34.2 |
| 21       |            | 33.8   | 33.6 | 32.9 | 33.4 | 31.8 | 32.4 | 33.4 | 33.6 | 33.7 | 35.9 | 32.6 | 31.8 | 32.5 | 31.5 | 30.5 | 32.8 | 35.9 | 37.7 | 37.9 | 37.1 | 36.0          | 35.8 | 36.8 | 34.6 | 34.1 |
| 22       | U          | 33.8   | 33.6 | 33.6 | 34.0 | 34.0 | 34.0 | 33.9 | 33.9 | 33.8 | 33.7 | 33.4 | 32.9 | 32.7 | 31.5 | 31.4 | 32.3 | 34.6 | 36.8 | 37.8 | 36.8 | 35.8          | 34.8 | 34.3 | 34.1 | 34.1 |
| 23       | U          | 33.7   | 32.8 | 33.6 | 33.8 | 33.7 | 34.1 | 34.5 | 34.6 | 33.9 | 33.7 | 33.7 | 33.6 | 32.7 | 31.3 | 32.1 | 34.3 | 36.0 | 37.9 | 38.1 | 36.7 | 34.8          | 34.7 | 34.5 | 34.0 | 34.3 |
| 24       |            | 33.8   | 33.7 | 33.7 | 32.6 | 32.6 | 34.1 | 36.1 | 33.7 | 34.7 | 31.6 | 31.1 | 32.5 | 30.7 | 30.6 | 31.5 | 33.3 | 35.7 | 37.7 | 38.0 | 36.9 | 35.9          | 35.7 | 34.5 | 34.0 | 33.9 |
| 25       | U          | 33.9   | 33.8 | 33.0 | 34.0 | 33.9 | 33.9 | 33.8 | 34.3 | 34.0 | 32.6 | 32.0 | 32.7 | 32.6 | 31.1 | 31.6 | 34.0 | 36.1 | 37.9 | 37.9 | 36.2 | 34.8          | 34.8 | 34.3 | 34.0 | 34.0 |
| 26       |            | 33.7   | 33.1 | 32.6 | 33.1 | 34.6 | 34.6 | 33.0 | 33.2 | 32.0 | 30.4 | 31.6 | 31.6 | 31.5 | 31.7 | 33.7 | 37.0 | 39.8 | 41.2 | 41.0 | 39.2 | 36.9          | 35.9 | 34.6 | 33.8 | 34.6 |
| 27       |            | 33.0   | 32.9 | 33.1 | 33.8 | 34.6 | 34.7 | 34.8 | 34.8 | 34.0 | 33.4 | 32.8 | 31.3 | 29.4 | 28.5 | 29.3 | 32.0 | 36.0 | 39.1 | 41.0 | 40.6 | 38.0          | 34.9 | 33.7 | 32.8 | 34.1 |
| 28       | U          | 32.5   | 32.5 | 30.4 | 32.9 | 33.9 | 34.0 | 35.4 | 34.9 | 35.1 | 32.7 | 35.9 | 32.7 | 32.2 | 31.6 | 33.4 | 38.0 | 38.3 | 42.2 | 42.2 | 41.0 | 34.9          | 36.1 | 35.8 | 35.9 | 35.2 |
| 29       | U          | 27.4   | 30.4 | 32.8 | 33.9 | 33.5 | 32.7 | 30.9 | 34.8 | 34.9 | 37.9 | 33.7 | 34.8 | 33.8 | 34.5 | 35.1 | 37.9 | 40.0 | 41.5 | 42.2 | 40.1 | 37.7          | 35.9 | 34.0 | 32.9 | 35.4 |
| 30       | U          | 32.7   | 32.8 | 31.9 | 31.6 | 32.6 | 33.8 | 35.7 | 44.6 | 27.6 | 28.8 | 29.6 | 33.5 | 35.9 | 34.9 | 33.9 | 40.1 | 41.5 | 40.0 | 39.9 | 40.3 | 38.5          | 36.9 | 34.8 | 34.1 | 35.3 |
| MEAN ALL |            | 32.7   | 32.8 | 32.7 | 32.9 | 33.3 | 33.5 | 34.7 | 34.6 | 33.7 | 33.4 | 33.5 | 33.2 | 32.2 | 31.3 | 31.4 | 34.1 | 36.8 | 39.0 | 39.9 | 39.0 | 37.2          | 36.3 | 35.0 | 34.0 | 34.5 |
| MEAN U   |            | 33.8   | 33.4 | 33.3 | 33.8 | 34.0 | 34.0 | 33.9 | 34.0 | 33.8 | 33.3 | 33.0 | 32.9 | 32.0 | 30.7 | 30.9 | 32.9 | 35.3 | 37.6 | 38.3 | 37.3 | 35.7          | 34.9 | 34.5 | 34.0 | 34.1 |
| MEAN U   |            | 31.0   | 31.8 | 31.6 | 32.1 | 32.9 | 33.9 | 37.5 | 36.6 | 32.5 | 34.9 | 35.3 | 36.5 | 36.1 | 35.4 | 33.7 | 37.6 | 39.7 | 41.2 | 41.3 | 39.9 | 37.2          | 36.2 | 34.1 | 33.8 | 35.5 |

VERTICAL INTENSITY

TABLE 33 AGINCOURT

Z = 56000 + TABULAR VALUES IN GAMMAS

NOVEMBER 1966

| DAY      | HOOR<br>UT | T <sub>0</sub> | T <sub>1</sub> | T <sub>2</sub> | T <sub>3</sub> | T <sub>4</sub> | T <sub>5</sub> | T <sub>6</sub> | T <sub>7</sub> | T <sub>8</sub> | T <sub>9</sub> | T <sub>10</sub> | T <sub>11</sub> | T <sub>12</sub> | T <sub>13</sub> | T <sub>14</sub> | T <sub>15</sub> | T <sub>16</sub> | T <sub>17</sub> | T <sub>18</sub> | T <sub>19</sub> | T <sub>20</sub> | T <sub>21</sub> | T <sub>22</sub> | T <sub>23</sub> | T <sub>24</sub> | MEAN |
|----------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|
|          |            | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10             | 11              | 12              | 13              | 14              | 15              | 16              | 17              | 18              | 19              | 20              | 21              | 22              | 23              | 24              |                 |      |
| 1        | 0          | 48             | 23             | 31             | 28             | 16             | 5              | -28            | -29            | 5              | -18            | -8              | -7              | -2              | -1              | 0               | 5               | 16              | 31              | 34              | 33              | 29              | 31              | 33              | 33              | 13              |      |
| 2        |            | 27             | 23             | 28             | 29             | 27             | 26             | 21             | 17             | 23             | 24             | 23              | 23              | 26              | 25              | 19              | 15              | 15              | 21              | 27              | 32              | 27              | 28              | 29              | 31              | 24              |      |
| 3        | 0          | 31             | 30             | 28             | 27             | 27             | 6              | -6             | 6              | 18             | 11             | 7               | 9               | 16              | 17              | 22              | 18              | 27              | 30              | 34              | 35              | 34              | 33              | 34              | 32              | 22              |      |
| 4        |            | 29             | 29             | 28             | 23             | 16             | 12             | 16             | 22             | 22             | 24             | 25              | 27              | 27              | 27              | 22              | 18              | 21              | 24              | 29              | 34              | 39              | 33              | 29              | 28              | 25              |      |
| 5        |            | 28             | 27             | 27             | 24             | 11             | 7              | -1             | -5             | 1              | 10             | 15              | 21              | 21              | 24              | 22              | 21              | 21              | 28              | 32              | 34              | 34              | 32              | 29              | 28              | 20              |      |
| 6        |            | 29             | 28             | 28             | 25             | 13             | 8              | 14             | 21             | 23             | 18             | 12              | 14              | 18              | 21              | 23              | 23              | 23              | 25              | 30              | 33              | 35              | 35              | 35              | 35              | 24              |      |
| 7        |            | 32             | 30             | 29             | 30             | 28             | 24             | 22             | 23             | 22             | 19             | 23              | 23              | 23              | 22              | 18              | 17              | 17              | 18              | 23              | 28              | 28              | 25              | 25              | 29              | 24              |      |
| 8        |            | 30             | 33             | 35             | 31             | 33             | 33             | 29             | 28             | 28             | 25             | 24              | 24              | 23              | 18              | 11              | 10              | 8               | 13              | 18              | 22              | 19              | 22              | 23              | 23              | 23              |      |
| 9        | 0          | 23             | 23             | 23             | 24             | 23             | 22             | 20             | 20             | 19             | 20             | 19              | 20              | 20              | 19              | 9               | 8               | 9               | 13              | 16              | 20              | 20              | 19              | 20              | 19              | 19              |      |
| 10       |            | 18             | 18             | 18             | 18             | 17             | 14             | -2             | 18             | 19             | 19             | 19              | 15              | 20              | 19              | 18              | 13              | 13              | 17              | 22              | 24              | 26              | 27              | 27              | 26              | 18              |      |
| 11       |            | 26             | 24             | 24             | 19             | 13             | 15             | 21             | 24             | 24             | 24             | 18              | 18              | 25              | 25              | 24              | 20              | 21              | 25              | 31              | 34              | 30              | 26              | 24              | 23              | 23              |      |
| 12       |            | 23             | 23             | 25             | 27             | 27             | 27             | 25             | 25             | 25             | 23             | 25              | 26              | 27              | 27              | 26              | 25              | 27              | 25              | 31              | 34              | 31              | 26              | 27              | 27              | 26              |      |
| 13       |            | 27             | 25             | 25             | 25             | 25             | 25             | 26             | 25             | 24             | 21             | 16              | 24              | 28              | 27              | 22              | 24              | 25              | 32              | 33              | 36              | 32              | 29              | 28              | 27              | 26              |      |
| 14       | 0          | 25             | 25             | 24             | 23             | 22             | 21             | 21             | 21             | 21             | 22             | 25              | 26              | 27              | 25              | 24              | 21              | 21              | 24              | 26              | 27              | 25              | 25              | 23              | 24              | 24              |      |
| 15       |            | 24             | 24             | 24             | 21             | 21             | 20             | 20             | 20             | 20             | 19             | 19              | 19              | 20              | 20              | 15              | 15              | 18              | 20              | 22              | 25              | 25              | 24              | 24              | 25              | 21              |      |
| 16       |            | 27             | 27             | 26             | 26             | 22             | 24             | 16             | 15             | 9              | 10             | 21              | 22              | 24              | 22              | 19              | 19              | 18              | 20              | 21              | 24              | 22              | 22              | 22              | 22              | 21              |      |
| 17       |            | 22             | 21             | 10             | 11             | 11             | 10             | 16             | 22             | 21             | 20             | 19              | 19              | 20              | 17              | 15              | 15              | 15              | 12              | 21              | 26              | 26              | 25              | 22              | 22              | 18              |      |
| 18       |            | 21             | 20             | 20             | 20             | 19             | 20             | 20             | 20             | 20             | 20             | 17              | 17              | 16              | 15              | 10              | 6               | 10              | 10              | 16              | 20              | 22              | 27              | 38              | 39              | 19              |      |
| 19       |            | 38             | 38             | 38             | 38             | 34             | 29             | 28             | 15             | -6             | 6              | 12              | 15              | 21              | 22              | 21              | 16              | 16              | 21              | 26              | 29              | 27              | 26              | 23              | 25              | 23              |      |
| 20       |            | 27             | 29             | 27             | 27             | 27             | 24             | 22             | 22             | 22             | 22             | 21              | 21              | 21              | 20              | 17              | 15              | 15              | 17              | 23              | 28              | 29              | 29              | 33              | 28              | 24              |      |
| 21       |            | 25             | 23             | 23             | 24             | 22             | 24             | 25             | 21             | 16             | 22             | 22              | 22              | 23              | 21              | 16              | 16              | 17              | 17              | 21              | 22              | 22              | 22              | 22              | 22              | 21              |      |
| 22       | 0          | 23             | 23             | 23             | 24             | 23             | 22             | 22             | 22             | 22             | 21             | 21              | 21              | 22              | 18              | 13              | 11              | 12              | 13              | 18              | 22              | 21              | 18              | 20              | 18              | 20              |      |
| 23       | 0          | 18             | 18             | 18             | 18             | 18             | 18             | 18             | 18             | 17             | 17             | 17              | 18              | 18              | 18              | 16              | 16              | 17              | 17              | 18              | 22              | 21              | 18              | 18              | 17              | 18              |      |
| 24       |            | 17             | 17             | 17             | 13             | 16             | 17             | 10             | 6              | 16             | 16             | 17              | 18              | 17              | 13              | 10              | 6               | 7               | 12              | 18              | 23              | 21              | 21              | 18              | 18              | 15              |      |
| 25       | 0          | 19             | 18             | 18             | 18             | 17             | 17             | 17             | 17             | 18             | 17             | 17              | 17              | 17              | 14              | 7               | 3               | 3               | 7               | 12              | 13              | 13              | 13              | 17              | 18              | 14              |      |
| 26       |            | 19             | 24             | 25             | 25             | 23             | 18             | 18             | 18             | 19             | 18             | 18              | 18              | 19              | 13              | 3               | 1               | 3               | 11              | 18              | 20              | 19              | 19              | 19              | 18              | 17              |      |
| 27       |            | 18             | 18             | 18             | 18             | 18             | 17             | 15             | 16             | 16             | 14             | 14              | 14              | 17              | 15              | 9               | 6               | 7               | 13              | 16              | 19              | 19              | 19              | 19              | 19              | 16              |      |
| 28       | 0          | 19             | 19             | 19             | 19             | 19             | 17             | 15             | 17             | 19             | 17             | 15              | 10              | 12              | 10              | 11              | 9               | 12              | 18              | 30              | 37              | 47              | 37              | 32              | 41              | 21              |      |
| 29       | 0          | 48             | 35             | 31             | 25             | 21             | 8              | -3             | 14             | 15             | 10             | 6               | 10              | 15              | 14              | 9               | 12              | 15              | 20              | 24              | 20              | 23              | 24              | 24              | 24              | 18              |      |
| 30       | 0          | 24             | 24             | 20             | 15             | 14             | 19             | 14             | -44            | -55            | -26            | -23             | -2              | -2              | 9               | 7               | 11              | 19              | 21              | 25              | 26              | 29              | 34              | 42              | 35              | 10              |      |
| MEAN ALL |            | 26             | 25             | 24             | 23             | 21             | 18             | 15             | 15             | 16             | 15             | 16              | 17              | 19              | 19              | 15              | 14              | 16              | 19              | 24              | 27              | 27              | 26              | 26              | 26              | 20              |      |
| MEAN 0   |            | 22             | 21             | 21             | 21             | 21             | 20             | 20             | 20             | 19             | 19             | 19              | 20              | 20              | 19              | 14              | 12              | 12              | 14              | 18              | 20              | 21              | 19              | 20              | 19              | 19              |      |
| MEAN 0   |            | 34             | 26             | 26             | 23             | 19             | 11             | -2             | -7             | 0              | -1             | -1              | 4               | 8               | 10              | 10              | 11              | 18              | 24              | 29              | 30              | 32              | 32              | 33              | 33              | 17              |      |

## HORIZONTAL INTENSITY

| TABLE 34 |        | AGINCOURT |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | H = 15500 + TABULAR VALUES IN GAMMAS |     | DECEMBER 1966 |     |      |    |  |
|----------|--------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------------|-----|---------------|-----|------|----|--|
| DAY      | HOURLY | 0         | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20                                   | 21  | 22            | 23  | MEAN |    |  |
|          | UT     | T0        | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0  | T0                                   | T0  | T0            | T0  |      | T0 |  |
|          |        | 1         | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21                                   | 22  | 23            | 24  |      |    |  |
| 1        |        | 674       | 668 | 658 | 658 | 654 | 659 | 668 | 662 | 673 | 675 | 679 | 680 | 674 | 659 | 654 | 659 | 658 | 659 | 664 | 666 | 664                                  | 674 | 680           | 679 | 667  |    |  |
| 2        |        | 674       | 672 | 674 | 680 | 680 | 679 | 680 | 679 | 680 | 680 | 681 | 684 | 681 | 678 | 668 | 653 | 653 | 658 | 663 | 674 | 680                                  | 681 | 680           | 684 | 675  |    |  |
| 3        | Q      | 681       | 684 | 684 | 684 | 685 | 685 | 685 | 686 | 688 | 691 | 690 | 695 | 694 | 685 | 675 | 670 | 668 | 670 | 677 | 686 | 695                                  | 697 | 694           | 692 | 685  |    |  |
| 4        |        | 691       | 691 | 686 | 686 | 691 | 691 | 689 | 704 | 681 | 685 | 704 | 695 | 691 | 679 | 668 | 667 | 658 | 656 | 667 | 668 | 673                                  | 675 | 680           | 684 | 682  |    |  |
| 5        | U      | 685       | 681 | 679 | 684 | 679 | 681 | 679 | 669 | 670 | 679 | 685 | 685 | 681 | 675 | 665 | 658 | 652 | 648 | 625 | 637 | 658                                  | 670 | 674           | 674 | 670  |    |  |
| 6        |        | 670       | 668 | 664 | 673 | 674 | 674 | 675 | 678 | 679 | 675 | 675 | 676 | 674 | 670 | 663 | 660 | 653 | 653 | 659 | 670 | 675                                  | 681 | 685           | 686 | 671  |    |  |
| 7        |        | 685       | 684 | 680 | 682 | 686 | 683 | 684 | 683 | 684 | 685 | 685 | 686 | 686 | 685 | 675 | 665 | 659 | 666 | 675 | 685 | 688                                  | 692 | 690           | 691 | 682  |    |  |
| 8        |        | 691       | 691 | 690 | 685 | 684 | 685 | 685 | 686 | 685 | 686 | 686 | 690 | 689 | 684 | 674 | 670 | 668 | 673 | 680 | 687 | 695                                  | 696 | 694           | 690 | 685  |    |  |
| 9        | Q      | 688       | 690 | 688 | 690 | 686 | 686 | 686 | 688 | 686 | 687 | 690 | 691 | 691 | 687 | 686 | 685 | 680 | 685 | 691 | 698 | 697                                  | 696 | 696           | 695 | 689  |    |  |
| 10       |        | 695       | 692 | 692 | 691 | 690 | 690 | 687 | 690 | 686 | 684 | 691 | 692 | 690 | 685 | 680 | 676 | 674 | 674 | 681 | 690 | 690                                  | 696 | 697           | 697 | 688  |    |  |
| 11       | Q      | 695       | 690 | 687 | 685 | 689 | 690 | 690 | 689 | 690 | 690 | 691 | 690 | 690 | 689 | 683 | 674 | 669 | 672 | 679 | 687 | 691                                  | 694 | 694           | 694 | 687  |    |  |
| 12       | Q      | 690       | 693 | 693 | 691 | 690 | 691 | 691 | 692 | 694 | 695 | 695 | 694 | 690 | 685 | 679 | 673 | 671 | 678 | 684 | 694 | 696                                  | 700 | 700           | 701 | 690  |    |  |
| 13       | U      | 703       | 701 | 701 | 685 | 666 | 667 | 670 | 684 | 678 | 685 | 685 | 684 | 673 | 684 | 679 | 668 | 668 | 667 | 669 | 670 | 678                                  | 685 | 690           | 692 | 680  |    |  |
| 14       | U      | 686       | 686 | 690 | 684 | 673 | 674 | 679 | 671 | 665 | 674 | 678 | 678 | 683 | 668 | 587 | 532 | 582 | 628 | 640 | 636 | 641                                  | 641 | 647           | 646 | 653  |    |  |
| 15       |        | 646       | 625 | 641 | 641 | 647 | 642 | 643 | 646 | 651 | 652 | 657 | 662 | 662 | 657 | 658 | 656 | 638 | 625 | 645 | 658 | 657                                  | 662 | 663           | 666 | 650  |    |  |
| 16       |        | 669       | 668 | 668 | 667 | 668 | 664 | 669 | 667 | 664 | 668 | 669 | 669 | 673 | 668 | 663 | 653 | 652 | 663 | 679 | 684 | 685                                  | 683 | 683           | 679 | 670  |    |  |
| 17       |        | 675       | 674 | 679 | 684 | 679 | 679 | 679 | 680 | 680 | 684 | 685 | 686 | 686 | 685 | 673 | 658 | 662 | 658 | 665 | 673 | 678                                  | 674 | 668           | 683 | 676  |    |  |
| 18       |        | 684       | 684 | 683 | 680 | 673 | 673 | 673 | 674 | 674 | 678 | 678 | 679 | 679 | 676 | 673 | 668 | 668 | 668 | 668 | 674 | 682                                  | 684 | 690           | 687 | 678  |    |  |
| 19       |        | 684       | 683 | 678 | 678 | 678 | 678 | 679 | 682 | 682 | 683 | 684 | 684 | 683 | 677 | 667 | 662 | 664 | 668 | 673 | 679 | 679                                  | 688 | 688           | 679 | 679  |    |  |
| 20       |        | 688       | 688 | 683 | 683 | 680 | 681 | 682 | 683 | 684 | 685 | 688 | 688 | 684 | 677 | 672 | 657 | 658 | 662 | 670 | 664 | 657                                  | 668 | 678           | 673 | 676  |    |  |
| 21       |        | 666       | 661 | 669 | 673 | 672 | 673 | 675 | 678 | 679 | 678 | 683 | 684 | 683 | 677 | 666 | 645 | 640 | 650 | 667 | 666 | 673                                  | 679 | 678           | 681 | 671  |    |  |
| 22       |        | 678       | 683 | 678 | 678 | 684 | 679 | 678 | 678 | 679 | 684 | 685 | 686 | 678 | 673 | 668 | 673 | 663 | 658 | 661 | 662 | 662                                  | 662 | 667           | 666 | 673  |    |  |
| 23       |        | 673       | 678 | 679 | 678 | 680 | 682 | 684 | 684 | 684 | 684 | 683 | 678 | 678 | 674 | 671 | 667 | 657 | 656 | 666 | 677 | 683                                  | 687 | 684           | 687 | 677  |    |  |
| 24       |        | 678       | 684 | 688 | 689 | 690 | 673 | 671 | 650 | 662 | 668 | 668 | 681 | 679 | 673 | 668 | 666 | 662 | 666 | 668 | 672 | 672                                  | 677 | 679           | 682 | 674  |    |  |
| 25       |        | 677       | 682 | 687 | 682 | 677 | 677 | 671 | 683 | 672 | 684 | 676 | 693 | 699 | 683 | 688 | 677 | 665 | 664 | 666 | 682 | 689                                  | 688 | 688           | 670 | 680  |    |  |
| 26       | U      | 656       | 650 | 660 | 672 | 670 | 672 | 677 | 676 | 676 | 666 | 663 | 681 | 683 | 676 | 671 | 624 | 636 | 644 | 650 | 660 | 666                                  | 660 | 628           | 648 | 661  |    |  |
| 27       | U      | 655       | 657 | 671 | 666 | 671 | 666 | 668 | 661 | 651 | 650 | 665 | 682 | 681 | 661 | 677 | 666 | 644 | 630 | 638 | 655 | 661                                  | 660 | 677           | 671 | 662  |    |  |
| 28       |        | 688       | 682 | 677 | 676 | 684 | 677 | 676 | 676 | 671 | 676 | 682 | 679 | 679 | 672 | 656 | 663 | 655 | 644 | 654 | 658 | 676                                  | 678 | 678           | 676 | 672  |    |  |
| 29       |        | 681       | 677 | 684 | 681 | 672 | 676 | 677 | 677 | 676 | 676 | 687 | 688 | 688 | 682 | 671 | 662 | 656 | 653 | 655 | 671 | 678                                  | 683 | 683           | 687 | 676  |    |  |
| 30       |        | 684       | 682 | 687 | 688 | 692 | 686 | 682 | 680 | 678 | 678 | 681 | 683 | 682 | 676 | 670 | 657 | 640 | 646 | 656 | 666 | 677                                  | 684 | 688           | 688 | 676  |    |  |
| 31       | Q      | 684       | 682 | 682 | 681 | 681 | 684 | 687 | 687 | 687 | 687 | 691 | 692 | 687 | 682 | 674 | 661 | 655 | 659 | 669 | 681 | 691                                  | 697 | 698           | 697 | 682  |    |  |
| MEAN ALL |        | 680       | 678 | 679 | 679 | 678 | 677 | 678 | 678 | 677 | 679 | 682 | 684 | 683 | 677 | 669 | 659 | 656 | 658 | 664 | 672 | 677                                  | 680 | 681           | 682 | 675  |    |  |
| MEAN Q   |        | 688       | 688 | 687 | 686 | 686 | 687 | 688 | 688 | 689 | 690 | 691 | 692 | 690 | 685 | 679 | 673 | 669 | 673 | 680 | 689 | 694                                  | 697 | 697           | 696 | 687  |    |  |
| MEAN U   |        | 677       | 675 | 680 | 678 | 672 | 672 | 675 | 672 | 668 | 671 | 675 | 682 | 680 | 673 | 656 | 630 | 636 | 643 | 644 | 651 | 661                                  | 663 | 663           | 666 | 665  |    |  |

## DECLINATION

| TABLE 35 |           | AGINCOURT |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | D = 7 DEGREES WEST + TABULAR VALUES IN MINUTES |      | DECEMBER 1966 |      |      |  |
|----------|-----------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------|---------------|------|------|--|
| DAY      | HOURLY UT | 0         | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22            | 23   | MEAN |  |
|          | UT        | T0        | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0   | T0            | T0   | T0   |  |
|          |           | 1         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23            | 24   |      |  |
| 1        |           | 32.8      | 31.9 | 29.5 | 34.0 | 39.8 | 31.6 | 32.7 | 38.0 | 36.2 | 33.8 | 34.5 | 32.8 | 32.9 | 33.7 | 34.6 | 37.0 | 38.0 | 39.1 | 38.8 | 39.3 | 36.6   | 35.9 | 34.9          | 34.0 | 35.1 |  |
| 2        |           | 32.6      | 31.4 | 32.8 | 31.4 | 33.8 | 34.6 | 34.5 | 34.1 | 34.6 | 33.7 | 32.8 | 32.7 | 31.9 | 30.7 | 30.6 | 34.5 | 36.9 | 39.3 | 40.1 | 39.1 | 37.9   | 35.9 | 34.8          | 33.9 | 34.4 |  |
| 3        | U         | 33.5      | 32.9 | 32.8 | 33.5 | 34.4 | 33.9 | 34.2 | 34.8 | 34.2 | 33.8 | 34.8 | 33.5 | 31.7 | 30.7 | 30.4 | 32.9 | 34.9 | 36.9 | 37.8 | 37.5 | 36.7   | 35.0 | 34.0          | 33.5 | 34.1 |  |
| 4        |           | 32.9      | 32.9 | 33.0 | 33.5 | 33.9 | 33.9 | 33.0 | 38.3 | 32.6 | 27.6 | 26.1 | 29.2 | 30.7 | 31.6 | 30.8 | 33.8 | 35.6 | 38.3 | 40.4 | 42.1 | 36.6   | 37.4 | 34.9          | 32.1 | 33.8 |  |
| 5        | U         | 34.9      | 30.5 | 31.7 | 31.8 | 32.8 | 32.9 | 32.7 | 31.6 | 32.7 | 32.7 | 32.8 | 33.0 | 32.9 | 31.6 | 31.7 | 33.6 | 36.0 | 39.2 | 43.4 | 44.6 | 42.1   | 40.5 | 37.5          | 36.0 | 35.0 |  |
| 6        |           | 34.3      | 33.0 | 31.6 | 32.8 | 33.0 | 33.1 | 33.9 | 34.5 | 33.8 | 32.9 | 33.9 | 33.4 | 33.4 | 32.2 | 32.0 | 32.7 | 34.9 | 37.1 | 39.2 | 38.6 | 37.1   | 35.9 | 35.0          | 34.8 | 34.3 |  |
| 7        |           | 34.5      | 34.5 | 34.0 | 33.6 | 33.9 | 34.0 | 34.7 | 34.4 | 34.0 | 33.9 | 33.1 | 33.2 | 33.0 | 32.6 | 31.8 | 32.7 | 34.7 | 36.9 | 38.1 | 38.1 | 36.5   | 35.6 | 34.9          | 34.4 | 34.5 |  |
| 8        |           | 33.9      | 33.9 | 33.8 | 34.0 | 34.2 | 34.1 | 34.7 | 34.0 | 33.6 | 33.6 | 32.1 | 32.6 | 32.1 | 32.6 | 32.9 | 35.9 | 37.0 | 37.9 | 37.9 | 37.0 | 36.2   | 36.0 | 35.7          | 34.9 | 34.6 |  |
| 9        | U         | 33.9      | 33.9 | 32.9 | 33.6 | 33.6 | 33.9 | 34.0 | 34.5 | 33.6 | 32.9 | 32.8 | 32.9 | 32.8 | 32.9 | 33.2 | 34.9 | 36.8 | 37.3 | 37.9 | 35.9 | 34.9   | 34.8 | 34.9          | 34.7 | 34.3 |  |
| 10       |           | 33.9      | 33.8 | 33.8 | 33.8 | 33.8 | 33.9 | 33.9 | 32.9 | 31.5 | 31.6 | 32.9 | 33.0 | 32.9 | 32.8 | 32.7 | 33.6 | 35.0 | 37.0 | 37.6 | 37.4 | 37.4   | 36.1 | 34.7          | 34.1 | 34.2 |  |
| 11       | U         | 33.9      | 33.6 | 33.9 | 33.6 | 34.0 | 34.1 | 34.0 | 34.0 | 33.8 | 33.2 | 32.8 | 32.8 | 32.4 | 32.0 | 32.8 | 33.6 | 35.1 | 37.0 | 37.3 | 37.0 | 36.0   | 35.0 | 34.7          | 34.0 | 34.2 |  |
| 12       | U         | 33.9      | 33.9 | 33.9 | 33.8 | 33.9 | 34.0 | 34.2 | 34.1 | 33.9 | 33.9 | 33.1 | 32.9 | 32.8 | 32.7 | 32.7 | 33.8 | 35.8 | 37.0 | 37.3 | 36.4 | 35.1   | 34.9 | 34.7          | 33.2 | 34.2 |  |
| 13       | U         | 32.8      | 32.1 | 31.7 | 32.9 | 28.6 | 32.8 | 37.3 | 31.5 | 31.6 | 31.6 | 31.6 | 31.5 | 31.1 | 33.1 | 28.6 | 34.2 | 39.5 | 39.1 | 39.2 | 38.2 | 37.0   | 36.0 | 34.9          | 34.2 | 33.8 |  |
| 14       | U         | 34.1      | 33.7 | 32.9 | 33.1 | 36.0 | 36.1 | 35.0 | 33.6 | 36.0 | 30.9 | 31.6 | 31.6 | 30.6 | 30.5 | 45.8 | 39.3 | 48.8 | 44.5 | 41.2 | 40.3 | 38.3   | 38.4 | 39.4          | 26.4 | 36.2 |  |
| 15       |           | 28.7      | 29.6 | 30.5 | 29.7 | 29.5 | 33.1 | 35.0 | 34.7 | 34.3 | 34.3 | 34.1 | 33.1 | 34.0 | 32.2 | 31.9 | 32.8 | 37.0 | 38.9 | 39.9 | 39.5 | 38.8   | 37.2 | 35.2          | 34.0 | 34.1 |  |
| 16       |           | 31.8      | 34.1 | 33.9 | 34.1 | 34.2 | 37.0 | 38.0 | 36.1 | 35.1 | 35.9 | 33.9 | 34.2 | 33.7 | 31.9 | 32.1 | 33.0 | 35.9 | 38.2 | 39.3 | 38.4 | 36.9   | 36.2 | 35.0          | 34.7 | 35.1 |  |
| 17       |           | 34.0      | 33.2 | 32.1 | 31.6 | 34.8 | 35.1 | 35.7 | 35.7 | 35.6 | 35.1 | 35.3 | 34.5 | 33.3 | 31.8 | 32.8 | 35.2 | 38.9 | 41.3 | 41.6 | 40.6 | 39.5   | 39.2 | 36.2          | 34.8 | 35.7 |  |
| 18       |           | 34.1      | 33.0 | 32.9 | 32.9 | 33.1 | 32.9 | 32.8 | 32.9 | 33.2 | 34.1 | 33.6 | 33.7 | 33.0 | 32.8 | 32.1 | 33.0 | 35.0 | 37.1 | 38.9 | 38.2 | 37.4   | 36.1 | 35.7          | 35.3 | 34.3 |  |
| 19       |           | 34.9      | 34.7 | 34.1 | 33.0 | 33.2 | 33.7 | 34.1 | 34.6 | 34.6 | 34.3 | 34.1 | 34.0 | 34.0 | 32.9 | 31.6 | 31.8 | 33.7 | 36.1 | 38.1 | 38.2 | 38.0   | 37.4 | 36.9          | 35.2 | 34.7 |  |
| 20       |           | 34.3      | 33.9 | 33.1 | 33.1 | 33.9 | 34.0 | 34.2 | 34.8 | 35.0 | 34.7 | 34.0 | 33.4 | 33.1 | 31.9 | 32.9 | 32.7 | 35.9 | 38.2 | 39.3 | 39.4 | 39.3   | 38.9 | 38.0          | 35.6 | 35.1 |  |
| 21       |           | 33.0      | 33.7 | 34.0 | 34.0 | 33.1 | 34.1 | 32.7 | 34.8 | 34.1 | 34.0 | 37.2 | 34.8 | 33.0 | 31.8 | 30.8 | 32.6 | 36.1 | 39.5 | 41.2 | 40.5 | 39.6   | 37.1 | 38.2          | 35.9 | 35.2 |  |
| 22       |           | 34.2      | 33.1 | 33.6 | 34.0 | 34.1 | 32.5 | 32.8 | 34.1 | 32.9 | 32.7 | 32.9 | 32.1 | 32.4 | 30.8 | 30.9 | 34.0 | 36.7 | 38.1 | 39.0 | 39.0 | 38.0   | 39.3 | 33.9          | 36.1 | 34.5 |  |
| 23       |           | 34.0      | 33.7 | 33.1 | 33.7 | 34.1 | 34.8 | 34.9 | 34.4 | 34.1 | 34.1 | 34.1 | 34.8 | 33.9 | 32.9 | 31.9 | 32.8 | 37.2 | 39.4 | 39.5 | 39.3 | 38.1   | 36.9 | 35.1          | 34.7 | 35.1 |  |
| 24       |           | 34.3      | 31.8 | 33.8 | 33.1 | 33.2 | 36.2 | 33.4 | 43.6 | 35.4 | 31.1 | 34.2 | 35.3 | 33.3 | 32.2 | 32.8 | 34.3 | 37.1 | 38.4 | 38.3 | 37.2 | 37.0   | 36.2 | 35.3          | 35.0 | 35.1 |  |
| 25       |           | 34.1      | 30.8 | 33.3 | 34.9 | 34.3 | 35.7 | 34.9 | 37.5 | 34.9 | 37.0 | 36.0 | 36.3 | 34.8 | 36.2 | 36.8 | 36.8 | 38.0 | 40.0 | 39.4 | 37.6 | 37.0   | 35.3 | 34.4          | 35.9 | 35.9 |  |
| 26       | U         | 33.1      | 28.9 | 32.3 | 34.2 | 34.4 | 34.7 | 34.1 | 31.9 | 35.0 | 34.2 | 38.0 | 37.2 | 36.1 | 34.8 | 32.2 | 40.3 | 42.5 | 40.6 | 40.6 | 38.2 | 38.3   | 38.4 | 37.7          | 32.2 | 35.8 |  |
| 27       | U         | 33.1      | 29.6 | 30.1 | 31.1 | 30.7 | 44.4 | 40.0 | 34.1 | 33.2 | 40.1 | 38.2 | 40.6 | 41.5 | 40.4 | 35.3 | 36.2 | 38.0 | 39.4 | 38.3 | 39.9 | 38.5   | 30.9 | 31.0          | 34.6 | 36.2 |  |
| 28       |           | 31.7      | 33.2 | 34.0 | 34.1 | 33.4 | 35.1 | 35.3 | 38.1 | 38.3 | 36.2 | 36.2 | 37.2 | 35.0 | 35.3 | 35.3 | 36.1 | 37.8 | 41.3 | 41.7 | 38.5 | 38.3   | 36.8 | 35.3          | 32.0 | 36.1 |  |
| 29       |           | 34.8      | 34.2 | 34.9 | 33.2 | 34.9 | 35.9 | 36.0 | 36.0 | 36.8 | 36.6 | 34.3 | 34.2 | 34.0 | 33.0 | 32.8 | 33.2 | 35.7 | 38.3 | 39.3 | 38.9 | 37.2   | 36.3 | 35.3          | 35.0 | 35.4 |  |
| 30       |           | 34.1      | 33.8 | 33.0 | 33.2 | 33.8 | 35.3 | 35.9 | 36.1 | 35.9 | 34.4 | 34.2 | 33.7 | 34.1 | 34.0 | 31.9 | 33.7 | 35.2 | 38.2 | 38.7 | 38.4 | 37.8   | 36.7 | 35.2          | 34.6 | 35.1 |  |
| 31       | U         | 34.1      | 34.1 | 33.7 | 34.1 | 34.9 | 35.2 | 36.3 | 35.1 | 34.1 | 34.0 | 33.1 | 33.3 | 33.2 | 31.8 | 30.7 | 33.2 | 36.2 | 39.1 | 40.4 | 39.7 | 38.1   | 36.3 | 35.0          | 34.1 | 35.0 |  |
| MEAN ALL |           | 33.5      | 32.8 | 32.9 | 33.2 | 33.7 | 34.6 | 34.7 | 35.0 | 34.3 | 33.8 | 33.8 | 33.8 | 33.3 | 32.8 | 32.8 | 34.3 | 37.0 | 38.7 | 39.3 | 38.8 | 37.6   | 36.5 | 35.4          | 34.2 | 34.9 |  |
| MEAN U   |           | 33.8      | 33.7 | 33.4 | 33.7 | 34.2 | 34.2 | 34.5 | 34.5 | 33.9 | 33.5 | 33.3 | 33.1 | 32.6 | 32.0 | 32.0 | 33.7 | 35.8 | 37.5 | 38.1 | 37.3 | 36.2   | 35.2 | 34.7          | 33.9 | 34.4 |  |
| MEAN D   |           | 33.6      | 30.9 | 31.8 | 32.6 | 32.5 | 36.2 | 35.8 | 32.6 | 33.7 | 33.9 | 34.4 | 34.8 | 34.4 | 34.1 | 34.7 | 36.7 | 41.0 | 40.5 | 40.5 | 40.2 | 38.9   | 36.8 | 36.1          | 32.7 | 35.4 |  |



## VERTICAL INTENSITY

| TABLE 36 |        | AGINCOURT |    |    |    |    |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    | Z = 56000 + TABULAR VALUES IN GAMMAS |    | DECEMBER 1966 |    |      |  |  |
|----------|--------|-----------|----|----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|--------------------------------------|----|---------------|----|------|--|--|
| DAY      | HOURLY | 0         | 1  | 2  | 3  | 4  | 5   | 6   | 7   | 8   | 9   | 10  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20                                   | 21 | 22            | 23 | MEAN |  |  |
|          | UT     | T0        | T0 | T0 | T0 | T0 | T0  | T0  | T0  | T0  | T0  | T0  | T0 | T0 | T0 | T0 | T0 | T0 | T0 | T0 | T0 | T0                                   | T0 | T0            | T0 |      |  |  |
|          |        | 1         | 2  | 3  | 4  | 5  | 6   | 7   | 8   | 9   | 10  | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21                                   | 22 | 23            | 24 |      |  |  |
| 1        |        | 31        | 30 | 29 | 25 | -8 | 8   | 12  | 18  | 24  | 19  | 21  | 20 | 21 | 23 | 22 | 19 | 20 | 21 | 25 | 30 | 30                                   | 33 | 30            | 29 | 22   |  |  |
| 2        |        | 27        | 27 | 27 | 25 | 24 | 23  | 21  | 21  | 21  | 21  | 21  | 22 | 25 | 26 | 21 | 20 | 20 | 21 | 26 | 27 | 26                                   | 26 | 26            | 26 | 24   |  |  |
| 3        | Q      | 26        | 25 | 24 | 22 | 22 | 21  | 21  | 20  | 20  | 20  | 20  | 19 | 19 | 19 | 15 | 13 | 14 | 16 | 20 | 24 | 25                                   | 21 | 21            | 20 | 20   |  |  |
| 4        |        | 20        | 20 | 20 | 20 | 19 | 16  | 15  | -20 | -40 | -25 | -12 | 5  | 8  | 9  | 8  | 9  | 9  | 13 | 20 | 27 | 31                                   | 31 | 32            | 29 | 11   |  |  |
| 5        | U      | 27        | 27 | 26 | 27 | 25 | 9   | 13  | 8   | 10  | 8   | 18  | 21 | 22 | 21 | 17 | 16 | 17 | 20 | 28 | 43 | 48                                   | 40 | 37            | 33 | 23   |  |  |
| 6        |        | 37        | 33 | 34 | 32 | 28 | 27  | 26  | 24  | 23  | 22  | 23  | 23 | 22 | 21 | 12 | 10 | 11 | 10 | 16 | 22 | 23                                   | 25 | 24            | 22 | 23   |  |  |
| 7        |        | 22        | 22 | 22 | 22 | 21 | 21  | 21  | 21  | 21  | 21  | 20  | 20 | 18 | 16 | 14 | 10 | 11 | 14 | 19 | 22 | 21                                   | 21 | 21            | 21 | 19   |  |  |
| 8        |        | 20        | 18 | 18 | 19 | 19 | 18  | 18  | 18  | 18  | 17  | 17  | 17 | 15 | 11 | 6  | 11 | 15 | 17 | 22 | 22 | 21                                   | 21 | 18            | 18 | 17   |  |  |
| 9        | Q      | 18        | 17 | 17 | 17 | 17 | 17  | 17  | 16  | 17  | 17  | 16  | 16 | 15 | 12 | 10 | 7  | 10 | 12 | 15 | 16 | 13                                   | 15 | 17            | 15 | 15   |  |  |
| 10       |        | 15        | 15 | 15 | 15 | 14 | 15  | 15  | 12  | 12  | 12  | 12  | 13 | 15 | 14 | 12 | 9  | 8  | 10 | 15 | 15 | 17                                   | 17 | 16            | 15 | 14   |  |  |
| 11       | Q      | 16        | 16 | 17 | 18 | 18 | 18  | 16  | 16  | 17  | 17  | 16  | 16 | 15 | 13 | 13 | 12 | 12 | 13 | 18 | 23 | 22                                   | 19 | 19            | 19 | 17   |  |  |
| 12       | Q      | 18        | 18 | 18 | 18 | 18 | 16  | 16  | 16  | 16  | 16  | 16  | 14 | 14 | 13 | 12 | 11 | 12 | 18 | 22 | 22 | 18                                   | 18 | 18            | 14 | 16   |  |  |
| 13       | U      | 14        | 14 | 13 | 16 | 25 | 22  | -3  | -6  | 11  | 12  | 14  | 13 | 13 | 8  | -4 | -7 | 0  | 12 | 23 | 23 | 23                                   | 23 | 22            | 19 | 12   |  |  |
| 14       | U      | 19        | 20 | 20 | 19 | 35 | 42  | 37  | 35  | 29  | 24  | 24  | 20 | 24 | 16 | 13 | 21 | 17 | 53 | 59 | 62 | 52                                   | 47 | 52            | 68 | 34   |  |  |
| 15       |        | 53        | 76 | 63 | 47 | 37 | 35  | 38  | 37  | 35  | 31  | 31  | 30 | 30 | 30 | 26 | 23 | 25 | 35 | 40 | 37 | 35                                   | 36 | 35            | 35 | 38   |  |  |
| 16       |        | 34        | 34 | 30 | 30 | 29 | 24  | 19  | 23  | 24  | 28  | 28  | 29 | 30 | 29 | 23 | 18 | 21 | 20 | 23 | 24 | 24                                   | 25 | 26            | 26 | 26   |  |  |
| 17       |        | 26        | 26 | 26 | 24 | 25 | 25  | 25  | 25  | 25  | 24  | 20  | 15 | 15 | 15 | 10 | 9  | 9  | 13 | 21 | 26 | 29                                   | 29 | 27            | 28 | 21   |  |  |
| 18       |        | 25        | 25 | 25 | 26 | 26 | 26  | 24  | 24  | 24  | 25  | 25  | 24 | 23 | 20 | 18 | 19 | 20 | 25 | 30 | 26 | 25                                   | 26 | 25            | 24 | 24   |  |  |
| 19       |        | 25        | 25 | 26 | 25 | 26 | 25  | 25  | 24  | 24  | 24  | 22  | 22 | 24 | 21 | 20 | 20 | 20 | 20 | 25 | 26 | 26                                   | 26 | 26            | 25 | 23   |  |  |
| 20       |        | 23        | 23 | 21 | 22 | 23 | 24  | 24  | 24  | 24  | 22  | 20  | 21 | 23 | 21 | 20 | 19 | 20 | 25 | 27 | 30 | 31                                   | 31 | 32            | 31 | 24   |  |  |
| 21       |        | 32        | 32 | 31 | 26 | 22 | 9   | 15  | 23  | 24  | 21  | 20  | 20 | 22 | 22 | 21 | 17 | 17 | 20 | 26 | 31 | 30                                   | 32 | 33            | 32 | 24   |  |  |
| 22       |        | 31        | 29 | 27 | 27 | 27 | 21  | 22  | 25  | 22  | 21  | 21  | 21 | 21 | 20 | 16 | 15 | 14 | 21 | 25 | 28 | 31                                   | 36 | 40            | 39 | 25   |  |  |
| 23       |        | 37        | 32 | 28 | 27 | 27 | 26  | 26  | 25  | 24  | 22  | 21  | 22 | 23 | 22 | 17 | 9  | 9  | 14 | 21 | 25 | 25                                   | 27 | 26            | 26 | 23   |  |  |
| 24       |        | 27        | 31 | 29 | 28 | 27 | 28  | 14  | 1   | -22 | -2  | 10  | 20 | 23 | 20 | 17 | 17 | 19 | 22 | 22 | 25 | 26                                   | 28 | 27            | 26 | 19   |  |  |
| 25       |        | 25        | 24 | 22 | 22 | 21 | 18  | 11  | 15  | 12  | 8   | 5   | 11 | 14 | 14 | 12 | 10 | 10 | 15 | 17 | 23 | 23                                   | 24 | 23            | 26 | 17   |  |  |
| 26       | U      | 35        | 45 | 48 | 34 | 28 | 24  | 13  | 1   | -1  | -0  | -1  | 7  | 13 | 17 | 22 | 21 | 29 | 28 | 34 | 38 | 35                                   | 41 | 52            | 55 | 26   |  |  |
| 27       | U      | 51        | 38 | 30 | 32 | 11 | -44 | -17 | 1   | -5  | -1  | -0  | 7  | 7  | 19 | 22 | 18 | 17 | 28 | 40 | 40 | 40                                   | 45 | 41            | 35 | 19   |  |  |
| 28       |        | 35        | 30 | 25 | 25 | 22 | 22  | 22  | 15  | 11  | 12  | 17  | 18 | 25 | 24 | 28 | 26 | 24 | 26 | 32 | 35 | 36                                   | 34 | 30            | 31 | 25   |  |  |
| 29       |        | 30        | 30 | 25 | 24 | 24 | 24  | 22  | 22  | 19  | 22  | 24  | 24 | 24 | 24 | 22 | 24 | 24 | 25 | 28 | 30 | 30                                   | 28 | 25            | 25 | 25   |  |  |
| 30       |        | 24        | 24 | 23 | 19 | 17 | 17  | 17  | 18  | 19  | 19  | 20  | 19 | 20 | 22 | 19 | 18 | 18 | 23 | 24 | 29 | 29                                   | 29 | 25            | 24 | 22   |  |  |
| 31       | Q      | 24        | 24 | 23 | 22 | 22 | 20  | 18  | 17  | 19  | 19  | 19  | 19 | 20 | 22 | 22 | 20 | 19 | 20 | 25 | 29 | 27                                   | 24 | 22            | 18 | 21   |  |  |
| MEAN ALL |        | 27        | 27 | 26 | 24 | 22 | 19  | 18  | 17  | 15  | 16  | 17  | 18 | 20 | 19 | 16 | 15 | 16 | 20 | 25 | 29 | 28                                   | 28 | 28            | 28 | 22   |  |  |
| MEAN Q   |        | 20        | 20 | 20 | 19 | 19 | 18  | 18  | 17  | 18  | 18  | 18  | 17 | 17 | 16 | 14 | 13 | 13 | 16 | 20 | 23 | 21                                   | 19 | 19            | 17 | 18   |  |  |
| MEAN U   |        | 29        | 29 | 27 | 26 | 25 | 10  | 9   | 8   | 9   | 8   | 11  | 13 | 16 | 16 | 14 | 14 | 16 | 28 | 37 | 41 | 40                                   | 39 | 41            | 42 | 23   |  |  |

MEAN VALUES OF MAGNETIC ELEMENTS  
HORIZONTAL INTENSITY (ALL DAYS)

Table 37 Agincourt

15,500  $\gamma$  +

1966

| U.T.  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year | Summer | Equinox | Winter |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|---------|--------|
| 0-1   | 627 | 631 | 633 | 647 | 655 | 664 | 672 | 672 | 652 | 672 | 678 | 680 | 657  | 666    | 651     | 654    |
| 1-2   | 626 | 629 | 632 | 646 | 653 | 664 | 668 | 669 | 640 | 672 | 678 | 678 | 655  | 664    | 648     | 653    |
| 2-3   | 626 | 629 | 630 | 644 | 653 | 664 | 666 | 668 | 648 | 670 | 677 | 679 | 654  | 663    | 648     | 653    |
| 3-4   | 626 | 629 | 629 | 645 | 652 | 662 | 665 | 667 | 643 | 671 | 676 | 679 | 654  | 662    | 647     | 653    |
| 4-5   | 624 | 628 | 629 | 646 | 650 | 661 | 662 | 670 | 643 | 670 | 676 | 678 | 653  | 661    | 647     | 652    |
| 5-6   | 624 | 627 | 629 | 645 | 651 | 661 | 658 | 670 | 643 | 667 | 676 | 677 | 652  | 660    | 646     | 651    |
| 6-7   | 625 | 628 | 625 | 644 | 652 | 660 | 652 | 669 | 642 | 669 | 676 | 678 | 652  | 658    | 645     | 652    |
| 7-8   | 625 | 628 | 627 | 645 | 652 | 659 | 654 | 668 | 648 | 669 | 675 | 678 | 652  | 658    | 647     | 652    |
| 8-9   | 627 | 629 | 631 | 645 | 652 | 661 | 656 | 667 | 647 | 669 | 678 | 677 | 653  | 659    | 648     | 653    |
| 9-10  | 628 | 628 | 634 | 645 | 652 | 660 | 657 | 667 | 643 | 673 | 678 | 679 | 654  | 659    | 649     | 653    |
| 10-11 | 629 | 633 | 635 | 646 | 649 | 661 | 661 | 666 | 639 | 676 | 679 | 682 | 655  | 659    | 649     | 656    |
| 11-12 | 631 | 634 | 632 | 645 | 649 | 661 | 659 | 664 | 647 | 674 | 681 | 684 | 655  | 658    | 650     | 658    |
| 12-13 | 630 | 632 | 628 | 640 | 642 | 657 | 655 | 659 | 640 | 669 | 678 | 683 | 651  | 653    | 644     | 656    |
| 13-14 | 626 | 628 | 624 | 630 | 634 | 648 | 646 | 648 | 631 | 656 | 669 | 677 | 643  | 644    | 635     | 650    |
| 14-15 | 622 | 623 | 615 | 619 | 627 | 639 | 636 | 638 | 622 | 645 | 661 | 669 | 635  | 635    | 625     | 644    |
| 15-16 | 616 | 620 | 605 | 615 | 625 | 637 | 633 | 636 | 617 | 638 | 655 | 659 | 630  | 633    | 619     | 638    |
| 16-17 | 610 | 619 | 604 | 619 | 631 | 644 | 640 | 642 | 624 | 638 | 655 | 656 | 632  | 639    | 621     | 635    |
| 17-18 | 609 | 624 | 609 | 628 | 645 | 656 | 653 | 653 | 639 | 645 | 659 | 658 | 640  | 652    | 630     | 638    |
| 18-19 | 614 | 628 | 618 | 637 | 661 | 666 | 668 | 665 | 656 | 657 | 667 | 664 | 650  | 665    | 642     | 643    |
| 19-20 | 619 | 631 | 630 | 645 | 675 | 673 | 674 | 679 | 668 | 665 | 675 | 672 | 659  | 675    | 652     | 649    |
| 20-21 | 623 | 629 | 635 | 651 | 675 | 677 | 681 | 686 | 674 | 669 | 680 | 677 | 663  | 680    | 657     | 652    |
| 21-22 | 627 | 630 | 637 | 654 | 670 | 675 | 679 | 689 | 680 | 671 | 680 | 680 | 664  | 678    | 661     | 654    |
| 22-23 | 630 | 631 | 635 | 652 | 667 | 672 | 681 | 686 | 675 | 671 | 681 | 681 | 664  | 677    | 658     | 656    |
| 23-24 | 629 | 632 | 634 | 650 | 659 | 668 | 676 | 678 | 667 | 672 | 681 | 682 | 661  | 670    | 656     | 656    |
| Mean  | 624 | 628 | 627 | 641 | 651 | 660 | 661 | 666 | 647 | 665 | 674 | 675 | 652  | 660    | 645     | 650    |

MEAN VALUES OF MAGNETIC ELEMENTS  
DECLINATION (ALL DAYS)

Table 38 Agincourt

7° W + ...'

1966

| U.T.  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Year | Summer | Equinox | Winter |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|---------|--------|
| 0-1   | 31.1 | 31.9 | 32.9 | 32.6 | 32.8 | 32.9 | 32.5 | 33.5 | 34.6 | 33.8 | 32.7 | 33.5 | 32.9 | 32.9   | 33.5    | 32.3   |
| 1-2   | 30.8 | 31.3 | 32.1 | 32.3 | 32.7 | 32.8 | 32.7 | 32.4 | 35.0 | 33.4 | 32.8 | 32.8 | 32.6 | 32.7   | 33.2    | 31.9   |
| 2-3   | 30.3 | 31.2 | 31.4 | 31.7 | 32.5 | 32.7 | 32.3 | 31.9 | 33.4 | 32.5 | 32.7 | 32.9 | 32.1 | 32.4   | 32.3    | 31.8   |
| 3-4   | 30.7 | 31.2 | 31.5 | 32.2 | 32.2 | 32.0 | 32.2 | 32.4 | 34.7 | 32.9 | 32.9 | 33.2 | 32.3 | 32.2   | 32.8    | 32.0   |
| 4-5   | 30.8 | 31.3 | 31.6 | 32.4 | 32.5 | 32.1 | 32.7 | 32.3 | 34.0 | 33.1 | 33.3 | 33.7 | 32.5 | 32.4   | 32.8    | 32.3   |
| 5-6   | 31.3 | 31.8 | 31.8 | 31.7 | 32.4 | 32.5 | 32.2 | 32.9 | 35.1 | 33.2 | 33.5 | 34.6 | 32.8 | 32.5   | 33.0    | 32.8   |
| 6-7   | 32.2 | 32.0 | 32.5 | 31.6 | 32.3 | 32.4 | 32.2 | 33.0 | 35.2 | 33.1 | 34.7 | 34.7 | 33.0 | 32.5   | 33.1    | 33.4   |
| 7-8   | 31.9 | 32.0 | 32.0 | 31.6 | 31.9 | 32.0 | 31.7 | 33.1 | 33.9 | 33.0 | 34.6 | 35.0 | 32.7 | 32.2   | 32.6    | 33.4   |
| 8-9   | 31.7 | 31.8 | 31.1 | 30.9 | 32.1 | 32.0 | 31.6 | 32.8 | 31.7 | 33.2 | 33.7 | 34.3 | 32.2 | 32.1   | 31.7    | 32.9   |
| 9-10  | 31.3 | 31.9 | 30.6 | 30.4 | 31.3 | 31.3 | 31.7 | 31.7 | 32.6 | 33.1 | 33.4 | 33.8 | 31.9 | 31.5   | 31.7    | 32.6   |
| 10-11 | 31.2 | 31.2 | 32.4 | 29.8 | 30.1 | 29.5 | 29.0 | 30.3 | 32.5 | 33.2 | 33.5 | 33.8 | 31.4 | 29.7   | 32.0    | 32.4   |
| 11-12 | 31.0 | 30.9 | 31.5 | 28.5 | 27.7 | 27.4 | 27.5 | 27.7 | 29.1 | 32.8 | 33.2 | 33.8 | 30.1 | 27.6   | 30.5    | 32.2   |
| 12-13 | 30.9 | 31.0 | 30.6 | 27.7 | 26.7 | 25.8 | 26.1 | 26.3 | 28.3 | 31.3 | 32.2 | 33.3 | 29.2 | 26.2   | 29.5    | 31.9   |
| 13-14 | 30.5 | 30.2 | 29.1 | 28.0 | 27.4 | 26.2 | 26.1 | 25.9 | 29.5 | 30.9 | 31.3 | 32.8 | 29.0 | 26.4   | 29.4    | 31.2   |
| 14-15 | 30.6 | 30.6 | 29.6 | 29.6 | 29.7 | 28.2 | 28.6 | 28.7 | 32.5 | 31.2 | 31.4 | 32.8 | 30.3 | 28.8   | 30.7    | 31.4   |
| 15-16 | 31.3 | 32.1 | 32.3 | 32.9 | 33.7 | 31.9 | 32.4 | 33.6 | 37.0 | 33.7 | 34.1 | 34.3 | 33.3 | 32.9   | 34.0    | 33.0   |
| 16-17 | 33.0 | 33.9 | 35.3 | 36.5 | 37.4 | 35.3 | 36.3 | 37.8 | 40.8 | 36.7 | 36.8 | 37.0 | 36.4 | 36.7   | 37.3    | 35.2   |
| 17-18 | 34.2 | 35.3 | 37.2 | 38.4 | 39.7 | 38.0 | 38.9 | 40.4 | 42.2 | 39.3 | 39.0 | 38.7 | 38.4 | 39.3   | 39.3    | 36.8   |
| 18-19 | 34.9 | 35.5 | 37.9 | 39.5 | 39.5 | 39.4 | 39.7 | 41.7 | 41.5 | 40.1 | 39.9 | 39.3 | 39.1 | 40.1   | 39.8    | 37.4   |
| 19-20 | 34.5 | 35.4 | 37.7 | 38.9 | 38.4 | 39.4 | 39.6 | 40.7 | 39.8 | 39.4 | 39.0 | 38.8 | 38.5 | 39.5   | 39.0    | 36.9   |
| 20-21 | 34.2 | 34.7 | 36.5 | 37.3 | 36.9 | 37.9 | 38.2 | 38.8 | 37.5 | 38.5 | 37.2 | 37.6 | 37.1 | 38.0   | 37.5    | 35.9   |
| 21-22 | 33.4 | 33.7 | 35.4 | 35.5 | 35.5 | 35.9 | 36.6 | 36.9 | 35.6 | 37.2 | 36.3 | 36.5 | 35.7 | 36.2   | 35.9    | 35.0   |
| 22-23 | 32.3 | 33.1 | 34.2 | 34.0 | 34.0 | 34.3 | 34.5 | 35.2 | 35.2 | 36.2 | 35.0 | 35.4 | 34.5 | 34.5   | 34.9    | 34.0   |
| 23-24 | 31.9 | 32.4 | 33.4 | 33.2 | 33.0 | 33.3 | 33.4 | 34.0 | 34.6 | 34.9 | 34.0 | 34.2 | 33.5 | 33.4   | 34.0    | 33.1   |
| Mean  | 31.9 | 32.3 | 32.9 | 32.8 | 33.0 | 32.7 | 32.9 | 33.5 | 34.9 | 34.4 | 34.5 | 34.9 | 33.4 | 33.0   | 33.8    | 33.4   |

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY (ALL DAYS)

Table 39 Agincourt

56,000  $\gamma$  +

1966

| U.T.  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year | Summer | Equinox | Winter |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|---------|--------|
| 0-1   | 37  | 34  | 40  | 35  | 32  | 33  | 37  | 34  | 41  | 30  | 26  | 27  | 34   | 34     | 37      | 31     |
| 1-2   | 37  | 33  | 41  | 33  | 31  | 30  | 33  | 30  | 31  | 29  | 25  | 27  | 32   | 31     | 34      | 31     |
| 2-3   | 36  | 33  | 38  | 31  | 29  | 27  | 29  | 23  | 24  | 27  | 24  | 26  | 29   | 27     | 30      | 30     |
| 3-4   | 36  | 32  | 35  | 28  | 26  | 26  | 23  | 20  | 35  | 23  | 23  | 24  | 28   | 24     | 30      | 29     |
| 4-5   | 35  | 30  | 31  | 25  | 21  | 25  | 12  | 19  | 20  | 19  | 21  | 22  | 23   | 19     | 24      | 27     |
| 5-6   | 35  | 27  | 28  | 25  | 22  | 24  | 12  | 16  | 17  | 16  | 18  | 19  | 22   | 19     | 22      | 25     |
| 6-7   | 32  | 27  | 23  | 24  | 22  | 23  | 6   | 17  | 11  | 16  | 15  | 18  | 20   | 17     | 19      | 23     |
| 7-8   | 32  | 25  | 21  | 25  | 21  | 24  | 8   | 15  | 20  | 12  | 15  | 17  | 20   | 17     | 20      | 22     |
| 8-9   | 32  | 25  | 18  | 25  | 20  | 25  | 14  | 16  | 19  | 14  | 16  | 15  | 20   | 19     | 19      | 22     |
| 9-10  | 32  | 24  | 17  | 26  | 20  | 27  | 17  | 21  | 18  | 14  | 15  | 16  | 21   | 21     | 19      | 22     |
| 10-11 | 31  | 26  | 16  | 28  | 17  | 27  | 23  | 21  | 17  | 15  | 16  | 17  | 21   | 22     | 19      | 23     |
| 11-12 | 31  | 27  | 20  | 28  | 21  | 24  | 23  | 21  | 21  | 19  | 17  | 18  | 22   | 22     | 22      | 23     |
| 12-13 | 32  | 29  | 23  | 27  | 21  | 24  | 25  | 18  | 24  | 21  | 19  | 20  | 24   | 22     | 24      | 25     |
| 13-14 | 32  | 28  | 26  | 25  | 21  | 22  | 26  | 18  | 23  | 21  | 19  | 19  | 23   | 22     | 24      | 25     |
| 14-15 | 30  | 25  | 24  | 22  | 20  | 20  | 24  | 17  | 24  | 20  | 15  | 16  | 21   | 20     | 23      | 22     |
| 15-16 | 28  | 24  | 23  | 19  | 19  | 17  | 22  | 17  | 27  | 19  | 14  | 15  | 20   | 19     | 22      | 20     |
| 16-17 | 29  | 25  | 25  | 19  | 19  | 16  | 21  | 16  | 29  | 19  | 16  | 16  | 21   | 18     | 23      | 22     |
| 17-18 | 32  | 28  | 29  | 22  | 21  | 17  | 22  | 17  | 37  | 22  | 19  | 20  | 24   | 19     | 28      | 25     |
| 18-19 | 35  | 30  | 34  | 25  | 29  | 20  | 26  | 23  | 43  | 25  | 24  | 25  | 28   | 25     | 32      | 29     |
| 19-20 | 38  | 33  | 40  | 30  | 40  | 25  | 29  | 28  | 50  | 27  | 27  | 29  | 33   | 31     | 37      | 32     |
| 20-21 | 38  | 34  | 41  | 35  | 41  | 29  | 31  | 35  | 52  | 29  | 27  | 28  | 35   | 34     | 39      | 32     |
| 21-22 | 38  | 35  | 40  | 38  | 44  | 31  | 33  | 39  | 52  | 30  | 26  | 28  | 36   | 37     | 40      | 32     |
| 22-23 | 38  | 35  | 40  | 38  | 43  | 33  | 36  | 39  | 44  | 31  | 26  | 28  | 36   | 38     | 38      | 32     |
| 23-24 | 37  | 35  | 40  | 37  | 41  | 34  | 37  | 39  | 41  | 33  | 26  | 28  | 36   | 38     | 38      | 32     |
| Mean  | 34  | 29  | 30  | 28  | 27  | 25  | 24  | 23  | 30  | 22  | 20  | 22  | 26   | 25     | 28      | 26     |

MEAN VALUES OF MAGNETIC ELEMENTS  
HORIZONTAL INTENSITY (QUIET DAYS)

Table 40 Agincourt

15,500  $\gamma$  +

1966

| U. T. | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year | Summer | Equinox | Winter |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|---------|--------|
| 0-1   | 630 | 635 | 634 | 653 | 660 | 666 | 668 | 674 | 666 | 678 | 687 | 688 | 662  | 667    | 658     | 660    |
| 1-2   | 629 | 633 | 633 | 654 | 660 | 667 | 669 | 675 | 666 | 678 | 685 | 688 | 661  | 668    | 658     | 659    |
| 2-3   | 627 | 631 | 633 | 654 | 660 | 667 | 668 | 674 | 665 | 678 | 686 | 687 | 661  | 667    | 658     | 658    |
| 3-4   | 628 | 631 | 633 | 653 | 660 | 665 | 667 | 672 | 666 | 678 | 685 | 686 | 660  | 666    | 658     | 658    |
| 4-5   | 627 | 631 | 634 | 653 | 660 | 666 | 668 | 672 | 665 | 677 | 684 | 686 | 660  | 667    | 658     | 657    |
| 5-6   | 626 | 633 | 631 | 653 | 661 | 665 | 666 | 672 | 665 | 676 | 684 | 687 | 660  | 666    | 656     | 658    |
| 6-7   | 628 | 634 | 632 | 654 | 662 | 665 | 664 | 671 | 664 | 676 | 684 | 688 | 660  | 666    | 657     | 659    |
| 7-8   | 630 | 634 | 633 | 654 | 661 | 665 | 664 | 672 | 663 | 677 | 684 | 688 | 660  | 666    | 657     | 659    |
| 8-9   | 630 | 636 | 632 | 654 | 661 | 666 | 663 | 671 | 663 | 677 | 685 | 689 | 661  | 665    | 657     | 660    |
| 9-10  | 631 | 637 | 633 | 653 | 662 | 666 | 666 | 671 | 662 | 678 | 686 | 690 | 661  | 666    | 657     | 661    |
| 10-11 | 631 | 637 | 634 | 652 | 663 | 668 | 667 | 670 | 661 | 680 | 686 | 691 | 662  | 667    | 657     | 661    |
| 11-12 | 631 | 637 | 634 | 651 | 663 | 667 | 665 | 669 | 660 | 680 | 686 | 692 | 661  | 666    | 656     | 662    |
| 12-13 | 631 | 635 | 631 | 648 | 657 | 662 | 658 | 662 | 652 | 674 | 683 | 690 | 657  | 660    | 651     | 660    |
| 13-14 | 629 | 632 | 624 | 639 | 646 | 651 | 650 | 648 | 639 | 664 | 676 | 685 | 649  | 649    | 642     | 656    |
| 14-15 | 624 | 629 | 618 | 630 | 638 | 641 | 640 | 636 | 628 | 654 | 668 | 679 | 640  | 639    | 633     | 650    |
| 15-16 | 616 | 625 | 611 | 627 | 639 | 637 | 636 | 630 | 625 | 647 | 664 | 673 | 636  | 636    | 628     | 645    |
| 16-17 | 610 | 627 | 609 | 631 | 651 | 647 | 644 | 641 | 635 | 645 | 665 | 669 | 639  | 646    | 630     | 643    |
| 17-18 | 612 | 629 | 613 | 639 | 664 | 660 | 658 | 657 | 652 | 649 | 670 | 673 | 648  | 660    | 638     | 646    |
| 18-19 | 617 | 633 | 622 | 649 | 672 | 673 | 673 | 673 | 663 | 659 | 680 | 680 | 658  | 673    | 648     | 653    |
| 19-20 | 622 | 637 | 630 | 655 | 676 | 683 | 676 | 681 | 671 | 667 | 687 | 689 | 664  | 679    | 656     | 659    |
| 20-21 | 629 | 634 | 635 | 657 | 673 | 685 | 684 | 684 | 670 | 674 | 691 | 694 | 667  | 682    | 659     | 662    |
| 21-22 | 634 | 637 | 638 | 659 | 668 | 681 | 683 | 688 | 669 | 676 | 691 | 697 | 668  | 680    | 661     | 665    |
| 22-23 | 637 | 639 | 639 | 657 | 663 | 678 | 678 | 682 | 667 | 681 | 693 | 697 | 668  | 675    | 661     | 667    |
| 23-24 | 637 | 640 | 640 | 656 | 661 | 674 | 676 | 683 | 669 | 683 | 692 | 696 | 667  | 674    | 662     | 666    |
| Mean  | 627 | 634 | 629 | 649 | 660 | 665 | 665 | 668 | 659 | 671 | 683 | 687 | 658  | 665    | 652     | 658    |

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION (QUIET DAYS)

Table 41 Agincourt

7° W + ...'

1966

| U. T. | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Year | Summer | Equinox | Winter |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|---------|--------|
| 0-1   | 31.3 | 32.1 | 33.1 | 33.1 | 32.8 | 32.9 | 33.2 | 33.1 | 33.7 | 34.3 | 33.8 | 33.8 | 33.1 | 33.0   | 33.6    | 32.8   |
| 1-2   | 31.2 | 32.0 | 31.9 | 33.0 | 32.7 | 33.1 | 33.6 | 32.2 | 33.8 | 33.8 | 33.4 | 33.7 | 32.9 | 32.9   | 33.1    | 32.6   |
| 2-3   | 30.9 | 31.7 | 32.1 | 32.9 | 32.9 | 33.2 | 33.2 | 33.1 | 34.7 | 33.7 | 33.3 | 33.4 | 32.9 | 33.1   | 33.4    | 32.3   |
| 3-4   | 31.2 | 31.8 | 32.3 | 32.8 | 33.0 | 33.1 | 33.2 | 33.1 | 34.2 | 33.6 | 33.8 | 33.7 | 33.0 | 33.1   | 33.2    | 32.6   |
| 4-5   | 31.2 | 31.9 | 31.8 | 32.5 | 32.9 | 32.6 | 33.4 | 33.3 | 34.2 | 33.5 | 34.0 | 34.2 | 33.0 | 33.1   | 33.0    | 32.8   |
| 5-6   | 31.1 | 31.9 | 32.1 | 32.3 | 32.8 | 33.0 | 32.8 | 33.5 | 34.4 | 33.5 | 34.0 | 34.2 | 33.0 | 33.0   | 33.1    | 32.8   |
| 6-7   | 31.8 | 31.9 | 32.2 | 32.1 | 32.4 | 32.7 | 32.6 | 33.1 | 34.5 | 33.3 | 33.9 | 34.5 | 32.9 | 32.7   | 33.0    | 33.0   |
| 7-8   | 31.9 | 32.0 | 31.4 | 31.8 | 32.2 | 32.2 | 32.4 | 32.6 | 33.7 | 33.0 | 34.0 | 34.5 | 32.6 | 32.4   | 32.5    | 33.1   |
| 8-9   | 31.8 | 32.1 | 31.1 | 31.3 | 32.1 | 31.9 | 32.3 | 32.7 | 32.3 | 32.7 | 33.8 | 33.9 | 32.3 | 32.3   | 31.9    | 32.9   |
| 9-10  | 31.5 | 31.7 | 31.1 | 30.7 | 31.4 | 31.2 | 31.6 | 31.8 | 31.4 | 32.6 | 33.3 | 33.5 | 31.8 | 31.5   | 31.5    | 32.5   |
| 10-11 | 31.0 | 31.6 | 31.2 | 30.0 | 29.9 | 28.9 | 30.0 | 30.5 | 30.9 | 32.4 | 33.0 | 33.3 | 31.1 | 29.8   | 31.1    | 32.2   |
| 11-12 | 30.9 | 31.4 | 30.8 | 29.2 | 27.9 | 27.4 | 28.1 | 28.1 | 29.3 | 32.0 | 32.9 | 33.1 | 30.1 | 27.9   | 30.3    | 32.1   |
| 12-13 | 30.6 | 30.9 | 29.5 | 28.5 | 26.9 | 26.3 | 27.4 | 26.6 | 28.5 | 30.7 | 32.0 | 32.6 | 29.2 | 26.8   | 29.3    | 31.5   |
| 13-14 | 30.0 | 30.1 | 28.8 | 28.3 | 28.0 | 27.5 | 27.6 | 27.3 | 29.5 | 30.1 | 30.7 | 32.0 | 29.2 | 27.6   | 29.2    | 30.7   |
| 14-15 | 29.2 | 29.7 | 29.4 | 29.1 | 30.7 | 29.6 | 29.4 | 29.2 | 32.2 | 30.0 | 30.9 | 32.0 | 30.1 | 29.7   | 30.2    | 30.5   |
| 15-16 | 30.3 | 30.8 | 31.3 | 31.6 | 34.9 | 32.5 | 33.1 | 33.2 | 37.0 | 31.9 | 32.9 | 33.7 | 32.8 | 33.4   | 33.0    | 31.9   |
| 16-17 | 32.0 | 32.1 | 33.9 | 35.0 | 38.1 | 35.6 | 36.6 | 37.7 | 40.5 | 35.0 | 35.3 | 35.8 | 35.6 | 37.0   | 36.1    | 33.8   |
| 17-18 | 33.5 | 33.9 | 35.9 | 37.1 | 39.7 | 38.1 | 38.4 | 40.9 | 41.4 | 37.5 | 37.6 | 37.5 | 37.6 | 39.3   | 38.0    | 35.6   |
| 18-19 | 34.4 | 34.9 | 36.5 | 38.1 | 39.9 | 38.8 | 38.8 | 41.1 | 40.4 | 39.0 | 38.3 | 38.1 | 38.2 | 39.7   | 38.5    | 36.4   |
| 19-20 | 34.1 | 34.7 | 36.4 | 37.9 | 38.8 | 37.8 | 38.4 | 39.8 | 38.4 | 39.0 | 37.3 | 37.3 | 37.5 | 38.7   | 37.9    | 35.9   |
| 20-21 | 33.4 | 33.8 | 35.4 | 36.6 | 37.0 | 36.3 | 36.8 | 37.7 | 36.1 | 37.7 | 35.7 | 36.2 | 36.1 | 37.0   | 36.5    | 34.8   |
| 21-22 | 32.8 | 33.3 | 34.4 | 34.9 | 34.9 | 34.8 | 35.5 | 35.9 | 34.4 | 36.3 | 34.9 | 35.2 | 34.8 | 35.3   | 35.0    | 34.1   |
| 22-23 | 31.9 | 33.1 | 33.7 | 33.8 | 33.5 | 33.4 | 34.4 | 34.4 | 34.1 | 35.5 | 34.5 | 34.7 | 33.9 | 33.9   | 34.3    | 33.6   |
| 23-24 | 31.4 | 32.7 | 33.2 | 33.3 | 33.0 | 32.9 | 33.9 | 34.0 | 34.5 | 34.8 | 34.0 | 33.9 | 33.5 | 33.5   | 34.0    | 33.0   |
| Mean  | 31.6 | 32.2 | 32.5 | 32.7 | 33.3 | 32.7 | 33.2 | 33.5 | 34.3 | 34.0 | 34.1 | 34.4 | 33.2 | 33.2   | 33.4    | 33.1   |

MEAN VALUES OF MAGNETIC ELEMENTS  
VERTICAL INTENSITY (QUIET DAYS)

Table 42 Agincourt

56,000  $\gamma$  +

1966

| U.T. . | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year | Summer | Equinox | Winter |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|---------|--------|
| 0-1    | 35  | 32  | 34  | 28  | 23  | 29  | 30  | 23  | 37  | 24  | 22  | 20  | 28   | 26     | 31      | 27     |
| 1-2    | 34  | 31  | 34  | 27  | 23  | 28  | 29  | 21  | 35  | 23  | 21  | 20  | 27   | 25     | 30      | 27     |
| 2-3    | 35  | 31  | 33  | 26  | 22  | 27  | 29  | 20  | 35  | 23  | 21  | 20  | 27   | 25     | 29      | 27     |
| 3-4    | 35  | 31  | 34  | 26  | 22  | 26  | 29  | 20  | 34  | 23  | 21  | 19  | 27   | 24     | 29      | 27     |
| 4-5    | 35  | 32  | 34  | 26  | 22  | 26  | 28  | 20  | 33  | 23  | 21  | 19  | 27   | 24     | 29      | 27     |
| 5-6    | 35  | 32  | 33  | 26  | 22  | 26  | 24  | 20  | 31  | 22  | 20  | 18  | 26   | 23     | 28      | 26     |
| 6-7    | 34  | 31  | 32  | 26  | 21  | 25  | 23  | 19  | 29  | 22  | 20  | 18  | 25   | 22     | 27      | 26     |
| 7-8    | 34  | 31  | 31  | 26  | 21  | 25  | 25  | 18  | 31  | 21  | 20  | 17  | 25   | 22     | 27      | 26     |
| 8-9    | 34  | 30  | 32  | 25  | 22  | 26  | 27  | 19  | 31  | 20  | 19  | 18  | 25   | 24     | 27      | 25     |
| 9-10   | 33  | 29  | 32  | 26  | 24  | 29  | 29  | 20  | 33  | 19  | 19  | 18  | 26   | 26     | 28      | 25     |
| 10-11  | 33  | 29  | 32  | 28  | 25  | 30  | 30  | 20  | 34  | 19  | 19  | 18  | 26   | 26     | 28      | 25     |
| 11-12  | 34  | 29  | 33  | 28  | 23  | 29  | 30  | 16  | 35  | 21  | 20  | 17  | 26   | 25     | 29      | 25     |
| 12-13  | 34  | 30  | 33  | 27  | 23  | 29  | 29  | 14  | 32  | 22  | 20  | 17  | 26   | 24     | 29      | 25     |
| 13-14  | 34  | 28  | 32  | 25  | 20  | 29  | 28  | 14  | 30  | 22  | 19  | 16  | 25   | 23     | 27      | 24     |
| 14-15  | 32  | 25  | 30  | 22  | 17  | 27  | 26  | 14  | 28  | 20  | 14  | 14  | 22   | 21     | 25      | 21     |
| 15-16  | 29  | 22  | 28  | 20  | 13  | 23  | 25  | 15  | 28  | 19  | 12  | 13  | 21   | 19     | 24      | 19     |
| 16-17  | 32  | 21  | 27  | 17  | 14  | 19  | 24  | 16  | 29  | 19  | 12  | 13  | 20   | 18     | 23      | 20     |
| 17-18  | 35  | 25  | 29  | 16  | 13  | 18  | 22  | 16  | 32  | 20  | 14  | 16  | 21   | 17     | 24      | 23     |
| 18-19  | 36  | 27  | 31  | 19  | 15  | 20  | 25  | 19  | 37  | 22  | 18  | 20  | 24   | 20     | 27      | 25     |
| 19-20  | 38  | 30  | 31  | 23  | 20  | 24  | 27  | 25  | 40  | 23  | 20  | 23  | 27   | 24     | 29      | 28     |
| 20-21  | 39  | 32  | 33  | 26  | 25  | 28  | 28  | 28  | 40  | 24  | 21  | 21  | 29   | 27     | 31      | 28     |
| 21-22  | 37  | 31  | 34  | 29  | 27  | 28  | 27  | 30  | 38  | 24  | 19  | 19  | 29   | 28     | 31      | 27     |
| 22-23  | 36  | 30  | 34  | 29  | 27  | 29  | 29  | 29  | 36  | 24  | 20  | 19  | 29   | 29     | 31      | 26     |
| 23-24  | 34  | 30  | 33  | 28  | 25  | 30  | 30  | 27  | 35  | 23  | 19  | 17  | 28   | 28     | 30      | 25     |
| Mean   | 34  | 29  | 32  | 25  | 21  | 26  | 27  | 20  | 34  | 22  | 19  | 18  | 26   | 24     | 28      | 25     |

MEAN VALUES OF MAGNETIC ELEMENTS  
HORIZONTAL INTENSITY (DISTURBED DAYS)

Table 43 Agincourt

15,500  $\gamma$  +

1966

| U.T.  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year | Summer | Equinox | Winter |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|---------|--------|
| 0-1   | 616 | 626 | 637 | 641 | 659 | 658 | 679 | 665 | 594 | 663 | 666 | 677 | 648  | 665    | 634     | 646    |
| 1-2   | 623 | 621 | 637 | 643 | 650 | 653 | 665 | 652 | 517 | 659 | 674 | 675 | 639  | 655    | 614     | 648    |
| 2-3   | 628 | 624 | 625 | 642 | 650 | 656 | 658 | 653 | 568 | 646 | 669 | 680 | 642  | 654    | 620     | 650    |
| 3-4   | 623 | 625 | 619 | 638 | 654 | 653 | 651 | 646 | 543 | 658 | 670 | 678 | 638  | 651    | 615     | 649    |
| 4-5   | 619 | 623 | 612 | 641 | 648 | 656 | 633 | 655 | 557 | 653 | 671 | 672 | 637  | 648    | 616     | 646    |
| 5-6   | 620 | 614 | 611 | 646 | 649 | 655 | 618 | 659 | 559 | 641 | 672 | 672 | 635  | 645    | 614     | 645    |
| 6-7   | 625 | 618 | 583 | 639 | 651 | 655 | 586 | 658 | 565 | 651 | 670 | 675 | 631  | 638    | 610     | 647    |
| 7-8   | 620 | 608 | 585 | 643 | 646 | 655 | 599 | 659 | 589 | 651 | 662 | 672 | 632  | 640    | 617     | 641    |
| 8-9   | 625 | 610 | 605 | 641 | 650 | 658 | 622 | 660 | 595 | 647 | 672 | 668 | 638  | 648    | 622     | 644    |
| 9-10  | 620 | 605 | 623 | 642 | 645 | 656 | 622 | 657 | 565 | 661 | 670 | 671 | 636  | 645    | 623     | 642    |
| 10-11 | 623 | 626 | 618 | 641 | 622 | 652 | 638 | 649 | 538 | 669 | 669 | 675 | 635  | 640    | 617     | 648    |
| 11-12 | 626 | 630 | 609 | 637 | 625 | 654 | 632 | 649 | 594 | 656 | 672 | 682 | 639  | 640    | 624     | 653    |
| 12-13 | 627 | 624 | 608 | 632 | 617 | 651 | 640 | 650 | 602 | 657 | 672 | 680 | 638  | 640    | 625     | 651    |
| 13-14 | 615 | 622 | 618 | 616 | 613 | 644 | 633 | 643 | 614 | 641 | 663 | 673 | 633  | 633    | 622     | 643    |
| 14-15 | 610 | 618 | 600 | 607 | 612 | 633 | 625 | 635 | 599 | 631 | 654 | 656 | 623  | 626    | 609     | 635    |
| 15-16 | 616 | 611 | 577 | 607 | 606 | 628 | 622 | 635 | 584 | 629 | 634 | 630 | 615  | 623    | 599     | 623    |
| 16-17 | 609 | 608 | 576 | 608 | 605 | 639 | 623 | 635 | 593 | 628 | 638 | 636 | 617  | 626    | 601     | 623    |
| 17-18 | 600 | 620 | 583 | 617 | 624 | 656 | 635 | 639 | 609 | 640 | 642 | 643 | 626  | 639    | 612     | 626    |
| 18-19 | 604 | 624 | 596 | 629 | 668 | 664 | 656 | 644 | 641 | 647 | 654 | 644 | 639  | 658    | 628     | 632    |
| 19-20 | 606 | 624 | 623 | 639 | 718 | 669 | 661 | 681 | 680 | 664 | 662 | 651 | 657  | 682    | 652     | 636    |
| 20-21 | 608 | 617 | 630 | 647 | 717 | 671 | 671 | 710 | 699 | 661 | 671 | 661 | 664  | 692    | 659     | 639    |
| 21-22 | 616 | 625 | 631 | 653 | 717 | 667 | 682 | 719 | 729 | 652 | 669 | 663 | 669  | 696    | 666     | 643    |
| 22-23 | 619 | 625 | 625 | 647 | 713 | 662 | 683 | 718 | 716 | 662 | 670 | 663 | 667  | 694    | 663     | 644    |
| 23-24 | 615 | 623 | 623 | 637 | 665 | 664 | 681 | 680 | 672 | 667 | 671 | 666 | 655  | 673    | 650     | 644    |
| Mean  | 617 | 620 | 611 | 635 | 651 | 655 | 642 | 660 | 605 | 651 | 664 | 665 | 640  | 652    | 626     | 642    |



MEAN VALUES OF MAGNETIC ELEMENTS  
DECLINATION (DISTURBED DAYS)

Table 44 Agincourt

7° W + ...'

1966

| U.T.  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Year | Summer | Equinox | Winter |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|---------|--------|
| 0-1   | 30.4 | 31.1 | 35.0 | 33.7 | 32.6 | 32.7 | 31.4 | 34.7 | 40.9 | 32.4 | 31.0 | 33.6 | 33.3 | 32.9   | 35.5    | 31.5   |
| 1-2   | 30.2 | 29.9 | 34.1 | 33.0 | 31.4 | 31.9 | 32.0 | 30.6 | 43.1 | 32.0 | 31.8 | 30.9 | 32.6 | 31.5   | 35.6    | 30.7   |
| 2-3   | 29.2 | 30.1 | 31.5 | 30.5 | 32.2 | 32.4 | 30.3 | 31.6 | 34.7 | 29.1 | 31.6 | 31.8 | 31.3 | 31.6   | 31.5    | 30.7   |
| 3-4   | 30.5 | 30.6 | 31.3 | 32.8 | 30.9 | 31.5 | 29.5 | 33.6 | 40.1 | 29.5 | 32.1 | 32.6 | 32.1 | 31.4   | 33.4    | 31.5   |
| 4-5   | 30.2 | 30.7 | 30.2 | 31.3 | 32.0 | 31.2 | 32.6 | 31.2 | 32.0 | 31.7 | 32.9 | 32.5 | 31.5 | 31.8   | 31.3    | 31.6   |
| 5-6   | 30.5 | 31.0 | 29.4 | 31.3 | 31.2 | 32.4 | 31.3 | 32.4 | 38.1 | 31.2 | 33.9 | 36.2 | 32.4 | 31.8   | 32.5    | 32.9   |
| 6-7   | 34.3 | 30.7 | 34.4 | 31.5 | 31.0 | 32.0 | 29.0 | 33.1 | 38.4 | 31.8 | 37.5 | 35.8 | 33.3 | 31.3   | 34.0    | 34.6   |
| 7-8   | 32.2 | 31.4 | 32.8 | 30.2 | 30.8 | 32.4 | 27.3 | 32.7 | 36.3 | 32.4 | 36.6 | 32.6 | 32.3 | 30.8   | 32.9    | 33.2   |
| 8-9   | 30.8 | 31.9 | 29.1 | 29.4 | 32.7 | 31.9 | 26.9 | 31.6 | 32.4 | 33.4 | 32.5 | 33.7 | 31.4 | 30.8   | 31.1    | 32.2   |
| 9-10  | 30.3 | 35.4 | 27.2 | 29.6 | 30.0 | 31.4 | 33.4 | 31.3 | 39.9 | 32.6 | 34.9 | 33.9 | 32.5 | 31.5   | 32.3    | 33.6   |
| 10-11 | 31.2 | 31.2 | 39.1 | 29.5 | 34.2 | 31.8 | 28.6 | 32.3 | 43.1 | 35.2 | 35.3 | 34.4 | 33.8 | 31.7   | 36.7    | 33.0   |
| 11-12 | 30.7 | 29.7 | 37.5 | 28.2 | 28.8 | 29.8 | 30.9 | 27.6 | 31.8 | 36.5 | 36.5 | 34.8 | 31.9 | 29.3   | 33.5    | 32.9   |
| 12-13 | 30.8 | 30.7 | 38.9 | 28.5 | 27.2 | 25.9 | 28.2 | 26.7 | 29.3 | 34.7 | 36.1 | 34.4 | 31.0 | 27.0   | 32.9    | 33.0   |
| 13-14 | 32.1 | 30.9 | 33.3 | 32.0 | 28.2 | 25.8 | 26.6 | 22.7 | 29.5 | 36.4 | 35.4 | 34.1 | 30.6 | 25.8   | 32.8    | 33.1   |
| 14-15 | 34.8 | 31.2 | 33.4 | 34.1 | 30.0 | 27.2 | 28.1 | 26.8 | 33.4 | 36.8 | 33.7 | 34.7 | 32.0 | 28.0   | 34.4    | 33.6   |
| 15-16 | 33.8 | 33.4 | 38.1 | 36.8 | 32.5 | 31.2 | 30.5 | 32.2 | 40.6 | 38.3 | 37.6 | 36.7 | 35.1 | 31.6   | 38.5    | 35.4   |
| 16-17 | 35.5 | 35.6 | 40.7 | 39.0 | 37.6 | 35.5 | 34.4 | 36.9 | 44.9 | 39.6 | 39.7 | 41.0 | 38.4 | 36.1   | 41.1    | 38.0   |
| 17-18 | 36.7 | 37.5 | 41.6 | 39.0 | 41.3 | 37.5 | 38.0 | 40.7 | 45.7 | 41.4 | 41.2 | 40.5 | 40.1 | 39.4   | 41.9    | 39.0   |
| 18-19 | 37.0 | 37.2 | 40.5 | 41.6 | 39.8 | 39.1 | 40.0 | 45.9 | 43.6 | 41.0 | 41.3 | 40.5 | 40.6 | 41.2   | 41.7    | 39.0   |
| 19-20 | 35.5 | 37.6 | 38.8 | 40.9 | 36.7 | 40.8 | 41.1 | 43.4 | 40.5 | 38.8 | 39.9 | 40.2 | 39.5 | 40.5   | 39.8    | 38.3   |
| 20-21 | 34.5 | 36.5 | 36.4 | 39.3 | 36.0 | 39.8 | 39.5 | 40.9 | 37.9 | 40.4 | 37.2 | 38.9 | 38.1 | 39.1   | 38.5    | 36.8   |
| 21-22 | 33.5 | 34.4 | 36.1 | 36.7 | 35.6 | 37.3 | 38.3 | 38.0 | 35.8 | 39.3 | 36.2 | 36.8 | 36.5 | 37.3   | 37.0    | 35.2   |
| 22-23 | 32.1 | 33.4 | 35.0 | 34.9 | 34.3 | 35.0 | 35.3 | 36.5 | 36.5 | 36.9 | 34.1 | 36.1 | 35.0 | 35.3   | 35.8    | 33.9   |
| 23-24 | 32.6 | 32.4 | 32.5 | 33.7 | 32.9 | 33.7 | 34.1 | 34.5 | 36.5 | 35.6 | 33.8 | 32.7 | 33.8 | 33.8   | 34.6    | 32.9   |
| Mean  | 32.5 | 32.7 | 34.9 | 33.7 | 32.9 | 32.9 | 32.4 | 33.7 | 37.7 | 35.3 | 35.5 | 35.4 | 34.1 | 33.0   | 35.4    | 34.0   |

MEAN VALUES OF MAGNETIC ELEMENTS  
VERTICAL INTENSITY (DISTURBED DAYS)

Table 45 Agincourt

56,000  $\gamma$  +

1966

| U.T.  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year | Summer | Equinox | Winter |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|---------|--------|
| 0-1   | 40  | 40  | 56  | 43  | 35  | 49  | 59  | 67  | 48  | 44  | 34  | 29  | 45   | 53     | 48      | 36     |
| 1-2   | 38  | 38  | 70  | 39  | 34  | 39  | 50  | 56  | 0   | 44  | 26  | 29  | 39   | 45     | 38      | 33     |
| 2-3   | 35  | 39  | 56  | 37  | 32  | 27  | 34  | 22  | -27 | 32  | 26  | 27  | 28   | 29     | 25      | 32     |
| 3-4   | 36  | 35  | 50  | 30  | 27  | 26  | 10  | 10  | 50  | 13  | 23  | 26  | 28   | 18     | 36      | 30     |
| 4-5   | 35  | 22  | 29  | 30  | 4   | 24  | -48 | 21  | -26 | 0   | 19  | 25  | 11   | 0      | 8       | 25     |
| 5-6   | 34  | 11  | 12  | 24  | 17  | 18  | -39 | 25  | -31 | -21 | 11  | 10  | 6    | 5      | -4      | 17     |
| 6-7   | 23  | 14  | -15 | 17  | 20  | 17  | -69 | 32  | -60 | -14 | -2  | 9   | -2   | 0      | -18     | 11     |
| 7-8   | 22  | 6   | -21 | 23  | 9   | 24  | -66 | 29  | -14 | -36 | -7  | 8   | -2   | -1     | -12     | 7      |
| 8-9   | 24  | 8   | -40 | 26  | -4  | 28  | -33 | 31  | -17 | -23 | 0   | 9   | 1    | 6      | -14     | 10     |
| 9-10  | 25  | 4   | -49 | 27  | -5  | 30  | -24 | 30  | -31 | -22 | -1  | 8   | -1   | 8      | -19     | 9      |
| 10-11 | 24  | 17  | -51 | 27  | -39 | 22  | -2  | 17  | -45 | -20 | -1  | 11  | -3   | -1     | -22     | 13     |
| 11-12 | 24  | 21  | -37 | 27  | -15 | 13  | -11 | 18  | -23 | -3  | 4   | 13  | 3    | 1      | -9      | 16     |
| 12-13 | 24  | 26  | -23 | 27  | -5  | 16  | 7   | 6   | 10  | 5   | 8   | 16  | 10   | 6      | 5       | 19     |
| 13-14 | 23  | 27  | 2   | 23  | 9   | 15  | 17  | 11  | 15  | 9   | 10  | 16  | 15   | 13     | 12      | 19     |
| 14-15 | 22  | 24  | 8   | 22  | 14  | 14  | 18  | 14  | 25  | 15  | 10  | 14  | 17   | 15     | 18      | 18     |
| 15-16 | 22  | 25  | 13  | 16  | 19  | 13  | 21  | 15  | 33  | 19  | 11  | 14  | 18   | 17     | 20      | 18     |
| 16-17 | 23  | 26  | 23  | 17  | 24  | 15  | 26  | 15  | 33  | 23  | 18  | 16  | 22   | 20     | 24      | 21     |
| 17-18 | 29  | 30  | 34  | 20  | 33  | 18  | 29  | 19  | 64  | 26  | 24  | 28  | 30   | 25     | 36      | 28     |
| 18-19 | 35  | 33  | 53  | 25  | 69  | 26  | 34  | 32  | 77  | 33  | 29  | 37  | 40   | 40     | 47      | 34     |
| 19-20 | 39  | 38  | 78  | 37  | 114 | 37  | 36  | 42  | 103 | 39  | 30  | 41  | 53   | 57     | 64      | 37     |
| 20-21 | 38  | 44  | 76  | 49  | 100 | 42  | 39  | 69  | 104 | 42  | 32  | 40  | 56   | 63     | 68      | 39     |
| 21-22 | 41  | 45  | 60  | 63  | 102 | 44  | 43  | 75  | 106 | 42  | 32  | 39  | 58   | 66     | 68      | 39     |
| 22-23 | 41  | 42  | 46  | 62  | 93  | 45  | 49  | 71  | 69  | 46  | 33  | 41  | 53   | 65     | 56      | 39     |
| 23-24 | 41  | 43  | 45  | 60  | 85  | 41  | 50  | 72  | 55  | 58  | 33  | 42  | 52   | 62     | 55      | 40     |
| Mean  | 31  | 27  | 20  | 32  | 32  | 27  | 9   | 33  | 21  | 15  | 17  | 23  | 24   | 25     | 22      | 25     |

## THREE-HOUR RANGE INDICES, AGIN COURT, 1966

| Table 46 |           |           |           |           |           |           |           |           |  |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| January  | D         |           | H         |           | Z         | K         |           | February  |  |
|          | D         | H         | Z         | K         | D         | H         | Z         | K         |  |
| 1        | 0100 1000 | 0100 0101 | 0000 0000 | 0100 1101 | 0020 2000 | 1100 1000 | 0000 0000 | 1120 2000 |  |
| 2        | 4111 2201 | 2101 1212 | 2000 0000 | 4111 2212 | 0000 1100 | 0001 1101 | 0000 1100 | 0001 1101 |  |
| 3        | 2100 2001 | 3100 1221 | 0000 0000 | 3100 2221 | 0012 3122 | 1011 3132 | 0010 0121 | 1012 3132 |  |
| 4        | 0102 1333 | 0101 1341 | 0000 0020 | 0102 1343 | 3133 2113 | 2122 2232 | 0023 0011 | 3133 2233 |  |
| 5        | 3000 0000 | 2010 0101 | 0000 0000 | 3010 0101 | 3324 3222 | 2213 3222 | 1322 0111 | 3324 3222 |  |
| 6        | 1000 0101 | 0000 0100 | 0000 0000 | 1000 0101 | 2331 2000 | 1121 1111 | 0100 0000 | 2331 2111 |  |
| 7        | 1221 0223 | 2211 0222 | 0100 0100 | 2221 0223 | 1201 0010 | 1100 0111 | 0000 0000 | 1201 0111 |  |
| 8        | 3222 2200 | 2220 2111 | 1000 0000 | 3222 2211 | 0100 2110 | 0000 1110 | 0000 0000 | 0100 2110 |  |
| 9        | 0000 1223 | 1000 1223 | 0000 0111 | 1000 1223 | 1100 1010 | 0100 0111 | 0000 1010 | 1100 1111 |  |
| 10       | 0322 1110 | 1211 1210 | 0000 0000 | 1322 1210 | 0111 2101 | 0211 0122 | 0000 0110 | 0211 2122 |  |
| 11       | 1000 0100 | 1000 0110 | 0000 0000 | 1000 0110 | 3212 3221 | 1111 3222 | 0010 2001 | 3212 3222 |  |
| 12       | 1101 0000 | 1000 0110 | 0000 0000 | 1101 0110 | 2321 1100 | 1101 0000 | 0100 1100 | 2321 1100 |  |
| 13       | 2000 0110 | 0000 0110 | 0000 0000 | 2000 0110 | 3211 2200 | 2100 0211 | 1100 1100 | 3211 2211 |  |
| 14       | 0001 1101 | 0010 1111 | 0000 0000 | 0011 1111 | 0001 0100 | 0000 0210 | 0000 1000 | 0001 0210 |  |
| 15       | 0211 1100 | 1100 1100 | 0000 0000 | 1211 1100 | 0000 1011 | 1001 1032 | 1000 0110 | 1001 1032 |  |
| 16       | 0100 0010 | 0000 0111 | 0000 0000 | 0100 0111 | 1230 1100 | 0110 0110 | 0010 0100 | 1230 1110 |  |
| 17       | 1100 2100 | 0200 0111 | 0000 0000 | 1200 2111 | 0001 2100 | 0000 1111 | 0000 0000 | 0001 2111 |  |
| 18       | 0010 1211 | 0010 0211 | 0000 0000 | 0010 1211 | 0221 0100 | 0210 0010 | 0100 0010 | 0221 0110 |  |
| 19       | 0032 1100 | 0022 1201 | 0010 0100 | 0032 1201 | 1131 2433 | 0020 2332 | 0020 0221 | 1131 2433 |  |
| 20       | 0232 4322 | 2131 3333 | 0020 1110 | 2232 4333 | 3334 3210 | 3333 3211 | 1332 2210 | 3334 3211 |  |
| 21       | 4333 3231 | 4333 3342 | 2122 1110 | 4333 3342 | 0122 2110 | 1011 1111 | 0000 0000 | 1122 2111 |  |
| 22       | 2253 5422 | 2343 4332 | 0131 2111 | 2353 5432 | 0012 3324 | 1001 2223 | 0000 1123 | 1012 3324 |  |
| 23       | 4243 3200 | 3122 2221 | 2021 0000 | 4243 3221 | 2555 3332 | 2444 2243 | 1455 1033 | 2555 3343 |  |
| 24       | 0433 3211 | 2223 2322 | 0111 0100 | 2433 3322 | 3442 3223 | 2342 2231 | 1221 1011 | 3442 3233 |  |
| 25       | 2222 2310 | 2221 2322 | 0010 0000 | 2222 2322 | 3231 2202 | 2210 2212 | 1110 0000 | 3231 2212 |  |
| 26       | 0232 3233 | 1232 2332 | 0010 0221 | 1232 3333 | 0001 1100 | 0000 1111 | 0000 0010 | 0001 1111 |  |
| 27       | 3310 0000 | 2210 0100 | 1100 0000 | 3310 0100 | 0212 1100 | 1101 1110 | 0210 0100 | 1212 1110 |  |
| 28       | 0011 1113 | 0000 1234 | 0000 0012 | 0011 1234 | 0000 0100 | 0000 0010 | 0000 0100 | 0000 0110 |  |
| 29       | 1122 1100 | 2212 1110 | 0000 0000 | 2222 1110 |           |           |           |           |  |
| 30       | 0010 2100 | 0110 1210 | 0000 0000 | 0110 2210 |           |           |           |           |  |
| 31       | 0011 0000 | 0001 1111 | 0000 0000 | 0011 1111 |           |           |           |           |  |
|          |           |           |           |           |           |           |           |           |  |
| March    | D         |           | H         |           | Z         | K         |           | April     |  |
|          | D         | H         | Z         | K         | D         | H         | Z         | K         |  |
| 1        | 0201 1000 | 0201 0111 | 0100 0010 | 0201 1111 | 0010 3234 | 0011 4345 | 0000 2145 | 0011 4345 |  |
| 2        | 0000 1100 | 0000 0011 | 0000 0000 | 0000 1111 | 5551 1011 | 4530 0011 | 4441 0000 | 5551 1011 |  |
| 3        | 1004 3112 | 1013 2133 | 0002 0011 | 1014 3133 | 3410 2101 | 2200 1122 | 0200 0011 | 3410 2122 |  |
| 4        | 3101 0202 | 2101 1223 | 2000 0002 | 3101 1223 | 1332 2201 | 2211 1212 | 0222 0010 | 2332 2212 |  |
| 5        | 0311 1000 | 1111 1010 | 0110 0000 | 1311 1010 | 1032 1100 | 1121 1122 | 0020 0100 | 1132 1122 |  |
| 6        | 1013 1100 | 1011 0111 | 0001 0000 | 1013 1111 | 2222 2211 | 2221 1223 | 0010 0012 | 2222 2223 |  |
| 7        | 2000 2100 | 1000 1110 | 0000 0000 | 2000 2110 | 4422 2110 | 4311 1122 | 3301 0020 | 4422 2122 |  |
| 8        | 0121 1000 | 0110 0110 | 0000 0000 | 0121 1110 | 3512 2002 | 2411 1222 | 3411 0001 | 3512 2222 |  |
| 9        | 0001 1111 | 0001 1122 | 0000 0001 | 0001 1122 | 0011 1210 | 2211 1121 | 0000 0000 | 2211 1221 |  |
| 10       | 4212 3211 | 3101 3112 | 3100 0100 | 4212 3212 | 1111 1110 | 1020 0222 | 0010 0110 | 1121 1222 |  |
| 11       | 4210 0112 | 2200 0013 | 1000 0001 | 4210 0113 | 0000 2000 | 0000 1101 | 0000 0100 | 0000 2101 |  |
| 12       | 2213 2200 | 3011 2121 | 1001 1000 | 3213 2221 | 1022 1100 | 0001 0201 | 0000 0100 | 1022 1201 |  |
| 13       | 0010 2225 | 2110 1124 | 0000 0124 | 2110 2225 | 0313 3133 | 1212 3233 | 0102 2122 | 1313 3233 |  |
| 14       | 6577 4320 | 5576 4422 | 6765 5210 | 6777 5422 | 2112 1210 | 2111 1112 | 1011 0100 | 2112 1212 |  |
| 15       | 2422 2211 | 1312 1222 | 1111 0110 | 2422 2222 | 3031 1000 | 2120 0100 | 0010 0000 | 3131 1100 |  |
| 16       | 3311 1100 | 2311 1124 | 0100 1100 | 3311 1124 | 0001 2101 | 1000 1112 | 0000 0101 | 1001 2112 |  |
| 17       | 2101 2112 | 1100 1134 | 0000 0011 | 2101 2134 | 0121 2100 | 1211 1112 | 0001 0001 | 1221 2112 |  |
| 18       | 2201 1100 | 3200 0111 | 1100 0100 | 3201 1111 | 1000 2100 | 2100 1100 | 0000 0000 | 2100 2100 |  |
| 19       | 1234 3333 | 2223 3344 | 0122 2112 | 2234 3344 | 0101 1000 | 0000 0010 | 0000 0000 | 0010 1010 |  |
| 20       | 5211 2110 | 3111 2222 | 3100 1000 | 5211 2222 | 0011 2101 | 0021 3211 | 0021 2121 | 0021 3211 |  |
| 21       | 2311 2102 | 2221 1223 | 1210 0002 | 2321 2223 | 3221 2000 | 2100 1022 | 1101 0001 | 3221 2022 |  |
| 22       | 1101 2211 | 3110 1113 | 1000 0112 | 3111 2213 | 2332 3311 | 3231 4321 | 2221 2111 | 3332 4321 |  |
| 23       | 2346 6453 | 3345 6463 | 1255 5464 | 3356 6464 | 1441 2210 | 2331 2222 | 0330 0000 | 2441 2222 |  |
| 24       | 0000 0001 | 1000 1213 | 0000 0001 | 1000 1213 | 2211 1110 | 2211 1222 | 0100 0010 | 2211 1222 |  |
| 25       | 1001 3221 | 3212 3334 | 1000 2112 | 3212 3334 | 0001 1000 | 0000 0122 | 0000 0100 | 0001 1122 |  |
| 26       | 1212 5322 | 2323 3423 | 0201 2112 | 2323 5423 | 0020 0101 | 1010 0122 | 0000 0000 | 1020 0122 |  |
| 27       | 4432 3211 | 3322 2233 | 1231 1011 | 4432 3233 | 0000 0000 | 0000 0011 | 0000 0000 | 0000 0011 |  |
| 28       | 3135 4453 | 3243 3354 | 1133 4364 | 3245 4464 | 0122 0010 | 2211 1121 | 0000 0000 | 2222 1121 |  |
| 29       | 4532 2010 | 4421 1212 | 3322 0111 | 4532 2212 | 2230 2111 | 1121 1132 | 0000 0120 | 2231 2132 |  |
| 30       | 2301 2110 | 1201 2101 | 0200 1001 | 2301 2111 | 2232 3322 | 1221 3323 | 0120 0021 | 2232 3323 |  |
| 31       | 3122 1010 | 1010 1211 | 1010 0000 | 3122 1211 |           |           |           |           |  |

THREE-HOUR RANGE INDICES, AGINCOURT, 1966

| May  |           |           |           |           | June      |           |           |           |           |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|      | D         | H         | Z         | K         | D         | H         | Z         | K         |           |
| 1    | 2333 3201 | 2311 2222 | 1332 0011 | 2333 3222 | 4332 1001 | 4420 1121 | 5330 0010 | 5432 1121 |           |
| 2    | 3342 2222 | 2232 1232 | 0123 1011 | 3343 2232 | 0023 3311 | 2122 3223 | 0003 1211 | 2123 3323 |           |
| 3    | 0220 2012 | 1110 1123 | 0000 0001 | 1220 2123 | 0210 2321 | 1112 2232 | 0100 0220 | 1212 2332 |           |
| 4    | 3433 2113 | 3322 1222 | 2331 0010 | 3433 2223 | 3300 0101 | 2110 0223 | 0000 0102 | 3310 0223 |           |
| 5    | 2121 1101 | 2121 1122 | 0020 0211 | 2121 1222 | 1221 2110 | 3202 1022 | 1211 0000 | 3222 2122 |           |
| 6    | 2342 1010 | 2321 1212 | 1432 0001 | 2442 1212 | 3301 2110 | 1111 2212 | 0000 0000 | 3311 2212 |           |
| 7    | 2011 1100 | 1000 0222 | 0000 0001 | 2011 1222 | 2414 2221 | 2313 3333 | 0322 1111 | 2414 3333 |           |
| 8    | 0102 2210 | 0001 2212 | 0000 0001 | 0102 2212 | 1122 2100 | 1012 1210 | 0001 1000 | 1122 2210 |           |
| 9    | 1341 0000 | 1231 1010 | 0230 0000 | 1341 1010 | 0001 2111 | 0000 1212 | 0000 0000 | 0001 2212 |           |
| 10   | 0002 1100 | 0001 1111 | 0000 0010 | 0002 1111 | 0100 0100 | 0100 1121 | 0000 0000 | 0100 1121 |           |
| 11   | 0001 3111 | 0012 2244 | 0000 0022 | 0012 3244 | 0011 1001 | 0011 0132 | 0000 0001 | 0011 1132 |           |
| 12   | 1112 2202 | 2111 1133 | 0100 0111 | 2112 2233 | 0312 3111 | 2322 2223 | 0110 1111 | 2322 3223 |           |
| 13   | 3334 1200 | 2121 1211 | 1122 1000 | 3334 1211 | 0131 1100 | 1111 1222 | 1021 0000 | 1131 1222 |           |
| 14   | 0020 1001 | 1010 0121 | 0000 0000 | 1020 1121 | 2122 0110 | 2121 0222 | 1021 0100 | 2122 0222 |           |
| 15   | 0000 2101 | 1000 1011 | 0000 0000 | 1000 2111 | 0001 0112 | 1101 1234 | 0000 0022 | 1101 1234 |           |
| 16   | 0000 2210 | 1101 2132 | 0000 0000 | 1101 2232 | 2111 1212 | 3111 1222 | 2000 1120 | 3111 1222 |           |
| 17   | 4323 3212 | 2211 0222 | 2201 0000 | 4323 3222 | 1200 2111 | 0200 0023 | 0000 1102 | 1200 2123 |           |
| 18   | 3312 2100 | 2111 1112 | 1101 0000 | 3312 2112 | 0301 1000 | 1000 0111 | 0000 0020 | 1301 1121 |           |
| 19   | 0100 2111 | 1101 0122 | 0000 0001 | 1101 2122 | 0001 3221 | 1010 3232 | 0010 0110 | 1011 3232 |           |
| 20   | 1012 3221 | 1122 1233 | 0021 0211 | 1122 3233 | 0224 2221 | 1211 1231 | 0211 1111 | 1224 2231 |           |
| 21   | 1001 1110 | 2011 0112 | 0000 0100 | 2011 1112 | 2212 2110 | 2112 2121 | 0000 0000 | 2212 2121 |           |
| 22   | 0100 2301 | 1000 1212 | 0000 0100 | 1100 2312 | 0011 1000 | 0000 1112 | 0000 1100 | 0011 1112 |           |
| 23   | 0001 2100 | 1010 1111 | 0000 0110 | 1011 2111 | 1113 3332 | 2012 3234 | 0002 1122 | 2113 3334 |           |
| 24   | 0010 1200 | 0011 0122 | 0000 0110 | 0011 1222 | 0012 2233 | 1112 2354 | 0001 1232 | 1112 2354 |           |
| 25   | 1000 2201 | 1000 1114 | 0000 1002 | 1000 2214 | 4343 3231 | 4333 2323 | 4233 2221 | 4343 3333 |           |
| 26   | 0146 5567 | 2356 6577 | 0036 5478 | 2356 6577 | 0001 2221 | 0102 2223 | 0000 1111 | 0102 2223 |           |
| 27   | 3210 1200 | 4110 0102 | 3000 0010 | 4210 1202 | 0000 2100 | 1100 1122 | 0000 0110 | 1100 2133 |           |
| 28   | 0110 1301 | 1010 2233 | 0020 1011 | 1120 2333 | 0101 1221 | 2000 0233 | 0000 0112 | 2101 1233 |           |
| 29   | 1110 2111 | 1000 1122 | 0000 0010 | 1110 2122 | 1100 2121 | 3101 1123 | 0000 0001 | 3101 2123 |           |
| 30   | 0003 2213 | 1013 1223 | 0001 1021 | 1013 2223 | 3212 2002 | 2222 1122 | 1111 0122 | 3222 2122 |           |
| 31   | 3555 3545 | 3444 4565 | 1555 2263 | 3555 4565 |           |           |           |           |           |
| July |           |           |           |           | August    |           |           |           |           |
|      | D         | H         | Z         | K         | D         | H         | Z         | K         | K         |
| 1    | 3231 2121 | 2221 1132 | 2221 0010 | 3231 2132 | 2321 1111 | 3221 1122 | 2320 0100 | 3321 0100 | 3321 1122 |
| 2    | 1120 2101 | 2000 0222 | 0010 0011 | 2120 2222 | 0000 1100 | 1000 0101 | 0000 0110 | 0000 1101 | 1000 1101 |
| 3    | 0211 2100 | 1301 1122 | 0200 0100 | 1311 2122 | 0223 3300 | 1221 2322 | 0320 0111 | 1323 3322 |           |
| 4    | 1111 2322 | 2101 2344 | 0000 1112 | 2111 2344 | 0013 2212 | 1112 2223 | 0001 0001 | 1113 2223 |           |
| 5    | 2322 2220 | 1210 0121 | 1301 0000 | 2322 2221 | 2243 2310 | 1122 3223 | 2143 1111 | 2243 3323 |           |
| 6    | 1121 2100 | 1101 1222 | 0010 1110 | 1121 2222 | 2121 2200 | 2112 1232 | 0011 0221 | 2122 2232 |           |
| 7    | 2000 1101 | 2001 0022 | 0000 0011 | 2001 1122 | 2201 2110 | 3200 1112 | 1101 0100 | 3201 2112 |           |
| 8    | 2244 3314 | 2243 2244 | 1254 2123 | 2254 3344 | 0001 2111 | 1011 1233 | 0000 0012 | 1011 2233 |           |
| 9    | 5665 3221 | 5775 3443 | 5765 3222 | 5775 3443 | 2020 3211 | 3220 1242 | 1120 0021 | 3220 3242 |           |
| 10   | 3555 4112 | 4465 3333 | 3565 4111 | 4565 4333 | 4323 3210 | 3212 4222 | 2210 1120 | 4323 4222 |           |
| 11   | 1330 1101 | 3221 1223 | 1220 0003 | 3331 1223 | 0343 3222 | 1332 3334 | 0332 1023 | 1343 3334 |           |
| 12   | 2555 3010 | 3445 3121 | 2445 2010 | 3555 3121 | 3443 3121 | 3432 2232 | 3433 1011 | 3443 3232 |           |
| 13   | 2210 1100 | 1101 0121 | 0000 0000 | 2210 1121 | 3312 2101 | 2321 1122 | 1311 1001 | 3322 2122 |           |
| 14   | 1023 1120 | 1111 0220 | 0000 0010 | 1123 1220 | 3444 2101 | 3222 1231 | 1323 0020 | 3444 2231 |           |
| 15   | 0000 1112 | 1100 1235 | 0000 1013 | 1100 1235 | 2333 2101 | 1111 1222 | 0121 0010 | 2333 2222 |           |
| 16   | 2110 1111 | 2120 2233 | 1110 0112 | 2120 2233 | 3121 2110 | 2120 0111 | 1010 0000 | 3121 2111 |           |
| 17   | 3244 2212 | 3333 1333 | 3322 0221 | 3344 2333 | 0101 1100 | 0000 1110 | 0000 0010 | 0101 1110 |           |
| 18   | 1221 2200 | 1211 1221 | 0221 1110 | 1221 2221 | 0114 3220 | 0011 3232 | 0002 1111 | 0114 3232 |           |
| 19   | 0232 2200 | 1121 1221 | 0011 0101 | 1232 2221 | 3414 4322 | 3313 3243 | 2414 4121 | 3414 4343 |           |
| 20   | 1232 1012 | 1121 0122 | 0021 0112 | 1232 1122 | 3131 2101 | 3120 1222 | 1022 0000 | 3132 2222 |           |
| 21   | 4333 3332 | 3312 2343 | 4312 1120 | 4333 3343 | 2210 1120 | 2200 0122 | 0000 0011 | 2210 1122 |           |
| 22   | 5210 2110 | 4200 1222 | 3100 1010 | 5210 2222 | 0000 2201 | 1000 1223 | 0000 0101 | 1000 2223 |           |
| 23   | 1203 2211 | 1222 2322 | 0112 1201 | 1223 2322 | 3234 3334 | 3222 3344 | 2123 2123 | 3234 3344 |           |
| 24   | 2201 2100 | 3211 2111 | 1200 0010 | 3211 2111 | 5013 4311 | 3122 3233 | 3001 2122 | 5123 4333 |           |
| 25   | 1201 2010 | 1000 1122 | 0000 1221 | 1201 2222 | 3113 2202 | 2112 2232 | 1002 1112 | 3113 2232 |           |
| 26   | 2222 1000 | 2111 2122 | 1001 0021 | 2222 2122 | 3420 2111 | 2221 0122 | 0220 0011 | 3421 2122 |           |
| 27   | 1234 4300 | 1132 4322 | 0022 1211 | 1234 4322 | 1223 2101 | 1221 1211 | 0201 1200 | 1223 2211 |           |
| 28   | 3343 2111 | 3331 2222 | 0241 1000 | 3343 2222 | 0002 2100 | 1011 2322 | 0000 0100 | 1012 2322 |           |
| 29   | 3102 1120 | 2212 1122 | 2000 1010 | 3212 1122 | 0001 4202 | 0000 3235 | 0000 2024 | 0001 4235 |           |
| 30   | 0342 2111 | 1330 0222 | 0322 0111 | 1342 2222 | 7634 5566 | 5623 4477 | 7632 2377 | 7634 5577 |           |
| 31   | 1132 2221 | 2011 1222 | 0021 1101 | 2132 2222 | 5322 3321 | 5321 4333 | 6310 3101 | 6322 4333 |           |

## THREE-HOUR RANGE INDICES, AGINCOURT, 1966

| September |      |      |      |      |      | October  |      |      |      |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|----------|------|------|------|------|------|------|------|------|------|------|
|           | D    | H    | Z    | K    |      | D        | H    | Z    | K    |      |      |      |      |      |      |      |
| 1         | 2444 | 2334 | 2224 | 2333 | 0324 | 2234     | 2444 | 2334 | 3221 | 2100 | 2111 | 0111 | 2100 | 0000 | 3221 | 2110 |
| 2         | 3111 | 3432 | 2211 | 2444 | 2100 | 1232     | 3211 | 3444 | 0121 | 1000 | 0120 | 0010 | 0010 | 0100 | 0121 | 1010 |
| 3         | 2236 | 6357 | 3346 | 5579 | 1135 | 3568     | 3346 | 6579 | 0121 | 1000 | 0110 | 0011 | 0110 | 0000 | 0121 | 1011 |
| 4         | 9975 | 3322 | 9987 | 5333 | 9985 | 4122     | 9987 | 5333 | 1323 | 3244 | 1213 | 2345 | 0321 | 1246 | 1323 | 3346 |
| 5         | 1102 | 3301 | 2213 | 4333 | 1212 | 2222     | 2213 | 4333 | 4545 | 3323 | 3454 | 2333 | 5545 | 2222 | 5555 | 3333 |
| 6         | 4545 | 3200 | 4545 | 3332 | 2554 | 2211     | 4555 | 3332 | 3534 | 2213 | 2532 | 3222 | 2552 | 2111 | 3554 | 3223 |
| 7         | 3442 | 2321 | 2322 | 2322 | 0331 | 1112     | 3442 | 2322 | 3200 | 1102 | 2210 | 1213 | 2100 | 0011 | 3210 | 1213 |
| 8         | 5555 | 4325 | 3344 | 5334 | 1345 | 3223     | 5555 | 5335 | 1233 | 2000 | 1121 | 0011 | 1122 | 0110 | 1233 | 2011 |
| 9         | 3443 | 2325 | 2343 | 4334 | 1443 | 2222     | 3443 | 4335 | 2322 | 2200 | 1322 | 2212 | 0212 | 1000 | 2322 | 2212 |
| 10        | 4523 | 3303 | 3433 | 2233 | 2423 | 1022     | 4533 | 3333 | 0002 | 0000 | 0000 | 0010 | 0000 | 0000 | 0002 | 0010 |
| 11        | 3331 | 2200 | 3220 | 2211 | 0120 | 0100     | 3331 | 2211 | 0000 | 1000 | 0001 | 0010 | 0000 | 0000 | 0001 | 1010 |
| 12        | 0022 | 1201 | 0011 | 1211 | 0012 | 1100     | 0022 | 1211 | 1121 | 2211 | 1111 | 1133 | 0011 | 0110 | 1121 | 2233 |
| 13        | 1101 | 2200 | 1210 | 1111 | 0000 | 0000     | 1211 | 2211 | 2022 | 2103 | 0011 | 1212 | 0000 | 0100 | 2022 | 2213 |
| 14        | 0101 | 2312 | 1111 | 1333 | 0000 | 0222     | 1111 | 2333 | 1120 | 2000 | 1110 | 1011 | 0010 | 0010 | 1120 | 2011 |
| 15        | 4533 | 3222 | 3323 | 1233 | 3322 | 0122     | 4533 | 3233 | 0213 | 2123 | 1101 | 1343 | 0001 | 0000 | 1213 | 2343 |
| 16        | 3101 | 3221 | 3101 | 1133 | 3000 | 0010     | 3101 | 3233 | 2355 | 5202 | 3354 | 4232 | 2364 | 3211 | 3365 | 5232 |
| 17        | 3331 | 2201 | 2211 | 1111 | 1210 | 0001     | 3331 | 2211 | 0200 | 0100 | 2200 | 1221 | 0100 | 0100 | 2200 | 1221 |
| 18        | 0011 | 1100 | 0000 | 1112 | 0000 | 0000     | 0011 | 1112 | 1000 | 1000 | 2000 | 0012 | 0000 | 0000 | 2000 | 1012 |
| 19        | 2321 | 3224 | 2421 | 2334 | 0320 | 0211     | 2421 | 3334 | 0011 | 0000 | 1110 | 0111 | 0000 | 0000 | 1111 | 0111 |
| 20        | 4334 | 3214 | 3232 | 3333 | 0233 | 1122     | 4334 | 3334 | 0001 | 1000 | 2000 | 0111 | 0000 | 0010 | 2001 | 1111 |
| 21        | 4422 | 2010 | 2201 | 2021 | 1201 | 1010     | 4422 | 2021 | 0001 | 2000 | 0000 | 0110 | 0000 | 0000 | 0001 | 2110 |
| 22        | 3200 | 1101 | 2101 | 0131 | 0100 | 0011     | 3201 | 1131 | 0000 | 0001 | 0000 | 0001 | 0000 | 0000 | 0000 | 0001 |
| 23        | 2233 | 3332 | 1122 | 3343 | 0011 | 2232     | 2233 | 3343 | 1000 | 0100 | 0000 | 0111 | 0000 | 0000 | 1000 | 0111 |
| 24        | 2023 | 3221 | 3123 | 2232 | 1002 | 0010     | 3123 | 3232 | 0002 | 3423 | 1111 | 3333 | 0000 | 1221 | 1112 | 3433 |
| 25        | 3451 | 1101 | 2331 | 1013 | 1230 | 0001     | 3451 | 1113 | 4343 | 3234 | 3233 | 3234 | 1023 | 2022 | 4343 | 3234 |
| 26        | 5224 | 3342 | 4123 | 2323 | 4021 | 0133     | 5224 | 3343 | 4423 | 3411 | 3312 | 2422 | 1211 | 0121 | 4423 | 3422 |
| 27        | 5533 | 3312 | 3333 | 2333 | 2421 | 2212     | 5533 | 3333 | 2101 | 2213 | 1001 | 0222 | 0000 | 0100 | 2101 | 2223 |
| 28        | 3401 | 2302 | 3511 | 2314 | 1411 | 1102     | 3511 | 2314 | 3000 | 0001 | 2000 | 0021 | 0000 | 0000 | 3000 | 0021 |
| 29        | 3442 | 2111 | 2232 | 1232 | 1332 | 0112     | 3442 | 2232 | 2110 | 1110 | 0120 | 0100 | 0000 | 0000 | 2120 | 1110 |
| 30        | 2433 | 2213 | 1332 | 2213 | 0343 | 1102     | 2443 | 2213 | 2201 | 2332 | 1100 | 1324 | 0000 | 0212 | 2201 | 2334 |
| 31        |      |      |      |      |      |          |      |      | 4444 | 4343 | 5543 | 4333 | 2533 | 2233 | 5544 | 4343 |
| November  |      |      |      |      |      | December |      |      |      |      |      |      |      |      |      |      |
|           | D    | H    | Z    | K    |      | D        | H    | Z    | K    |      |      |      |      |      |      |      |
| 1         | 3355 | 5313 | 4343 | 3422 | 3343 | 2211     | 4355 | 5423 | 3432 | 2132 | 3322 | 2022 | 0421 | 0011 | 3432 | 2132 |
| 2         | 4132 | 2123 | 4112 | 2332 | 2010 | 1110     | 4132 | 2333 | 2301 | 1000 | 1201 | 0001 | 0000 | 0000 | 2301 | 1001 |
| 3         | 1434 | 3212 | 2223 | 3322 | 0332 | 2201     | 2434 | 3322 | 0101 | 1000 | 0001 | 0000 | 0000 | 0000 | 0101 | 1000 |
| 4         | 2320 | 1021 | 2220 | 1121 | 0210 | 0021     | 2320 | 1121 | 0443 | 3133 | 1133 | 3232 | 0043 | 1121 | 1443 | 3233 |
| 5         | 1342 | 1000 | 1231 | 1210 | 0222 | 1100     | 1342 | 1210 | 4332 | 2232 | 2232 | 1342 | 0222 | 0121 | 4332 | 2342 |
| 6         | 0213 | 2000 | 0211 | 1010 | 0221 | 1000     | 0223 | 2010 | 3211 | 1000 | 2121 | 1011 | 0000 | 1000 | 3221 | 1011 |
| 7         | 0121 | 1003 | 1011 | 0013 | 0000 | 0011     | 0121 | 1013 | 0100 | 0000 | 0200 | 0011 | 0000 | 0000 | 0200 | 0011 |
| 8         | 3201 | 2010 | 2201 | 0110 | 1100 | 0110     | 3201 | 2110 | 0011 | 0000 | 0000 | 0002 | 0000 | 0000 | 0011 | 0002 |
| 9         | 1100 | 1000 | 0000 | 1010 | 0000 | 0010     | 1100 | 1010 | 1010 | 1020 | 0000 | 0120 | 0000 | 0000 | 1010 | 1120 |
| 10        | 0132 | 3221 | 0232 | 3121 | 0230 | 1000     | 0232 | 3221 | 0021 | 0000 | 0002 | 0011 | 0000 | 0000 | 0022 | 0011 |
| 11        | 1324 | 2000 | 2212 | 1000 | 0201 | 0000     | 2324 | 2000 | 0200 | 0100 | 1100 | 0120 | 0000 | 0000 | 1200 | 0120 |
| 12        | 2212 | 2020 | 2111 | 1121 | 0000 | 0010     | 2212 | 2121 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 13        | 1103 | 3011 | 1113 | 1122 | 0002 | 0010     | 1113 | 3122 | 2342 | 3420 | 2332 | 3422 | 0240 | 2310 | 2342 | 3422 |
| 14        | 0000 | 0000 | 0000 | 0001 | 0000 | 0000     | 0000 | 0001 | 1432 | 5635 | 2431 | 5633 | 0320 | 3533 | 2432 | 5635 |
| 15        | 0002 | 0001 | 1011 | 0001 | 0000 | 0000     | 1012 | 0001 | 4312 | 3312 | 4311 | 2233 | 4201 | 1210 | 4312 | 3333 |
| 16        | 2122 | 1100 | 1112 | 1010 | 0022 | 0000     | 2122 | 1110 | 2322 | 2210 | 1111 | 2221 | 0110 | 1010 | 2322 | 2221 |
| 17        | 4321 | 1210 | 3321 | 0330 | 3220 | 0120     | 4321 | 1330 | 2301 | 1102 | 2100 | 2112 | 0000 | 0100 | 2301 | 2112 |
| 18        | 0001 | 2322 | 0001 | 2333 | 0000 | 1112     | 0001 | 2333 | 1232 | 1000 | 1221 | 0111 | 0000 | 0000 | 1232 | 1111 |
| 19        | 2332 | 2121 | 2222 | 1122 | 1132 | 1011     | 2332 | 2122 | 1100 | 0000 | 1000 | 0001 | 0000 | 0000 | 1100 | 0001 |
| 20        | 3121 | 1112 | 2121 | 1122 | 1000 | 0100     | 3121 | 1122 | 0010 | 2212 | 0000 | 1222 | 0000 | 0010 | 0010 | 2222 |
| 21        | 0331 | 1102 | 0311 | 1011 | 0220 | 0000     | 0331 | 1112 | 3323 | 1112 | 2211 | 1221 | 0320 | 0010 | 3323 | 1222 |
| 22        | 0101 | 0000 | 0100 | 0000 | 0000 | 0000     | 0101 | 0000 | 1222 | 3313 | 1221 | 3322 | 0100 | 1101 | 1222 | 3323 |
| 23        | 0000 | 0000 | 1000 | 0011 | 0000 | 0000     | 1000 | 0011 | 2100 | 1212 | 2111 | 1232 | 2000 | 0011 | 2111 | 1232 |
| 24        | 1232 | 2000 | 1310 | 1010 | 0120 | 0000     | 1332 | 2010 | 3353 | 2100 | 2333 | 1110 | 0043 | 0000 | 3353 | 2110 |
| 25        | 2011 | 2110 | 1000 | 1111 | 0000 | 0000     | 2011 | 2111 | 3243 | 2122 | 2123 | 2233 | 0022 | 1010 | 3243 | 2233 |
| 26        | 3222 | 3200 | 2321 | 2100 | 2110 | 1100     | 3322 | 3200 | 3134 | 4434 | 3133 | 3434 | 2233 | 2222 | 3134 | 4434 |
| 27        | 0001 | 1020 | 0211 | 1221 | 0000 | 0000     | 0211 | 1221 | 4543 | 3334 | 3234 | 4333 | 3542 | 2212 | 4543 | 4334 |
| 28        | 2223 | 2332 | 0112 | 2343 | 0010 | 1232     | 2223 | 2343 | 4233 | 3223 | 3222 | 4222 | 2022 | 2110 | 4233 | 4223 |
| 29        | 4433 | 2210 | 4332 | 1121 | 3322 | 0100     | 4433 | 2221 | 3223 | 2210 | 3122 | 1111 | 1000 | 0000 | 3223 | 2211 |
| 30        | 2253 | 3323 | 1243 | 3433 | 0153 | 2212     | 2253 | 3433 | 2311 | 2100 | 1201 | 1300 | 0100 | 0100 | 2311 | 2300 |
| 31        |      |      |      |      |      |          |      |      | 0021 | 2000 | 0001 | 0200 | 0000 | 0000 | 0021 | 2200 |